

SVIM-PGM.DOC

```
000000*-----
000100          THE FOLLOWING SOURCE COBOL PROGRAMS WERE THE MOST
000200          BASIC PROGRAMS USED IN THE ROUTINE PROCESSING
000300          OF THE SOIL VEGETATION INVENTORY METHOD (SVIM).
000400          FILES/PROGRAMS PREFIXED BY ES (ECOLOGICAL SITE) IS
000500          SYNONYMOUS WITH THE SV (SVIM) SYSTEM CODE.
000600
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES005M.
000300*          CONVERTS THE "V1D" FORMATS TO THE NEW "V1A" FORMATS.
000400*
000500 AUTHOR. RON BAKER.
000500 DATE-WRITTEN.    01/22/80.
000600 DATE-COMPILED.
000700 ENVIRONMENT DIVISION.
000800 CONFIGURATION SECTION.
000900 SOURCE-COMPUTER.  LEVEL-66-ASCII.
001000 OBJECT-COMPUTER. LEVEL-66-ASCII.
001100 INPUT-OUTPUT SECTION.
001200 FILE-CONTROL.
001300 SELECT FIL-D1 ASSIGN TO D1
001400          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001500 SELECT FIL-I1 ASSIGN TO I1
001600          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001700 SELECT FIL-P1 ASSIGN TO P1
001800          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001900 SELECT FIL-W1 ASSIGN TO W1
002000          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002100 DATA DIVISION.
002200 FILE SECTION.
002300 FD  FIL-D1
002400          CODE-SET IS GBCD
002500          LABEL RECORDS ARE STANDARD
002600          DATA RECORD IS REC-D1.
002700 01  REC-D1  PIC X(156).
002800 FD  FIL-I1
002900          CODE-SET IS GBCD
003000          LABEL RECORDS ARE STANDARD
003100          DATA RECORD IS REC-I1.
003200 01  REC-I1.
003300          03  RECD-I1.
003400              05  REC-TYP-I1          PIC XX.
003500              05  FMT-NUM-I1          PIC 9.
003600              05  FMT-CD-I1           PIC X.
003700          03  SD-I1.
003800              05  ST-I1                PIC XX.
003900              05  DS-I1                PIC XX.
004000          03  RP-I1.
004100              05  RA-I1.
004200                  07  RA-1-I1          PIC X.
004300                  07  RA-2-I1          PIC X.
004400              05  PLU-I1               PIC XX.
004500          03  ALOT-I1                  PIC XXXX.
004600          03  PAST-I1                  PIC XX.
004700          03  SWAT-I1.
```

```

004800      05 SWA-I1.
004900          07 SWA-1-I1 PIC X.
005000          07 SWA-2-I1 PIC XXX.
005100      05 TRN-I1 PIC XX.
005200 03 DATA-V-I1 PIC X(216).
005300 03 DATA-V11-I1 REDEFINES DATA-V-I1.
005400      05 COMP-AREA-V11-I1 PIC X.
005500      05 DATE-V11-I1 PIC XXXXXX.
005600      05 ACT-V11-I1 PIC X.
005700      05 AER-V11-I1 PIC X(16).
005800      05 INT-V11-I1 PIC XXX.
005900      05 OCC-V11-I1 OCCURS 7 TIMES.
006000          07 HITS-V11-I1 PIC XXX.
006100          07 PLANTS-V11-I1 PIC X(21).
006200          07 RTNG-V11-I1 PIC XX.
006300      05 FILLER PIC X(7).
006400 03 DATA-V12-I1 REDEFINES DATA-V-I1.
006500      05 FILLER PIC X(8).
006600      05 LINE-V12-I1 PIC XXXX.
006700      05 OCCS-V12-I1 OCCURS 4 TIMES.
006800          07 CAN-V12-I1 PIC X(39).
006900      05 FILLER PIC X(48).
007000 03 DATA-V13-I1 REDEFINES DATA-V-I1.
007100      05 FILLER PIC X(8).
007200      05 LINE-V13-I1 PIC XXXX.
007300      05 OCC-V13-I1 OCCURS 9 TIMES.
007400          07 PLANT-V13-I1 PIC X(21).
007500      05 FILLER PIC X(15).
007600 03 DATA-V21-I1 REDEFINES DATA-V-I1.
007700      05 DATE-V21-I1 PIC X(6).
007800      05 ACT-V21-I1 PIC X.
007900      05 TREE-PLOT-SZ-V21-I1 PIC X.
008000      05 GRASS-PLOT-SZ-V21-I1 PIC XXXXX.
008100      05 LINE-V21-I1 PIC XXXX.
008200      05 LINE-V21-I1-RD REDEFINES LINE-V21-I1 PIC 9999.
008300      05 OCC-V21-I1 OCCURS 4 TIMES.
008400          07 PLOT-NO-V21-I1.
008500              09 PN-V21-P1-I1 PIC X.
008600              09 PN-V21-P2-I1 PIC X.
008700          07 PLOT-NO-V21-I1-RD REDEFINES PLOT-NO-V21-I1
008800              PIC 99.
008900          07 PLANT-V21-I1 PIC X(7).
009000          07 AVAIL-V21-I1 PIC X.
009100          07 PHNO-V21-I1 PIC X.
009200          07 UTIL-V21-I1 PIC X.
009300          07 HGT-CLS-GRP-V21-I1.
009400              09 HGT-CLS-V21-I1 PIC XXXX OCCURS 4 TIMES.
009500          07 HCAF-V21-I1.
009600              09 HGT-V21-I1 PIC XXXX.
009700              09 HGT-V21-I1-RD REDEFINES
009800                  HGT-V21-I1 PIC 999V9.
009900              09 CRWN-V21-I1 PIC XXXX.
010000              09 CRWN-V21-I1-RD REDEFINES
010100                  CRWN-V21-I1 PIC 999V9.
010200              09 AGE-V21-I1 PIC X.
010300              09 FORM-V21-I1 PIC X.
010400          07 CHRZ-V21-I1 PIC XXX.

```

010500                   07 NOT-CHRZ-V21-I1   PIC XXX.  
010600                   05 FILLER           PIC X(23).  
010700 FD   FIL-P1  
010800                   CODE-SET IS GBCD  
010900                   LABEL RECORDS ARE STANDARD  
011000                   DATA RECORD IS REC-P1.  
011100 01   REC-P1        PIC X(132).  
011200 SD   FIL-W1  
011300                   DATA RECORD IS REC-W1.  
011400 01   REC-W1.  
011500                   03 SD-W1        PIC XXXX.  
011600                   03 RA-W1        PIC XX.  
011700                   03 PAPSR-W1.  
011800                   05 PLU-W1        PIC XX.  
011900                   05 ALOT-W1       PIC XXXX.  
012000                   05 PAST-W1       PIC XX.  
012100                   05 SWAT-W1       PIC X(6).  
012200                   05 REC-TYP-W1   PIC XX.  
012300                   05 FMT-NUM-W1   PIC X.  
012400                   05 FMT-CD-W1   PIC X.  
012500                   03 GRP-2-W1.  
012600                   05 PLANT-W1       PIC X(7).  
012700                   05 HGT-W1        PIC X.  
012800                   05 HGT-W1-RD REDEFINES HGT-W1        PIC 9.  
012900                   03 PLOT-W1        PIC XX.  
013000                   03 PLOT-W1-RD REDEFINES PLOT-W1   PIC 99.  
013100                   03 OCC-W1        PIC 999.  
013200                   03 LINE-W1       PIC XXX.  
013300                   03 ACT-W1        PIC X.  
013400                   03 DATA-W1   PIC X(240).  
013500                   03 FILLER        PIC XXXXX.  
013600 WORKING-STORAGE SECTION.  
013700 77   REC-CNT   PIC 9(6) VALUE ZEROS.  
013800 77   REC-TYP-W1-HLD   PIC XX VALUE SPACE.  
013900 77   WR-SW        PIC 9 VALUE ZERO.  
014000 77   END-SW        PIC 9 VALUE ZERO.  
014100 77   PLOT-TOT-HLD   PIC 99 VALUE ZERO.  
014200 77   PLOT-NO-HLD   PIC 99 VALUE ZERO.  
014300 77   LINE-V21-HLD   PIC 9999 VALUE ZERO.  
014400 77   C99I        PIC 9(6) VALUE ZERO.  
014500 77   C11I        PIC 9(6) VALUE ZERO.  
014600 77   C12I        PIC 9(6) VALUE ZERO.  
014700 77   C13I        PIC 9(6) VALUE ZERO.  
014800 77   C21I        PIC 9(6) VALUE ZERO.  
014900 77   C110        PIC 9(6) VALUE ZERO.  
015000 77   C120        PIC 9(6) VALUE ZERO.  
015100 77   C130        PIC 9(6) VALUE ZERO.  
015200 77   C140        PIC 9(6) VALUE ZERO.  
015300 77   C210        PIC 9(6) VALUE ZERO.  
015400 77   C310        PIC 9(6) VALUE ZERO.  
015500 77   C990        PIC 9(6) VALUE ZERO.  
015600 77   SS         PIC 9(6) VALUE ZERO.  
015700 77   LINE-CNT   PIC 9(3) VALUE ZEROS.  
015800 77   GRP-1-V31-HLD   PIC X(20) VALUE SPACE.  
015900 77   GRP-2-V31-HLD   PIC X(8) VALUE SPACE.  
016000 77   WGT-HLD        PIC XXXX VALUE SPACE.  
016100 77   PLOT-HLD        PIC XX VALUE SPACE.

```

016200 77 PAPSR-HLD          PIC X(18)  VALUE SPACE.
016300 77 SUB  PIC 9(3) VALUE ZEROS.
016400 77 CON-8  VALUE 008  PIC 999.
016500 77 SUB1  PIC 9(6) VALUE ZEROS.
016600 77 SUB9  PIC 9  VALUE ZEROS.
016700 77 PREV-CNTL  PIC X(20)  VALUE SPACE.
016800 01 PLOT-NUM-HOLD.
016900      03 PNH  PIC XX.
017000      03 PNH-RD REDEFINES PNH  PIC 99.
017100 01 PLOT-TABLE.
017200      03 PLOT-TAB  PIC 9  OCCURS 40 TIMES.
017300 01 REC-W1-HLD  PIC X(286)  VALUE SPACE.
017400 01 V-HLD.
017500      03 V-CNTL.
017600          05 BATCH-HLD          PIC XXXX.
017700          05 REC-TYP-HLD          PIC XX.
017800          05 FMT-NUM-HLD          PIC X.
017900          05 FMT-CD-HLD          PIC X.
018000          05 SD-HLD          PIC XXXX.
018100          05 PLU-HLD          PIC XX.
018200          05 ALOT-HLD          PIC XXXX.
018300          05 SWAT-HLD          PIC X(6).
018400      03 DATA-HLD  PIC X(128).
018500      03 RA-HLD  PIC XX.
018600      03 PAST-HLD  PIC XX.
018700 01 V11.
018800      03 V11-CNTL.
018900          05 BATCH-V11          PIC XXXX.
019000          05 REC-TYP-V11          PIC XX.
019100          05 FMT-NUM-V11          PIC X.
019200          05 FMT-CD-V11          PIC X.
019300          05 SD-V11          PIC XXXX.
019400          05 PLU-V11          PIC XX.
019500          05 ALOT-V11          PIC XXXX.
019600          05 SWAT-V11          PIC X(6).
019700      03 DATA-V11.
019800          05 ACT-V11  PIC X.
019900          05 LINE-V11  PIC XXX.
020000          05 EDIT-FLG-V11  PIC X.
020100          05 SWAT-BRWD-V11  PIC X(6).
020200          05 FILLER          PIC X(28).
020300          05 DATE-V11  PIC X(6).
020400          05 INT-V11  PIC XXX.
020500          05 AER-V11  PIC X(16).
020600          05 CMPR-SD-V11  PIC XXXX.
020700          05 CMPR-FILLER  PIC X(12).
020800          05 FILLER  PIC X(48).
020900          05 RA-V11  PIC XX.
021000          05 PAST-V11  PIC XX.
021100 01 V12.
021200      03 V12-CNTL.
021300          05 BATCH-V12          PIC XXXX.
021400          05 REC-TYP-V12          PIC XX.
021500          05 FMT-NUM-V12          PIC X.
021600          05 FMT-CD-V12          PIC X.
021700          05 SD-V12          PIC XXXX.
021800          05 PLU-V12          PIC XX.

```

021900 05 ALOT-V12 PIC XXXX.  
022000 05 SWAT-V12 PIC X(6).  
022100 03 DATA-V12.  
022200 05 ACT-V12 PIC X.  
022300 05 LINE-V12 PIC 999.  
022400 05 FILLER PIC X(16).  
022500 05 THP-V12.  
022600 07 TYP-GC-V12 PIC X.  
022700 07 HITS-GC-V12 PIC XXX.  
022800 07 PLANT-V12 PIC X(21).  
022900 05 FILLER PIC X(7).  
023000 05 FILLER PIC X(76).  
023100 05 RA-V12 PIC XX.  
023200 05 PAST-V12 PIC XX.  
023300 01 V13.  
023400 03 V13-CNTL.  
023500 05 BATCH-V13 PIC XXXX.  
023600 05 REC-TYP-V13 PIC XX.  
023700 05 FMT-NUM-V13 PIC X.  
023800 05 FMT-CD-V13 PIC X.  
023900 05 SD-V13 PIC XXXX.  
024000 05 PLU-V13 PIC XX.  
024100 05 ALOT-V13 PIC XXXX.  
024200 05 SWAT-V13 PIC X(6).  
024300 03 DATA-V13.  
024400 05 ACT-V13 PIC X.  
024500 05 LINE-V13 PIC XXX.  
024600 05 FILLER PIC X(16).  
024700 05 PLANT-OCC-V13.  
024800 07 CAN-V13 PIC X(39) OCCURS 2 TIMES.  
024900 05 FILLER PIC X(30).  
025000 05 RA-V13 PIC XX.  
025100 05 PAST-V13 PIC XX.  
025200 01 V14.  
025300 03 V14-CNTL.  
025400 05 BATCH-V14 PIC XXXX.  
025500 05 REC-TYP-V14 PIC XX.  
025600 05 FMT-NUM-V14 PIC X.  
025700 05 FMT-CD-V14 PIC X.  
025800 05 SD-V14 PIC XXXX.  
025900 05 PLU-V14 PIC XX.  
026000 05 ALOT-V14 PIC XXXX.  
026100 05 SWAT-V14 PIC X(6).  
026200 03 DATA-V14.  
026300 05 ACT-V14 PIC X.  
026400 05 LINE-V14 PIC 999.  
026500 05 FILLER PIC X(16).  
026600 05 SSF-V14 OCCURS 7 TIMES PIC XX.  
026700 05 FILLER PIC X(94).  
026800 05 RA-V14 PIC XX.  
026900 05 PAST-V14 PIC XX.  
027000 01 V21.  
027100 03 V21-CNTL.  
027200 05 BATCH-V21 PIC XXXX.  
027300 05 REC-TYP-V21 PIC XX.  
027400 05 FMT-NUM-V21 PIC X.  
027500 05 FMT-CD-V21 PIC X.

027600		05	SD-V21	PIC XXXX.
027700		05	PLU-V21	PIC XX.
027800		05	ALOT-V21	PIC XXXX.
027900		05	SWAT-V21	PIC X(6).
028000	03		DATA-V21.	
028100		05	ACT-V21	PIC X.
028200		05	LINE-V21	PIC 999.
028300		05	FILLER	PIC X(16).
028400		05	PLOT-SZ-V21	PIC X.
028500		05	PLOT-NUM-V21	PIC XX.
028600		05	PLANT-V21.	
028700		07	P1P-V21	PIC X.
028800		07	P2P-V21	PIC X.
028900		07	P3P-V21	PIC X.
029000		07	P4P-V21	PIC X.
029100		07	P5P-V21	PIC X.
029200		07	P6P-V21	PIC X.
029300		07	P7P-V21	PIC X.
029400		05	AGE-V21	PIC X.
029500		05	FORM-V21	PIC X.
029600		05	PHNO-V21	PIC X.
029700		05	AVAIL-V21	PIC X.
029800		05	UTIL-V21	PIC X.
029900		05	HGT-V21	PIC X(5).
030000		05	HGT-V21-RD REDEFINES HGT-V21	PIC 999V99.
030100		05	CHRZ-V21	PIC XXX.
030200		05	FILLER	PIC XXXXX.
030300		05	CRWN-V21.	
030400		07	CRWN-V21-3P	PIC XXX.
030500		07	CRWN-V21-1P1	PIC X.
030600		07	CRWN-V21-1P2	PIC X.
030700		05	CRWN-V21-RD REDEFINES CRWN-V21	PIC 999V99.
030800		05	NOT-CHRZ-V21	PIC XXX.
030900		05	FILLER	PIC X(72).
031000		05	RA-V21	PIC XX.
031100		05	PAST-V21	PIC XX.
031200	01		V31.	
031300	03		V31-CNTL.	
031400		05	BATCH-V31	PIC XXXX.
031500		05	GRP-1-V31.	
031600		07	REC-TYP-V31	PIC XX.
031700		07	FMT-NUM-V31	PIC X.
031800		07	FMT-CD-V31	PIC X.
031900		07	SD-V31	PIC XXXX.
032000		07	PLU-V31	PIC XX.
032100		07	ALOT-V31	PIC XXXX.
032200		07	SWAT-V31	PIC X(6).
032300	03		DATA-V31.	
032400		05	ACT-V31	PIC X.
032500		05	LINE-V31	PIC XXX.
032600		05	FILLER	PIC X(16).
032700		05	PLOT-TOT-V31	PIC XX.
032800		05	PLOT-SZ-2P-V31	PIC X(2).
032900		05	PLOT-SZ-5P-V31.	
033000		07	PSZ-3P	PIC XXX.
033100		07	PSZ-2P	PIC XX.
033200		05	GRP-2-V31.	

```

033300          07 PLANT-V31.
033400          09 P1P-V31 PIC X.
033500          09 P2P-V31 PIC X.
033600          09 P3P-V31 PIC X.
033700          09 P4P-V31 PIC X.
033800          09 P5P-V31 PIC X.
033900          09 P6P-V31 PIC X.
034000          09 P7P-V31 PIC X.
034100          07 HGT-V31          PIC X.
034200      05 PLOT-DATA OCCURS 10 TIMES.
034300          07 PLOT-V31 PIC XX.
034400          07 AVAIL-V31 PIC X.
034500          07 PHNO-V31 PIC X.
034600          07 UTIL-V31 PIC X.
034700          07 WGT-V31 PIC XXXX.
034800      05 FILLER          PIC X.
034900      05 RA-V31          PIC XX.
035000      05 PAST-V31       PIC XX.
035100 01 GROUND-CVR-TAB.
035200      03 TGC-TAB PIC X(7) VALUE "BPNGCSR".
035300      03 TGC REDEFINES TGC-TAB PIC X OCCURS 7 TIMES.
035400 PROCEDURE DIVISION.
035500 SORT-STATEMENT SECTION.
035600 SORT-STATEMENT-PARA.
035700      SORT FIL-W1 ON ASCENDING KEY SD-W1,
035800          PLU-W1, ALOT-W1, PAST-W1, SWAT-W1,
035900          PLANT-W1, HGT-W1, PLOT-W1,
036000          REC-TYP-W1, FMT-CD-W1, FMT-NUM-W1,
036100          LINE-W1, ACT-W1
036200      INPUT PROCEDURE IS INPUT-PROC,
036300      OUTPUT PROCEDURE IS OUTPUT-PROC.
036400 STOP-RUN.
036500      DISPLAY "V11I " C11I.
036600      DISPLAY "V12I " C12I.
036700      DISPLAY "V13I " C13I.
036800      DISPLAY "V21I " C21I.
036900      DISPLAY "V110 " C110.
037000      DISPLAY "V120 " C120.
037100      DISPLAY "V130 " C130.
037200      DISPLAY "V140 " C140.
037300      DISPLAY "V210 " C210.
037400      DISPLAY "V310 " C310.
037500      DISPLAY "V990 " C990.
037600      CLOSE FIL-D1, FIL-P1. STOP RUN.
037700 INPUT-PROC SECTION.
037800 010-HOUSEKEEPING.
037900      OPEN INPUT FIL-I1.
038000          INITIALIZE PLOT-TABLE.
038100 010A-READ.
038200      MOVE SPACE TO REC-W1.
038300      READ FIL-I1 AT END GO TO 099-CLOSE.
038400      IF SWA-1-I1 = "0" MOVE "0" TO SWA-1-I1.
038500      IF SWA-I1 = SPACE
038600          MOVE "Z999" TO SWA-I1.
038700      IF ST-I1 = "OT" MOVE "UT" TO ST-I1.
038800*      MOVE "8" TO RA-2-I1.
038900*      IF SD-I1 = "UT08" OR "UT07" OR "UT02"

```

```

039000     IF ST-I1 = "UT"
039100         MOVE "UT08" TO SD-I1
039200         MOVE "5807" TO RP-I1.
039300     ADD 1 TO C99I.
039400*    DISPLAY REC-I1.
039500     MOVE REC-I1 TO DATA-W1.
039600*    IF REC-CNT > 200 GO TO 099-CLOSE.
039700     MOVE REC-TYP-I1 TO REC-TYP-W1.
039800     MOVE FMT-NUM-I1 TO FMT-NUM-W1.
039900     MOVE FMT-CD-I1 TO FMT-CD-W1.
040000     MOVE SD-I1 TO SD-W1.
040100     MOVE RA-I1 TO RA-W1.
040200     MOVE PLU-I1 TO PLU-W1.
040300     MOVE ALOT-I1 TO ALOT-W1.
040400     MOVE PAST-I1 TO PAST-W1.
040500     MOVE SWAT-I1 TO SWAT-W1.
040600     IF RECD-I1 = "V11D" OR "V12D" OR "V13D" OR "V21D"
040700         NEXT SENTENCE ELSE
040800             DISPLAY "BAD " REC-I1
040900             DISPLAY "COUNT= " C99I
041000             GO TO 010A-READ.
041100     IF RECD-I1 = "V11D"
041200         ADD 1 TO C11I
041300         MOVE SPACES TO LINE-W1.
041400     IF RECD-I1 = "V12D"
041500         ADD 1 TO C12I
041600         MOVE LINE-V12-I1 TO LINE-W1.
041700     IF RECD-I1 = "V21D"
041800         ADD 1 TO C21I
041900         MOVE LINE-V21-I1 TO LINE-W1
042000         MOVE REC-W1 TO REC-W1-HLD.
042100     IF RECD-I1 = "V11D" OR "V12D" OR "V13D" OR "V21D"
042200         NEXT SENTENCE ELSE
042300             DISPLAY "BAD " REC-I1
042400             DISPLAY "COUNT= " C99I
042500             GO TO 010A-READ.
042600     IF RECD-I1 = "V13D"
042700         ADD 1 TO C13I
042800         MOVE LINE-V13-I1 TO LINE-W1.
042900     RELEASE REC-W1.
043000     IF RECD-I1 NOT = "V21D"
043100         GO TO 010A-READ.
043200     MOVE ZERO TO SUB, SUB9.
043300 090-LOOP.
043400     ADD 1 TO SUB.
043500     IF SUB = 5 GO TO 010A-READ.
043600     IF ((PN-V21-P2-I1 (SUB) = SPACE) AND
043700         (PN-V21-P1-I1 (SUB) NOT = SPACE))
043800         MOVE PN-V21-P1-I1 (SUB) TO PN-V21-P2-I1 (SUB)
043900         MOVE ZERO TO PN-V21-P1-I1 (SUB).
044000     MOVE PLOT-NO-V21-I1 (SUB) TO PNH.
044100     IF (PNH = "00" OR "99") OR
044200         ((PNH-RD > 40) AND (PNH-RD < 99))
044300         DISPLAY "INV " REC-I1
044400         DISPLAY "COUNT= " C99I
044500         GO TO 090-LOOP.
044600     IF (PNH NOT NUMERIC)

```



```

044700         AND (PLANT-V21-I1 (SUB) NOT = SPACE)
044800         DISPLAY "BAD " REC-I1
044900         DISPLAY "COUNT= " C99I
045000         GO TO 090-LOOP.
045100         IF (PNH NOT NUMERIC)
045200         GO TO 090-LOOP.
045300         IF HGT-CLS-GRP-V21-I1 (SUB) = SPACE
045400         GO TO 090-LOOP.
045500 095-LOOP.
045600         ADD 1 TO SUB9.
045700         IF SUB9 = 5
045800             MOVE ZERO TO SUB9
045900             GO TO 090-LOOP.
046000         IF HGT-CLS-V21-I1 (SUB, SUB9) = SPACE
046100             GO TO 095-LOOP.
046200         MOVE REC-W1-HLD TO REC-W1.
046300         MOVE PLANT-V21-I1 (SUB) TO PLANT-W1.
046400         MOVE SUB9 TO HGT-W1.
046500         MOVE PLOT-NO-V21-I1 (SUB) TO PLOT-W1.
046600         MOVE SPACE TO LINE-W1.
046700         MOVE "V3" TO REC-TYP-W1.
046800         IF PLOT-W1-RD < 11 MOVE "1" TO FMT-NUM-W1
046900             ELSE IF PLOT-W1-RD < 21 MOVE "2" TO FMT-NUM-W1
047000             ELSE IF PLOT-W1-RD < 31 MOVE "3" TO FMT-NUM-W1
047100             ELSE IF PLOT-W1-RD < 41 MOVE "4" TO FMT-NUM-W1.
047200         MOVE SUB TO OCC-W1.
047300         RELEASE REC-W1.
047400         GO TO 095-LOOP.
047500 099-CLOSE.
047600         CLOSE FIL-I1.
047700 099-EXIT.
047800         EXIT.
047900 OUTPUT-PROC SECTION.
048000 100-OPEN.
048100         DISPLAY "OUTPUT PROC".
048200         OPEN OUTPUT FIL-D1, FIL-P1.
048300 100-RET.
048400         RETURN FIL-W1 AT END GO TO 999-END.
048500 105-CK-REC.
048600         IF END-SW = 1
048700             GO TO 999-END.
048800*         DISPLAY "SR= " REC-W1.
048900*         DISPLAY "GOD " DATA-W1.
049000         ADD 1 TO REC-CNT.
049100*         IF REC-CNT > 200 GO TO 999-END.
049200         IF (REC-TYP-W1 NOT = REC-TYP-W1-HLD) AND
049300             (REC-TYP-W1-HLD = "V2")
049400             MOVE 008 TO CON-8
049500             PERFORM 115-PLOT-TAB THRU 115-EXIT.
049600         MOVE DATA-W1 TO REC-I1.
049700         MOVE REC-TYP-W1 TO REC-TYP-W1-HLD.
049800         IF PLANT-W1 NOT = SPACE GO TO 600-V31.
049900         IF END-SW = 1 GO TO 999-END.
050000         IF RECD-I1 = "V11D" GO TO 200-V11.
050100         IF RECD-I1 = "V12D" GO TO 300-V12.
050200         IF RECD-I1 = "V13D" GO TO 400-V13.
050300         IF RECD-I1 = "V21D" GO TO 500-V21.

```

```

050400      GO TO 100-RET.
050500 110-LOAD.
050600      MOVE ZEROES TO BATCH-HLD.
050700      MOVE "A" TO FMT-CD-HLD.
050800      MOVE SD-I1 TO SD-HLD.
050900      MOVE PLU-I1 TO PLU-HLD.
051000      MOVE RA-I1 TO RA-HLD.
051100      MOVE ALOT-I1 TO ALOT-HLD.
051200      MOVE PAST-I1 TO PAST-HLD.
051300      MOVE SWAT-I1 TO SWAT-HLD.
051400 110-EXIT.
051500      EXIT.
051600 115-PLOT-TAB.
051700      MOVE ZERO TO SUB, PLOT-TOT-HLD.
051800 115-LOOP.
051900      ADD 1 TO SUB.
052000      IF SUB = 41
052100          INITIALIZE PLOT-TABLE
052200          GO TO 115-EXIT.
052300      ADD PLOT-TAB (SUB) TO PLOT-TOT-HLD.
052400      GO TO 115-LOOP.
052500 115-EXIT.
052600      EXIT.
052700 200-V11.
052800      MOVE SPACE TO V-HLD.
052900      PERFORM 110-LOAD.
053000      MOVE SPACE TO V11, V12, V14.
053100      MOVE V-CNTL TO V11-CNTL V12-CNTL V14-CNTL.
053200      MOVE ACT-V11-I1 TO ACT-V11 ACT-V12 ACT-V14.
053300      MOVE "V1" TO REC-TYP-V11.
053400      MOVE "1" TO FMT-NUM-V11.
053500      MOVE "000" TO LINE-V11.
053600      MOVE RA-HLD TO RA-V11.
053700      MOVE PAST-I1 TO PAST-V11.
053800      MOVE AER-V11-I1 TO AER-V11.
053900      MOVE INT-V11-I1 TO INT-V11.
054000      IF COMP-AREA-V11-I1 = "C"
054100          MOVE SD-I1 TO CMPR-SD-V11.
054200      MOVE ACT-V11-I1 TO ACT-V11.
054300      MOVE DATE-V11-I1 TO DATE-V11.
054400*      WRITE REC-P1 FROM V11.
054500      WRITE REC-D1 FROM V11.
054600          ADD 1 TO C110.
054700          ADD 1 TO C990.
054800      MOVE ZERO TO SUB.
054900 210-LOOP.
055000      ADD 1 TO SUB.
055100      IF SUB = 8 GO TO 250-V14.
055200      IF HITS-V11-I1 (SUB) > ZERO
055300          MOVE TGC (SUB) TO TYP-GC-V12.
055400      MOVE SUB TO LINE-V12.
055500      MOVE HITS-V11-I1 (SUB) TO HITS-GC-V12.
055600      MOVE PLANTS-V11-I1 (SUB) TO PLANT-V12.
055700      IF RTNG-V11-I1 (SUB) = SPACE
055800          MOVE "99" TO SSF-V14 (SUB)
055900          ELSE MOVE RTNG-V11-I1 (SUB) TO SSF-V14 (SUB).
056000      IF (PLANT-V12 = SPACE) AND

```

```

056100         (TYP-GC-V12 = SPACE)
056200         GO TO 210-LOOP.
056300         MOVE "V1" TO REC-TYP-V12.
056400         MOVE "2" TO FMT-NUM-V12.
056500         MOVE RA-I1 TO RA-V12.
056600         MOVE PAST-I1 TO PAST-V12.
056700*        WRITE REC-P1 FROM V12.
056800         WRITE REC-D1 FROM V12.
056900         ADD 1 TO C120.
057000         ADD 1 TO C990.
057100         MOVE SPACE TO THP-V12.
057200         GO TO 210-LOOP.
057300 250-V14.
057400         MOVE 001 TO LINE-V14.
057500         MOVE "V1" TO REC-TYP-V14.
057600         MOVE "4" TO FMT-NUM-V14.
057700         MOVE RA-I1 TO RA-V14.
057800         MOVE PAST-I1 TO PAST-V14.
057900*        WRITE REC-P1 FROM V14.
058000         WRITE REC-D1 FROM V14.
058100         ADD 1 TO C140.
058200         ADD 1 TO C990.
058300         GO TO 100-RET.
058400 300-V12.
058500         PERFORM 110-LOAD.
058600         MOVE SPACE TO V13.
058700         MOVE V-CNTL TO V13-CNTL.
058800         MOVE ACT-V11-I1 TO ACT-V13.
058900         MOVE "V1" TO REC-TYP-V13.
059000         MOVE "3" TO FMT-NUM-V13.
059100         MOVE RA-I1 TO RA-V13.
059200         MOVE PAST-I1 TO PAST-V13.
059300         MOVE ZERO TO SUB SUB1.
059400 310-LOOP.
059500         ADD 1 TO SUB.
059600         IF (SUB = 5) AND (SUB1 = 1)
059700*        WRITE REC-P1 FROM V13
059800        WRITE REC-D1 FROM V13.
059900         IF SUB = 5 GO TO 100-RET.
060000         IF CAN-V12-I1 (SUB) NOT = SPACE
060100         ADD 1 TO SUB1
060200         MOVE CAN-V12-I1 (SUB) TO CAN-V13 (SUB1).
060300         IF SUB1 = 2
060400         ADD 1 TO C130
060500         ADD 1 TO C990
060600*        WRITE REC-P1 FROM V13
060700        WRITE REC-D1 FROM V13
060800         MOVE SPACE TO PLANT-OCC-V13
060900         MOVE ZERO TO SUB1.
061000         GO TO 310-LOOP.
061100 400-V13.
061200         PERFORM 110-LOAD.
061300         MOVE SPACE TO V12.
061400         MOVE V-CNTL TO V12-CNTL
061500         MOVE ACT-V11-I1 TO ACT-V12.
061600         MOVE "V1" TO REC-TYP-V12.
061700         MOVE "2" TO FMT-NUM-V12.

```

```

061800     MOVE RA-I1 TO RA-V12.
061900     MOVE PAST-I1 TO PAST-V12.
062000     MOVE ZERO TO SUB.
062100 410-LOOP.
062200     ADD 1 TO SUB.
062300     IF SUB = 10
062400         GO TO 100-RET.
062500     IF PLANT-V13-I1 (SUB) NOT = SPACE
062600         MOVE PLANT-V13-I1 (SUB) TO PLANT-V12
062700         ADD 1 TO C120
062800         ADD 1 TO C990
062900*     WRITE REC-P1 FROM V12
063000         WRITE REC-D1 FROM V12.
063100     GO TO 410-LOOP.
063200 500-V21.
063300     PERFORM 110-LOAD.
063400     MOVE SPACE TO V21.
063500     MOVE V-CNTL TO V21-CNTL.
063600     MOVE "V2" TO REC-TYP-V21.
063700     MOVE "1" TO FMT-NUM-V21.
063800     MOVE ACT-V21-I1 TO ACT-V21.
063900     MOVE RA-I1 TO RA-V21.
064000     MOVE PAST-I1 TO PAST-V21.
064100     MOVE TREE-PLOT-SZ-V21-I1 TO PLOT-SZ-V21.
064200     IF LINE-V21-I1 = SPACE OR ZERO
064300         MOVE ZERO TO LINE-V21-HLD
064400         ELSE MOVE LINE-V21-I1-RD TO LINE-V21-HLD.
064500     MOVE ZERO TO SUB.
064600 510-LOOP.
064700     ADD 1 TO SUB.
064800     IF SUB = 5
064900         GO TO 100-RET.
065000     IF (PLOT-NO-V21-I1-RD (SUB) > ZERO)
065100         AND (PLOT-NO-V21-I1-RD (SUB) < 41)
065200         MOVE PLOT-NO-V21-I1-RD (SUB) TO PLOT-NO-HLD
065300         MOVE 1 TO PLOT-TAB (PLOT-NO-HLD).
065400     IF (HCAF-V21-I1 (SUB) = SPACE) AND
065500         (PLANT-V21-I1 (SUB) NOT = "BARREN ")
065600         GO TO 510-LOOP.
065700     IF (PLANT-V21-I1 (SUB) = "BARREN ") AND
065800         (CHRZ-V21-I1 (SUB) > ZERO OR SPACE)
065900         GO TO 510-LOOP.
066000     MOVE PLOT-NO-V21-I1 (SUB) TO PLOT-NUM-V21.
066100     MOVE PLANT-V21-I1 (SUB) TO PLANT-V21.
066200     IF P1P-V21 = QUOTE MOVE "+" TO P1P-V21.
066300     IF P2P-V21 = QUOTE MOVE "+" TO P2P-V21.
066400     IF P3P-V21 = QUOTE MOVE "+" TO P3P-V21.
066500     IF P4P-V21 = QUOTE MOVE "+" TO P4P-V21.
066600     IF P5P-V21 = QUOTE MOVE "+" TO P5P-V21.
066700     IF P6P-V21 = QUOTE MOVE "+" TO P6P-V21.
066800     IF P7P-V21 = QUOTE MOVE "+" TO P7P-V21.
066900     MOVE AVAIL-V21-I1 (SUB) TO AVAIL-V21.
067000     IF AVAIL-V21 = "D" OR "E" MOVE "P" TO AVAIL-V21.
067100     IF AVAIL-V21 = "J" MOVE "U" TO AVAIL-V21.
067200     IF AVAIL-V21 = "R" MOVE "A" TO AVAIL-V21.
067300     IF AVAIL-V21 = "D" OR "E" MOVE "P" TO AVAIL-V21.
067400     MOVE PHNO-V21-I1 (SUB) TO PHNO-V21.

```

```

067500     IF PHNO-V21 = "G" MOVE "6" TO PHNO-V21.
067600     MOVE UTIL-V21-I1 (SUB) TO UTIL-V21.
067700     IF UTIL-V21 = "O" MOVE "0" TO UTIL-V21.
067800     MOVE AGE-V21-I1 (SUB) TO AGE-V21.
067900     IF AGE-V21 = "N" MOVE "M" TO AGE-V21.
068000     MOVE FORM-V21-I1 (SUB) TO FORM-V21.
068100     MOVE CHRZ-V21-I1 (SUB) TO CHRZ-V21.
068200     MOVE NOT-CHRZ-V21-I1 (SUB) TO NOT-CHRZ-V21.
068300     IF HGT-V21-I1 (SUB) NUMERIC
068400         MOVE HGT-V21-I1-RD (SUB) TO HGT-V21-RD
068500         ELSE MOVE HGT-V21-I1 (SUB) TO HGT-V21.
068600     IF CRWN-V21-I1 (SUB) NUMERIC
068700         MOVE CRWN-V21-I1-RD (SUB) TO CRWN-V21-RD
068800         ELSE MOVE CRWN-V21-I1 (SUB) TO CRWN-V21.
068900     IF (CRWN-V21-1P1 NOT = SPACE) AND
069000         (CRWN-V21-3P = SPACE)
069100         MOVE ZERO TO CRWN-V21-3P.
069200     IF (CRWN-V21-1P1 NOT = SPACE) AND
069300         (CRWN-V21-1P2 = SPACE)
069400         MOVE ZERO TO CRWN-V21-1P2.
069500*     IF PREV-CNTL NOT = V21-CNTL
069600*         MOVE ZERO TO LINE-CNTR.
069700*     ADD 1 TO LINE-CNTR.
069800*     MOVE LINE-CNTR TO LINE-V21.
069900*     MOVE V21-CNTL TO PREV-CNTL.
070000*     WRITE REC-P1 FROM V21.
070100     SUBTRACT 1 FROM SUB.
070200     IF LINE-V21-HLD > ZERO
070300         ADD SUB LINE-V21-HLD GIVING LINE-V21.
070400     ADD 1 TO SUB.
070500     WRITE REC-D1 FROM V21.
070600     ADD 1 TO C210.
070700     ADD 1 TO C990.
070800     GO TO 510-LOOP.
070900     600-V31.
071000     IF (SD-W1 = SD-HLD) AND (PAPSR-W1 = PAPSR-HLD)
071100         AND (GRP-2-W1 = GRP-2-V31-HLD)
071200         GO TO 620-PLOT.
071300     IF WR-SW = 1
071400         ADD 1 TO LINE-CNT
071500*         MOVE LINE-CNT TO LINE-V31
071600*         WRITE REC-P1 FROM V31
071700         WRITE REC-D1 FROM V31
071800         ADD 1 TO C310
071900         ADD 1 TO C990
072000         MOVE ZERO TO WR-SW.
072100     IF (SD-W1 = SD-HLD) AND (PAPSR-W1 = PAPSR-HLD)
072200         MOVE ZERO TO LINE-CNT.
072300     MOVE ZERO TO SUB.
072400     MOVE SPACE TO V31 PLOT-HLD.
072500     PERFORM 110-LOAD.
072600     MOVE V-CNTL TO V31-CNTL
072700     MOVE RA-HLD TO RA-V31.
072800     MOVE PAPSR-W1 TO PAPSR-HLD.
072900     MOVE PAST-HLD TO PAST-V31.
073000     MOVE "V3" TO REC-TYP-V31.
073100     MOVE RA-I1 TO RA-V31.

```

```

073200 MOVE PAST-I1 TO PAST-V31.
073300 MOVE FMT-NUM-W1 TO FMT-NUM-V31.
073400 IF ST-I1 = "UT" AND ((GRASS-PLOT-SZ-V21-I1 NOT NUMERIC) OR
073500 (GRASS-PLOT-SZ-V21-I1 = "00009"))
073600 MOVE "00960" TO GRASS-PLOT-SZ-V21-I1.
073700 MOVE GRASS-PLOT-SZ-V21-I1 TO PLOT-SZ-5P-V31.
073800 IF PLOT-SZ-5P-V31 NOT = SPACE
073900 MOVE ZERO TO PLOT-SZ-2P-V31.
074000 IF (PSZ-3P = SPACE) AND (PLOT-SZ-2P-V31 = ZERO)
074100 MOVE ZERO TO PSZ-3P.
074200 MOVE "B" TO FMT-CD-V31.
074300 MOVE SPACE TO LINE-V31.
074400 MOVE ACT-V21-I1 TO ACT-V31.
074500 MOVE HGT-W1 TO HGT-V31.
074600 MOVE PLANT-W1 TO PLANT-V31.
074700 IF P1P-V31 = QUOTE MOVE "+" TO P1P-V31.
074800 IF P2P-V31 = QUOTE MOVE "+" TO P2P-V31.
074900 IF P3P-V31 = QUOTE MOVE "+" TO P3P-V31.
075000 IF P4P-V31 = QUOTE MOVE "+" TO P4P-V31.
075100 IF P5P-V31 = QUOTE MOVE "+" TO P5P-V31.
075200 IF P6P-V31 = QUOTE MOVE "+" TO P6P-V31.
075300 IF P7P-V31 = QUOTE MOVE "+" TO P7P-V31.
075400 MOVE PLOT-TOT-HLD TO PLOT-TOT-V31.
075500 MOVE GRP-2-V31 TO GRP-2-V31-HLD.
075600 MOVE 1 TO WR-SW.
075700 620-PLOT.
075800 MOVE HGT-CLS-V21-I1 (OCC-W1, HGT-W1-RD) TO WGT-HLD.
075900 IF PLOT-W1 NOT = PLOT-HLD
076000 ADD 1 TO SUB.
076100 MOVE PLOT-W1 TO PLOT-HLD.
076200 IF SUB = 11 MOVE 1 TO SUB.
076300 MOVE WGT-HLD TO WGT-V31 (SUB).
076400 MOVE PLOT-W1 TO PLOT-V31 (SUB).
076500 MOVE AVAIL-V21-I1 (OCC-W1) TO AVAIL-V31 (SUB).
076600 MOVE PHNO-V21-I1 (OCC-W1) TO PHNO-V31 (SUB).
076700 MOVE UTIL-V21-I1 (OCC-W1) TO UTIL-V31 (SUB).
076800 IF PHNO-V31 (SUB) = "G" MOVE "6" TO PHNO-V31 (SUB).
076900 IF UTIL-V31 (SUB) = "O" MOVE "0" TO UTIL-V31 (SUB).
077000 IF AVAIL-V31 (SUB) = "D" MOVE "P" TO PHNO-V31 (SUB).
077100 IF AVAIL-V31 (SUB) = "J" MOVE "U" TO PHNO-V31 (SUB).
077200 IF AVAIL-V31 (SUB) = "E" MOVE "P" TO PHNO-V31 (SUB).
077300 IF AVAIL-V31 (SUB) = "R" MOVE "A" TO PHNO-V31 (SUB).
077400 IF (PHNO-V31 (SUB) NUMERIC) AND
077500 (UTIL-V31 (SUB) NOT NUMERIC)
077600 MOVE "0" TO UTIL-V31 (SUB).
077700 RETURN FIL-W1 AT END
077800 MOVE 1 TO END-SW
077900 GO TO 625-CK-WR.
078000 MOVE DATA-W1 TO REC-I1.
078100 IF PLANT-W1 NOT = SPACE
078200* DISPLAY "SR= " REC-W1
078300* DISPLAY "GOD " DATA-W1
078400 ADD 1 TO REC-CNT
078500 GO TO 600-V31.
078600 625-CK-WR.
078700 IF WR-SW = 1 MOVE ZERO TO WR-SW
078800 ADD 1 TO LINE-CNT

```

```

078900*      MOVE LINE-CNT TO LINE-V31
079000      ADD 1 TO C310
079100      ADD 1 TO C990
079200*      WRITE REC-P1 FROM V31
079300      WRITE REC-D1 FROM V31.
079400      GO TO 105-CK-REC.
079500 999-END.
079600 DUMMY SECTION.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES010M.
000300*      CONVERSION OF THE VEGETATIVE RECORDS FROM 144 TO 156 CHAR
000400*
000500 AUTHOR. CHUCK SLIZEWSKI.
000600 DATE-WRITTEN. 01/10/79.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400      SELECT FIL-D1          ASSIGN TO D1
001500      ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600      SELECT FIL-D2          ASSIGN TO D2
001700      ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800      SELECT FIL-I1          ASSIGN TO I1
001900      ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000      SELECT FIL-W1          ASSIGN TO W1
002100      ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002200 DATA DIVISION.
002300 SUB-SCHEMA SECTION.
002400 DB CODVAL2 WITHIN BLMDIC.
002500 FILE SECTION.
002600 FD FIL-D1
002700      CODE-SET IS GBCD
002800      LABEL RECORDS ARE STANDARD
002900      DATA RECORD IS REC-D1.
003000 01 REC-D1 PIC X(144).
003100 FD FIL-D2
003200      CODE-SET IS GBCD
003300      LABEL RECORDS ARE STANDARD
003400      DATA RECORD IS REC-D2.
003500 01 REC-D2 PIC X(156).
003600 FD FIL-I1
003700      CODE-SET IS GBCD
003800      LABEL RECORDS ARE STANDARD
003900      DATA RECORD IS REC-I1.
004000 01 REC-I1.
004100      03 FILLER          PIC XXXX.
004200      03 REC-TYP-I1      PIC XXXX.
004300      03 ST-I1          PIC XX.
004400      03 DS-I1          PIC XX.
004500      03 PU-I1          PIC XX.
004600      03 FILLER          PIC X(138).
004700      03 RA-I1          PIC XX.
004800      03 PAST-I1        PIC XX.

```

004900 SD FIL-W1  
005000 DATA RECORD IS REC-W1.  
005100 01 REC-W1.  
005200 03 FILLER PIC XXXX.  
005300 03 REC-TYP-W1 PIC XX.  
005400 03 FMT-NUM-W1 PIC X.  
005500 03 FMT-CD-W1 PIC X.  
005600 03 SDP-A-SWAT-W1.  
005700 05 SDP-W1.  
005800 07 ADST-DIST-CDS-W1  
005900 PIC XXXX.  
006000 07 PLU-CD-W1 PIC XX.  
006100 05 FILLER PIC X(10).  
006200 03 C25-T-61-W1 PIC X(37).  
006300 03 C62-T-144-W1.  
006400 05 HRBG-PROD-WGT-3A-W1  
006500 PIC XXXX OCCURS 10 TIMES.  
006600 05 FILLER PIC X(43).  
006700 03 C62-T-144-R1 REDEFINES C62-T-144-W1.  
006800 05 CLS-PLANT-PROD-WGT-3B-W1  
006900 PIC X(7) OCCURS 10 TIMES.  
007000 05 FILLER PIC X(13).  
007100 03 RA-I-W1 PIC XX.  
007200 WORKING-STORAGE SECTION.  
007300 77 REC-DEL-CNTR PIC 9(6) COMP-4 VALUE ZERO.  
007400 77 FMT-CNT PIC 9(6) VALUE ZERO.  
007500 77 REC-IN-CNTR PIC 9(6) COMP-4 VALUE ZERO.  
007600 77 REC-OUT-CNTR PIC 9(6) COMP-4 VALUE ZERO.  
007700 77 SS2A PIC 99 COMP-4.  
007800 77 LIN-NUM-H PIC 999.  
007900 77 RA-CD-H PIC XX.  
008000 01 PARAMETER.  
008100 03 RFORMAT-FLG PIC XXX.  
008200 03 FILLER PIC X(77).  
008300 01 REC-H1.  
008400 03 C1-T-156-H1.  
008500 05 C1-T-144-H1.  
008600 07 FILLER PIC XXXX.  
008700 07 REC-TYP-H1 PIC XX.  
008800 07 FMT-NUM-H1 PIC X.  
008900 07 FMT-CD-H1 PIC X.  
009000 07 SDP-A-SWAT-H1.  
009100 09 SDP-H1 PIC X(6).  
009200 09 ALLOT-H1 PIC X(04).  
009300 09 FILLER PIC X(06).  
009400 07 ACTN-CD-LIN-NUM-H1.  
009500 09 ACTN-CD-H1 PIC X.  
009600 09 LIN-NUM-H1 PIC 999.  
009700 07 FILLER PIC X(7).  
009800 07 RA-CD-H1 PIC XX.  
009900 07 FILLER PIC X(107).  
010000 05 FILLER PIC X(8).  
010100 05 RA-I-H1 PIC XX.  
010200 05 PS-I-H1 PIC XX.  
010300 03 C1-T-156-R1 REDEFINES C1-T-156-H1.  
010400 05 FILLER PIC X(61).  
010500 05 C62-T-144-H1.



```

010600          07 GRP-3A-H1          PIC X(6) OCCURS 10 TIMES.
010700          07 FILLER             PIC X(35).
010800          05 C62-T-144-R1 REDEFINES C62-T-144-H1.
010900          07 GRP-3B-H1          PIC X(9) OCCURS 10 TIMES.
011000          07 FILLER             PIC X(5).
011100 01 HOLD-AREA.
011200          03 ADST-CD-T-FMT-NUM-H2.
011300          05 SDP-A-SWAT-H2          PIC X(16).
011400          05 REC-TYP-H2           PIC XX.
011500          05 FMT-CD-H2 PIC X.
011600          05 FMT-NUM-H2 PIC X.
011700          03 ADST-CD-T-FMT-NUM-H3 PIC X(20) VALUE SPACES.
011800          03 GRP-3A-H2.
011900          05 PLOT-NUM-3A-H2 PIC 99.
012000          05 PLOT-NUM-3A-R2 REDEFINES PLOT-NUM-3A-H2 PIC XX.
012100          05 HRBG-PROD-WGT-3A-H2 PIC XXXX.
012200          03 GRP-3B-H2.
012300          05 PLOT-NUM-3B-H2 PIC 99.
012400          05 PLOT-NUM-3B-R2 REDEFINES PLOT-NUM-3B-H2 PIC XX.
012500          05 CLS-PLANT-PROD-WGT-3B-H2 PIC X(7).
012600          03 ADST-DIST-RA-PLU-CDS-H3.
012700          07 ADST-DIST-CDS-H3 PIC XXXX.
012800          07 RA-CD-H3.
012900          09 RA-CD-C1-H3 PIC 9.
013000          09 FILLER PIC 9 VALUE 8.
013100          07 PLU-CD-H3 PIC XX.
013200 PROCEDURE DIVISION.
013300 SS SECTION.
013400 SSP.
013500          SORT FIL-W1 ON ASCENDING KEY SDP-A-SWAT-W1,
013600                                REC-TYP-W1,
013700                                FMT-CD-W1,
013800                                FMT-NUM-W1,
013900                                C25-T-61-W1,
014000                                C62-T-144-W1,
014100          INPUT PROCEDURE IS IN-PROC,
014200          OUTPUT PROCEDURE IS OT-PROC.
014300 IN-PROC SECTION.
014400 IPP.
014500          ACCEPT PARAMETER.
014600          OPEN INPUT FIL-I1,
014700          OUTPUT FIL-D2.
014800 0100.
014900          READ FIL-I1 AT END GO TO 0900.
015000          ADD 1 TO FMT-CNT.
015100          IF FMT-CNT < 10 DISPLAY "REC-I1= " REC-I1.
015200          ADD 1 TO REC-IN-CNTR.
015300*          MOVE REC-I1 TO REC-H1. MOVE "A" TO ACTN-CD-H1.
015400          MOVE REC-I1 TO REC-H1. MOVE "A " TO ACTN-CD-LIN-NUM-H1.
015500          IF FMT-CNT < 10 DISPLAY "REC-H1= " REC-H1.
015600          MOVE C1-T-144-H1 TO REC-W1.
015700          MOVE RA-I-H1 TO RA-I-W1.
015800          IF FMT-CNT < 10 DISPLAY "REC-W1= " REC-W1.
015900          IF REC-TYP-H1 NOT = "V3" GO TO 0800.
016000          IF RFORMAT-FLG NOT = "YES" GO TO 0800.
016100          MOVE SPACES TO C62-T-144-W1. MOVE 1 TO SS2A.
016200          IF FMT-CD-H1 = "B" GO TO 0500.

```

```

016300     IF FMT-CD-H1 NOT = "A"
016400         MOVE REC-I1 TO REC-D2  WRITE REC-D2
016500         DISPLAY "      BAD FORMAT CODE", DISPLAY REC-I1
016600         DISPLAY SPACE  GO TO 0100.
016700 0200.
016800     MOVE GRP-3A-H1 (SS2A) TO GRP-3A-H2.
016900     IF GRP-3A-H2 = SPACES  GO TO 0400.
017000     IF PLOT-NUM-3A-H2 ZERO OR PLOT-NUM-3A-R2 NOT NUMERIC
017100         MOVE REC-I1 TO REC-D2  WRITE REC-D2
017200         DISPLAY "      BAD PLOT NUMBER", DISPLAY REC-I1
017300         DISPLAY SPACE  GO TO 0100.
017400 0300.
017500     IF PLOT-NUM-3A-H2 > 10
017600         SUBTRACT 10 FROM PLOT-NUM-3A-H2  GO TO 0300.
017700     MOVE HRBG-PROD-WGT-3A-H2
017800         TO HRBG-PROD-WGT-3A-W1 (PLOT-NUM-3A-H2).
017900 0400.
018000     IF SS2A < 10  ADD 1 TO SS2A  GO TO 0200.  GO TO 0800.
018100 0500.
018200     MOVE GRP-3B-H1 (SS2A) TO GRP-3B-H2.
018300     IF GRP-3B-H2 = SPACES  GO TO 0700.
018400     IF PLOT-NUM-3B-H2 ZERO OR PLOT-NUM-3B-R2 NOT NUMERIC
018500         MOVE REC-I1 TO REC-D2  WRITE REC-D2
018600         DISPLAY "      BAD PLOT NUMBER", DISPLAY REC-I1
018700         DISPLAY SPACE  GO TO 0100.
018800 0600.
018900     IF PLOT-NUM-3B-H2 > 10
019000         SUBTRACT 10 FROM PLOT-NUM-3B-H2  GO TO 0600.
019100     MOVE CLS-PLANT-PROD-WGT-3B-H2
019200         TO CLS-PLANT-PROD-WGT-3B-W1 (PLOT-NUM-3B-H2).
019300 0700.
019400     IF SS2A < 10  ADD 1 TO SS2A  GO TO 0500.
019500 0800.
019600     RELEASE REC-W1.  GO TO 0100.
019700 0900.
019800     CLOSE FIL-I1.
019900 OT-PROC SECTION.
020000 OPP.
020100     OPEN OUTPUT FIL-D1.  READY DIC-DE.
020200     MOVE ZERO TO FMT-CNT.
020300     MOVE SPACES TO SDP-H1.
020400 1000-RETURN.
020500     RETURN FIL-W1  AT END
020600         DISPLAY "TOTAL RECORDS IN      = ", REC-IN-CNTR
020700         DISPLAY "TOTAL RECORDS DELETED = ", REC-DEL-CNTR
020800         DISPLAY "TOTAL RECORDS OUT    = ", REC-OUT-CNTR
020900         CLOSE FIL-D1, FIL-D2  FINISH DIC-DE  STOP RUN.
021000     ADD 1 TO FMT-CNT.
021100     IF FMT-CNT < 10 DISPLAY "REC-W1= " REC-W1.
021200     IF C1-T-144-H1 = REC-W1  DISPLAY SPACE
021300         DISPLAY C1-T-144-H1  DISPLAY REC-W1
021400         ADD 1 TO REC-DEL-CNTR  GO TO 1000-RETURN.
021500     IF SDP-H1 = SDP-W1
021600         GO TO 1200-WRITE.
021700     MOVE ADST-DIST-CDS-W1 TO ADST-DIST-CDS-H3.
021800     MOVE RA-I-W1 TO RA-CD-H.
021900     MOVE 4 TO RA-CD-C1-H3.  MOVE PLU-CD-W1 TO PLU-CD-H3.

```

```

022000     MOVE 0003 TO DE-NO-8801-DEC.
022100     GO TO 1200-WRITE.
022200 1100-FIND-RA.
022300     MOVE ADST-DIST-RA-PLU-CDS-H3 TO DE-CD-8822-DEC.
022400     FIND ANY CODE-DEC.
022500     IF DB-STATUS = ZERO
022600         MOVE RA-CD-H3 TO RA-CD-H GO TO 1200-WRITE.
022700     IF RA-CD-C1-H3 < 8 ADD 1 TO RA-CD-C1-H3
022800         GO TO 1100-FIND-RA.
022900     MOVE REC-W1 TO REC-D2. WRITE REC-D2.
023000     DISPLAY "      BAD STATE, DISTRICT, PLANNING UNIT CODES".
023100     DISPLAY REC-W1. DISPLAY SPACE. GO TO 1000-RETURN.
023200 1200-WRITE.
023300     IF FMT-CNT < 10 DISPLAY "REC-W1= " REC-I1.
023400     MOVE REC-W1 TO C1-T-144-H1.
023500     IF FMT-CNT < 10 DISPLAY "REC-H1= " REC-H1.
023600     MOVE SDP-A-SWAT-H1 TO SDP-A-SWAT-H2.
023700     MOVE REC-TYP-H1 TO REC-TYP-H2.
023800     MOVE FMT-CD-H1 TO FMT-CD-H2.
023900     MOVE FMT-NUM-H1 TO FMT-NUM-H2.
024000     IF ADST-CD-T-FMT-NUM-H2 NOT = ADST-CD-T-FMT-NUM-H3
024100         MOVE ADST-CD-T-FMT-NUM-H2 TO ADST-CD-T-FMT-NUM-H3
024200         MOVE ZERO TO LIN-NUM-H. ADD 1 TO LIN-NUM-H.
024300     MOVE LIN-NUM-H TO LIN-NUM-H1.
024400     MOVE RA-CD-H TO RA-CD-H1. MOVE C1-T-144-H1 TO REC-D1.
024500     IF FMT-CNT < 10 DISPLAY "HLD-AR= " HOLD-AREA.
024600     IF FMT-CNT < 10 DISPLAY "REC-D1= " REC-D1.
024700     WRITE REC-D1. ADD 1 TO REC-OUT-CNTR. GO TO 1000-RETURN.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES021P.
000300*      VEGETATIVE VERIFICATION LISTING
000400*
000500 AUTHOR. CHUCK SLIZEWSKI.
000500 DATE-WRITTEN. 01/10/79.
000600 DATE-COMPILED.
000700 ENVIRONMENT DIVISION.
000800 CONFIGURATION SECTION.
000900 SOURCE-COMPUTER. LEVEL-66-ASCII.
001000 OBJECT-COMPUTER. LEVEL-66-ASCII.
001100 INPUT-OUTPUT SECTION.
001200 FILE-CONTROL.
001300     SELECT FIL-I1 ASSIGN TO I1
001400     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001500     SELECT FIL-P1 ASSIGN TO P1
001600     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001700 DATA DIVISION.
001800 SUB-SCHEMA SECTION.
001900 DB CODVAL2 WITHIN BLMDIC.
002000 FILE SECTION.
002100 FD FIL-I1
002200     CODE-SET IS GBCD
002300     LABEL RECORDS ARE STANDARD
002400     DATA RECORD IS REC-I1.
002500 01 REC-I1 PIC X(144).
002600 FD FIL-P1
002700     CODE-SET IS GBCD

```

```

002800 LABEL RECORDS ARE STANDARD
002900 DATA RECORD IS REC-P1.
003000 01 REC-P1 PIC X(132).
003100 WORKING-STORAGE SECTION.
003200 77 LIN-CHK PIC 99 COMP-4.
003300 77 IN-CNTR PIC 9(6) COMP-4 VALUE ZERO.
003400 77 LIN-CNTR PIC 99 COMP-4.
003500 77 PAG-CNTR PIC 9999 COMP-4 VALUE ZERO.
003600 77 RITE-HDR-FLG PIC 9 COMP-4.
003700 77 RITE-KEY-FLG PIC 9 COMP-4.
003800 77 SS1A PIC 9 COMP-4.
003900 77 SS1B PIC 9 COMP-4.
004000 77 SS1C PIC 9 COMP-4.
004100 77 SS1D PIC 9 COMP-4.
004200 77 SS2A PIC 99 COMP-4.
004300 01 COL-HDR1A.
004400 03 FILLER PIC X(24) VALUE " ST DIST PL".
004500 03 FILLER PIC X(24) VALUE "U ALLOT SWA TRN ".
004600 03 FILLER PIC X(84) VALUE SPACES.
004700 01 COL-HDR1B.
004800 03 FILLER PIC X(24) VALUE " 9-10 11-12 13-".
004900 03 FILLER PIC X(24) VALUE "14 15-18 19-22 23-24".
005000 03 FILLER PIC X(84) VALUE SPACES.
005100 01 COL-HDR1C.
005200 03 FILLER PIC X(24) VALUE " XX XX XX".
005300 03 FILLER PIC X(24) VALUE " XXXX XXXX XX ".
005400 03 FILLER PIC X(84) VALUE SPACES.
005500 01 COL-HDRA11 PIC X(108) VALUE "O SWA/T RNG SITE CC VEG S
005600- "-TYP % SWA DATE RECR A/PHOTO
005700- "CMPR: ST DIST TWP RNG NUM ".
005800 01 COL-HDRB11 PIC X(108) VALUE "30-35 45-55 56 57-
005900- "60 61-63 64-69 70-72 73-88
006000- " 89-90 91-92 93-97 98-102 103-104 ".
006100 01 COL-HDRC11 PIC X(108) VALUE "XXXXXXXXXXXXXXXXX X XXX
006200- "X XXX XXXXXX XXX XXXXXXXXXXXXXXXX
006300- "XXX XX XX XXXXX XXXXX XX ".
006400 01 COL-HDRA12 PIC X(108) VALUE "GRND CVR BASAL NUM - - - -
006500- " - O B S E R V E D S P E C I E S- - - -
006600- " - ".
006700 01 COL-HDRB12 PIC X(108) VALUE " DATA: 45 46-48 49-55
006800- " 56-62 63-69 70-7
006900- "6 ".
007000 01 COL-HDRC12 PIC X(108) VALUE " X XXX XXXXXXXX
007100- " XXXXXXXX XXXXXXXX XXXXX
007200- "XX ".
007300 01 COL-HDRA13 PIC X(108) VALUE " BASAL CANOPY 1 CANOPY 2
007400- " CANOPY 3 NUM BASAL CANOPY 1
007500- " CANOPY 2 CANOPY 3 NUM ".
007600 01 COL-HDRB13 PIC X(108) VALUE " 45-53 54-62 63-71
007700- " 72-80 81-83 84-92 93-101
007800- " 102-110 111-119 120-122 ".
007900 01 COL-HDRC13 PIC X(108) VALUE "XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
008000- "X XXXXXXXXXX XXX XXXXXXXXXX XXXXXXXXXX
008100- "X XXXXXXXXXX XXXXXXXXXX XXX ".
008200 01 COL-HDRA14 PIC X(108) VALUE "SOIL MVMT SOIL LITR SURF ROC
008300- "K PEDESTALL FLOW PTRN RILLS GUL
008400- "LIES ".

```

```

008500 01 COL-HDRB14 PIC X(108) VALUE " 45-46      47-48      49-50
008600-      "      51-52      53-54      55-56      57
008700-      "-58                                     ".
008800 01 COL-HDRC14 PIC X(108) VALUE "  XX      XX      XX
008900-      "      XX      XX      XX      X
009000-      "X                                     ".
009100 01 COL-HDRA21 PIC X(108) VALUE "SIZ/PLOT/NUM  SPECIES  AGE/CL
009200-      "ASS/Form  PHNO  AVAIL  UTIL  HGT  D/CNT
009300-      "  L/LGT  CROWN  DIA  N/CHARZD  M/CROPS ".
009400 01 COL-HDRB21 PIC X(108) VALUE "45      46-47      48-54      55
009500-      "      56      57      58      59      60-64      65-67
009600-      "      68-72      73-77      78-80      81      ".
009700 01 COL-HDRC21 PIC X(108) VALUE " X      XX      XXXXXXXX  X
009800-      "      X      X      X      X      XXX  XX  XXX
009900-      "      XXX  XX  XXX  XX      XXX      X      ".
010000 01 COL-HDRA3A PIC X(108) VALUE " NUM/PLOT/SIZ  SPECIES  HGT
010100-      " WGT-EXT  1      2      3      4      5
010200-      "      6      7      8      9      10  ".
010300 01 COL-HDRB3A PIC X(108) VALUE "45-46      47-53      54-60      61
010400-      "  DATA: 62-65  66-69  70-73  74-77  78-
010500-      "81  82-85  86-89  90-93  94-97  98-101 ".
010600 01 COL-HDRC3A PIC X(108) VALUE " XX      XXXXX  XX  XXXXXXXX  X
010700-      "      XXXX  XXXX  XXXX  XXXX  XXX
010800-      "X  XXXX  XXXX  XXXX  XXXX  XXXX ".
010900 01 COL-HDRA3B PIC X(108) VALUE "NUM/PLOT/SIZ SPECIES HGT WE
011000-      " 1      2      3      4      5
011100-      " 6      7      8      9      10  ".
011200 01 COL-HDRB3B PIC X(108) VALUE "45-46 47-53 54-60 61 D: 6
011300-      "2-68 69-75 76-82 83-89 90-96 97
011400-      "-103 104-110 111-117 118-124 125-131 ".
011500 01 COL-HDRC3B PIC X(108) VALUE " XX XXXXX  XX  XXXXXXXX  X  XX
011600-      "XXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XX
011700-      "XXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX ".
011800 01 COL-HDR2A.
011900      03 FILLER PIC X(24) VALUE "REC TYP  ACTN  LIN NUM  ".
012000      03 COL-HDR2A1 PIC X(108).
012100 01 COL-HDR2B.
012200      03 FILLER PIC X(24) VALUE " 5-8      25      26-28  ".
012300      03 COL-HDR2B1 PIC X(108).
012400 01 COL-HDR2C.
012500      03 FILLER PIC X(24) VALUE " XXXX      X      XXX  ".
012600      03 COL-HDR2C1 PIC X(108).
012700 01 DATA-LIN1A VALUE SPACES.
012800      03 FILLER PIC X.
012900      03 REC-TYP-T-FMT-CD-DL1A.
013000      05 FILLER PIC XX.
013100      05 FMT-NUM-DL1A PIC X.
013200      05 FILLER PIC X.
013300      03 FILLER PIC X(5).
013400      03 ACTN-CD-DL1A PIC X.
013500      03 FILLER PIC X(6).
013600      03 LIN-NUM-DL1A PIC XXX.
013700      03 FILLER PIC XXXX.
013800      03 DATA-LIN1A11.
013900      05 SWA-BRWD-DL1A11 PIC X(6).
014000      05 FILLER PIC XX.
014100      05 RNG-SITE-ID-DL1A11 PIC X(11).

```

```

014200      05  FILLER  PIC XX.
014300      05  RNG-ECOL-COND-CLS-DL1A11  PIC X.
014400      05  FILLER  PIC X(5).
014500      05  VEG-SUB-TYP-DL1A11  PIC XXXX.
014600      05  FILLER  PIC X(6).
014700      05  SWA-PCT-DL1A11  PIC XXX.
014800      05  FILLER  PIC XXX.
014900      05  DATA-DAT-DL1A11  PIC X(6).
015000      05  FILLER  PIC XXX.
015100      05  RECER-INTLS-DL1A11  PIC XXX.
015200      05  FILLER  PIC XX.
015300      05  PHOTO-ID-DL1A11  PIC X(16).
015400      05  FILLER  PIC XXX.
015500      05  ADST-CD-CMPR-DL1A11  PIC XX.
015600      05  FILLER  PIC XXXX.
015700      05  DIST-CD-CMPR-DL1A11  PIC XX.
015800      05  FILLER  PIC XXX.
015900      05  TWP-CMPR-DL1A11  PIC X(5).
016000      05  FILLER  PIC X.
016100      05  RNG-CMPR-DL1A11  PIC X(5).
016200      05  FILLER  PIC XXXX.
016300      05  CONS-NUM-CMPR-DL1A11  PIC XX.
016400      05  FILLER  PIC XXXX.
016500      03  DATA-LIN1A12 REDEFINES DATA-LIN1A11.
016600      05  FILLER  PIC X(10).
016700      05  TYP-GC-CD-DL1A12  PIC X.
016800      05  FILLER  PIC X(5).
016900      05  TYP-GC-HITS-DL1A12  PIC XXX.
017000      05  FILLER  PIC XXXX.
017100      05  GRP-DL1A12 OCCURS 4 TIMES.
017200      07  PLANT-CD-DL1A12  PIC X(7).
017300      07  FILLER  PIC X(7).
017400      05  FILLER  PIC X(29).
017500      03  DATA-LIN1A13 REDEFINES DATA-LIN1A11.
017600      05  GRP1-DL1A13 OCCURS 2 TIMES.
017700      07  GRP2-DL1A13 OCCURS 4 TIMES.
017800      09  PLANT-CD-DL1A13  PIC X(9).
017900      09  FILLER  PIC XX.
018000      07  TYP-GC-HITS-DL1A13  PIC XXX.
018100      07  FILLER  PIC XXXX.
018200      05  FILLER  PIC X(6).
018300      03  DATA-LIN1A14 REDEFINES DATA-LIN1A11.
018400      05  FILLER  PIC XXX.
018500      05  GRP-DL1A14 OCCURS 7 TIMES.
018600      07  SSF-VAL-RAT-DL1A14  PIC XX.
018700      07  FILLER  PIC X(9).
018800      05  FILLER  PIC X(28).
018900      03  DATA-LIN1A21 REDEFINES DATA-LIN1A11.
019000      05  FILLER  PIC X.
019100      05  PLOT-SIZ-DL1A21  PIC X.
019200      05  FILLER  PIC X(7).
019300      05  PLOT-NUM-DL1A21  PIC XX.
019400      05  FILLER  PIC XXXX.
019500      05  PLANT-CD-DL1A21  PIC X(7).
019600      05  FILLER  PIC XXX.
019700      05  AGE-CLS-PLANT-DL1A21  PIC X.
019800      05  FILLER  PIC X(9).

```

019900 05 FORM-CLS-PLANT-DL1A21 PIC X.  
020000 05 FILLER PIC X(5).  
020100 05 PHNO-STG-DL1A21 PIC X.  
020200 05 FILLER PIC X(6).  
020300 05 CLS-PLANT-AVAIL-DL1A21 PIC X.  
020400 05 FILLER PIC X(5).  
020500 05 CLS-PLANT-UTIL-DL1A21 PIC X.  
020600 05 FILLER PIC XXX.  
020700 05 AVG-HGT-PLANT-INGR-DL1A21 PIC XXX.  
020800 05 AVG-HGT-PLANT-DEC-DL1A21 PIC X.  
020900 05 AVG-HGT-PLANT-FRC-DL1A21 PIC XX.  
021000 05 FILLER PIC XX.  
021100 05 CHARZD-NUM-DL1A21 PIC XXX.  
021200 05 FILLER PIC XXX.  
021300 05 AVG-LDR-LGT-INGR-DL1A21 PIC XXX.  
021400 05 AVG-LDR-LGT-DEC-DL1A21 PIC X.  
021500 05 AVG-LDR-LGT-FRC-DL1A21 PIC XX.  
021600 05 FILLER PIC XXX.  
021700 05 AVG-CRN-DIA-INGR-DL1A21 PIC XXX.  
021800 05 AVG-CRN-DIA-DEC-DL1A21 PIC X.  
021900 05 AVG-CRN-DIA-FRC-DL1A21 PIC XX.  
022000 05 FILLER PIC X(5).  
022100 05 CHARZD-NOT-NUM-DL1A21 PIC XXX.  
022200 05 FILLER PIC X(8).  
022300 05 MAST-CROPS-CD-DL1A21 PIC X.  
022400 05 FILLER PIC XXXX.  
022500 03 DATA-LIN1A3A REDEFINES DATA-LIN1A11.  
022600 05 FILLER PIC X.  
022700 05 PLOT-TOT-NUM-DL1A3A PIC XX.  
022800 05 FILLER PIC XXXX.  
022900 05 PLOT-SIZ-EST-INGR-DL1A3A PIC X(5).  
023000 05 PLOT-SIZ-EST-DEC-DL1A3A PIC X.  
023100 05 PLOT-SIZ-EST-FRC-DL1A3A PIC XX.  
023200 05 FILLER PIC XX.  
023300 05 PLANT-CD-DL1A3A PIC X(7).  
023400 05 FILLER PIC XXX.  
023500 05 HGT-CLS-CD-DL1A3A PIC X.  
023600 05 FILLER PIC X(10).  
023700 05 GRP-DL1A3A OCCURS 10 TIMES.  
023800 07 FILLER PIC X.  
023900 07 HRBG-PROD-WGT-DL1A3A PIC XXXX.  
024000 07 FILLER PIC XX.  
024100 03 DATA-LIN1A3B REDEFINES DATA-LIN1A11.  
024200 05 FILLER PIC X.  
024300 05 PLOT-TOT-NUM-DL1A3B PIC XX.  
024400 05 FILLER PIC X.  
024500 05 PLOT-SIZ-EST-INGR-DL1A3B PIC X(5).  
024600 05 PLOT-SIZ-EST-DEC-DL1A3B PIC X.  
024700 05 PLOT-SIZ-EST-FRC-DL1A3B PIC XX.  
024800 05 FILLER PIC X.  
024900 05 PLANT-CD-DL1A3B PIC X(7).  
025000 05 FILLER PIC XX.  
025100 05 HGT-CLS-CD-DL1A3B PIC X.  
025200 05 FILLER PIC X(5).  
025300 05 GRP1-DL1A3B OCCURS 10 TIMES.  
025400 07 GRP2-DL1A3B PIC X(7).  
025500 07 FILLER PIC X.

025600 01 HOLD-AREA.  
025700 03 ADST-CD-T-TRN-NUM-H PIC X(16) VALUE SPACES.  
025800 03 ADST-CD-T-TRN-NUM-D11H.  
025900 05 ADST-CD-D11H PIC XX VALUE SPACES.  
026000 05 DIST-CD-D11H PIC XX.  
026100 05 PLU-CD-D11H PIC XX.  
026200 05 ALLOT-NUM-D11H PIC XXXX.  
026300 05 SWA-CD-D11H PIC XXXX.  
026400 05 TRN-NUM-D11H PIC XX.  
026500 03 ADST-INV-NAM-H.  
026600 05 ADST-NAM-H PIC X(10).  
026700 05 INV-NAM-H PIC X(30).  
026800 03 DAT-H.  
026900 05 YER-H PIC XX.  
027000 05 MON-H PIC 99.  
027100 05 DAY-H PIC XX.  
027200 01 KEY-LIN1A.  
027300 03 FILLER PIC X(10) VALUE SPACES.  
027400 03 ADST-CD-KL1A PIC XX.  
027500 03 FILLER PIC XXXX VALUE SPACES.  
027600 03 DIST-CD-KL1A PIC XX.  
027700 03 FILLER PIC XXXX VALUE SPACES.  
027800 03 PLU-CD-KL1A PIC XX.  
027900 03 FILLER PIC XXXX VALUE SPACES.  
028000 03 ALLOT-NUM-KL1A PIC XXXX.  
028100 03 FILLER PIC XXXX VALUE SPACES.  
028200 03 SWA-CD-KL1A PIC XXXX.  
028300 03 FILLER PIC XXXX VALUE SPACES.  
028400 03 TRN-NUM-KL1A PIC XX.  
028500 03 FILLER PIC X(86) VALUE SPACES.  
028600 01 PAG-HDR1.  
028700 03 FILLER PIC XXXX VALUE SPACES.  
028800 03 MON-PH1 PIC XXX.  
028900 03 FILLER PIC X VALUE SPACE.  
029000 03 DAY-PH1 PIC XX.  
029100 03 FILLER PIC XXXX VALUE ", 19".  
029200 03 YER-PH1 PIC XX.  
029300 03 FILLER PIC X(26) VALUE SPACES.  
029400 03 FILLER PIC X(49) VALUE "USDI - BUR OF LAND MGT ECOLOGI  
029500- "CAL SITE INVENTORY".  
029600 03 FILLER PIC X(26) VALUE SPACES.  
029700 03 FILLER PIC X(06) VALUE "PAGE: ".  
029800 03 PAG-CNT-PH1 PIC ZZ,ZZ9.  
029900 03 FILLER PIC X(03) VALUE SPACES.  
030000 01 PAG-HDR2.  
030100 03 FILLER PIC X(7) VALUE "STATE: ".  
030200 03 STATE-HDR PIC X(10).  
030300 03 FILLER PIC X(8) VALUE " INV: ".  
030400 03 INVEN-CD-HDR PIC XXXX.  
030500 03 FILLER PIC XXXXX VALUE " - ".  
030600 03 INVENTORY-HDR PIC X(20).  
030700 03 FILLER PIC X(4) VALUE SPACES.  
030800 03 FILLER PIC X(42) VALUE "V1, V2, V3 VERIFICATION LIST -  
030900- "PCN: ES021P".  
031000 03 FILLER PIC X(32) VALUE SPACES.  
031100 01 REC-H1.  
031200 03 FILLER PIC X(8) VALUE "0000V00A".



```

031300      03  ADST-CD-T-TRN-NUM-H1  PIC X(16).
031400      03  FILLER  PIC X(120).
031500  01  TABL-AREA.
031600      03  MON-V  PIC X(36)  VALUE  "JANFEBMARAPRMAYJUNJULAUGSEPOCT
031700-                                     "NOVDEC".
031800      03  MON-T  REDEFINES  MON-V  PIC XXX  OCCURS 12 TIMES.
031900  01  D11X.
032000      03  BATCH-NUM-D11X  PIC XXXX.
032100      03  REC-TYP-T-FMT-CD-D11X.
032200          05  REC-TYP-D11X  PIC XX.
032300          05  FMT-NUM-D11X  PIC X.
032400          05  FMT-CD-D11X  PIC X.
032500      03  ADST-CD-T-TRN-NUM-D11X.
032600          05  ADST-DIST-PLU-CDS-D11X  PIC X(6).
032700          05  ALLOT-NUM-T-TRN-NUM-D11X  PIC X(10).
032800      03  ACTN-CD-D11X  PIC X.
032900      03  LIN-NUM-D11X  PIC XXX.
033000      03  FILLER  PIC X.
033100      03  SWA-BRWD-D11X.
033200          05  SWA-CD-BRWD-D11X  PIC X.
033300          05  SWA-NUM-BRWD-D11X  PIC XXX.
033400          05  TRN-NUM-BRWD-D11X  PIC XX.
033500      03  FILLER  PIC X(9).
033600      03  D11AX.
033700          05  RNG-SITE-ID-D11AX  PIC X(11).
033800          05  RNG-ECOL-COND-CLS-D11AX  PIC X.
033900          05  VEG-SUB-TYP-D11AX  PIC XXXX.
034000          05  SWA-PCT-D11AX  PIC XXX.
034100          05  DATA-DAT-D11AX.
034200          07  DATA-YER-D11AX  PIC XX.
034300          07  DATA-MON-D11AX  PIC XX.
034400          07  DATA-DAY-D11AX  PIC XX.
034500          05  RECER-INTLS-D11AX  PIC XXX.
034600          05  PHOTO-ID-D11AX  PIC X(16).
034700          05  CMPR-ID-D11AX.
034800          07  ADST-DIST-CDS-CMPR-D11AX.
034900          09  ADST-CD-CMPR-D11AX  PIC XX.
035000          09  DIST-CD-CMPR-D11AX  PIC XX.
035100          07  TWP-CMPR-D11AX.
035200          09  TWP-NUM-CMPR-D11AX  PIC XXX.
035300          09  TWP-FRC-CMPR-D11AX  PIC X.
035400          09  TWP-DIR-CMPR-D11AX  PIC X.
035500          07  RNG-CMPR-D11AX.
035600          09  RNG-NUM-CMPR-D11AX  PIC XXX.
035700          09  RNG-FRC-CMPR-D11AX  PIC X.
035800          09  RNG-DIR-CMPR-D11AX  PIC X.
035900          07  CONS-NUM-CMPR-D11AX  PIC XX.
036000          05  FILLER  PIC X(40).
036100      03  D12AX  REDEFINES  D11AX.
036200          05  TYP-GC-CD-D12AX  PIC X.
036300          05  TYP-GC-HITS-D12AX  PIC XXX.
036400          05  PLANT-CD-D12AX  PIC X(7)  OCCURS 4 TIMES.
036500          05  FILLER  PIC X(68).
036600      03  D13AX  REDEFINES  D11AX.
036700          05  GRP1-D13AX.
036800          07  FILLER  PIC X(39).
036900          07  PLANT-CDS-TYP-GC-HITS-D13AX  PIC X(39).

```

```

037000      05  GRP2-D13AX REDEFINES GRP1-D13AX OCCURS 2 TIMES.
037100      07  PLANT-CD-D13AX PIC X(9) OCCURS 4 TIMES.
037200      07  TYP-GC-HITS-D13AX PIC XXX.
037300      05  FILLER PIC X(22).
037400      03  D14AX REDEFINES D11AX.
037500      05  SSF-VAL-RAT-D14AX PIC XX OCCURS 7 TIMES.
037600      05  FILLER PIC X(86).
037700      03  D21AX REDEFINES D11AX.
037800      05  PLOT-SIZ-D21AX PIC X.
037900      05  PLOT-NUM-D21AX PIC XX.
038000      05  PLANT-CD-D21AX PIC X(7).
038100      05  AGE-CLS-PLANT-D21AX PIC X.
038200      05  FORM-CLS-PLANT-D21AX PIC X.
038300      05  PHNO-STG-D21AX PIC X.
038400      05  CLS-PLANT-AVAIL-D21AX PIC X.
038500      05  CLS-PLANT-UTIL-D21AX PIC X.
038600      05  AVG-HGT-PLANT-D21AX.
038700      07  AVG-HGT-PLANT-INGR-D21AX PIC XXX.
038800      07  AVG-HGT-PLANT-FRC-D21AX PIC XX.
038900      05  CHARZD-NUM-D21AX PIC XXX.
039000      05  AVG-LDR-LGT-D21AX.
039100      07  AVG-LDR-LGT-INGR-D21AX PIC XXX.
039200      07  AVG-LDR-LGT-FRC-D21AX PIC XX.
039300      05  AVG-CRN-DIA-D21AX.
039400      07  AVG-CRN-DIA-INGR-D21AX PIC XXX.
039500      07  AVG-CRN-DIA-FRC-D21AX PIC XX.
039600      05  CHARZD-NOT-NUM-D21AX PIC XXX.
039700      05  MAST-CROPS-CD-D21AX PIC X.
039800      05  FILLER PIC X(63).
039900      03  V3XAX REDEFINES D11AX.
040000      05  PLOT-TOT-NUM-V3XAX PIC XX.
040100      05  PLOT-SIZ-EST-V3XAX.
040200      07  PLOT-SIZ-EST-INGR-V3XAX PIC X(5).
040300      07  PLOT-SIZ-EST-FRC-V3XAX PIC XX.
040400      05  PLANT-CD-V3XAX PIC X(7).
040500      05  HGT-CLS-CD-V3XAX PIC X.
040600      05  HRBG-PROD-WGT-V3XAX PIC XXXX OCCURS 10 TIMES.
040700      05  FILLER PIC X(43).
040800      03  V3XBX REDEFINES D11AX.
040900      05  PLOT-TOT-NUM-V3XBX PIC XX.
041000      05  PLOT-SIZ-EST-V3XBX.
041100      07  PLOT-SIZ-EST-INGR-V3XBX PIC X(5).
041200      07  PLOT-SIZ-EST-FRC-V3XBX PIC XX.
041300      05  PLANT-CD-V3XBX PIC X(7).
041400      05  HGT-CLS-CD-V3XBX PIC X.
041500      05  GRP-V3XBX OCCURS 10 TIMES.
041600      07  CLS-PLANT-AVAIL-V3XBX PIC X.
041700      07  PHNO-STG-V3XBX PIC X.
041800      07  CLS-PLANT-UTIL-V3XBX PIC X.
041900      07  HRBG-PROD-WGT-V3XBX PIC XXXX.
042000      05  FILLER PIC X(13).
042100      01  DIC-HOLD.
042200      03  INV-HLD.
042300      05  INV-NM PIC X(20).
042400      05  ST-DIST-CD.
042500      07  ST-CD-HLD PIC X(02).
042600      07  DI-CD-HLD PIC X(02).

```

```

042700      03  EXPL-HLD.
042800          05  DIST-NM-HLD          PIC          X(12).
042900      03  FUNC-HLD.
043000          05  ST-NM-HLD          PIC          X(10).
043100          05  FILLER          PIC          X(14).
043200      COPY DBSTATUS IN TPCOBOLIB.
043300  01  INVENTORY          PIC XXXX  VALUE SPACE.
043400  PROCEDURE DIVISION.
043500  START-PARA.
043600      ACCEPT DAT-H FROM DATE.  MOVE MON-T (MON-H) TO MON-PH1.
043700      MOVE DAY-H TO DAY-PH1.  MOVE YER-H TO YER-PH1.
043800      OPEN INPUT  FIL-I1,
043900          OUTPUT FIL-P1.
044000      ACCEPT INVENTORY.
044100      READY DIC-DE.
044200  000-VALIDATE-INV.
044300      MOVE INVENTORY TO DE-CD-8822-DEC  INVEN-CD-HDR.
044400      MOVE 3940 TO DE-NO-8801-DEC.
044500      FIND ANY CODE-DEC.
044600      MOVE DB-STATUS TO DB-STAT.
044700      IF  NOT OK
044800          MOVE "UNKNOWN" TO STATE-HDR  INVENTORY-HDR
044900          GO  TO 000-EXIT.
045000      GET CODE-DEC.
045100      MOVE DB-STATUS TO DB-STAT.
045200      IF  NOT OK
045300          MOVE "UNKNOWN" TO STATE-HDR  INVENTORY-HDR
045400          GO  TO 000-EXIT.
045500      MOVE DE-CD-NAM-8823-DEC TO INV-HLD.
045600      MOVE INV-NM TO INVENTORY-HDR.
045700  000-VALIDATE-STDI.
045800      MOVE ST-DIST-CD TO DE-CD-8822-DEC.
045900      MOVE 0003 TO DE-NO-8801-DEC.
046000      FIND ANY CODE-DEC.
046100      MOVE DB-STATUS TO DB-STAT.
046200      IF  NOT OK
046300          MOVE "UNKNOWN" TO STATE-HDR
046400          GO  TO 000-EXIT.
046500      GET CODE-DEC.
046600      MOVE DB-STATUS TO DB-STAT.
046700      IF  NOT OK
046800          MOVE "UNKNOWN" TO STATE-HDR
046900          GO  TO 000-EXIT.
047000      FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
047100      MOVE DB-STATUS TO DB-STAT.
047200      IF  NOT OK
047300          MOVE "UNKNOWN" TO STATE-HDR
047400          GO  TO 000-EXIT.
047500      GET CODE-EXPL-DECE.
047600      MOVE DB-STATUS TO DB-STAT.
047700      IF  NOT OK
047800          MOVE "UNKNOWN" TO STATE-HDR
047900          GO  TO 000-EXIT.
048000      MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HLD.
048100      MOVE DE-CD-NAM-8823-DEC TO FUNC-HLD.
048200      MOVE ST-NM-HLD TO STATE-HDR.
048300  000-EXIT.

```

```

048400     EXIT.
048500 000-FINISH.
048600     FINISH DIC-DE.
048700 0400.
048800     READ FIL-I1  AT END
048900         DISPLAY "RECORDS IN = ", IN-CNTR
049000         CLOSE FIL-I1, FIL-P1  STOP RUN.
049100 MOVE REC-I1 TO D11X.  ADD 1 TO IN-CNTR.
049200 IF ADST-CD-T-TRN-NUM-D11H NOT = ADST-CD-T-TRN-NUM-D11X
049300     MOVE ADST-CD-T-TRN-NUM-D11X TO ADST-CD-T-TRN-NUM-D11H
049400     MOVE 1 TO RITE-HDR-FLG, RITE-KEY-FLG  MOVE 52 TO LIN-CHK
049500     MOVE ADST-CD-D11H TO ADST-CD-KL1A
049600     MOVE DIST-CD-D11H TO DIST-CD-KL1A
049700     MOVE PLU-CD-D11H TO PLU-CD-KL1A
049800     MOVE ALLOT-NUM-D11H TO ALLOT-NUM-KL1A
049900     MOVE SWA-CD-D11H TO SWA-CD-KL1A
050000     MOVE TRN-NUM-D11H TO TRN-NUM-KL1A.
050100 IF REC-TYP-D11X = "V2"  GO TO 0900.
050200 IF REC-TYP-D11X = "V3"  MOVE 1 TO SS2A  GO TO 1000.
050300 IF REC-TYP-D11X NOT = "V1"
050400     DISPLAY REC-TYP-T-FMT-CD-D11X
050500     DISPLAY "BAD RECORD TYPE"  CALL "ABOR".
050600 IF FMT-NUM-D11X = "2"  MOVE 1 TO SS1A  GO TO 0600.
050700 IF FMT-NUM-D11X = "3"  MOVE 1 TO SS1A, SS1B  GO TO 0700.
050800 IF FMT-NUM-D11X = "4"  MOVE 1 TO SS1A  GO TO 0800.
050900 IF FMT-NUM-D11X NOT = "1"
051000     DISPLAY "BAD FORMAT NUMBER"  CALL "ABOR".
051100 IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-D11X
051200     MOVE COL-HDRA11 TO COL-HDR2A1
051300     MOVE COL-HDRB11 TO COL-HDR2B1
051400     MOVE COL-HDRC11 TO COL-HDR2C1
051500     MOVE 1 TO RITE-HDR-FLG.
051600 IF SWA-BRWD-D11X NOT = SPACES
051700     MOVE SWA-BRWD-D11X TO SWA-BRWD-DL1A11  GO TO 1300.
051800 MOVE RNG-SITE-ID-D11AX TO RNG-SITE-ID-DL1A11.
051900 MOVE RNG-ECOL-COND-CLS-D11AX TO RNG-ECOL-COND-CLS-DL1A11.
052000 MOVE VEG-SUB-TYP-D11AX TO VEG-SUB-TYP-DL1A11.
052100 MOVE SWA-PCT-D11AX TO SWA-PCT-DL1A11.
052200 MOVE DATA-DAT-D11AX TO DATA-DAT-DL1A11.
052300 MOVE RECER-INTLS-D11AX TO RECER-INTLS-DL1A11.
052400 MOVE PHOTO-ID-D11AX TO PHOTO-ID-DL1A11.
052500 MOVE ADST-CD-CMPR-D11AX TO ADST-CD-CMPR-DL1A11.
052600 MOVE DIST-CD-CMPR-D11AX TO DIST-CD-CMPR-DL1A11.
052700 MOVE TWP-CMPR-D11AX TO TWP-CMPR-DL1A11.
052800 MOVE RNG-CMPR-D11AX TO RNG-CMPR-DL1A11.
052900 MOVE CONS-NUM-CMPR-D11AX TO CONS-NUM-CMPR-DL1A11.
053000 GO TO 1300.
053100 0600.
053200 MOVE PLANT-CD-D12AX (SS1A) TO PLANT-CD-DL1A12 (SS1A).
053300 IF SS1A < 4  ADD 1 TO SS1A  GO TO 0600.
053400 MOVE TYP-GC-CD-D12AX TO TYP-GC-CD-DL1A12.
053500 MOVE TYP-GC-HITS-D12AX TO TYP-GC-HITS-DL1A12.
053600 IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-D11X
053700     MOVE COL-HDRA12 TO COL-HDR2A1
053800     MOVE COL-HDRB12 TO COL-HDR2B1
053900     MOVE COL-HDRC12 TO COL-HDR2C1
054000     MOVE 1 TO RITE-HDR-FLG.  GO TO 1300.

```

```

054100 0700.
054200     MOVE PLANT-CD-D13AX (SS1A, SS1B)
054300         TO PLANT-CD-DL1A13 (SS1A, SS1B).
054400     IF SS1B < 4  ADD 1 TO SS1B  GO TO 0700.
054500     MOVE TYP-GC-HITS-D13AX (SS1A) TO TYP-GC-HITS-DL1A13 (SS1A).
054600     IF SS1A < 2 AND PLANT-CDS-TYP-GC-HITS-D13AX NOT = SPACES
054700         MOVE 2 TO SS1A  MOVE 1 TO SS1B  GO TO 0700.
054800     IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-D11X
054900         MOVE COL-HDRA13 TO COL-HDR2A1
055000         MOVE COL-HDRB13 TO COL-HDR2B1
055100         MOVE COL-HDRC13 TO COL-HDR2C1
055200         MOVE 1 TO RITE-HDR-FLG.  GO TO 1300.
055300 0800.
055400     MOVE SSF-VAL-RAT-D14AX (SS1A) TO SSF-VAL-RAT-DL1A14 (SS1A).
055500     IF SS1A < 7  ADD 1 TO SS1A  GO TO 0800.
055600     IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-D11X
055700         MOVE COL-HDRA14 TO COL-HDR2A1
055800         MOVE COL-HDRB14 TO COL-HDR2B1
055900         MOVE COL-HDRC14 TO COL-HDR2C1
056000         MOVE 1 TO RITE-HDR-FLG.  GO TO 1300.
056100 0900.
056200     MOVE PLOT-SIZ-D21AX TO PLOT-SIZ-DL1A21.
056300     MOVE PLOT-NUM-D21AX TO PLOT-NUM-DL1A21.
056400     MOVE PLANT-CD-D21AX TO PLANT-CD-DL1A21.
056500     MOVE AGE-CLS-PLANT-D21AX TO AGE-CLS-PLANT-DL1A21.
056600     MOVE FORM-CLS-PLANT-D21AX TO FORM-CLS-PLANT-DL1A21.
056700     MOVE PHNO-STG-D21AX TO PHNO-STG-DL1A21.
056800     MOVE CLS-PLANT-AVAIL-D21AX TO CLS-PLANT-AVAIL-DL1A21.
056900     MOVE CLS-PLANT-UTIL-D21AX TO CLS-PLANT-UTIL-DL1A21.
057000     IF AVG-HGT-PLANT-D21AX NOT = SPACES
057100         MOVE AVG-HGT-PLANT-INGR-D21AX
057200             TO AVG-HGT-PLANT-INGR-DL1A21
057300         MOVE "." TO AVG-HGT-PLANT-DEC-DL1A21
057400         MOVE AVG-HGT-PLANT-FRC-D21AX TO AVG-HGT-PLANT-FRC-DL1A21.
057500     MOVE CHARZD-NUM-D21AX TO CHARZD-NUM-DL1A21.
057600     IF AVG-LDR-LGT-D21AX NOT = SPACES
057700         MOVE AVG-LDR-LGT-INGR-D21AX TO AVG-LDR-LGT-INGR-DL1A21
057800         MOVE "." TO AVG-LDR-LGT-DEC-DL1A21
057900         MOVE AVG-LDR-LGT-FRC-D21AX TO AVG-LDR-LGT-FRC-DL1A21.
058000     IF AVG-CRN-DIA-D21AX NOT = SPACES
058100         MOVE AVG-CRN-DIA-INGR-D21AX TO AVG-CRN-DIA-INGR-DL1A21
058200         MOVE "." TO AVG-CRN-DIA-DEC-DL1A21
058300         MOVE AVG-CRN-DIA-FRC-D21AX TO AVG-CRN-DIA-FRC-DL1A21.
058400     MOVE CHARZD-NOT-NUM-D21AX TO CHARZD-NOT-NUM-DL1A21.
058500     MOVE MAST-CROPS-CD-D21AX TO MAST-CROPS-CD-DL1A21.
058600     IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-D11X
058700         MOVE COL-HDRA21 TO COL-HDR2A1
058800         MOVE COL-HDRB21 TO COL-HDR2B1
058900         MOVE COL-HDRC21 TO COL-HDR2C1
059000         MOVE 1 TO RITE-HDR-FLG.  GO TO 1300.
059100 1000.
059200     IF FMT-CD-D11X = "B"  GO TO 1200.
059300     IF FMT-CD-D11X NOT = "A"
059400         DISPLAY "BAD FORMAT CODE"  CALL "ABOR".
059500     MOVE PLOT-TOT-NUM-V3XAX TO PLOT-TOT-NUM-DL1A3A.
059600     IF PLOT-SIZ-EST-V3XAX NOT = SPACES
059700         MOVE PLOT-SIZ-EST-INGR-V3XAX TO PLOT-SIZ-EST-INGR-DL1A3A

```

```

059800         MOVE "." TO PLOT-SIZ-EST-DEC-DL1A3A
059900         MOVE PLOT-SIZ-EST-FRC-V3XAX TO PLOT-SIZ-EST-FRC-DL1A3A.
060000         MOVE PLANT-CD-V3XAX TO PLANT-CD-DL1A3A.
060100         MOVE HGT-CLS-CD-V3XAX TO HGT-CLS-CD-DL1A3A.
060200 1100.
060300         MOVE HRBG-PROD-WGT-V3XAX (SS2A)
060400           TO HRBG-PROD-WGT-DL1A3A (SS2A).
060500         IF SS2A < 10  ADD 1 TO SS2A  GO TO 1100.
060600         MOVE FMT-NUM-D11X TO FMT-NUM-DL1A.
060700         IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-D11X
060800           MOVE COL-HDRA3A TO COL-HDR2A1
060900           MOVE COL-HDRB3A TO COL-HDR2B1
061000           MOVE COL-HDRC3A TO COL-HDR2C1
061100           MOVE 1 TO RITE-HDR-FLG.  GO TO 1300.
061200 1200.
061300         MOVE GRP-V3XBX (SS2A) TO GRP2-DL1A3B (SS2A).
061400         IF SS2A < 10  ADD 1 TO SS2A  GO TO 1200.
061500         MOVE PLOT-TOT-NUM-V3XBX TO PLOT-TOT-NUM-DL1A3B.
061600         IF PLOT-SIZ-EST-V3XBX NOT = SPACES
061700           MOVE PLOT-SIZ-EST-INGR-V3XBX TO PLOT-SIZ-EST-INGR-DL1A3B
061800           MOVE "." TO PLOT-SIZ-EST-DEC-DL1A3B
061900           MOVE PLOT-SIZ-EST-FRC-V3XBX TO PLOT-SIZ-EST-FRC-DL1A3B.
062000         MOVE PLANT-CD-V3XBX TO PLANT-CD-DL1A3B.
062100         MOVE HGT-CLS-CD-V3XBX TO HGT-CLS-CD-DL1A3B.
062200         MOVE FMT-NUM-D11X TO FMT-NUM-DL1A.
062300         IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-D11X
062400           MOVE COL-HDRA3B TO COL-HDR2A1
062500           MOVE COL-HDRB3B TO COL-HDR2B1
062600           MOVE COL-HDRC3B TO COL-HDR2C1
062700           MOVE 1 TO RITE-HDR-FLG.
062800 1300.
062900         MOVE REC-TYP-T-FMT-CD-D11X
063000           TO REC-TYP-T-FMT-CD-DL1A.
063100         MOVE ACTN-CD-D11X TO ACTN-CD-DL1A.
063200         MOVE LIN-NUM-D11X TO LIN-NUM-DL1A.
063300 1400.
063400         MOVE ZERO TO LIN-CNTR.
063500         IF RITE-HDR-FLG NOT ZERO  ADD 4 TO LIN-CNTR.
063600         IF RITE-KEY-FLG NOT ZERO  ADD 6 TO LIN-CNTR.
063700         ADD 2 TO LIN-CNTR.  ADD LIN-CNTR TO LIN-CHK.
063800         IF LIN-CHK > 52  ADD 1 TO PAG-CNTR
063900           MOVE PAG-CNTR TO PAG-CNT-PH1  MOVE ZERO TO LIN-CHK
064000           MOVE 1 TO RITE-HDR-FLG, RITE-KEY-FLG
064100           MOVE PAG-HDR1 TO REC-P1
064200           WRITE REC-P1 AFTER ADVANCING PAGE
064300           MOVE PAG-HDR2 TO REC-P1
064400           WRITE REC-P1 AFTER ADVANCING 2 LINES
064500           MOVE SPACES TO REC-P1  WRITE REC-P1  GO TO 1400.
064600         IF RITE-KEY-FLG ZERO  GO TO 1500.
064700         MOVE ZERO TO RITE-KEY-FLG.
064800         MOVE COL-HDR1A TO REC-P1.
064900         WRITE REC-P1 AFTER ADVANCING 2 LINES.
065000         MOVE COL-HDR1B TO REC-P1.  WRITE REC-P1.
065100         MOVE COL-HDR1C TO REC-P1.  WRITE REC-P1.
065200         MOVE KEY-LIN1A TO REC-P1.
065300         WRITE REC-P1 AFTER ADVANCING 2 LINES.
065400 1500.

```

```

065500     IF RITE-HDR-FLG NOT ZERO
065600         MOVE ZERO TO RITE-HDR-FLG
065700         MOVE COL-HDR2A TO REC-P1
065800         WRITE REC-P1 AFTER ADVANCING 2 LINES
065900         MOVE COL-HDR2B TO REC-P1  WRITE REC-P1
066000         MOVE COL-HDR2C TO REC-P1  WRITE REC-P1.
066100     MOVE DATA-LIN1A TO REC-P1.
066200     WRITE REC-P1 AFTER ADVANCING 2 LINES.
066300     MOVE SPACES TO DATA-LIN1A11.  GO TO 0400.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES030E.
000300*         VEGETATIVE EDIT AND ERROR LIST
000400*
000500 AUTHOR. CHUCK SLIZEWSKI.
000600 DATE-WRITTEN. 01/10/79.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400     SELECT FIL-I1     ASSIGN TO I1
001500         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600     SELECT FIL-D1     ASSIGN TO D1
001700         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800     SELECT FIL-P1     ASSIGN TO P1
001900         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000 DATA DIVISION.
002100 SUB-SCHEMA SECTION.
002200 DB CODVAL2 WITHIN BLMDIC.
002300 FILE SECTION.
002400 FD FIL-I1
002500     CODE-SET IS GBCD
002600     LABEL RECORDS ARE STANDARD
002700     DATA RECORD IS REC-I1.
002800 01 REC-I1.
002900     03 FILLER     PIC X(8).
003000     03 SDP-I1     PIC X(6).
003100     03 FILLER     PIC X(130).
003200 FD FIL-D1
003300     CODE-SET IS GBCD
003400     LABEL RECORDS ARE STANDARD
003500     DATA RECORD IS REC-D1.
003600 01 REC-D1 PIC X(144).
003700 FD FIL-P1
003800     CODE-SET IS GBCD
003900     LABEL RECORDS ARE STANDARD
004000     DATA RECORD IS REC-P1.
004100 01 REC-P1 PIC X(132).
004200 WORKING-STORAGE SECTION.
004300 77 CNT-BAD-TYPE          PIC 9(6) VALUE ZERO.
004400 77 CNT-BAD-FORM          PIC 9(6) VALUE ZERO.
004500 77 CNT-BAD-CODE          PIC 9(6) VALUE ZERO.
004600 77 CNT-V1                PIC 9(6) VALUE ZERO.
004700 77 CNT-V2                PIC 9(6) VALUE ZERO.

```

```

004800 77 CNT-V3 PIC 9(6) VALUE ZERO.
004900 77 CNT-BAD-PU PIC 9(6) VALUE ZERO.
005000 77 CNT-BAD-ALOT PIC 9(6) VALUE ZERO.
005100 77 DATA-FLG PIC 9 COMP-4 VALUE ZERO.
005200 77 PLT-HLD PIC X(7) VALUE SPACE.
005300 77 PLT-SRC PIC X(7) VALUE SPACE.
005400 77 FRC-FLG PIC 9 COMP-4.
005500 77 IN-CNTR PIC 9(6) COMP-4 VALUE ZERO.
005600 77 INGR-FLG PIC 9 COMP-4.
005700 77 KEY-FLG PIC 9 COMP-4.
005800 77 LIN-CHK PIC 99 COMP-4.
005900 77 LIN-CNT PIC 99 COMP-4.
006000 77 LIN-NUM-H PIC 999.
006100 77 OT-CNTR PIC 9(6) COMP-4 VALUE ZERO.
006200 77 PAG-CNT PIC 999 COMP-4.
006300 77 PLANT-CD-FLG PIC 9 COMP-4.
006400 77 PT-CNTR PIC 9(6) COMP-4 VALUE ZERO.
006500 77 RITE-HDR-FLG PIC 9 COMP-4.
006600 77 RITE-KEY-FLG PIC 9 COMP-4.
006700 77 SS1A PIC 9 COMP-4.
006800 77 SS1B PIC 9 COMP-4.
006900 77 SS1C PIC 9 COMP-4.
007000 77 SS1D PIC 9 COMP-4.
007100 77 SS2A PIC 99 COMP-4.
007200 77 PLT-SUB PIC 9(6) VALUE ZERO.
007300 01 PLT-TABLE.
007400 03 PLT-TB PIC X(7) OCCURS 200 TIMES.
007500 01 PLT-TABLE-2.
007600 03 PLT-CNT PIC 999 OCCURS 200 TIMES.
007700 01 COL-HDR1A.
007800 03 FILLER PIC X(24) VALUE " ST DIST PL".
007900 03 FILLER PIC X(24) VALUE "U ALLOT SWA TRN ".
008000 03 FILLER PIC X(84) VALUE SPACES.
008100 01 COL-HDR1B.
008200 03 FILLER PIC X(24) VALUE " 9-10 11-12 13-".
008300 03 FILLER PIC X(24) VALUE "14 15-18 19-22 23-24".
008400 03 FILLER PIC X(84) VALUE SPACES.
008500 01 COL-HDR1C.
008600 03 FILLER PIC X(24) VALUE " XX XX XX".
008700 03 FILLER PIC X(24) VALUE " XXXX XXXX XX ".
008800 03 FILLER PIC X(84) VALUE SPACES.
008900 01 COL-HDRA11 PIC X(108) VALUE "O SWA/T RNG SITE CC VEG S
009000- "-TYP % SWA DATE RECR A/PHOTO
009100- "CMPR: ST DIST TWP RNG NUM ".
009200 01 COL-HDRB11 PIC X(108) VALUE "30-35 45-55 56 57-
009300- "60 61-63 64-69 70-72 73-88
009400- " 89-90 91-92 93-97 98-102 103-104 ".
009500 01 COL-HDRC11 PIC X(108) VALUE "XXXXXX XXXXXXXXXXXXX X XXX
009600- "X XXX XXXXXX XXX XXXXXXXXXXXXXXXX
009700- "XXX XX XX XXXXX XXXXX XX ".
009800 01 COL-HDRA12 PIC X(108) VALUE "GRND CVR BASAL NUM - - -
009900- " - O B S E R V E D S P E C I E S- - -
010000- " - ".
010100 01 COL-HDRB12 PIC X(108) VALUE " DATA: 45 46-48 49-55
010200- " 56-62 63-69 70-7
010300- "6 ".
010400 01 COL-HDRC12 PIC X(108) VALUE " X XXX XXXXXXXX

```



```

010500-          "          XXXXXXXX          XXXXXXXX          XXXXXX
010600-          "XX
010700 01 COL-HDRA13 PIC X(108) VALUE " BASAL CANOPY 1 CANOPY 2
010800-          " CANOPY 3 NUM BASAL CANOPY 1
010900-          " CANOPY 2 CANOPY 3 NUM
011000 01 COL-HDRB13 PIC X(108) VALUE " 45-53 54-62 63-71
011100-          " 72-80 81-83 84-92 93-101
011200-          " 102-110 111-119 120-122
011300 01 COL-HDRC13 PIC X(108) VALUE "XXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX
011400-          "X XXXXXXXXXXXX XXX XXXXXXXXXXXX XXXXXXXXXXXX
011500-          "X XXXXXXXXXXXX XXXXXXXXXXXX XXX
011600 01 COL-HDRA14 PIC X(108) VALUE "SOIL MVMT SOIL LITR SURF ROC
011700-          "K PEDESTALL FLOW PTRN RILLS GUL
011800-          "LIES
011900 01 COL-HDRB14 PIC X(108) VALUE " 45-46 47-48 49-50
012000-          " 51-52 53-54 55-56 57
012100-          "-58
012200 01 COL-HDRC14 PIC X(108) VALUE " XX XX XX
012300-          " XX XX XX X
012400-          "X
012500 01 COL-HDRA21 PIC X(108) VALUE "SIZ/PLOT/NUM SPECIES AGE/CL
012600-          "ASS/Form PHNO AVAIL UTIL HGT D/CNT
012700-          " L/LGT CROWN DIA N/CHARZD M/CROPS ".
012800 01 COL-HDRB21 PIC X(108) VALUE "45 46-47 48-54 55
012900-          " 56 57 58 59 60-64 65-67
013000-          " 68-72 73-77 78-80 81 ".
013100 01 COL-HDRC21 PIC X(108) VALUE " X XX XXXXXXXX X
013200-          " X X X X XXX XX XXX
013300-          " XXX XX XXX XX XXX X ".
013400 01 COL-HDRA3B PIC X(108) VALUE "NUM/PLOT/SIZ SPECIES HGT WE
013500-          " 1 2 3 4 5
013600-          " 6 7 8 9 10 ".
013700 01 COL-HDRB3B PIC X(108) VALUE "45-46 47-53 54-60 61 D: 6
013800-          "2-68 69-75 76-82 83-89 90-96 97
013900-          "-103 104-110 111-117 118-124 125-131 ".
014000 01 COL-HDRC3B PIC X(108) VALUE " XX XXXXX XX XXXXXXXX X XX
014100-          "XXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XX
014200-          "XXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX ".
014300 01 COL-HDR2A.
014400 03 FILLER PIC X(24) VALUE "REC TYP ACTN LIN NUM ".
014500 03 COL-HDR2A1 PIC X(108).
014600 01 COL-HDR2B.
014700 03 FILLER PIC X(24) VALUE " 5-8 25 26-28 ".
014800 03 COL-HDR2B1 PIC X(108).
014900 01 COL-HDR2C.
015000 03 FILLER PIC X(24) VALUE " XXXX X XXX ".
015100 03 COL-HDR2C1 PIC X(108).
015200 01 DATA-LIN1A VALUE SPACES.
015300 03 FILLER PIC X.
015400 03 REC-TYP-T-FMT-CD-DL1A.
015500 05 FILLER PIC XX.
015600 05 FMT-NUM-DL1A PIC X.
015700 05 FILLER PIC X.
015800 03 FILLER PIC X(5).
015900 03 ACTN-CD-DL1A PIC X.
016000 03 FILLER PIC X(6).
016100 03 LIN-NUM-DL1A PIC XXX.

```

016200 03 FILLER PIC XXXX.  
016300 03 DATA-LIN1A11.  
016400 05 SWA-BRWD-DL1A11 PIC X(6).  
016500 05 FILLER PIC XX.  
016600 05 RNG-SITE-ID-DL1A11 PIC X(11).  
016700 05 FILLER PIC XX.  
016800 05 RNG-ECOL-COND-CLS-DL1A11 PIC X.  
016900 05 FILLER PIC X(5).  
017000 05 VEG-SUB-TYP-DL1A11 PIC XXXX.  
017100 05 FILLER PIC X(6).  
017200 05 SWA-PCT-DL1A11 PIC XXX.  
017300 05 FILLER PIC XXX.  
017400 05 DATA-DAT-DL1A11 PIC X(6).  
017500 05 FILLER PIC XXX.  
017600 05 RECER-INTLS-DL1A11 PIC XXX.  
017700 05 FILLER PIC XX.  
017800 05 PHOTO-ID-DL1A11 PIC X(16).  
017900 05 FILLER PIC XXX.  
018000 05 ADST-CD-CMPR-DL1A11 PIC XX.  
018100 05 FILLER PIC XXXX.  
018200 05 DIST-CD-CMPR-DL1A11 PIC XX.  
018300 05 FILLER PIC XXX.  
018400 05 TWP-CMPR-DL1A11 PIC X(5).  
018500 05 FILLER PIC X.  
018600 05 RNG-CMPR-DL1A11 PIC X(5).  
018700 05 FILLER PIC XXXX.  
018800 05 CONS-NUM-CMPR-DL1A11 PIC XX.  
018900 05 FILLER PIC XXXX.  
019000 03 DATA-LIN1A12 REDEFINES DATA-LIN1A11.  
019100 05 FILLER PIC X(10).  
019200 05 TYP-GC-CD-DL1A12 PIC X.  
019300 05 FILLER PIC X(5).  
019400 05 TYP-GC-HITS-DL1A12 PIC XXX.  
019500 05 FILLER PIC XXXX.  
019600 05 GRP-DL1A12 OCCURS 4 TIMES.  
019700 07 PLANT-CD-DL1A12 PIC X(7).  
019800 07 FILLER PIC X(7).  
019900 05 FILLER PIC X(29).  
020000 03 DATA-LIN1A13 REDEFINES DATA-LIN1A11.  
020100 05 GRP1-DL1A13 OCCURS 2 TIMES.  
020200 07 GRP2-DL1A13 OCCURS 4 TIMES.  
020300 09 PLANT-CD-DL1A13 PIC X(9).  
020400 09 FILLER PIC XX.  
020500 07 TYP-GC-HITS-DL1A13 PIC XXX.  
020600 07 FILLER PIC XXXX.  
020700 05 FILLER PIC X(6).  
020800 03 DATA-LIN1A14 REDEFINES DATA-LIN1A11.  
020900 05 FILLER PIC XXX.  
021000 05 GRP-DL1A14 OCCURS 7 TIMES.  
021100 07 SSF-VAL-RAT-DL1A14 PIC XX.  
021200 07 FILLER PIC X(9).  
021300 05 FILLER PIC X(28).  
021400 03 DATA-LIN1A21 REDEFINES DATA-LIN1A11.  
021500 05 FILLER PIC X.  
021600 05 PLOT-SIZ-DL1A21 PIC X.  
021700 05 FILLER PIC X(7).  
021800 05 PLOT-NUM-DL1A21 PIC XX.

```

021900      05  FILLER  PIC XXXX.
022000      05  PLANT-CD-DL1A21  PIC X(7).
022100      05  FILLER  PIC XXX.
022200      05  AGE-CLS-PLANT-DL1A21  PIC X.
022300      05  FILLER  PIC X(9).
022400      05  FORM-CLS-PLANT-DL1A21  PIC X.
022500      05  FILLER  PIC X(5).
022600      05  PHNO-STG-DL1A21  PIC X.
022700      05  FILLER  PIC X(6).
022800      05  CLS-PLANT-AVAIL-DL1A21  PIC X.
022900      05  FILLER  PIC X(5).
023000      05  CLS-PLANT-UTIL-DL1A21  PIC X.
023100      05  FILLER  PIC XXX.
023200      05  AVG-HGT-PLANT-INGR-DL1A21  PIC XXX.
023300      05  AVG-HGT-PLANT-DEC-DL1A21  PIC X.
023400      05  AVG-HGT-PLANT-FRC-DL1A21  PIC XX.
023500      05  FILLER  PIC XX.
023600      05  CHARZD-NUM-DL1A21  PIC XXX.
023700      05  FILLER  PIC XXX.
023800      05  AVG-LDR-LGT-INGR-DL1A21  PIC XXX.
023900      05  AVG-LDR-LGT-DEC-DL1A21  PIC X.
024000      05  AVG-LDR-LGT-FRC-DL1A21  PIC XX.
024100      05  FILLER  PIC XXX.
024200      05  AVG-CRN-DIA-INGR-DL1A21  PIC XXX.
024300      05  AVG-CRN-DIA-DEC-DL1A21  PIC X.
024400      05  AVG-CRN-DIA-FRC-DL1A21  PIC XX.
024500      05  FILLER  PIC X(5).
024600      05  CHARZD-NOT-NUM-DL1A21  PIC XXX.
024700      05  FILLER  PIC X(8).
024800      05  MAST-CROPS-CD-DL1A21  PIC X.
024900      05  FILLER  PIC XXXX.
025000      03  DATA-LIN1A3B  REDEFINES  DATA-LIN1A11.
025100      05  FILLER  PIC X.
025200      05  PLOT-TOT-NUM-DL1A3B  PIC XX.
025300      05  FILLER  PIC X.
025400      05  PLOT-SIZ-EST-INGR-DL1A3B  PIC X(5).
025500      05  PLOT-SIZ-EST-DEC-DL1A3B  PIC X.
025600      05  PLOT-SIZ-EST-FRC-DL1A3B  PIC XX.
025700      05  FILLER  PIC X.
025800      05  PLANT-CD-DL1A3B  PIC X(7).
025900      05  FILLER  PIC XX.
026000      05  HGT-CLS-CD-DL1A3B  PIC X.
026100      05  FILLER  PIC X(5).
026200      05  GRP1-DL1A3B  OCCURS 10 TIMES.
026300      07  GRP2-DL1A3B  PIC X(7).
026400      07  FILLER  PIC X.
026500      01  DATA-LIN1B  VALUE SPACES.
026600      03  FILLER  PIC X(17).
026700      03  DATA-LIN1B11.
026800      05  LIN-NUM-DL1B  PIC XXX.
026900      05  FILLER  PIC XXXX.
027000      05  SWA-CD-BRWD-DL1B11  PIC X.
027100      05  SWA-NUM-BRWD-DL1B11  PIC XXX.
027200      05  TRN-NUM-BRWD-DL1B11  PIC XX.
027300      05  FILLER  PIC XX.
027400      05  RNG-SITE-ID-DL1B11  PIC X(11).
027500      05  FILLER  PIC XX.

```

```

027600      05  RNG-ECOL-COND-CLS-DL1B11  PIC X.
027700      05  FILLER  PIC X(5).
027800      05  VEG-SUB-TYP-DL1B11  PIC XXXX.
027900      05  FILLER  PIC X(6).
028000      05  SWA-PCT-DL1B11  PIC XXX.
028100      05  FILLER  PIC XXX.
028200      05  DATA-DAT-DL1B11.
028300          07  DATA-YER-DL1B11  PIC XX.
028400          07  DATA-MON-DL1B11  PIC XX.
028500          07  DATA-DAY-DL1B11  PIC XX.
028600      05  FILLER  PIC XXX.
028700      05  RECER-INTLS-DL1B11  PIC XXX.
028800      05  FILLER  PIC XX.
028900      05  PHOTO-ID-DL1B11  PIC X(16).
029000      05  FILLER  PIC XXX.
029100      05  ADST-CD-CMPR-DL1B11  PIC XX.
029200      05  FILLER  PIC XXXX.
029300      05  DIST-CD-CMPR-DL1B11  PIC XX.
029400      05  FILLER  PIC XXX.
029500      05  TWP-CMPR-DL1B11  PIC X(5).
029600      05  FILLER  PIC X.
029700      05  RNG-CMPR-DL1B11  PIC X(5).
029800      05  FILLER  PIC XXXX.
029900      05  CONS-NUM-CMPR-DL1B11  PIC XX.
030000      05  FILLER  PIC XXXX.
030100      03  DATA-LIN1B12 REDEFINES DATA-LIN1B11.
030200          05  FILLER  PIC X(17).
030300          05  TYP-GC-CD-DL1B12  PIC X.
030400          05  FILLER  PIC X(5).
030500          05  TYP-GC-HITS-DL1B12  PIC XXX.
030600          05  FILLER  PIC XXXX.
030700          05  GRP-DL1B12  OCCURS 4 TIMES.
030800              07  PLANT-CD-DL1B12  PIC X(7).
030900              07  FILLER  PIC X(7).
031000          05  FILLER  PIC X(29).
031100      03  DATA-LIN1B13 REDEFINES DATA-LIN1B11.
031200          05  FILLER  PIC X(7).
031300          05  GRP1-DL1B13  OCCURS 2 TIMES.
031400              07  GRP2-DL1B13  OCCURS 4 TIMES.
031500                  09  PLANT-CD-DL1B13  PIC X(9).
031600                  09  FILLER  PIC XX.
031700              07  TYP-GC-HITS-DL1B13  PIC XXX.
031800              07  FILLER  PIC XXXX.
031900          05  FILLER  PIC X(6).
032000      03  DATA-LIN1B14 REDEFINES DATA-LIN1B11.
032100          05  FILLER  PIC X(10).
032200          05  GRP-DL1B14  OCCURS 7 TIMES.
032300              07  SSF-VAL-RAT-DL1B14  PIC XX.
032400              07  FILLER  PIC X(9).
032500          05  FILLER  PIC X(28).
032600      03  DATA-LIN1B21 REDEFINES DATA-LIN1B11.
032700          05  FILLER  PIC X(8).
032800          05  PLOT-SIZ-DL1B21  PIC X.
032900          05  FILLER  PIC X(7).
033000          05  PLOT-NUM-DL1B21  PIC XX.
033100          05  FILLER  PIC XXXX.
033200          05  PLANT-CD-DL1B21  PIC X(7).

```

033300 05 FILLER PIC XXX.  
033400 05 AGE-CLS-PLANT-DL1B21 PIC X.  
033500 05 FILLER PIC X(9).  
033600 05 FORM-CLS-PLANT-DL1B21 PIC X.  
033700 05 FILLER PIC X(5).  
033800 05 PHNO-STG-DL1B21 PIC X.  
033900 05 FILLER PIC X(6).  
034000 05 CLS-PLANT-AVAIL-DL1B21 PIC X.  
034100 05 FILLER PIC X(5).  
034200 05 CLS-PLANT-UTIL-DL1B21 PIC X.  
034300 05 FILLER PIC XXX.  
034400 05 AVG-HGT-PLANT-INGR-DL1B21 PIC XXX.  
034500 05 FILLER PIC X.  
034600 05 AVG-HGT-PLANT-FRC-DL1B21 PIC XX.  
034700 05 FILLER PIC XX.  
034800 05 CHARZD-NUM-DL1B21 PIC XXX.  
034900 05 FILLER PIC XXX.  
035000 05 AVG-LDR-LGT-INGR-DL1B21 PIC XXX.  
035100 05 FILLER PIC X.  
035200 05 AVG-LDR-LGT-FRC-DL1B21 PIC XX.  
035300 05 FILLER PIC XXX.  
035400 05 AVG-CRN-DIA-INGR-DL1B21 PIC XXX.  
035500 05 FILLER PIC X.  
035600 05 AVG-CRN-DIA-FRC-DL1B21 PIC XX.  
035700 05 FILLER PIC X(5).  
035800 05 CHARZD-NOT-NUM-DL1B21 PIC XXX.  
035900 05 FILLER PIC X(8).  
036000 05 MAST-CROPS-CD-DL1B21 PIC X.  
036100 05 FILLER PIC XXXX.  
036200 03 DATA-LIN1B3B REDEFINES DATA-LIN1B11.  
036300 05 FILLER PIC X(8).  
036400 05 PLOT-TOT-NUM-DL1B3B PIC XX.  
036500 05 FILLER PIC X.  
036600 05 PLOT-SIZ-EST-INGR-DL1B3B PIC X(5).  
036700 05 FILLER PIC X.  
036800 05 PLOT-SIZ-EST-FRC-DL1B3B PIC XX.  
036900 05 FILLER PIC X.  
037000 05 PLANT-CD-DL1B3B PIC X(7).  
037100 05 FILLER PIC XX.  
037200 05 HGT-CLS-CD-DL1B3B PIC X.  
037300 05 FILLER PIC X(5).  
037400 05 GRP1-DL1B3B OCCURS 10 TIMES.  
037500 07 CLS-PLANT-AVAIL-DL1B3B PIC X.  
037600 07 PHNO-STG-DL1B3B PIC X.  
037700 07 CLS-PLANT-UTIL-DL1B3B PIC X.  
037800 07 HRBG-PROD-WGT-DL1B3B PIC XXXX.  
037900 07 FILLER PIC X.  
038000 01 HOLD-AREA.  
038100 03 ADST-CD-T-ACTN-CD-V11H.  
038200 05 ADST-CD-T-TRN-NUM-V11H.  
038300 07 ADST-DIST-PLU-CDS-V11H.  
038400 09 ADST-CD-V11H PIC XX VALUE SPACES.  
038500 09 DIST-CD-V11H PIC XX.  
038600 09 PLU-CD-V11H PIC XX.  
038700 07 ALLOT-NUM-T-TRN-NUM-V11H.  
038800 09 ALLOT-NUM-V11H PIC XXXX.  
038900 09 SWA-V11H.

039000                   11 SWA-CD-V11H PIC X.  
039100                   11 SWA-NUM-V11H PIC XXX.  
039200                   09 TRN-NUM-V11H PIC XX.  
039300                   05 REC-TYP-T-FMT-CD-V11H PIC XXXX.  
039400                   05 ACTN-CD-V11H PIC X.  
039500           03 ADST-CD-T-ACTN-CD-V11X-H PIC X(21).  
039600           03 ADST-DIST-RA-PLU-CDS-H.  
039700                   05 ADST-DIST-CDS-H.  
039800                   07 ADST-CD-H PIC XX.  
039900                   07 DIST-CD-H PIC XX.  
040000                   05 RA-CD-H.  
040100                   07 RA-CD-C1-H PIC 9.  
040200                   07 FILLER PIC 9 VALUE 8.  
040300                   05 PLU-CD-H PIC XX.  
040400           03 DE-CD-EXPLN-8827-DECE-H.  
040500                   05 DIST-NAM-H PIC X(12).  
040600                   05 RA-NAM-H PIC X(13).  
040700                   05 PLU-NAM-H PIC X(15).  
040800           03 CODE-DEC-H.  
040900                   05 FILLER PIC XXXX.  
041000                   05 PLANT-CD-H PIC X(7).  
041100                   05 FILLER PIC X(24).  
041200                   05 PLANT-TYP-H PIC X.  
041300           03 DE-CD-NAM-8823-DEC-H.  
041400                   05 ST-NAM-H PIC X(10).  
041500                   05 FILLER PIC X(14).  
041600           03 DAT-H.  
041700                   05 YER-H PIC XX.  
041800                   05 MON-H PIC 99.  
041900                   05 DAY-H PIC XX.  
042000           03 GRP-V3XBX-H.  
042100                   05 CLS-PLANT-AVAIL-V3XBX-H PIC X.  
042200                   05 PHNO-STG-V3XBX-H PIC X.  
042300                   05 CLS-PLANT-UTIL-V3XBX-H PIC X.  
042400                   05 HRBG-PROD-WGT-V3XBX-H PIC XXXX.  
042500           03 INGR-3C-FRC-2C-H PIC 999V99.  
042600           03 I3F2-H REDEFINES INGR-3C-FRC-2C-H.  
042700                   05 INGR-3C-FRC-1C-H PIC 999V9.  
042800                   05 I3F1-H REDEFINES INGR-3C-FRC-1C-H.  
042900                   07 FILLER PIC X.  
043000                   07 INGR-2C-FRC-1C-H PIC 99V9.  
043100                   05 FILLER PIC X.  
043200           03 INGR-FRC-H REDEFINES INGR-3C-FRC-2C-H.  
043300                   05 INGR-H PIC XXX.  
043400                   05 FRC-H PIC XX.  
043500           03 PLANT-CD-V13AX-H.  
043600                   05 PLANT-CD-C1-V13AX-H PIC X.  
043700                   05 PLANT-CD-LST-8C-V13AX-H PIC X(8).  
043800           03 PC-V13AX-H REDEFINES PLANT-CD-V13AX-H.  
043900                   05 PLANT-CD-1ST-8C-V13AX-H PIC X(8).  
044000                   05 FILLER PIC X.  
044100           03 1C-PLANT-CD-V13AX-H REDEFINES PLANT-CD-V13AX-H  
044200                   PIC X OCCURS 9 TIMES.  
044300           03 PLANT-CD-V13AZ-H.  
044400                   05 PLANT-CD-1ST-7C-V13AZ-H.  
044500                   07 PLANT-CD-C1-V13AZ-H PIC X.  
044600                   07 PLANT-CD-C2T7-V13AZ-H PIC X(6).

044700 05 1C-PLANT-CD-V13AZ-H REDEFINES  
044800 PLANT-CD-1ST-7C-V13AZ-H PIC X OCCURS 7 TIMES.  
044900 05 LEV-TRN-HIT-V13AZ-H PIC X.  
045000 05 FILLER PIC X.  
045100 03 PLOT-SIZ-EST-V3XBH-H.  
045200 05 FILLER PIC XX.  
045300 05 PLOT-SIZ-EST-D3XBZ-H PIC 999V99.  
045400 05 PLOT-SIZ-C3T7-V3XBH-H REDEFINES  
045500 PLOT-SIZ-EST-D3XBZ-H.  
045600 07 PLOT-SIZ-C3T5-V3XBH-H PIC XXX.  
045700 07 PLOT-SIZ-C6T7-V3XBH-H PIC XX.  
045800 03 SSF-VAL-RAT-V14AX-H PIC XX.  
045900 03 TYP-GC-HITS-V13AX-H PIC XXX.  
046000 03 1C-PLANT-CD-H PIC X.  
046100 01 KEY-LIN1A.  
046200 03 FILLER PIC X(10) VALUE SPACES.  
046300 03 ADST-CD-KL1A PIC XX.  
046400 03 FILLER PIC XXXX VALUE SPACES.  
046500 03 DIST-CD-KL1A PIC XX.  
046600 03 FILLER PIC XXXX VALUE SPACES.  
046700 03 PLU-CD-KL1A PIC XX.  
046800 03 FILLER PIC XXXX VALUE SPACES.  
046900 03 ALLOT-NUM-KL1A PIC XXXX.  
047000 03 FILLER PIC XXXX VALUE SPACES.  
047100 03 SWA-KL1A PIC XXXX.  
047200 03 FILLER PIC XXXX VALUE SPACES.  
047300 03 TRN-NUM-KL1A PIC XX.  
047400 03 FILLER PIC X(86) VALUE SPACES.  
047500 01 KEY-LIN1B.  
047600 03 FILLER PIC X(10) VALUE SPACES.  
047700 03 KEY-LIN1B1.  
047800 05 ADST-CD-KL1B PIC XX.  
047900 05 FILLER PIC XXXX.  
048000 05 DIST-CD-KL1B PIC XX.  
048100 05 FILLER PIC XXXX.  
048200 05 PLU-CD-KL1B PIC XX.  
048300 03 FILLER PIC XXXX VALUE SPACES.  
048400 03 KEY-LIN1B2.  
048500 05 ALLOT-NUM-KL1B PIC XXXX.  
048600 05 FILLER PIC XXXX.  
048700 05 SWA-CD-KL1B PIC X.  
048800 05 SWA-NUM-KL1B PIC XXX.  
048900 05 FILLER PIC XXXX.  
049000 05 TRN-NUM-KL1B PIC XX.  
049100 03 FILLER PIC X(86) VALUE SPACES.  
049200 01 LTRL-AREA.  
049300 03 10ASTRKS-L VALUE ALL "\*".  
049400 05 09ASTRKS-L.  
049500 07 07ASTRKS-L.  
049600 09 06ASTRKS-L.  
049700 11 05ASTRKS-L.  
049800 13 04ASTRKS-L.  
049900 15 03ASTRKS-L.  
050000 17 02ASTRKS-L.  
050100 19 01ASTRK-L PIC X.  
050200 19 FILLER PIC X.  
050300 17 FILLER PIC X.

```

050400          15 FILLER PIC X.
050500          13 FILLER PIC X.
050600          11 FILLER PIC X.
050700          09 FILLER PIC X.
050800          07 FILLER PIC XX.
050900          05 FILLER PIC X.
051000 01 PAG-HDR1.
051100 03 FILLER PIC X(24) VALUE " PCN: AS OF ".
051200 03 DAY-PH1 PIC XX.
051300 03 FILLER PIC X VALUE SPACE.
051400 03 MON-PH1 PIC XXX.
051500 03 FILLER PIC X VALUE SPACE.
051600 03 YER-PH1 PIC XX.
051700 03 FILLER PIC X(09) VALUE SPACES.
051800 03 FILLER PIC X(48) VALUE "USDI- BUR OF LAND MGT ECOLOGIC
051900-          "AL SITE INVENTORY".
052000 03 FILLER PIC X(29) VALUE SPACES.
052100 03 FILLER PIC X(6) VALUE "PAGE: ".
052200 03 PAG-CNT-PH1 PIC ZZ9.
052300 03 FILLER PIC XXXX VALUE SPACES.
052400 01 PAG-HDR2.
052500 03 FILLER PIC X(11) VALUE " STATE: ".
052600 03 ADST-NAM-PH2 PIC X(10).
052700 03 FILLER PIC X(17) VALUE " RES AREA: ".
052800 03 RA-CD-PH2 PIC XX.
052900 03 FILLER PIC X VALUE SPACE.
053000 03 RA-NAM-PH2 PIC X(13).
053100 03 FILLER PIC X(78) VALUE SPACES.
053200 01 PAG-HDR3.
053300 03 FILLER PIC X(11) VALUE " DIST: ".
053400 03 DIST-NAM-PH3 PIC X(12).
053500 03 FILLER PIC X(15) VALUE " PLNG UT: ".
053600 03 PLU-CD-PH3 PIC XX.
053700 03 FILLER PIC X VALUE SPACE.
053800 03 PLU-NAM-PH3 PIC X(15).
053900 03 FILLER PIC X(76) VALUE SPACES.
054000 01 PAG-HDR4.
054100 03 FILLER PIC X(50) VALUE SPACES.
054200 03 FILLER PIC X(33) VALUE "V1, V2, AND V3 EDIT ERROR LISTI
054300-          "NG".
054400 03 FILLER PIC X(49) VALUE SPACES.
054500 01 PAG-HDR5.
054600 03 FILLER PIC X(17) VALUE SPACES.
054700 03 FILLER PIC X(97) VALUE "KEY COMMON DATA (1-44) IN ALL R
054800-          "ECORDS. IF ERROR IN COMMON DATA (
054900-          "9-24), KEY ALL RECORDS IN SWA/T.".
055000 03 FILLER PIC X(18) VALUE SPACES.
055100 01 PAG-HDR6.
055200 03 FILLER PIC X(17) VALUE SPACES.
055300 03 FILLER PIC X(99) VALUE "IF ERROR IN OTHER COMMON DATA,
055400-          "KEY ALL OF THE RECORD - ELSE KEY AS
055500-          "TERISK AND RED CORRECTION FIELDS.".
055600 03 FILLER PIC X(16) VALUE SPACES.
055700 01 TABL-AREA.
055800 03 MON-V PIC X(36) VALUE "JANFEBMARAPRMAYJUNJULAUGSEPOCT
055900-          "NOVDEC".
056000 03 MON-T REDEFINES MON-V PIC XXX OCCURS 12 TIMES.

```



056100 03 SSF-VAL-RAT-V PIC X(14) VALUE "14141414151415".  
056200 03 SSF-VAL-RAT-T REDEFINES SSF-VAL-RAT-V  
056300 PIC XX OCCURS 7 TIMES.  
056400 01 V11X.  
056500 03 BATCH-NUM-V11X PIC XXXX.  
056600 03 REC-TYP-T-FMT-CD-V11X.  
056700 05 REC-TYP-V11X PIC XX.  
056800 05 FMT-NUM-V11X PIC X.  
056900 05 FMT-CD-V11X PIC X.  
057000 03 ADST-CD-T-TRN-NUM-V11X.  
057100 05 ADST-DIST-PLU-CDS-V11X PIC X(6).  
057200 05 ALLOT-NUM-T-TRN-NUM-V11X PIC X(10).  
057300 03 ACTN-CD-V11X PIC X.  
057400 03 LIN-NUM-V11X PIC XXX.  
057500 03 FILLER PIC X.  
057600 03 SWA-BRWD-V11X.  
057700 05 SWA-CD-BRWD-V11X PIC X.  
057800 05 SWA-NUM-BRWD-V11X PIC XXX.  
057900 05 TRN-NUM-BRWD-V11X PIC XX.  
058000 03 RA-CD-V11X PIC XX.  
058100 03 FILLER PIC X(7).  
058200 03 V11AX.  
058300 05 RNG-SITE-ID-V11AX PIC X(11).  
058400 05 RNG-ECOL-COND-CLS-V11AX PIC X.  
058500 05 VEG-SUB-TYP-V11AX PIC XXXX.  
058600 05 SWA-PCT-V11AX PIC XXX.  
058700 05 DATA-DAT-V11AX.  
058800 07 DATA-YER-V11AX PIC XX.  
058900 07 DATA-MON-V11AX PIC XX.  
059000 07 DATA-DAY-V11AX PIC XX.  
059100 05 RECER-INTLS-V11AX PIC XXX.  
059200 05 PHOTO-ID-V11AX PIC X(16).  
059300 05 CMPR-ID-V11AX.  
059400 07 ADST-DIST-CDS-CMPR-V11AX.  
059500 09 ADST-CD-CMPR-V11AX PIC XX.  
059600 09 DIST-CD-CMPR-V11AX PIC XX.  
059700 07 TWP-CMPR-V11AX.  
059800 09 TWP-NUM-CMPR-V11AX PIC XXX.  
059900 09 TWP-FRC-CMPR-V11AX PIC X.  
060000 09 TWP-DIR-CMPR-V11AX PIC X.  
060100 07 RNG-CMPR-V11AX.  
060200 09 RNG-NUM-CMPR-V11AX PIC XXX.  
060300 09 RNG-FRC-CMPR-V11AX PIC X.  
060400 09 RNG-DIR-CMPR-V11AX PIC X.  
060500 07 CONS-NUM-CMPR-V11AX PIC XX.  
060600 05 FILLER PIC X(40).  
060700 03 V12AX REDEFINES V11AX.  
060800 05 TYP-GC-CD-V12AX PIC X.  
060900 05 TYP-GC-HITS-V12AX PIC XXX.  
061000 05 PLANT-CD-V12AX PIC X(7) OCCURS 4 TIMES.  
061100 05 FILLER PIC X(68).  
061200 03 V13AX REDEFINES V11AX.  
061300 05 GRP1-V13AX.  
061400 07 FILLER PIC X(39).  
061500 07 PLANT-CDS-TYP-GC-HITS-V13AX PIC X(39).  
061600 05 GRP2-V13AX REDEFINES GRP1-V13AX OCCURS 2 TIMES.  
061700 07 PLANT-CD-V13AX PIC X(9) OCCURS 4 TIMES.

061800           07 TYP-GC-HITS-V13AX PIC XXX.  
061900           05 FILLER PIC X(22).  
062000       03 V14AX REDEFINES V11AX.  
062100           05 SSF-VAL-RAT-V14AX PIC XX OCCURS 7 TIMES.  
062200           05 FILLER PIC X(86).  
062300       03 V21AX REDEFINES V11AX.  
062400           05 PLOT-SIZ-V21AX PIC X.  
062500           05 PLOT-NUM-V21AX PIC XX.  
062600           05 PLOT-NUM-V21AR REDEFINES PLOT-NUM-V21AX PIC 99.  
062700           05 PLANT-CD-V21AX PIC X(7).  
062800           05 AGE-CLS-PLANT-V21AX PIC X.  
062900           05 FORM-CLS-PLANT-V21AX PIC X.  
063000           05 PHNO-STG-V21AX PIC X.  
063100           05 CLS-PLANT-AVAIL-V21AX PIC X.  
063200           05 CLS-PLANT-UTIL-V21AX PIC X.  
063300           05 AVG-HGT-PLANT-V21AX.  
063400           07 AVG-HGT-PLANT-INGR-V21AX PIC XXX.  
063500           07 AVG-HGT-PLANT-FRC-V21AX PIC XX.  
063600           05 CHARZD-NUM-V21AX PIC XXX.  
063700           05 AVG-LDR-LGT-V21AX.  
063800           07 AVG-LDR-LGT-INGR-V21AX PIC XXX.  
063900           07 AVG-LDR-LGT-FRC-V21AX PIC XX.  
064000           05 AVG-CRN-DIA-V21AX.  
064100           07 AVG-CRN-DIA-INGR-V21AX PIC XXX.  
064200           07 AVG-CRN-DIA-FRC-V21AX PIC XX.  
064300           05 CHARZD-NOT-NUM-V21AX PIC XXX.  
064400           05 MAST-CROPS-CD-V21AX PIC X.  
064500           05 FILLER PIC X(63).  
064600       03 V3XBX REDEFINES V11AX.  
064700           05 PLOT-TOT-NUM-V3XBX PIC XX.  
064800           05 PLOT-SIZ-EST-V3XBX.  
064900           07 PLOT-SIZ-EST-INGR-V3XBX PIC X(5).  
065000           07 PLOT-SIZ-EST-FRC-V3XBX PIC XX.  
065100           05 PLANT-CD-V3XBX PIC X(7).  
065200           05 HGT-CLS-CD-V3XBX PIC X.  
065300           05 GRP-V3XBX OCCURS 10 TIMES.  
065400           07 CLS-PLANT-AVAIL-V3XBX PIC X.  
065500           07 PHNO-STG-V3XBX PIC X.  
065600           07 CLS-PLANT-UTIL-V3XBX PIC X.  
065700           07 HRBG-PROD-WGT-V3XBX PIC XXXX.  
065800           05 FILLER PIC X(13).  
065900   01 V11Z.  
066000       03 BATCH-NUM-V11Z PIC 9999.  
066100       03 REC-TYP-V11Z PIC XX.  
066200       03 FMT-NUM-V11Z PIC 9.  
066300       03 FMT-CD-V11Z PIC X.  
066400       03 ADST-CD-V11Z PIC XX.  
066500       03 DIST-CD-V11Z PIC 99.  
066600       03 PLU-CD-V11Z PIC 99.  
066700       03 ALLOT-NUM-V11Z PIC 9999.  
066800       03 SWA-V11Z.  
066900           05 SWA-CD-V11Z PIC X.  
067000           05 SWA-NUM-V11Z PIC 999.  
067100       03 TRN-NUM-V11Z PIC 99.  
067200       03 ACTN-CD-V11Z PIC X.  
067300       03 LIN-NUM-V11Z PIC 999.  
067400       03 FILLER PIC X.

067500 03 SWA-BRWD-V11Z.  
067600 05 SWA-CD-BRWD-V11Z PIC X.  
067700 05 SWA-NUM-BRWD-V11Z PIC XXX.  
067800 05 TRN-NUM-BRWD-V11Z PIC XX.  
067900 03 RA-CD-V11Z PIC XX.  
068000 03 FILLER PIC X(7).  
068100 03 V11AZ.  
068200 05 RNG-SITE-ID-V11AZ PIC X(11).  
068300 05 RNG-ECOL-COND-CLS-V11AZ PIC X.  
068400 05 VEG-SUB-TYP-V11AZ PIC 9999.  
068500 05 SWA-PCT-V11AZ PIC 999.  
068600 05 DATA-DAT-V11AZ PIC X(6).  
068700 05 RECER-INTLS-V11AZ PIC XXX.  
068800 05 PHOTO-ID-V11AZ PIC X(16).  
068900 05 CMPR-ID-V11AZ.  
069000 07 ADST-CD-CMPR-V11AZ PIC XX.  
069100 07 DIST-CD-CMPR-V11AZ PIC 99.  
069200 07 TWP-CMPR-V11AZ.  
069300 09 TWP-NUM-CMPR-V11AZ PIC 999.  
069400 09 TWP-FRC-CMPR-V11AZ PIC 9.  
069500 09 TWP-DIR-CMPR-V11AZ PIC X.  
069600 07 RNG-CMPR-V11AZ.  
069700 09 RNG-NUM-CMPR-V11AZ PIC 999.  
069800 09 RNG-FRC-CMPR-V11AZ PIC 9.  
069900 09 RNG-DIR-CMPR-V11AZ PIC X.  
070000 07 CONS-NUM-CMPR-V11AZ PIC 99.  
070100 05 FILLER PIC X(35).  
070200 03 V12AZ REDEFINES V11AZ.  
070300 05 TYP-GC-CD-V12AZ PIC X.  
070400 05 TYP-GC-HITS-V12AZ PIC 999.  
070500 05 GRP1-V12AZ.  
070600 07 GRP2-V12AZ OCCURS 4 TIMES.  
070700 09 PLANT-TYP-V12AZ PIC X.  
070800 09 PLANT-CD-V12AZ PIC X(7).  
070900 05 FILLER PIC X(59).  
071000 03 V13AZ REDEFINES V11AZ.  
071100 05 GRP-V13AZ OCCURS 2 TIMES.  
071200 07 PLANT-CD-V13AZ PIC X(9) OCCURS 4 TIMES.  
071300 07 TYP-GC-HITS-V13AZ PIC 999.  
071400 05 FILLER PIC X(17).  
071500 03 V14AZ REDEFINES V11AZ.  
071600 05 SSF-VAL-RAT-V14AZ PIC XX OCCURS 7 TIMES.  
071700 05 SSF-VAL-AVG-V14AZ PIC XXX.  
071800 05 FILLER PIC X(78).  
071900 03 V21AZ REDEFINES V11AZ.  
072000 05 PLOT-SIZ-V21AZ PIC 9.  
072100 05 PLOT-NUM-V21AZ PIC 99.  
072200 05 PLANT-CD-V21AZ PIC X(7).  
072300 05 AGE-CLS-PLANT-V21AZ PIC X.  
072400 05 FORM-CLS-PLANT-V21AZ PIC 9.  
072500 05 PHNO-STG-V21AZ PIC 9.  
072600 05 CLS-PLANT-AVAIL-V21AZ PIC X.  
072700 05 CLS-PLANT-UTIL-V21AZ PIC 9.  
072800 05 GRP-V21AZ.  
072900 07 AVG-HGT-PLANT-V21AZ PIC 999V9.  
073000 07 CHARZD-NUM-V21AZ PIC 999.  
073100 07 AVG-LDR-LGT-V21AZ PIC 99V9.

```

073200          07 FILLER PIC X.
073300          07 AVG-CRN-DIA-V21AZ PIC 99V9.
073400          07 FILLER PIC X.
073500          07 CHARZD-NOT-NUM-V21AZ PIC 999.
073600          07 MAST-CROPS-CD-V21AZ PIC X.
073700          07 FILLER PIC XXX.
073800          05 FILLER PIC X(57).
073900          05 PLANT-TYP-V21AZ PIC X.
074000    03 V3XBZ REDEFINES V11AZ.
074100          05 PLOT-TOT-NUM-V3XBZ PIC 99.
074200          05 PLOT-SIZ-EST-V3XBZ PIC 999V99.
074300          05 PLOT-SIZ-FIL-V3XBZ PIC XX.
074400          05 PLANT-CD-V3XBZ PIC X(7).
074500          05 HGT-CLS-CD-V3XBZ PIC 9.
074600          05 GRP-V3XBZ OCCURS 10 TIMES.
074700          07 CLS-PLANT-AVAIL-V3XBZ PIC X.
074800          07 PHNO-STG-T-PROD-WGT-V3XBZ.
074900              09 PHNO-STG-V3XBZ PIC 9.
075000              09 CLS-PLANT-UTIL-V3XBZ PIC 9.
075100              09 HRBG-PROD-WGT-V3XBZ PIC 9999.
075200          05 FILLER PIC X(7).
075300          05 PLANT-TYP-V3XBZ PIC X.
075400    03 FILLER PIC X(5).
075500 PROCEDURE DIVISION.
075600 START-PARA.
075700     MOVE SPACE TO PLT-TABLE.
075800     MOVE ZERO TO PLT-TABLE-2.
075900     ACCEPT DAT-H FROM DATE. MOVE DAY-H TO DAY-PH1.
076000     MOVE MON-T (MON-H) TO MON-PH1. MOVE YER-H TO YER-PH1.
076100     OPEN INPUT FIL-I1,
076200         OUTPUT FIL-D1, FIL-P1. READY DIC-DE.
076300 0100.
076400     READ FIL-I1 AT END
076500         GO TO 9950-WRAP-UP.
076600     IF SDP-I1 = "CO0710"
076700         MOVE "CO0709" TO SDP-I1.
076800     IF SDP-I1 = "NM0303"
076900         MOVE "NM0305" TO SDP-I1.
077000     IF SDP-I1 = "WY0425"
077100         MOVE "WY0435" TO SDP-I1.
077200     IF SDP-I1 = "WY0324" OR "WY0335"
077300         MOVE "WY0323" TO SDP-I1.
077400     ADD 1 TO IN-CNTR. MOVE REC-I1 TO V11X, V11Z.
077500     IF ADST-CD-T-TRN-NUM-V11H = ADST-CD-T-TRN-NUM-V11X
077600         GO TO 0600.
077700     MOVE ZERO TO KEY-FLG. MOVE 1 TO RITE-HDR-FLG, RITE-KEY-FLG.
077800     IF ADST-DIST-PLU-CDS-V11H = ADST-DIST-PLU-CDS-V11X
077900         GO TO 0500. MOVE ZERO TO PAG-CNT.
078000     MOVE 0003 TO DE-NO-8801-DEC. MOVE 48 TO LIN-CBK.
078100     MOVE SPACES TO KEY-LIN1B1, RA-CD-PH2.
078200     MOVE "UNKNOWN " TO ADST-NAM-PH2, DIST-NAM-PH3,
078300         RA-NAM-PH2, PLU-NAM-PH3.
078400     MOVE ADST-DIST-PLU-CDS-V11X TO ADST-DIST-PLU-CDS-V11H.
078500     MOVE PLU-CD-V11H TO PLU-CD-H, PLU-CD-KL1A, PLU-CD-PH3.
078600     MOVE DIST-CD-V11H TO DIST-CD-H, DIST-CD-KL1A.
078700     MOVE ADST-CD-V11H TO ADST-CD-H, ADST-CD-KL1A, DE-CD-8822-DEC.
078800     FIND ANY CODE-DEC.

```

```

078900     IF DB-STATUS NOT = ZERO  MOVE 02ASTRKS-L TO
079000         ADST-CD-KL1B, DIST-CD-KL1B, PLU-CD-KL1B
079100         MOVE 1 TO KEY-FLG  GO TO 0500.
079200     GET CODE-DEC.
079300     MOVE DE-CD-NAM-8823-DEC TO DE-CD-NAM-8823-DEC-H.
079400     MOVE ST-NAM-H TO ADST-NAM-PH2.
079500     MOVE ADST-DIST-CDS-H TO DE-CD-8822-DEC.
079600     FIND ANY CODE-DEC.
079700     IF DB-STATUS NOT = ZERO  MOVE 02ASTRKS-L TO
079800         DIST-CD-KL1B, PLU-CD-KL1B
079900         MOVE 1 TO KEY-FLG  GO TO 0500.
080000     GET CODE-DEC.  FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
080100     IF DB-STATUS NOT = ZERO  MOVE 02ASTRKS-L TO
080200         DIST-CD-KL1B, PLU-CD-KL1B
080300         MOVE 1 TO KEY-FLG  GO TO 0500.
080400     GET CODE-EXPL-DECE.
080500     MOVE DE-CD-EXPLN-8827-DECE TO DE-CD-EXPLN-8827-DECE-H.
080600     MOVE DIST-NAM-H TO DIST-NAM-PH3.  MOVE 4 TO RA-CD-C1-H.
080700 0300.
080800     MOVE ADST-DIST-RA-PLU-CDS-H TO DE-CD-8822-DEC.
080900     FIND ANY CODE-DEC.
081000     IF DB-STATUS NOT = ZERO  GO TO 0400.
081100     GET CODE-DEC.  FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
081200     IF DB-STATUS = ZERO  GET CODE-EXPL-DECE
081300         MOVE DE-CD-EXPLN-8827-DECE TO DE-CD-EXPLN-8827-DECE-H
081400         MOVE RA-CD-H TO RA-CD-PH2  MOVE RA-NAM-H TO RA-NAM-PH2
081500         MOVE PLU-NAM-H TO PLU-NAM-PH3  GO TO 0500.
081600 0400.
081700     IF RA-CD-C1-H < 8  ADD 1 TO RA-CD-C1-H  GO TO 0300.
081800*     MOVE 02ASTRKS-L TO PLU-CD-KL1B.  MOVE 1 TO KEY-FLG.
081900     ADD 1 TO CNT-BAD-PU.
082000 0500.
082100     MOVE SPACES TO KEY-LIN1B2.
082200     MOVE ALLOT-NUM-T-TRN-NUM-V11X TO ALLOT-NUM-T-TRN-NUM-V11H.
082300     MOVE ALLOT-NUM-V11H TO ALLOT-NUM-KL1A.
082400     MOVE SWA-V11H TO SWA-KL1A.
082500     MOVE TRN-NUM-V11H TO TRN-NUM-KL1A.
082600     IF ALLOT-NUM-V11H NOT NUMERIC
082700*         MOVE 04ASTRKS-L TO ALLOT-NUM-KL1B  MOVE 1 TO KEY-FLG.
082800         ADD 1 TO CNT-BAD-ALOT.
082900     IF SWA-CD-V11H NOT ALPHABETIC OR SWA-CD-V11H = SPACE
083000         MOVE 01ASTRK-L TO SWA-CD-KL1B  MOVE 1 TO KEY-FLG.
083100     IF SWA-NUM-V11H NOT NUMERIC
083200         MOVE 03ASTRKS-L TO SWA-NUM-KL1B  MOVE 1 TO KEY-FLG.
083300     IF TRN-NUM-V11H NOT NUMERIC
083400         MOVE 02ASTRKS-L TO TRN-NUM-KL1B  MOVE 1 TO KEY-FLG.
083500 0600.
083600     MOVE RA-CD-H TO RA-CD-V11X, RA-CD-V11Z.
083700     MOVE KEY-FLG TO DATA-FLG.
083800     IF ACTN-CD-V11X = "A"  GO TO 0700.
083900     IF ACTN-CD-V11X = "R"
084000         MOVE ZERO TO LIN-NUM-V11Z  GO TO 0800.
084100     IF LIN-NUM-V11X NOT NUMERIC OR LIN-NUM-V11X = ZERO
084200         MOVE 03ASTRKS-L TO LIN-NUM-DL1B
084300         MOVE 1 TO DATA-FLG.  GO TO 0800.
084400 0700.
084500     MOVE REC-TYP-T-FMT-CD-V11X TO REC-TYP-T-FMT-CD-V11H.

```

```

084600 MOVE ACTN-CD-V11X TO ACTN-CD-V11H.
084700 IF ADST-CD-T-ACTN-CD-V11H NOT = ADST-CD-T-ACTN-CD-V11X-H
084800 MOVE ADST-CD-T-ACTN-CD-V11H TO ADST-CD-T-ACTN-CD-V11X-H
084900 MOVE ZERO TO LIN-NUM-H.
085000 ADD 1 TO LIN-NUM-H.
085100 0800.
085200 IF (CNT-BAD-TYPE > 25) OR (CNT-BAD-FORM > 25) OR
085300 (CNT-BAD-CODE > 25)
085400 DISPLAY " "
085500 DISPLAY "ABORT ABORT ABORT ABORT ABORT ABORT ABORT"
085600 DISPLAY " "
085700 GO TO 9950-WRAP-UP.
085800 IF REC-TYP-V11X = "V2" GO TO 5000.
085900 IF REC-TYP-V11X = "V3" GO TO 6000.
086000 IF REC-TYP-V11X NOT = "V1"
086100 ADD 1 TO CNT-BAD-TYPE
086200 DISPLAY "BAD REC TYPE= " V11X
086300 GO TO 0100.
086400 ADD 1 TO CNT-V1.
086500 IF FMT-NUM-V11X = "2" GO TO 2000.
086600 IF FMT-NUM-V11X = "3" MOVE 1 TO SS1A, SS1B GO TO 3000.
086700 IF FMT-NUM-V11X = "4" MOVE 1 TO SS1A GO TO 4000.
086800 IF FMT-NUM-V11X NOT = "1"
086900 ADD 1 TO CNT-BAD-FORM
087000 DISPLAY "BAD REC FORM= " V11X
087100 GO TO 0100.
087200 IF SWA-BRWD-V11X = SPACES GO TO 0900.
087300 IF SWA-CD-BRWD-V11X NOT ALPHABETIC
087400 OR SWA-CD-BRWD-V11X = SPACE
087500 MOVE 01ASTRK-L TO SWA-CD-BRWD-DL1B11
087600 MOVE 1 TO DATA-FLG.
087700 IF SWA-NUM-BRWD-V11X NOT NUMERIC
087800 MOVE 03ASTRKS-L TO SWA-NUM-BRWD-DL1B11
087900 MOVE 1 TO DATA-FLG.
088000 IF TRN-NUM-BRWD-V11X NOT NUMERIC
088100 MOVE 02ASTRKS-L TO TRN-NUM-BRWD-DL1B11
088200 MOVE 1 TO DATA-FLG.
088300 IF DATA-FLG ZERO MOVE SPACES TO V11AZ GO TO 7000.
088400 IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-V11X
088500 MOVE COL-HDRA11 TO COL-HDR2A1
088600 MOVE COL-HDRB11 TO COL-HDR2B1
088700 MOVE COL-HDRC11 TO COL-HDR2C1
088800 MOVE 1 TO RITE-HDR-FLG.
088900 MOVE SWA-BRWD-V11X TO SWA-BRWD-DL1A11. GO TO 7100.
089000 0900.
089100 IF DATA-YER-V11AX NOT NUMERIC
089200 MOVE 02ASTRKS-L TO DATA-YER-DL1B11
089300 MOVE 1 TO DATA-FLG.
089400 IF DATA-MON-V11AX NOT NUMERIC
089500 OR DATA-MON-V11AX < "01" OR > "12"
089600 MOVE 02ASTRKS-L TO DATA-MON-DL1B11
089700 MOVE 1 TO DATA-FLG.
089800 IF DATA-DAY-V11AX NOT NUMERIC
089900 OR DATA-DAY-V11AX < "01" OR > "31"
090000 MOVE 02ASTRKS-L TO DATA-DAY-DL1B11
090100 MOVE 1 TO DATA-FLG.
090200 IF DAT-H NOT > DATA-DAT-V11AX

```

```

090300         MOVE 06ASTRKS-L TO DATA-DAT-DL1B11
090400         MOVE 1 TO DATA-FLG.
090500         IF ADST-DIST-CDS-CMPR-V11AX = SPACES GO TO 1400.
090600         MOVE 0003 TO DE-NO-8801-DEC.
090700         MOVE ADST-CD-CMPR-V11AX TO DE-CD-8822-DEC.
090800         FIND ANY CODE-DEC.
090900         IF DB-STATUS NOT = ZERO
091000             MOVE 02ASTRKS-L TO ADST-CD-CMPR-DL1B11
091100             MOVE 1 TO DATA-FLG.
091200         MOVE ADST-DIST-CDS-CMPR-V11AX TO DE-CD-8822-DEC.
091300         FIND ANY CODE-DEC.
091400         IF DB-STATUS NOT = ZERO
091500             MOVE 02ASTRKS-L TO DIST-CD-CMPR-DL1B11
091600             MOVE 1 TO DATA-FLG.
091700 1400.
091800         IF CONS-NUM-CMPR-V11AX = SPACES
091900             MOVE ZERO TO CONS-NUM-CMPR-V11AZ
092000         ELSE IF CONS-NUM-CMPR-V11AX NOT NUMERIC
092100             OR CONS-NUM-CMPR-V11AX NOT > ZERO
092200                 MOVE 02ASTRKS-L TO CONS-NUM-CMPR-DL1B11
092300                 MOVE 1 TO DATA-FLG.
092400         IF DATA-FLG NOT ZERO GO TO 1500.
092500         IF VEG-SUB-TYP-V11AX = SPACES
092600             MOVE ZERO TO VEG-SUB-TYP-V11AZ.
092700         MOVE DATA-DAT-V11AX TO DATA-DAT-V11AZ.
092800         IF DIST-CD-CMPR-V11AX = SPACES
092900             MOVE ZERO TO DIST-CD-CMPR-V11AZ.
093000         IF TWP-NUM-CMPR-V11AX = SPACES
093100             MOVE ZERO TO TWP-NUM-CMPR-V11AZ.
093200         IF TWP-FRC-CMPR-V11AX = SPACE
093300             MOVE ZERO TO TWP-FRC-CMPR-V11AZ.
093400         IF RNG-NUM-CMPR-V11AX = SPACES
093500             MOVE ZERO TO RNG-NUM-CMPR-V11AZ.
093600         IF RNG-FRC-CMPR-V11AX = SPACE
093700             MOVE ZERO TO RNG-FRC-CMPR-V11AZ. GO TO 7000.
093800 1500.
093900         IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-V11X
094000             MOVE COL-HDR11 TO COL-HDR2A1
094100             MOVE COL-HDRB11 TO COL-HDR2B1
094200             MOVE COL-HDRC11 TO COL-HDR2C1
094300             MOVE 1 TO RITE-HDR-FLG.
094400         MOVE RNG-SITE-ID-V11AX TO RNG-SITE-ID-DL1A11.
094500         MOVE RNG-ECOL-COND-CLS-V11AX TO RNG-ECOL-COND-CLS-DL1A11.
094600         MOVE VEG-SUB-TYP-V11AX TO VEG-SUB-TYP-DL1A11.
094700         MOVE SWA-PCT-V11AX TO SWA-PCT-DL1A11.
094800         MOVE DATA-DAT-V11AX TO DATA-DAT-DL1A11.
094900         MOVE RECER-INTLS-V11AX TO RECER-INTLS-DL1A11.
095000         MOVE PHOTO-ID-V11AX TO PHOTO-ID-DL1A11.
095100         MOVE ADST-CD-CMPR-V11AX TO ADST-CD-CMPR-DL1A11.
095200         MOVE DIST-CD-CMPR-V11AX TO DIST-CD-CMPR-DL1A11.
095300         MOVE TWP-CMPR-V11AX TO TWP-CMPR-DL1A11.
095400         MOVE RNG-CMPR-V11AX TO RNG-CMPR-DL1A11.
095500         MOVE CONS-NUM-CMPR-V11AX TO CONS-NUM-CMPR-DL1A11.
095600         GO TO 7100.
095700 2000.
095800         MOVE SPACES TO GRP1-V12AZ. MOVE 1 TO SS1A.
095900         IF TYP-GC-HITS-V12AX = SPACES OR ZERO

```

```

096000         MOVE ZERO TO TYP-GC-HITS-V12AZ  GO TO 2200.
096100         IF TYP-GC-CD-V12AX NOT =
096200           "B" AND "C" AND "G" AND "N" AND "P" AND "R" AND "S"
096300           MOVE 01ASTRK-L TO TYP-GC-CD-DL1B12
096400           MOVE 1 TO DATA-FLG.
096500         IF TYP-GC-HITS-V12AX NOT NUMERIC
096600           MOVE 03ASTRKS-L TO TYP-GC-HITS-DL1B12
096700           MOVE 1 TO DATA-FLG.  GO TO 2200.
096800 2100.
096900         IF TYP-GC-CD-V12AX NOT = SPACE AND
097000           "B" AND "C" AND "G" AND "N" AND "P" AND "R" AND "S"
097100           MOVE 01ASTRK-L TO TYP-GC-CD-DL1B12
097200           MOVE 1 TO DATA-FLG.
097300 2200.
097400         MOVE PLANT-CD-V12AX (SS1A) TO PLT-HLD.
097500         PERFORM 9900-PLT-CNV.
097600         MOVE PLT-HLD TO PLANT-CD-V12AX (SS1A).
097700         MOVE PLANT-CD-V12AX (SS1A) TO DE-CD-8822-DEC.
097800         IF DE-CD-8822-DEC = SPACES  GO TO 2400.
097900         PERFORM 9200.  IF PLANT-CD-FLG NOT ZERO
098000           MOVE 07ASTRKS-L TO PLANT-CD-DL1B12 (SS1A)
098100           MOVE 1 TO DATA-FLG
098200         ELSE MOVE PLANT-TYP-H TO PLANT-TYP-V12AZ (SS1A)
098300           MOVE PLANT-CD-H TO PLANT-CD-V12AZ (SS1A).
098400 2400.
098500         IF SS1A < 4  ADD 1 TO SS1A  GO TO 2200.
098600         IF DATA-FLG ZERO  GO TO 7000.
098700         IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-V11X
098800           MOVE COL-HDRA12 TO COL-HDR2A1
098900           MOVE COL-HDRB12 TO COL-HDR2B1
099000           MOVE COL-HDRC12 TO COL-HDR2C1
099100           MOVE 1 TO RITE-HDR-FLG.
099200         MOVE TYP-GC-CD-V12AX TO TYP-GC-CD-DL1A12.
099300         MOVE TYP-GC-HITS-V12AX TO TYP-GC-HITS-DL1A12.
099400         MOVE 1 TO SS1A.
099500 2800.
099600         MOVE PLANT-CD-V12AX (SS1A) TO PLANT-CD-DL1A12 (SS1A).
099700         IF SS1A < 4  ADD 1 TO SS1A  GO TO 2800.
099800         GO TO 7100.
099900 3000.
100000        MOVE PLANT-CD-V13AX (SS1A, SS1B) TO PLT-HLD.
100100        PERFORM 9900-PLT-CNV.
100200        MOVE PLT-HLD TO PLANT-CD-V13AX (SS1A, SS1B).
100300        MOVE PLANT-CD-V13AX (SS1A, SS1B) TO PLANT-CD-V13AX-H.
100400        IF PLANT-CD-V13AX-H = SPACES  GO TO 3800.
100500        IF PLANT-CD-LST-8C-V13AX-H NOT = SPACES  GO TO 3300.
100600        IF PLANT-CD-C1-V13AX-H NOT = "B" AND "C" AND "G" AND "L"
100700          AND "M" AND "N" AND "P" AND "R" AND "S"
100800          MOVE 09ASTRKS-L TO PLANT-CD-DL1B13 (SS1A, SS1B)
100900          MOVE 1 TO DATA-FLG.  GO TO 3800.
101000 3300.
101100        MOVE PLANT-CD-1ST-8C-V13AX-H TO DE-CD-8822-DEC.
101200        PERFORM 9200.  IF PLANT-CD-FLG ZERO  GO TO 3800.
101300        MOVE SPACES TO PLANT-CD-V13AZ-H.
101400        MOVE 1 TO SS1C, SS1D.
101500 3600.
101600        MOVE 1C-PLANT-CD-V13AX-H (SS1C) TO 1C-PLANT-CD-H.

```



```

101700     IF 1C-PLANT-CD-H = "(" OR ")" MOVE SPACE TO 1C-PLANT-CD-H
101800         MOVE "*" TO LEV-TRN-HIT-V13AZ-H.
101900     IF 1C-PLANT-CD-H NOT = SPACE MOVE 1C-PLANT-CD-H
102000         TO 1C-PLANT-CD-V13AZ-H (SS1D) ADD 1 TO SS1D.
102100     IF SS1C < 9 ADD 1 TO SS1C GO TO 3600.
102200     IF PLANT-CD-C2T7-V13AZ-H NOT = SPACES GO TO 3700.
102300     IF PLANT-CD-C1-V13AZ-H = "B" OR "C" OR "G" OR "L" OR "M"
102400         OR "N" OR "P" OR "R" OR "S"
102500         MOVE PLANT-CD-V13AZ-H TO PLANT-CD-V13AZ (SS1A, SS1B)
102600         GO TO 3800.
102700     MOVE 09ASTRKS-L TO PLANT-CD-DL1B13 (SS1A, SS1B).
102800     MOVE 1 TO DATA-FLG. GO TO 3800.
102900 3700.
103000     MOVE PLANT-CD-1ST-7C-V13AZ-H TO DE-CD-8822-DEC.
103100     PERFORM 9200. IF PLANT-CD-FLG NOT ZERO
103200         MOVE 09ASTRKS-L TO PLANT-CD-DL1B13 (SS1A, SS1B)
103300         MOVE 1 TO DATA-FLG
103400     ELSE MOVE PLANT-CD-V13AZ-H TO PLANT-CD-V13AZ (SS1A, SS1B).
103500 3800.
103600     IF SS1B < 4 ADD 1 TO SS1B GO TO 3000.
103700     MOVE TYP-GC-HITS-V13AX (SS1A) TO TYP-GC-HITS-V13AX-H.
103800     IF TYP-GC-HITS-V13AX-H NOT NUMERIC
103900         OR TYP-GC-HITS-V13AX-H NOT > ZERO
104000         MOVE 03ASTRKS-L TO TYP-GC-HITS-DL1B13 (SS1A)
104100         MOVE 1 TO DATA-FLG.
104200     IF SS1A < 2 AND PLANT-CDS-TYP-GC-HITS-V13AX NOT = SPACES
104300         MOVE 2 TO SS1A MOVE 1 TO SS1B GO TO 3000.
104400     IF DATA-FLG NOT ZERO GO TO 3850.
104500     IF TYP-GC-HITS-V13AX (SS1A) = SPACES
104600         MOVE ZERO TO TYP-GC-HITS-V13AZ (SS1A). GO TO 7000.
104700 3850.
104800     IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-V11X
104900         MOVE COL-HDRA13 TO COL-HDR2A1
105000         MOVE COL-HDRB13 TO COL-HDR2B1
105100         MOVE COL-HDRC13 TO COL-HDR2C1
105200         MOVE 1 TO RITE-HDR-FLG.
105300     MOVE 1 TO SS1A, SS1B.
105400 3900.
105500     MOVE PLANT-CD-V13AX (SS1A, SS1B)
105600         TO PLANT-CD-DL1A13 (SS1A, SS1B).
105700     IF SS1B < 4 ADD 1 TO SS1B GO TO 3900.
105800     MOVE TYP-GC-HITS-V13AX (SS1A) TO TYP-GC-HITS-DL1A13 (SS1A).
105900     IF SS1A < 2 AND PLANT-CDS-TYP-GC-HITS-V13AX NOT = SPACES
106000         MOVE 2 TO SS1A MOVE 1 TO SS1B GO TO 3900.
106100     GO TO 7100.
106200 4000.
106300     MOVE SSF-VAL-RAT-V14AX (SS1A) TO SSF-VAL-RAT-V14AX-H.
106400     IF SSF-VAL-RAT-V14AX-H = SPACES
106500         MOVE "99" TO SSF-VAL-RAT-V14AX (SS1A)
106600         SSF-VAL-RAT-V14AZ (SS1A) GO TO 4500.
106700     IF SSF-VAL-RAT-V14AX-H = "NA" OR "99"
106800         OR SSF-VAL-RAT-V14AX-H NUMERIC
106900         AND SSF-VAL-RAT-V14AX-H NOT > SSF-VAL-RAT-T (SS1A)
107000         GO TO 4500.
107100     MOVE 02ASTRKS-L TO SSF-VAL-RAT-DL1B14 (SS1A).
107200     MOVE 1 TO DATA-FLG.
107300 4500.

```

```

107400     IF SS1A < 7  ADD 1 TO SS1A  GO TO 4000.
107500     IF DATA-FLG ZERO
107600         MOVE SPACES TO SSF-VAL-AVG-V14AZ  GO TO 7000.
107700     IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-V11X
107800         MOVE COL-HDRA14 TO COL-HDR2A1
107900         MOVE COL-HDRB14 TO COL-HDR2B1
108000         MOVE COL-HDRC14 TO COL-HDR2C1
108100         MOVE 1 TO RITE-HDR-FLG.
108200     MOVE 1 TO SS1A.
108300 4800.
108400     MOVE SSF-VAL-RAT-V14AX (SS1A) TO SSF-VAL-RAT-DL1A14 (SS1A).
108500     IF SS1A < 7  ADD 1 TO SS1A  GO TO 4800.
108600     GO TO 7100.
108700 5000.
108800     ADD 1 TO CNT-V2.
108900     MOVE PLANT-CD-V21AX  TO PLT-HLD.
109000     PERFORM 9900-PLT-CNV.
109100     MOVE PLT-HLD TO PLANT-CD-V21AX .
109200     IF PLANT-CD-V21AX = "BARREN "
109300         MOVE SPACES TO V21AZ  MOVE ZERO TO PLOT-SIZ-V21AZ,
109400             FORM-CLS-PLANT-V21AZ, PHNO-STG-V21AZ,
109500             CLS-PLANT-UTIL-V21AZ, AVG-HGT-PLANT-V21AZ,
109600             AVG-LDR-LGT-V21AZ, AVG-CRN-DIA-V21AZ,
109700             CHARZD-NOT-NUM-V21AZ
109800         MOVE PLOT-NUM-V21AR TO PLOT-NUM-V21AZ
109900         MOVE PLANT-CD-V21AX TO PLANT-CD-V21AZ
110000         MOVE 001 TO CHARZD-NUM-V21AZ  GO TO 7000.
110100     IF PLOT-SIZ-V21AX NOT = "1" AND "2"
110200         MOVE 01ASTRK-L TO PLOT-SIZ-DL1B21
110300         MOVE 1 TO DATA-FLG.
110400     IF PLOT-NUM-V21AX NOT NUMERIC
110500         OR PLOT-NUM-V21AX < "01" OR > "40"
110600         MOVE 02ASTRKS-L TO PLOT-NUM-DL1B21
110700         MOVE 1 TO DATA-FLG.
110800     MOVE PLANT-CD-V21AX TO DE-CD-8822-DEC.
110900     PERFORM 9200.  IF PLANT-CD-FLG NOT ZERO
111000         MOVE 07ASTRKS-L TO PLANT-CD-DL1B21
111100         MOVE 1 TO DATA-FLG
111200     ELSE MOVE PLANT-TYP-H TO PLANT-TYP-V21AZ.
111300 5100.
111400     IF FORM-CLS-PLANT-V21AX NOT = "5"  GO TO 5150.
111500     IF AGE-CLS-PLANT-V21AX NOT = SPACE
111600         MOVE 01ASTRK-L TO AGE-CLS-PLANT-DL1B21
111700         MOVE 1 TO DATA-FLG.
111800     IF PHNO-STG-V21AX NOT = SPACE
111900         MOVE 01ASTRK-L TO PHNO-STG-DL1B21
112000         MOVE 1 TO DATA-FLG.
112100     IF CLS-PLANT-AVAIL-V21AX NOT = SPACE
112200         MOVE 01ASTRK-L TO CLS-PLANT-AVAIL-DL1B21
112300         MOVE 1 TO DATA-FLG.
112400     IF CLS-PLANT-UTIL-V21AX NOT = SPACE
112500         MOVE 01ASTRK-L TO CLS-PLANT-UTIL-DL1B21
112600         MOVE 1 TO DATA-FLG.
112700     IF AVG-HGT-PLANT-INGR-V21AX NOT = SPACE
112800         MOVE 03ASTRKS-L TO AVG-HGT-PLANT-INGR-DL1B21
112900         MOVE 1 TO DATA-FLG.
113000     IF AVG-HGT-PLANT-FRC-V21AX NOT = SPACE

```

```

113100         MOVE 02ASTRKS-L TO AVG-HGT-PLANT-FRC-DL1B21
113200         MOVE 1 TO DATA-FLG.
113300     IF AVG-LDR-LGT-INGR-V21AX NOT = SPACE
113400         MOVE 03ASTRKS-L TO AVG-LDR-LGT-INGR-DL1B21
113500         MOVE 1 TO DATA-FLG.
113600     IF AVG-LDR-LGT-FRC-V21AX NOT = SPACE
113700         MOVE 02ASTRKS-L TO AVG-LDR-LGT-FRC-DL1B21
113800         MOVE 1 TO DATA-FLG.
113900     IF AVG-CRN-DIA-INGR-V21AX NOT = SPACE
114000         MOVE 03ASTRKS-L TO AVG-CRN-DIA-INGR-DL1B21
114100         MOVE 1 TO DATA-FLG.
114200     IF AVG-CRN-DIA-FRC-V21AX NOT = SPACE
114300         MOVE 02ASTRKS-L TO AVG-CRN-DIA-FRC-DL1B21
114400         MOVE 1 TO DATA-FLG.
114500     IF DATA-FLG ZERO
114600         MOVE ZERO TO PHNO-STG-V21AZ, CLS-PLANT-UTIL-V21AZ.
114700     GO TO 5200.
114800 5150.
114900     IF AGE-CLS-PLANT-V21AX NOT = SPACE
115000         AND "D" AND "M" AND "O" AND "P" AND "R" AND "S" AND "Y"
115100         MOVE 01ASTRK-L TO AGE-CLS-PLANT-DL1B21
115200         MOVE 1 TO DATA-FLG.
115300     IF FORM-CLS-PLANT-V21AX = SPACE
115400         MOVE ZERO TO FORM-CLS-PLANT-V21AZ
115500     ELSE IF FORM-CLS-PLANT-V21AX < "1" OR > "4"
115600         MOVE 01ASTRK-L TO FORM-CLS-PLANT-DL1B21
115700         MOVE 1 TO DATA-FLG.
115800     IF PHNO-STG-V21AX = SPACE MOVE ZERO TO PHNO-STG-V21AZ
115900     ELSE IF PHNO-STG-V21AX < "1" OR > "9"
116000         MOVE 01ASTRK-L TO PHNO-STG-DL1B21 MOVE 1 TO DATA-FLG.
116100     IF CLS-PLANT-AVAIL-V21AX NOT =
116200         SPACE AND "A" AND "H" AND "L" AND "P" AND "U"
116300         MOVE 01ASTRK-L TO CLS-PLANT-AVAIL-DL1B21
116400         MOVE 1 TO DATA-FLG.
116500     IF CLS-PLANT-UTIL-V21AX = SPACE
116600         MOVE ZERO TO CLS-PLANT-UTIL-V21AZ
116700     ELSE IF CLS-PLANT-UTIL-V21AX < ZERO OR > "5"
116800         MOVE 01ASTRK-L TO CLS-PLANT-UTIL-DL1B21
116900         MOVE 1 TO DATA-FLG.
117000 5200.
117100     MOVE SPACES TO GRP-V21AZ.
117200     IF AVG-HGT-PLANT-V21AX = SPACES
117300         MOVE ZERO TO AVG-HGT-PLANT-V21AZ GO TO 5300.
117400     MOVE AVG-HGT-PLANT-V21AX TO INGR-FRC-H. PERFORM 9600.
117500     IF INGR-FLG NOT ZERO
117600         MOVE 03ASTRKS-L TO AVG-HGT-PLANT-INGR-DL1B21
117700         MOVE 1 TO DATA-FLG.
117800     IF FRC-FLG NOT ZERO
117900         MOVE 02ASTRKS-L TO AVG-HGT-PLANT-FRC-DL1B21
118000         MOVE 1 TO DATA-FLG.
118100     IF DATA-FLG ZERO
118200         MOVE INGR-3C-FRC-1C-H TO AVG-HGT-PLANT-V21AZ.
118300 5300.
118400     IF CHARZD-NUM-V21AX = SPACE
118500         MOVE ZERO TO CHARZD-NUM-V21AZ
118600     ELSE IF CHARZD-NUM-V21AX NUMERIC
118700         MOVE CHARZD-NUM-V21AX TO CHARZD-NUM-V21AZ

```

```

118800 ELSE MOVE 03ASTRKS-L TO CHARZD-NUM-DL1B21
118900 MOVE 1 TO DATA-FLG.
119000 IF AVG-LDR-LGT-V21AX = SPACES
119100 MOVE ZERO TO AVG-LDR-LGT-V21AZ GO TO 5400.
119200 MOVE AVG-LDR-LGT-V21AX TO INGR-FRC-H. PERFORM 9600.
119300 IF INGR-FLG NOT ZERO
119400 MOVE 03ASTRKS-L TO AVG-LDR-LGT-INGR-DL1B21
119500 MOVE 1 TO DATA-FLG.
119600 IF FRC-FLG NOT ZERO
119700 MOVE 02ASTRKS-L TO AVG-LDR-LGT-FRC-DL1B21
119800 MOVE 1 TO DATA-FLG.
119900 IF DATA-FLG ZERO
120000 MOVE INGR-2C-FRC-1C-H TO AVG-LDR-LGT-V21AZ.
120100 5400.
120200 IF AVG-CRN-DIA-V21AX = SPACES
120300 MOVE ZERO TO AVG-CRN-DIA-V21AZ GO TO 5500.
120400 MOVE AVG-CRN-DIA-V21AX TO INGR-FRC-H. PERFORM 9600.
120500 IF INGR-FLG NOT ZERO
120600 MOVE 03ASTRKS-L TO AVG-CRN-DIA-INGR-DL1B21
120700 MOVE 1 TO DATA-FLG.
120800 IF FRC-FLG NOT ZERO
120900 MOVE 02ASTRKS-L TO AVG-CRN-DIA-FRC-DL1B21
121000 MOVE 1 TO DATA-FLG.
121100 IF DATA-FLG ZERO
121200 MOVE INGR-2C-FRC-1C-H TO AVG-CRN-DIA-V21AZ.
121300 5500.
121400 IF CHARZD-NOT-NUM-V21AX = SPACE
121500 MOVE ZERO TO CHARZD-NOT-NUM-V21AZ
121600 ELSE IF CHARZD-NOT-NUM-V21AX NUMERIC
121700 MOVE CHARZD-NOT-NUM-V21AX TO CHARZD-NOT-NUM-V21AZ
121800 ELSE MOVE 03ASTRKS-L TO CHARZD-NOT-NUM-DL1B21
121900 MOVE 1 TO DATA-FLG.
122000 IF DATA-FLG ZERO
122100 MOVE MAST-CROPS-CD-V21AX TO MAST-CROPS-CD-V21AZ
122200 GO TO 7000.
122300 IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-V11X
122400 MOVE COL-HDRA21 TO COL-HDR2A1
122500 MOVE COL-HDRB21 TO COL-HDR2B1
122600 MOVE COL-HDRC21 TO COL-HDR2C1
122700 MOVE 1 TO RITE-HDR-FLG.
122800 MOVE PLOT-SIZ-V21AX TO PLOT-SIZ-DL1A21.
122900 MOVE PLOT-NUM-V21AX TO PLOT-NUM-DL1A21.
123000 MOVE PLANT-CD-V21AX TO PLANT-CD-DL1A21.
123100 MOVE AGE-CLS-PLANT-V21AX TO AGE-CLS-PLANT-DL1A21.
123200 MOVE FORM-CLS-PLANT-V21AX TO FORM-CLS-PLANT-DL1A21.
123300 MOVE PHNO-STG-V21AX TO PHNO-STG-DL1A21.
123400 MOVE CLS-PLANT-AVAIL-V21AX TO CLS-PLANT-AVAIL-DL1A21.
123500 MOVE CLS-PLANT-UTIL-V21AX TO CLS-PLANT-UTIL-DL1A21.
123600 IF AVG-HGT-PLANT-V21AX NOT = SPACES
123700 MOVE AVG-HGT-PLANT-INGR-V21AX
123800 TO AVG-HGT-PLANT-INGR-DL1A21
123900 MOVE "." TO AVG-HGT-PLANT-DEC-DL1A21
124000 MOVE AVG-HGT-PLANT-FRC-V21AX TO AVG-HGT-PLANT-FRC-DL1A21.
124100 MOVE CHARZD-NUM-V21AX TO CHARZD-NUM-DL1A21.
124200 IF AVG-LDR-LGT-V21AX NOT = SPACES
124300 MOVE AVG-LDR-LGT-INGR-V21AX TO AVG-LDR-LGT-INGR-DL1A21
124400 MOVE "." TO AVG-LDR-LGT-DEC-DL1A21

```

```

124500         MOVE AVG-LDR-LGT-FRC-V21AX TO AVG-LDR-LGT-FRC-DL1A21.
124600     IF AVG-CRN-DIA-V21AX NOT = SPACES
124700         MOVE AVG-CRN-DIA-INGR-V21AX TO AVG-CRN-DIA-INGR-DL1A21
124800         MOVE "." TO AVG-CRN-DIA-DEC-DL1A21
124900         MOVE AVG-CRN-DIA-FRC-V21AX TO AVG-CRN-DIA-FRC-DL1A21.
125000     MOVE CHARZD-NOT-NUM-V21AX TO CHARZD-NOT-NUM-DL1A21.
125100     MOVE MAST-CROPS-CD-V21AX TO MAST-CROPS-CD-DL1A21.
125200     GO TO 7100.
125300 6000.
125400     ADD 1 TO CNT-V3.
125500     IF FMT-CD-V11X NOT = "B"
125600         ADD 1 TO CNT-BAD-CODE
125700         DISPLAY "BAD REC CODE= " V11X
125800         GO TO 0100 .
125900*     ELSE DISPLAY V11X.
126000     IF PLANT-CD-V3XBX NOT = "BARREN " GO TO 6200.
126100     MOVE SPACES TO V3XBZ.
126200     MOVE ZERO TO PLOT-TOT-NUM-V3XBZ, PLOT-SIZ-EST-V3XBZ,
126300         HGT-CLS-CD-V3XBZ.
126400     MOVE PLANT-CD-V3XBX TO PLANT-CD-V3XBZ. MOVE 1 TO SS2A.
126500 6100.
126600     MOVE ZERO TO PHNO-STG-T-PROD-WGT-V3XBZ (SS2A).
126700     IF SS2A < 10 ADD 1 TO SS2A GO TO 6100. GO TO 7000.
126800 6200.
126900     MOVE PLANT-CD-V3XBX TO PLT-HLD.
127000     PERFORM 9900-PLT-CNV.
127100     MOVE PLT-HLD TO PLANT-CD-V3XBX.
127200     IF PLOT-TOT-NUM-V3XBX NOT NUMERIC
127300         OR PLOT-TOT-NUM-V3XBX NOT > ZERO
127400             MOVE 02ASTRKS-L TO PLOT-TOT-NUM-DL1B3B
127500             MOVE 1 TO DATA-FLG.
127600     MOVE PLOT-SIZ-EST-V3XBX TO PLOT-SIZ-EST-V3XBX-H.
127700     PERFORM 9800. IF INGR-FLG NOT ZERO
127800         MOVE 05ASTRKS-L TO PLOT-SIZ-EST-INGR-DL1B3B
127900         MOVE 1 TO DATA-FLG.
128000     IF FRC-FLG NOT ZERO
128100         MOVE 02ASTRKS-L TO PLOT-SIZ-EST-FRC-DL1B3B
128200         MOVE 1 TO DATA-FLG.
128300     MOVE PLANT-CD-V3XBX TO DE-CD-8822-DEC.
128400     PERFORM 9200. IF PLANT-CD-FLG NOT ZERO
128500         MOVE 07ASTRKS-L TO PLANT-CD-DL1B3B
128600         MOVE 1 TO DATA-FLG
128700     ELSE MOVE PLANT-TYP-H TO PLANT-TYP-V3XBZ.
128800     IF HGT-CLS-CD-V3XBZ < "1" OR > "4"
128900         MOVE 01ASTRK-L TO HGT-CLS-CD-DL1B3B
129000         MOVE 1 TO DATA-FLG. MOVE 1 TO SS2A.
129100 6300.
129200     MOVE GRP-V3XBZ (SS2A) TO GRP-V3XBZ-H.
129300     IF HRBG-PROD-WGT-V3XBZ-H = ZERO
129400         MOVE SPACES TO HRBG-PROD-WGT-V3XBZ-H.
129500     IF GRP-V3XBZ-H = SPACES
129600         MOVE ZERO TO PHNO-STG-T-PROD-WGT-V3XBZ (SS2A)
129700         GO TO 6400.
129800     IF HRBG-PROD-WGT-V3XBZ-H = SPACES
129900         MOVE ZERO TO HRBG-PROD-WGT-V3XBZ (SS2A)
130000     ELSE IF HRBG-PROD-WGT-V3XBZ-H NOT NUMERIC
130100         MOVE 04ASTRKS-L TO HRBG-PROD-WGT-DL1B3B (SS2A)

```

```

130200         MOVE 1 TO DATA-FLG.
130300     IF CLS-PLANT-AVAIL-V3XBX-H NOT =
130400         "A" AND "H" AND "L" AND "P" AND "U"
130500         MOVE 01ASTRK-L TO CLS-PLANT-AVAIL-DL1B3B (SS2A)
130600         MOVE 1 TO DATA-FLG.
130700     IF PHNO-STG-V3XBX-H < "1" OR > "8"
130800         MOVE 01ASTRK-L TO PHNO-STG-DL1B3B (SS2A)
130900         MOVE 1 TO DATA-FLG.
131000     IF CLS-PLANT-UTIL-V3XBX-H NOT NUMERIC
131100         OR CLS-PLANT-UTIL-V3XBX-H > "5"
131200         MOVE 01ASTRK-L TO CLS-PLANT-UTIL-DL1B3B (SS2A)
131300         MOVE 1 TO DATA-FLG.
131400 6400.
131500     IF SS2A < 10  ADD 1 TO SS2A  GO TO 6300.
131600     IF DATA-FLG ZERO
131700         MOVE PLOT-SIZ-EST-D3XBZ-H TO PLOT-SIZ-EST-V3XBZ
131800         MOVE SPACES TO PLOT-SIZ-FIL-V3XBZ  GO TO 7000.
131900     MOVE FMT-NUM-V11X TO FMT-NUM-DL1A.
132000     IF REC-TYP-T-FMT-CD-DL1A NOT = REC-TYP-T-FMT-CD-V11X
132100         MOVE COL-HDRA3B TO COL-HDR2A1
132200         MOVE COL-HDRB3B TO COL-HDR2B1
132300         MOVE COL-HDRC3B TO COL-HDR2C1
132400         MOVE 1 TO RITE-HDR-FLG.
132500     MOVE PLOT-TOT-NUM-V3XBX TO PLOT-TOT-NUM-DL1A3B.
132600     IF PLOT-SIZ-EST-V3XBX NOT = SPACES
132700         MOVE PLOT-SIZ-EST-INGR-V3XBX TO PLOT-SIZ-EST-INGR-DL1A3B
132800         MOVE "." TO PLOT-SIZ-EST-DEC-DL1A3B
132900         MOVE PLOT-SIZ-EST-FRC-V3XBX TO PLOT-SIZ-EST-FRC-DL1A3B.
133000     MOVE PLANT-CD-V3XBX TO PLANT-CD-DL1A3B.
133100     MOVE HGT-CLS-CD-V3XBX TO HGT-CLS-CD-DL1A3B.
133200     MOVE 1 TO SS2A.
133300 6500.
133400     MOVE GRP-V3XBX (SS2A) TO GRP2-DL1A3B (SS2A).
133500     IF SS2A < 10  ADD 1 TO SS2A  GO TO 6500.  GO TO 7100.
133600 7000.
133700     MOVE V11Z TO REC-D1.  WRITE REC-D1.
133800     ADD 1 TO OT-CNTR.  GO TO 0100.
133900 7100.
134000     MOVE REC-TYP-T-FMT-CD-V11X
134100         TO REC-TYP-T-FMT-CD-DL1A.
134200     MOVE ACTN-CD-V11X TO ACTN-CD-DL1A.
134300     MOVE LIN-NUM-V11X TO LIN-NUM-DL1A.
134400 7200.
134500     MOVE ZERO TO LIN-CNT.
134600     IF RITE-HDR-FLG NOT ZERO  ADD 4 TO LIN-CNT.
134700     IF RITE-KEY-FLG NOT ZERO  ADD 6 TO LIN-CNT
134800         IF KEY-FLG NOT ZERO  ADD 1 TO LIN-CNT.
134900     ADD 3 TO LIN-CNT.  ADD LIN-CNT TO LIN-CBK.
135000     IF LIN-CBK > 48  ADD 1 TO PAG-CNT
135100         MOVE PAG-CNT TO PAG-CNT-PH1  MOVE ZERO TO LIN-CBK
135200         MOVE 1 TO RITE-HDR-FLG  MOVE PAG-HDR1 TO REC-P1
135300         WRITE REC-P1 AFTER ADVANCING PAGE
135400         MOVE PAG-HDR2 TO REC-P1
135500         WRITE REC-P1 AFTER ADVANCING 2 LINES
135600         MOVE PAG-HDR3 TO REC-P1  WRITE REC-P1
135700         MOVE PAG-HDR4 TO REC-P1
135800         WRITE REC-P1 AFTER ADVANCING 2 LINES

```

```

135900         MOVE PAG-HDR5 TO REC-P1  WRITE REC-P1
136000         MOVE PAG-HDR6 TO REC-P1  WRITE REC-P1  GO TO 7200.
136100         IF RITE-KEY-FLG ZERO  GO TO 7400.
136200         MOVE ZERO TO RITE-KEY-FLG.
136300         MOVE COL-HDR1A TO REC-P1.
136400         WRITE REC-P1 AFTER ADVANCING 2 LINES.
136500         MOVE COL-HDR1B TO REC-P1.  WRITE REC-P1.
136600         MOVE COL-HDR1C TO REC-P1.  WRITE REC-P1.
136700         MOVE KEY-LIN1A TO REC-P1.
136800         WRITE REC-P1 AFTER ADVANCING 2 LINES.
136900         IF KEY-FLG NOT ZERO
137000             MOVE KEY-LIN1B TO REC-P1  WRITE REC-P1.
137100 7400.
137200         IF RITE-HDR-FLG NOT ZERO
137300             MOVE ZERO TO RITE-HDR-FLG
137400             MOVE COL-HDR2A TO REC-P1
137500             WRITE REC-P1 AFTER ADVANCING 2 LINES
137600             MOVE COL-HDR2B TO REC-P1  WRITE REC-P1
137700             MOVE COL-HDR2C TO REC-P1  WRITE REC-P1.
137800         MOVE DATA-LIN1A TO REC-P1.
137900         WRITE REC-P1 AFTER ADVANCING 2 LINES.
138000         MOVE DATA-LIN1B TO REC-P1.  WRITE REC-P1.
138100         MOVE SPACES TO DATA-LIN1A11, DATA-LIN1B11.
138200         ADD 1 TO PT-CNTR.  GO TO 0100.
138300 9200.
138400         MOVE DE-CD-8822-DEC TO PLT-SRC.
138500         MOVE ZERO TO PLANT-CD-FLG.  MOVE 2646 TO DE-NO-8801-DEC.
138600         FIND ANY CODE-DEC.
138700         IF DB-STATUS NOT = ZERO  MOVE 1 TO PLANT-CD-FLG
138800         ELSE GET CODE-DEC
138900             MOVE CODE-DEC TO CODE-DEC-H
139000             IF PLANT-TYP-H NOT = "F" AND "G" AND "S" AND "T"
139100                 MOVE 1 TO PLANT-CD-FLG.
139200         IF PLANT-CD-FLG = 1
139300             PERFORM 9910-PLT-STORE THRU 9940-EXIT.
139400 9600.
139500         MOVE ZERO TO FRC-FLG, INGR-FLG.
139600         EXAMINE INGR-FRC-H REPLACING ALL SPACES BY ZERO.
139700         IF INGR-H NOT NUMERIC  MOVE 1 TO INGR-FLG.
139800         IF FRC-H NOT NUMERIC  MOVE 1 TO FRC-FLG.
139900         IF FRC-FLG ZERO AND INGR-FLG ZERO
140000             ADD .05 TO INGR-3C-FRC-2C-H.
140100 9800.
140200         MOVE ZERO TO FRC-FLG, INGR-FLG.
140300         EXAMINE PLOT-SIZ-C3T7-V3XBX-H REPLACING ALL SPACES BY ZERO.
140400         IF PLOT-SIZ-C3T5-V3XBX-H NOT NUMERIC  MOVE 1 TO INGR-FLG.
140500         IF PLOT-SIZ-C6T7-V3XBX-H NOT NUMERIC  MOVE 1 TO FRC-FLG.
140600         IF PLOT-SIZ-EST-D3XBZ-H < .01  MOVE 1 TO FRC-FLG, INGR-FLG.
140700 9900-PLT-CNV.
140800         IF PLT-HLD = "MOSS  "
140900             MOVE "MMMM  " TO PLT-HLD.
141000         IF PLT-HLD = "RHRA  "
141100             MOVE "TORY  " TO PLT-HLD.
141200         IF PLT-HLD = "LICHEN "
141300             MOVE "SILEN  " TO PLT-HLD.
141400         IF PLT-HLD = "ARTRZ  "
141500             MOVE "ARTR2  " TO PLT-HLD.

```

```

141600     IF PLT-HLD = "CHDEZ  "
141700         MOVE "CHDE2  " TO PLT-HLD.
141800     IF PLT-HLD = "GIPOZ  "
141900         MOVE "GIPO2  " TO PLT-HLD.
142000     IF PLT-HLD = "CACR11 "
142100         MOVE "CHCR11 " TO PLT-HLD.
142200     IF PLT-HLD = "CACRLL "
142300         MOVE "CHCR11 " TO PLT-HLD.
142400     IF PLT-HLD = "HAARZ  "
142500         MOVE "HAAR2  " TO PLT-HLD.
142600     IF PLT-HLD = "TESPZ  "
142700         MOVE "TESP2  " TO PLT-HLD.
142800     IF PLT-HLD = "PHLOZ  "
142900         MOVE "PHLO2  " TO PLT-HLD.
143000     IF PLT-HLD = "POATT  "
143100         MOVE "POA++  " TO PLT-HLD.
143200     IF PLT-HLD = "POA    "
143300         MOVE "POA++  " TO PLT-HLD.
143400     IF PLT-HLD = "EULAS  "
143500         MOVE "EULA5  " TO PLT-HLD.
143600*     IF PLT-HLD = "X"
143700*         MOVE "Z" TO PLT-HLD.
143800     9910-PLT-STORE.
143900         MOVE 0 TO PLT-SUB.
144000     9920-LP.
144100         ADD 1 TO PLT-SUB.
144200         IF PLT-SUB > 200 GO TO 9940-EXIT.
144300         IF PLT-TB (PLT-SUB) = SPACE
144400             MOVE PLT-SRC TO PLT-TB (PLT-SUB)
144500             MOVE 1 TO PLT-CNT (PLT-SUB)
144600             GO TO 9940-EXIT.
144700         IF PLT-SRC = PLT-TB (PLT-SUB)
144800             ADD 1 TO PLT-CNT (PLT-SUB)
144900             GO TO 9940-EXIT.
145000         GO TO 9920-LP.
145100     9940-EXIT.
145200         EXIT.
145300     9950-WRAP-UP.
145400         MOVE 0 TO PLT-SUB.
145500     9960-LP.
145600         ADD 1 TO PLT-SUB.
145700         IF PLT-SUB > 200 GO TO 9970-STOP.
145800         IF PLT-TB (PLT-SUB) = SPACE GO TO 9970-STOP.
145900         DISPLAY PLT-TB (PLT-SUB) "    " PLT-CNT (PLT-SUB).
146000         GO TO 9960-LP.
146100     9970-STOP.
146200         DISPLAY "RECORDS OUT = ", OT-CNTR.
146300         DISPLAY "BAD RECORDS = ", PT-CNTR.
146400         DISPLAY "RECORDS IN = ", IN-CNTR.
146500         DISPLAY "V1 RECORDS = " CNT-V1.
146600         DISPLAY "V2 RECORDS = " CNT-V2.
146700         DISPLAY "V3 RECORDS = " CNT-V3.
146800         DISPLAY "BAD-PU-CNT = " CNT-BAD-PU.
146900         DISPLAY "BAD-ALOT-CNT= " CNT-BAD-PU.
147000         CLOSE FIL-I1, FIL-D1, FIL-P1
147100         FINISH DIC-DE
147200         STOP RUN.

```



000000\*-----  
000100 IDENTIFICATION DIVISION.  
000200 PROGRAM-ID. ES040X.  
000300\*           BUILDS WORK FILES FOR INPUT TO PLANT SUMMARY PROGRAM.  
000400\*  
000500 AUTHOR. RON BAKER.  
000600 DATE-WRITTEN. 05/05/80.  
000700 DATE-COMPILED.  
000800 ENVIRONMENT DIVISION.  
000900 CONFIGURATION SECTION.  
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.  
001100 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.  
001200 INPUT-OUTPUT SECTION.  
001300 FILE-CONTROL.  
001400       SELECT FILE-P1            ASSIGN TO P1  
001500            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
001600       SELECT FILE-D4            ASSIGN TO D4  
001700            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
001800       SELECT FILE-D1            ASSIGN TO D1  
001900            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
002000       SELECT FILE-D2            ASSIGN TO D2  
002100            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
002200       SELECT FILE-D3            ASSIGN TO D3  
002300            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
002400 DATA DIVISION.  
002500 FILE SECTION.  
002600 FD   FILE-D4  
002700       CODE-SET IS GBCD  
002800       LABEL RECORDS ARE STANDARD  
002900       DATA RECORD IS FDR-D4.  
003000 01  FDR-D4.  
003100       03  FILLER    PIC XXXX.  
003200       03  REC-TYP-D4   PIC XXXX.  
003300       03  FILLER        PIC X(134).  
003400       03  PAST-NUM-D4-IN   PIC XX.  
003500 FD  FILE-D1  
003600       CODE-SET IS GBCD  
003700       LABEL RECORDS ARE STANDARD  
003800       DATA RECORD IS FDR-D1.  
003900 01  FDR-D1            PIC X(102).  
004000 FD  FILE-D2  
004100       CODE-SET IS GBCD  
004200       LABEL RECORDS ARE STANDARD  
004300       DATA RECORD IS FDR-D2.  
004400 01  FDR-D2            PIC X(24).  
004500 FD  FILE-D3  
004600       CODE-SET IS GBCD  
004700       LABEL RECORDS ARE STANDARD  
004800       DATA RECORD IS FDR-D3.  
004900 01  FDR-D3            PIC X(126).  
005000 FD  FILE-P1  
005100       CODE-SET IS GBCD  
005200       LABEL RECORDS ARE STANDARD  
005300       DATA RECORD IS FDR-P1.  
005400 01  FDR-P1.  
005500       03  SH-P        PIC X(20).  
005600       03  RC-P        PIC X(112).

005700 WORKING-STORAGE SECTION.  
005800 77 SUB-03 PIC 99 VALUE ZERO.  
005900 77 REC-TYP-IN PIC 9 VALUE ZERO.  
006000 77 WORK-STATUS PIC XXX.  
006100 77 TAB-KEY-HLD PIC 99 VALUE ZERO.  
006200 77 BY-2-SW PIC 9 VALUE ZERO.  
006300 77 FIRST-RK9-SW PIC 9 VALUE ZERO.  
006400 77 BY-2-SW PIC 9 VALUE ZERO.  
006500 77 BY-SWAT-SW PIC 9 VALUE ZERO.  
006600 77 BAD-SW PIC 9 VALUE ZERO.  
006700 77 SUB-01 PIC 99 VALUE ZERO.  
006800 77 SUB-5 PIC 99 VALUE ZERO.  
006900 77 SLT-SUB PIC 99 VALUE ZERO.  
007000 77 TK-HLD PIC 99 VALUE ZERO.  
007100 77 SUB-02 PIC 99 VALUE ZERO.  
007200 77 SUB-GC PIC 99 VALUE ZERO.  
007300 77 SWAT-NO-REL PIC X(20) VALUE SPACE.  
007400 77 ALLOT-NUM-HLD PIC 9999.  
007500 COPY V11Z OF LIBRARY1.  
007600 01 REC-KEY9.  
007700 03 SDRP-RK9.  
007800 05 ADST-CD-RK9 PIC XX.  
007900 05 DIST-CD-RK9 PIC 99.  
008000 05 RA-CD-RK9 PIC 99.  
008100 05 PLU-CD-RK9 PIC 99.  
008200 03 SWAT-RK9 PIC X(6).  
008300 03 REC-KEY-RK9 PIC 9.  
008400 03 PLOTS-RK9 PIC 99.  
008500 03 FILLER PIC X(7).  
008600 01 CNTL-HLD.  
008700 03 SDRP-SH.  
008800 05 ADST-CD-SH PIC XX.  
008900 05 DIST-CD-SH PIC 99.  
009000 05 RA-CD-SH PIC 99.  
009100 05 PLU-CD-SH PIC 99.  
009200 03 ALLOT-NUM-SH PIC 9999.  
009300 03 PASTURE-NUM-SH PIC 99.  
009400 03 SWAT-SH.  
009500 05 SWA-SH.  
009600 07 SWA-CD PIC X.  
009700 07 SWA-NUM PIC 999.  
009800 05 TRN-NUM-SH PIC 99.  
009900 01 CNTL-D4.  
010000 03 SDRP-D4.  
010100 05 ADST-CD-D4 PIC XX.  
010200 05 DIST-CD-D4 PIC 99.  
010300 05 RA-CD-D4 PIC 99.  
010400 05 PLU-CD-D4 PIC 99.  
010500 03 ALLOT-NUM-D4 PIC 9999.  
010600 03 PASTURE-NUM-D4 PIC 99.  
010700 03 SWAT-D4.  
010800 05 SWA-D4.  
010900 07 SWA-CD-D4 PIC X.  
011000 07 SWA-NUM-D4 PIC 999.  
011100 05 TRN-NUM-D4 PIC 99.  
011200 COPY REC-KEY0 IN LIBRARY.  
011300 01 REC-KEY1.

011400 05 SWAT-RK1 PIC X(20).  
011500 05 REC-KEY-RK1 PIC 9(1).  
011600 05 VEG-SUB-TYPE-RK1 PIC 9(4).  
011700 05 SWA-PCT-RK1 PIC 9(3).  
011800 05 CMPR-ID-FLAG-RK1 PIC X(1).  
011900 05 SSF-GRP-RK1 PIC X(14).  
012000 05 SSF-VAL-RAT-RK1 REDEFINES SSF-GRP-RK1  
012100 OCCURS 7 TIMES PIC 9(2).  
012200 05 TYP-GC-HITS-GRP-RK1 PIC X(21).  
012300 05 TYP-GC-HITS-RK1 REDEFINES TYP-GC-HITS-GRP-RK1  
012400 OCCURS 7 TIMES PIC 9(3).  
012500 05 FILLER PIC X(38).  
012600 \*COPY REC-KEY1 IN LIBRARY.  
012700 COPY REC-KEY2 IN LIBRARY.  
012800 COPY REC-KEY3 IN LIBRARY.  
012900 COPY REC-K4V2 IN LIBRARY.  
013000 COPY REC-KEY5 IN LIBRARY.  
013100 COPY REC-KEY7 IN LIBRARY.  
013200 COPY REC-KEY8 IN LIBRARY.  
013300 COPY WDB01 IN LIBRARY.  
013400 COPY WDB02 IN LIBRARY.  
013500 COPY WDB03 IN LIBRARY.  
013600 \*COPY WDB05 IN LIBRARY.  
013700 01 WDB-05.  
013800 05 REC-NUM-V21A-WDB PIC 9(2).  
013900 05 LINE-NUM-V21A-WDB PIC 9(4).  
014000 05 PLANT-TYP-V21A-WDB PIC X(1).  
014100 05 PLANT-CD-V21A-WDB PIC X(7).  
014200 05 AGE-CLS-PLANT-V21A-WDB PIC X(1).  
014300 05 CLS-PLANT-AVAIL-V21A-WDB PIC X(1).  
014400 05 PLOT-SIZE-V21A-WDB PIC 9(1).  
014500 05 PLOT-NUM-V21A-WDB PIC 9(2).  
014600 05 FORM-CLS-PLANT-V21A-WDB PIC 9(1).  
014700 05 PHNO-STG-V21A-WDB PIC 9(1).  
014800 05 CLS-PLANT-UTIL-V21A-WDB PIC 9(1).  
014900 05 AVG-HGT-PLANT-V21A-WDB PIC 999V9.  
015000 05 CHARZD-NUM-V21A-WDB PIC 9(3).  
015100 05 AVG-CROWN-DIA-V21A-WDB PIC 99V9.  
015200 05 CHARZD-NOT-NUM-V21A-WDB PIC 9(3).  
015300 COPY WDB10-13 IN LIBRARY.  
015400 01 TYP-GC-HIT-TABLE.  
015500 03 TGH-TB PIC 999 OCCURS 7 TIMES.  
015600 01 SPECIES-LIST-TABLE.  
015700 03 S-L-TAB.  
015800 05 S-L-GP OCCURS 100.  
015900 07 SPEC-TYP-SL PIC X.  
016000 07 SPEC-SL PIC X(7).  
016100 03 S-L-TAB-RD REDEFINES S-L-TAB.  
016200 05 S-L-TB PIC X(80) OCCURS 10 TIMES.  
016300 01 PLOT-TABLE.  
016400 03 PLOT-TAB PIC 9 OCCURS 40 TIMES.  
016500 01 PLOT-SUB PIC 99 VALUE ZERO.  
016600 01 PLOT-CNT PIC 99 VALUE ZERO.  
016700 01 CNT-HLD.  
016800 03 CNT-1 PIC 9(8) VALUE ZERO.  
016900 03 CNT-2 PIC 9(8) VALUE ZERO.  
017000 03 CNT-3 PIC 9(8) VALUE ZERO.

```

017100      03  CNT-4  PIC 9(8)  VALUE ZERO.
017200      03  CNT-5  PIC 9(8)  VALUE ZERO.
017300      03  CNT-6  PIC 9(8)  VALUE 1.
017400 01  DISP-REC.
017500      03  DISP-1  PIC ZZ,ZZZ,ZZZ.
017600      03  FILLER  PIC X(12) VALUE " RECS IN      ".
017700      03  DISP-2  PIC ZZ,ZZZ,ZZZ.
017800      03  FILLER  PIC X(12) VALUE " TRANSECTS   ".
017900      03  DISP-3  PIC ZZ,ZZZ,ZZZ.
018000      03  FILLER  PIC X(12) VALUE " RECS OUT D3".
018100      03  DISP-4  PIC ZZ,ZZZ,ZZZ.
018200      03  FILLER  PIC X(12) VALUE " RECS OUT D1".
018300      03  DISP-5  PIC ZZ,ZZZ,ZZZ.
018400      03  FILLER  PIC X(12) VALUE " RECS OUT D2".
018500      03  DISP-6  PIC ZZ,ZZZ,ZZZ.
018600      03  FILLER  PIC X(12) VALUE " SWAT BREAK  ".
018700 01  RMK-REC.
018800      03  RMK-P   PIC X(8)  VALUE SPACE.
018900      03  DBS-P   PIC X(8).
019000      03  SWAT-P  PIC X(21).
019100 01  P-SPACE   PIC X(132) VALUE SPACE.
019200 PROCEDURE DIVISION.
019300 010-HOUSEKEEPING.
019400      OPEN OUTPUT FILE-D1 FILE-D3 FILE-P1 FILE-D2.
019500      OPEN INPUT FILE-D4.
019600      MOVE SPACE TO RMK-REC CNTL-HLD REC-KEY9.
019700      INITIALIZE WDB-01 WDB-02 WDB-03
019800          PLOT-TABLE
019900          WDB-05 WDB-10-13
020000          TYP-GC-HIT-TABLE SPECIES-LIST-TABLE.
020100 300-FIND-SWAT-CONN.
020200      INITIALIZE TAB-KEY-HLD TYP-GC-HIT-TABLE
020300      SLT-SUB SPECIES-LIST-TABLE.
020400 301-READ.
020500      READ FILE-D4 INTO V11Z AT END
020600          PERFORM 900-BUILD-REC-1 THRU 930-EXIT
020700          GO TO 940-DISPLAY.
020800      ADD 1 TO CNT-1.
020900      MOVE ADST-CD-V11Z TO ADST-CD-D4.
021000      MOVE DIST-CD-V11Z TO DIST-CD-D4.
021100      MOVE PLU-CD-V11Z TO PLU-CD-D4.
021200      MOVE RA-CD TO RA-CD-D4.
021300      MOVE ALLOT-NUM-V11Z TO ALLOT-NUM-D4.
021400      IF PAST-NUM-D4-IN NOT = SPACE
021500          MOVE PAST-NUM-D4-IN TO PASTURE-NUM-D4
021600          ELSE
021700              MOVE ZERO TO PASTURE-NUM-D4.
021800      MOVE SWA-V11Z TO SWA-D4.
021900      MOVE TRN-NUM-V11Z TO TRN-NUM-D4.
022000      IF CNTL-HLD = SPACE
022100          MOVE CNTL-D4 TO CNTL-HLD.
022200      IF CNTL-HLD NOT = CNTL-D4
022300          ADD 1 TO CNT-6
022400          MOVE ZERO TO FIRST-RK9-SW
022500          PERFORM 900-BUILD-REC-1 THRU 930-EXIT
022600          MOVE CNTL-D4 TO CNTL-HLD.
022700 301-PROCESS.

```

```

022800     IF (REC-TYP-D4 = "V11A") MOVE 1 TO REC-TYP-IN.
022900     IF (REC-TYP-D4 = "V12A") MOVE 2 TO REC-TYP-IN.
023000     IF (REC-TYP-D4 = "V13A") MOVE 3 TO REC-TYP-IN.
023100     IF (REC-TYP-D4 = "V14A") MOVE 4 TO REC-TYP-IN.
023200     IF (REC-TYP-D4 = "V21A") MOVE 5 TO REC-TYP-IN.
023300     IF (REC-TYP-D4 = "V31B") MOVE 7 TO REC-TYP-IN.
023400     IF (REC-TYP-D4 = "V32B") MOVE 7 TO REC-TYP-IN.
023500     IF (REC-TYP-D4 = "V33B") MOVE 7 TO REC-TYP-IN.
023600     IF (REC-TYP-D4 = "V34B") MOVE 7 TO REC-TYP-IN.
023700     IF REC-TYP-IN NOT = 1
023800         GO TO 420-CK-REC.
023900 302-BUILD-V11.
024000     ADD 1 TO CNT-2.
024100     MOVE SPACE TO WDB-01.
024200     MOVE ADST-CD-V11Z TO ADST-SI-WDB.
024300     MOVE DIST-CD-V11Z TO DIST-SI-WDB.
024400     MOVE PLU-CD-V11Z TO PLU-SI-WDB.
024500     MOVE RA-CD TO RA-SI-WDB.
024600     MOVE SWA-V11Z TO SWA-SI-WDB.
024700     MOVE TRN-NUM-V11Z TO TRN-NUM-SI-WDB.
024800     MOVE ALLOT-NUM-SH TO ALLOT-NUM-WDB.
024900     MOVE PASTURE-NUM-SH TO PASTURE-NUM-WDB.
025000     MOVE SPACE TO SWAT-BRWD-WDB.
025100     IF (REC-TYP-IN = 1) AND
025200         (ADST-CD-V11AZ NOT = SPACE)
025300         MOVE "C" TO CMPR-ID-FLAG-WDB
025400         ELSE MOVE "S" TO CMPR-ID-FLAG-WDB.
025500 302-GO-TO.
025600     GO TO 301-READ.
025700 420-CK-REC.
025800     IF ADST-SI-WDB = SPACE
025900         PERFORM 302-BUILD-V11.
026000     IF REC-TYP-IN = 3 GO TO 423-REC-V13.
026100     IF REC-TYP-IN = 4 GO TO 424-REC-V14.
026200     IF REC-TYP-IN = 5 GO TO 425-REC-V21.
026300     IF REC-TYP-IN = 7 GO TO 427-REC-V3B.
026400     MOVE SPACE TO WDB-02.
026500         MOVE LINE-NUM-V11Z TO LINE-NUM-V12A-WDB
026600         MOVE 02 TO REC-NUM-V12A-WDB
026700         MOVE GRP-V12AZ (1) TO GRP-2-V12A-WDB (1)
026800         MOVE GRP-V12AZ (2) TO GRP-2-V12A-WDB (2)
026900         MOVE GRP-V12AZ (3) TO GRP-2-V12A-WDB (3)
027000         MOVE GRP-V12AZ (4) TO GRP-2-V12A-WDB (4)
027100         MOVE TYP-GC-CD-V12AZ TO TYP-GC-CD-V12A-WDB
027200         MOVE TYP-GC-HITS-V12AZ TO TYP-GC-HITS-V12A-WDB
027300         PERFORM 750-PROC-REC-02 THRU 770-EXIT.
027400     GO TO 301-READ.
027500 423-REC-V13.
027600     MOVE SPACE TO WDB-03.
027700         MOVE LINE-NUM-V11Z TO LINE-NUM-V13A-WDB
027800         MOVE 03 TO REC-NUM-V13A-WDB
027900         MOVE TYP-GC-HITS-V13AZ (1) TO TYP-GC-HITS-V13A-WDB (1)
028000         MOVE TYP-GC-HITS-V13AZ (2) TO TYP-GC-HITS-V13A-WDB (2)
028100         MOVE PLANT-CD-BL-V13AZ (1) TO PLANT-CD-BL-V13A-WDB (1)
028200         MOVE PLANT-CD-BL-V13AZ (2) TO PLANT-CD-BL-V13A-WDB (2)
028300         MOVE PLANT-CD-C1-V13AZ (1) TO PLANT-CD-V13A-WDB (1 1)
028400         MOVE PLANT-CD-C1-V13AZ (2) TO PLANT-CD-V13A-WDB (2 1)

```

```

028500      MOVE PLANT-CD-C2-V13AZ (1) TO PLANT-CD-V13A-WDB (1 2)
028600      MOVE PLANT-CD-C2-V13AZ (2) TO PLANT-CD-V13A-WDB (2 2)
028700      MOVE PLANT-CD-C3-V13AZ (1) TO PLANT-CD-V13A-WDB (1 3)
028800      MOVE PLANT-CD-C3-V13AZ (2) TO PLANT-CD-V13A-WDB (2 3)
028900      MOVE LEV-TRN-HIT-BL-V13AZ (1) TO LEV-TRN-HIT-BL-V13A-WDB (1)
029000      MOVE LEV-TRN-HIT-BL-V13AZ (2) TO LEV-TRN-HIT-BL-V13A-WDB (2)
029100      MOVE LEV-TRN-HIT-C1-V13AZ (1) TO LEV-TRN-HIT-V13A-WDB (1 1)
029200      MOVE LEV-TRN-HIT-C1-V13AZ (2) TO LEV-TRN-HIT-V13A-WDB (2 1)
029300      MOVE LEV-TRN-HIT-C2-V13AZ (1) TO LEV-TRN-HIT-V13A-WDB (1 2)
029400      MOVE LEV-TRN-HIT-C2-V13AZ (2) TO LEV-TRN-HIT-V13A-WDB (2 2)
029500      MOVE LEV-TRN-HIT-C3-V13AZ (1) TO LEV-TRN-HIT-V13A-WDB (1 3)
029600      MOVE LEV-TRN-HIT-C3-V13AZ (2) TO LEV-TRN-HIT-V13A-WDB (2 3)
029700      PERFORM 500-BUILD-REC-3 THRU 520-EXIT.
029800      GO TO 301-READ.
029900 424-REC-V14.
030000      MOVE SSF-VAL-RAT-V14AZ (1) TO SSF-VAL-RAT-WDB (1).
030100      MOVE SSF-VAL-RAT-V14AZ (2) TO SSF-VAL-RAT-WDB (2).
030200      MOVE SSF-VAL-RAT-V14AZ (3) TO SSF-VAL-RAT-WDB (3).
030300      MOVE SSF-VAL-RAT-V14AZ (4) TO SSF-VAL-RAT-WDB (4).
030400      MOVE SSF-VAL-RAT-V14AZ (5) TO SSF-VAL-RAT-WDB (5).
030500      MOVE SSF-VAL-RAT-V14AZ (6) TO SSF-VAL-RAT-WDB (6).
030600      MOVE SSF-VAL-RAT-V14AZ (7) TO SSF-VAL-RAT-WDB (7).
030700      GO TO 301-READ.
030800 425-REC-V21.
030900      MOVE SPACE TO WDB-05.
031000      MOVE LINE-NUM-V11Z TO LINE-NUM-V21A-WDB.
031100      MOVE 05 TO REC-NUM-V13A-WDB.
031200      MOVE PLOT-SIZE-V21AZ TO PLOT-SIZE-V21A-WDB.
031300      MOVE PLOT-NUM-V21AZ TO PLOT-NUM-V21A-WDB.
031400      MOVE CHARZD-NUM-V21AZ TO CHARZD-NUM-V21A-WDB.
031500      MOVE PLANT-CD-V21AZ TO PLANT-CD-V21A-WDB.
031600      IF PLANT-CD-V21AZ = "BARREN "
031700          PERFORM 600-BUILD-RECS-0-6-7 THRU 600-EXIT
031800          GO TO 301-READ.
031900      MOVE PLANT-TYP-V21AZ TO PLANT-TYP-V21A-WDB.
032000      MOVE AGE-CLS-PLANT-V21AZ TO AGE-CLS-PLANT-V21A-WDB.
032100      MOVE CLS-PLANT-AVAIL-V21AZ TO CLS-PLANT-AVAIL-V21A-WDB.
032200      MOVE FORM-CLS-PLANT-V21AZ TO FORM-CLS-PLANT-V21A-WDB.
032300      MOVE PHNO-STG-V21AZ TO PHNO-STG-V21A-WDB.
032400      MOVE CLS-PLANT-UTIL-V21AZ TO CLS-PLANT-UTIL-V21A-WDB.
032500      MOVE AVG-HGT-PLANT-V21AZ TO AVG-HGT-PLANT-V21A-WDB.
032600      MOVE AVG-CRN-DIA-V21AZ TO AVG-CROWN-DIA-V21A-WDB.
032700      MOVE CHARZD-NOT-NUM-V21AZ TO CHARZD-NOT-NUM-V21A-WDB.
032800      PERFORM 600-BUILD-RECS-0-6-7 THRU 600-EXIT.
032900      GO TO 301-READ.
033000 427-REC-V3B.
033100      IF PLANT-CD-V3XBZ = "BARREN "
033200          INITIALIZE WDB-10-13 ELSE
033300          MOVE SPACE TO WDB-10-13.
033400      MOVE LINE-NUM-V11Z TO LINE-NUM-V3XB-WDB.
033500      IF (REC-TYP-D4 = "V31B") MOVE 10 TO REC-NUM-V3XB-WDB.
033600      IF (REC-TYP-D4 = "V32B") MOVE 11 TO REC-NUM-V3XB-WDB.
033700      IF (REC-TYP-D4 = "V33B") MOVE 12 TO REC-NUM-V3XB-WDB.
033800      IF (REC-TYP-D4 = "V34B") MOVE 13 TO REC-NUM-V3XB-WDB.
033900*      MOVE 10 TO REC-NUM-V3XB-WDB.
034000      MOVE PLANT-CD-V3XBZ TO PLANT-CD-V3XB-WDB.
034100      MOVE PLOT-TOT-NUM-V3XBZ TO PLOT-TOT-NUM-V3XB-WDB.

```

034200 MOVE PLOT-SIZ-EST-V3XBZ TO PLOT-SIZ-EST-V3XB-WDB.  
034300 IF PLANT-CD-V3XB-WDB = "BARREN "  
034400 PERFORM 700-BUILD-REC-5 THRU 720-EXIT  
034500 GO TO 301-READ.  
034600 MOVE PLANT-TYP-V3XBZ TO PLANT-TYP-V3XB-WDB.  
034700 MOVE HGT-CLS-CD-V3XBZ TO HGT-CLS-CD-V3XB-WDB.  
034800 MOVE PHNO-STG-V3XBZ (1) TO PHNO-STG-V3XB-WDB (1).  
034900 MOVE PHNO-STG-V3XBZ (2) TO PHNO-STG-V3XB-WDB (2)  
035000 MOVE PHNO-STG-V3XBZ (3) TO PHNO-STG-V3XB-WDB (3)  
035100 MOVE PHNO-STG-V3XBZ (4) TO PHNO-STG-V3XB-WDB (4)  
035200 MOVE PHNO-STG-V3XBZ (5) TO PHNO-STG-V3XB-WDB (5)  
035300 MOVE PHNO-STG-V3XBZ (6) TO PHNO-STG-V3XB-WDB (6)  
035400 MOVE PHNO-STG-V3XBZ (7) TO PHNO-STG-V3XB-WDB (7)  
035500 MOVE PHNO-STG-V3XBZ (8) TO PHNO-STG-V3XB-WDB (8)  
035600 MOVE PHNO-STG-V3XBZ (9) TO PHNO-STG-V3XB-WDB (9)  
035700 MOVE PHNO-STG-V3XBZ (10) TO PHNO-STG-V3XB-WDB (10).  
035800 MOVE CLS-PLANT-UTIL-V3XBZ (1) TO CLS-PLANT-UTIL-V3XB-WDB (1)  
035900 MOVE CLS-PLANT-UTIL-V3XBZ (2) TO CLS-PLANT-UTIL-V3XB-WDB (2)  
036000 MOVE CLS-PLANT-UTIL-V3XBZ (3) TO CLS-PLANT-UTIL-V3XB-WDB (3)  
036100 MOVE CLS-PLANT-UTIL-V3XBZ (4) TO CLS-PLANT-UTIL-V3XB-WDB (4)  
036200 MOVE CLS-PLANT-UTIL-V3XBZ (5) TO CLS-PLANT-UTIL-V3XB-WDB (5)  
036300 MOVE CLS-PLANT-UTIL-V3XBZ (6) TO CLS-PLANT-UTIL-V3XB-WDB (6)  
036400 MOVE CLS-PLANT-UTIL-V3XBZ (7) TO CLS-PLANT-UTIL-V3XB-WDB (7)  
036500 MOVE CLS-PLANT-UTIL-V3XBZ (8) TO CLS-PLANT-UTIL-V3XB-WDB (8)  
036600 MOVE CLS-PLANT-UTIL-V3XBZ (9) TO CLS-PLANT-UTIL-V3XB-WDB (9)  
036700 MOVE CLS-PLANT-UTIL-V3XBZ (10) TO  
036800 CLS-PLANT-UTIL-V3XB-WDB (10)  
036900 MOVE HRBG-PROD-WGT-V3XBZ (1) TO HRBG-PROD-WGT-V3XB-WDB (1)  
037000 MOVE HRBG-PROD-WGT-V3XBZ (2) TO HRBG-PROD-WGT-V3XB-WDB (2)  
037100 MOVE HRBG-PROD-WGT-V3XBZ (3) TO HRBG-PROD-WGT-V3XB-WDB (3)  
037200 MOVE HRBG-PROD-WGT-V3XBZ (4) TO HRBG-PROD-WGT-V3XB-WDB (4)  
037300 MOVE HRBG-PROD-WGT-V3XBZ (5) TO HRBG-PROD-WGT-V3XB-WDB (5)  
037400 MOVE HRBG-PROD-WGT-V3XBZ (6) TO HRBG-PROD-WGT-V3XB-WDB (6)  
037500 MOVE HRBG-PROD-WGT-V3XBZ (7) TO HRBG-PROD-WGT-V3XB-WDB (7)  
037600 MOVE HRBG-PROD-WGT-V3XBZ (8) TO HRBG-PROD-WGT-V3XB-WDB (8)  
037700 MOVE HRBG-PROD-WGT-V3XBZ (9) TO HRBG-PROD-WGT-V3XB-WDB (9)  
037800 MOVE HRBG-PROD-WGT-V3XBZ (10) TO HRBG-PROD-WGT-V3XB-WDB (10)  
037900 MOVE CLS-PLANT-AVAIL-V3XBZ (1) TO  
038000 CLS-PLANT-AVAIL-V3XB-WDB (1)  
038100 MOVE CLS-PLANT-AVAIL-V3XBZ (2) TO  
038200 CLS-PLANT-AVAIL-V3XB-WDB (2)  
038300 MOVE CLS-PLANT-AVAIL-V3XBZ (3) TO  
038400 CLS-PLANT-AVAIL-V3XB-WDB (3)  
038500 MOVE CLS-PLANT-AVAIL-V3XBZ (4) TO  
038600 CLS-PLANT-AVAIL-V3XB-WDB (4)  
038700 MOVE CLS-PLANT-AVAIL-V3XBZ (5) TO  
038800 CLS-PLANT-AVAIL-V3XB-WDB (5)  
038900 MOVE CLS-PLANT-AVAIL-V3XBZ (6) TO  
039000 CLS-PLANT-AVAIL-V3XB-WDB (6)  
039100 MOVE CLS-PLANT-AVAIL-V3XBZ (7) TO  
039200 CLS-PLANT-AVAIL-V3XB-WDB (7)  
039300 MOVE CLS-PLANT-AVAIL-V3XBZ (8) TO  
039400 CLS-PLANT-AVAIL-V3XB-WDB (8)  
039500 MOVE CLS-PLANT-AVAIL-V3XBZ (9) TO  
039600 CLS-PLANT-AVAIL-V3XB-WDB (9)  
039700 MOVE CLS-PLANT-AVAIL-V3XBZ (10) TO  
039800 CLS-PLANT-AVAIL-V3XB-WDB (10).

```

039900     PERFORM 700-BUILD-REC-5 THRU 720-EXIT.
040000     GO TO 301-READ.
040100 500-BUILD-REC-3.
040200     MOVE SPACE TO REC-KEY3.
040300     MOVE ZERO TO SUB-03.
040400     MOVE CNTL-HLD TO SWAT-RK3.
040500     MOVE 3 TO REC-KEY-RK3.
040600 510-LP-TB.
040700     IF SUB-03 = 02
040800         GO TO 520-EXIT.
040900     ADD 1 TO SUB-03.
041000     IF PLANT-CD-BL-V13A-WDB (SUB-03) NOT = SPACE
041100         MOVE PLANT-CD-BL-V13A-WDB (SUB-03) TO
041200             PLANT-CD-BL-RK3
041300         MOVE LEV-TRN-HIT-BL-V13A-WDB (SUB-03) TO
041400             LEV-TRN-HIT-BL-RK3
041500         MOVE PLANT-GRP-1-V13A-WDB (SUB-03) TO GRP-1-RK3
041600         MOVE TYP-GC-HITS-V13A-WDB (SUB-03) TO TYP-GC-HITS-RK3
041700         WRITE FDR-D1 FROM REC-KEY3
041800         ADD 1 TO CNT-4
041900         GO TO 510-LP-TB.
042000 520-EXIT.
042100     EXIT.
042200 600-BUILD-RECS-0-6-7.
042300     MOVE SPACE TO REC-KEY0.
042400     IF PLANT-CD-V21A-WDB = "BARREN "
042500         INITIALIZE REC-KEY0.
042600     MOVE CNTL-HLD TO SWAT-RK0.
042700     MOVE 0 TO REC-KEY-RK0.
042800     MOVE "V2" TO REC-TYP-RK0.
042900     MOVE 1 TO FMT-NUM-RK0.
043000     MOVE "A" TO FMT-CD-RK0.
043100     ADD 1 TO TAB-KEY-HLD.
043200     MOVE TAB-KEY-HLD TO TAB-KEY-0.
043300     MOVE PLANT-CD-V21A-WDB TO SPECIES-KEY-0 PLANT-CD-RK0.
043400     MOVE CHARZD-NUM-V21A-WDB TO CHARZD-NUM-RK0.
043500     MOVE PLOT-SIZE-V21A-WDB TO PLOT-SIZE-0.
043600     MOVE PLOT-NUM-V21A-WDB TO PLOT-NUM-RK0 PLOT-NUM-KEY-0.
043700     IF PLANT-CD-V21A-WDB = "BARREN "
043800         GO TO 600-WR-REC-KEY-0.
043900     MOVE AGE-CLS-PLANT-V21A-WDB TO AGE-CLS-PLANT-RK0.
044000     MOVE FORM-CLS-PLANT-V21A-WDB TO FORM-CLS-PLANT-RK0.
044100     MOVE PHNO-STG-V21A-WDB TO PHNO-STG-RK0.
044200     MOVE CLS-PLANT-AVAIL-V21A-WDB TO CLS-PLANT-AVAIL-RK0.
044300     MOVE CLS-PLANT-UTIL-V21A-WDB TO CLS-PLANT-UTIL-RK0.
044400     MOVE AVG-HGT-PLANT-V21A-WDB TO AVG-HGT-PLANT-RK0.
044500     MOVE AVG-CROWN-DIA-V21A-WDB TO AVG-CROWN-DIA-RK0.
044600     MOVE CHARZD-NOT-NUM-V21A-WDB TO CHARZD-NOT-NUM-RK0.
044700     MOVE PLANT-TYP-V21A-WDB TO PLANT-TYP-RK0.
044800 600-WR-REC-KEY-0.
044900     IF ((PLOT-NUM-KEY-0 > ZERO) AND
045000         (PLANT-CD-V21A-WDB NOT = "BARREN ")) OR
045100         ((PLOT-NUM-KEY-0 > ZERO) AND
045200         (PLANT-CD-V21A-WDB = "BARREN ") AND
045300         (CHARZD-NUM-V21A-WDB > ZERO))
045400         MOVE 1 TO PLOT-TAB (PLOT-NUM-KEY-0).
045500     IF PLANT-CD-V21A-WDB = "BARREN "

```



```

045600         GO TO 600-EXIT.
045700         WRITE FDR-D3 FROM REC-KEY0.
045800         ADD 1 TO CNT-3.
045900         MOVE 6 TO REC-KEY-RK0.
046000         MOVE FORM-CLS-PLANT-RK0 TO FORM-CLS-KEY-6.
046100         MOVE PLOT-NUM-RK0 TO PLOT-NUM-KEY-6.
046200         WRITE FDR-D3 FROM REC-KEY0.
046300         ADD 1 TO CNT-3.
046400         MOVE 7 TO REC-KEY-RK0.
046500         MOVE AGE-CLS-PLANT-RK0 TO AGE-CLS-KEY-7.
046600         WRITE FDR-D3 FROM REC-KEY0.
046700         ADD 1 TO CNT-3.
046800 600-EXIT.
046900         EXIT.
047000 700-BUILD-REC-5.
047100         IF PLANT-CD-V3XB-WDB = "BARREN "
047200             INITIALIZE REC-KEY5 ELSE
047300             MOVE SPACE TO REC-KEY5.
047400         IF FIRST-RK9-SW = ZERO
047500*            AND (PLANT-CD-V3XB-WDB NOT = "BARREN ")
047600             MOVE 1 TO FIRST-RK9-SW
047700             MOVE SPACE TO REC-KEY9
047800             MOVE SDRP-SH TO SDRP-RK9
047900             MOVE 9 TO REC-KEY-RK9
048000             MOVE SWAT-SH TO SWAT-RK9
048100             MOVE PLOT-TOT-NUM-V3XB-WDB TO PLOTS-RK9
048200             ADD 1 TO CNT-5
048300             WRITE FDR-D2 FROM REC-KEY9.
048400         MOVE CNTL-HLD TO SWAT-RK5.
048500         MOVE 5 TO REC-KEY-RK5.
048600         MOVE "V3" TO REC-TYP-RK5.
048700         MOVE "B" TO FMT-CD-RK5.
048800         MOVE PLANT-CD-V3XB-WDB TO PLANT-CD-RK5 SPECIES-KEY-RK5.
048900         MOVE PLOT-TOT-NUM-V3XB-WDB TO PLOT-TOT-NUM-RK5.
049000         MOVE PLOT-SIZ-EST-V3XB-WDB TO PLOT-SIZ-EST-RK5.
049100         IF REC-NUM-V3XB-WDB = 10 MOVE 1 TO FMT-NUM-RK5.
049200         IF REC-NUM-V3XB-WDB = 11 MOVE 2 TO FMT-NUM-RK5.
049300         IF REC-NUM-V3XB-WDB = 12 MOVE 3 TO FMT-NUM-RK5.
049400         IF REC-NUM-V3XB-WDB = 13 MOVE 4 TO FMT-NUM-RK5.
049500         IF PLANT-CD-V3XB-WDB = "BARREN "
049600             MOVE "ZZBAREN" TO PLANT-CD-RK5 SPECIES-KEY-RK5
049700             WRITE FDR-D3 FROM REC-KEY5
049800             ADD 1 TO CNT-3
049900             GO TO 720-EXIT.
050000         MOVE HGT-CLS-CD-V3XB-WDB TO HGT-CLS-CD-RK5.
050100         MOVE PLANT-TYP-V3XB-WDB TO PLANT-TYP-RK5.
050200         MOVE ZERO TO SUB-5.
050300 710-LP-PLOT.
050400         ADD 1 TO SUB-5.
050500         IF SUB-5 > 10
050600             WRITE FDR-D3 FROM REC-KEY5
050700             ADD 1 TO CNT-3
050800             GO TO 720-EXIT.
050900         MOVE GRP-2-V3XB-WDB (SUB-5) TO GRP-3-RK5 (SUB-5).
051000         MOVE CLS-PLANT-AVAIL-V3XB-WDB (SUB-5) TO
051100             CLS-PLANT-AVAIL-RK5 (SUB-5).
051200         GO TO 710-LP-PLOT.

```

```

051300 720-EXIT.
051400     EXIT.
051500 750-PROC-REC-02.
051600     MOVE ZERO TO SUB-02.
051700     MOVE 0 TO SUB-GC.
051800     IF (TYP-GC-HITS-V12A-WDB) > ZERO
051900         IF TYP-GC-CD-V12A-WDB = "B" MOVE 1 TO SUB-GC ELSE
052000         IF TYP-GC-CD-V12A-WDB = "P" MOVE 2 TO SUB-GC ELSE
052100         IF TYP-GC-CD-V12A-WDB = "N" MOVE 3 TO SUB-GC ELSE
052200         IF TYP-GC-CD-V12A-WDB = "G" MOVE 4 TO SUB-GC ELSE
052300         IF TYP-GC-CD-V12A-WDB = "C" MOVE 5 TO SUB-GC ELSE
052400         IF TYP-GC-CD-V12A-WDB = "S" MOVE 6 TO SUB-GC ELSE
052500         IF TYP-GC-CD-V12A-WDB = "R" MOVE 7 TO SUB-GC.
052600     IF SUB-GC > ZERO
052700         MOVE TYP-GC-HITS-V12A-WDB TO TGH-TB (SUB-GC).
052800 760-LP-TB.
052900     ADD 1 TO SUB-02.
053000     IF SUB-02 > 4
053100         GO TO 770-EXIT.
053200     IF PLANT-CD-V12A-WDB (SUB-02) = SPACE
053300         GO TO 760-LP-TB.
053400     ADD 1 TO SLT-SUB.
053500     MOVE PLANT-TYP-V12A-WDB (SUB-02) TO SPEC-TYP-SL (SLT-SUB).
053600     MOVE PLANT-CD-V12A-WDB (SUB-02) TO SPEC-SL (SLT-SUB).
053700     GO TO 760-LP-TB.
053800 770-EXIT.
053900     EXIT.
054000 800-EXIT.
054100     EXIT.
054200 900-BUILD-REC-1.
054300     MOVE SPACE TO REC-KEY1.
054400     MOVE CNTL-HLD TO SWAT-RK1.
054500     MOVE 1 TO REC-KEY-RK1.
054600     MOVE ZERO TO VEG-SUB-TYPE-RK1 SWA-PCT-RK1.
054700     MOVE CMPR-ID-FLAG-WDB TO CMPR-ID-FLAG-RK1.
054800     MOVE TYP-GC-HIT-TABLE TO TYP-GC-HITS-GRP-RK1.
054900     INITIALIZE TYP-GC-HIT-TABLE.
055000     MOVE SSF-GRP-WDB TO SSF-GRP-RK1.
055100     WRITE FDR-D1 FROM REC-KEY1.
055200     ADD 1 TO CNT-4.
055300     MOVE SPACE TO WDB-01.
055400*    GO TO 925-PLOT-CNT.
055500 910-BUILD-REC-2.
055600     MOVE ZERO TO SLT-SUB.
055700 920-LP-TB.
055800     IF SLT-SUB = 10
055900         INITIALIZE SPECIES-LIST-TABLE
056000         GO TO 925-PLOT-CNT.
056100     MOVE SPACE TO REC-KEY2.
056200     MOVE CNTL-HLD TO SWAT-RK2.
056300     MOVE 2 TO REC-KEY-RK2.
056400     ADD 1 TO SLT-SUB.
056500     IF S-L-TB (SLT-SUB) = SPACE
056600         GO TO 920-LP-TB.
056700     MOVE S-L-TB (SLT-SUB) TO GRP-1-RK2
056800     WRITE FDR-D1 FROM REC-KEY2
056900     ADD 1 TO CNT-4.

```

```

057000      GO TO 920-LP-TB.
057100 925-PLOT-CNT.
057200      MOVE SPACE TO SPECIES-KEY-0.
057300      MOVE 0 TO REC-KEY-RK0.
057400      MOVE ZERO TO PLOT-SUB, PLOT-CNT.
057500 925-LP.
057600      ADD 1 TO PLOT-SUB.
057700      IF PLOT-SUB > 40
057800          MOVE PLOT-CNT TO PLOT-NUM-KEY-0
057900          MOVE SPACE TO PLANT-CD-RK0
058000          WRITE FDR-D3 FROM REC-KEY0
058100          ADD 1 TO CNT-3
058200          INITIALIZE PLOT-TABLE
058300          PLOT-SUB PLOT-CNT
058400          GO TO 930-EXIT.
058500      IF PLOT-TAB (PLOT-SUB) > ZERO
058600          ADD 1 TO PLOT-CNT.
058700      GO TO 925-LP.
058800 930-EXIT.
058900      EXIT.
059000 940-DISPLAY.
059100      MOVE CNT-1 TO DISP-1.
059200      MOVE CNT-2 TO DISP-2.
059300      MOVE CNT-3 TO DISP-3.
059400      MOVE CNT-4 TO DISP-4.
059500      MOVE CNT-5 TO DISP-5.
059600      MOVE CNT-6 TO DISP-6.
059700      DISPLAY DISP-REC.
059800      GO TO 990-END.
059900 950-EXIT.
060000      EXIT.
060100 990-END.
060200      CLOSE FILE-D4.
060300      CLOSE FILE-D1 FILE-D3 FILE-P1 FILE-D2.
060400      STOP RUN.
060500 XXXXXX.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES050P.
000300*      CREATES PLANT SUMMARY FILE
000400*
000500 AUTHOR. RON BAKER.
000600 DATE-WRITTEN. 04/24/79.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400      SELECT FILE-D7      ASSIGN TO D7
001500          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600      SELECT FILE-D8      ASSIGN TO D8
001700          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800      SELECT FILE-P1      ASSIGN TO P1
001900          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000 DATA DIVISION.

```

002100 SUB-SCHEMA SECTION.  
002200 DB CODVAL2 WITHIN BLMDIC.  
002300 FILE SECTION.  
002400 FD FILE-D7  
002500 CODE-SET IS GBCD  
002600 LABEL RECORDS ARE STANDARD  
002700 DATA RECORD IS FDR-D7.  
002800 01 FDR-D7.  
002900 03 SWAT-CNTL-D7.  
003000 05 SDRP-D7.  
003100 07 SD-D7.  
003200 09 ST-D7 PIC XX.  
003300 09 DS-D7 PIC XX.  
003400 07 FILLER PIC X(4).  
003500 05 FILLER PIC X(12).  
003600 03 REC-KEY-D7 PIC 9.  
003700 03 REC-TYP-D7 PIC X(2).  
003800 03 FMT-NUM-D7 PIC 9.  
003900 03 FMT-CD-D7 PIC X.  
004000 03 SORT-CNTL.  
004100 05 SPECIES-D7 PIC X(7).  
004200 05 PLOT-TOT-CHRZ-D7 PIC 99.  
004300 05 FILLER PIC XXX.  
004400 03 FILLER PIC X(19).  
004500 03 CN-D7 PIC 999.  
004600 03 ACD-D7 PIC 999.  
004700 03 CNN-D7 PIC 999.  
004800 03 FILLER PIC X(10).  
004900 03 PN4U PIC 9.  
005000 03 FILLER PIC X(6).  
005100 03 PN5U PIC 9.  
005200 03 FILLER PIC X(34).  
005300 03 PN10U PIC 9.  
005400 03 FILLER PIC X(8).  
005500 FD FILE-D8  
005600 CODE-SET IS GBCD  
005700 LABEL RECORDS ARE STANDARD  
005800 DATA RECORD IS FDR-D8.  
005900 01 FDR-D8.  
006000 03 FILLER PIC X(153).  
006100 03 PLOTS-CHRZ-D8 PIC 99.  
006200 03 FILLER PIC X.  
006300 FD FILE-P1  
006400 CODE-SET IS GBCD  
006500 LABEL RECORDS ARE STANDARD  
006600 DATA RECORD IS FDR-P1.  
006700 01 FDR-P1 PIC X(132).  
006800 WORKING-STORAGE SECTION.  
006900 77 SPEC-HLD PIC X(7) VALUE SPACE.  
007000 77 SWAT-CNTL-BARREN PIC X(20) VALUE SPACE.  
007100 77 SPEC-TEST-CNT PIC 999 VALUE 000.  
007200 77 PLOTS-CHRZ-HLD PIC 99 VALUE ZERO.  
007300 77 PLOTS-CHRZ-HLD-2 PIC 99 VALUE ZERO.  
007400 77 END-SW PIC 9 VALUE ZERO.  
007500 77 PRT-SW PIC 9 VALUE 1.  
007600 77 AVAIL-SW PIC 9 VALUE ZERO.  
007700 77 CHRZ-SW PIC 9 VALUE 2.

007800	77	AUDIT	PIC 9	VALUE ZERO.
007900	77	HC-HLD	PIC 9	VALUE ZERO.
008000	77	FC-KEY	PIC 9	VALUE ZERO.
008100	77	CON96	PIC V99	VALUE .96.
008200	77	RK-SW	PIC 9	VALUE ZERO.
008300	77	AGE	PIC 9	VALUE ZERO.
008400	77	SUB1	PIC 99	VALUE ZERO.
008500	77	SUB2	PIC 99	VALUE ZERO.
008600	77	SUB3	PIC 99	VALUE ZERO.
008700	77	SUB4	PIC 99	VALUE ZERO.
008800	77	SUB5	PIC 99	VALUE ZERO.
008900	77	SUB6	PIC 99	VALUE ZERO.
009000	77	PLANT-TOT-HLD	PIC 999	VALUE ZERO.
009100	77	PLANT-TOTAL	PIC 9(5)	VALUE ZERO.
009200	77	TYPE-SPEC-HLD	PIC X	VALUE SPACE.
009300	77	SDRP-HLD	PIC X(8)	VALUE SPACE.
009400	77	SWAT-SW	PIC 9	VALUE ZERO.
009500	77	SPEC-SW	PIC 9	VALUE ZERO.
009600	77	PG-CNT	PIC 9(5)	VALUE ZERO.
009700	77	REC-CNT	PIC 9(5)	VALUE ZERO.
009800	77	LINE-CNT	PIC 99	VALUE 99.
009900	01	HLD-DT.		
010000		03 YR-DT	PIC XX.	
010100		03 MO-DT	PIC 99.	
010200		03 DY-DT	PIC XX.	
010300		03 FUNC-HLD.		
010400		05 ST-NM-HLD	PIC X(10).	
010500		05 FILLER	PIC X(14).	
010600	03	EXPL-HLD.		
010700		05 DIST-NM-HLD	PIC X(10).	
010800		05 FILLER	PIC X.	
010900		05 RA-NM-HLD	PIC X(12).	
011000		05 FILLER	PIC X.	
011100		05 PU-NM-HLD	PIC X(15).	
011200		05 FILLER	PIC X.	
011300	01	FC-AC-CNTL.		
011400		03 FAC-IN.		
011500		05 SC-FAC	PIC X(20).	
011600		05 RK-FAC	PIC 9.	
011700		05 SPEC-FAC	PIC X(7).	
011800		05 FAPN-FAC	PIC XXX.	
011900		03 FAC-HLD	PIC X(31).	
012000	01	CONTROL-HLD.		
012100		03 SWAT-CNTL-HLD.		
012200		05 SDRP-SCH.		
012300		07 SDR-SCH.		
012400		09 SD-SCH.		
012500		11 ADST-CD-SCH	PIC XX.	
012600		11 DIST-CD-SCH	PIC XX.	
012700		09 RA-CD-SCH	PIC XX.	
012800		07 PLU-CD-SCH	PIC XX.	
012900				
013000		05 ALLOT-NUM-SCH	PIC 9999.	
013100		05 PASTURE-NUM-SCH	PIC 99.	
013200		05 SWAT-SCH.		
013300		07 SWA-SCH	PIC XXXX.	
013400		07 TRN-NUM-SCH	PIC 99.	

013500 03 REC-KEY-SCH PIC 9.  
013600 03 RCD-SCH.  
013700 05 REC-TYP-SCH PIC X(2).  
013800 05 FMT-NUM-SCH PIC 9.  
013900 05 FMT-CD-SCH PIC X.  
014000 03 KEYS-SCH.  
014100 05 SPECIES-CD-SCH PIC X(7).  
014200 05 SK-0.  
014300 07 PN-S-0 PIC 99.  
014400 07 FILLER PIC X.  
014500 05 SK-6 REDEFINES SK-0.  
014600 07 FC-S-6 PIC 9.  
014700 07 PN-S-6 PIC 99.  
014800 05 SK-7 REDEFINES SK-0.  
014900 07 AC-S-7 PIC X.  
015000 07 PN-S-7 PIC 99.  
015100 05 FILLER PIC XX.  
015200 03 KEYS-IN.  
015300 05 SPECIES-IN PIC X(7).  
015400 05 SK-0-IN.  
015500 07 PN-S-0-IN PIC 99.  
015600 07 FILLER PIC X.  
015700 05 SK-6-IN REDEFINES SK-0-IN.  
015800 07 FC-S-6-IN PIC 9.  
015900 07 PN-S-6-IN PIC 99.  
016000 05 SK-7-IN REDEFINES SK-0-IN.  
016100 07 AC-S-7-IN PIC X.  
016200 07 PN-S-7-IN PIC 99.  
016300 05 FILLER PIC XX.  
016400 01 TABL-AREA.  
016500 03 MON-V PIC X(36) VALUE "JANFEBMARAPRMAYJUNJULAUGSEPOCT  
016600- "NOVDEC".  
016700 03 MON-T REDEFINES MON-V PIC XXX OCCURS 12 TIMES.  
016800 01 HEAD-1.  
016900 03 FILLER PIC X(5) VALUE "PCN: ".  
017000 03 PCN-HD-1 PIC X(6) VALUE "ES050P".  
017100 03 FILLER PIC X(14) VALUE " REPORT DATE: ".  
017200 03 DAY-HD-1 PIC 99.  
017300 03 FILLER PIC X VALUE SPACE.  
017400 03 MTH-HD-1 PIC XXX.  
017500 03 FILLER PIC X VALUE SPACE.  
017600 03 YR-HD-1 PIC 99.  
017700 03 FILLER PIC X(12) VALUE SPACE.  
017800 03 FILLER PIC X(28) VALUE "UNITED STATES DEPARTMENT OF ".  
017900 03 FILLER PIC X(36) VALUE "THE INTERIOR".  
018000 03 FILLER PIC X(9) VALUE "PAGE NO: ".  
018100 03 PG-HD-1 PIC ZZ,ZZZ.  
018200 03 FILLER PIC X(7) VALUE SPACE.  
018300 01 P-SPACE PIC X(132) VALUE SPACE.  
018400 01 HEAD-2.  
018500 03 FILLER PIC X(53) VALUE SPACE.  
018600 03 FILLER PIC X(25) VALUE "BUREAU OF LAND MANAGEMENT".  
018700 03 FILLER PIC X(54) VALUE SPACE.  
018800 01 HEAD-3.  
018900 03 FILLER PIC X(07) VALUE "STATE: ".  
019000 03 ST-HD-3 PIC XX.  
019100 03 FILLER PIC X VALUE SPACE.

```

019200      03  SN-HD-3 PIC X(12).
019300      03  FILLER PIC X(08) VALUE " DIST: ".
019400      03  DS-HD-3 PIC XX.
019500      03  FILLER PIC X VALUE SPACE.
019600      03  DN-HD-3 PIC X(15).
019700      03  FILLER PIC X(08) VALUE " RA: ".
019800      03  RA-HD-3 PIC XX.
019900      03  FILLER PIC X VALUE SPACE.
020000      03  RAN-HD-3 PIC X(15).
020100      03  FILLER PIC X(6) VALUE " PU: ".
020200      03  PS-HD-3 PIC 99.
020300      03  FILLER PIC X VALUE SPACE.
020400      03  PN-HD-3 PIC X(17).
020500      03  FILLER PIC X(13) VALUE " ALLOTMENT: ".
020600      03  AN-HD-3 PIC 9999 VALUE ZERO.
020700      03  FILLER PIC X VALUE SPACE.
020800      03  APS-HD-3 PIC 99 VALUE ZERO.
020900      03  FILLER PIC X(14) VALUE SPACE.
021000 01  HEAD-4.
021100      03  FILLER PIC X(54) VALUE SPACE.
021200      03  FILLER PIC X(23) VALUE "VEGETATION SWAT SUMMARY".
021300      03  FILLER PIC X(55) VALUE SPACE.
021400 01  HEAD-5.
021500      03  FILLER PIC X(30) VALUE "SWA TRN PLANT TYP ".
021600      03  FILLER PIC X(30) VALUE "P L A N T S W / I A C R E ".
021700      03  FILLER PIC X(30) VALUE " GRAMS & PROD WG".
021800      03  FILLER PIC X(30) VALUE "T TOTAL AVERAGE WEIG".
021900      03  FILLER PIC X(12) VALUE "HTED-AVERAGE".
022000 01  HEAD-6.
022100      03  FILLER PIC X(30) VALUE " BY F O".
022200      03  FILLER PIC X(30) VALUE " R M C L A S S & A G E C L".
022300      03  FILLER PIC X(30) VALUE " A S S BY HT-CLS-CD ".
022400      03  FILLER PIC X(30) VALUE " PLANTS HGT CRWN AVAI".
022500      03  FILLER PIC X(12) VALUE "L UTIL PHENO".
022600 01  HEAD-7.
022700      03  FILLER PIC X(30) VALUE " 1 S ".
022800      03  FILLER PIC X(30) VALUE "2 P 3 Y 4 M 5 O 6 ".
022900      03  FILLER PIC X(30) VALUE "D R (1) (2) (3)".
023000      03  FILLER PIC X(42) VALUE " (4)".
023100 01  DET-1.
023200      03  SWA-P PIC X(4).
023300      03  FILLER PIC X.
023400      03  TRN-P PIC 99.
023500      03  FILLER PIC X.
023600      03  SPECIES-CD-P PIC X(7).
023700      03  FILLER PIC X.
023800      03  SPECIES-TYPE-P PIC X.
023900      03  PFC-P OCCURS 6 TIMES.
024000      05  FILLER PIC XX.
024100      05  PLANTS-FORM-CLS-P PIC Z(5).
024200      03  FILLER PIC X(8) VALUE SPACE.
024300      03  GHC-P OCCURS 4 TIMES.
024400      05  FILLER PIC XX.
024500      05  GRAMS-HGT-CLS-P PIC Z(5).
024600      03  FILLER PIC XXX VALUE SPACE.
024700      03  TOT-PLANTS-P PIC Z(5).
024800      03  FILLER PIC XX.

```

024900 03 AVG-HGT-P PIC ZZZ.9.  
025000 03 FILLER PIC X.  
025100 03 AVG-CROWN-P PIC ZZ.9.  
025200 03 FILLER PIC XX.  
025300 03 WTD-AVG-AVAIL-P PIC 999.  
025400 03 FILLER PIC XXX.  
025500 03 WTD-AVG-UTIL-P PIC 999.  
025600 03 FILLER PIC XXX.  
025700 03 WTD-AVG-PHNO-P PIC 9.  
025800 03 FILLER PIC XX.  
025900 01 DET-2.  
026000 03 FILLER PIC X(19).  
026100 03 PAC-P OCCURS 7 TIMES.  
026200 05 FILLER PIC XX.  
026300 05 PLANTS-AGE-CLS-P PIC Z(5).  
026400 03 FILLER PIC X VALUE SPACE.  
026500 03 PHC-P OCCURS 4 TIMES.  
026600 05 FILLER PIC XX.  
026700 05 PROD-HGT-CLS-P PIC Z(5).  
026800 03 FILLER PIC X(35) VALUE SPACE.  
026900 01 DISP-RK8.  
027000 03 DRK8-1 PIC X(21).  
027100 03 DRK8-2 PIC X(65).  
027200 03 DRK8-3 PIC X(64).  
027300 COPY DBSTATUS OF TPCOBOLIB.  
027400 COPY REC-KEY0 IN LIBRARY1.  
027500 COPY REC-KEY5 IN LIBRARY1.  
027600 COPY REC-KEY6 IN LIBRARY1.  
027700 COPY REC-KEY7 IN LIBRARY1.  
027800 COPY REC-KEY8 IN LIBRARY1.  
027900 01 PLANT-TOT-TABLE.  
028000 03 TOT-PLANTS PIC 999 OCCURS 99 TIMES.  
028100 01 PLANT-CAL-TABLE.  
028200 03 PC-TAB OCCURS 10 TIMES.  
028300 05 TK-TAB PIC 99.  
028400 05 CHAR-TAB PIC 999.  
028500 01 PLANT-CAL-HLD.  
028600 03 PC-SUB PIC 99.  
028700 03 PC-PCT PIC 999V99.  
028800 03 PC-CHAR PIC 999.  
028900 03 PC-NOT-CHAR PIC 999.  
029000 03 PC-TOT-PLANTS PIC 999.  
029100 03 PC-TABKEY PIC 99.  
029200 01 PROD-WGT-HLD.  
029300 03 PW-PLOT-TOT PIC 99.  
029400 03 PW-GRAMS PIC 9(7).  
029500 03 PW-GRAMS-HLD PIC 9(7).  
029600 03 PW-LBS-ACRE PIC 9(8).  
029700 03 PW-SIZE PIC 999V99.  
029800 03 PW-WUAF PIC 999.  
029900 03 PW-WAUF PIC 999V99.  
030000 03 PW-GRP-PROD.  
030100 05 PW-PROD PIC 9(5) OCCURS 4 TIMES.  
030200 01 UTIL-PHENO-TABLE.  
030300 03 UP-TAB OCCURS 40 TIMES.  
030400 05 UTIL-TB PIC 9.  
030500 05 PHNO-TB PIC 9.



030600 05 MID-PT-TB PIC 999.  
030700 05 GRAM-UP-TB PIC 9(5).  
030800 05 AVAIL-TB PIC 9V99.  
030900 05 PHNO-TAB PIC 9.  
031000 01 UTIL-PHENO-HLD.  
031100 03 UTIL-GRAMS-TOT PIC 9(8).  
031200 03 UTIL-MID-POINT-TOT PIC 9(4)V999.  
031300 03 UTIL-MP-ACUM PIC 9(4)V999.  
031400 03 PHNO-GRAMS-TOT PIC 9(8)V99.  
031500 03 PHNO-ACUM PIC 9(8).  
031600 03 PHNO-AVG-TOT PIC 9(8).  
031700 03 PHNO-AVG-PLOT-TOT PIC 9(8).  
031800 03 PHNO-HLD PIC 9.  
031900 03 UTIL-AVG PIC 9V99.  
032000 03 UTIL-AVG-RD REDEFINES UTIL-AVG PIC 999.  
032100 03 UTIL-AVG-DEC-RD REDEFINES UTIL-AVG.  
032200 05 UTIL-AVG-1 PIC 9.  
032300 05 UTIL-AVG-2 PIC 99.  
032400 03 MID-PT-HLD PIC 999.  
032500 03 MID-PT-HLD-RD REDEFINES MID-PT-HLD PIC 9V99.  
032600 03 UTIL-HLD PIC 9.  
032700 03 PHNO-AVG PIC 9.  
032800 03 PHNO-PLOT-AVG PIC 9.  
032900 03 PHNO-PLOT-TOT PIC 99.  
033000 01 HT-CLS-TABLE.  
033100 03 HT-CLS-TAB.  
033200 05 GRAM-HC-TB-RD.  
033300 07 GRAM-HC-TB PIC 9(5) OCCURS 4.  
033400 05 PLOT-TOT-HC-TB PIC 99 OCCURS 4 TIMES.  
033500 01 FORM-CLS-TABLE.  
033600 03 FORM-CLS-TAB.  
033700 05 PLOT-TOT-FC-TB PIC 999 OCCURS 6 TIMES.  
033800 05 PLANT-TOT-FC-TB PIC 999 OCCURS 6 TIMES.  
033900 05 PIA-FC-RD.  
034000 07 PIA-FC PIC 9(5) OCCURS 6 TIMES.  
034100 01 AGE-CLS-TABLE.  
034200 03 AGE-CLS-TAB.  
034300 05 PLOT-TOT-AC-TB PIC 999 OCCURS 8 TIMES.  
034400 05 PLANT-TOT-AC-TB PIC 999 OCCURS 8 TIMES.  
034500 05 PIA-AC-RD.  
034600 07 PIA-AC PIC 9(5) OCCURS 8 TIMES.  
034700 05 PIA-AC-RD2 REDEFINES PIA-AC-RD.  
034800 07 PIA-AC2 PIC X(35).  
034900 07 PIA-AC3 PIC 9(5).  
035000 01 FORM-AGE-HOLD.  
035100 03 PLOT-NUM-FAH PIC 99.  
035200 03 ACRE-FRAC-FAH PIC 999.  
035300 03 TYPE-SP-FAH PIC X.  
035400 03 ACRE-SF-TOT PIC 9(6)V9.  
035500 03 PLOT-SAMP-SZ-FAH PIC 999V99.  
035600 03 PLANTS-ACUM PIC 9(8).  
035700 01 AVG-HGT-CROWN-AVL.  
035800 03 PLANT-TOT-HGT PIC 999.  
035900 03 PLANT-TOT-CROWN PIC 999.  
036000 03 PLANT-TOT-AVAIL PIC 999.  
036100 03 AVG-HGT-SUM PIC 9(6)V9.  
036200 03 AVG-HGT-TOT PIC 9(6)V9.

036300 03 AVG-HGT PIC 999V9.  
036400 03 AVG-CROWN-SUM PIC 9(5)V9.  
036500 03 AVG-CROWN-TOT PIC 9(5)V9.  
036600 03 AVG-CROWN PIC 99V9.  
036700 03 AVG-AVAIL-SUM PIC 9(6)V99.  
036800 03 GRAM-UP-TB-HLD PIC 9(5).  
036900 03 AVG-AVAIL-PCT PIC 9V99.  
037000 03 AVG-AVAIL-TOT PIC 9(6)V99.  
037100 03 AVG-AVAIL PIC 999V99.  
037200 03 AVG-AVAIL-RD REDEFINES AVG-AVAIL.  
037300 05 AVG-AV-00 PIC 99.  
037400 05 AVG-AV-PCT PIC 999.  
037500 01 MID-POINT-TABLE.  
037600 03 MPT PIC 9(10) VALUE 1030507090.  
037700 03 MID-PT REDEFINES MPT PIC 99 OCCURS 5.  
037800 01 DIS-HD1.  
037900 03 FILLER PIC X(30) VALUE "AUDIT TRAIL FOR SWAT-SPECIES: ".  
038000 03 DIS-SS.  
038100 05 DIS-ST PIC XX.  
038200 05 FILLER PIC X.  
038300 05 DIS-SWAT PIC X(6).  
038400 05 FILLER PIC X.  
038500 05 DIS-SP1 PIC X(7).  
038600 05 DIS-SP2 PIC X(7).  
038700 05 DIS-SP3 PIC X(7).  
038800 01 DIS-HD2.  
038900 03 FILLER PIC X(30) VALUE "TOT-PLANTS PLOT-SIZE PLOT-TOT".  
039000 03 FILLER PIC X(30) VALUE "-BY-HTC WGT BY HTC -----".  
039100 03 FILLER PIC X(30) VALUE "--- PLOT-TOT BY AGE -----".  
039200 03 FILLER PIC X(30) VALUE "----- PLOT-TOT BY FORM -----".  
039300 01 DIS-HD3.  
039400 03 FILLER PIC X(30) VALUE "TOT-HGT AVG-HGT-TOT TOT-CRN A".  
039500 03 FILLER PIC X(30) VALUE "VG-CRN-TOT TOT-AVAIL AVG-AVAI".  
039600 03 FILLER PIC X(30) VALUE "L-TOT UTIL-AVG WGTD-AVG-UTIL-F".  
039700 03 FILLER PIC X(30) VALUE "AC ACRE-FRAC-FAH ACRE-SF-TOT ".  
039800 01 DIS-DT1.  
039900 03 FILLER PIC XXX.  
040000 03 TP-DD PIC 999.  
040100 03 FILLER PIC X(5).  
040200 03 PS1-DD PIC 9.  
040300 03 FILLER PIC X.  
040400 03 PS2-DD PIC 999.99.  
040500 03 FILLER PIC X(3).  
040600 03 PT-DD-TB OCCURS 4 TIMES.  
040700 05 PT-DD PIC 999.  
040800 05 FILLER PIC X.  
040900 03 FILLER PIC X.  
041000 03 WGT-DD-TB OCCURS 4 TIMES.  
041100 05 WGT-DD PIC 9(5).  
041200 05 FILLER PIC X.  
041300 03 FILLER PIC X.  
041400 03 PT-AC-DD-TB OCCURS 7 TIMES.  
041500 05 PT-AC-DD PIC 999.  
041600 05 FILLER PIC X.  
041700 03 FILLER PIC X.  
041800 03 PT-FC-DD-TB OCCURS 6 TIMES.  
041900 05 PT-FC-DD PIC 999.

```

042000          05 FILLER      PIC X.
042100 01  DIS-DT2.
042200          03 FILLER      PIC XX.
042300          03 TH-DD       PIC 999.
042400          03 FILLER      PIC XXXX.
042500          03 AHT-DD      PIC 9(6).9.
042600          03 FILLER      PIC XXXXXX.
042700          03 TC-DD       PIC 999.
042800          03 FILLER      PIC X(5).
042900          03 ACT-DD      PIC 9(5).9.
043000          03 FILLER      PIC X(7).
043100          03 TA-DD       PIC 999.
043200          03 FILLER      PIC X(8).
043300          03 AAT-DD      PIC 9(6).
043400          03 FILLER      PIC X(6).
043500          03 UA-DD       PIC 999.
043600          03 FILLER      PIC X(11).
043700          03 WAUF-DD     PIC 999.
043800          03 FILLER      PIC X(12).
043900          03 AFF-DD      PIC 999.
044000          03 FILLER      PIC X(7).
044100          03 AST-DD      PIC 9(6).9.
044200 01  SEL-ST-AUDIT-SWAT-SPECIES.
044300          03 SEL-ST      PIC XX   VALUE "NM".
044400          03 FILLER      PIC X    VALUE SPACE.
044500          03 AUDIT-SWAT  PIC X(6)  VALUE "Z00101".
044600          03 FILLER      PIC X    VALUE SPACE.
044700          03 AUDIT-SPEC1  PIC X(7)  VALUE "ERPU8  ".
044800          03 AUDIT-SPEC2  PIC X(7)  VALUE "GUSA2  ".
044900          03 AUDIT-SPEC3  PIC X(7)  VALUE "HIMU2  ".
045000 01  DIS-REC.
045100          03 PAR-DR      PIC 999.
045200          03 FILLER      PIC XX.
045300          03 FAN-DR      PIC X(25).
045400          03 PR1-DR.
045500          05 FILLER      PIC X.
045600          05 SB1-DR      PIC 99.
045700          05 FILLER      PIC XX.
045800          03 FA-DR       PIC 9(8).
045900          03 FA1-DR REDEFINES FA-DR  PIC 9(6).9.
046000          03 FA2-DR REDEFINES FA-DR  PIC 9(5).99.
046100          03 FA3-DR REDEFINES FA-DR  PIC 9(4).999.
046200          03 FILLER      PIC XX.
046300          03 SGN-DR      PIC X.
046400          03 FILLER      PIC XX.
046500          03 FB-DR       PIC 9(8).
046600          03 FB1-DR REDEFINES FB-DR  PIC 9(6).9.
046700          03 FB2-DR REDEFINES FB-DR  PIC 9(5).99.
046800          03 FB3-DR REDEFINES FB-DR  PIC 9(4).999.
046900          03 FBS-DR REDEFINES FB-DR  PIC X(8).
047000          03 FILLER      PIC XX.
047100          03 FBN-DR      PIC X(25).
047200          03 PR2-DR.
047300          05 FILLER      PIC X.
047400          05 SB2-DR      PIC 99.
047500          05 FILLER      PIC XX.
047600          03 FILLER-DR  PIC XXX  VALUE " = ".

```

```

047700      03  FC-DR      PIC 9(8).
047800      03  FC1-DR REDEFINES FC-DR  PIC 9(6).9.
047900      03  FC2-DR REDEFINES FC-DR  PIC 9(5).99.
048000      03  FC3-DR REDEFINES FC-DR  PIC 9(4).999.
048100      03  FILLER  PIC XX.
048200      03  FCN-DR  PIC X(25).
048300      03  PR3-DR.
048400          05  FILLER  PIC X.
048500          05  SB3-DR  PIC 99.
048600          05  FILLER  PIC XX.
048700  PROCEDURE DIVISION.
048800  010-HOUSEKEEPING.
048900      MOVE SEL-ST-AUDIT-SWAT-SPECIES TO DIS-SS.
049000      DISPLAY DIS-HD1.
049100          ACCEPT HLD-DT FROM DATE.
049200      MOVE YR-DT TO YR-HD-1.
049300      MOVE DY-DT TO DAY-HD-1.
049400      MOVE MON-T (MO-DT) TO MTH-HD-1.
049500      OPEN INPUT FILE-D7,
049600          OUTPUT FILE-D8, FILE-P1.
049700      READY  DIC-DE.
049800      MOVE SPACE TO DIS-REC.
049900      INITIALIZE PLANT-TOT-TABLE, PLANT-CAL-TABLE,
050000          PLANT-CAL-HLD, UTIL-PHENO-TABLE,
050100          UTIL-PHENO-HLD, HT-CLS-TABLE, FORM-CLS-TABLE,
050200          AGE-CLS-TABLE, FORM-AGE-HOLD, AVG-HGT-CROWN-AVL
050300          FC-AC-CNTL PROD-WGT-HLD DIS-DT1 DIS-DT2 DIS-REC.
050400      PERFORM 020-RD-IN THRU 030-EXIT.
050500      GO TO 040-LOAD-REC.
050600  020-RD-IN.
050700      READ FILE-D7 AT END
050800          MOVE 1 TO END-SW GO TO 058-CHK-CAL-SW.
050900      IF SPECIES-D7 = "ZZBAREN"
051000          MOVE "BARREN " TO SPECIES-D7.
051100      IF (SPECIES-D7 = "BARREN ") AND
051200          (SWAT-CNTL-D7 = SWAT-CNTL-HLD)
051300          GO TO 020-RD-IN.
051400      IF (SPECIES-D7 = "BARREN ") AND
051500          (SWAT-CNTL-D7 = SWAT-CNTL-BARREN)
051600          GO TO 020-RD-IN.
051700      IF SPECIES-D7 = "BARREN "
051800          MOVE SWAT-CNTL-D7 TO SWAT-CNTL-BARREN
051900          INITIALIZE REC-KEY8
052000          MOVE 8 TO REC-KEY-RK8
052100          MOVE SWAT-CNTL-BARREN TO SWAT-RK8
052200          MOVE ZERO TO PLANT-TYP-RK8
052300          MOVE "BARREN " TO SPECIES-KEY-RK8
052400          MOVE REC-KEY8 TO FDR-D8
052500          MOVE ZERO TO PLOTS-CHRZ-D8
052600          WRITE FDR-D8
052700          ADD 1 TO REC-CNT
052800          GO TO 020-RD-IN.
052900*      IF SPEC-TEST-CNT > 002
053000*          MOVE 1 TO END-SW GO TO 058-CHK-CAL-SW.
053100*      IF ST-D7 NOT = SEL-ST GO TO 020-RD-IN.
053200      IF (REC-KEY-D7 = 0) AND (SPECIES-D7 = SPACE)
053300          AND (SD-D7 = "NM03")

```

```

053400         MOVE 03 TO PLOT-TOT-CHRZ-D7.
053500         IF (REC-KEY-D7 = 0) AND (SPECIES-D7 = SPACE)
053600             AND (CHRZ-SW = 2)
053700             MOVE ZERO TO CHRZ-SW
053800             MOVE PLOT-TOT-CHRZ-D7 TO PLOTS-CHRZ-HLD
053900             GO TO 020-RD-IN.
054000         IF (REC-KEY-D7 = 0) AND (SPECIES-D7 = SPACE)
054100             MOVE 1 TO CHRZ-SW
054200             MOVE PLOT-TOT-CHRZ-D7 TO PLOTS-CHRZ-HLD-2
054300             GO TO 020-RD-IN.
054400         MOVE SORT-CNTL TO KEYS-IN.
054500         INITIALIZE FAC-HLD.
054600 020-EXIT-RD.
054700         GO TO 030-MV-IN.
054800 025-CK-SUM.
054900         IF RK-SW = 1
055000             MOVE ZERO TO RK-SW
055100             PERFORM 030-MV-IN
055200             GO TO 055-PASS.
055300         GO TO 460-BUILD-SUMMARY.
055400 030-MV-IN.
055500         MOVE SWAT-CNTL-D7 TO SWAT-CNTL-HLD SC-FAC.
055600         MOVE REC-KEY-D7 TO REC-KEY-SCH RK-FAC.
055700         MOVE REC-TYP-D7 TO REC-TYP-SCH.
055800         MOVE FMT-NUM-D7 TO FMT-NUM-SCH.
055900         MOVE FMT-CD-D7 TO FMT-CD-SCH.
056000         MOVE SPECIES-D7 TO SPECIES-CD-SCH SPEC-FAC.
056100         MOVE KEYS-IN TO KEYS-SCH.
056200         MOVE ALLOT-NUM-SCH TO AN-HD-3.
056300         MOVE PASTURE-NUM-SCH TO APS-HD-3.
056400         MOVE SK-0 TO FAPN-FAC.
056500 030-EXIT.
056600         EXIT.
056700 040-LOAD-REC.
056800         IF REC-KEY-D7 = 0           OR 6 OR 7
056900             MOVE FDR-D7 TO REC-KEY0 REC-KEY6 REC-KEY7.
057000         IF REC-KEY-D7 = 5
057100             MOVE FDR-D7 TO REC-KEY5.
057200 050-CNTL-CHK.
057300         IF SWAT-CNTL-D7 NOT EQUAL SWAT-CNTL-HLD
057400*          ADD 1 TO SPEC-TEST-CNT
057500             MOVE 1 TO SWAT-SW
057600             GO TO 058-CHK-CAL-SW.
057700         IF SPECIES-D7 NOT EQUAL SPECIES-CD-SCH
057800*          ADD 1 TO SPEC-TEST-CNT
057900             MOVE 1 TO SPEC-SW
058000             GO TO 058-CHK-CAL-SW.
058100         IF REC-KEY-D7 NOT EQUAL REC-KEY-SCH
058200             MOVE 1 TO RK-SW
058300             GO TO 060-CK-LST.
058400         IF (REC-KEY-D7 = 0) AND
058500             (PN-S-0-IN NOT EQUAL PN-S-0)
058600             MOVE 1 TO RK-SW
058700             GO TO 060-CK-LST.
058800 055-PASS.
058900         IF (SWAT-SCH = AUDIT-SWAT) AND (SEL-ST = ADST-CD-SCH)
059000             AND (SPECIES-CD-SCH = AUDIT-SPEC1 OR AUDIT-SPEC2

```

```

059100             OR AUDIT-SPEC3)
059200             DISPLAY FDR-D7
059300             MOVE 1 TO AUDIT ELSE MOVE ZERO TO AUDIT.
059400             IF REC-KEY-D7 = 0
059500                 GO TO 100-REC-0-PROC.
059600             IF REC-KEY-D7 = 5
059700                 GO TO 200-REC-5-PROC.
059800             IF REC-KEY-D7 = 6
059900                 GO TO 300-REC-6-PROC.
060000             IF REC-KEY-D7 = 7
060100                 GO TO 400-REC-7-PROC.
060200             DISPLAY "BAD REC-KEY".
060300             STOP RUN.
060400 058-CHK-CAL-SW.
060500             IF (REC-KEY-SCH = 0)
060600                 OR (SPEC-SW = 1)
060700                 OR (SWAT-SW = 1)
060800                 PERFORM 110-CAL-0-PROC THRU 110-EXIT
060900                 PERFORM 210-CAL-5-PROC THRU 210-EXIT
061000                 PERFORM 310-CAL-6-PROC THRU 310-EXIT.
061100             IF REC-KEY-SCH = 5
061200                 PERFORM 210-CAL-5-PROC THRU 210-EXIT
061300                 PERFORM 310-CAL-6-PROC THRU 310-EXIT.
061400             IF REC-KEY-SCH = 6
061500                 PERFORM 310-CAL-6-PROC THRU 310-EXIT.
061600             GO TO 410-CAL-7-PROC.
061700 060-CK-LST.
061800             IF REC-KEY-SCH = 0
061900                 PERFORM 110-CAL-0-PROC THRU 110-EXIT
062000                 GO TO 025-CK-SUM.
062100             IF REC-KEY-SCH = 5
062200                 PERFORM 210-CAL-5-PROC THRU 210-EXIT
062300                 GO TO 025-CK-SUM.
062400             IF REC-KEY-SCH = 6
062500                 PERFORM 310-CAL-6-PROC THRU 310-EXIT
062600                 GO TO 025-CK-SUM.
062700             IF REC-KEY-SCH = 7
062800                 DISPLAY "BAD SEQUENCE "
062900                 STOP RUN.
063000 100-REC-0-PROC.
063100             ADD 1 TO SUB1.
063200             MOVE CHARZD-NUM-RK0 TO CHAR-TAB (SUB1).
063300             MOVE PLANT-TYP-RK0 TO TYPE-SPEC-HLD.
063400             MOVE PLANT-CD-RK0 TO SPEC-HLD.
063500             MOVE TAB-KEY-0 TO TK-TAB (SUB1).
063600             ADD CHARZD-NUM-RK0 TO PC-CHAR.
063700             ADD CHARZD-NOT-NUM-RK0 TO PC-NOT-CHAR.
063800             PERFORM 020-RD-IN.
063900             GO TO 040-LOAD-REC.
064000 110-CAL-0-PROC.
064100             MOVE ZERO TO SUB1.
064200             ADD PC-CHAR PC-NOT-CHAR GIVING PC-TOT-PLANTS.
064300             IF AUDIT = 1
064400                 MOVE 110 TO PAR-DR
064500                 MOVE SPACE TO PR1-DR PR2-DR PR3-DR
064600                 MOVE "PC-CHAR" TO FAN-DR
064700                 MOVE PC-CHAR TO FA-DR

```

```

064800      MOVE "+" TO SGN-DR
064900      MOVE " = " TO FILLER-DR
065000      MOVE PC-NOT-CHAR TO FB-DR
065100      MOVE "PC-NOT-CHAR" TO FBN-DR
065200      MOVE PC-TOT-PLANTS TO FC-DR
065300      MOVE "PC-TOT-PLANTS" TO FCN-DR
065400      DISPLAY P-SPACE
065500      DISPLAY DIS-REC.
065600 120-LP-TB.
065700      ADD 1 TO SUB1.
065800      IF TK-TAB (SUB1) = ZERO
065900          MOVE ZERO TO SUB1
066000          INITIALIZE PLANT-CAL-TABLE PLANT-CAL-HLD
066100          GO TO 110-EXIT.
066200      MOVE TK-TAB (SUB1) TO PC-TABKEY.
066300      DIVIDE PC-CHAR INTO CHAR-TAB (SUB1)
066400          GIVING PC-PCT.
066500      IF AUDIT = 1
066600          MOVE 120 TO PAR-DR
066700          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
066800          MOVE "PC-CHAR" TO FAN-DR
066900          MOVE PC-CHAR TO FA-DR
067000          MOVE "/" TO SGN-DR
067100          MOVE CHAR-TAB (SUB1) TO FB-DR
067200          MOVE "CHAR-TAB (SUB1)" TO FBN-DR
067300          MOVE PC-PCT TO FC2-DR
067400          MOVE "PC-PCT" TO FCN-DR
067500          MOVE "( ) " TO PR2-DR
067600          MOVE SUB1 TO SB2-DR
067700          DISPLAY P-SPACE
067800          DISPLAY DIS-REC.
067900      MULTIPLY PC-PCT BY PC-TOT-PLANTS
068000          GIVING TOT-PLANTS (PC-TABKEY) ROUNDED.
068100      IF AUDIT = 1
068200          MOVE 121 TO PAR-DR
068300          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
068400          MOVE "PC-PCT" TO FAN-DR
068500          MOVE PC-PCT TO FA2-DR
068600          MOVE "X" TO SGN-DR
068700          MOVE PC-TOT-PLANTS TO FB-DR
068800          MOVE "PC-TOT-PLANTS" TO FBN-DR
068900          MOVE TOT-PLANTS (PC-TABKEY) TO FC-DR
069000          MOVE "TOT-PLANTS (PC-TABKEY)" TO FCN-DR
069100          MOVE "( ) " TO PR3-DR
069200          MOVE PC-TABKEY TO SB3-DR
069300          DISPLAY P-SPACE
069400          DISPLAY DIS-REC.
069500      ADD TOT-PLANTS (PC-TABKEY) TO PLANT-TOTAL.
069600      IF AUDIT = 1
069700          MOVE 122 TO PAR-DR
069800          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
069900          MOVE "TOT-PLANTS (PC-TABKEY)" TO FAN-DR
070000          MOVE TOT-PLANTS (PC-TABKEY) TO FA-DR
070100          MOVE "+" TO SGN-DR
070200          MOVE " = " TO FILLER-DR
070300          MOVE SPACE TO FBS-DR
070400          MOVE SPACE TO FBN-DR

```

```

070500      MOVE PLANT-TOTAL TO FC-DR
070600      MOVE "PLANT-TOTAL" TO FCN-DR
070700      MOVE "( ) " TO PR1-DR
070800      MOVE PC-TABKEY TO SB1-DR
070900      DISPLAY P-SPACE
071000      DISPLAY DIS-REC.
071100      GO TO 120-LP-TB.
071200 200-REC-5-PROC.
071300      MOVE PLANT-TYP-RK5 TO TYPE-SPEC-HLD.
071400      MOVE PLANT-CD-RK5 TO SPEC-HLD.
071500      MOVE ZERO TO SUB5.
071600      MOVE PLOT-SIZ-EST-RK5 TO PW-SIZE PLOT-SAMP-SZ-FAH.
071700      MOVE PLOT-TOT-NUM-RK5 TO PW-PLOT-TOT.
071800      MOVE HGT-CLS-CD-RK5 TO HC-HLD.
071900      IF HC-HLD < 1 OR > 4
072000          MOVE 1 TO HC-HLD.
072100      IF FMT-NUM-RK5 = 1 MOVE ZERO TO SUB6.
072200      IF FMT-NUM-RK5 = 2 MOVE 10 TO SUB6.
072300      IF FMT-NUM-RK5 = 3 MOVE 20 TO SUB6.
072400      IF FMT-NUM-RK5 = 4 MOVE 30 TO SUB6.
072500 205-LP-TB.
072600      IF SUB5 = 10 PERFORM 020-RD-IN GO TO 040-LOAD-REC.
072700      ADD 1 TO SUB5.
072800      ADD 1 TO SUB6.
072900*      IF HRBG-PROD-WGT-RK5 (SUB5) > ZERO
073000*          ADD HRBG-PROD-WGT-RK5 (SUB5) TO GRAM-UP-TB (SUB6)
073100*          ADD HRBG-PROD-WGT-RK5 (SUB5) TO
073200*              GRAM-HC-TB (HC-HLD).
073300*          ADD 1 TO PLOT-TOT-HC-TB (HC-HLD).
073400*      MOVE CLS-PLANT-UTIL-RK5 (SUB5) TO UTIL-HLD.
073500*      MOVE PHNO-STG-RK5 (SUB5) TO PHNO-HLD.
073600*      IF UTIL-TB (SUB6) = ZERO
073700*          MOVE UTIL-HLD TO UTIL-TB (SUB6).
073800*      IF PHNO-TB (SUB6) = ZERO
073900*          MOVE PHNO-HLD TO PHNO-TB (SUB6).
074000*      IF UTIL-HLD > ZERO
074100*          MOVE MID-PT (UTIL-HLD) TO MID-PT-TB (SUB6)
074200*          ELSE MOVE ZERO TO MID-PT-TB (SUB6).
074300*      GO TO 205-LP-TB.
074400      MOVE CLS-PLANT-UTIL-RK5 (SUB5) TO UTIL-HLD.
074500      MOVE PHNO-STG-RK5 (SUB5) TO PHNO-HLD.
074600      IF (PHNO-STG-RK5 (SUB5) > ZERO)
074700          ADD 1 TO PHNO-PLOT-TOT
074800          MOVE PHNO-HLD TO PHNO-TAB (SUB6) .
074900      IF (HRBG-PROD-WGT-RK5 (SUB5) > ZERO)
075000          MOVE 1 TO AVAIL-SW
075100          ADD HRBG-PROD-WGT-RK5 (SUB5) TO
075200              GRAM-HC-TB (HC-HLD).
075300      IF (HRBG-PROD-WGT-RK5 (SUB5) > ZERO)
075400          AND (PHNO-STG-RK5 (SUB5) > ZERO)
075500          ADD HRBG-PROD-WGT-RK5 (SUB5) TO GRAM-UP-TB (SUB6)
075600          MOVE UTIL-HLD TO UTIL-TB (SUB6)
075700          MOVE PHNO-HLD TO PHNO-TB (SUB6)
075800          ELSE GO TO 205-LP-TB.
075900      IF UTIL-HLD > ZERO
076000          MOVE MID-PT (UTIL-HLD) TO MID-PT-TB (SUB6)
076100          ELSE MOVE ZERO TO MID-PT-TB (SUB6).

```



```

076200 MOVE ZERO TO AVAIL-TB (SUB6).
076300 IF CLS-PLANT-AVAIL-RK5 (SUB5) = " " OR "A"
076400 MOVE 1.00 TO AVAIL-TB (SUB6).
076500* IF CLS-PLANT-AVAIL-RK5 (SUB5) = "P"
076600* MOVE 0.50 TO AVAIL-TB (SUB6).
076700 IF CLS-PLANT-AVAIL-RK5 (SUB5) = "U"
076800 MOVE 0.00 TO AVAIL-TB (SUB6).
076900 IF CLS-PLANT-AVAIL-RK5 (SUB5) = "P"
077000 MOVE 0.75 TO AVAIL-TB (SUB6).
077100 IF CLS-PLANT-AVAIL-RK5 (SUB5) = "H"
077200 MOVE 0.50 TO AVAIL-TB (SUB6).
077300 IF CLS-PLANT-AVAIL-RK5 (SUB5) = "L"
077400 MOVE 0.25 TO AVAIL-TB (SUB6).
077500 GO TO 205-LP-TB.
077600 110-EXIT.
077700 EXIT.
077800 210-CAL-5-PROC.
077900 MOVE ZERO TO SUB6 UTIL-AVG PHNO-AVG.
078000 230-LP-TB.
078100 ADD 1 TO SUB6.
078200 IF SUB6 < 41
078300 GO TO 240-UTIL-PHENO.
078400 IF (PHNO-GRAMS-TOT > ZERO) AND (AVG-AVAIL-TOT > ZERO)
078500 DIVIDE PHNO-GRAMS-TOT INTO AVG-AVAIL-TOT
078600 GIVING AVG-AVAIL ROUNDED.
078700 IF PHNO-AVG-PLOT-TOT > ZERO
078800 DIVIDE PHNO-PLOT-TOT INTO PHNO-AVG-PLOT-TOT
078900 GIVING PHNO-PLOT-AVG ROUNDED.
079000 IF AUDIT = 1 GO TO 235-UP-DISPLAY.
079100 IF UTIL-MID-POINT-TOT > ZERO
079200 DIVIDE UTIL-GRAMS-TOT INTO UTIL-MID-POINT-TOT
079300 GIVING UTIL-AVG ROUNDED.
079400 IF PHNO-AVG-TOT > ZERO
079500 DIVIDE PHNO-GRAMS-TOT INTO PHNO-AVG-TOT
079600 GIVING PHNO-AVG ROUNDED.
079700 GO TO 245-CLEAR.
079800 235-UP-DISPLAY.
079900 IF (PHNO-GRAMS-TOT > ZERO) AND (AVG-AVAIL-TOT > ZERO)
080000 AND (AUDIT = 1)
080100 MOVE 229 TO PAR-DR
080200 MOVE SPACE TO PR1-DR PR2-DR PR3-DR
080300 MOVE "PHNO-GRAMS-TOT" TO FAN-DR
080400 MOVE PHNO-GRAMS-TOT TO FA1-DR
080500 MOVE "/" TO SGN-DR
080600 MOVE AVG-AVAIL-TOT TO FB1-DR
080700 MOVE "AVG-AVAIL-TOT" TO FBN-DR
080800 MOVE AVG-AVAIL TO FC2-DR
080900 MOVE "AVG-AVAIL" TO FCN-DR
081000 DISPLAY P-SPACE
081100 DISPLAY DIS-REC.
081200 IF UTIL-MID-POINT-TOT > ZERO
081300 DIVIDE UTIL-GRAMS-TOT INTO UTIL-MID-POINT-TOT
081400 GIVING UTIL-AVG ROUNDED
081500 MOVE 230 TO PAR-DR
081600 MOVE SPACE TO PR1-DR PR2-DR PR3-DR
081700 MOVE "UTIL-GRAMS-TOT" TO FAN-DR
081800 MOVE UTIL-GRAMS-TOT TO FA-DR

```

```

081900         MOVE "/" TO SGN-DR
082000         MOVE UTIL-MID-POINT-TOT TO FB3-DR
082100         MOVE "UTIL-MID-POINT-TOT" TO FBN-DR
082200         MOVE UTIL-AVG TO FC2-DR
082300         MOVE "UTIL-AVG" TO FCN-DR
082400         DISPLAY P-SPACE
082500         DISPLAY DIS-REC.
082600     IF PHNO-AVG-TOT > ZERO
082700         DIVIDE PHNO-GRAMS-TOT INTO PHNO-AVG-TOT
082800             GIVING PHNO-AVG ROUNDED
082900         MOVE 231 TO PAR-DR
083000         MOVE SPACE TO PR1-DR PR2-DR PR3-DR
083100         MOVE "PHNO-GRAMS-TOT" TO FAN-DR
083200         MOVE PHNO-GRAMS-TOT TO FA-DR
083300         MOVE "/" TO SGN-DR
083400         MOVE PHNO-AVG-TOT TO FB-DR
083500         MOVE "PHNO-AVG-TOT" TO FBN-DR
083600         MOVE PHNO-AVG TO FC-DR
083700         MOVE "PHNO-AVG" TO FCN-DR
083800         DISPLAY P-SPACE
083900         DISPLAY DIS-REC
084000         GO TO 245-CLEAR.
084100 240-UTIL-PHENO.
084200     MOVE MID-PT-TB (SUB6) TO MID-PT-HLD.
084300     IF (GRAM-UP-TB (SUB6) > ZERO) AND (AUDIT = ZERO)
084400         AND (PHNO-TB (SUB6) > ZERO)
084500         ADD GRAM-UP-TB (SUB6) TO UTIL-GRAMS-TOT.
084600     IF (GRAM-UP-TB (SUB6) > ZERO) AND (AUDIT = 1)
084700         AND (PHNO-TB (SUB6) > ZERO)
084800         ADD GRAM-UP-TB (SUB6) TO UTIL-GRAMS-TOT
084900         MOVE 232 TO PAR-DR
085000         MOVE SPACE TO PR1-DR PR2-DR PR3-DR
085100         MOVE "GRAM-UP-TAB (SUB6)" TO FAN-DR
085200         MOVE GRAM-UP-TB (SUB6) TO FA-DR
085300         MOVE "+" TO SGN-DR
085400         MOVE " = " TO FILLER-DR
085500         MOVE SPACE TO FBS-DR
085600         MOVE SPACE TO FBN-DR
085700         MOVE UTIL-GRAMS-TOT TO FC-DR
085800         MOVE "UTIL-GRAMS-TOT" TO FCN-DR
085900         MOVE "( ) " TO PR1-DR
086000         MOVE SUB6 TO SB1-DR
086100         DISPLAY P-SPACE
086200         DISPLAY DIS-REC.
086300     IF (MID-PT-TB (SUB6) > ZERO) AND
086400         (GRAM-UP-TB (SUB6) > ZERO)
086500         MULTIPLY MID-PT-HLD-RD BY GRAM-UP-TB (SUB6)
086600             GIVING UTIL-MP-ACUM
086700             ADD UTIL-MP-ACUM TO UTIL-MID-POINT-TOT.
086800     IF (MID-PT-TB (SUB6) > ZERO) AND
086900         (GRAM-UP-TB (SUB6) > ZERO)
087000         AND (AUDIT = 1)
087100         MOVE 233 TO PAR-DR
087200         MOVE SPACE TO PR1-DR PR2-DR PR3-DR
087300         MOVE "MID-PT-HLD-RD" TO FAN-DR
087400         MOVE MID-PT-HLD-RD TO FA2-DR
087500         MOVE "X" TO SGN-DR

```

```

087600      MOVE GRAM-UP-TB (SUB6) TO FB-DR
087700      MOVE "GRAM-UP-TB (SUB6)" TO FBN-DR
087800      MOVE UTIL-MP-ACUM TO FC3-DR
087900      MOVE "UTIL-MP-ACUM" TO FCN-DR
088000      MOVE "( ) " TO PR2-DR
088100      MOVE SUB6 TO SB2-DR
088200      DISPLAY P-SPACE
088300      DISPLAY DIS-REC
088400      MOVE 234 TO PAR-DR
088500      MOVE SPACE TO PR1-DR PR2-DR PR3-DR
088600      MOVE "UTIL-MP-ACUM" TO FAN-DR
088700      MOVE UTIL-MP-ACUM TO FA3-DR
088800      MOVE "+" TO SGN-DR
088900      MOVE " = " TO FILLER-DR
089000      MOVE SPACE TO FBS-DR
089100      MOVE SPACE TO FBN-DR
089200      MOVE UTIL-MID-POINT-TOT TO FC3-DR
089300      MOVE "UTIL-MID-POINT-TOT" TO FCN-DR
089400      DISPLAY P-SPACE
089500      DISPLAY DIS-REC.
089600      IF PHNO-TAB (SUB6) > ZERO
089700          ADD PHNO-TAB (SUB6) TO PHNO-AVG-PLOT-TOT.
089800      IF PHNO-TB (SUB6) > ZERO
089900          ADD GRAM-UP-TB (SUB6) TO PHNO-GRAMS-TOT.
090000      IF (PHNO-TB (SUB6) > ZERO) AND
090100          (GRAM-UP-TB (SUB6) > ZERO)
090200          MULTIPLY PHNO-TB (SUB6) BY GRAM-UP-TB (SUB6)
090300          GIVING PHNO-ACUM
090400          ADD PHNO-ACUM TO PHNO-AVG-TOT.
090500      IF (PHNO-TB (SUB6) > ZERO) AND
090600          (GRAM-UP-TB (SUB6) > ZERO) AND (AUDIT = 1)
090700          MOVE 235 TO PAR-DR
090800          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
090900          MOVE "PHNO-TB (SUB6)" TO FAN-DR
091000          MOVE PHNO-TB (SUB6) TO FA-DR
091100          MOVE "X" TO SGN-DR
091200          MOVE GRAM-UP-TB (SUB6) TO FB-DR
091300          MOVE "GRAM-UP-TB (SUB6)" TO FBN-DR
091400          MOVE PHNO-ACUM TO FC-DR
091500          MOVE "PHNO-ACUM" TO FCN-DR
091600          MOVE "( ) " TO PR2-DR
091700          MOVE SUB6 TO SB2-DR
091800          DISPLAY P-SPACE
091900          DISPLAY DIS-REC.
092000      IF (PHNO-TB (SUB6) > ZERO) AND
092100          (GRAM-UP-TB (SUB6) > ZERO)
092200          NEXT SENTENCE ELSE
092300          GO TO 230-LP-TB.
092400      MOVE AVAIL-TB (SUB6) TO AVG-AVAIL-PCT.
092500      MOVE GRAM-UP-TB (SUB6) TO GRAM-UP-TB-HLD.
092600      MULTIPLY AVG-AVAIL-PCT BY GRAM-UP-TB-HLD
092700          GIVING AVG-AVAIL-SUM.
092800      ADD AVG-AVAIL-SUM TO AVG-AVAIL-TOT.
092900      IF (AUDIT = 1)
093000          MOVE 236 TO PAR-DR
093100          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
093200          MOVE "AVAIL-TB (SUB6)" TO FAN-DR

```

```

093300      MOVE AVAIL-TB (SUB6) TO FA2-DR
093400      MOVE "X" TO SGN-DR
093500      MOVE GRAM-UP-TB (SUB6) TO FB1-DR
093600      MOVE "GRAM-UP-TB (SUB6)" TO FBN-DR
093700      MOVE AVG-AVAIL-SUM TO FC1-DR
093800      MOVE "AVG-AVAIL-SUM" TO FCN-DR
093900      MOVE "( ) " TO PR2-DR
094000      MOVE SUB6 TO SB2-DR
094100      DISPLAY P-SPACE
094200      DISPLAY DIS-REC.
094300      GO TO 230-LP-TB.
094400 245-CLEAR.
094500      INITIALIZE UTIL-PHENO-TABLE SUB5 SUB6.
094600 210-EXIT.
094700      EXIT.
094800 300-REC-6-PROC.
094900      MOVE PLANT-TYP-RK6 TO TYPE-SPEC-HLD.
095000      IF PLOT-SIZE-RK6 = 1
095100          MOVE 100 TO ACRE-FRAC-FAH ELSE
095200          MOVE 200 TO ACRE-FRAC-FAH.
095300      MOVE FORM-CLS-KEY-6 TO FC-KEY.
095400      IF PW-PLOT-TOT = ZERO MOVE 10 TO PW-PLOT-TOT.
095500      MOVE PLOTS-CHRZ-HLD TO PLOT-TOT-FC-TB (FC-KEY).
095600      IF FORM-CLS-KEY-6 < 1 OR > 5
095700          MOVE 6 TO FORM-CLS-KEY-6 FC-KEY.
095800      MOVE TOT-PLANTS (TAB-KEY-0) TO PLANT-TOT-HLD.
095900*      IF FAC-IN NOT = FAC-HLD
096000*          ADD 1 TO PLOT-TOT-FC-TB (FC-KEY).
096100      ADD PLANT-TOT-HLD TO PLANT-TOT-FC-TB (FC-KEY).
096200      IF AUDIT = 1
096300          MOVE 300 TO PAR-DR
096400          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
096500          MOVE "PLANT-TOT-HLD" TO FAN-DR
096600          MOVE PLANT-TOT-HLD TO FA-DR
096700          MOVE "+" TO SGN-DR
096800          MOVE " = " TO FILLER-DR
096900          MOVE SPACE TO FBS-DR
097000          MOVE SPACE TO FBN-DR
097100          MOVE PLANT-TOT-FC-TB (FC-KEY) TO FC-DR
097200          MOVE "PLANT-TOT-FC-TB (FC-KEY)" TO FCN-DR
097300          MOVE "( ) " TO PR3-DR
097400          MOVE FC-KEY TO SB3-DR
097500          DISPLAY P-SPACE
097600          DISPLAY DIS-REC.
097700      PERFORM 020-RD-IN.
097800      GO TO 040-LOAD-REC.
097900 310-CAL-6-PROC.
098000      MOVE ZERO TO SUB4.
098100 320-LP-TB.
098200      ADD 1 TO SUB4.
098300      IF SUB4 = 7
098400          MOVE ZERO TO SUB4
098500          GO TO 310-EXIT.
098600      IF (PLANT-TOT-FC-TB (SUB4) = ZERO)
098700          GO TO 320-LP-TB.
098800      IF TYPE-SPEC-HLD = "T" OR "S"
098900          MULTIPLY ACRE-FRAC-FAH BY PLANT-TOT-FC-TB (SUB4)

```

```

099000         GIVING PLANTS-ACUM
099100         DIVIDE PLOT-TOT-FC-TB (SUB4) INTO PLANTS-ACUM
099200         GIVING PIA-FC (SUB4) ROUNDED.
099300     IF (TYPE-SPEC-HLD = "T" OR "S")
099400         AND (AUDIT = 1)
099500         MOVE 320 TO PAR-DR
099600         MOVE SPACE TO PR1-DR PR2-DR PR3-DR
099700         MOVE "ACRE-FRAC-FAH" TO FAN-DR
099800         MOVE ACRE-FRAC-FAH TO FA-DR
099900         MOVE "X" TO SGN-DR
100000         MOVE PLANT-TOT-FC-TB (SUB4) TO FB-DR
100100         MOVE "PLANT-TOT-FC-TB (SUB4)" TO FBN-DR
100200         MOVE PLANTS-ACUM TO FC-DR
100300         MOVE "PLANTS-ACUM" TO FCN-DR
100400         DISPLAY P-SPACE
100500         DISPLAY DIS-REC
100600         MOVE 320 TO PAR-DR
100700         MOVE SPACE TO PR1-DR PR2-DR PR3-DR
100800         MOVE "PLOT-TOT-FC-TB (SUB4)" TO FAN-DR
100900         MOVE PLOT-TOT-FC-TB (SUB4) TO FA-DR
101000         MOVE "/" TO SGN-DR
101100         MOVE PLANTS-ACUM TO FB-DR
101200         MOVE "PLANTS-ACUM" TO FBN-DR
101300         MOVE PIA-FC (SUB4) TO FC-DR
101400         MOVE "PIA-FC (SUB4)" TO FCN-DR
101500         MOVE "( ) " TO PR1-DR
101600         MOVE SUB4 TO SB1-DR
101700         MOVE "( ) " TO PR3-DR
101800         MOVE SUB4 TO SB3-DR
101900         DISPLAY P-SPACE
102000         DISPLAY DIS-REC.
102100     IF (TYPE-SPEC-HLD = "G" OR "F")
102200         AND (PLOT-SAMP-SZ-FAH = ZERO)
102300         IF PLOT-SIZE-0 = 1 MOVE 435.60 TO PLOT-SAMP-SZ-FAH
102400         ELSE
102500         IF PLOT-SIZE-0 = 2 MOVE 217.80 TO PLOT-SAMP-SZ-FAH.
102600     IF TYPE-SPEC-HLD = "G" OR "F"
102700         MULTIPLY PLOT-TOT-FC-TB (SUB4) BY PLOT-SAMP-SZ-FAH
102800         GIVING ACRE-SF-TOT
102900         MULTIPLY 43560 BY PLANT-TOT-FC-TB (SUB4)
103000         GIVING PLANTS-ACUM
103100         DIVIDE ACRE-SF-TOT INTO PLANTS-ACUM
103200         GIVING PIA-FC (SUB4) ROUNDED.
103300     IF (TYPE-SPEC-HLD = "G" OR "F")
103400         AND (AUDIT = 1)
103500         MOVE 320 TO PAR-DR
103600         MOVE SPACE TO PR1-DR PR2-DR PR3-DR
103700         MOVE "PLOT-TOT-FC-TB (SUB4)" TO FAN-DR
103800         MOVE PLOT-TOT-FC-TB (SUB4) TO FA-DR
103900         MOVE "X" TO SGN-DR
104000         MOVE PLOT-SAMP-SZ-FAH TO FB2-DR
104100         MOVE "PLOT-SAMP-SZ-FAH" TO FBN-DR
104200         MOVE ACRE-SF-TOT TO FC1-DR
104300         MOVE "ACRE-SF-TOT" TO FCN-DR
104400         MOVE "( ) " TO PR1-DR
104500         MOVE SUB4 TO SB1-DR
104600         DISPLAY P-SPACE

```

```

104700      DISPLAY DIS-REC
104800      MOVE 322 TO PAR-DR
104900      MOVE SPACE TO PR1-DR PR2-DR PR3-DR
105000      MOVE "CONSTANT" TO FAN-DR
105100      MOVE 43560 TO FA-DR
105200      MOVE "X" TO SGN-DR
105300      MOVE PLANT-TOT-FC-TB (SUB4) TO FB-DR
105400      MOVE "PLANT-TOT-FC-TB (SUB4)" TO FBN-DR
105500      MOVE PLANTS-ACUM TO FC-DR
105600      MOVE "PLANTS-ACUM" TO FCN-DR
105700      MOVE "( ) " TO PR2-DR
105800      MOVE SUB4 TO SB2-DR
105900      DISPLAY P-SPACE
106000      DISPLAY DIS-REC
106100      MOVE 323 TO PAR-DR
106200      MOVE SPACE TO PR1-DR PR2-DR PR3-DR
106300      MOVE "ACRE-SF-TOT" TO FAN-DR
106400      MOVE ACRE-SF-TOT TO FA1-DR
106500      MOVE "/" TO SGN-DR
106600      MOVE PLANTS-ACUM TO FB-DR
106700      MOVE "PLANTS-ACUM" TO FBN-DR
106800      MOVE PIA-FC (SUB4) TO FC-DR
106900      MOVE "PIA-FC (SUB4)" TO FCN-DR
107000      MOVE "( ) " TO PR3-DR
107100      MOVE SUB4 TO SB3-DR
107200      DISPLAY P-SPACE
107300      DISPLAY DIS-REC.
107400      GO TO 320-LP-TB.
107500 310-EXIT.
107600      EXIT.
107700 400-REC-7-PROC.
107800      MOVE PLANT-TYP-RK7 TO TYPE-SPEC-HLD.
107900      IF PLOT-SIZE-RK7 = 1
108000          MOVE 100 TO ACRE-FRAC-FAH ELSE
108100          MOVE 200 TO ACRE-FRAC-FAH.
108200      MOVE 8 TO AGE.
108300      IF AGE-CLS-PLANT-RK0 = "S" MOVE 1 TO AGE.
108400      IF AGE-CLS-PLANT-RK0 = "P" MOVE 2 TO AGE.
108500      IF AGE-CLS-PLANT-RK0 = "Y" MOVE 3 TO AGE.
108600      IF AGE-CLS-PLANT-RK0 = "M" MOVE 4 TO AGE.
108700      IF AGE-CLS-PLANT-RK0 = "O" MOVE 5 TO AGE.
108800      IF AGE-CLS-PLANT-RK0 = "D" MOVE 6 TO AGE.
108900      IF AGE-CLS-PLANT-RK0 = "R" MOVE 7 TO AGE.
109000      MOVE TOT-PLANTS (TAB-KEY-0) TO PLANT-TOT-HLD.
109100      IF PW-PLOT-TOT = ZERO MOVE 10 TO PW-PLOT-TOT.
109200      MOVE PLOTS-CHRZ-HLD TO PLOT-TOT-AC-TB (AGE).
109300*      IF FAC-IN NOT = FAC-HLD
109400*          ADD 1 TO PLOT-TOT-AC-TB (AGE).
109500      ADD PLANT-TOT-HLD TO PLANT-TOT-AC-TB (AGE).
109600      ADD PLANT-TOT-HLD TO PLANT-TOT-HGT.
109700*      IF TYPE-SPEC-HLD = "G" OR "F"
109800*          ADD PLANT-TOT-HLD TO PLANT-TOT-AVAIL.
109900      IF TYPE-SPEC-HLD = "T" OR "S"
110000          ADD PLANT-TOT-HLD TO PLANT-TOT-CROWN.
110100      IF (AVG-HGT-PLANT-RK0 > ZERO) AND PLANT-TOT-HLD > ZERO
110200          MULTIPLY PLANT-TOT-HLD BY AVG-HGT-PLANT-RK0
110300          GIVING AVG-HGT-SUM

```

```

110400      ADD AVG-HGT-SUM TO AVG-HGT-TOT.
110500      IF (AVG-HGT-PLANT-RK0 > ZERO) AND (PLANT-TOT-HLD > ZERO)
110600          AND (AUDIT = 1)
110700          MOVE 400 TO PAR-DR
110800          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
110900          MOVE "PLANT-TOT-HLD" TO FAN-DR
111000          MOVE PLANT-TOT-HLD TO FA-DR
111100          MOVE "X" TO SGN-DR
111200          MOVE AVG-HGT-PLANT-RK0 TO FB1-DR
111300          MOVE "AVG-HGT-PLANT-RK0" TO FBN-DR
111400          MOVE AVG-HGT-SUM TO FC1-DR
111500          MOVE "AVG-HGT-SUM" TO FCN-DR
111600          DISPLAY P-SPACE
111700          DISPLAY DIS-REC
111800          MOVE 401 TO PAR-DR
111900          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
112000          MOVE "AVG-HGT-SUM" TO FAN-DR
112100          MOVE AVG-HGT-SUM TO FA1-DR
112200          MOVE "+" TO SGN-DR
112300          MOVE " = " TO FILLER-DR
112400          MOVE SPACE TO FBS-DR
112500          MOVE SPACE TO FBN-DR
112600          MOVE AVG-HGT-TOT TO FC1-DR
112700          MOVE "AVG-HGT-TOT" TO FCN-DR
112800          DISPLAY P-SPACE
112900          DISPLAY DIS-REC.
113000      IF (TYPE-SPEC-HLD = "T" OR "S") AND
113100          (AVG-CROWN-DIA-RK0 > ZERO) AND
113200          (PLANT-TOT-HLD > ZERO)
113300          MULTIPLY PLANT-TOT-HLD BY AVG-CROWN-DIA-RK0
113400          GIVING AVG-CROWN-SUM
113500          ADD AVG-CROWN-SUM TO AVG-CROWN-TOT.
113600      IF (TYPE-SPEC-HLD = "T" OR "S") AND
113700          (AVG-CROWN-DIA-RK0 > ZERO) AND
113800          (PLANT-TOT-HLD > ZERO)
113900          AND (AUDIT = 1)
114000          MOVE 402 TO PAR-DR
114100          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
114200          MOVE "PLANT-TOT-HLD" TO FAN-DR
114300          MOVE PLANT-TOT-HLD TO FA-DR
114400          MOVE "X" TO SGN-DR
114500          MOVE AVG-CROWN-DIA-RK0 TO FB1-DR
114600          MOVE "AVG-CROWN-DIA-RK0" TO FBN-DR
114700          MOVE AVG-CROWN-SUM TO FC1-DR
114800          MOVE "AVG-CROWN-SUM" TO FCN-DR
114900          DISPLAY P-SPACE
115000          DISPLAY DIS-REC
115100          MOVE 402 TO PAR-DR
115200          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
115300          MOVE "AVG-CROWN-SUM" TO FAN-DR
115400          MOVE AVG-CROWN-SUM TO FA1-DR
115500          MOVE "+" TO SGN-DR
115600          MOVE " = " TO FILLER-DR
115700          MOVE SPACE TO FBS-DR
115800          MOVE SPACE TO FBN-DR
115900          MOVE AVG-CROWN-TOT TO FC1-DR
116000          MOVE "AVG-CROWN-TOT" TO FCN-DR

```

```

116100         DISPLAY P-SPACE
116200         DISPLAY DIS-REC.
116300*        IF TYPE-SPEC-HLD = "G" OR "F" NEXT SENTENCE
116400*         ELSE
116500*         PERFORM 020-RD-IN
116600*         GO TO 040-LOAD-REC.
116700*        IF CLS-PLANT-AVAIL-RK0 = " " OR "A"
116800*         MOVE 1.00 TO AVG-AVAIL-PCT.
116900*        IF CLS-PLANT-AVAIL-RK0 = "P" MOVE 0.50 TO AVG-AVAIL-PCT.
117000*        IF CLS-PLANT-AVAIL-RK0 = "U" MOVE 0.00 TO AVG-AVAIL-PCT.
117100*        IF CLS-PLANT-AVAIL-RK0 = "P" MOVE 0.75 TO AVG-AVAIL-PCT.
117200*        IF CLS-PLANT-AVAIL-RK0 = "H" MOVE 0.50 TO AVG-AVAIL-PCT.
117300*        IF CLS-PLANT-AVAIL-RK0 = "L" MOVE 0.25 TO AVG-AVAIL-PCT.
117400*        IF (AVG-AVAIL-PCT > ZERO) AND
117500*         (PLANT-TOT-HLD > ZERO)
117600*         MULTIPLY AVG-AVAIL-PCT BY PLANT-TOT-HLD
117700*         GIVING AVG-AVAIL-SUM
117800*         ADD AVG-AVAIL-SUM TO AVG-AVAIL-TOT.
117900*        IF (AVG-AVAIL-PCT > ZERO) AND
118000*         (PLANT-TOT-HLD > ZERO)
118100*         AND (AUDIT = 1)
118200*         MOVE 403 TO PAR-DR
118300*         MOVE SPACE TO PR1-DR PR2-DR PR3-DR
118400*         MOVE "AVG-AVAIL-PCT" TO FAN-DR
118500*         MOVE AVG-AVAIL-PCT TO FA2-DR
118600*         MOVE "X" TO SGN-DR
118700*         MOVE PLANT-TOT-HLD TO FB-DR
118800*         MOVE "PLANT-TOT-HLD" TO FBN-DR
118900*         MOVE AVG-AVAIL-SUM TO FC-DR
119000*         MOVE "AVG-AVAIL-SUM" TO FCN-DR
119100*         DISPLAY P-SPACE
119200*         DISPLAY DIS-REC
119300*         MOVE 404 TO PAR-DR
119400*         MOVE SPACE TO PR1-DR PR2-DR PR3-DR
119500*         MOVE "AVG-AVAIL-SUM" TO FAN-DR
119600*         MOVE AVG-AVAIL-SUM TO FA-DR
119700*         MOVE "+" TO SGN-DR
119800*         MOVE " = " TO FILLER-DR
119900*         MOVE SPACE TO FBS-DR
120000*         MOVE SPACE TO FBN-DR
120100*         MOVE AVG-AVAIL-TOT TO FC-DR
120200*         MOVE "AVG-AVAIL-TOT" TO FCN-DR
120300*         DISPLAY P-SPACE
120400*         DISPLAY DIS-REC.
120500         PERFORM 020-RD-IN.
120600         GO TO 040-LOAD-REC.
120700 410-CAL-7-PROC.
120800         MOVE ZERO TO SUB4.
120900 412-LP-TB.
121000         ADD 1 TO SUB4.
121100         IF SUB4 = 8
121200             MOVE ZERO TO SUB4
121300             GO TO 430-HGT-CROWN-CAL.
121400         IF (PLANT-TOT-AC-TB (SUB4) = ZERO)
121500             GO TO 412-LP-TB.
121600         IF TYPE-SPEC-HLD = "T" OR "S"
121700             MULTIPLY ACRE-FRAC-FAH BY PLANT-TOT-AC-TB (SUB4)

```



```

121800      GIVING PLANTS-ACUM
121900      DIVIDE PLOT-TOT-AC-TB (SUB4) INTO PLANTS-ACUM
122000      GIVING PIA-AC (SUB4).
122100  IF (TYPE-SPEC-HLD = "T" OR "S")
122200      AND (AUDIT = 1)
122300      MOVE 412 TO PAR-DR
122400      MOVE SPACE TO PR1-DR PR2-DR PR3-DR
122500      MOVE "ACRE-FRAC-FAH" TO FAN-DR
122600      MOVE ACRE-FRAC-FAH TO FA-DR
122700      MOVE "X" TO SGN-DR
122800      MOVE PLANT-TOT-AC-TB (SUB4) TO FB-DR
122900      MOVE "PLANT-TOT-AC-TB (SUB4)" TO FBN-DR
123000      MOVE PLANTS-ACUM TO FC-DR
123100      MOVE "PLANTS-ACUM" TO FCN-DR
123200      MOVE "( ) " TO PR2-DR
123300      MOVE SUB4 TO SB2-DR
123400      DISPLAY P-SPACE
123500      DISPLAY DIS-REC
123600      MOVE 413 TO PAR-DR
123700      MOVE SPACE TO PR1-DR PR2-DR PR3-DR
123800      MOVE "PLOT-TOT-AC-TB (SUB4)" TO FAN-DR
123900      MOVE PLOT-TOT-AC-TB (SUB4) TO FA-DR
124000      MOVE "/" TO SGN-DR
124100      MOVE PLANTS-ACUM TO FB-DR
124200      MOVE "PLANTS-ACUM" TO FBN-DR
124300      MOVE PIA-AC (SUB4) TO FC-DR
124400      MOVE "PIA-AC (SUB4)" TO FCN-DR
124500      MOVE "( ) " TO PR1-DR
124600      MOVE SUB4 TO SB1-DR
124700      MOVE "( ) " TO PR3-DR
124800      MOVE SUB4 TO SB3-DR
124900      DISPLAY P-SPACE
125000      DISPLAY DIS-REC.
125100  IF (TYPE-SPEC-HLD = "G" OR "F")
125200      AND (PLOT-SAMP-SZ-FAH = ZERO)
125300          IF PLOT-SIZE-0 = 1 MOVE 435.69 TO PLOT-SAMP-SZ-FAH
125400          ELSE
125500          IF PLOT-SIZE-0 = 2 MOVE 217.80 TO PLOT-SAMP-SZ-FAH.
125600  IF TYPE-SPEC-HLD = "G" OR "F"
125700      MULTIPLY PLOT-TOT-AC-TB (SUB4) BY PLOT-SAMP-SZ-FAH
125800      GIVING ACRE-SF-TOT
125900      MULTIPLY 43560 BY PLANT-TOT-AC-TB (SUB4)
126000      GIVING PLANTS-ACUM
126100      DIVIDE ACRE-SF-TOT INTO PLANTS-ACUM
126200      GIVING PIA-AC (SUB4) ROUNDED.
126300  IF (TYPE-SPEC-HLD = "G" OR "F")
126400      AND (AUDIT = 1)
126500      MOVE 413 TO PAR-DR
126600      MOVE SPACE TO PR1-DR PR2-DR PR3-DR
126700      MOVE "PLOT-TOT-AC-TB (SUB4)" TO FAN-DR
126800      MOVE PLOT-TOT-AC-TB (SUB4) TO FA-DR
126900      MOVE "X" TO SGN-DR
127000      MOVE PLOT-SAMP-SZ-FAH TO FB2-DR
127100      MOVE "PLOT-SAMP-SZ-FAH" TO FBN-DR
127200      MOVE ACRE-SF-TOT TO FC1-DR
127300      MOVE "ACRE-SF-TOT" TO FCN-DR
127400      MOVE "( ) " TO PR1-DR

```

```

127500      MOVE SUB4 TO SB1-DR
127600      DISPLAY P-SPACE
127700      DISPLAY DIS-REC
127800      MOVE 414 TO PAR-DR
127900      MOVE SPACE TO PR1-DR PR2-DR PR3-DR
128000      MOVE "CONSTANT" TO FAN-DR
128100      MOVE 43560 TO FA-DR
128200      MOVE "X" TO SGN-DR
128300      MOVE PLANT-TOT-AC-TB (SUB4) TO FB-DR
128400      MOVE "PLANT-TOT-AC-TB (SUB4)" TO FBN-DR
128500      MOVE PLANTS-ACUM TO FC-DR
128600      MOVE "PLANTS-ACUM" TO FCN-DR
128700      MOVE "( ) " TO PR2-DR
128800      MOVE SUB4 TO SB2-DR
128900      DISPLAY P-SPACE
129000      DISPLAY DIS-REC
129100      MOVE 415 TO PAR-DR
129200      MOVE SPACE TO PR1-DR PR2-DR PR3-DR
129300      MOVE "ACRE-SF-TOT" TO FAN-DR
129400      MOVE ACRE-SF-TOT TO FA1-DR
129500      MOVE "/" TO SGN-DR
129600      MOVE PLANTS-ACUM TO FB-DR
129700      MOVE "PLANTS-ACUM" TO FBN-DR
129800      MOVE PIA-AC (SUB4) TO FC-DR
129900      MOVE "PIA-AC (SUB4)" TO FCN-DR
130000      MOVE "( ) " TO PR3-DR
130100      MOVE SUB4 TO SB3-DR
130200      DISPLAY P-SPACE
130300      DISPLAY DIS-REC.
130400      GO TO 412-LP-TB.
130500 430-HGT-CROWN-CAL.
130600      IF (PLANT-TOT-HGT > ZERO) AND (AVG-HGT-TOT > ZERO)
130700          DIVIDE PLANT-TOT-HGT INTO AVG-HGT-TOT
130800          GIVING AVG-HGT.
130900      IF (PLANT-TOT-HGT > ZERO) AND (AVG-HGT-TOT > ZERO)
131000          AND (AUDIT = 1)
131100          MOVE 430 TO PAR-DR
131200          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
131300          MOVE "PLANT-TOT-HGT" TO FAN-DR
131400          MOVE PLANT-TOT-HGT TO FA-DR
131500          MOVE "/" TO SGN-DR
131600          MOVE AVG-HGT-TOT TO FB1-DR
131700          MOVE "AVG-HGT-TOT" TO FBN-DR
131800          MOVE AVG-HGT TO FC1-DR
131900          MOVE "AVG-HGT" TO FCN-DR
132000          DISPLAY P-SPACE
132100          DISPLAY DIS-REC.
132200      IF (PLANT-TOT-CROWN > ZERO) AND (AVG-CROWN-TOT > ZERO)
132300          DIVIDE PLANT-TOT-CROWN INTO AVG-CROWN-TOT
132400          GIVING AVG-CROWN.
132500      IF (PLANT-TOT-CROWN > ZERO) AND (AVG-CROWN-TOT > ZERO)
132600          AND (AUDIT = 1)
132700          MOVE 431 TO PAR-DR
132800          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
132900          MOVE "PLANT-TOT-CROWN" TO FAN-DR
133000          MOVE PLANT-TOT-CROWN TO FA-DR
133100          MOVE "/" TO SGN-DR

```

```

133200      MOVE AVG-CROWN-TOT TO FB1-DR
133300      MOVE "AVG-CROWN-TOT" TO FBN-DR
133400      MOVE AVG-CROWN TO FC1-DR
133500      MOVE "AVG-CROWN" TO FCN-DR
133600      DISPLAY P-SPACE
133700      DISPLAY DIS-REC.
133800*     IF (PLANT-TOT-AVAIL > ZERO) AND (AVG-AVAIL-TOT > ZERO)
133900*     DIVIDE PLANT-TOT-AVAIL INTO AVG-AVAIL-TOT
134000*     GIVING AVG-AVAIL.
134100*     IF (PLANT-TOT-AVAIL > ZERO) AND (AVG-AVAIL-TOT > ZERO)
134200*     AND (AUDIT = 1)
134300*     MOVE 432 TO PAR-DR
134400*     MOVE SPACE TO PR1-DR PR2-DR PR3-DR
134500*     MOVE "PLANT-TOT-AVAIL" TO FAN-DR
134600*     MOVE PLANT-TOT-AVAIL TO FA-DR
134700*     MOVE "/" TO SGN-DR
134800*     MOVE AVG-AVAIL-TOT TO FB-DR
134900*     MOVE "AVG-AVAIL-TOT" TO FBN-DR
135000*     MOVE AVG-AVAIL TO FC2-DR
135100*     MOVE "AVG-AVAIL" TO FCN-DR
135200*     DISPLAY P-SPACE
135300*     DISPLAY DIS-REC.
135400      MOVE ZERO TO SUB2.
135500      SUBTRACT UTIL-AVG-2 FROM 100 GIVING PW-WUAF.
135600      IF AUDIT = 1
135700          MOVE 433 TO PAR-DR
135800          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
135900          MOVE "CONSTANT" TO FAN-DR
136000          MOVE 100 TO FA-DR
136100          MOVE "-" TO SGN-DR
136200          MOVE UTIL-AVG-2 TO FB-DR
136300          MOVE "UTIL-AVG-2" TO FBN-DR
136400          MOVE PW-WUAF TO FC-DR
136500          MOVE "PW-WUAF" TO FCN-DR
136600          DISPLAY P-SPACE
136700          DISPLAY DIS-REC.
136800      DIVIDE PW-WUAF INTO 100 GIVING
136900          PW-WAUF.
137000      IF AUDIT = 1
137100          MOVE 434 TO PAR-DR
137200          MOVE SPACE TO PR1-DR PR2-DR PR3-DR
137300          MOVE "PW-WUAF" TO FAN-DR
137400          MOVE PW-WUAF TO FA-DR
137500          MOVE "/" TO SGN-DR
137600          MOVE 100 TO FB-DR
137700          MOVE "CONSTANT" TO FBN-DR
137800          MOVE PW-WAUF TO FC2-DR
137900          MOVE "PW-WAUF" TO FCN-DR
138000          DISPLAY P-SPACE
138100          DISPLAY DIS-REC.
138200      450-LP.
138300      IF SUB2 = 4
138400          MOVE ZERO TO SUB2
138500          GO TO 460-BUILD-SUMMARY.
138600      ADD 1 TO SUB2.
138700      IF GRAM-HC-TB (SUB2) = ZERO GO TO 450-LP.
138800      MOVE GRAM-HC-TB (SUB2) TO PW-GRAMS-HLD.

```

```

138900*  MOVE PLOT-TOT-HC-TB (SUB2) TO PW-PLOT-TOT.
139000    MULTIPLY 100 BY PW-GRAMS-HLD GIVING PW-GRAMS.
139100    IF AUDIT = 1
139200      MOVE 450 TO PAR-DR
139300      MOVE SPACE TO PR1-DR PR2-DR PR3-DR
139400      MOVE "PW-GRAMS-HLD" TO FAN-DR
139500      MOVE PW-GRAMS-HLD TO FA-DR
139600      MOVE "X" TO SGN-DR
139700      MOVE 100 TO FB-DR
139800      MOVE "CONSTANT" TO FBN-DR
139900      MOVE PW-GRAMS TO FC-DR
140000      MOVE "PW-GRAMS" TO FCN-DR
140100      MOVE "( ) " TO PR1-DR
140200      MOVE SUB2 TO SB1-DR
140300      DISPLAY P-SPACE
140400      DISPLAY DIS-REC.
140500    DIVIDE PW-PLOT-TOT INTO PW-GRAMS GIVING PW-GRAMS-HLD.
140600    IF AUDIT = 1
140700      MOVE 451 TO PAR-DR
140800      MOVE SPACE TO PR1-DR PR2-DR PR3-DR
140900      MOVE "PW-PLOT-TOT" TO FAN-DR
141000      MOVE PW-PLOT-TOT TO FA-DR
141100      MOVE "/" TO SGN-DR
141200      MOVE PW-GRAMS TO FB-DR
141300      MOVE "PW-GRAMS" TO FBN-DR
141400      MOVE PW-GRAMS-HLD TO FC-DR
141500      MOVE "PW-GRAMS-HLD" TO FCN-DR
141600      MOVE "( ) " TO PR1-DR
141700      MOVE SUB2 TO SB1-DR
141800      DISPLAY P-SPACE
141900      DISPLAY DIS-REC.
142000    MULTIPLY .96 BY PW-GRAMS-HLD GIVING PW-GRAMS.
142100    IF AUDIT = 1
142200      MOVE 452 TO PAR-DR
142300      MOVE SPACE TO PR1-DR PR2-DR PR3-DR
142400      MOVE "PW-GRAMS-HLD" TO FAN-DR
142500      MOVE PW-GRAMS-HLD TO FA-DR
142600      MOVE "X" TO SGN-DR
142700      MOVE CON96 TO FB2-DR
142800      MOVE "CONSTANT" TO FBN-DR
142900      MOVE PW-GRAMS TO FC-DR
143000      MOVE "PW-GRAMS" TO FCN-DR
143100      MOVE "( ) " TO PR1-DR
143200      MOVE SUB2 TO SB1-DR
143300      DISPLAY P-SPACE
143400      DISPLAY DIS-REC.
143500    DIVIDE PW-SIZE INTO PW-GRAMS GIVING PW-LBS-ACRE ROUNDED.
143600    IF AUDIT = 1
143700      MOVE 453 TO PAR-DR
143800      MOVE SPACE TO PR1-DR PR2-DR PR3-DR
143900      MOVE "PW-SIZE" TO FAN-DR
144000      MOVE PW-SIZE TO FA2-DR
144100      MOVE "/" TO SGN-DR
144200      MOVE PW-GRAMS TO FB-DR
144300      MOVE "PW-GRAMS" TO FBN-DR
144400      MOVE PW-LBS-ACRE TO FC-DR
144500      MOVE "PW-LBS-ACRE" TO FCN-DR

```

```

144600         DISPLAY P-SPACE
144700         DISPLAY DIS-REC.
144800     MULTIPLY PW-WAUF BY PW-LBS-ACRE
144900         GIVING PW-PROD (SUB2) ROUNDED.
145000     IF AUDIT = 1
145100         MOVE 454 TO PAR-DR
145200         MOVE SPACE TO PR1-DR PR2-DR PR3-DR
145300         MOVE "PW-WAUF" TO FAN-DR
145400         MOVE PW-WAUF TO FA2-DR
145500         MOVE "X" TO SGN-DR
145600         MOVE PW-LBS-ACRE TO FB-DR
145700         MOVE "PW-LBS-ACRE" TO FBN-DR
145800         MOVE PW-PROD (SUB2) TO FC-DR
145900         MOVE "PW-PROD (SUB2)" TO FCN-DR
146000         MOVE "( ) " TO PR3-DR
146100         MOVE SUB2 TO SB3-DR
146200         DISPLAY P-SPACE
146300         DISPLAY DIS-REC.
146400     GO TO 450-LP.
146500 460-BUILD-SUMMARY.
146600     MOVE SPACE TO DET-1 DET-2, REC-KEY8.
146700     MOVE SWA-SCH TO SWA-P.
146800     MOVE TRN-NUM-SCH TO TRN-P.
146900     MOVE SPECIES-CD-SCH TO SPECIES-CD-P.
147000     MOVE TYPE-SPEC-HLD TO SPECIES-TYPE-P.
147100     MOVE PLANT-TOTAL TO TOT-PLANTS-RK8 TOT-PLANTS-P.
147200     MOVE SWAT-CNTL-HLD TO SWAT-RK8.
147300     MOVE 8 TO REC-KEY-RK8.
147400     MOVE SPEC-HLD TO SPECIES-KEY-RK8.
147500     IF TYPE-SPEC-HLD = "T" OR "S"
147600         MOVE "3" TO PLANT-TYP-RK8 ELSE
147700         IF TYPE-SPEC-HLD = "G"
147800             MOVE "1" TO PLANT-TYP-RK8 ELSE
147900             IF TYPE-SPEC-HLD = "F"
148000                 MOVE "2" TO PLANT-TYP-RK8.
148100     MOVE AVG-HGT TO AVG-HT-RK8 AVG-HGT-P.
148200     MOVE AVG-CROWN TO AVG-CROWN-RK8 AVG-CROWN-P.
148300     IF (AVAIL-SW = ZERO) AND (AVG-AV-PCT = ZERO)
148400         MOVE 100 TO AVG-AV-PCT.
148500     MOVE ZERO TO AVAIL-SW.
148600     MOVE AVG-AV-PCT TO WTD-AVG-AVAIL-RK8 WTD-AVG-AVAIL-P
148700     IF UTIL-AVG-RD = 100 MOVE ZERO TO UTIL-AVG-RD.
148800     MOVE UTIL-AVG-RD TO WTD-AVG-UTIL-RK8 WTD-AVG-UTIL-P.
148900     IF PHNO-PLOT-AVG = ZERO
149000         MOVE 6 TO PHNO-PLOT-AVG.
149100     IF PHNO-AVG = ZERO
149200         MOVE PHNO-PLOT-AVG TO PHNO-AVG.
149300     MOVE PHNO-AVG TO WTD-AVG-PHNO-RK8 WTD-AVG-PHNO-P.
149400     MOVE GRAM-HC-TB-RD TO GRP-3-RK8.
149500     MOVE PW-GRP-PROD TO GRP-4-RK8.
149600     MOVE PIA-FC-RD TO GRP-1-RK8.
149700     MOVE PIA-AC2 TO GRP-2-RK8.
149800     MOVE ZERO TO SUB3.
149900 470-LP-TB.
150000     ADD 1 TO SUB3.
150100     IF SUB3 < 5
150200         MOVE TOT-GRAMS-RK8 (SUB3) TO GRAMS-HGT-CLS-P (SUB3)

```

```

150300     MOVE PW-PROD (SUB3) TO PROD-HGT-CLS-P (SUB3).
150400     IF SUB3 < 7
150500         MOVE FORM-CLS-RK8 (SUB3) TO PLANTS-FORM-CLS-P (SUB3)
150600         MOVE AGE-CLS-RK8 (SUB3) TO PLANTS-AGE-CLS-P (SUB3)
150700         GO TO 470-LP-TB.
150800     MOVE AGE-CLS-RK8 (SUB3) TO PLANTS-AGE-CLS-P (SUB3).
150900     MOVE REC-KEY8 TO FDR-D8.
151000     MOVE PLOTS-CHRZ-HLD TO PLOTS-CHRZ-D8.
151100     IF CHRZ-SW = 1
151200         MOVE PLOTS-CHRZ-HLD-2 TO PLOTS-CHRZ-HLD
151300         MOVE ZERO TO CHRZ-SW.
151400     WRITE FDR-D8.
151500     ADD 1 TO REC-CNT.
151600     MOVE SPACE TO DIS-DT1 DIS-DT2.
151700     INITIALIZE PLANT-TOT-TABLE, PLANT-CAL-TABLE,
151800         PLANT-CAL-HLD, UTIL-PHENO-TABLE, PLANT-TOTAL,
151900         UTIL-PHENO-HLD, HT-CLS-TABLE, FORM-CLS-TABLE,
152000         AGE-CLS-TABLE, FORM-AGE-HOLD, AVG-HGT-CROWN-AVL
152100         PROD-WGT-HLD DIS-DT1 DIS-DT2.
152200     IF PRT-SW = 1 GO TO 475-PASS.
152300     IF LINE-CNT > 50
152400         PERFORM 500-OFLO THRU 500-EXIT.
152500     WRITE FDR-P1 FROM DET-1 BEFORE 1.
152600     WRITE FDR-P1 FROM DET-2 BEFORE 1.
152700     WRITE FDR-P1 FROM P-SPACE BEFORE 1.
152800     ADD 3 TO LINE-CNT.
152900     475-PASS.
153000     IF END-SW = 1
153100         GO TO 700-END.
153200     IF SDRP-SCH NOT = SDRP-D7
153300         MOVE 99 TO LINE-CNT
153400         MOVE 0 TO SWAT-SW SPEC-SW
153500         GO TO 030-MV-IN.
153600     IF SWAT-SW = 1
153700         MOVE 0 TO SWAT-SW SPEC-SW
153800         MOVE 55 TO LINE-CNT
153900         GO TO 030-MV-IN.
154000     IF SPEC-SW = 1
154100         MOVE 0 TO SPEC-SW
154200         GO TO 030-MV-IN.
154300     500-OFLO.
154400     IF SDRP-SCH NOT = SDRP-HLD
154500         MOVE SDRP-SCH TO SDRP-HLD
154600         ELSE GO TO 510-WRITE.
154700     MOVE ADST-CD-SCH TO DE-CD-8822-DEC.
154800     MOVE 0003 TO DE-NO-8801-DEC.
154900     FIND ANY CODE-DEC.
155000     MOVE DB-STATUS TO DATA-BASE-STATUS.
155100     IF OK
155200         GET CODE-DEC
155300         MOVE DE-CD-NAM-8823-DEC TO FUNC-HLD
155400         MOVE ST-NM-HLD TO SN-HD-3
155500         ELSE MOVE "UNKNOWN" TO SN-HD-3
155600             DN-HD-3 RAN-HD-3 PN-HD-3
155700             GO TO 510-WRITE.
155800     MOVE SD-SCH TO DE-CD-8822-DEC.
155900     MOVE 0003 TO DE-NO-8801-DEC.

```

```

156000 FIND ANY CODE-DEC.
156100 MOVE DB-STATUS TO DATA-BASE-STATUS.
156200 IF OK
156300     GET CODE-DEC
156400     ELSE MOVE "UNKNOWN" TO
156500             DN-HD-3 RAN-HD-3 PN-HD-3
156600             GO TO 510-WRITE.
156700 FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
156800 MOVE DB-STATUS TO DATA-BASE-STATUS.
156900 IF OK
157000     GET CODE-EXPL-DECE
157100     MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HLD
157200     MOVE DIST-NM-HLD TO DN-HD-3
157300 ELSE
157400     MOVE "UNKNOWN" TO DN-HD-3 RAN-HD-3 PN-HD-3
157500     GO TO 510-WRITE.
157600 MOVE SDR-SCH TO DE-CD-8822-DEC.
157700 MOVE 0003 TO DE-NO-8801-DEC.
157800 FIND ANY CODE-DEC.
157900 MOVE DB-STATUS TO DATA-BASE-STATUS.
158000 IF OK
158100     GET CODE-DEC
158200     ELSE
158300     MOVE "UNKNOWN" TO RAN-HD-3 PN-HD-3
158400     GO TO 510-WRITE.
158500 FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
158600 MOVE DB-STATUS TO DATA-BASE-STATUS.
158700 IF OK
158800     GET CODE-EXPL-DECE
158900     MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HLD
159000     MOVE RA-NM-HLD TO RAN-HD-3
159100 ELSE
159200     MOVE "UNKNOWN" TO RAN-HD-3 PN-HD-3
159300     GO TO 510-WRITE.
159400 MOVE SDRP-SCH TO DE-CD-8822-DEC.
159500 MOVE 0003 TO DE-NO-8801-DEC.
159600 FIND ANY CODE-DEC.
159700 MOVE DB-STATUS TO DATA-BASE-STATUS.
159800 IF OK
159900     GET CODE-DEC
160000     ELSE MOVE "UNKNOWN" TO PN-HD-3
160100     GO TO 510-WRITE.
160200 FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
160300 MOVE DB-STATUS TO DATA-BASE-STATUS.
160400 IF OK
160500     GET CODE-EXPL-DECE
160600     MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HLD
160700     MOVE PU-NM-HLD TO PN-HD-3
160800 ELSE
160900     MOVE "UNKNOWN" TO PN-HD-3.
161000 510-WRITE.
161100 IF PRT-SW = 1 GO TO 500-EXIT.
161200 IF LINE-CNT = 99
161300     MOVE ZERO TO PG-CNT.
161400 ADD 1 TO PG-CNT.
161500* IF PG-CNT > 100
161600*     MOVE ZERO TO LINE-CNT

```

```

161700*          GO TO 500-EXIT.
161800          MOVE ZERO TO LINE-CNT.
161900          MOVE PG-CNT TO PG-HD-1.
162000          MOVE ADST-CD-SCH TO ST-HD-3.
162100          MOVE DIST-CD-SCH TO DS-HD-3.
162200          MOVE PLU-CD-SCH TO PS-HD-3.
162300          MOVE RA-CD-SCH TO RA-HD-3.
162400          WRITE FDR-P1 FROM P-SPACE BEFORE ADVANCING PAGE.
162500          WRITE FDR-P1 FROM HEAD-1 BEFORE 1.
162600          WRITE FDR-P1 FROM HEAD-2 BEFORE 1.
162700          WRITE FDR-P1 FROM HEAD-3 BEFORE 1.
162800          WRITE FDR-P1 FROM HEAD-4 BEFORE 2.
162900          WRITE FDR-P1 FROM HEAD-5 BEFORE 1.
163000          WRITE FDR-P1 FROM HEAD-6 BEFORE 1.
163100          WRITE FDR-P1 FROM HEAD-7 BEFORE 2.
163200          MOVE 10 TO LINE-CNT.
163300          500-EXIT.
163400          EXIT.
163500          700-END.
163600          DISPLAY REC-CNT "REC-CNT".
163700          CLOSE FILE-D7, FILE-D8, FILE-P1.  FINISH DIC-DE.
163800          STOP RUN.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES110U.
000300*          INITIAL EDIT/UPDATE OF PLANTS (PHENO/WEIGHTS),
000400*          ANIMALS (FORAGE/USE) FACTORS - V6, VF, VU, VP FORMATS
000500*
000600 AUTHOR. CARLANDER, RON BAKER.
000700 INSTALLATION.          BLM.
000800 DATE-WRITTEN.          AUGUST 1979.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER.        LEVEL-66-ASCII.
001200 OBJECT-COMPUTER.       LEVEL-66-ASCII SEQUENCE IS EBCDIC.
001300 INPUT-OUTPUT SECTION.
001400 FILE-CONTROL.
001500          SELECT NEW-FILE ASSIGN D1
001600          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001700          SELECT TRAN-FILE ASSIGN I1
001800          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001900          SELECT OPTIONAL PREV-FILE ASSIGN I2
002000          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002100          SELECT SORT-WORK ASSIGN I1 I2 I3.
002200 DATA DIVISION.
002300 FILE SECTION.
002400 FD  PREV-FILE
002500          CODE-SET IS GBCD
002600          LABEL RECORDS ARE STANDARD
002700          DATA RECORDS ARE VF1X-RCD VP1X-RCD VU1X-RCD V61X-RCD.
002800 01  VF1X-RCD.
002900          05  KEY-VF1X.
003000          10  DIC-VF1X.
003100          15  REC-TYP-3529-VF1X          PIC X(2).
003200          15  FMT-NUM-3576-VF1X        PIC X(1).
003300          15  FMT-CD-3579-VF1X        PIC X(1).
003400          10  BLM-ADM-U-0003-VF1X.

```



003500		15	BLM-ADM-U-0003-ST-VF1X	PIC X(2).
003600		15	BLM-ADM-U-0003-DIST-VF1X	PIC X(2).
003700		15	FILLER	PIC XXXX.
003800		10	DATA-DATE-6618-VF1X.	
003900		15	DATA-DATE-6618-YY-VF1X	PIC X(2).
004000		15	DATA-DATE-6618-MM-VF1X	PIC X(2).
004100		15	DATA-DATE-6618-DD-VF1X	PIC X(2).
004200		10	ACTN-CD-7350-VF1X	PIC X(1).
004300		10	LIN-NUM-3578-VF1X	PIC X(4).
004400		05	ANML-GRZG-CD-3929-VF1X	PIC X(2).
004500		05	MON-FORG-RQMT-LBS-3551-VF1X	PIC X(4).
004600		05	ANML-HGT-CLS-CD-3548-VF1X	PIC X(1).
004700		05	FILLER	PIC X(36).
004800	01		VP1X-RCD.	
004900		05	KEY-VP1X.	
005000		10	DIC-VP1X.	
005100		15	REC-TYP-3529-VP1X	PIC X(2).
005200		15	FMT-NUM-3576-VP1X	PIC X(1).
005300		15	FMT-CD-3579-VP1X	PIC X(1).
005400		10	BLM-ADM-U-0003-VP1X.	
005500		15	BLM-ADM-U-0003-ST-VP1X	PIC X(2).
005600		15	BLM-ADM-U-0003-DIST-VP1X	PIC X(2).
005700		15	BLM-ADM-U-0003-RA-VP1X	PIC X(2).
005800		15	BLM-ADM-U-0003-PLU-VP1X	PIC X(2).
005900		10	DATA-DATE-6618-VP1X.	
006000		15	DATA-DATE-6618-YY-VP1X	PIC X(2).
006100		15	DATA-DATE-6618-MM-VP1X	PIC X(2).
006200		15	DATA-DATE-6618-DD-VP1X	PIC X(2).
006300		10	ACTN-CD-7350-VP1X	PIC X(1).
006400		10	LIN-NUM-3578-VP1X	PIC X(4).
006500		05	PLANT-CD-2646-VP1X	PIC X(7).
006600		05	PHNO-GP-VP1X	PIC X(32).
006700		05	PHNO-ADJ-GP-VP1X REDEFINES PHNO-GP-VP1X.	
006800		07	PHNO-ADJ-VP1X OCCURS 8 TIMES.	
006900		09	PHNO-ADJ-1-VP1X	PIC XX.
007000		09	PHNO-ADJ-2-VP1X	PIC XX.
007100		05	PHNO-ADJ-FCTR-3545-VP1X REDEFINES PHNO-GP-VP1X	
007200			OCCURS 8 TIMES	PIC 99V99.
007300		05	PLANT-TYP-3590-VP1X	PIC X.
007400		05	FILLER	PIC XXXX.
007500	01		VU1X-RCD.	
007600		05	KEY-VU1X.	
007700		10	DIC-VU1X.	
007800		15	REC-TYP-3529-VU1X	PIC X(2).
007900		15	FMT-NUM-3576-VU1X	PIC X(1).
008000		15	FMT-CD-3579-VU1X	PIC X(1).
008100		10	BLM-ADM-U-0003-VU1X.	
008200		15	BLM-ADM-U-0003-ST-VU1X	PIC X(2).
008300		15	BLM-ADM-U-0003-DIST-VU1X	PIC X(2).
008400		15	BLM-ADM-U-0003-RA-VU1X	PIC X(2).
008500		15	BLM-ADM-U-0003-PLU-VU1X	PIC X(2).
008600		10	DATA-DATE-6618-VU1X.	
008700		15	DATA-DATE-6618-YY-VU1X	PIC X(2).
008800		15	DATA-DATE-6618-MM-VU1X	PIC X(2).
008900		15	DATA-DATE-6618-DD-VU1X	PIC X(2).
009000		10	ACTN-CD-7350-VU1X	PIC X(1).
009100		10	DIET-USE-TYP-3917-VU1X	PIC X(1).

009200 10 LIN-NUM-3578-VU1X PIC X(4).  
009300 05 PLANT-CD-2646-VU1X PIC X(7).  
009400 05 AUF-3928-VU1X-RD PIC X(15).  
009500 05 AUF-3928-VU1X REDEFINES AUF-3928-VU1X-RD  
009600 OCCURS 5 TIMES PIC XXX.  
009700 05 ANML-GRZG-CD-3929-VU1X PIC X(2).  
009800 05 PUF-3511-VU1X PIC X(02) OCCURS 5 TIMES.  
009900 05 PLANT-TYP-3590-VU1X PIC X.  
010000 05 FILLER PIC X(7).  
010100 01 REC-V61X.  
010200 05 KEY-V61X.  
010300 10 DIC-V61X.  
010400 15 REC-TYP-3529-V61X PIC X(2).  
010500 15 FMT-NUM-3576-V61X PIC X(1).  
010600 15 FMT-CD-3579-V61X PIC X(1).  
010700 10 BLM-ADM-U-0003-V61X.  
010800 15 BLM-ADM-U-0003-ST-V61X PIC X(2).  
010900 15 BLM-ADM-U-0003-DIST-V61X PIC X(2).  
011000 15 BLM-ADM-U-0003-RA-V61X PIC X(2).  
011100 15 BLM-ADM-U-0003-PLU-V61X PIC X(2).  
011200 10 DATA-DATE-6618-V61X.  
011300 15 DATA-DATE-6618-YY-V61X PIC X(2).  
011400 15 DATA-DATE-6618-MM-V61X PIC X(2).  
011500 15 DATA-DATE-6618-DD-V61X PIC X(2).  
011600 10 ACTN-CD-7350-V61X PIC X(1).  
011700 10 LIN-NUM-3578-V61X PIC X(4).  
011800 05 PLANT-CD-2646-V61X PIC X(7).  
011900 05 PHNO-STG-CD-3712-V61X PIC X(1).  
012000 05 GRAMS-GRN-WGT-3941-V61X PIC X(4).  
012100 05 ADW-PCT-3546-V61X PIC X(3).  
012200 05 GRAMS-DRY-WGT-3942-V61X PIC X(4).  
012300 05 GRP-1-V61X.  
012400 07 BASAL-DIMS-3533-MIN-V61X PIC XXXX.  
012500 07 BASAL-DIMS-3533-MAX-V61X PIC XXXX.  
012600 07 CROWN-DIMS-3534-MIN-V61X PIC X(03).  
012700 07 CROWN-DIMS-3534-MAX-V61X PIC X(03).  
012800 07 HGT-AVG-3504-V61X PIC X(04).  
012900 07 AVG-LDR-LGT-7313-V61X PIC X(03).  
013000 05 PLANT-TYP-3590-V61X PIC X.  
013100 05 FILLER PIC X(02).  
013200 FD TRAN-FILE  
013300 CODE-SET IS GBCD  
013400 LABEL RECORDS ARE STANDARD  
013500 DATA RECORD IS TF-RCD.  
013600 01 TF-RCD.  
013700 03 REC-TYP-TF PIC XX.  
013800 03 REC-NUM-CD-TF PIC XX.  
013900 03 SDRP-TF.  
014000 05 ST-TF PIC XX.  
014100 05 DS-TF PIC XX.  
014200 05 RA-TF PIC XX.  
014300 05 PU-TF PIC XX.  
014400 03 DATE-TF PIC X(6).  
014500 03 ACTN-TF PIC X.  
014600 03 GRP-1-TF.  
014700 05 DIET-TYP-VU-TF PIC X.  
014800 05 LINE-VU-TF PIC XXXX.

```

014900      05  PLANT-CD-VU-TF   PIC X(7).
015000      05  DATA-VU-TF.
015100      07  AUF-GRP-VU-TF     PIC X(15).
015200      07  ANML-GZ-CD-VU-TF PIC XX.
015300      07  PUF-GRP-VU-TF     PIC X(10).
015400      07  FILLER             PIC X(8).
015500      03  GRP-2-TF REDEFINES GRP-1-TF.
015600      05  LINE-TF          PIC XXXX.
015700      05  DATA-V6FP-TF.
015800      07  PLANT-CD-TF.
015900      09  ANML-GZ-CD-VF-TF  PIC XX.
016000      09  FILLER             PIC X(5).
016100      07  PHNO-STG-TF      PIC X.
016200      07  FILLER             PIC X(35).
016300 FD   NEW-FILE
016400      CODE-SET IS GBCD
016500      LABEL RECORDS ARE STANDARD
016600      DATA RECORDS ARE VF1Z-RCD VP1Z-RCD VU1Z-RCD V61Z-RCD.
016700 01   VF1Z-RCD.
016800      05  KEY-VF1Z.
016900      10  DIC-VF1Z.
017000      15  REC-TYP-3529-VF1Z          PIC X(2).
017100      15  FMT-NUM-3576-VF1Z          PIC X(1).
017200      15  FMT-CD-3579-VF1Z          PIC X(1).
017300      10  BLM-ADM-U-0003-VF1Z.
017400      15  BLM-ADM-U-0003-ST-VF1Z      PIC X(2).
017500      15  BLM-ADM-U-0003-DIST-VF1Z    PIC X(2).
017600      15  FILLER                       PIC XXXX.
017700      10  DATA-DATE-6618-VF1Z.
017800      15  DATA-DATE-6618-YY-VF1Z     PIC X(2).
017900      15  DATA-DATE-6618-MM-VF1Z     PIC X(2).
018000      15  DATA-DATE-6618-DD-VF1Z     PIC X(2).
018100      10  ACTN-CD-7350-VF1Z          PIC X(1).
018200      10  LIN-NUM-3578-VF1Z          PIC X(4).
018300      05  ANML-GRZG-CD-3929-VF1Z      PIC X(2).
018400      05  MON-FORG-RQMT-LBS-3551-VF1Z PIC X(4).
018500      05  ANML-HGT-CLS-CD-3548-VF1Z   PIC X(1).
018600      05  OPEN-VF1Z                   PIC X(36).
018700 01   VP1Z-RCD.
018800      05  KEY-VP1Z.
018900      10  DIC-VP1Z.
019000      15  REC-TYP-3529-VP1Z          PIC X(2).
019100      15  FMT-NUM-3576-VP1Z          PIC X(1).
019200      15  FMT-CD-3579-VP1Z          PIC X(1).
019300      10  BLM-ADM-U-0003-VP1Z.
019400      15  BLM-ADM-U-0003-ST-VP1Z      PIC X(2).
019500      15  BLM-ADM-U-0003-DIST-VP1Z     PIC X(2).
019600      15  BLM-ADM-U-0003-RA-VP1Z     PIC X(2).
019700      15  BLM-ADM-U-0003-PLU-VP1Z    PIC X(2).
019800      10  DATA-DATE-6618-VP1Z.
019900      15  DATA-DATE-6618-YY-VP1Z     PIC X(2).
020000      15  DATA-DATE-6618-MM-VP1Z     PIC X(2).
020100      15  DATA-DATE-6618-DD-VP1Z     PIC X(2).
020200      10  ACTN-CD-7350-VP1Z          PIC X(1).
020300      10  LIN-NUM-3578-VP1Z          PIC X(4).
020400      05  PLANT-CD-2646-VP1Z          PIC X(7).
020500      05  PHNO-GP-VP1Z                PIC X(32).

```

020600 05 PHNO-ADJ-GP-VP1Z REDEFINES PHNO-GP-VP1Z.  
020700 07 PHNO-ADJ-VP1Z OCCURS 8 TIMES.  
020800 09 PHNO-ADJ-1-VP1Z PIC XX.  
020900 09 PHNO-ADJ-2-VP1Z PIC XX.  
021000 05 PHNO-ADJ-FCTR-3545-VP1Z REDEFINES PHNO-GP-VP1Z  
021100 OCCURS 8 TIMES PIC 99V99.  
021200 05 PLANT-TYP-3590-VP1Z PIC X.  
021300 05 OPEN-VP1Z PIC XXXX.  
021400 01 VU1Z-RCD.  
021500 05 KEY-VU1Z.  
021600 10 DIC-VU1Z.  
021700 15 REC-TYP-3529-VU1Z PIC X(2).  
021800 15 FMT-NUM-3576-VU1Z PIC X(1).  
021900 15 FMT-CD-3579-VU1Z PIC X(1).  
022000 10 BLM-ADM-U-0003-VU1Z.  
022100 15 BLM-ADM-U-0003-ST-VU1Z PIC X(2).  
022200 15 BLM-ADM-U-0003-DIST-VU1Z PIC X(2).  
022300 15 BLM-ADM-U-0003-RA-VU1Z PIC X(2).  
022400 15 BLM-ADM-U-0003-PLU-VU1Z PIC X(2).  
022500 10 DATA-DATE-6618-VU1Z.  
022600 15 DATA-DATE-6618-YY-VU1Z PIC X(2).  
022700 15 DATA-DATE-6618-MM-VU1Z PIC X(2).  
022800 15 DATA-DATE-6618-DD-VU1Z PIC X(2).  
022900 10 ACTN-CD-7350-VU1Z PIC X(1).  
023000 10 DIET-USE-TYP-3917-VU1Z PIC X(1).  
023100 10 LIN-NUM-3578-VU1Z PIC X(4).  
023200 05 PLANT-CD-2646-VU1Z PIC X(7).  
023300 05 AUF-3928-VU1Z-RD PIC X(15).  
023400 05 AUF-3928-VU1Z REDEFINES AUF-3928-VU1Z-RD  
023500 OCCURS 5 TIMES PIC XXX.  
023600 05 ANML-GRZG-CD-3929-VU1Z PIC X(2).  
023700 05 PUF-3511-VU1Z PIC X(02) OCCURS 5 TIMES.  
023800 05 PLANT-TYP-3590-VU1Z PIC X.  
023900 05 OPEN-VU1Z PIC X(7).  
024000 01 REC-V61Z.  
024100 05 KEY-V61Z.  
024200 10 DIC-V61Z.  
024300 15 REC-TYP-3529-V61Z PIC X(2).  
024400 15 FMT-NUM-3576-V61Z PIC X(1).  
024500 15 FMT-CD-3579-V61Z PIC X(1).  
024600 10 BLM-ADM-U-0003-V61Z.  
024700 15 BLM-ADM-U-0003-ST-V61Z PIC X(2).  
024800 15 BLM-ADM-U-0003-DIST-V61Z PIC X(2).  
024900 15 BLM-ADM-U-0003-RA-V61Z PIC X(2).  
025000 15 BLM-ADM-U-0003-PLU-V61Z PIC X(2).  
025100 10 DATA-DATE-6618-V61Z.  
025200 15 DATA-DATE-6618-YY-V61Z PIC X(2).  
025300 15 DATA-DATE-6618-MM-V61Z PIC X(2).  
025400 15 DATA-DATE-6618-DD-V61Z PIC X(2).  
025500 10 ACTN-CD-7350-V61Z PIC X(1).  
025600 10 LIN-NUM-3578-V61Z PIC X(4).  
025700 05 PLANT-CD-2646-V61Z PIC X(7).  
025800 05 PHNO-STG-CD-3712-V61Z PIC X(1).  
025900 05 GRAMS-GRN-WGT-3941-V61Z PIC X(4).  
026000 05 ADW-PCT-3546-V61Z PIC X(3).  
026100 05 GRAMS-DRY-WGT-3942-V61Z PIC X(4).  
026200 05 GRP-1-V61Z.

026300 07 BASAL-DIMS-3533-MIN-V61Z PIC X(04).  
026400 07 BASAL-DIMS-3533-MAX-V61Z PIC X(04).  
026500 07 CROWN-DIMS-3534-MIN-V61Z PIC X(03).  
026600 07 CROWN-DIMS-3534-MAX-V61Z PIC X(03).  
026700 07 HGT-AVG-3504-V61Z PIC X(04).  
026800 07 AVG-LDR-LGT-7313-V61Z PIC X(03).  
026900 05 PLANT-TYP-3590-V61Z PIC X.  
027000 05 REC-CNT-V61Z PIC 99.  
027100\*  
027200 SD SORT-WORK  
027300 DATA RECORD IS SORT-RCD.  
027400 01 SORT-RCD.  
027500 03 SR-KEY.  
027600 05 REC-TYP-SR PIC XX.  
027700 05 REC-NUM-CD-SR PIC XX.  
027800 05 SDRP-SR.  
027900 07 ST-SR PIC XX.  
028000 07 DS-SR PIC XX.  
028100 07 RA-SR PIC XX.  
028200 07 PU-SR PIC XX.  
028300 05 LINE-SR PIC XXXX.  
028400 05 PLANT-CD-SR PIC X(7).  
028500 05 PHNO-STG-SR PIC X.  
028600 05 ANML-GZ-CD-SR PIC XX.  
028700 03 REC-HLD-SR.  
028800 05 FILLER PIC X(23).  
028900 05 DATA-V6FP-SR.  
029000 07 FILLER PIC X.  
029100 07 DATA-VU-SR PIC X(42).  
029200 WORKING-STORAGE SECTION.  
029300 77 END-OF-TRAN PIC X(01) VALUE " ".  
029400 77 CTL-SAVE PIC X(12) VALUE SPACES.  
029500 77 END-OF-PREV PIC X(01) VALUE " ".  
029600 77 LAST-LIN-NUM PIC 9(04) VALUE 0000.  
029700 77 DATE-SW PIC X(01).  
029800 77 DATE-MV-SW PIC X(01).  
029900 77 TODAYS-DATE PIC X(06).  
030000 01 PARAMETER.  
030100 03 RELINE-CHK PIC XXX.  
030200 03 FILLER PIC X(77).  
030300 01 CTL.  
030400 03 RECD-ID-C PIC XXXX.  
030500 03 SDRP-C PIC X(8).  
030600 01 CTRS.  
030700 02 VF1-CTR PIC 99999 VALUE 0.  
030800 02 VP1-CTR PIC 99999 VALUE 0.  
030900 02 VU1-CTR PIC 99999 VALUE 0.  
031000 02 V61-CTR PIC 99999 VALUE 0.  
031100 01 DATE-WORK.  
031200 02 DW-YY PIC X(02).  
031300 02 DW-MM PIC X(02).  
031400 02 DW-DD PIC X(02).  
031500 01 MOVED-DATE.  
031600 02 MD-DD PIC XX.  
031700 02 MD-YY PIC XX.  
031800 02 MD-MM PIC XX.  
031900 01 PREV-CTL.

032000	03	RECD-ID-PC	PIC XXXX.	
032100	03	SDRP-PC	PIC X(8).	
032200	03	LINE-PC	PIC XXXX.	
032300	01	TRAN-CTL	PIC X(16)	VALUE SPACE.
032400	01	VF1K-RCD.		
032500	05	KEY-VF1K.		
032600	10	DIC-VF1K.		
032700	15	REC-TYP-3529-VF1K		PIC X(2).
032800	15	FMT-NUM-3576-VF1K		PIC X(1).
032900	15	FMT-CD-3579-VF1K		PIC X(1).
033000	10	BLM-ADM-U-0003-VF1K.		
033100	15	BLM-ADM-U-0003-ST-VF1K		PIC X(2).
033200	15	BLM-ADM-U-0003-DIST-VF1K		PIC X(2).
033300	15	FILLER		PIC XXXX.
033400	10	DATA-DATE-6618-VF1K.		
033500	15	DATA-DATE-6618-YY-VF1K		PIC X(2).
033600	15	DATA-DATE-6618-MM-VF1K		PIC X(2).
033700	15	DATA-DATE-6618-DD-VF1K		PIC X(2).
033800	10	ACTN-CD-7350-VF1K		PIC X(1).
033900	10	LIN-NUM-3578-VF1K		PIC X(4).
034000	05	ANML-GRZG-CD-3929-VF1K		PIC X(2).
034100	05	MON-FORG-RQMT-LBS-3551-VF1K		PIC X(4).
034200	05	ANML-HGT-CLS-CD-3548-VF1K		PIC X(1).
034300	05	FILLER	PIC X(36).	
034400	01	VP1K-RCD.		
034500	05	KEY-VP1K.		
034600	10	DIC-VP1K.		
034700	15	REC-TYP-3529-VP1K		PIC X(2).
034800	15	FMT-NUM-3576-VP1K		PIC X(1).
034900	15	FMT-CD-3579-VP1K		PIC X(1).
035000	10	BLM-ADM-U-0003-VP1K.		
035100	15	BLM-ADM-U-0003-ST-VP1K		PIC X(2).
035200	15	BLM-ADM-U-0003-DIST-VP1K		PIC X(2).
035300	15	BLM-ADM-U-0003-RA-VP1K		PIC X(2).
035400	15	BLM-ADM-U-0003-PLU-VP1K		PIC X(2).
035500	10	DATA-DATE-6618-VP1K.		
035600	15	DATA-DATE-6618-YY-VP1K		PIC X(2).
035700	15	DATA-DATE-6618-MM-VP1K		PIC X(2).
035800	15	DATA-DATE-6618-DD-VP1K		PIC X(2).
035900	10	ACTN-CD-7350-VP1K		PIC X(1).
036000	10	LIN-NUM-3578-VP1K		PIC X(4).
036100	05	PLANT-CD-2646-VP1K		PIC X(7).
036200	05	PHNO-GP-VP1K	PIC X(32).	
036300	05	PHNO-ADJ-GP-VP1K	REDEFINES PHNO-GP-VP1K.	
036400	07	PHNO-ADJ-VP1K	OCCURS 8 TIMES.	
036500	09	PHNO-ADJ-1-VP1K	PIC XX.	
036600	09	PHNO-ADJ-2-VP1K	PIC XX.	
036700	05	PHNO-ADJ-FCTR-3545-VP1K	REDEFINES PHNO-GP-VP1K	
036800		OCCURS 8 TIMES	PIC 99V99.	
036900	05	PLANT-TYP-3590-VP1K	PIC X.	
037000	05	FILLER	PIC XXXX.	
037100	01	VU1K-RCD.		
037200	05	KEY-VU1K.		
037300	10	DIC-VU1K.		
037400	15	REC-TYP-3529-VU1K		PIC X(2).
037500	15	FMT-NUM-3576-VU1K		PIC X(1).
037600	15	FMT-CD-3579-VU1K		PIC X(1).

037700 10 BLM-ADM-U-0003-VU1K.  
037800 15 BLM-ADM-U-0003-ST-VU1K PIC X(2).  
037900 15 BLM-ADM-U-0003-DIST-VU1K PIC X(2).  
038000 15 BLM-ADM-U-0003-RA-VU1K PIC X(2).  
038100 15 BLM-ADM-U-0003-PLU-VU1K PIC X(2).  
038200 10 DATA-DATE-6618-VU1K.  
038300 15 DATA-DATE-6618-YY-VU1K PIC X(2).  
038400 15 DATA-DATE-6618-MM-VU1K PIC X(2).  
038500 15 DATA-DATE-6618-DD-VU1K PIC X(2).  
038600 10 ACTN-CD-7350-VU1K PIC X(1).  
038700 10 DIET-USE-TYP-3917-VU1K PIC X(1).  
038800 10 LIN-NUM-3578-VU1K PIC X(4).  
038900 05 PLANT-CD-2646-VU1K PIC X(7).  
039000 05 AUF-3928-VU1K-RD PIC X(15).  
039100 05 AUF-3928-VU1K REDEFINES AUF-3928-VU1K-RD  
039200 OCCURS 5 TIMES PIC XXX.  
039300 05 ANML-GRZG-CD-3929-VU1K PIC X(2).  
039400 05 PUF-3511-VU1K PIC X(02) OCCURS 5 TIMES.  
039500 05 PLANT-TYP-3590-VU1K PIC X.  
039600 05 FILLER PIC X(8).  
039700 01 V61K-RCD.  
039800 05 KEY-V61K.  
039900 10 DIC-V61K.  
040000 15 REC-TYP-3529-V61K PIC X(2).  
040100 15 FMT-NUM-3576-V61K PIC X(1).  
040200 15 FMT-CD-3579-V61K PIC X(1).  
040300 10 BLM-ADM-U-0003-V61K.  
040400 15 BLM-ADM-U-0003-ST-V61K PIC X(2).  
040500 15 BLM-ADM-U-0003-DIST-V61K PIC X(2).  
040600 15 BLM-ADM-U-0003-RA-V61K PIC X(2).  
040700 15 BLM-ADM-U-0003-PLU-V61K PIC X(2).  
040800 10 DATA-DATE-6618-V61K.  
040900 15 DATA-DATE-6618-YY-V61K PIC X(2).  
041000 15 DATA-DATE-MM-6618-V61K PIC XX.  
041100 15 DATA-DATE-6618-DD-V61K PIC X(2).  
041200 10 ACTN-CD-7350-V61K PIC X(1).  
041300 10 LIN-NUM-3578-V61K PIC X(4).  
041400 05 PLANT-CD-2646-V61K PIC X(7).  
041500 05 PHNO-STG-CD-3712-V61K PIC X(1).  
041600 05 GRAMS-GRN-WGT-3941-V61K PIC X(4).  
041700 05 ADW-PCT-3546-V61K PIC X(3).  
041800 05 GRAMS-DRY-WGT-3942-V61K PIC X(4).  
041900 05 GRP-1-V61K.  
042000 07 BASAL-DIMS-3533-MIN-V61K PIC XXXX.  
042100 07 BASAL-DIMS-3533-MAX-V61K PIC XXXX.  
042200 07 CROWN-DIMS-3534-MIN-V61K PIC XXX.  
042300 07 CROWN-DIMS-3534-MAX-V61K PIC XXX.  
042400 07 HGT-AVG-3504-V61K PIC XXXX.  
042500 07 AVG-LDR-LGT-7313-V61K PIC XXX.  
042600 05 PLANT-TYP-3590-V61K PIC X.  
042700 05 REC-CNT-V61K PIC 99.  
042800 PROCEDURE DIVISION.  
042900 000-DRIVER SECTION.  
043000 010-MAINLINE.  
043100 PERFORM 100-INITIALIZE.  
043200 PERFORM 200-SORT.  
043300 PERFORM 990-TERMINATE.

```

043400     STOP RUN.
043500*
043600 100-INITIALIZE SECTION.
043700 110-OPENS.
043800     OPEN INPUT PREV-FILE TRAN-FILE
043900         OUTPUT NEW-FILE.
044000     MOVE ALL "9" TO PREV-CTL.
044100     ACCEPT TODAYS-DATE FROM DATE.
044200     ACCEPT PARAMETER.
044300*
044400 200-SORT SECTION.
044500 210-SORT-VERB.
044600     SORT SORT-WORK
044700         ASCENDING KEY SR-KEY
044800         INPUT PROCEDURE 300-READ-FORMAT
044900         OUTPUT PROCEDURE 400-MATCH-UPDATE.
045000*
045100 300-READ-FORMAT SECTION.
045200 310-READ.
045300     READ TRAN-FILE
045400         AT END GO TO 300-EXIT.
045500     IF REC-TYP-TF NOT = "VP" AND "VU" AND "VF" AND "V6"
045600         DISPLAY "BAD-RCD= " TF-RCD
045700         GO TO 310-READ.
045800     IF ACTN-TF = SPACE
045900         MOVE "A" TO ACTN-TF.
046000     IF (REC-TYP-TF = "VU") AND
046100         ((LINE-VU-TF NOT NUMERIC) OR
046200         (LINE-VU-TF = "0000"))
046300         OR (RELINE-CHK = "YES"))
046400         MOVE ALL "9" TO LINE-VU-TF.
046500     IF (REC-TYP-TF NOT = "VU") AND
046600         ((LINE-TF NOT NUMERIC) OR
046700         (LINE-TF = "0000"))
046800         OR (RELINE-CHK = "YES"))
046900         MOVE ALL "9" TO LINE-TF.
047000     MOVE TF-RCD TO REC-HLD-SR.
047100     MOVE SPACE TO SR-KEY.
047200     MOVE REC-TYP-TF TO REC-TYP-SR.
047300     MOVE REC-NUM-CD-TF TO REC-NUM-CD-SR.
047400     MOVE SDRP-TF TO SDRP-SR.
047500     IF REC-TYP-TF = "VU"
047600         MOVE LINE-VU-TF TO LINE-SR
047700         MOVE PLANT-CD-VU-TF TO PLANT-CD-SR
047800         MOVE ANML-GZ-CD-VU-TF TO ANML-GZ-CD-SR
047900         ELSE
048000         MOVE LINE-TF TO LINE-SR.
048100     IF REC-TYP-TF = "VP" OR "V6"
048200         MOVE PLANT-CD-TF TO PLANT-CD-SR
048300         MOVE PHNO-STG-TF TO PHNO-STG-SR.
048400     IF REC-TYP-TF = "VF"
048500         MOVE ANML-GZ-CD-VF-TF TO ANML-GZ-CD-SR.
048600     RELEASE SORT-RCD.
048700     GO TO 310-READ.
048800 300-EXIT.
048900     EXIT.
049000*

```



```

049100 400-MATCH-UPDATE SECTION.
049200 410-GET-FIRST-RCDS.
049300     PERFORM 430-RETURN-SORT.
049400     PERFORM 440-READ-PREV.
049500 420-COMPARE.
049600     IF TRAN-CTL IS EQUAL TO ALL "9" AND
049700         PREV-CTL IS EQUAL TO ALL "9"
049800         GO TO 400-EXIT.
049900     IF TRAN-CTL IS GREATER THAN PREV-CTL
050000         PERFORM 500-NO-TRAN
050100         GO TO 420-COMPARE.
050200     IF PREV-CTL IS GREATER THAN TRAN-CTL
050300         PERFORM 600-NO-PREV
050400         GO TO 420-COMPARE.
050500     IF TRAN-CTL IS EQUAL TO PREV-CTL
050600         PERFORM 700-MATCH.
050700     GO TO 420-COMPARE.
050800 430-RETURN-SORT.
050900     RETURN SORT-WORK AT END
051000         MOVE "X" TO END-OF-TRAN.
051100     IF REC-TYP-SR IS EQUAL TO "VF"
051200         MOVE REC-HLD-SR TO VF1K-RCD.
051300     IF REC-TYP-SR IS EQUAL TO "VP"
051400         MOVE REC-HLD-SR TO VP1K-RCD.
051500     IF REC-TYP-SR IS EQUAL TO "VU"
051600         MOVE REC-HLD-SR TO VU1K-RCD.
051700     IF REC-TYP-SR IS EQUAL TO "V6"
051800         MOVE REC-HLD-SR TO V61K-RCD.
051900     MOVE SR-KEY TO TRAN-CTL.
052000     IF END-OF-TRAN IS EQUAL TO "X"
052100         MOVE ALL "9" TO TRAN-CTL.
052200 440-READ-PREV.
052300     READ PREV-FILE AT END
052400         MOVE "X" TO END-OF-PREV.
052500     MOVE DIC-VF1X TO RECD-ID-PC.
052600     MOVE BLM-ADM-U-0003-VF1X TO SDRP-PC.
052700     MOVE LIN-NUM-3578-VF1X TO LINE-PC.
052800     IF REC-TYP-3529-VP1X = "VU"
052900         MOVE LIN-NUM-3578-VU1X TO LINE-PC.
053000     IF END-OF-PREV = "X"
053100         MOVE ALL "9" TO PREV-CTL.
053200 500-NO-TRAN.
053300     MOVE VF1X-RCD     TO VF1Z-RCD.
053400     PERFORM 800-ADD-TO-CTRS.
053500     PERFORM 920-WRITE-Z-RCD.
053600     IF END-OF-PREV NOT = "X"
053700     PERFORM 440-READ-PREV.
053800 600-NO-PREV.
053900     MOVE REC-HLD-SR     TO VF1Z-RCD.
054000     PERFORM 800-ADD-TO-CTRS.
054100     IF REC-TYP-3529-VF1Z = "VF"
054200         PERFORM 810-BUILD-VF-LIN-NUM
054300         PERFORM 830-CHECK-VF-LIN-NUM THRU 830-OUT.
054400     IF REC-TYP-3529-VF1Z = "VP"
054500         PERFORM 820-BUILD-VP-LIN-NUM
054600         PERFORM 840-CHECK-VP-LIN-NUM THRU 840-OUT.
054700     IF REC-TYP-3529-VF1Z = "VU"

```

```

054800          PERFORM 815-BUILD-VU-LIN-NUM
054900          PERFORM 825-CHECK-VU-LIN-NUM THRU 825-OUT.
055000          IF REC-TYP-3529-VF1Z = "V6"
055100              PERFORM 835-BUILD-V6-LIN-NUM
055200              PERFORM 845-CHECK-V6-LIN-NUM THRU 845-OUT.
055300          PERFORM 890-EDIT-DATE.
055400          PERFORM 920-WRITE-Z-RCD.
055500          IF END-OF-TRAN NOT = "X"
055600              PERFORM 430-RETURN-SORT.
055700          700-MATCH.
055800              MOVE VF1X-RCD          TO VF1Z-RCD.
055900              PERFORM 890-EDIT-DATE.
056000          IF (DATA-V6FP-SR NOT = SPACES)
056100              AND (REC-TYP-3529-VF1Z = "VF")
056200                  PERFORM 850-MOVE-VF-FIELDS
056300                  PERFORM 810-BUILD-VF-LIN-NUM
056400                  PERFORM 800-ADD-TO-CTRS
056500                  PERFORM 920-WRITE-Z-RCD.
056600          IF (DATA-V6FP-SR NOT = SPACES)
056700              AND (REC-TYP-3529-VF1Z = "VP")
056800                  PERFORM 860-MOVE-VP1-FIELDS
056900                  PERFORM 820-BUILD-VP-LIN-NUM
057000                  PERFORM 800-ADD-TO-CTRS
057100                  PERFORM 920-WRITE-Z-RCD.
057200          IF (DATA-VU-SR NOT = SPACES)
057300              AND (REC-TYP-3529-VF1Z = "VU" )
057400                  PERFORM 870-MOVE-VU1-FIELDS
057500                  PERFORM 815-BUILD-VU-LIN-NUM
057600                  PERFORM 800-ADD-TO-CTRS
057700                  PERFORM 920-WRITE-Z-RCD.
057800          IF (DATA-V6FP-SR NOT = SPACES)
057900              AND (REC-TYP-3529-VF1Z = "V6")
058000                  PERFORM 880-MOVE-V61-FIELDS
058100                  PERFORM 835-BUILD-V6-LIN-NUM
058200                  PERFORM 800-ADD-TO-CTRS
058300                  PERFORM 920-WRITE-Z-RCD.
058400          IF END-OF-TRAN NOT = "X"
058500              PERFORM 430-RETURN-SORT.
058600          IF END-OF-PREV NOT = "X"
058700              PERFORM 440-READ-PREV.
058800*
058900          800-ADD-TO-CTRS.
059000          IF REC-TYP-3529-VF1Z = "VF"
059100              ADD 1 TO VF1-CTR
059200              PERFORM 810-BUILD-VF-LIN-NUM.
059300          IF REC-TYP-3529-VF1Z = "VP"
059400              PERFORM 820-BUILD-VP-LIN-NUM
059500              ADD 1 TO VP1-CTR.
059600          IF REC-TYP-3529-VF1Z = "VU"
059700              PERFORM 815-BUILD-VU-LIN-NUM
059800              ADD 1 TO VU1-CTR.
059900          IF REC-TYP-3529-VF1Z = "V6"
060000              PERFORM 835-BUILD-V6-LIN-NUM
060100              ADD 1 TO V61-CTR.
060200*
060300          810-BUILD-VF-LIN-NUM.
060400          IF (LIN-NUM-3578-VF1Z NOT NUMERIC) OR

```

```

060500         (LIN-NUM-3578-VF1Z = "0000")
060600             MOVE "9999" TO LIN-NUM-3578-VF1Z.
060700 815-BUILD-VU-LIN-NUM.
060800         IF (LIN-NUM-3578-VU1Z NOT NUMERIC) OR
060900             (LIN-NUM-3578-VU1Z = "0000")
061000             MOVE "9999" TO LIN-NUM-3578-VU1Z.
061100 820-BUILD-VP-LIN-NUM.
061200         IF (LIN-NUM-3578-VP1Z NOT NUMERIC) OR
061300             (LIN-NUM-3578-VP1Z = "0000")
061400             MOVE "9999" TO LIN-NUM-3578-VP1Z.
061500 825-CHECK-VU-LIN-NUM.
061600         IF LIN-NUM-3578-VU1Z NOT = "9999"
061700             GO TO 825-OUT.
061800         MOVE DIC-VF1Z TO RECD-ID-C.
061900         MOVE BLM-ADM-U-0003-VF1Z TO SDRP-C.
062000         IF CTL NOT = CTL-SAVE
062100             MOVE 0001 TO LAST-LIN-NUM
062200             MOVE "0001" TO LIN-NUM-3578-VU1Z
062300         ELSE ADD 1 TO LAST-LIN-NUM
062400             MOVE LAST-LIN-NUM TO LIN-NUM-3578-VU1Z.
062500         MOVE CTL TO CTL-SAVE.
062600 825-OUT.
062700         EXIT.
062800 830-CHECK-VF-LIN-NUM.
062900         IF LIN-NUM-3578-VF1Z NOT = ALL "9"
063000             GO TO 830-OUT.
063100         MOVE DIC-VF1Z TO RECD-ID-C.
063200         MOVE BLM-ADM-U-0003-VF1Z TO SDRP-C.
063300         IF CTL NOT = CTL-SAVE
063400             MOVE 0001 TO LAST-LIN-NUM
063500             MOVE "0001" TO LIN-NUM-3578-VF1Z
063600         ELSE
063700             ADD 1 TO LAST-LIN-NUM
063800             MOVE LAST-LIN-NUM TO LIN-NUM-3578-VF1Z.
063900         MOVE CTL TO CTL-SAVE.
064000 830-OUT.
064100         EXIT.
064200 835-BUILD-V6-LIN-NUM.
064300         IF (LIN-NUM-3578-V61Z NOT NUMERIC) OR
064400             (LIN-NUM-3578-V61Z = "0000")
064500             MOVE "9999" TO LIN-NUM-3578-V61Z.
064600 840-CHECK-VP-LIN-NUM.
064700         IF LIN-NUM-3578-VP1Z NOT = ALL "9"
064800             GO TO 840-OUT.
064900         MOVE DIC-VP1Z TO RECD-ID-C.
065000         MOVE BLM-ADM-U-0003-VP1Z TO SDRP-C.
065100         IF CTL NOT = CTL-SAVE
065200             MOVE 0001 TO LAST-LIN-NUM
065300             MOVE "0001" TO LIN-NUM-3578-VP1Z
065400         ELSE
065500             ADD 1 TO LAST-LIN-NUM
065600             MOVE LAST-LIN-NUM TO LIN-NUM-3578-VP1Z.
065700         MOVE CTL TO CTL-SAVE.
065800 840-OUT.
065900         EXIT.
066000 845-CHECK-V6-LIN-NUM.
066100         IF LIN-NUM-3578-V61Z NOT = "9999"

```

```

066200          GO TO 845-OUT.
066300      MOVE DIC-VF1Z TO RECD-ID-C.
066400      MOVE BLM-ADM-U-0003-VF1Z TO SDRP-C.
066500      IF CTL NOT = TO CTL-SAVE
066600          MOVE 0001 TO LAST-LIN-NUM
066700          MOVE "0001" TO LIN-NUM-3578-V61Z
066800      ELSE ADD 1 TO LAST-LIN-NUM
066900          MOVE LAST-LIN-NUM TO LIN-NUM-3578-V61Z.
067000      MOVE CTL TO CTL-SAVE.
067100 845-OUT.
067200      EXIT.
067300*
067400 850-MOVE-VF-FIELDS.
067500      IF ANML-GRZG-CD-3929-VF1K          = SPACES
067600          NEXT SENTENCE
067700      ELSE
067800          IF ANML-GRZG-CD-3929-VF1K          = "***"
067900              MOVE SPACES TO ANML-GRZG-CD-3929-VF1Z
068000          ELSE
068100              MOVE ANML-GRZG-CD-3929-VF1K TO ANML-GRZG-CD-3929-VF1Z.
068200      IF MON-FORG-RQMT-LBS-3551-VF1K = SPACES
068300          NEXT SENTENCE
068400      ELSE
068500          IF MON-FORG-RQMT-LBS-3551-VF1K = "***"
068600              MOVE SPACES TO MON-FORG-RQMT-LBS-3551-VF1Z
068700              MOVE MON-FORG-RQMT-LBS-3551-VF1K TO
068800                  MON-FORG-RQMT-LBS-3551-VF1Z.
068900      IF ANML-HGT-CLS-CD-3548-VF1K = SPACES
069000          NEXT SENTENCE
069100      ELSE
069200          IF ANML-HGT-CLS-CD-3548-VF1K = "*"
069300              MOVE SPACES TO ANML-HGT-CLS-CD-3548-VF1Z
069400          ELSE
069500              MOVE ANML-HGT-CLS-CD-3548-VF1K TO ANML-HGT-CLS-CD-3548-VF1Z.
069600 870-MOVE-VU1-FIELDS.
069700      IF PLANT-CD-2646-VU1K = SPACES
069800          NEXT SENTENCE
069900      ELSE
070000          IF PLANT-CD-2646-VU1K = "*****"
070100              MOVE SPACES TO PLANT-CD-2646-VU1Z
070200          ELSE
070300              MOVE PLANT-CD-2646-VU1K TO PLANT-CD-2646-VU1Z.
070400      IF AUF-3928-VU1K (1) = SPACES
070500          NEXT SENTENCE
070600      ELSE
070700          IF AUF-3928-VU1K (1) = "***"
070800              MOVE SPACES TO AUF-3928-VU1Z (1)
070900          ELSE
071000              MOVE AUF-3928-VU1K (1) TO AUF-3928-VU1Z (1).
071100      IF AUF-3928-VU1K (2) = SPACES
071200          NEXT SENTENCE
071300      ELSE
071400          IF AUF-3928-VU1K (2) = "***"
071500              MOVE SPACES TO AUF-3928-VU1Z (2)
071600          ELSE
071700              MOVE AUF-3928-VU1K (2) TO AUF-3928-VU1Z (2).
071800      IF AUF-3928-VU1K (3) = SPACES

```

```

071900         NEXT SENTENCE
072000         ELSE
072100         IF AUF-3928-VU1K (3) = "***"
072200             MOVE SPACES TO AUF-3928-VU1Z (3)
072300             ELSE
072400             MOVE AUF-3928-VU1K (3) TO AUF-3928-VU1Z (3).
072500 IF AUF-3928-VU1K (4) = SPACES
072600     NEXT SENTENCE
072700     ELSE
072800     IF AUF-3928-VU1K (4) = "***"
072900         MOVE SPACES TO AUF-3928-VU1Z (4)
073000         ELSE
073100         MOVE AUF-3928-VU1K (4) TO AUF-3928-VU1Z (4).
073200 IF AUF-3928-VU1K (5) = SPACES
073300     NEXT SENTENCE
073400     ELSE
073500     IF AUF-3928-VU1K (5) = "***"
073600         MOVE SPACES TO AUF-3928-VU1Z (5)
073700         ELSE
073800         MOVE AUF-3928-VU1K (5) TO AUF-3928-VU1Z (5).
073900 IF ANML-GRZG-CD-3929-VU1K = SPACES
074000     NEXT SENTENCE
074100     ELSE
074200     IF ANML-GRZG-CD-3929-VU1K = "***"
074300         MOVE SPACES TO ANML-GRZG-CD-3929-VU1Z
074400         ELSE
074500         MOVE ANML-GRZG-CD-3929-VU1K TO ANML-GRZG-CD-3929-VU1Z.
074600 IF PUF-3511-VU1K (1) = SPACES
074700     NEXT SENTENCE
074800     ELSE
074900     IF PUF-3511-VU1K (1) = "***"
075000         MOVE SPACES TO PUF-3511-VU1Z (1)
075100         ELSE
075200         MOVE PUF-3511-VU1K (1) TO PUF-3511-VU1Z (1).
075300 IF PUF-3511-VU1K (2) = SPACES
075400     NEXT SENTENCE
075500     ELSE
075600     IF PUF-3511-VU1K (2) = "***"
075700         MOVE SPACES TO PUF-3511-VU1Z (2)
075800         ELSE
075900         MOVE PUF-3511-VU1K (2) TO PUF-3511-VU1Z (2).
076000 IF PUF-3511-VU1K (3) = SPACES
076100     NEXT SENTENCE
076200     ELSE
076300     IF PUF-3511-VU1K (3) = "***"
076400         MOVE SPACES TO PUF-3511-VU1Z (3)
076500         ELSE
076600         MOVE PUF-3511-VU1K (3) TO PUF-3511-VU1Z (3).
076700 IF PUF-3511-VU1K (4) = SPACES
076800     NEXT SENTENCE
076900     ELSE
077000     IF PUF-3511-VU1K (4) = "***"
077100         MOVE SPACES TO PUF-3511-VU1Z (4)
077200         ELSE
077300         MOVE PUF-3511-VU1K (4) TO PUF-3511-VU1Z (4).
077400 IF PUF-3511-VU1K (5) = SPACES
077500     NEXT SENTENCE

```

```

077600         ELSE
077700         IF PUF-3511-VU1K (5) = "***"
077800             MOVE SPACES TO PUF-3511-VU1Z (5)
077900             ELSE
078000             MOVE PUF-3511-VU1K (5) TO PUF-3511-VU1Z (5).
078100 860-MOVE-VP1-FIELDS.
078200     IF PLANT-TYP-3590-VP1K = SPACES
078300         NEXT SENTENCE
078400         ELSE
078500         IF PLANT-TYP-3590-VP1K = "*"
078600             MOVE SPACES TO PLANT-TYP-3590-VP1Z
078700             ELSE
078800             MOVE PLANT-TYP-3590-VP1K TO
078900             PLANT-TYP-3590-VP1Z.
079000     IF PLANT-CD-2646-VP1K = SPACES
079100         NEXT SENTENCE
079200         ELSE
079300         IF PLANT-CD-2646-VP1K = "*****"
079400             MOVE SPACES TO PLANT-CD-2646-VP1Z
079500             ELSE
079600             MOVE PLANT-CD-2646-VP1K TO PLANT-CD-2646-VP1Z.
079700     IF PHNO-ADJ-VP1K (1) = SPACES
079800         NEXT SENTENCE
079900         ELSE
080000         IF PHNO-ADJ-VP1K (1) = "*****"
080100             MOVE SPACES TO PHNO-ADJ-VP1Z (1)
080200             ELSE
080300             MOVE PHNO-ADJ-VP1K (1) TO
080400             PHNO-ADJ-VP1Z (1).
080500     IF PHNO-ADJ-VP1K (2) = SPACES
080600         NEXT SENTENCE
080700         ELSE
080800         IF PHNO-ADJ-VP1K (2) = "*****"
080900             MOVE SPACES TO PHNO-ADJ-VP1Z (2)
081000             ELSE
081100             MOVE PHNO-ADJ-VP1K (2) TO
081200             PHNO-ADJ-VP1Z (2).
081300     IF PHNO-ADJ-VP1K (3) = SPACES
081400         NEXT SENTENCE
081500         ELSE
081600         IF PHNO-ADJ-VP1K (3) = "*****"
081700             MOVE SPACES TO PHNO-ADJ-VP1Z (3)
081800             ELSE
081900             MOVE PHNO-ADJ-VP1K (3) TO
082000             PHNO-ADJ-VP1Z (3).
082100     IF PHNO-ADJ-VP1K (4) = SPACES
082200         NEXT SENTENCE
082300         ELSE
082400         IF PHNO-ADJ-VP1K (4) = "*****"
082500             MOVE SPACES TO PHNO-ADJ-VP1Z (4)
082600             ELSE
082700             MOVE PHNO-ADJ-VP1K (4) TO
082800             PHNO-ADJ-VP1Z (4).
082900     IF PHNO-ADJ-VP1K (5) = SPACES
083000         NEXT SENTENCE
083100         ELSE
083200         IF PHNO-ADJ-VP1K (5) = "*****"

```

```

083300             MOVE SPACES TO PHNO-ADJ-VP1Z (5)
083400             ELSE
083500             MOVE PHNO-ADJ-VP1K (5) TO
083600                 PHNO-ADJ-VP1Z (5).
083700 880-MOVE-V61-FIELDS.
083800     IF PLANT-CD-2646-V61K   = SPACES
083900         NEXT SENTENCE
084000         ELSE
084100             IF PLANT-CD-2646-V61K   = "*****"
084200                 MOVE SPACES TO PLANT-CD-2646-V61Z
084300                 ELSE
084400                     MOVE PLANT-CD-2646-V61K TO PLANT-CD-2646-V61Z.
084500     IF PHNO-STG-CD-3712-V61K = SPACES
084600         NEXT SENTENCE
084700         ELSE
084800             IF PHNO-STG-CD-3712-V61K = "*"
084900                 MOVE SPACES TO PHNO-STG-CD-3712-V61Z
085000                 ELSE
085100                     MOVE PHNO-STG-CD-3712-V61K TO PHNO-STG-CD-3712-V61Z.
085200     IF GRAMS-GRN-WGT-3941-V61K = SPACES
085300         NEXT SENTENCE
085400         ELSE
085500             IF GRAMS-GRN-WGT-3941-V61K = "*****"
085600                 MOVE SPACES TO GRAMS-GRN-WGT-3941-V61Z
085700                 ELSE
085800                     MOVE GRAMS-GRN-WGT-3941-V61K TO GRAMS-GRN-WGT-3941-V61Z.
085900     IF ADW-PCT-3546-V61K   = SPACES
086000         NEXT SENTENCE
086100         ELSE
086200             IF ADW-PCT-3546-V61K   = "****"
086300                 MOVE SPACES TO ADW-PCT-3546-V61Z
086400                 ELSE
086500                     MOVE ADW-PCT-3546-V61K TO ADW-PCT-3546-V61Z.
086600     IF BASAL-DIMS-3533-MIN-V61K = SPACES
086700         NEXT SENTENCE
086800         ELSE
086900             IF BASAL-DIMS-3533-MIN-V61K = "*****"
087000                 MOVE SPACES TO BASAL-DIMS-3533-MIN-V61Z
087100                 ELSE
087200                     MOVE BASAL-DIMS-3533-MIN-V61K TO BASAL-DIMS-3533-MIN-V61Z
087300     IF BASAL-DIMS-3533-MAX-V61K = SPACES
087400         NEXT SENTENCE
087500         ELSE
087600             IF BASAL-DIMS-3533-MAX-V61K = "*****"
087700                 MOVE SPACES TO BASAL-DIMS-3533-MAX-V61Z
087800                 ELSE
087900                     MOVE BASAL-DIMS-3533-MAX-V61K TO BASAL-DIMS-3533-MAX-V61Z
088000     IF CROWN-DIMS-3534-MIN-V61K = SPACES
088100         NEXT SENTENCE
088200         ELSE
088300             IF CROWN-DIMS-3534-MIN-V61K = "****"
088400                 MOVE SPACES TO CROWN-DIMS-3534-MIN-V61Z
088500                 ELSE
088600                     MOVE CROWN-DIMS-3534-MIN-V61K TO CROWN-DIMS-3534-MIN-V61Z
088700     IF CROWN-DIMS-3534-MAX-V61K = SPACES
088800         NEXT SENTENCE
088900         ELSE

```

```

089000         IF CROWN-DIMS-3534-MAX-V61K   = "****"
089100             MOVE SPACES TO CROWN-DIMS-3534-MAX-V61Z
089200             ELSE
089300             MOVE CROWN-DIMS-3534-MAX-V61K   TO CROWN-DIMS-3534-MAX-V61Z
089400 IF HGT-AVG-3504-V61K   = SPACES
089500             NEXT SENTENCE
089600             ELSE
089700             IF HGT-AVG-3504-V61K   = "*****"
089800                 MOVE SPACES TO HGT-AVG-3504-V61Z
089900                 ELSE
090000                     MOVE HGT-AVG-3504-V61K   TO HGT-AVG-3504-V61Z.
090100 IF AVG-LDR-LGT-7313-V61K   = SPACES
090200             NEXT SENTENCE
090300             ELSE
090400             IF AVG-LDR-LGT-7313-V61K   = "****"
090500                 MOVE SPACES TO AVG-LDR-LGT-7313-V61Z
090600                 ELSE
090700                     MOVE AVG-LDR-LGT-7313-V61K   TO AVG-LDR-LGT-7313-V61Z.
090800 IF PLANT-CD-2646-V61K   = SPACES
090900             NEXT SENTENCE
091000             ELSE
091100             IF PLANT-CD-2646-V61K   = "*****"
091200                 MOVE SPACES TO PLANT-CD-2646-V61Z
091300                 ELSE
091400                     MOVE PLANT-CD-2646-V61K   TO PLANT-CD-2646-V61Z.
091500 MOVE REC-CNT-V61K TO REC-CNT-V61Z.
091600*
091700 890-EDIT-DATE.
091800 MOVE SPACE TO DATE-MV-SW.
091900 MOVE DATA-DATE-6618-VP1Z TO DATE-WORK.
092000 PERFORM 900-EDIT-FIELDS.
092100 IF DATE-SW NOT = " "
092200     PERFORM 910-SWITCH-FIELDS
092300     PERFORM 900-EDIT-FIELDS.
092400 IF DATE-SW NOT = " "
092500     MOVE TODAYS-DATE TO DATA-DATE-6618-VF1Z.
092600 IF DATE-MV-SW NOT = " "
092700     MOVE MOVED-DATE TO DATA-DATE-6618-VF1Z.
092800 900-EDIT-FIELDS.
092900 MOVE SPACE TO DATE-SW.
093000 IF DW-MM NOT NUMERIC OR
093100     DW-MM > "12" OR
093200     DW-MM < "01"
093300     MOVE "X" TO DATE-SW.
093400 IF DW-DD NOT NUMERIC OR
093500     DW-DD < "01" OR
093600     DW-DD > "31"
093700     MOVE "X" TO DATE-SW.
093800 IF DW-YY NOT NUMERIC OR
093900     DW-YY < "78"
094000     MOVE "X" TO DATE-SW.
094100 910-SWITCH-FIELDS.
094200 MOVE " " TO DATE-MV-SW.
094300 IF DW-DD = "78" OR "79" OR "80" OR "81" OR "82"
094400     MOVE DW-MM TO MD-MM
094500     MOVE DW-DD TO MD-DD
094600     MOVE DW-YY TO MD-YY

```



```

094700          MOVE "X"    TO DATE-MV-SW.
094800 920-WRITE-Z-RCD.
094900          MOVE LIN-NUM-3578-VP1Z TO LAST-LIN-NUM.
095000          IF REC-TYP-3529-VF1Z = "VU"
095100          MOVE LIN-NUM-3578-VU1Z TO LAST-LIN-NUM.
095200          MOVE DIC-VP1Z TO RECD-ID-C.
095300          MOVE BLM-ADM-U-0003-VP1Z TO SDRP-C.
095400          IF REC-TYP-3529-VF1Z = "VF" MOVE SPACES TO OPEN-VF1Z.
095500          IF REC-TYP-3529-VF1Z = "VP" MOVE SPACES TO OPEN-VP1Z.
095600          IF REC-TYP-3529-VF1Z = "VU" MOVE SPACES TO OPEN-VU1Z.
095700          MOVE CTL TO CTL-SAVE.
095800          MOVE "A" TO ACTN-CD-7350-VF1Z.
095900          WRITE VF1Z-RCD.
096000 400-EXIT.
096100          EXIT.
096200*
096300 990-TERMINATE SECTION.
096400 990-PRINT.
096500          DISPLAY "  VF1    VP1    VU1    V61".
096600          DISPLAY VF1-CTR "  " VP1-CTR "  " VU1-CTR "  " V61-CTR.
096700 990-CLOSE.
096800          CLOSE PREV-FILE TRAN-FILE NEW-FILE.
096900*
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES115P.
000300*          V6, VF, VP, VU VERIFICATION LIST
000400*
000500 AUTHOR. CORA FISCHER.
000500 INSTALLATION.
000600 DATE-WRITTEN. 7/10/80.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400          SELECT INPUT-FILE1 ASSIGN TO I1-ES110UD1
001500          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600          SELECT OPTIONAL INPUT-FILE2 ASSIGN TO I2-ES120UD1
001700          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800          SELECT PRINT-FILE ASSIGN TO P1-PRINTER
001900          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000          SELECT SORT-FILE ASSIGN TO S1.
002100 DATA DIVISION.
002200 SUB-SCHEMA SECTION.
002300 DB CODVAL2 WITHIN BLMDIC.
002400 FILE SECTION.
002500 FD INPUT-FILE1          CODE-SET IS GBCD
002600                          LABEL RECORDS ARE STANDARD
002700                          DATA RECORDS ARE FDR-V6 FDR-VF
002800                          FDR-VP FDR-VU.
002900 01 FDR-V6.
003000 03 REC-TYPE-3529-V6-I1          PIC          X(02).
003100 03 FMT-NO-3576-V6-I1          PIC          X(01).
003200 03 FMT-CD-3579-V6-I1          PIC          X(01).

```

003300	03	ADM-UNIT-0003-V6-I1	PIC	X(08).
003400	03	DATA-DT-6618-V6-I1	PIC	X(06).
003500	03	ACT-CD-7350-V6-I1	PIC	X(01).
003600	03	LINE-NO-3578-V6-I1	PIC	X(04).
003700	03	PLANT-CD-2646-V6-I1	PIC	X(07).
003800	03	PHNO-STG-CD-3712-V6-I1	PIC	X(01).
003900	03	GRAMS-GRN-WGT-3941-V6-I1	PIC	X(04).
004000	03	ADW-PCT-3546-V6-I1	PIC	X(03).
004100	03	GRAMS-DRY-WGT-3942-V6-I1	PIC	X(04).
004200	03	BASAL-DIMS-3533-V6-I1	PIC	X(08).
004300	03	CROWN-DIMS-3534-V6-I1	PIC	X(06).
004400	03	HGT-AVG-3504-V6-I1	PIC	X(04).
004500	03	AVG-LDR-LGT-7313-V6-I1	PIC	X(03).
004600	03	FILLER	PIC	X(03).
004700	01	FDR-VF.		
004800	03	REC-TYPE-3529-VF-I1	PIC	X(02).
004900	03	FMT-NO-3576-VF-I1	PIC	X(01).
005000	03	FMT-CD-3579-VF-I1	PIC	X(01).
005100	03	ADM-UNIT-0003-VF-I1.		
005200	05	ADM-ST-0003-VF-I1	PIC	X(02).
005300	05	ADM-DI-0003-VF-I1	PIC	X(02).
005400	05	ADM-RA-0003-VF-I1	PIC	X(02).
005500	05	ADM-PU-0003-VF-I1	PIC	X(02).
005600	03	DATA-DT-6618-VF-I1	PIC	X(06).
005700	03	ACT-CD-7350-VF-I1	PIC	X(01).
005800	03	LINE-NO-3578-VF-I1	PIC	X(04).
005900	03	ANML-GRZG-CD-3929-VF-I1	PIC	X(02).
006000	03	MON-FORG-RQMT-3551-VF-I1	PIC	X(04).
006100	03	ANML-HGT-CLS-CD-3548-VF-I1	PIC	X(01).
006200	03	FILLER	PIC	X(36).
006300	01	FDR-VP.		
006400	03	REC-TYPE-3529-VP-I1	PIC	X(02).
006500	03	FMT-NO-3576-VP-I1	PIC	X(01).
006600	03	FMT-CD-3579-VP-I1	PIC	X(01).
006700	03	ADM-UNIT-0003-VP-I1	PIC	X(08).
006800	03	DATA-DT-6618-VP-I1	PIC	X(06).
006900	03	ACT-CD-7350-VP-I1	PIC	X(01).
007000	03	LINE-NO-3578-VP-I1	PIC	X(04).
007100	03	PLANT-CD-2646-VP-I1	PIC	X(07).
007200	03	PHNO-ADJ-FCTR-3545-VP-I1 OCCURS 8 TIMES	PIC	X(04).
007300	03	FILLER	PIC	X(04).
007400	01	FDR-VU.		
007500	03	REC-TYPE-3529-VU-I1	PIC	X(02).
007600	03	FMT-NO-3576-VU-I1	PIC	X(01).
007700	03	FMT-CD-3579-VU-I1	PIC	X(01).
007800	03	ADM-UNIT-0003-VU-I1	PIC	X(08).
007900	03	DATA-DT-6618-VU-I1	PIC	X(06).
008000	03	ACT-CD-7350-VU-I1	PIC	X(01).
008100	03	DUF-3917-VU-I1	PIC	X(01).
008200	03	LINE-NO-3578-VU-I1	PIC	X(04).
008300	03	PLANT-CD-2646-VU-I1	PIC	X(07).
008400	03	AUF-3928-VU-I1 OCCURS 5 TIMES	PIC	X(03).
008500	03	ANML-GRZG-CD-3929-VU-I1	PIC	X(02).
008600	03	PUF-3511-VU-I1 OCCURS 5 TIMES	PIC	X(02).
008700	03	FILLER	PIC	X(08).
008800	FD	INPUT-FILE2	CODE-SET IS GBCD	
008900			LABEL RECORDS ARE STANDARD	

```

009000          DATA RECORD IS FDR-V7.
009100 01  FDR-V7.
009200      03  REC-TYPE-3529-V7-I1          PIC          X(02).
009300      03  FMT-NO-3576-V7-I1          PIC          X(01).
009400      03  FMT-CD-3579-V7-I1          PIC          X(01).
009500      03  ADM-UNIT-0003-V7-I1         PIC          X(08).
009600      03  DATA-DT-6618-V7-I1         PIC          X(06).
009700      03  ACT-CD-7350-V7-I1          PIC          X(01).
009800      03  LINE-NO-3578-V7-I1         PIC          X(04).
009900      03  PLANT-CD-2646-V7-I1 OCCURS 9 TIMES PIC          X(07).
010000      03  FILLER                      PIC          X(04).
010100 FD  PRINT-FILE          CODE-SET IS GBCD
010200          LABEL RECORDS ARE STANDARD
010300          DATA RECORD IS PRT-REC.
010400 01  PRT-REC              PIC          X(132).
010500 SD  SORT-FILE          DATA RECORDS ARE S-KEY1, S-KEY2,
010600          S-KEY3, S-KEY4, S-KEY5.
010700 01  S-KEY1.
010800      03  S-KEY1A.
010900          05  REC-TYPE-3529-V6-S1      PIC          X(02).
011000          05  FMT-NO-3576-V6-S1      PIC          X(01).
011100          05  FMT-CD-3579-V6-S1      PIC          X(01).
011200          05  ADM-UNIT-0003-V6-S1.
011300              10  ADM-ST-0003-V6-S1    PIC          X(02).
011400              10  ADM-DI-0003-V6-S1    PIC          X(02).
011500              10  ADM-RA-0003-V6-S1    PIC          X(02).
011600              10  ADM-PU-0003-V6-S1    PIC          X(02).
011700          05  PLANT-CD-2646-V6-S1      PIC          X(07).
011800          05  PHNO-STG-CD-3712-V6-S1  PIC          X(01).
011900          05  FILLER                      PIC          X(04).
012000      03  DATA-DT-6618-V6-S1          PIC          X(06).
012100      03  ACT-CD-7350-V6-S1          PIC          X(01).
012200      03  LINE-NO-3578-V6-S1          PIC          X(04).
012300      03  GRAMS-GRN-WGT-3941-V6-S1     PIC          X(04).
012400      03  ADW-PCT-3546-V6-S1          PIC          X(03).
012500      03  GRAMS-DRY-WGT-3942-V6-S1     PIC          X(04).
012600      03  BA-DIMS-3533-V6-S1.
012700          05  BA-DIMS-MIN-3533-V6-S1    PIC          X(04).
012800          05  BA-DIMS-MIN-RE-3533-V6-S1 REDEFINES
012900              BA-DIMS-MIN-3533-V6-S1    PIC          99V99.
013000          05  BA-DIMS-MAX-3533-V6-S1    PIC          X(04).
013100          05  BA-DIMS-MAX-RE-3533-V6-S1 REDEFINES
013200              BA-DIMS-MAX-3533-V6-S1    PIC          99V99.
013300      03  CRN-DIMS-3534-V6-S1.
013400          05  CRN-DIMS-MIN-3534-V6-S1     PIC          X(03).
013500          05  CRN-DIMS-MIN-RE-3534-V6-S1  REDEFINES
013600              CRN-DIMS-MIN-3534-V6-S1     PIC          99V9.
013700          05  CRN-DIMS-MAX-3534-V6-S1     PIC          X(03).
013800          05  CRN-DIMS-MAX-RE-3534-V6-S1 REDEFINES
013900              CRN-DIMS-MAX-3534-V6-S1     PIC          99V9.
014000      03  HGT-AVG-3504-V6-S1          PIC          X(04).
014100      03  HGT-AVG-RE-3504-V6-S1 REDEFINES HGT-AVG-3504-V6-S1
014200          PIC          999V9.
014300      03  AVG-LDR-LGT-7313-V6-S1        PIC          X(03).
014400      03  AVG-LDR-LGT-RE-7313-V6-S1 REDEFINES
014500          AVG-LDR-LGT-7313-V6-S1        PIC          99V9.
014600      03  FILLER                      PIC          X(35).

```

014700	01	S-KEY2.			
014800	03	S-KEY1B.			
014900	05	REC-TYPE-3529-V7-S1	PIC	X(02).	
015000	05	FMT-NO-3576-V7-S1	PIC	X(01).	
015100	05	FMT-CD-3579-V7-S1	PIC	X(01).	
015200	05	ADM-UNIT-0003-V7-S1.			
015300	10	ADM-ST-0003-V7-S1	PIC	X(02).	
015400	10	ADM-DI-0003-V7-S1	PIC	X(02).	
015500	10	ADM-RA-0003-V7-S1	PIC	X(02).	
015600	10	ADM-PU-0003-V7-S1	PIC	X(02).	
015700	05	PLANT-CD1-2646-V7-S1	PIC	X(07).	
015800	05	FILLER	PIC	X(05).	
015900	03	DATA-DT-6618-V7-S1	PIC	X(06).	
016000	03	ACT-CD-7350-V7-S1	PIC	X(01).	
016100	03	LINE-NO-3578-V7-S1	PIC	X(04).	
016200	03	PLANT-CD-2646-V7-S1 OCCURS 9 TIMES	PIC	X(07).	
016300	03	FILLER	PIC	X(04).	
016400	01	S-KEY3.			
016500	03	S-KEY1C.			
016600	05	REC-TYPE-3529-VF-S1	PIC	X(02).	
016700	05	FMT-NO-3576-VF-S1	PIC	X(01).	
016800	05	FMT-CD-3579-VF-S1	PIC	X(01).	
016900	05	ADM-UNIT-0003-VF-S1.			
017000	10	ADM-ST-0003-VF-S1	PIC	X(02).	
017100	10	ADM-DI-0003-VF-S1	PIC	X(02).	
017200	05	ANML-GRZG-CD-3929-VF-S1	PIC	X(02).	
017300	05	FILLER	PIC	X(14).	
017400	03	DATA-DT-6618-VF-S1	PIC	X(06).	
017500	03	ACT-CD-7350-VF-S1	PIC	X(01).	
017600	03	LINE-NO-3578-VF-S1	PIC	X(04).	
017700	03	MON-FORG-RQMT-3551-VF-S1	PIC	X(04).	
017800	03	ANML-HGT-CLS-CD-3548-VF-S1	PIC	X(01).	
017900	03	ADM-RA-0003-VF-S1	PIC	X(02).	
018000	03	ADM-PU-0003-VF-S1	PIC	X(02).	
018100	03	FILLER	PIC	X(58).	
018200	01	S-KEY4.			
018300	03	S-KEY1D.			
018400	05	REC-TYPE-3529-VP-S1	PIC	X(02).	
018500	05	FMT-NO-3576-VP-S1	PIC	X(01).	
018600	05	FMT-CD-3579-VP-S1	PIC	X(01).	
018700	05	ADM-UNIT-0003-VP-S1.			
018800	10	ADM-ST-0003-VP-S1	PIC	X(02).	
018900	10	ADM-DI-0003-VP-S1	PIC	X(02).	
019000	10	ADM-RA-0003-VP-S1	PIC	X(02).	
019100	10	ADM-PU-0003-VP-S1	PIC	X(02).	
019200	05	PLANT-CD-2646-VP-S1	PIC	X(07).	
019300	05	FILLER	PIC	X(05).	
019400	03	DATA-DT-6618-VP-S1	PIC	X(06).	
019500	03	ACT-CD-7350-VP-S1	PIC	X(01).	
019600	03	LINE-NO-3578-VP-S1	PIC	X(04).	
019700	03	PHNO-ADJ-FCTR-3545-RE-VP-S1	PIC	X(32).	
019800	03	PHNO-ADJ-FCTR-3545-VP-S1 REDEFINES			
019900		PHNO-ADJ-FCTR-3545-RE-VP-S1 OCCURS 8 TIMES	PIC	X(04).	
020000	03	PHNO-ADJ-FCTR-RE-3545-VP-S1 REDEFINES			
020100		PHNO-ADJ-FCTR-3545-RE-VP-S1 OCCURS 8 TIMES	PIC	99V99.	
020200	03	FILLER	PIC	X(35).	
020300	01	S-KEY5.			

020400	03	S-KEY1E.			
020500	05	REC-TYPE-3529-VU-S1	PIC		X(02).
020600	05	FMT-NO-3576-VU-S1	PIC		X(01).
020700	05	FMT-CD-3579-VU-S1	PIC		X(01).
020800	05	ADM-UNIT-0003-VU-S1.			
020900	10	ADM-ST-0003-VU-S1	PIC		X(02).
021000	10	ADM-DI-0003-VU-S1	PIC		X(02).
021100	10	ADM-RA-0003-VU-S1	PIC		X(02).
021200	10	ADM-PU-0003-VU-S1	PIC		X(02).
021300	05	PLANT-CD-2646-VU-S1	PIC		X(07).
021400	05	ANML-GRZG-CD-3929-VU-S1	PIC		X(02).
021500	05	FILLER	PIC		X(03).
021600	03	DATA-DT-6618-VU-S1	PIC		X(06).
021700	03	ACT-CD-7350-VU-S1	PIC		X(01).
021800	03	DUF-3917-VU-S1	PIC		X(01).
021900	03	LINE-NO-3578-VU-S1	PIC		X(04).
022000	03	AUF-3928-VU-S1 OCCURS 5 TIMES	PIC		X(03).
022100	03	PUF-3511-VU-S1 OCCURS 5 TIMES	PIC		X(02).
022200	03	FILLER	PIC		X(41).
022300		WORKING-STORAGE SECTION.			
022400	77	INPUT1-CNT	PIC	9(07)	VALUE 0.
022500	77	PAGE-CNT	PIC	9(05)	VALUE 0.
022600	77	V6-CNT	PIC	9(07)	VALUE 0.
022700	77	VF-CNT	PIC	9(07)	VALUE 0.
022800	77	VP-CNT	PIC	9(07)	VALUE 0.
022900	77	VU-CNT	PIC	9(07)	VALUE 0.
023000	77	INPUT2-CNT	PIC	9(07)	VALUE 0.
023100	77	LINE-CNT	PIC	9(02)	VALUE 66.
023200	01	HLD-REC-TYPE	PIC	X(02)	VALUE SPACES.
023300	01	MONTH-TABLE.			
023400	03	MO-TAB.			
023500	05	FILLER	PIC	X(03)	VALUE "JAN".
023600	05	FILLER	PIC	X(03)	VALUE "FEB".
023700	05	FILLER	PIC	X(03)	VALUE "MAR".
023800	05	FILLER	PIC	X(03)	VALUE "APR".
023900	05	FILLER	PIC	X(03)	VALUE "MAY".
024000	05	FILLER	PIC	X(03)	VALUE "JUN".
024100	05	FILLER	PIC	X(03)	VALUE "JUL".
024200	05	FILLER	PIC	X(03)	VALUE "AUG".
024300	05	FILLER	PIC	X(03)	VALUE "SEP".
024400	05	FILLER	PIC	X(03)	VALUE "OCT".
024500	05	FILLER	PIC	X(03)	VALUE "NOV".
024600	05	FILLER	PIC	X(03)	VALUE "DEC".
024700	03	MON REDEFINES MO-TAB	PIC	X(03)	OCCURS 12 TIMES.
024800	01	EOF-SWITCH	PIC	9	VALUE ZERO.
024900	88	EOF			VALUE 1.
025000	01	EOR-SWITCH	PIC	9	VALUE ZERO.
025100	88	EOR			VALUE 1.
025200	01	PARAMETER	PIC	X(04).	
025300	01	HLD-DT.			
025400	03	HOLD-DT.			
025500	05	YR-DT	PIC	XX.	
025600	05	MO-DT	PIC	99.	
025700	05	DY-DT	PIC	XX.	
025800	03	INV-HLD.			
025900	05	INV-NM	PIC	X(20).	
026000	05	ST-DIST-CD.			

026100		07	ST-CD-HLD	PIC	X(02).	
026200		07	DI-CD-HLD	PIC	X(02).	
026300	03		EXPL-HLD.			
026400		05	DIST-NM-HLD	PIC	X(12).	
026500		05	RA-NM-HLD	PIC	X(13).	
026600		05	PU-NM-HLD	PIC	X(15).	
026700	03		FUNC-HLD.			
026800		05	ST-NM-HLD	PIC	X(10).	
026900		05	FILLER	PIC	X(14).	
027000			COPY DBSTATUS IN TPCOBOLIB.			
027100	01		HDR-1.			
027200		03	FILLER	PIC	X(08)	VALUE
027300			" DATE: " .			
027400	03		HDR-MO	PIC	X(03).	
027500	03		FILLER	PIC	X(01)	VALUE SPACE.
027600	03		HDR-DA	PIC	X(02).	
027700	03		FILLER	PIC	X(04)	VALUE ", 19".
027800	03		HDR-YR	PIC	X(02).	
027900	03		FILLER	PIC	X(21)	VALUE SPACES.
028000	03		FILLER	PIC	X(47)	VALUE
028100			"US DEPT OF INTERIOR - BUREAU OF LAND MANAGEMENT".			
028200	03		FILLER	PIC	X(29)	VALUE SPACES.
028300	03		FILLER	PIC	X(07)	VALUE
028400			"PAGE: " .			
028500	03		HDR-PG	PIC	ZZ,ZZ9.	
028600	03		FILLER	PIC	X(02)	VALUE SPACES.
028700	01		HDR-2.			
028800		03	FILLER	PIC	X(08)	VALUE
028900			"STATE: " .			
029000	03		HDR-ST-CD	PIC	X(02).	
029100	03		FILLER	PIC	X(04)	VALUE SPACES.
029200	03		HDR-ST-NM	PIC	X(10).	
029300	03		FILLER	PIC	X(30)	VALUE SPACES.
029400	03		FILLER	PIC	X(25)	VALUE
029500			"ECOLOGICAL SITE INVENTORY".			
029600	03		FILLER	PIC	X(35)	VALUE SPACES.
029700	03		FILLER	PIC	X(18)	VALUE
029800			"PROGRAM: ES115P " .			
029900	01		HDR-3.			
030000		03	FILLER	PIC	X(08)	VALUE
030100			" DI: " .			
030200	03		HDR-DIST-CD	PIC	X(02).	
030300	03		FILLER	PIC	X(04)	VALUE SPACES.
030400	03		HDR-DIST-NM	PIC	X(25).	
030500	03		FILLER	PIC	X(79)	VALUE SPACES.
030600	03		FILLER	PIC	X(14)	VALUE
030700			"PCN: SV115P " .			
030800	01		HDR-4.			
030900		03	FILLER	PIC	X(08)	VALUE
031000			" INV: " .			
031100	03		HDR-INV-CD	PIC	X(04).	
031200	03		FILLER	PIC	X(02)	VALUE SPACES.
031300	03		HDR-INV-NM	PIC	X(25).	
031400	03		FILLER	PIC	X(16)	VALUE SPACES.
031500	03		HDR-REC-TYPE	PIC	X(02).	
031600	03		FILLER	PIC	X(18)	VALUE
031700			" VERIFICATION LIST".			

031800	03	FILLER			PIC	X(57)	VALUE SPACES.
031900	01	HDR-5-V6.					
032000	03	FILLER			PIC	X(51)	VALUE
032100		"(1-2)	(3)			(4) (5)	".
032200	03	FILLER			PIC	X(46)	VALUE
032300		"(6)	(7)	(8)	(9)	(10)	".
032400	03	FILLER			PIC	X(34)	VALUE
032500		"(11-12)		(13)		(14)	".
032600	01	HDR-6-V6.					
032700	03	FILLER			PIC	X(51)	VALUE
032800		" REC	ADMINISTRATIVE	UNIT	DATE	ACT	LINE".
032900	03	FILLER			PIC	X(39)	VALUE
033000		"PLANT	PHEN-	GREEN	% DRY	DRY	".
033100	03	FILLER			PIC	X(42)	VALUE
033200		"BASAL	-DIMENSIONS-	CROWN	AVG	LEADER	".
033300	01	HDR-7-V6.					
033400	03	FILLER			PIC	X(45)	VALUE
033500		"TYPE	ST	DI	RA	PU	YYMMDD CD".
033600	03	FILLER			PIC	X(52)	VALUE
033700		"NO	SYMBOL	OLOGY	WGT	WGT	WGT MIN".
033800	03	FILLER			PIC	X(35)	VALUE
033900		"MAX	MIN	MAX	HGT	LGTH	".
034000	01	HDR-8-V6.					
034100	03	FILLER			PIC	X(51)	VALUE
034200		" 1-4	5-6	7-8	9-10	11-12	13-18 19 20-23".
034300	03	FILLER			PIC	X(52)	VALUE
034400		"24-30	31	32-35	36-38	39-42	43-46 47-50".
034500	03	FILLER			PIC	X(29)	VALUE
034600		"51-53	54-56	57-60	61-63		".
034700	01	HDR-9-V6.					
034800	03	FILLER			PIC	X(44)	VALUE
034900		"XXXX	XX	XX	XX	XXXXXX	X".
035000	03	FILLER			PIC	X(46)	VALUE
035100		"XXXX	XXXXXXXX	X	XXXX	XXX	XXXX".
035200	03	FILLER			PIC	X(42)	VALUE
035300		"99.99	99.99	99.9	99.9	999.9	99.9".
035400	01	HDR-10-DET-V6.					
035500	03	REC-TYPE-3529-V6-P1			PIC	X(02).	
035600	03	FMT-NO-3576-V6-P1			PIC	X(01).	
035700	03	FMT-CD-3579-V6-P1			PIC	X(01).	
035800	03	FILLER			PIC	X(04)	VALUE SPACES.
035900	03	ADM-ST-0003-V6-P1			PIC	X(02).	
036000	03	FILLER			PIC	X(03)	VALUE SPACES.
036100	03	ADM-DI-0003-V6-P1			PIC	X(02).	
036200	03	FILLER			PIC	X(03)	VALUE SPACES.
036300	03	ADM-RA-0003-V6-P1			PIC	X(02).	
036400	03	FILLER			PIC	X(03)	VALUE SPACES.
036500	03	ADM-PU-0003-V6-P1			PIC	X(02).	
036600	03	FILLER			PIC	X(04)	VALUE SPACES.
036700	03	DATA-DT-6618-V6-P1			PIC	X(06).	
036800	03	FILLER			PIC	X(03)	VALUE SPACES.
036900	03	ACT-CD-7350-V6-P1			PIC	X(01).	
037000	03	FILLER			PIC	X(05)	VALUE SPACES.
037100	03	LINE-NO-3578-V6-P1			PIC	X(04).	
037200	03	FILLER			PIC	X(03)	VALUE SPACES.
037300	03	PLANT-CD-2646-V6-P1			PIC	X(07).	
037400	03	FILLER			PIC	X(03)	VALUE SPACES.

037500	03	PHNO-STG-CD-3712-V6-P1	PIC	X(01).	
037600	03	FILLER	PIC	X(05)	VALUE SPACES.
037700	03	GRAMS-GRN-WGT-3941-V6-P1	PIC	X(04).	
037800	03	FILLER	PIC	X(04)	VALUE SPACES.
037900	03	ADW-PCT-3546-V6-P1	PIC	X(03).	
038000	03	FILLER	PIC	X(05)	VALUE SPACES.
038100	03	GRAMS-DRY-WGT-3942-V6-P1	PIC	X(04).	
038200	03	FILLER	PIC	X(03)	VALUE SPACES.
038300	03	BA-DIMS-MIN-3533-V6-P1	PIC	X(05).	
038400	03	BA-DIMS-MIN-RE-3533-V6-P1	REDEFINES		
038500		BA-DIMS-MIN-3533-V6-P1	PIC	99.99.	
038600	03	FILLER	PIC	X(01)	VALUE SPACE.
038700	03	BA-DIMS-MAX-3533-V6-P1	PIC	X(05).	
038800	03	BA-DIMS-MAX-RE-3533-V6-P1	REDEFINES		
038900		BA-DIMS-MAX-3533-V6-P1	PIC	99.99.	
039000	03	FILLER	PIC	X(02)	VALUE SPACES.
039100	03	CRN-DIMS-MIN-3534-V6-P1	PIC	X(04).	
039200	03	CRN-DIMS-MIN-RE-3534-V6-P1	REDEFINES		
039300		CRN-DIMS-MIN-3534-V6-P1	PIC	99.9.	
039400	03	FILLER	PIC	X(02)	VALUE SPACES.
039500	03	CRN-DIMS-MAX-3534-V6-P1	PIC	X(04).	
039600	03	CRN-DIMS-MAX-RE-3534-V6-P1	REDEFINES		
039700		CRN-DIMS-MAX-3534-V6-P1	PIC	99.9.	
039800	03	FILLER	PIC	X(04)	VALUE SPACES.
039900	03	HGT-AVG-3504-V6-P1	PIC	X(05).	
040000	03	HGT-AVG-RE-3504-V6-P1	REDEFINES		
040100		HGT-AVG-3504-V6-P1	PIC	999.9.	
040200	03	FILLER	PIC	X(04)	VALUE SPACES.
040300	03	AVG-LDR-LGT-7313-V6-P1	PIC	X(04).	
040400	03	AVG-LDR-LGT-RE-7313-V6-P1	REDEFINES		
040500		AVG-LDR-LGT-7313-V6-P1	PIC	99.9.	
040600	03	FILLER	PIC	X(02)	VALUE SPACES.
040700	01	HDR-5-V7.			
040800	03	FILLER	PIC	X(52)	VALUE
040900		"(1-2) (3) (4) (5)			".
041000	03	FILLER	PIC	X(51)	VALUE
041100		"(6) (7) PHENOLOGICAL EQUIVALENT			SPECIES".
041200	03	FILLER	PIC	X(29)	VALUE
041300		"(UNSAMPLED) (7) "			".
041400	01	HDR-6-V7.			
041500	03	FILLER	PIC	X(51)	VALUE
041600		" REC ADMINISTRATIVE UNIT DATE ACT			LINE".
041700	03	FILLER	PIC	X(54)	VALUE
041800		"PLANT PLANT PLANT PLANT PLANT			PLANT".
041900	03	FILLER	PIC	X(27)	VALUE
042000		"PLANT PLANT PLANT "			".
042100	01	HDR-7-V7.			
042200	03	FILLER	PIC	X(51)	VALUE
042300		"TYPE ST DI RA PU YMMDD CD			NO".
042400	03	FILLER	PIC	X(54)	VALUE
042500		"SYMBOL SYMBOL SYMBOL SYMBOL			SYMBOL".
042600	03	FILLER	PIC	X(27)	VALUE
042700		"SYMBOL SYMBOL SYMBOL "			".
042800	01	HDR-8-V7.			
042900	03	FILLER	PIC	X(51)	VALUE
043000		" 1-4 5-6 7-8 9-10 11-12 13-18 19			20-23".
043100	03	FILLER	PIC	X(54)	VALUE



043200		"24-30	31-37	38-44	45-51	52-58	59-65	".
043300	03	FILLER		PIC		X(27)	VALUE	
043400		"66-72	73-79	80-86	".			
043500	01	HDR-9-V7.						
043600	03	FILLER		PIC		X(44)	VALUE	
043700		"XXXX	XX XX	XX XX	XXXXXX	X	".	
043800	03	FILLER		PIC		X(51)	VALUE	
043900		"XXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	".
044000	03	FILLER		PIC		X(37)	VALUE	
044100		"XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	".		
044200	01	HDR-10-DET-V7.						
044300	03	REC-TYPE-3529-V7-P1		PIC		X(02).		
044400	03	FMT-NO-3576-V7-P1		PIC		X(01).		
044500	03	FMT-CD-3579-V7-P1		PIC		X(01).		
044600	03	FILLER		PIC		X(04)	VALUE SPACES.	
044700	03	ADM-ST-0003-V7-P1		PIC		X(02).		
044800	03	FILLER		PIC		X(03)	VALUE SPACES.	
044900	03	ADM-DI-0003-V7-P1		PIC		X(02).		
045000	03	FILLER		PIC		X(03)	VALUE SPACES.	
045100	03	ADM-RA-0003-V7-P1		PIC		X(02).		
045200	03	FILLER		PIC		X(03)	VALUE SPACES.	
045300	03	ADM-PU-0003-V7-P1		PIC		X(02).		
045400	03	FILLER		PIC		X(04)	VALUE SPACES.	
045500	03	DATA-DT-6618-V7-P1		PIC		X(06).		
045600	03	FILLER		PIC		X(03)	VALUE SPACES.	
045700	03	ACT-CD-7350-V7-P1		PIC		X(01).		
045800	03	FILLER		PIC		X(05)	VALUE SPACES.	
045900	03	LINE-NO-3578-V7-P1		PIC		X(04).		
046000	03	FILLER		PIC		X(02)	VALUE SPACES.	
046100	03	PLANT-CD1-2646-V7-P1		PIC		X(07).		
046200	03	FILLER		PIC		X(02)	VALUE SPACES.	
046300	03	PLANT-CD2-2646-V7-P1		PIC		X(07).		
046400	03	FILLER		PIC		X(02)	VALUE SPACES.	
046500	03	PLANT-CD3-2646-V7-P1		PIC		X(07).		
046600	03	FILLER		PIC		X(02)	VALUE SPACES.	
046700	03	PLANT-CD4-2646-V7-P1		PIC		X(07).		
046800	03	FILLER		PIC		X(02)	VALUE SPACES.	
046900	03	PLANT-CD5-2646-V7-P1		PIC		X(07).		
047000	03	FILLER		PIC		X(02)	VALUE SPACES.	
047100	03	PLANT-CD6-2646-V7-P1		PIC		X(07).		
047200	03	FILLER		PIC		X(02)	VALUE SPACES.	
047300	03	PLANT-CD7-2646-V7-P1		PIC		X(07).		
047400	03	FILLER		PIC		X(02)	VALUE SPACES.	
047500	03	PLANT-CD8-2646-V7-P1		PIC		X(07).		
047600	03	FILLER		PIC		X(02)	VALUE SPACES.	
047700	03	PLANT-CD9-2646-V7-P1		PIC		X(07).		
047800	03	FILLER		PIC		X(03)	VALUE SPACES.	
047900	01	HDR-5-VF.						
048000	03	FILLER		PIC		X(40)	VALUE	
048100		"(1-2	(3)		(4)	(5)".		
048200	03	FILLER		PIC		X(92)	VALUE SPACES.	
048300	01	HDR-6-VF.						
048400	03	FILLER		PIC		X(49)	VALUE	
048500		" REC	ADMINISTRATIVE	UNIT	DATE	ACT	LINE".	
048600	03	FILLER		PIC		X(12)	VALUE SPACES.	
048700	03	FILLER		PIC		X(51)	VALUE	
048800		"ANIMAL	SPECIES		MO FOR	HEIGHT	CLASS ".	

048900	03	FILLER		PIC	X(21)	VALUE		
049000		"AVAILABLE TO ANIMAL	"					
049100	01	HDR-7-VF.						
049200	03	FILLER		PIC	X(47)	VALUE		
049300		"TYPE	ST	DI	YYMMDD	CD	NO".	
049400	03	FILLER		PIC	X(45)	VALUE		
049500		"			CD	REQ".		
049600	03	FILLER		PIC	X(40)	VALUE		
049700		"	0'-3'	3'-4.5'	4.5'-7'	7' PLUS	".	
049800	01	HDR-8-VF.						
049900	03	FILLER		PIC	X(49)	VALUE		
050000		"	1-4	5-6	7-8	13-18	19	20-23".
050100	03	FILLER		PIC	X(32)	VALUE SPACES.		
050200	03	FILLER		PIC	X(51)	VALUE		
050300		"24-25	26-29	X	X	X	X	".
050400	01	HDR-9-VF.						
050500	03	FILLER		PIC	X(53)	VALUE		
050600		"XXXX	XX	XX	XXXXXX	X	XXXX	".
050700	03	FILLER		PIC	X(46)	VALUE		
050800		"XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XX	XXXX			".
050900	03	FILLER		PIC	X(33)	VALUE		
051000		"1	2	3	4			".
051100	01	HDR-10-DET-VF.						
051200	03	REC-TYPE-3529-VF-P1		PIC	X(02).			
051300	03	FMT-NO-3576-VF-P1		PIC	X(01).			
051400	03	FMT-CD-3579-VF-P1		PIC	X(01).			
051500	03	FILLER		PIC	X(06)	VALUE SPACES.		
051600	03	ADM-ST-0003-VF-P1		PIC	X(02).			
051700	03	FILLER		PIC	X(07)	VALUE SPACES.		
051800	03	ADM-DI-0003-VF-P1		PIC	X(02).			
051900	03	FILLER		PIC	X(08)	VALUE SPACES.		
052000	03	DATA-DT-6618-VF-P1		PIC	X(06).			
052100	03	FILLER		PIC	X(03)	VALUE SPACES.		
052200	03	ACT-CD-7350-VF-P1		PIC	X(01).			
052300	03	FILLER		PIC	X(05)	VALUE SPACES.		
052400	03	LINE-NO-3578-VF-P1		PIC	X(04).			
052500	03	FILLER		PIC	X(05)	VALUE SPACES.		
052600	03	ANML-GRZG-NAME-VF-P1		PIC	X(25).			
052700	03	FILLER		PIC	X(04)	VALUE SPACES.		
052800	03	ANML-GRZG-CD-3929-VF-P1		PIC	X(02).			
052900	03	FILLER		PIC	X(04)	VALUE SPACES.		
053000	03	MON-FORG-RQMT-3551-VF-P1		PIC	X(04).			
053100	03	FILLER		PIC	X(07)	VALUE SPACES.		
053200	03	ANML-HGT-0-3-3548-VF-P1		PIC	X(01).			
053300	03	FILLER		PIC	X(08)	VALUE SPACES.		
053400	03	ANML-HGT-3-4-3548-VF-P1		PIC	X(01).			
053500	03	FILLER		PIC	X(09)	VALUE SPACES.		
053600	03	ANML-HGT-4-7-3548-VF-P1		PIC	X(01).			
053700	03	FILLER		PIC	X(08)	VALUE SPACES.		
053800	03	ANML-HGT-7-OVR-3548-VF-P1		PIC	X(01).			
053900	03	FILLER		PIC	X(04)	VALUE SPACES.		
054000	01	HDR-5-VP.						
054100	03	FILLER		PIC	X(40)	VALUE		
054200		"(1-2)	(3)	(4)	(5)".			
054300	03	FILLER		PIC	X(49)	VALUE		
054400		"	(6)	(7)	PERCENT OF MAXIMUM	".		
054500	03	FILLER		PIC	X(43)	VALUE		

```

054600          "PRODUCTION BY PHENOLOGY STATE          (7)  ".
054700 01  HDR-6-VP.
054800 03  FILLER                                PIC          X(54)    VALUE
054900          " REC      ADMINISTRATIVE UNIT   DATE   ACT      LINE      ".
055000 03  FILLER                                PIC          X(49)    VALUE
055100          "PLANT      BEG      VEG      BOOT      PEAK      SEED".
055200 03  FILLER                                PIC          X(25)    VALUE SPACES.
055300 03  FILLER                                PIC          X(4)     VALUE
055400          "RE- ".
055500 01  HDR-7-VP.
055600 03  FILLER                                PIC          X(47)    VALUE
055700          "TYPE      ST   DI   RA   PU   YYMMDD   CD      NO".
055800 03  FILLER                                PIC          X(48)    VALUE
055900          "          SYMBOL      GROWTH   STAGE   STAGE   FLURG".
056000 03  FILLER                                PIC          X(37)    VALUE
056100          "          RIPE      MAT      DORM      GROWTH".
056200 01  HDR-8-VP.
056300 03  FILLER                                PIC          X(53)    VALUE
056400          "1-4      5-6   7-8  9-10 11-12 13-18   19   20-23  ".
056500 03  FILLER                                PIC          X(51)    VALUE
056600          "24-30      31-34   35-38   39-42   43-46   47-50".
056700 03  FILLER                                PIC          X(28)    VALUE
056800          "          51-54   55-58   59-62  ".
056900 01  HDR-9-VP.
057000 03  FILLER                                PIC          X(52)    VALUE
057100          "XXXX   XX   XX   XX   XX   XXXXXX   X   XXXX   ".
057200 03  FILLER                                PIC          X(52)    VALUE
057300          "XXXXXXXX   99.99   99.99   99.99   99.99   99.99".
057400 03  FILLER                                PIC          X(28)    VALUE
057500          "          99.99   99.99   99.99  ".
057600 01  HDR-10-DET-VP.
057700 03  REC-TYPE-3529-VP-P1          PIC          X(02).
057800 03  FMT-NO-3576-VP-P1          PIC          X(01).
057900 03  FMT-CD-3579-VP-P1          PIC          X(01).
058000 03  FILLER                                PIC          X(04)    VALUE SPACES.
058100 03  ADM-ST-0003-VP-P1          PIC          X(02).
058200 03  FILLER                                PIC          X(03)    VALUE SPACES.
058300 03  ADM-DI-0003-VP-P1          PIC          X(02).
058400 03  FILLER                                PIC          X(03)    VALUE SPACES.
058500 03  ADM-RA-0003-VP-P1          PIC          X(02).
058600 03  FILLER                                PIC          X(03)    VALUE SPACES.
058700 03  ADM-PU-0003-VP-P1          PIC          X(02).
058800 03  FILLER                                PIC          X(04)    VALUE SPACES.
058900 03  DATA-DT-6618-VP-P1        PIC          X(06).
059000 03  FILLER                                PIC          X(03)    VALUE SPACES.
059100 03  ACT-CD-7350-VP-P1          PIC          X(01).
059200 03  FILLER                                PIC          X(05)    VALUE SPACES.
059300 03  LINE-NO-3578-VP-P1          PIC          X(04).
059400 03  FILLER                                PIC          X(04)    VALUE SPACES.
059500 03  PLANT-CD-2646-VP-P1        PIC          X(07).
059600 03  FILLER                                PIC          X(04)    VALUE SPACES.
059700 03  PHNO-ADJ-FCTR1-3545-VP-P1  PIC 99.99.
059800 03  PHNO-ADJ-FCTR1-RE-3545-VP-P1 REDEFINES
059900          PHNO-ADJ-FCTR1-3545-VP-P1          PIC          X(05).
060000 03  FILLER                                PIC          X(04)    VALUE SPACES.
060100 03  PHNO-ADJ-FCTR2-3545-VP-P1  PIC 99.99.
060200 03  PHNO-ADJ-FCTR2-RE-3545-VP-P1 REDEFINES

```

060300		PHNO-ADJ-FCTR2-3545-VP-P1	PIC	X(05).
060400	03	FILLER	PIC	X(04) VALUE SPACES.
060500	03	PHNO-ADJ-FCTR3-3545-VP-P1	PIC	99.99.
060600	03	PHNO-ADJ-FCTR3-RE-3545-VP-P1	REDEFINES	
060700		PHNO-ADJ-FCTR3-3545-VP-P1	PIC	X(05).
060800	03	FILLER	PIC	X(04) VALUE SPACES.
060900	03	PHNO-ADJ-FCTR4-3545-VP-P1	PIC	99.99.
061000	03	PHNO-ADJ-FCTR4-RE-3545-VP-P1	REDEFINES	
061100		PHNO-ADJ-FCTR4-3545-VP-P1	PIC	X(05).
061200	03	FILLER	PIC	X(04) VALUE SPACES.
061300	03	PHNO-ADJ-FCTR5-3545-VP-P1	PIC	99.99.
061400	03	PHNO-ADJ-FCTR5-RE-3545-VP-P1	REDEFINES	
061500		PHNO-ADJ-FCTR5-3545-VP-P1	PIC	X(05).
061600	03	FILLER	PIC	X(04) VALUE SPACES.
061700	03	PHNO-ADJ-FCTR6-3545-VP-P1	PIC	99.99.
061800	03	PHNO-ADJ-FCTR6-RE-3545-VP-P1	REDEFINES	
061900		PHNO-ADJ-FCTR6-3545-VP-P1	PIC	X(05).
062000	03	FILLER	PIC	X(04) VALUE SPACES.
062100	03	PHNO-ADJ-FCTR7-3545-VP-P1	PIC	99.99.
062200	03	PHNO-ADJ-FCTR7-RE-3545-VP-P1	REDEFINES	
062300		PHNO-ADJ-FCTR7-3545-VP-P1	PIC	X(05).
062400	03	FILLER	PIC	X(04) VALUE SPACES.
062500	03	PHNO-ADJ-FCTR8-3545-VP-P1	PIC	99.99.
062600	03	PHNO-ADJ-FCTR8-RE-3545-VP-P1	REDEFINES	
062700		PHNO-ADJ-FCTR8-3545-VP-P1	PIC	X(05).
062800	03	FILLER	PIC	X(01) VALUE SPACES.
062900	01	HDR-5-VU.		
063000	03	FILLER	PIC	X(5) VALUE
063100		"(1-2)".		
063200	03	FILLER	PIC	X(26) VALUE SPACES.
063300	03	FILLER	PIC	X(18) VALUE
063400		"(4) (5) (9-10)".		
063500	03	FILLER	PIC	X(12) VALUE SPACES.
063600	03	FILLER	PIC	X(39) VALUE
063700		"(6) (7) ALLOWABLE USE FACTOR (7) (8)".		
063800	03	FILLER	PIC	X(5) VALUE SPACES.
063900	03	FILLER	PIC	X(27) VALUE
064000		"PROPER USE FACTOR OR "		
064100	01	HDR-6-VU.		
064200	03	FILLER	PIC	X(51) VALUE
064300		" REC ADMINISTRATIVE UNIT DATE ACT P OR "		
064400	03	FILLER	PIC	X(54) VALUE
064500		"LINE PLANT (PERCENT OF PLANT UTILIZED) ANIM "		
064600	03	FILLER	PIC	X(27) VALUE
064700		"DIETARY PREFERENCE VALUE "		
064800	01	HDR-7-VU.		
064900	03	FILLER	PIC	X(52) VALUE
065000		"TYPE ST DI RA PU YYMMDD CD D "		
065100	03	FILLER	PIC	X(51) VALUE
065200		"NO SYMBOL SPRING SUM FALL WINT YR SP "		
065300	03	FILLER	PIC	X(29) VALUE
065400		"SPRING SUM FALL WINT YR "		
065500	01	HDR-8-VU.		
065600	03	FILLER	PIC	X(51) VALUE
065700		" 1-4 5-6 7-8 9-10 11-12 13-18 19 20 "		
065800	03	FILLER	PIC	X(52) VALUE
065900		"21-24 25-31 32-34 35-37 38-40 41-43 44-46 47-48 "		

066000	03	FILLER		PIC	X(30)	VALUE
066100		" 49-50 51-52 53-54 55-56 57-58".				
066200	01	HDR-9-VU.				
066300	03	FILLER		PIC	X(51)	VALUE
066400		"XXXX XX XX XX XX XXXXXX X X".				
066500	03	FILLER		PIC	X(47)	VALUE
066600		"XXXX XXXXXXXX XXX XXX XXX XXX".				
066700	03	FILLER		PIC	X(34)	VALUE
066800		"XX XX XX XX XX XX".				
066900	01	HDR-10-DET-VU.				
067000	03	REC-TYPE-3529-VU-P1		PIC	X(02).	
067100	03	FMT-NO-3576-VU-P1		PIC	X(01).	
067200	03	FMT-CD-3579-VU-P1		PIC	X(01).	
067300	03	FILLER		PIC	X(04)	VALUE SPACES.
067400	03	ADM-ST-0003-VU-P1		PIC	X(02).	
067500	03	FILLER		PIC	X(03)	VALUE SPACES.
067600	03	ADM-DI-0003-VU-P1		PIC	X(02).	
067700	03	FILLER		PIC	X(03)	VALUE SPACES.
067800	03	ADM-RA-0003-VU-P1		PIC	X(02).	
067900	03	FILLER		PIC	X(03)	VALUE SPACES.
068000	03	ADM-PU-0003-VU-P1		PIC	X(02).	
068100	03	FILLER		PIC	X(04)	VALUE SPACES.
068200	03	DATA-DT-6618-VU-P1		PIC	X(06).	
068300	03	FILLER		PIC	X(04)	VALUE SPACES.
068400	03	ACT-CD-7350-VU-P1		PIC	X(01).	
068500	03	FILLER		PIC	X(05)	VALUE SPACES.
068600	03	DUF-3917-VU-P1		PIC	X(01).	
068700	03	FILLER		PIC	X(05)	VALUE SPACES.
068800	03	LINE-NO-3578-VU-P1		PIC	X(04).	
068900	03	FILLER		PIC	X(03)	VALUE SPACES.
069000	03	PLANT-CD-2646-VU-P1		PIC	X(07).	
069100	03	FILLER		PIC	X(03)	VALUE SPACES.
069200	03	AUF1-3928-VU-P1		PIC	X(03).	
069300	03	FILLER		PIC	X(03)	VALUE SPACES.
069400	03	AUF2-3928-VU-P1		PIC	X(03).	
069500	03	FILLER		PIC	X(03)	VALUE SPACES.
069600	03	AUF3-3928-VU-P1		PIC	X(03).	
069700	03	FILLER		PIC	X(03)	VALUE SPACES.
069800	03	AUF4-3928-VU-P1		PIC	X(03).	
069900	03	FILLER		PIC	X(03)	VALUE SPACES.
070000	03	AUF5-3928-VU-P1		PIC	X(03).	
070100	03	FILLER		PIC	X(03)	VALUE SPACES.
070200	03	ANML-GRZG-CD-3929-VU-P1		PIC	X(02).	
070300	03	FILLER		PIC	X(04)	VALUE SPACES.
070400	03	PUF1-3511-VU-P1		PIC	X(02).	
070500	03	FILLER		PIC	X(04)	VALUE SPACES.
070600	03	PUF2-3511-VU-P1		PIC	X(02).	
070700	03	FILLER		PIC	X(04)	VALUE SPACES.
070800	03	PUF3-3511-VU-P1		PIC	X(02).	
070900	03	FILLER		PIC	X(04)	VALUE SPACES.
071000	03	PUF4-3511-VU-P1		PIC	X(02).	
071100	03	FILLER		PIC	X(04)	VALUE SPACES.
071200	03	PUF5-3511-VU-P1		PIC	X(02).	
071300	03	FILLER		PIC	X(02)	VALUE SPACES.
071400		PROCEDURE DIVISION.				
071500		START-SORT SECTION.				
071600		100-SORT.				

```

071700          SORT SORT-FILE ON ASCENDING S-KEY1A
071800      INPUT PROCEDURE PRE-SORT
071900      OUTPUT PROCEDURE POST-SORT.
072000 200-END-SECTION.
072100      FINISH DIC-DE.
072200      DISPLAY "V6-CNT"  V6-CNT.
072300      DISPLAY "V7-CNT"  INPUT2-CNT.
072400      DISPLAY "VF-CNT"  VF-CNT.
072500      DISPLAY "VP-CNT"  VP-CNT.
072600      DISPLAY "VU-CNT"  VU-CNT.
072700      CLOSE PRINT-FILE.
072800      STOP RUN.
072900 PRE-SORT SECTION.
073000 300-HSKPNG.
073100      OPEN INPUT INPUT-FILE1.
073200      MOVE SPACES TO S-KEY1  S-KEY2  S-KEY3  S-KEY4  S-KEY5.
073300 400-MAIN.
073400      PERFORM 500-RD-FILE1 THRU 600-EXIT-RD-FL1 UNTIL EOF.
073500      MOVE 0 TO EOF-SWITCH.
073600      CLOSE INPUT-FILE1.
073700      OPEN INPUT INPUT-FILE2.
073800      PERFORM 2000-RD-FILE2 THRU 3000-EXIT-RD-FL2 UNTIL EOF.
073900      CLOSE INPUT-FILE2.
074000      GO TO 3000-EXIT-RD-FL2.
074100 500-RD-FILE1.
074200      READ INPUT-FILE1 AT END MOVE 1 TO EOF-SWITCH.
074300      IF (EOF-SWITCH = 1) GO TO 600-EXIT-RD-FL1.
074400      ADD 1 TO INPUT1-CNT.
074500      IF REC-TYPE-3529-V6-I1 = "V6"
074600          PERFORM 700-MV-V6-TO-SRT THRU 750-EXIT-V6
074700          GO TO 600-EXIT-RD-FL1.
074800      IF REC-TYPE-3529-VF-I1 = "VF"
074900          PERFORM 800-MV-VF-TO-SRT THRU 850-EXIT-VF
075000          GO TO 600-EXIT-RD-FL1.
075100      IF REC-TYPE-3529-VP-I1 = "VP"
075200          PERFORM 900-MV-VP-TO-SRT THRU 950-EXIT-VP
075300          GO TO 600-EXIT-RD-FL1.
075400      IF REC-TYPE-3529-VU-I1 = "VU"
075500          PERFORM 1000-MV-VU-TO-SRT THRU 1050-EXIT-VU
075600          GO TO 600-EXIT-RD-FL1.
075700 600-EXIT-RD-FL1.
075800      EXIT.
075900 700-MV-V6-TO-SRT.
076000      ADD 1 TO V6-CNT.
076100      MOVE REC-TYPE-3529-V6-I1 TO REC-TYPE-3529-V6-S1.
076200      MOVE FMT-NO-3576-V6-I1 TO FMT-NO-3576-V6-S1.
076300      MOVE FMT-CD-3579-V6-I1 TO FMT-CD-3579-V6-S1.
076400      MOVE ADM-UNIT-0003-V6-I1 TO ADM-UNIT-0003-V6-S1.
076500      MOVE DATA-DT-6618-V6-I1 TO DATA-DT-6618-V6-S1.
076600      MOVE ACT-CD-7350-V6-I1 TO ACT-CD-7350-V6-S1.
076700      MOVE LINE-NO-3578-V6-I1 TO LINE-NO-3578-V6-S1.
076800      MOVE PLANT-CD-2646-V6-I1 TO PLANT-CD-2646-V6-S1.
076900      MOVE PHNO-STG-CD-3712-V6-I1 TO PHNO-STG-CD-3712-V6-S1.
077000      MOVE GRAMS-GRN-WGT-3941-V6-I1 TO GRAMS-GRN-WGT-3941-V6-S1.
077100      MOVE ADW-PCT-3546-V6-I1 TO ADW-PCT-3546-V6-S1.
077200      MOVE GRAMS-DRY-WGT-3942-V6-I1 TO GRAMS-DRY-WGT-3942-V6-S1.
077300      MOVE BASAL-DIMS-3533-V6-I1 TO BA-DIMS-3533-V6-S1.

```

077400 MOVE CROWN-DIMS-3534-V6-I1 TO CRN-DIMS-3534-V6-S1.  
077500 MOVE HGT-AVG-3504-V6-I1 TO HGT-AVG-3504-V6-S1.  
077600 MOVE AVG-LDR-LGT-7313-V6-I1 TO AVG-LDR-LGT-7313-V6-S1.  
077700 RELEASE S-KEY1.  
077800 750-EXIT-V6.  
077900 EXIT.  
078000 800-MV-VF-TO-SRT.  
078100 ADD 1 TO VF-CNT.  
078200 MOVE REC-TYPE-3529-VF-I1 TO REC-TYPE-3529-VF-S1.  
078300 MOVE FMT-NO-3576-VF-I1 TO FMT-NO-3576-VF-S1.  
078400 MOVE FMT-CD-3579-VF-I1 TO FMT-CD-3579-VF-S1.  
078500 MOVE ADM-ST-0003-VF-I1 TO ADM-ST-0003-VF-S1.  
078600 MOVE ADM-DI-0003-VF-I1 TO ADM-DI-0003-VF-S1.  
078700 MOVE DATA-DT-6618-VF-I1 TO DATA-DT-6618-VF-S1.  
078800 MOVE ACT-CD-7350-VF-I1 TO ACT-CD-7350-VF-S1.  
078900 MOVE LINE-NO-3578-VF-I1 TO LINE-NO-3578-VF-S1.  
079000 MOVE ANML-GRZG-CD-3929-VF-I1 TO ANML-GRZG-CD-3929-VF-S1.  
079100 MOVE MON-FORG-RQMT-3551-VF-I1 TO MON-FORG-RQMT-3551-VF-S1.  
079200 MOVE ANML-HGT-CLS-CD-3548-VF-I1 TO ANML-HGT-CLS-CD-3548-VF-S1.  
079300 RELEASE S-KEY3.  
079400 850-EXIT-VF.  
079500 EXIT.  
079600 900-MV-VP-TO-SRT.  
079700 ADD 1 TO VP-CNT.  
079800 MOVE REC-TYPE-3529-VP-I1 TO REC-TYPE-3529-VP-S1.  
079900 MOVE FMT-NO-3576-VP-I1 TO FMT-NO-3576-VP-S1.  
080000 MOVE FMT-CD-3579-VP-I1 TO FMT-CD-3579-VP-S1.  
080100 MOVE ADM-UNIT-0003-VP-I1 TO ADM-UNIT-0003-VP-S1.  
080200 MOVE DATA-DT-6618-VP-I1 TO DATA-DT-6618-VP-S1.  
080300 MOVE ACT-CD-7350-VP-I1 TO ACT-CD-7350-VP-S1.  
080400 MOVE LINE-NO-3578-VP-I1 TO LINE-NO-3578-VP-S1.  
080500 MOVE PLANT-CD-2646-VP-I1 TO PLANT-CD-2646-VP-S1.  
080600 MOVE PHNO-ADJ-FCTR-3545-VP-I1 (1) TO  
080700 PHNO-ADJ-FCTR-3545-VP-S1 (1).  
080800 MOVE PHNO-ADJ-FCTR-3545-VP-I1 (2) TO  
080900 PHNO-ADJ-FCTR-3545-VP-S1 (2).  
081000 MOVE PHNO-ADJ-FCTR-3545-VP-I1 (3) TO  
081100 PHNO-ADJ-FCTR-3545-VP-S1 (3).  
081200 MOVE PHNO-ADJ-FCTR-3545-VP-I1 (4) TO  
081300 PHNO-ADJ-FCTR-3545-VP-S1 (4).  
081400 MOVE PHNO-ADJ-FCTR-3545-VP-I1 (5) TO  
081500 PHNO-ADJ-FCTR-3545-VP-S1 (5).  
081600 MOVE PHNO-ADJ-FCTR-3545-VP-I1 (6) TO  
081700 PHNO-ADJ-FCTR-3545-VP-S1 (6).  
081800 MOVE PHNO-ADJ-FCTR-3545-VP-I1 (7) TO  
081900 PHNO-ADJ-FCTR-3545-VP-S1 (7).  
082000 MOVE PHNO-ADJ-FCTR-3545-VP-I1 (8) TO  
082100 PHNO-ADJ-FCTR-3545-VP-S1 (8).  
082200 RELEASE S-KEY4.  
082300 950-EXIT-VP.  
082400 EXIT.  
082500 1000-MV-VU-TO-SRT.  
082600 ADD 1 TO VU-CNT.  
082700 MOVE REC-TYPE-3529-VU-I1 TO REC-TYPE-3529-VU-S1.  
082800 MOVE FMT-NO-3576-VU-I1 TO FMT-NO-3576-VU-S1.  
082900 MOVE FMT-CD-3579-VU-I1 TO FMT-CD-3579-VU-S1.  
083000 MOVE ADM-UNIT-0003-VU-I1 TO ADM-UNIT-0003-VU-S1.

```

083100     MOVE DATA-DT-6618-VU-I1 TO DATA-DT-6618-VU-S1.
083200     MOVE ACT-CD-7350-VU-I1 TO ACT-CD-7350-VU-S1.
083300     MOVE DUF-3917-VU-I1 TO DUF-3917-VU-S1.
083400     MOVE LINE-NO-3578-VU-I1 TO LINE-NO-3578-VU-S1.
083500     MOVE PLANT-CD-2646-VU-I1 TO PLANT-CD-2646-VU-S1.
083600     MOVE AUF-3928-VU-I1 (1) TO AUF-3928-VU-S1 (1).
083700     MOVE AUF-3928-VU-I1 (2) TO AUF-3928-VU-S1 (2).
083800     MOVE AUF-3928-VU-I1 (3) TO AUF-3928-VU-S1 (3).
083900     MOVE AUF-3928-VU-I1 (4) TO AUF-3928-VU-S1 (4).
084000     MOVE AUF-3928-VU-I1 (5) TO AUF-3928-VU-S1 (5).
084100     MOVE ANML-GRZG-CD-3929-VU-I1 TO ANML-GRZG-CD-3929-VU-S1.
084200     MOVE PUF-3511-VU-I1 (1) TO PUF-3511-VU-S1 (1).
084300     MOVE PUF-3511-VU-I1 (2) TO PUF-3511-VU-S1 (2).
084400     MOVE PUF-3511-VU-I1 (3) TO PUF-3511-VU-S1 (3).
084500     MOVE PUF-3511-VU-I1 (4) TO PUF-3511-VU-S1 (4).
084600     MOVE PUF-3511-VU-I1 (5) TO PUF-3511-VU-S1 (5).
084700     RELEASE S-KEY5.
084800 1050-EXIT-VU.
084900     EXIT.
085000 2000-RD-FILE2.
085100     READ INPUT-FILE2 AT END MOVE 1 TO EOF-SWITCH.
085200     IF (EOF-SWITCH = 1) GO TO 3000-EXIT-RD-FL2.
085300     ADD 1 TO INPUT2-CNT.
085400     MOVE REC-TYPE-3529-V7-I1 TO REC-TYPE-3529-V7-S1.
085500     MOVE FMT-NO-3576-V7-I1 TO FMT-NO-3576-V7-S1.
085600     MOVE FMT-CD-3579-V7-I1 TO FMT-CD-3579-V7-S1.
085700     MOVE ADM-UNIT-0003-V7-I1 TO ADM-UNIT-0003-V7-S1.
085800     MOVE DATA-DT-6618-V7-I1 TO DATA-DT-6618-V7-S1.
085900     MOVE ACT-CD-7350-V7-I1 TO ACT-CD-7350-V7-S1.
086000     MOVE LINE-NO-3578-V7-I1 TO LINE-NO-3578-V7-S1.
086100     MOVE PLANT-CD-2646-V7-I1 (1) TO PLANT-CD1-2646-V7-S1.
086200     MOVE PLANT-CD-2646-V7-I1 (1) TO PLANT-CD-2646-V7-S1 (1).
086300     MOVE PLANT-CD-2646-V7-I1 (2) TO PLANT-CD-2646-V7-S1 (2).
086400     MOVE PLANT-CD-2646-V7-I1 (3) TO PLANT-CD-2646-V7-S1 (3).
086500     MOVE PLANT-CD-2646-V7-I1 (4) TO PLANT-CD-2646-V7-S1 (4).
086600     MOVE PLANT-CD-2646-V7-I1 (5) TO PLANT-CD-2646-V7-S1 (5).
086700     MOVE PLANT-CD-2646-V7-I1 (6) TO PLANT-CD-2646-V7-S1 (6).
086800     MOVE PLANT-CD-2646-V7-I1 (7) TO PLANT-CD-2646-V7-S1 (7).
086900     MOVE PLANT-CD-2646-V7-I1 (8) TO PLANT-CD-2646-V7-S1 (8).
087000     MOVE PLANT-CD-2646-V7-I1 (9) TO PLANT-CD-2646-V7-S1 (9).
087100     RELEASE S-KEY2.
087200 3000-EXIT-RD-FL2.
087300     EXIT.
087400 POST-SORT SECTION.
087500 3050-RET-HSKPNG.
087600     OPEN OUTPUT PRINT-FILE.
087700     ACCEPT PARAMETER.
087800     ACCEPT HOLD-DT FROM DATE.
087900     MOVE YR-DT TO HDR-YR.
088000     MOVE MON(MO-DT) TO HDR-MO.
088100     MOVE DY-DT TO HDR-DA.
088200     READY DIC-DE.
088300     PERFORM 4000-VALIDATE-INV THRU 4050-EXIT-STDI.
088400     RETURN SORT-FILE AT END MOVE 1 TO EOR-SWITCH.
088500     MOVE REC-TYPE-3529-V6-S1 TO HLD-REC-TYPE.
088600     PERFORM 4100-CHK-LINE-CNT THRU 4150-EXIT-LINE-OVR50.
088700 3070-MAIN-DRIVER.

```



```

088800     PERFORM 4300-DET-REC-LINE THRU 4350-EXIT-RET UNTIL EOR.
088900     IF (EOR-SWITCH = 1) GO TO 4830-DUMMY.
089000 4000-VALIDATE-INV.
089100     MOVE PARAMETER TO DE-CD-8822-DEC HDR-INV-CD.
089200     MOVE 3940 TO DE-NO-8801-DEC.
089300     FIND ANY CODE-DEC.
089400     MOVE DB-STATUS TO DB-STAT.
089500     IF NOT OK
089600         MOVE "UNKNOWN" TO HDR-ST-NM HDR-DIST-NM HDR-INV-NM
089700         GO TO 4050-EXIT-STD I.
089800     GET CODE-DEC.
089900     MOVE DB-STATUS TO DB-STAT.
090000     IF NOT OK
090100         DISPLAY "ES115PBD DIDN'T GET INVN"
090200         DISPLAY DB-STAT
090300         GO TO 4050-EXIT-STD I.
090400     MOVE DE-CD-NAM-8823-DEC TO INV-HLD.
090500     MOVE INV-NM TO HDR-INV-NM.
090600 4005-VALIDATE-ST.
090700     MOVE ST-CD-HLD TO DE-CD-8822-DEC HDR-ST-CD.
090800     MOVE 0003 TO DE-NO-8801-DEC.
090900     FIND ANY CODE-DEC.
091000     MOVE DB-STATUS TO DB-STAT.
091100     IF NOT OK
091200         MOVE "UNKNOWN" TO HDR-ST-NM
091300         GO TO 4008-EXIT-ST.
091400     GET CODE-DEC.
091500     MOVE DB-STATUS TO DB-STAT.
091600     IF NOT OK
091700         DISPLAY "ES115PBD 3 DIDN'T GET ST"
091800         DISPLAY "ES115PBD 4 " DB-STAT
091900         GO TO 4008-EXIT-ST.
092000     MOVE DE-CD-NAM-8823-DEC TO FUNC-HLD.
092100     MOVE ST-NM-HLD TO HDR-ST-NM.
092200 4008-EXIT-ST.
092300     EXIT.
092400 4010-VALIDATE-STD I.
092500     MOVE ST-DIST-CD TO DE-CD-8822-DEC.
092600     MOVE DI-CD-HLD TO HDR-DIST-CD.
092700     MOVE 0003 TO DE-NO-8801-DEC.
092800     FIND ANY CODE-DEC.
092900     MOVE DB-STATUS TO DB-STAT.
093000     IF NOT OK
093100         MOVE "UNKNOWN" TO HDR-DIST-NM
093200         GO TO 4050-EXIT-STD I.
093300     GET CODE-DEC.
093400     MOVE DB-STATUS TO DB-STAT.
093500     IF NOT OK
093600         DISPLAY "ES115PBD 5 DIDN'T GET STD I"
093700         DISPLAY "ES115PBD 6 " DB-STAT
093800         GO TO 4050-EXIT-STD I.
093900     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
094000     MOVE DB-STATUS TO DB-STAT.
094100     IF NOT OK
094200         MOVE "UNKNOWN" TO HDR-DIST-NM
094300         GO TO 4050-EXIT-STD I.
094400     GET CODE-EXPL-DECE.

```

```

094500     MOVE DB-STATUS TO DB-STAT.
094600     IF NOT OK
094700         DISPLAY "ES115PBD 7 DIDN'T GET DIST"
094800         DISPLAY "ES115PBD 8 " DB-STAT
094900         GO TO 4050-EXIT-STDI.
095000     MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HLD
095100     MOVE DIST-NM-HLD TO HDR-DIST-NM.
095200 4050-EXIT-STDI.
095300     EXIT.
095400 4100-CHK-LINE-CNT.
095500     IF LINE-CNT > 50
095600         PERFORM 4200-PRT-HDNG THRU 4250-HDNG-EXIT
095700         GO TO 4150-EXIT-LINE-OVR50.
095800 4150-EXIT-LINE-OVR50.
095900     EXIT.
096000 4200-PRT-HDNG.
096100     ADD 1 TO PAGE-CNT.
096200     MOVE PAGE-CNT TO HDR-PG.
096300     WRITE PRT-REC FROM HDR-1 AFTER ADVANCING PAGE.
096400     WRITE PRT-REC FROM HDR-2 AFTER ADVANCING 1 LINES.
096500     WRITE PRT-REC FROM HDR-3 AFTER ADVANCING 1 LINES.
096600     MOVE 2 TO LINE-CNT.
096700 4220-CHK-WHAT-REC.
096800     IF HLD-REC-TYPE = "V6"
096900         MOVE "V6" TO HDR-REC-TYPE
097000         WRITE PRT-REC FROM HDR-4 AFTER ADVANCING 1 LINES
097100         WRITE PRT-REC FROM HDR-5-V6 AFTER ADVANCING 2 LINES
097200         WRITE PRT-REC FROM HDR-6-V6 AFTER ADVANCING 1 LINES
097300         WRITE PRT-REC FROM HDR-7-V6 AFTER ADVANCING 1 LINES
097400         WRITE PRT-REC FROM HDR-8-V6 AFTER ADVANCING 1 LINES
097500         WRITE PRT-REC FROM HDR-9-V6 AFTER ADVANCING 1 LINES
097600         GO TO 4230-PRT-SPACES.
097700     IF HLD-REC-TYPE = "V7"
097800         MOVE "V7" TO HDR-REC-TYPE
097900         WRITE PRT-REC FROM HDR-4 AFTER ADVANCING 1 LINES
098000         WRITE PRT-REC FROM HDR-5-V7 AFTER ADVANCING 2 LINES
098100         WRITE PRT-REC FROM HDR-6-V7 AFTER ADVANCING 1 LINES
098200         WRITE PRT-REC FROM HDR-7-V7 AFTER ADVANCING 1 LINES
098300         WRITE PRT-REC FROM HDR-8-V7 AFTER ADVANCING 1 LINES
098400         WRITE PRT-REC FROM HDR-9-V7 AFTER ADVANCING 1 LINES
098500         GO TO 4230-PRT-SPACES.
098600     IF HLD-REC-TYPE = "VF"
098700         MOVE "VF" TO HDR-REC-TYPE
098800         WRITE PRT-REC FROM HDR-4 AFTER ADVANCING 1 LINES
098900         WRITE PRT-REC FROM HDR-5-VF AFTER ADVANCING 2 LINES
099000         WRITE PRT-REC FROM HDR-6-VF AFTER ADVANCING 1 LINES
099100         WRITE PRT-REC FROM HDR-7-VF AFTER ADVANCING 1 LINES
099200         WRITE PRT-REC FROM HDR-8-VF AFTER ADVANCING 1 LINES
099300         WRITE PRT-REC FROM HDR-9-VF AFTER ADVANCING 1 LINES
099400         GO TO 4230-PRT-SPACES.
099500     IF HLD-REC-TYPE = "VP"
099600         MOVE "VP" TO HDR-REC-TYPE
099700         WRITE PRT-REC FROM HDR-4 AFTER ADVANCING 1 LINES
099800         WRITE PRT-REC FROM HDR-5-VP AFTER ADVANCING 2 LINES
099900         WRITE PRT-REC FROM HDR-6-VP AFTER ADVANCING 1 LINES
100000         WRITE PRT-REC FROM HDR-7-VP AFTER ADVANCING 1 LINES
100100         WRITE PRT-REC FROM HDR-8-VP AFTER ADVANCING 1 LINES

```

```

100200      WRITE PRT-REC FROM HDR-9-VP AFTER ADVANCING 1 LINES
100300      GO TO 4230-PRT-SPACES.
100400      IF HLD-REC-TYPE = "VU"
100500      MOVE "VU" TO HDR-REC-TYPE
100600      WRITE PRT-REC FROM HDR-4 AFTER ADVANCING 1 LINES
100700      WRITE PRT-REC FROM HDR-5-VU AFTER ADVANCING 2 LINES
100800      WRITE PRT-REC FROM HDR-6-VU AFTER ADVANCING 1 LINES
100900      WRITE PRT-REC FROM HDR-7-VU AFTER ADVANCING 1 LINES
101000      WRITE PRT-REC FROM HDR-8-VU AFTER ADVANCING 1 LINES
101100      WRITE PRT-REC FROM HDR-9-VU AFTER ADVANCING 1 LINES.
101200 4230-PRT-SPACES.
101300      MOVE SPACES TO PRT-REC.
101400      WRITE PRT-REC AFTER ADVANCING 1 LINES.
101500      ADD 7 TO LINE-CNT.
101600 4250-HDNG-EXIT.
101700      EXIT.
101800 4300-DET-REC-LINE.
101900      IF REC-TYPE-3529-V6-S1 = HLD-REC-TYPE
102000      PERFORM 4400-PRNT-DET-LINE THRU 4450-EXIT-CHK-REC-TYP
102100      GO TO 4320-RET-SORT.
102200      IF REC-TYPE-3529-V6-S1 = "99" GO TO 4350-EXIT-RET.
102300      MOVE 66 TO LINE-CNT.
102400      MOVE 0 TO PAGE-CNT.
102500      MOVE REC-TYPE-3529-V6-S1 TO HLD-REC-TYPE.
102600      PERFORM 4400-PRNT-DET-LINE THRU 4450-EXIT-CHK-REC-TYP.
102700 4320-RET-SORT.
102800      RETURN SORT-FILE AT END MOVE 1 TO EOR-SWITCH
102900      MOVE "99" TO REC-TYPE-3529-V6-S1.
103000      IF (EOR-SWITCH = 1) GO TO 4350-EXIT-RET.
103100 4350-EXIT-RET.
103200      EXIT.
103300 4400-PRNT-DET-LINE.
103400      PERFORM 4100-CHK-LINE-CNT THRU 4150-EXIT-LINE-OVR50.
103500      IF HLD-REC-TYPE = "V6"
103600      PERFORM 4500-PRNT-V6 THRU 4800-EXIT-PRT-DET
103700      GO TO 4450-EXIT-CHK-REC-TYP.
103800      IF HLD-REC-TYPE = "V7"
103900      PERFORM 4550-PRNT-V7 THRU 4800-EXIT-PRT-DET
104000      GO TO 4450-EXIT-CHK-REC-TYP.
104100      IF HLD-REC-TYPE = "VF"
104200      PERFORM 4600-PRNT-VF THRU 4800-EXIT-PRT-DET
104300      GO TO 4450-EXIT-CHK-REC-TYP.
104400      IF HLD-REC-TYPE = "VP"
104500      PERFORM 4650-PRNT-VP THRU 4800-EXIT-PRT-DET
104600      GO TO 4450-EXIT-CHK-REC-TYP.
104700      IF HLD-REC-TYPE = "VU"
104800      PERFORM 4700-PRNT-VU THRU 4800-EXIT-PRT-DET
104900      GO TO 4450-EXIT-CHK-REC-TYP.
105000 4450-EXIT-CHK-REC-TYP.
105100      EXIT.
105200 4500-PRNT-V6.
105300      MOVE REC-TYPE-3529-V6-S1      TO REC-TYPE-3529-V6-P1.
105400      MOVE FMT-NO-3576-V6-S1      TO FMT-NO-3576-V6-P1.
105500      MOVE FMT-CD-3579-V6-S1      TO FMT-CD-3579-V6-P1.
105600      MOVE ADM-ST-0003-V6-S1      TO ADM-ST-0003-V6-P1.
105700      MOVE ADM-DI-0003-V6-S1      TO ADM-DI-0003-V6-P1.
105800      MOVE ADM-RA-0003-V6-S1      TO ADM-RA-0003-V6-P1.

```

```

105900 MOVE ADM-PU-0003-V6-S1 TO ADM-PU-0003-V6-P1.
106000 MOVE DATA-DT-6618-V6-S1 TO DATA-DT-6618-V6-P1.
106100 MOVE ACT-CD-7350-V6-S1 TO ACT-CD-7350-V6-P1.
106200 MOVE LINE-NO-3578-V6-S1 TO LINE-NO-3578-V6-P1.
106300 MOVE PLANT-CD-2646-V6-S1 TO PLANT-CD-2646-V6-P1.
106400 MOVE PHNO-STG-CD-3712-V6-S1 TO PHNO-STG-CD-3712-V6-P1.
106500 MOVE GRAMS-GRN-WGT-3941-V6-S1 TO GRAMS-GRN-WGT-3941-V6-P1.
106600 MOVE ADW-PCT-3546-V6-S1 TO ADW-PCT-3546-V6-P1.
106700 MOVE GRAMS-DRY-WGT-3942-V6-S1 TO GRAMS-DRY-WGT-3942-V6-P1.
106800 IF BA-DIMS-MIN-3533-V6-S1 NOT = SPACES
106900 MOVE BA-DIMS-MIN-RE-3533-V6-S1 TO
107000 BA-DIMS-MIN-RE-3533-V6-P1
107100 ELSE
107200 MOVE BA-DIMS-MIN-3533-V6-S1 TO BA-DIMS-MIN-3533-V6-P1.
107300 IF BA-DIMS-MAX-3533-V6-S1 NOT = SPACES
107400 MOVE BA-DIMS-MAX-RE-3533-V6-S1 TO
107500 BA-DIMS-MAX-RE-3533-V6-P1
107600 ELSE
107700 MOVE BA-DIMS-MAX-3533-V6-S1 TO BA-DIMS-MAX-3533-V6-P1.
107800 IF CRN-DIMS-MIN-3534-V6-S1 NOT = SPACES
107900 MOVE CRN-DIMS-MIN-RE-3534-V6-S1 TO
108000 CRN-DIMS-MIN-RE-3534-V6-P1
108100 ELSE
108200 MOVE CRN-DIMS-MIN-3534-V6-S1 TO CRN-DIMS-MIN-3534-V6-P1.
108300 IF CRN-DIMS-MAX-3534-V6-S1 NOT = SPACES
108400 MOVE CRN-DIMS-MAX-RE-3534-V6-S1 TO
108500 CRN-DIMS-MAX-RE-3534-V6-P1
108600 ELSE
108700 MOVE CRN-DIMS-MAX-3534-V6-S1 TO CRN-DIMS-MAX-3534-V6-P1.
108800 IF HGT-AVG-3504-V6-S1 NOT = SPACES
108900 MOVE HGT-AVG-RE-3504-V6-S1 TO HGT-AVG-RE-3504-V6-P1
109000 ELSE
109100 MOVE HGT-AVG-3504-V6-S1 TO HGT-AVG-3504-V6-P1.
109200 IF AVG-LDR-LGT-7313-V6-S1 NOT = SPACES
109300 MOVE AVG-LDR-LGT-RE-7313-V6-S1 TO
109400 AVG-LDR-LGT-RE-7313-V6-P1
109500 ELSE
109600 MOVE AVG-LDR-LGT-7313-V6-S1 TO AVG-LDR-LGT-7313-V6-P1.
109700 WRITE PRT-REC FROM HDR-10-DET-V6 AFTER ADVANCING 2 LINES.
109800 ADD 2 TO LINE-CNT.
109900 GO TO 4800-EXIT-PRT-DET.
110000 4550-PRNT-V7.
110100 MOVE REC-TYPE-3529-V7-S1 TO REC-TYPE-3529-V7-P1.
110200 MOVE FMT-NO-3576-V7-S1 TO FMT-NO-3576-V7-P1.
110300 MOVE FMT-CD-3579-V7-S1 TO FMT-CD-3579-V7-P1.
110400 MOVE ADM-ST-0003-V7-S1 TO ADM-ST-0003-V7-P1.
110500 MOVE ADM-DI-0003-V7-S1 TO ADM-DI-0003-V7-P1.
110600 MOVE ADM-RA-0003-V7-S1 TO ADM-RA-0003-V7-P1.
110700 MOVE ADM-PU-0003-V7-S1 TO ADM-PU-0003-V7-P1.
110800 MOVE DATA-DT-6618-V7-S1 TO DATA-DT-6618-V7-P1.
110900 MOVE ACT-CD-7350-V7-S1 TO ACT-CD-7350-V7-P1.
111000 MOVE LINE-NO-3578-V7-S1 TO LINE-NO-3578-V7-P1.
111100 MOVE PLANT-CD-2646-V7-S1 (1) TO PLANT-CD1-2646-V7-P1.
111200 MOVE PLANT-CD-2646-V7-S1 (2) TO PLANT-CD2-2646-V7-P1.
111300 MOVE PLANT-CD-2646-V7-S1 (3) TO PLANT-CD3-2646-V7-P1.
111400 MOVE PLANT-CD-2646-V7-S1 (4) TO PLANT-CD4-2646-V7-P1.
111500 MOVE PLANT-CD-2646-V7-S1 (5) TO PLANT-CD5-2646-V7-P1.

```

```

111600     MOVE PLANT-CD-2646-V7-S1 (6)   TO   PLANT-CD6-2646-V7-P1.
111700     MOVE PLANT-CD-2646-V7-S1 (7)   TO   PLANT-CD7-2646-V7-P1.
111800     MOVE PLANT-CD-2646-V7-S1 (8)   TO   PLANT-CD8-2646-V7-P1.
111900     MOVE PLANT-CD-2646-V7-S1 (9)   TO   PLANT-CD9-2646-V7-P1.
112000     WRITE PRT-REC FROM HDR-10-DET-V7 AFTER ADVANCING 2 LINES.
112100     ADD 2 TO LINE-CNT.
112200     GO TO 4800-EXIT-PRT-DET.
112300     4600-PRNT-VF.
112400     MOVE REC-TYPE-3529-VF-S1       TO   REC-TYPE-3529-VF-P1.
112500     MOVE FMT-NO-3576-VF-S1        TO   FMT-NO-3576-VF-P1.
112600     MOVE FMT-CD-3579-VF-S1        TO   FMT-CD-3579-VF-P1.
112700     MOVE ADM-ST-0003-VF-S1        TO   ADM-ST-0003-VF-P1.
112800     MOVE ADM-DI-0003-VF-S1        TO   ADM-DI-0003-VF-P1.
112900     MOVE DATA-DT-6618-VF-S1      TO   DATA-DT-6618-VF-P1.
113000     MOVE ACT-CD-7350-VF-S1        TO   ACT-CD-7350-VF-P1.
113100     MOVE LINE-NO-3578-VF-S1       TO   LINE-NO-3578-VF-P1.
113200     MOVE ANML-GRZG-CD-3929-VF-S1  TO   ANML-GRZG-CD-3929-VF-P1.
113300     PERFORM 4620-VALIDATE-ANML-CD THRU 4630-EXIT-ANML-CD.
113400     MOVE MON-FORG-RQMT-3551-VF-S1 TO   MON-FORG-RQMT-3551-VF-P1.
113500     PERFORM 4610-CHK-HGT-CLS THRU 4615-EXIT-HGT-CLS.
113600     WRITE PRT-REC FROM HDR-10-DET-VF AFTER ADVANCING 2 LINES.
113700     ADD 2 TO LINE-CNT.
113800     GO TO 4800-EXIT-PRT-DET.
113900     4610-CHK-HGT-CLS.
114000     IF ANML-HGT-CLS-CD-3548-VF-S1 = "1"
114100         MOVE SPACES TO ANML-HGT-3-4-3548-VF-P1
114200             ANML-HGT-4-7-3548-VF-P1
114300             ANML-HGT-7-OVR-3548-VF-P1
114400             MOVE "1" TO ANML-HGT-0-3-3548-VF-P1
114500             GO TO 4615-EXIT-HGT-CLS.
114600     IF ANML-HGT-CLS-CD-3548-VF-S1 = "2"
114700         MOVE SPACES TO ANML-HGT-0-3-3548-VF-P1
114800             ANML-HGT-4-7-3548-VF-P1
114900             ANML-HGT-7-OVR-3548-VF-P1
115000             MOVE "2" TO ANML-HGT-3-4-3548-VF-P1
115100             GO TO 4615-EXIT-HGT-CLS.
115200     IF ANML-HGT-CLS-CD-3548-VF-S1 = "3"
115300         MOVE SPACES TO ANML-HGT-0-3-3548-VF-P1
115400             ANML-HGT-3-4-3548-VF-P1
115500             ANML-HGT-7-OVR-3548-VF-P1
115600             MOVE "3" TO ANML-HGT-4-7-3548-VF-P1
115700             GO TO 4615-EXIT-HGT-CLS.
115800     IF ANML-HGT-CLS-CD-3548-VF-S1 = "4"
115900         MOVE SPACES TO ANML-HGT-0-3-3548-VF-P1
116000             ANML-HGT-3-4-3548-VF-P1
116100             ANML-HGT-4-7-3548-VF-P1
116200             MOVE "4" TO ANML-HGT-7-OVR-3548-VF-P1
116300             GO TO 4615-EXIT-HGT-CLS.
116400     4615-EXIT-HGT-CLS.
116500     EXIT.
116600     4620-VALIDATE-ANML-CD.
116700     MOVE ANML-GRZG-CD-3929-VF-S1 TO DE-CD-8822-DEC.
116800     MOVE 3929 TO DE-NO-8801-DEC.
116900     FIND ANY CODE-DEC.
117000     MOVE DB-STATUS TO DB-STAT.
117100     IF NOT OK
117200         MOVE "UNKNOWN" TO ANML-GRZG-NAME-VF-P1

```

```

117300      GO TO 4630-EXIT-ANML-CD.
117400      GET CODE-DEC.
117500      MOVE DB-STATUS TO DB-STAT.
117600      IF NOT OK
117700          DISPLAY "ES115PBD 9 DIDN'T GET SPECIES CD"
117800          DISPLAY "ES115PBD 10 " DB-STAT
117900          GO TO 4630-EXIT-ANML-CD.
118000      MOVE DE-CD-NAM-8823-DEC TO ANML-GRZG-NAME-VF-P1.
118100 4630-EXIT-ANML-CD.
118200      EXIT.
118300 4650-PRNT-VP.
118400      MOVE REC-TYPE-3529-VP-S1      TO REC-TYPE-3529-VP-P1.
118500      MOVE FMT-NO-3576-VP-S1      TO FMT-NO-3576-VP-P1.
118600      MOVE FMT-CD-3579-VP-S1      TO FMT-CD-3579-VP-P1.
118700      MOVE ADM-ST-0003-VP-S1      TO ADM-ST-0003-VP-P1.
118800      MOVE ADM-DI-0003-VP-S1      TO ADM-DI-0003-VP-P1.
118900      MOVE ADM-RA-0003-VP-S1      TO ADM-RA-0003-VP-P1.
119000      MOVE ADM-PU-0003-VP-S1      TO ADM-PU-0003-VP-P1.
119100      MOVE DATA-DT-6618-VP-S1    TO DATA-DT-6618-VP-P1.
119200      MOVE ACT-CD-7350-VP-S1      TO ACT-CD-7350-VP-P1.
119300      MOVE LINE-NO-3578-VP-S1     TO LINE-NO-3578-VP-P1.
119400      MOVE PLANT-CD-2646-VP-S1    TO PLANT-CD-2646-VP-P1.
119500      IF PHNO-ADJ-FCTR-3545-VP-S1 (1) NOT = SPACES
119600      MOVE PHNO-ADJ-FCTR-RE-3545-VP-S1 (1) TO
119700          PHNO-ADJ-FCTR1-3545-VP-P1
119800      ELSE
119900          MOVE PHNO-ADJ-FCTR-3545-VP-S1 (1) TO
120000              PHNO-ADJ-FCTR1-RE-3545-VP-P1.
120100      IF PHNO-ADJ-FCTR-3545-VP-S1 (2) NOT = SPACES
120200      MOVE PHNO-ADJ-FCTR-RE-3545-VP-S1 (2) TO
120300          PHNO-ADJ-FCTR2-3545-VP-P1
120400      ELSE
120500          MOVE PHNO-ADJ-FCTR-3545-VP-S1 (2) TO
120600              PHNO-ADJ-FCTR2-RE-3545-VP-P1.
120700      IF PHNO-ADJ-FCTR-3545-VP-S1 (3) NOT = SPACES
120800      MOVE PHNO-ADJ-FCTR-RE-3545-VP-S1 (3) TO
120900          PHNO-ADJ-FCTR3-3545-VP-P1
121000      ELSE
121100          MOVE PHNO-ADJ-FCTR-3545-VP-S1 (3) TO
121200              PHNO-ADJ-FCTR3-RE-3545-VP-P1.
121300      IF PHNO-ADJ-FCTR-3545-VP-S1 (4) NOT = SPACES
121400      MOVE PHNO-ADJ-FCTR-RE-3545-VP-S1 (4) TO
121500          PHNO-ADJ-FCTR4-3545-VP-P1
121600      ELSE
121700          MOVE PHNO-ADJ-FCTR-3545-VP-S1 (4) TO
121800              PHNO-ADJ-FCTR4-RE-3545-VP-P1.
121900      IF PHNO-ADJ-FCTR-3545-VP-S1 (5) NOT = SPACES
122000      MOVE PHNO-ADJ-FCTR-RE-3545-VP-S1 (5) TO
122100          PHNO-ADJ-FCTR5-3545-VP-P1
122200      ELSE
122300          MOVE PHNO-ADJ-FCTR-3545-VP-S1 (5) TO
122400              PHNO-ADJ-FCTR5-RE-3545-VP-P1.
122500      IF PHNO-ADJ-FCTR-3545-VP-S1 (6) NOT = SPACES
122600      MOVE PHNO-ADJ-FCTR-RE-3545-VP-S1 (6) TO
122700          PHNO-ADJ-FCTR6-3545-VP-P1
122800      ELSE
122900          MOVE PHNO-ADJ-FCTR-3545-VP-S1 (6) TO

```

```

123000          PHNO-ADJ-FCTR6-RE-3545-VP-P1.
123100  IF PHNO-ADJ-FCTR-3545-VP-S1 (7) NOT = SPACES
123200  MOVE PHNO-ADJ-FCTR-RE-3545-VP-S1 (7) TO
123300          PHNO-ADJ-FCTR7-3545-VP-P1
123400          ELSE
123500          MOVE PHNO-ADJ-FCTR-3545-VP-S1 (7) TO
123600          PHNO-ADJ-FCTR7-RE-3545-VP-P1.
123700  IF PHNO-ADJ-FCTR-3545-VP-S1 (8) NOT = SPACES
123800  MOVE PHNO-ADJ-FCTR-RE-3545-VP-S1 (8) TO
123900          PHNO-ADJ-FCTR8-3545-VP-P1
124000          ELSE
124100          MOVE PHNO-ADJ-FCTR-3545-VP-S1 (8) TO
124200          PHNO-ADJ-FCTR8-RE-3545-VP-P1.
124300  WRITE PRT-REC FROM HDR-10-DET-VP AFTER ADVANCING 2 LINES.
124400  ADD 2 TO LINE-CNT.
124500  GO TO 4800-EXIT-PRT-DET.
124600 4700-PRNT-VU.
124700  MOVE REC-TYPE-3529-VU-S1          TO REC-TYPE-3529-VU-P1.
124800  MOVE FMT-NO-3576-VU-S1          TO FMT-NO-3576-VU-P1.
124900  MOVE FMT-CD-3579-VU-S1          TO FMT-CD-3579-VU-P1.
125000  MOVE ADM-ST-0003-VU-S1          TO ADM-ST-0003-VU-P1.
125100  MOVE ADM-DI-0003-VU-S1          TO ADM-DI-0003-VU-P1.
125200  MOVE ADM-RA-0003-VU-S1          TO ADM-RA-0003-VU-P1.
125300  MOVE ADM-PU-0003-VU-S1          TO ADM-PU-0003-VU-P1.
125400  MOVE DATA-DT-6618-VU-S1        TO DATA-DT-6618-VU-P1.
125500  MOVE ACT-CD-7350-VU-S1          TO ACT-CD-7350-VU-P1.
125600  MOVE LINE-NO-3578-VU-S1        TO LINE-NO-3578-VU-P1.
125700  MOVE PLANT-CD-2646-VU-S1       TO PLANT-CD-2646-VU-P1.
125800  MOVE AUF-3928-VU-S1 (1)        TO AUF1-3928-VU-P1.
125900  MOVE AUF-3928-VU-S1 (2)        TO AUF2-3928-VU-P1.
126000  MOVE AUF-3928-VU-S1 (3)        TO AUF3-3928-VU-P1.
126100  MOVE AUF-3928-VU-S1 (4)        TO AUF4-3928-VU-P1.
126200  MOVE AUF-3928-VU-S1 (5)        TO AUF5-3928-VU-P1.
126300  MOVE ANML-GRZG-CD-3929-VU-S1  TO ANML-GRZG-CD-3929-VU-P1.
126400  MOVE DUF-3917-VU-S1            TO DUF-3917-VU-P1.
126500  MOVE PUF-3511-VU-S1 (1)        TO PUF1-3511-VU-P1.
126600  MOVE PUF-3511-VU-S1 (2)        TO PUF2-3511-VU-P1.
126700  MOVE PUF-3511-VU-S1 (3)        TO PUF3-3511-VU-P1.
126800  MOVE PUF-3511-VU-S1 (4)        TO PUF4-3511-VU-P1.
126900  MOVE PUF-3511-VU-S1 (5)        TO PUF5-3511-VU-P1.
127000  WRITE PRT-REC FROM HDR-10-DET-VU AFTER ADVANCING 2 LINES.
127100  ADD 2 TO LINE-CNT.
127200 4800-EXIT-PRT-DET.
127300  EXIT.
127400 DUMMY-SECTION.
127500 4830-DUMMY.
127600  EXIT.
127700 END-OF-JOB.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES120E.
000300*          EDIT/UPDATE OF PLANTS (PHENO/WEIGHTS), ANIMALS (FORAGE/US
000400*          FACTORS - V6, VF, VU, VP FORMATS.
000500*
000600 AUTHOR. RON BAKER.
000700 DATE-WRITTEN. 08/23/79.
000800 DATE-COMPILED.

```

000900 ENVIRONMENT DIVISION.  
001000 CONFIGURATION SECTION.  
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.  
001200 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.  
001300 INPUT-OUTPUT SECTION.  
001400 FILE-CONTROL.  
001500       SELECT FILE-D2                    ASSIGN TO D1  
001600            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
001700       SELECT FILE-D1                    ASSIGN TO I1  
001800            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
001900       SELECT FILE-P1                    ASSIGN TO P1  
002000            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
002100 DATA DIVISION.  
002200 SUB-SCHEMA SECTION.  
002300 DB CODVAL2 WITHIN BLMDIC.  
002400 FILE SECTION.  
002500 FD FILE-D1  
002600       CODE-SET IS GBCD  
002700       LABEL RECORDS ARE STANDARD  
002800       DATA RECORD IS FDR-D1.  
002900 01 FDR-D1        PIC X(66).  
003000 FD FILE-D2  
003100       CODE-SET IS GBCD  
003200       LABEL RECORDS ARE STANDARD  
003300       DATA RECORD IS FDR-D2.  
003400 01 FDR-D2        PIC X(66).  
003500 FD FILE-P1  
003600       CODE-SET IS GBCD  
003700       LABEL RECORDS ARE STANDARD  
003800       DATA RECORD IS FDR-P1.  
003900 01 FDR-P1        PIC X(132).  
004000 WORKING-STORAGE SECTION.  
004100 77 ADST-CD-FLG PIC 9 COMP-4.  
004200 77 DATA-DAT-CHG-FLG PIC 9 COMP-4.  
004300 77 DATA-DAT-FLG PIC 9 COMP-4 VALUE ZERO.  
004400 77 DIST-CD-FLG PIC 9 COMP-4.  
004500 77 FRC-FLG PIC 9 COMP-4.  
004600 77 INGR-FLG PIC 9 COMP-4.  
004700 77 KEY-FLG PIC 9 COMP-4.  
004800 77 ERR-FLG PIC 9 COMP-4 VALUE ZERO.  
004900 77 AST-FLG PIC 9 COMP-4 VALUE ZERO.  
005000 77 LIN-CHK PIC 99 COMP-4.  
005100 77 LIN-CNT PIC 99 COMP-4.  
005200 77 PHNO-CNT PIC 99 COMP-4.  
005300 77 LIN-FLG PIC 9 COMP-4 VALUE ZERO.  
005400 77 PAG-CNT PIC 999 COMP-4.  
005500 77 PUF-CNT PIC 999 COMP-4.  
005600 77 AUF-CNT PIC 999 COMP-4.  
005700 77 PLANT-CD-FLG PIC 9 COMP-4.  
005800 77 ANML-CD-FLG PIC 9 COMP-4.  
005900 77 PLANT-TYP-FLG PIC 9 COMP-4.  
006000 77 PLU-CD-FLG PIC 9 COMP-4.  
006100 77 RITE-HDR-FLG PIC 9 COMP-4.  
006200 77 RITE-KEY-FLG PIC 9 COMP-4.  
006300 77 TEST-SW PIC 9 VALUE 0 COMP-4.  
006400 77 HEAD-SW PIC 9 VALUE 0 COMP-4.  
006500 77 SUB PIC 99 COMP-4.



006600 77 REC-SUB PIC 99 COMP-4.  
006700 77 RASUB PIC 9 COMP-4.  
006800 77 PHNO-SUB PIC 9 COMP-4.  
006900 01 FDR-D1-WK.  
007000 03 CNTL-D1.  
007100 05 REC-TYP-D1 PIC XXXX.  
007200 05 SDRP-D1.  
007300 07 SDR-D1.  
007400 09 SD-D1.  
007500 11 ST-D1 PIC XX.  
007600 11 DIST-D1 PIC XX.  
007700 09 RA-D1 PIC XX.  
007800 07 PLU-D1 PIC XX.  
007900 05 DATE-D1 PIC X(6).  
008000 05 ACTN-D1 PIC X.  
008100 05 DIET-D1 PIC X.  
008200 03 DATA-D1 PIC X(46).  
008300 01 REC-TABLE.  
008400 03 FILLER PIC X(66) VALUE  
008500 "VP1DUT084806790901A0001ELSA 1122XXXX556677880099".  
008600 03 FILLER PIC X(66) VALUE  
008700 "VP1DUT089806790901A0002BADONE 11223344556677880099".  
008800 03 FILLER PIC X(66) VALUE  
008900 "VP1DUT084806790901A0003ELSA ".  
009000 03 FILLER PIC X(66) VALUE  
009100 "VP1DUT084806790901A0004ELSA 11223344556677880099".  
009200 03 FILLER PIC X(66) VALUE  
009300 "VP1DUT084806790901A0005ELSA 11223344556677880099".  
009400 03 FILLER PIC X(66) VALUE  
009500 "VP1DUT084806790901A0006ELSA 11223344556677880099".  
009600 03 FILLER PIC X(66) VALUE  
009700 "VP1DUT084806790901A0007ELSA 11223344556677880099".  
009800 03 FILLER PIC X(66) VALUE  
009900 "VP1DUT084806790901A0008ELSA 11223344556677880099".  
010000 03 FILLER PIC X(66) VALUE  
010100 "VP1DUT084806790901A0009ELSA 11223344556677880099".  
010200 03 FILLER PIC X(66) VALUE  
010300 "VP1DUT084806790901A0010ELSA 11223344556677880099".  
010400 03 FILLER PIC X(66) VALUE  
010500 "VP1DUT084806790901A0011ELSA 11223344556677880099".  
010600 03 FILLER PIC X(66) VALUE  
010700 "VP1DUT084806790901A0012ELSA 11223344556677880099".  
010800 03 FILLER PIC X(66) VALUE  
010900 "VP1DUT084806790901A0013ELSA 11223344556677880099".  
011000 03 FILLER PIC X(66) VALUE  
011100 "VP1DUT084806790901A0014ELSA 11223344556677880099".  
011200 03 FILLER PIC X(66) VALUE  
011300 "VP1DUT084806790901A0015ELSA 11223344556677880099".  
011400 03 FILLER PIC X(66) VALUE  
011500 "VP1DUT084806790901A0016ELSA 11223344556677880099".  
011600 03 FILLER PIC X(66) VALUE  
011700 "VP1DUT084806790901A0017ELSA 11223344556677880099".  
011800 03 FILLER PIC X(66) VALUE  
011900 "VP1DUT084806790901A0018ELSA 11223344556677880099".  
012000 03 FILLER PIC X(66) VALUE  
012100 "VP1DUT084806790901A0019ELSA 11223344556677880099".  
012200 03 FILLER PIC X(66) VALUE

012300 "VP1DUT084806790901A0020ELSA 11223344556677880099".  
012400 03 FILLER PIC X(66) VALUE  
012500 "VP1DUT084806790901A0021ELSA 11223344556677880099".  
012600 03 FILLER PIC X(66) VALUE  
012700 "VP1DUT084806790901A0022ELSA 11223344556677880099".  
012800 03 FILLER PIC X(66) VALUE  
012900 "VP1DUT084806790901A0023ELSA 11223344556677880099".  
013000 03 FILLER PIC X(66) VALUE  
013100 "VP1DUT084806790901A0024ELSA 11223344556677880099".  
013200 03 FILLER PIC X(66) VALUE  
013300 "VP1DUT084806790901A0025ELSA 11223344556677880099".  
013400 03 FILLER PIC X(66) VALUE  
013500 "VP1DUT084806790901A0026ELSA 11223344556677880099".  
013600 03 FILLER PIC X(66) VALUE  
013700 "VP1DUT084806790901A0027ELSA 11223344556677880099".  
013800 03 FILLER PIC X(58) VALUE  
013900 "V61DUT084806790901A0001ELSA 1004410000221234234545675678".  
014000 03 FILLER PIC X(8) VALUE "91234 ".  
014100 03 FILLER PIC X(58) VALUE  
014200 "V61DUT084806790901A0002SSSS 9004410000221234234545675678".  
014300 03 FILLER PIC X(8) VALUE "91234 ".  
014400 03 FILLER PIC X(58) VALUE  
014500 "V61DUT088806790901A0003ELSA 1004410000221234234545675678".  
014600 03 FILLER PIC X(8) VALUE "91234 ".  
014700 03 FILLER PIC X(58) VALUE  
014800 "V61DUT088806790901A0004ELSA 1004410000221234234545675678".  
014900 03 FILLER PIC X(8) VALUE "91234 ".  
015000 03 FILLER PIC X(58) VALUE  
015100 "V61DUT088806790901A0005ELSA 1004410000221234234545675678".  
015200 03 FILLER PIC X(8) VALUE "91234 ".  
015300 03 FILLER PIC X(58) VALUE  
015400 "V61DUT088806790901A0006ELSA 1004410000221234234545675678".  
015500 03 FILLER PIC X(8) VALUE "91234 ".  
015600 03 FILLER PIC X(58) VALUE  
015700 "V61DUT088806790901A0007ELSA 1004410000221234234545675678".  
015800 03 FILLER PIC X(8) VALUE "91234 ".  
015900 03 FILLER PIC X(58) VALUE  
016000 "V61DUT088806790901A0008ELSA 1004410000221234234545675678".  
016100 03 FILLER PIC X(8) VALUE "91234 ".  
016200 03 FILLER PIC X(58) VALUE  
016300 "V61DUT088806790901A0009ELSA 1004410000221234234545675678".  
016400 03 FILLER PIC X(8) VALUE "91234 ".  
016500 03 FILLER PIC X(58) VALUE  
016600 "V61DUT088806790901A0010ELSA 1004410000221234234545675678".  
016700 03 FILLER PIC X(8) VALUE "91234 ".  
016800 03 FILLER PIC X(58) VALUE  
016900 "V61DUT088806790901A0011ELSA 1004410000221234234545675678".  
017000 03 FILLER PIC X(8) VALUE "91234 ".  
017100 03 FILLER PIC X(58) VALUE  
017200 "V61DUT088806790901A0012ELSA 1004410000221234234545675678".  
017300 03 FILLER PIC X(8) VALUE "91234 ".  
017400 03 FILLER PIC X(58) VALUE  
017500 "V61DUT088806790901A0013ELSA 1004410000221234234545675678".  
017600 03 FILLER PIC X(8) VALUE "91234 ".  
017700 03 FILLER PIC X(58) VALUE  
017800 "V61DUT088806790901A0014ELSA 1004410000221234234545675678".  
017900 03 FILLER PIC X(8) VALUE "91234 ".

018000 03 FILLER PIC X(58) VALUE  
018100 "V61DUT088806790901A0015ELSA 1004410000221234234545675678".  
018200 03 FILLER PIC X(8) VALUE "91234 ".  
018300 03 FILLER PIC X(58) VALUE  
018400 "V61DUT088806790901A0016ELSA 1004410000221234234545675678".  
018500 03 FILLER PIC X(8) VALUE "91234 ".  
018600 03 FILLER PIC X(58) VALUE  
018700 "V61DUT088806790901A0017ELSA 1004410000221234234545675678".  
018800 03 FILLER PIC X(8) VALUE "91234 ".  
018900 03 FILLER PIC X(58) VALUE  
019000 "V61DUT088806790901A0018ELSA 1004410000221234234545675678".  
019100 03 FILLER PIC X(8) VALUE "91234 ".  
019200 03 FILLER PIC X(58) VALUE  
019300 "V61DUT088806790901A0019ELSA 1004410000221234234545675678".  
019400 03 FILLER PIC X(8) VALUE "91234 ".  
019500 03 FILLER PIC X(58) VALUE  
019600 "V61DUT088806790901A0020ELSA 1004410000221234234545675678".  
019700 03 FILLER PIC X(8) VALUE "91234 ".  
019800 03 FILLER PIC X(58) VALUE  
019900 "V61DUT088806790901A0021ELSA 1004410000221234234545675678".  
020000 03 FILLER PIC X(8) VALUE "91234 ".  
020100 03 FILLER PIC X(58) VALUE  
020200 "V61DUT088806790901A0022ELSA 1004410000221234234545675678".  
020300 03 FILLER PIC X(8) VALUE "91234 ".  
020400 03 FILLER PIC X(58) VALUE  
020500 "V61DUT088806790901A0023ELSA 1004410000221234234545675678".  
020600 03 FILLER PIC X(8) VALUE "91234 ".  
020700 03 FILLER PIC X(58) VALUE  
020800 "V61DUT088806790901A0024ELSA 1004410000221234234545675678".  
020900 03 FILLER PIC X(8) VALUE "91234 ".  
021000 03 FILLER PIC X(58) VALUE  
021100 "V61DUT088806790901A0025ELSA 1004410000221234234545675678".  
021200 03 FILLER PIC X(8) VALUE "91234 ".  
021300 03 FILLER PIC X(58) VALUE  
021400 "V61DUT088806790901A0026ELSA 1004410000221234234545675678".  
021500 03 FILLER PIC X(8) VALUE "91234 ".  
021600 03 FILLER PIC X(58) VALUE  
021700 "V61DUT088806790901A0027ELSA 1004410000221234234545675678".  
021800 03 FILLER PIC X(8) VALUE "91234 ".  
021900 03 FILLER PIC X(58) VALUE  
022000 "V61DUT088806790901A0028ELSA 1004410000221234234545675678".  
022100 03 FILLER PIC X(8) VALUE "91234 ".  
022200 03 FILLER PIC X(66) VALUE  
022300 "VF1DUT08 790901A0001CA12343".  
022400 03 FILLER PIC X(66) VALUE  
022500 "VF1DUT08 790901A0002ACAAAA9".  
022600 03 FILLER PIC X(66) VALUE  
022700 "VU1DUT084806790901AC0001BADONE 123456789123456CA00123456".  
022800 03 FILLER PIC X(66) VALUE  
022900 "VU1DUT084806790901AD0002PIED BAD 789123456AC00BB3456".  
023000 03 FILLER PIC X(66) VALUE  
023100 "VU1DUT084806790901AP0003ELSA 123456789123456CA00123456".  
023200 03 FILLER PIC X(66) VALUE  
023300 "END ".  
023400 03 FILLER PIC X(66) VALUE  
023500 "END ".  
023600 03 FILLER PIC X(66) VALUE



```

029700          15  BLM-ADM-U-0003-ST-VP-X          PIC X(2).
029800          15  BLM-ADM-U-0003-DIST-VP-X        PIC X(2).
029900          15  BLM-ADM-U-0003-RA-VP-X          PIC X(2).
030000          15  BLM-ADM-U-0003-PLU-VP-X         PIC X(2).
030100          10  DATA-DATE-6618-VP-X.
030200          15  DATA-DATE-6618-YY-VP-X        PIC X(2).
030300          15  DATA-DATE-6618-MM-VP-X        PIC X(2).
030400          15  DATA-DATE-6618-DD-VP-X        PIC X(2).
030500          10  ACTN-CD-7350-VP-X              PIC X(1).
030600          10  LIN-NUM-3578-VP-X              PIC X(4).
030700*- - - - -
030800          05  PLANT-CD-2646-VP-X              PIC X(7).
030900          05  PHNO-GP-VP-X          PIC X(32).
031000          05  PHNO-ADJ-GP-VP-X REDEFINES PHNO-GP-VP-X.
031100          07  PHNO-ADJ-VP-X OCCURS 8 TIMES.
031200          09  PHNO-ADJ-1-VP-X   PIC XX.
031300          09  PHNO-ADJ-2-VP-X   PIC XX.
031400          05  PHNO-ADJ-FCTR-3545-VP-X REDEFINES PHNO-GP-VP-X
031500          OCCURS 8 TIMES          PIC 99V99.
031600          05  PLANT-TYP-3590-VP-X   PIC X.
031700          05  FILLER                      PIC XXXX.
031900 01  REC-VP-Z.
032000          05  KEY-VP-Z.
032100          10  DIC-VP-Z.
032200          15  REC-TYP-3529-VP-Z          PIC X(2).
032300          15  FMT-NUM-3576-VP-Z          PIC X(1).
032400          15  FMT-CD-3579-VP-Z          PIC X(1).
032500          10  BLM-ADM-U-0003-VP-Z.
032600          15  BLM-ADM-U-0003-ST-VP-Z        PIC X(2).
032700          15  BLM-ADM-U-0003-DIST-VP-Z      PIC X(2).
032800          15  BLM-ADM-U-0003-RA-VP-Z        PIC X(2).
032900          15  BLM-ADM-U-0003-PLU-VP-Z      PIC X(2).
033000          10  DATA-DATE-6618-VP-Z.
033100          15  DATA-DATE-6618-YY-VP-Z      PIC X(2).
033200          15  DATA-DATE-6618-MM-VP-Z      PIC X(2).
033300          15  DATA-DATE-6618-DD-VP-Z      PIC X(2).
033400          10  ACTN-CD-7350-VP-Z            PIC X(1).
033500          10  LIN-NUM-3578-VP-Z            PIC X(4).
033600*- - - - -
033700          05  PLANT-CD-2646-VP-Z            PIC X(7).
033800          05  PHNO-GP-VP-Z          PIC X(32).
033900          05  PHNO-ADJ-GP-VP-Z REDEFINES PHNO-GP-VP-Z.
034000          07  PHNO-ADJ-VP-Z OCCURS 8 TIMES.
034100          09  PHNO-ADJ-1-VP-Z   PIC XX.
034200          09  PHNO-ADJ-2-VP-Z   PIC XX.
034300          05  PHNO-ADJ-FCTR-3545-VP-Z REDEFINES PHNO-GP-VP-Z
034400          OCCURS 8 TIMES          PIC 99V99.
034500          05  PLANT-TYP-3590-VP-Z   PIC X.
034600          05  FILLER                      PIC XXXX.
034700*****
034800*  "VU1D" DIET AND USE FACTORS BY ANIMAL AND SEASON.
035000 01  REC-VU-X.
035100          05  KEY-VU-X.
035200          10  DIC-VU-X.
035300          15  REC-TYP-3529-VU-X          PIC X(2).
035400          15  FMT-NUM-3576-VU-X          PIC X(1).
035500          15  FMT-CD-3579-VU-X          PIC X(1).

```

```

035600      10  BLM-ADM-U-0003-VU-X.
035700      15  BLM-ADM-U-0003-ST-VU-X          PIC X(2).
035800      15  BLM-ADM-U-0003-DIST-VU-X       PIC X(2).
035900      15  BLM-ADM-U-0003-RA-VU-X        PIC X(2).
036000      15  BLM-ADM-U-0003-PLU-VU-X       PIC X(2).
036100      10  DATA-DATE-6618-VU-X.
036200      15  DATA-DATE-6618-YY-VU-X       PIC X(2).
036300      15  DATA-DATE-6618-MM-VU-X       PIC X(2).
036400      15  DATA-DATE-6618-DD-VU-X       PIC X(2).
036500      10  ACTN-CD-7350-VU-X             PIC X(1).
036600      10  DIET-USE-TYP-3917-VU-X        PIC X(1).
036700      10  LIN-NUM-3578-VU-X            PIC X(4).
036800*- - - - -
036900      05  PLANT-CD-2646-VU-X             PIC X(7).
037000      05  AUF-3928-VU-X-RD          PIC X(15).
037100      05  AUF-3928-VU-X REDEFINES AUF-3928-VU-X-RD
037200                        OCCURS 5 TIMES    PIC XXX.
037300      05  ANML-GRZG-CD-3929-VU-X       PIC X(2).
037400      05  PUF-3511-VU-X-RD          PIC X(10).
037500      05  PUF-3511-VU-X REDEFINES PUF-3511-VU-X-RD
037600                        OCCURS 5 TIMES    PIC XX.
037700      05  PLANT-TYP-3590-VU-X          PIC X.
037800      05  FILLER                      PIC X(8).
037900 01  REC-VU-Z.
038000      05  KEY-VU-Z.
038100      10  DIC-VU-Z.
038200      15  REC-TYP-3529-VU-Z           PIC X(2).
038300      15  FMT-NUM-3576-VU-Z           PIC X(1).
038400      15  FMT-CD-3579-VU-Z           PIC X(1).
038500      10  BLM-ADM-U-0003-VU-Z.
038600      15  BLM-ADM-U-0003-ST-VU-Z       PIC X(2).
038700      15  BLM-ADM-U-0003-DIST-VU-Z     PIC X(2).
038800      15  BLM-ADM-U-0003-RA-VU-Z     PIC X(2).
038900      15  BLM-ADM-U-0003-PLU-VU-Z     PIC X(2).
039000      10  DATA-DATE-6618-VU-Z.
039100      15  DATA-DATE-6618-YY-VU-Z     PIC X(2).
039200      15  DATA-DATE-6618-MM-VU-Z     PIC X(2).
039300      15  DATA-DATE-6618-DD-VU-Z     PIC X(2).
039400      10  ACTN-CD-7350-VU-Z           PIC X(1).
039500      10  DIET-USE-TYP-3917-VU-Z     PIC X(1).
039600      10  LIN-NUM-3578-VU-Z           PIC X(4).
039700*- - - - -
039800      05  PLANT-CD-2646-VU-Z           PIC X(7).
039900      05  AUF-3928-VU-Z              OCCURS 5 TIMES PIC X(3).
040000      05  ANML-GRZG-CD-3929-VU-Z     PIC X(2).
040100      05  PUF-3511-VU-Z              OCCURS 5 TIMES PIC X(2).
040200      05  PLANT-TYP-3590-VU-Z        PIC X.
040300      05  FILLER                      PIC X(8).
040400*****
040500*  "V6" DRY/GREEN WEIGHT CONVERSION FACTOR DATA.
040700 01  REC-V6-X.
040800      05  KEY-V6-X.
040900      10  DIC-V6-X.
041000      15  REC-TYP-3529-V6-X           PIC X(2).
041100      15  FMT-NUM-3576-V6-X           PIC X(1).
041200      15  FMT-CD-3579-V6-X           PIC X(1).
041300      10  BLM-ADM-U-0003-V6-X.

```

041400		15	BLM-ADM-U-0003-ST-V6-X	PIC X(2).
041500		15	BLM-ADM-U-0003-DIST-V6-X	PIC X(2).
041600		15	BLM-ADM-U-0003-RA-V6-X	PIC X(2).
041700		15	BLM-ADM-U-0003-PLU-V6-X	PIC X(2).
041800	10		DATA-DATE-6618-V6-X.	
041900		15	DATA-DATE-6618-YY-V6-X	PIC X(2).
042000		15	DATA-DATE-6618-MM-V6-X	PIC X(2).
042100		15	DATA-DATE-6618-DD-V6-X	PIC X(2).
042200	10		ACTN-CD-7350-V6-X	PIC X(1).
042300	10		LIN-NUM-3578-V6-X	PIC X(4).
042400*	- - - - -		- - - - -	- - - - -
042500	05		PLANT-CD-2646-V6-X	PIC X(7).
042600	05		PHNO-STG-CD-3712-V6-X	PIC X(1).
042700	05		GRAMS-GRN-WGT-3941-V6-X	PIC X(4).
042800	05		ADW-PCT-3546-V6-X	PIC X(3).
042900	05		GRAMS-DRY-WGT-3942-V6-X	PIC X(4).
043000	05		GRP-1-V6-X.	
043100	07		BASAL-DIMS-3533-MIN-V6-X	PIC 99V99.
043200	07		BASAL-DIMS-3533-MAX-V6-X	PIC 99V99.
043300	07		CROWN-DIMS-3534-MIN-V6-X	PIC 99V9.
043400	07		CROWN-DIMS-3534-MAX-V6-X	PIC 99V9.
043500	07		HGT-AVG-3504-V6-X	PIC 999V9.
043600	07		AVG-LDR-LGT-7313-V6-X	PIC 99V9.
043700	05		GRP-1-RD-V6-X REDEFINES GRP-1-V6-X.	
043800	07		BASAL-DIMS-MIN-V6-X.	
043900	09		BAD-MIN-1-V6-X	PIC XX.
044000	09		BAD-MIN-2-V6-X	PIC XX.
044100	07		BASAL-DIMS-MAX-V6-X.	
044200	09		BAD-MAX-1-V6-X	PIC XX.
044300	09		BAD-MAX-2-V6-X	PIC XX.
044400	07		CROWN-DIMS-MIN-V6-X.	
044500	09		CRD-MIN-1-V6-X	PIC XX.
044600	09		CRD-MIN-2-V6-X	PIC X.
044700	07		CROWN-DIMS-MAX-V6-X.	
044800	09		CRD-MAX-1-V6-X	PIC XX.
044900	09		CRD-MAX-2-V6-X	PIC X.
045000	07		HGT-AVG-V6-X.	
045100	09		HGT-AVG-1-V6-X	PIC XXX.
045200	09		HGT-AVG-2-V6-X	PIC X.
045300	07		AVG-LDR-V6-X.	
045400	09		AVG-LDR-1-V6-X	PIC XX.
045500	09		AVG-LDR-2-V6-X	PIC X.
045600	05		PLANT-TYP-V6-X	PIC X.
045700	05		REC-CNT-V6-X	PIC 99.
045800	*****			
045900	01		REC-V6-Z.	
046000	05		KEY-V6-Z.	
046100	10		DIC-V6-Z.	
046200	15		REC-TYP-3529-V6-Z	PIC X(2).
046300	15		FMT-NUM-3576-V6-Z	PIC X(1).
046400	15		FMT-CD-3579-V6-Z	PIC X(1).
046500	10		BLM-ADM-U-0003-V6-Z.	
046600	15		BLM-ADM-U-0003-ST-V6-Z	PIC X(2).
046700	15		BLM-ADM-U-0003-DIST-V6-Z	PIC X(2).
046800	15		BLM-ADM-U-0003-RA-V6-Z	PIC X(2).
046900	15		BLM-ADM-U-0003-PLU-V6-Z	PIC X(2).
047000	10		DATA-DATE-6618-V6-Z.	

```

047100          15  DATA-DATE-6618-YY-V6-Z          PIC X(2).
047200          15  DATA-DATE-6618-MM-V6-Z          PIC X(2).
047300          15  DATA-DATE-6618-DD-V6-Z          PIC X(2).
047400          10  ACTN-CD-7350-V6-Z                 PIC X(1).
047500          10  LIN-NUM-3578-V6-Z                 PIC X(4).
047600*- - - - -
047700          05  PLANT-CD-2646-V6-Z                 PIC X(7).
047800          05  PHNO-STG-CD-3712-V6-Z             PIC X(1).
047900          05  GRAMS-GRN-WGT-3941-V6-Z           PIC X(4).
048000          05  ADW-PCT-3546-V6-Z                 PIC X(3).
048100          05  GRAMS-DRY-WGT-3942-V6-Z           PIC X(4).
048200          05  GRP-1-V6-Z.
048300          07  BASAL-DIMS-3533-MIN-V6-Z           PIC 99V99.
048400          07  BASAL-DIMS-3533-MAX-V6-Z           PIC 99V99.
048500          07  CROWN-DIMS-3534-MIN-V6-Z           PIC 99V9.
048600          07  CROWN-DIMS-3534-MAX-V6-Z           PIC 99V9.
048700          07  HGT-AVG-3504-V6-Z                 PIC 999V9.
048800          07  AVG-LDR-LGT-7313-V6-Z             PIC 99V9.
048900          05  GRP-1-RD-V6-Z REDEFINES GRP-1-V6-Z.
049000          07  BASAL-DIMS-MIN-V6-Z                 PIC XXXX.
049100          07  BASAL-DIMS-MAX-V6-Z                 PIC XXXX.
049200          07  CROWN-DIMS-MIN-V6-Z                 PIC XXX.
049300          07  CROWN-DIMS-MAX-V6-Z                 PIC XXX.
049400          07  HGT-AVG-V6-Z                       PIC XXXX.
049500          07  AVG-LDR-V6-Z                       PIC XXX.
049600          05  PLANT-TYP-V6-Z                       PIC X.
049700          05  REC-CNT-V6-Z                       PIC 99.
049800*****
049900 01 REC-1-VF-P.
050000          05  FILLER PIC X(17) VALUE SPACE.
050100          05  REC-VF-P PIC XXXX.
050200          05  FILLER PIC X(13) VALUE SPACE.
050300          05  ST-VF-P PIC XX.
050400          05  FILLER PIC X(14) VALUE SPACE.
050500          05  DIST-VF-P PIC XX.
050600          05  FILLER PIC X(11) VALUE SPACE.
050700          05  DATE-VF-P PIC X(6).
050800          05  FILLER PIC X(13) VALUE SPACE.
050900          05  ACTN-VF-P PIC X.
051000          05  FILLER PIC X(49) VALUE SPACE.
051100 01 REC-1-VF-AST.
051200          05  FILLER PIC X(17) VALUE SPACE.
051300          05  REC-VF-AST PIC XXXX.
051400          05  FILLER PIC X(13) VALUE SPACE.
051500          05  ST-VF-AST PIC XX.
051600          05  FILLER PIC X(14) VALUE SPACE.
051700          05  DIST-VF-AST PIC XX.
051800          05  FILLER PIC X(11) VALUE SPACE.
051900          05  DATE-VF-AST PIC X(6).
052000          05  FILLER PIC X(13) VALUE SPACE.
052100          05  ACTN-VF-AST PIC X.
052200          05  FILLER PIC X(49) VALUE SPACE.
052300 01 REC-2-VF-P.
052400          05  FILLER PIC X(8) VALUE SPACE.
052500          05  LINE-VF-P PIC XXXX.
052600          05  FILLER PIC X(8) VALUE SPACE.
052700          05  ANML-SP-VF-P PIC XX.

```



```

052800      05  FILLER          PIC X(8)          VALUE SPACE.
052900      05  MON-FORG-VF-P    PIC XXXX.
053000      05  FILLER          PIC X(14)         VALUE SPACE.
053100      05  HT-CLS-AV-VF-P   PIC X.
053200      05  FILLER          PIC X(83)         VALUE SPACE.
053300  01  REC-2-VF-AST.
053400      05  FILLER          PIC X(8)          VALUE SPACE.
053500      05  LINE-VF-AST     PIC XXXX.
053600      05  FILLER          PIC X(8)          VALUE SPACE.
053700      05  ANML-SP-VF-AST  PIC XX.
053800      05  FILLER          PIC X(8)          VALUE SPACE.
053900      05  MON-FORG-VF-AST  PIC XXXX.
054000      05  FILLER          PIC X(14)         VALUE SPACE.
054100      05  HT-CLS-AV-VF-AST PIC X.
054200      05  FILLER          PIC X(83)         VALUE SPACE.
054300*****
054400  01  REC-1-V6P-P.
054500      05  FILLER          PIC X(17)         VALUE SPACE.
054600      05  REC-V6P-P       PIC XXXX.
054700      05  FILLER          PIC X(13)         VALUE SPACE.
054800      05  ST-V6P-P        PIC XX.
054900      05  FILLER          PIC X(14)         VALUE SPACE.
055000      05  DIST-V6P-P      PIC XX.
055100      05  FILLER          PIC X(12)         VALUE SPACE.
055200      05  RA-V6P-P        PIC XX.
055300      05  FILLER          PIC X(15)         VALUE SPACE.
055400      05  PLU-V6P-P       PIC XX.
055500      05  FILLER          PIC X(13)         VALUE SPACE.
055600      05  DATE-V6P-P      PIC X(6).
055700      05  FILLER          PIC X(13)         VALUE SPACE.
055800      05  ACTN-V6P-P      PIC X.
055900      05  FILLER          PIC X(16)         VALUE SPACE.
056000  01  REC-1-V6P-AST.
056100      05  FILLER          PIC X(17)         VALUE SPACE.
056200      05  REC-V6P-AST     PIC XXXX.
056300      05  FILLER          PIC X(13)         VALUE SPACE.
056400      05  ST-V6P-AST     PIC XX.
056500      05  FILLER          PIC X(14)         VALUE SPACE.
056600      05  DIST-V6P-AST   PIC XX.
056700      05  FILLER          PIC X(12)         VALUE SPACE.
056800      05  RA-V6P-AST     PIC XX.
056900      05  FILLER          PIC X(15)         VALUE SPACE.
057000      05  PLU-V6P-AST    PIC XX.
057100      05  FILLER          PIC X(13)         VALUE SPACE.
057200      05  DATE-V6P-AST   PIC X(6).
057300      05  FILLER          PIC X(13)         VALUE SPACE.
057400      05  ACTN-V6P-AST   PIC X.
057500      05  FILLER          PIC X(16)         VALUE SPACE.
057600  01  REC-2-V6-P.
057700      05  FILLER          PIC X(5)          VALUE SPACE.
057800      05  LINE-V6-P       PIC XXXX.
057900      05  FILLER          PIC X(3)          VALUE SPACE.
058000      05  PLANT-CD-V6-P   PIC X(7).
058100      05  FILLER          PIC X(4)          VALUE SPACE.
058200      05  PHNO-V6-P      PIC X.
058300      05  FILLER          PIC X(6)          VALUE SPACE.
058400      05  GRN-WGT-V6-P    PIC XXXX.

```

```

058500      05  FILLER  PIC X(7)    VALUE SPACE.
058600      05  PCT-DW-V6-P      PIC XXX.
058700      05  FILLER  PIC X(7)    VALUE SPACE.
058800      05  DW-V6-P          PIC XXXX.
058900      05  FILLER  PIC X(7)    VALUE SPACE.
059000      05  MIN-BAD-V6-P1     PIC XX.
059100      05  MIN-BAD-V6-P2     PIC X.
059200      05  MIN-BAD-V6-P3     PIC XX.
059300      05  FILLER  PIC X(7)    VALUE SPACE.
059400      05  MAX-BAD-V6-P1     PIC XX.
059500      05  MAX-BAD-V6-P2     PIC X.
059600      05  MAX-BAD-V6-P3     PIC XX.
059700      05  FILLER  PIC X(10)   VALUE SPACE.
059800      05  MIN-CRND-V6-P1    PIC XX.
059900      05  MIN-CRND-V6-P2    PIC X.
060000      05  MIN-CRND-V6-P3    PIC X.
060100      05  FILLER  PIC X(10)   VALUE SPACE.
060200      05  MAX-CRND-V6-P1    PIC XX.
060300      05  MAX-CRND-V6-P2    PIC X.
060400      05  MAX-CRND-V6-P3    PIC X.
060500      05  FILLER  PIC X(5)    VALUE SPACE.
060600      05  HGT-V6-P1        PIC XXX.
060700      05  HGT-V6-P2        PIC X.
060800      05  HGT-V6-P3        PIC X.
060900      05  FILLER  PIC X(7)    VALUE SPACE.
061000      05  AVG-LDR-V6-P1     PIC XX.
061100      05  AVG-LDR-V6-P2     PIC X.
061200      05  AVG-LDR-V6-P3     PIC X.
061300      05  FILLER  PIC XX     VALUE SPACE.
061400      05  REC-CNT-V6-P      PIC 99.
061500  01  REC-2-V6-AST.
061600      05  FILLER          PIC X(5)    VALUE SPACE.
061700      05  LINE-V6-AST      PIC XXXX.
061800      05  FILLER  PIC X(3)    VALUE SPACE.
061900      05  PLANT-CD-V6-AST  PIC X(7).
062000      05  FILLER  PIC X(4)    VALUE SPACE.
062100      05  PHNO-V6-AST     PIC X.
062200      05  FILLER  PIC X(6)    VALUE SPACE.
062300      05  GRN-WGT-V6-AST   PIC XXXX.
062400      05  FILLER  PIC X(7)    VALUE SPACE.
062500      05  PCT-DW-V6-AST    PIC XXX.
062600      05  FILLER  PIC X(7)    VALUE SPACE.
062700      05  DW-V6-AST      PIC XXXX.
062800      05  FILLER  PIC X(7)    VALUE SPACE.
062900      05  MIN-BAD-V6-AST   PIC XXBXX.
063000      05  FILLER  PIC X(7)    VALUE SPACE.
063100      05  MAX-BAD-V6-AST   PIC XXBXX.
063200      05  FILLER  PIC X(10)   VALUE SPACE.
063300      05  MIN-CRND-V6-AST  PIC XXBX.
063400      05  FILLER  PIC X(10)   VALUE SPACE.
063500      05  MAX-CRND-V6-AST  PIC XXBX.
063600      05  FILLER  PIC X(5)    VALUE SPACE.
063700      05  HGT-V6-AST     PIC XXXBX.
063800      05  FILLER  PIC X(7)    VALUE SPACE.
063900      05  AVG-LDR-V6-AST  PIC XXBX.
064000      05  FILLER  PIC X(4)    VALUE SPACE.
064100 *****

```

```

064200 01 REC-2-VP-P.
064300 05 FILLER PIC X(8) VALUE SPACE.
064400 05 LINE-VP-P PIC XXXX.
064500 05 FILLER PIC X(8) VALUE SPACE.
064600 05 PLANT-CD-VP-P PIC X(7).
064700 05 FILLER PIC X(6) VALUE SPACE.
064800 05 PHNO-PCT-VP-P OCCURS 8 TIMES.
064900 07 PHNO-PCT-VP-P1 PIC XX.
065000 07 PHNO-PCT-VP-P2 PIC X.
065100 07 PHNO-PCT-VP-P3 PIC XX.
065200 07 FILLER PIC X(7).
065300 05 FILLER PIC XXX VALUE SPACE.
065400 01 REC-2-VP-AST.
065500 05 FILLER PIC X(8) VALUE SPACE.
065600 05 LINE-VP-AST PIC XXXX.
065700 05 FILLER PIC X(8) VALUE SPACE.
065800 05 PLANT-CD-VP-AST PIC X(7).
065900 05 FILLER PIC X(6) VALUE SPACE.
066000 05 PHNO-PCT-VP-AST OCCURS 8 TIMES PIC XXBX(9).
066100 05 FILLER PIC XXX VALUE SPACE.
066200 *****
066300 01 REC-1-VU-P.
066400 05 FILLER PIC X(12) VALUE SPACE.
066500 05 REC-VU-P PIC XXXX.
066600 05 FILLER PIC X(13) VALUE SPACE.
066700 05 ST-VU-P PIC XX.
066800 05 FILLER PIC X(14) VALUE SPACE.
066900 05 DIST-VU-P PIC XX.
067000 05 FILLER PIC X(12) VALUE SPACE.
067100 05 RA-VU-P PIC XX.
067200 05 FILLER PIC X(15) VALUE SPACE.
067300 05 PLU-VU-P PIC XX.
067400 05 FILLER PIC X(13) VALUE SPACE.
067500 05 DATE-VU-P PIC X(6).
067600 05 FILLER PIC X(13) VALUE SPACE.
067700 05 ACTN-VU-P PIC X.
067800 05 FILLER PIC X(10) VALUE SPACE.
067900 05 PUFDT-VU-P PIC X.
068000 05 FILLER PIC X(10) VALUE SPACE.
068100 01 REC-1-VU-AST.
068200 05 FILLER PIC X(12) VALUE SPACE.
068300 05 REC-VU-AST PIC XXXX.
068400 05 FILLER PIC X(13) VALUE SPACE.
068500 05 ST-VU-AST PIC XX.
068600 05 FILLER PIC X(14) VALUE SPACE.
068700 05 DIST-VU-AST PIC XX.
068800 05 FILLER PIC X(12) VALUE SPACE.
068900 05 RA-VU-AST PIC XX.
069000 05 FILLER PIC X(15) VALUE SPACE.
069100 05 PLU-VU-AST PIC XX.
069200 05 FILLER PIC X(13) VALUE SPACE.
069300 05 DATE-VU-AST PIC X(6).
069400 05 FILLER PIC X(13) VALUE SPACE.
069500 05 ACTN-VU-AST PIC X.
069600 05 FILLER PIC X(10) VALUE SPACE.
069700 05 PUFDT-VU-AST PIC X.
069800 05 FILLER PIC X(10) VALUE SPACE.

```

```

069900 01 REC-2-VU-P.
070000 05 FILLER PIC X(8) VALUE SPACE.
070100 05 LINE-VU-P PIC XXXX.
070200 05 FILLER PIC X(3) VALUE SPACE.
070300 05 PLANT-CD-VU-P PIC X(7).
070400 05 FILLER PIC X(4) VALUE SPACE.
070500 05 AUF-GP-P.
070600 07 PLNT-SPG-VU-P PIC XXX.
070700 07 FILLER PIC X(5) VALUE SPACE.
070800 07 PLNT-SUM-VU-P PIC XXX.
070900 07 FILLER PIC X(5) VALUE SPACE.
071000 07 PLNT-FAL-VU-P PIC XXX.
071100 07 FILLER PIC X(5) VALUE SPACE.
071200 07 PLNT-WIN-VU-P PIC XXX.
071300 07 FILLER PIC X(5) VALUE SPACE.
071400 07 PLNT-YRL-VU-P PIC XXX.
071500 07 FILLER PIC X(5) VALUE SPACE.
071600 05 AUF-GP-RD-P REDEFINES AUF-GP-P OCCURS 5 TIMES.
071700 07 AUF-PCT-VU-P PIC XXX.
071800 07 FILLER PIC XXXXX.
071900 05 FILLER PIC XXX.
072000 05 ANML-SP-VU-P PIC XX.
072100 05 FILLER PIC X(7) VALUE SPACE.
072200 05 PUF-GP-P.
072300 07 ANML-SPG-VU-P PIC XX.
072400 07 FILLER PIC X(7) VALUE SPACE.
072500 07 ANML-SUM-VU-P PIC XX.
072600 07 FILLER PIC X(7) VALUE SPACE.
072700 07 ANML-FAL-VU-P PIC XX.
072800 07 FILLER PIC X(7) VALUE SPACE.
072900 07 ANML-WIN-VU-P PIC XX.
073000 07 FILLER PIC X(7) VALUE SPACE.
073100 07 ANML-YRL-VU-P PIC XX.
073200 07 FILLER PIC X(7) VALUE SPACE.
073300 05 PUF-GP-RD-P REDEFINES PUF-GP-P OCCURS 5 TIMES.
073400 07 PUF-VU-P PIC XX.
073500 07 FILLER PIC X(7).
073600 05 FILLER PIC X(8) VALUE SPACE.
073700 *****
073800 01 REC-2-VU-AST.
073900 05 FILLER PIC X(8) VALUE SPACE.
074000 05 LINE-VU-AST PIC XXXX.
074100 05 FILLER PIC X(3) VALUE SPACE.
074200 05 PLANT-CD-VU-AST PIC X(7).
074300 05 FILLER PIC X(4) VALUE SPACE.
074400 05 AUF-GP-AST.
074500 07 PLNT-SPG-VU-AST PIC XXX.
074600 07 FILLER PIC X(5) VALUE SPACE.
074700 07 PLNT-SUM-VU-AST PIC XXX.
074800 07 FILLER PIC X(5) VALUE SPACE.
074900 07 PLNT-FAL-VU-AST PIC XXX.
075000 07 FILLER PIC X(5) VALUE SPACE.
075100 07 PLNT-WIN-VU-AST PIC XXX.
075200 07 FILLER PIC X(5) VALUE SPACE.
075300 07 PLNT-YRL-VU-AST PIC XXX.
075400 07 FILLER PIC X(5) VALUE SPACE.
075500 05 AUF-GP-RD-AST REDEFINES AUF-GP-AST OCCURS 5 TIMES.

```

```

075600      07  AUF-PCT-VU-AST  PIC XXX.
075700      07  FILLER      PIC XXXXX.
075800      05  FILLER      PIC XXX.
075900      05  ANML-SP-VU-AST  PIC XX.
076000      05  FILLER      PIC X(7)  VALUE SPACE.
076100      05  PUF-GP-AST.
076200      07  ANML-SPG-VU-AST  PIC XX.
076300      07  FILLER      PIC X(7)  VALUE SPACE.
076400      07  ANML-SUM-VU-AST  PIC XX.
076500      07  FILLER      PIC X(7)  VALUE SPACE.
076600      07  ANML-FAL-VU-AST  PIC XX.
076700      07  FILLER      PIC X(7)  VALUE SPACE.
076800      07  ANML-WIN-VU-AST  PIC XX.
076900      07  FILLER      PIC X(7)  VALUE SPACE.
077000      07  ANML-YRL-VU-AST  PIC XX.
077100      07  FILLER      PIC X(7)  VALUE SPACE.
077200      05  PUF-GP-RD-AST REDEFINES PUF-GP-AST OCCURS 5 TIMES.
077300      07  PUF-VU-AST  PIC XX.
077400      07  FILLER      PIC X(7).
077500      05  FILLER      PIC X(8)  VALUE SPACE.
077600*****
077700*01  REC-2-VU-AST.
077800*      05  FILLER      PIC X(8)  VALUE SPACE.
077900*      05  LINE-VP-AST  PIC XXXX.
078000*      05  FILLER      PIC X(3)  VALUE SPACE.
078100*      05  PLANT-CD-VU-AST  PIC X(7).
078200*      05  FILLER      PIC X(3)  VALUE SPACE.
078300*      05  PLNT-SPG-VU-AST  PIC XXX.
078400*      05  FILLER      PIC X(6)  VALUE SPACE.
078500*      05  PLNT-SUM-VU-AST  PIC XXX.
078600*      05  FILLER      PIC X(5)  VALUE SPACE.
078700*      05  PLNT-FAL-VU-AST  PIC XXX.
078800*      05  FILLER      PIC X(5)  VALUE SPACE.
078900*      05  PLNT-WIN-VU-AST  PIC XXX.
079000*      05  FILLER      PIC X(5)  VALUE SPACE.
079100*      05  PLNT-YRL-VU-AST  PIC XXX.
079200*      05  FILLER      PIC X(8)  VALUE SPACE.
079300*      05  ANML-SP-VU-AST  PIC XX.
079400*      05  FILLER      PIC X(7)  VALUE SPACE.
079500*      05  ANML-SPG-VU-AST  PIC XX.
079600*      05  FILLER      PIC X(7)  VALUE SPACE.
079700*      05  ANML-SUM-VU-AST  PIC XX.
079800*      05  FILLER      PIC X(7)  VALUE SPACE.
079900*      05  ANML-FAL-VU-AST  PIC XX.
080000*      05  FILLER      PIC X(7)  VALUE SPACE.
080100*      05  ANML-WIN-VU-AST  PIC XX.
080200*      05  FILLER      PIC X(7)  VALUE SPACE.
080300*      05  ANML-YRL-VU-AST  PIC XX.
080400*      05  FILLER      PIC X(15)  VALUE SPACE.
080500*****
080600 01  HDR-1.
080700      05  FILLER      PIC X(24)  VALUE "      PCN: ES120E  AS OF ".
080800      05  HDR-DD      PIC XX.
080900      05  FILLER      PIC X      VALUE SPACE.
081000      05  HDR-MMM      PIC XXX.
081100      05  FILLER      PIC X      VALUE SPACE.
081200      05  HDR-YR      PIC XX.

```

081300	05	FILLER	PIC X(09)	VALUE SPACES.
081400	05	FILLER	PIC X(48)	VALUE
081500		"USDI- BUR OF LAND MGT ECOLOGICAL SITE INVENTORY".		
081600	05	FILLER	PIC X(31)	VALUE SPACES.
081700	05	FILLER	PIC X(5)	VALUE "PAGE:".
081800	05	HDR-PG	PIC ZZZZZ9.	
081900	01	HDR-2.		
082000	05	FILLER	PIC X(17)	VALUE SPACES.
082100	05	FILLER	PIC X(8)	VALUE "STATE:".
082200	05	HDR-ST-NM	PIC X(10).	
082300	05	FILLER	PIC X(16)	VALUE SPACES.
082400	05	FILLER	PIC X(7)	VALUE "DIST:".
082500	05	HDR-DIST-NM	PIC X(15).	
082600	05	FILLER	PIC X(15)	VALUE SPACES.
082700	05	RMK-HDR-2	PIC X(22)	VALUE SPACE.
082800	05	FILLER	PIC X(17)	VALUE SPACES.
082900	01	HDR-3	PIC X(132).	
083000	01	HDR-4	PIC X(132).	
083100	01	VU-HDR-REC1.		
083200	03	FILLER	PIC X(10)	VALUE SPACE.
083300	03	FILLER	PIC X(7)	VALUE "REC TYP".
083400	03	FILLER	PIC X(12)	VALUE SPACE.
083500	03	FILLER	PIC X(2)	VALUE "ST".
083600	03	FILLER	PIC X(12)	VALUE SPACE.
083700	03	FILLER	PIC X(4)	VALUE "DIST".
083800	03	FILLER	PIC X(12)	VALUE SPACE.
083900	03	FILLER	PIC X(2)	VALUE "RA".
084000	03	FILLER	PIC X(14)	VALUE SPACE.
084100	03	FILLER	PIC X(3)	VALUE "PLU".
084200	03	FILLER	PIC X(14)	VALUE SPACE.
084300	03	FILLER	PIC X(4)	VALUE "DATE".
084400	03	FILLER	PIC X(12)	VALUE SPACE.
084500	03	FILLER	PIC X(4)	VALUE "ACTN".
084600	03	FILLER	PIC X(6)	VALUE SPACE.
084700	03	FILLER	PIC X(7)	VALUE "PUF/DPV".
084800	03	FILLER	PIC X(7)	VALUE SPACE.
084900	01	VU-HDR-REC2.		
085000	03	FILLER	PIC X(10)	VALUE SPACE.
085100	03	FILLER	PIC X(7)	VALUE " 1-4 ".
085200	03	FILLER	PIC X(11)	VALUE SPACE.
085300	03	FILLER	PIC X(3)	VALUE "5-6".
085400	03	FILLER	PIC X(13)	VALUE SPACE.
085500	03	FILLER	PIC X(3)	VALUE "7-8".
085600	03	FILLER	PIC X(11)	VALUE SPACE.
085700	03	FILLER	PIC X(4)	VALUE "9-10".
085800	03	FILLER	PIC X(12)	VALUE SPACE.
085900	03	FILLER	PIC X(5)	VALUE "11-12".
086000	03	FILLER	PIC X(12)	VALUE SPACE.
086100	03	FILLER	PIC X(5)	VALUE "13-18".
086200	03	FILLER	PIC X(12)	VALUE SPACE.
086300	03	FILLER	PIC X(4)	VALUE " 19 ".
086400	03	FILLER	PIC X(6)	VALUE SPACE.
086500	03	FILLER	PIC X(7)	VALUE " 20 ".
086600	03	FILLER	PIC X(7)	VALUE SPACE.
086700	01	VU-HDR-REC3.		
086800	03	FILLER	PIC X(10)	VALUE SPACE.
086900	03	FILLER	PIC X(7)	VALUE " XXXX ".

087000	03	FILLER	PIC X(11)	VALUE SPACE.
087100	03	FILLER	PIC X(3)	VALUE " XX".
087200	03	FILLER	PIC X(13)	VALUE SPACE.
087300	03	FILLER	PIC X(3)	VALUE " XX".
087400	03	FILLER	PIC X(11)	VALUE SPACE.
087500	03	FILLER	PIC X(4)	VALUE " XX ".
087600	03	FILLER	PIC X(12)	VALUE SPACE.
087700	03	FILLER	PIC X(5)	VALUE " XX ".
087800	03	FILLER	PIC X(12)	VALUE SPACE.
087900	03	FILLER	PIC X(6)	VALUE "XXXXXX".
088000	03	FILLER	PIC X(12)	VALUE SPACE.
088100	03	FILLER	PIC X(4)	VALUE " X ".
088200	03	FILLER	PIC X(6)	VALUE SPACE.
088300	03	FILLER	PIC X(7)	VALUE " X ".
088400	03	FILLER	PIC X(7)	VALUE SPACE.
088500	01	VF-HDR-REC1.		
088600	03	FILLER	PIC X(15)	VALUE SPACE.
088700	03	FILLER	PIC X(7)	VALUE "REC TYP".
088800	03	FILLER	PIC X(12)	VALUE SPACE.
088900	03	FILLER	PIC X(2)	VALUE "ST".
089000	03	FILLER	PIC X(12)	VALUE SPACE.
089100	03	FILLER	PIC X(4)	VALUE "DIST".
089200	03	FILLER	PIC X(12)	VALUE SPACE.
089300	03	FILLER	PIC X(4)	VALUE "DATE".
089400	03	FILLER	PIC X(12)	VALUE SPACE.
089500	03	FILLER	PIC X(4)	VALUE "ACTN".
089600	03	FILLER	PIC X(50)	VALUE SPACE.
089700	01	VF-HDR-REC2.		
089800	03	FILLER	PIC X(15)	VALUE SPACE.
089900	03	FILLER	PIC X(7)	VALUE " 1-4 ".
090000	03	FILLER	PIC X(11)	VALUE SPACE.
090100	03	FILLER	PIC X(3)	VALUE "5-6".
090200	03	FILLER	PIC X(13)	VALUE SPACE.
090300	03	FILLER	PIC X(3)	VALUE "7-8".
090400	03	FILLER	PIC X(11)	VALUE SPACE.
090500	03	FILLER	PIC X(5)	VALUE "13-18".
090600	03	FILLER	PIC X(12)	VALUE SPACE.
090700	03	FILLER	PIC X(4)	VALUE " 19 ".
090800	03	FILLER	PIC X(50)	VALUE SPACE.
090900	01	VF-HDR-REC3.		
091000	03	FILLER	PIC X(15)	VALUE SPACE.
091100	03	FILLER	PIC X(7)	VALUE " XXXX ".
091200	03	FILLER	PIC X(11)	VALUE SPACE.
091300	03	FILLER	PIC X(3)	VALUE " XX".
091400	03	FILLER	PIC X(13)	VALUE SPACE.
091500	03	FILLER	PIC X(3)	VALUE " XX".
091600	03	FILLER	PIC X(11)	VALUE SPACE.
091700	03	FILLER	PIC X(6)	VALUE "XXXXXX".
091800	03	FILLER	PIC X(11)	VALUE SPACE.
091900	03	FILLER	PIC X(4)	VALUE " X ".
092000	03	FILLER	PIC X(48)	VALUE SPACE.
092100	01	V6P-HDR-REC1.		
092200	03	FILLER	PIC X(15)	VALUE SPACE.
092300	03	FILLER	PIC X(7)	VALUE "REC TYP".
092400	03	FILLER	PIC X(12)	VALUE SPACE.
092500	03	FILLER	PIC X(2)	VALUE "ST".
092600	03	FILLER	PIC X(12)	VALUE SPACE.

092700	03	FILLER	PIC X(4)	VALUE "DIST".
092800	03	FILLER	PIC X(12)	VALUE SPACE.
092900	03	FILLER	PIC X(2)	VALUE "RA".
093000	03	FILLER	PIC X(14)	VALUE SPACE.
093100	03	FILLER	PIC X(3)	VALUE "PLU".
093200	03	FILLER	PIC X(14)	VALUE SPACE.
093300	03	FILLER	PIC X(4)	VALUE "DATE".
093400	03	FILLER	PIC X(12)	VALUE SPACE.
093500	03	FILLER	PIC X(4)	VALUE "ACTN".
093600	03	FILLER	PIC X(15)	VALUE SPACE.
093700	01	V6P-HDR-REC2.		
093800	03	FILLER	PIC X(15)	VALUE SPACE.
093900	03	FILLER	PIC X(7)	VALUE " 1-4 ".
094000	03	FILLER	PIC X(11)	VALUE SPACE.
094100	03	FILLER	PIC X(3)	VALUE "5-6".
094200	03	FILLER	PIC X(13)	VALUE SPACE.
094300	03	FILLER	PIC X(3)	VALUE "7-8".
094400	03	FILLER	PIC X(11)	VALUE SPACE.
094500	03	FILLER	PIC X(4)	VALUE "9-10".
094600	03	FILLER	PIC X(12)	VALUE SPACE.
094700	03	FILLER	PIC X(5)	VALUE "11-12".
094800	03	FILLER	PIC X(12)	VALUE SPACE.
094900	03	FILLER	PIC X(5)	VALUE "13-18".
095000	03	FILLER	PIC X(12)	VALUE SPACE.
095100	03	FILLER	PIC X(4)	VALUE " 19 ".
095200	03	FILLER	PIC X(20)	VALUE SPACE.
095300	01	V6P-HDR-REC3.		
095400	03	FILLER	PIC X(15)	VALUE SPACE.
095500	03	FILLER	PIC X(7)	VALUE " XXXX ".
095600	03	FILLER	PIC X(11)	VALUE SPACE.
095700	03	FILLER	PIC X(3)	VALUE " XX ".
095800	03	FILLER	PIC X(13)	VALUE SPACE.
095900	03	FILLER	PIC X(3)	VALUE " XX ".
096000	03	FILLER	PIC X(11)	VALUE SPACE.
096100	03	FILLER	PIC X(5)	VALUE " XX ".
096200	03	FILLER	PIC X(12)	VALUE SPACE.
096300	03	FILLER	PIC X(5)	VALUE " XX ".
096400	03	FILLER	PIC X(11)	VALUE SPACE.
096500	03	FILLER	PIC X(6)	VALUE "XXXXXX".
096600	03	FILLER	PIC X(11)	VALUE SPACE.
096700	03	FILLER	PIC X(4)	VALUE " X ".
096800	03	FILLER	PIC X(20)	VALUE SPACE.
096900	*****			
097000	*****			
097100	*****			
097200	01	VF-HDR-REC4.		
097300	03	FILLER	PIC X(6)	VALUE SPACE.
097400	03	FILLER	PIC X(7)	VALUE "LIN NUM".
097500	03	FILLER	PIC X(4)	VALUE SPACE.
097600	03	FILLER	PIC X(7)	VALUE "ANML SP".
097700	03	FILLER	PIC XXXX	VALUE SPACE.
097800	03	FILLER	PIC X(8)	VALUE "MON FORG".
097900	03	FILLER	PIC XXXX	VALUE SPACE.
098000	03	FILLER	PIC X(14)	VALUE "HT-CLASS AVAIL".
098100	03	FILLER	PIC X(78)	VALUE SPACE.
098200	01	VF-HDR-REC5.		
098300	03	FILLER	PIC X(6)	VALUE SPACE.



098400 03 FILLER PIC X(7) VALUE " 20-23 ".  
098500 03 FILLER PIC X(4) VALUE SPACE.  
098600 03 FILLER PIC X(7) VALUE " 24-25 ".  
098700 03 FILLER PIC XXXX VALUE SPACE.  
098800 03 FILLER PIC X(8) VALUE " 26-29 ".  
098900 03 FILLER PIC XXXX VALUE SPACE.  
099000 03 FILLER PIC X(14) VALUE " 30 ".  
099100 03 FILLER PIC X(78) VALUE SPACE.  
099200 01 VF-HDR-REC6.  
099300 03 FILLER PIC X(6) VALUE SPACE.  
099400 03 FILLER PIC X(7) VALUE " XXXX ".  
099500 03 FILLER PIC X(4) VALUE SPACE.  
099600 03 FILLER PIC X(7) VALUE " XX ".  
099700 03 FILLER PIC XXXX VALUE SPACE.  
099800 03 FILLER PIC X(8) VALUE " XXXX ".  
099900 03 FILLER PIC XXXX VALUE SPACE.  
100000 03 FILLER PIC X(14) VALUE " X ".  
100100 03 FILLER PIC X(78) VALUE SPACE.  
100200 01 VU-HDR-REC4.  
100300 03 FILLER PIC X(6) VALUE SPACE.  
100400 03 FILLER PIC X(7) VALUE "LIN NUM".  
100500 03 FILLER PIC X(2) VALUE SPACE.  
100600 03 FILLER PIC X(7) VALUE " PLANT ".  
100700 03 FILLER PIC X(2) VALUE SPACE.  
100800 03 FILLER PIC X(6) VALUE "SPRING".  
100900 03 FILLER PIC X(3) VALUE SPACE.  
101000 03 FILLER PIC X(6) VALUE "SUMMER".  
101100 03 FILLER PIC X(2) VALUE SPACE.  
101200 03 FILLER PIC X(5) VALUE " FALL".  
101300 03 FILLER PIC X(2) VALUE SPACE.  
101400 03 FILLER PIC X(6) VALUE "WINTER".  
101500 03 FILLER PIC X(2) VALUE SPACE.  
101600 03 FILLER PIC X(7) VALUE "YR LONG".  
101700 03 FILLER PIC X(3) VALUE SPACE.  
101800 03 FILLER PIC X(7) VALUE "ANML SP".  
101900 03 FILLER PIC X(3) VALUE SPACE.  
102000 03 FILLER PIC X(6) VALUE "SPRING".  
102100 03 FILLER PIC X(3) VALUE SPACE.  
102200 03 FILLER PIC X(6) VALUE "SUMMER".  
102300 03 FILLER PIC X(4) VALUE SPACE.  
102400 03 FILLER PIC X(5) VALUE " FALL".  
102500 03 FILLER PIC X(3) VALUE SPACE.  
102600 03 FILLER PIC X(6) VALUE "WINTER".  
102700 03 FILLER PIC X(3) VALUE SPACE.  
102800 03 FILLER PIC X(7) VALUE "YR LONG".  
102900 03 FILLER PIC X(7) VALUE SPACE.  
103000 01 VU-HDR-REC5.  
103100 03 FILLER PIC X(6) VALUE SPACE.  
103200 03 FILLER PIC X(7) VALUE " 21-24 ".  
103300 03 FILLER PIC X(2) VALUE SPACE.  
103400 03 FILLER PIC X(7) VALUE " 25-31 ".  
103500 03 FILLER PIC X(2) VALUE SPACE.  
103600 03 FILLER PIC X(6) VALUE " 32-34".  
103700 03 FILLER PIC X(3) VALUE SPACE.  
103800 03 FILLER PIC X(6) VALUE "35-37 ".  
103900 03 FILLER PIC X(2) VALUE SPACE.  
104000 03 FILLER PIC X(5) VALUE "38-40".

```

104100      03  FILLER  PIC X(2)  VALUE SPACE.
104200      03  FILLER  PIC X(6)  VALUE " 41-43".
104300      03  FILLER  PIC X(2)  VALUE SPACE.
104400      03  FILLER  PIC X(7)  VALUE " 44-46 ".
104500      03  FILLER  PIC X(3)  VALUE SPACE.
104600      03  FILLER  PIC X(7)  VALUE " 47-48 ".
104700      03  FILLER  PIC X(3)  VALUE SPACE.
104800      03  FILLER  PIC X(6)  VALUE " 49-50".
104900      03  FILLER  PIC X(3)  VALUE SPACE.
105000      03  FILLER  PIC X(6)  VALUE " 51-52".
105100      03  FILLER  PIC X(4)  VALUE SPACE.
105200      03  FILLER  PIC X(5)  VALUE "53-54".
105300      03  FILLER  PIC X(3)  VALUE SPACE.
105400      03  FILLER  PIC X(6)  VALUE " 55-56".
105500      03  FILLER  PIC X(3)  VALUE SPACE.
105600      03  FILLER  PIC X(7)  VALUE " 57-58 ".
105700      03  FILLER  PIC X(7)  VALUE SPACE.
105800*****
105900 01  VU-HDR-REC6.
106000      03  FILLER  PIC X(6)  VALUE SPACE.
106100      03  FILLER  PIC X(7)  VALUE "  XXXX ".
106200      03  FILLER  PIC X(2)  VALUE SPACE.
106300      03  FILLER  PIC X(7)  VALUE "XXXXXXXX".
106400      03  FILLER  PIC X(2)  VALUE SPACE.
106500      03  FILLER  PIC X(6)  VALUE "  XXX ".
106600      03  FILLER  PIC X(3)  VALUE SPACE.
106700      03  FILLER  PIC X(6)  VALUE "  XXX ".
106800      03  FILLER  PIC X(2)  VALUE SPACE.
106900      03  FILLER  PIC X(5)  VALUE "  XXX ".
107000      03  FILLER  PIC X(2)  VALUE SPACE.
107100      03  FILLER  PIC X(6)  VALUE "  XXX ".
107200      03  FILLER  PIC X(2)  VALUE SPACE.
107300      03  FILLER  PIC X(7)  VALUE "  XXX ".
107400      03  FILLER  PIC X(3)  VALUE SPACE.
107500      03  FILLER  PIC X(7)  VALUE "  XX  ".
107600      03  FILLER  PIC X(3)  VALUE SPACE.
107700      03  FILLER  PIC X(6)  VALUE "  XX  ".
107800      03  FILLER  PIC X(3)  VALUE SPACE.
107900      03  FILLER  PIC X(6)  VALUE "  XX  ".
108000      03  FILLER  PIC X(3)  VALUE SPACE.
108100      03  FILLER  PIC X(6)  VALUE "  XX  ".
108200      03  FILLER  PIC X(3)  VALUE SPACE.
108300      03  FILLER  PIC X(6)  VALUE "  XX  ".
108400      03  FILLER  PIC X(3)  VALUE SPACE.
108500      03  FILLER  PIC X(7)  VALUE "  XX  ".
108600      03  FILLER  PIC X(3)  VALUE SPACE.
108700      03  FILLER  PIC X(14) VALUE SPACE.
108800*****
108900 01  V6-HDR-REC4.
109000      03  FILLER  PIC X(3)  VALUE SPACE.
109100      03  FILLER  PIC X(7)  VALUE "LIN NUM".
109200      03  FILLER  PIC X(2)  VALUE SPACE.
109300      03  FILLER  PIC X(7)  VALUE "  PLANT ".
109400      03  FILLER  PIC X(2)  VALUE SPACE.
109500      03  FILLER  PIC X(4)  VALUE "PHNO".
109600      03  FILLER  PIC X(3)  VALUE SPACE.
109700      03  FILLER  PIC X(7)  VALUE "GRN WGT".

```

```

109800      03  FILLER  PIC X(3)  VALUE SPACE.
109900      03  FILLER  PIC X(8)  VALUE "%DRY WGT".
110000      03  FILLER  PIC X(3)  VALUE SPACE.
110100      03  FILLER  PIC X(7)  VALUE "DRY WGT".
110200      03  FILLER  PIC X(3)  VALUE SPACE.
110300      03  FILLER  PIC X(10) VALUE "MIN BA-DIA".
110400      03  FILLER  PIC X(3)  VALUE SPACE.
110500      03  FILLER  PIC X(10) VALUE "MAX BA-DIA".
110600      03  FILLER  PIC X(3)  VALUE SPACE.
110700      03  FILLER  PIC X(11) VALUE "MIN CRN-DIA".
110800      03  FILLER  PIC X(3)  VALUE SPACE.
110900      03  FILLER  PIC X(11) VALUE "MAX CRN-DIA".
111000      03  FILLER  PIC X(2)  VALUE SPACE.
111100      03  FILLER  PIC X(5)  VALUE " HGT ".
111200      03  FILLER  PIC X(2)  VALUE SPACE.
111300      03  FILLER  PIC X(13) VALUE "AVG LDR  CNT".
111400 01  V6-HDR-REC5.
111500      03  FILLER  PIC X(3)  VALUE SPACE.
111600      03  FILLER  PIC X(7)  VALUE " 20-23 ".
111700      03  FILLER  PIC X(2)  VALUE SPACE.
111800      03  FILLER  PIC X(7)  VALUE " 24-30 ".
111900      03  FILLER  PIC X(2)  VALUE SPACE.
112000      03  FILLER  PIC X(4)  VALUE " 31 ".
112100      03  FILLER  PIC X(3)  VALUE SPACE.
112200      03  FILLER  PIC X(7)  VALUE " 32-35 ".
112300      03  FILLER  PIC X(3)  VALUE SPACE.
112400      03  FILLER  PIC X(8)  VALUE " 36-38 ".
112500      03  FILLER  PIC X(3)  VALUE SPACE.
112600      03  FILLER  PIC X(7)  VALUE " 39-42 ".
112700      03  FILLER  PIC X(3)  VALUE SPACE.
112800      03  FILLER  PIC X(10) VALUE " 43-46 ".
112900      03  FILLER  PIC X(3)  VALUE SPACE.
113000      03  FILLER  PIC X(10) VALUE " 47-50 ".
113100      03  FILLER  PIC X(3)  VALUE SPACE.
113200      03  FILLER  PIC X(11) VALUE " 51-53 ".
113300      03  FILLER  PIC X(3)  VALUE SPACE.
113400      03  FILLER  PIC X(11) VALUE " 54-56 ".
113500      03  FILLER  PIC X(2)  VALUE SPACE.
113600      03  FILLER  PIC X(5)  VALUE "57-60".
113700      03  FILLER  PIC X(2)  VALUE SPACE.
113800      03  FILLER  PIC X(13) VALUE "61-63 65-66".
113900 01  V6-HDR-REC6.
114000      03  FILLER  PIC X(3)  VALUE SPACE.
114100      03  FILLER  PIC X(7)  VALUE " XXXX ".
114200      03  FILLER  PIC X(2)  VALUE SPACE.
114300      03  FILLER  PIC X(7)  VALUE "XXXXXXXX".
114400      03  FILLER  PIC X(2)  VALUE SPACE.
114500      03  FILLER  PIC X(4)  VALUE " X ".
114600      03  FILLER  PIC X(3)  VALUE SPACE.
114700      03  FILLER  PIC X(7)  VALUE " XXXX ".
114800      03  FILLER  PIC X(3)  VALUE SPACE.
114900      03  FILLER  PIC X(8)  VALUE " XXX ".
115000      03  FILLER  PIC X(3)  VALUE SPACE.
115100      03  FILLER  PIC X(7)  VALUE " XXXX ".
115200      03  FILLER  PIC X(3)  VALUE SPACE.
115300      03  FILLER  PIC X(10) VALUE " XX XX ".
115400      03  FILLER  PIC X(3)  VALUE SPACE.

```

115500	03	FILLER	PIC X(10)	VALUE " XX XX "	.
115600	03	FILLER	PIC X(4)	VALUE SPACE.	
115700	03	FILLER	PIC X(10)	VALUE " XX X "	.
115800	03	FILLER	PIC X(4)	VALUE SPACE.	
115900	03	FILLER	PIC X(10)	VALUE " XX X "	.
116000	03	FILLER	PIC X(2)	VALUE SPACE.	
116100	03	FILLER	PIC X(5)	VALUE "XXX X".	
116200	03	FILLER	PIC X(2)	VALUE SPACE.	
116300	03	FILLER	PIC X(13)	VALUE " XX X XX".	
116400	01	VP-HDR-REC4.			
116500	03	FILLER	PIC X(6)	VALUE SPACE.	
116600	03	FILLER	PIC X(7)	VALUE "LIN NUM".	
116700	03	FILLER	PIC X(7)	VALUE SPACE.	
116800	03	FILLER	PIC X(7)	VALUE " PLANT "	.
116900	03	FILLER	PIC X(4)	VALUE SPACE.	
117000	03	FILLER	PIC X(8)	VALUE "PHNO-1 %".	
117100	03	FILLER	PIC X(4)	VALUE SPACE.	
117200	03	FILLER	PIC X(8)	VALUE "PHNO-2 %".	
117300	03	FILLER	PIC X(4)	VALUE SPACE.	
117400	03	FILLER	PIC X(8)	VALUE "PHNO-3 %".	
117500	03	FILLER	PIC X(4)	VALUE SPACE.	
117600	03	FILLER	PIC X(8)	VALUE "PHNO-4 %".	
117700	03	FILLER	PIC X(4)	VALUE SPACE.	
117800	03	FILLER	PIC X(8)	VALUE "PHNO-5 %".	
117900	03	FILLER	PIC X(4)	VALUE SPACE.	
118000	03	FILLER	PIC X(8)	VALUE "PHNO-6 %".	
118100	03	FILLER	PIC X(4)	VALUE SPACE.	
118200	03	FILLER	PIC X(8)	VALUE "PHNO-7 %".	
118300	03	FILLER	PIC X(4)	VALUE SPACE.	
118400	03	FILLER	PIC X(8)	VALUE "PHNO-8 %".	
118500	03	FILLER	PIC X(9)	VALUE SPACE.	
118600	01	VP-HDR-REC5.			
118700	03	FILLER	PIC X(6)	VALUE SPACE.	
118800	03	FILLER	PIC X(7)	VALUE " 20-23 "	.
118900	03	FILLER	PIC X(7)	VALUE SPACE.	
119000	03	FILLER	PIC X(7)	VALUE " 24-30 "	.
119100	03	FILLER	PIC X(4)	VALUE SPACE.	
119200	03	FILLER	PIC X(8)	VALUE " 31-34 "	.
119300	03	FILLER	PIC X(4)	VALUE SPACE.	
119400	03	FILLER	PIC X(8)	VALUE " 35-38 "	.
119500	03	FILLER	PIC X(4)	VALUE SPACE.	
119600	03	FILLER	PIC X(8)	VALUE " 39-42 "	.
119700	03	FILLER	PIC X(4)	VALUE SPACE.	
119800	03	FILLER	PIC X(8)	VALUE " 43-46 "	.
119900	03	FILLER	PIC X(4)	VALUE SPACE.	
120000	03	FILLER	PIC X(8)	VALUE " 47-50 "	.
120100	03	FILLER	PIC X(4)	VALUE SPACE.	
120200	03	FILLER	PIC X(8)	VALUE " 51-54 "	.
120300	03	FILLER	PIC X(4)	VALUE SPACE.	
120400	03	FILLER	PIC X(8)	VALUE " 55-58 "	.
120500	03	FILLER	PIC X(4)	VALUE SPACE.	
120600	03	FILLER	PIC X(8)	VALUE " 59-62 "	.
120700	03	FILLER	PIC X(9)	VALUE SPACE.	
120800	01	VP-HDR-REC6.			
120900	03	FILLER	PIC X(6)	VALUE SPACE.	
121000	03	FILLER	PIC X(7)	VALUE " XXXX "	.
121100	03	FILLER	PIC X(7)	VALUE SPACE.	

```

121200      03  FILLER  PIC X(7)  VALUE "XXXXXXX".
121300      03  FILLER  PIC X(4)  VALUE SPACE.
121400      03  FILLER  PIC X(8)  VALUE " XX XX ".
121500      03  FILLER  PIC X(4)  VALUE SPACE.
121600      03  FILLER  PIC X(8)  VALUE " XX XX ".
121700      03  FILLER  PIC X(4)  VALUE SPACE.
121800      03  FILLER  PIC X(8)  VALUE " XX XX ".
121900      03  FILLER  PIC X(4)  VALUE SPACE.
122000      03  FILLER  PIC X(8)  VALUE " XX XX ".
122100      03  FILLER  PIC X(4)  VALUE SPACE.
122200      03  FILLER  PIC X(8)  VALUE " XX XX ".
122300      03  FILLER  PIC X(4)  VALUE SPACE.
122400      03  FILLER  PIC X(8)  VALUE " XX XX ".
122500      03  FILLER  PIC X(4)  VALUE SPACE.
122600      03  FILLER  PIC X(8)  VALUE " XX XX ".
122700      03  FILLER  PIC X(4)  VALUE SPACE.
122800      03  FILLER  PIC X(8)  VALUE " XX XX ".
122900      03  FILLER  PIC X(9)  VALUE SPACE.
123000*****
123100 01  MSG-1-V6P.
123200      03  FILLER  PIC X(24)  VALUE SPACE.
123300      03  FILLER  PIC X(26)  VALUE "IF ERROR CORRECTION IS IN ".
123400      03  FILLER  PIC X(26)  VALUE "COMMON DATA (1-12), KEY AL".
123500      03  FILLER  PIC X(26)  VALUE "L RECORDS WITH SAME COMMON".
123600      03  FILLER  PIC X(26)  VALUE " DATA. ".
123700      03  FILLER  PIC XXXX  VALUE SPACE.
123800 01  MSG-2-V6.
123900      03  FILLER  PIC X(24)  VALUE SPACE.
124000      03  FILLER  PIC X(26)  VALUE "IF ERROR CORRECTION IS IN ".
124100      03  FILLER  PIC X(26)  VALUE "FIELD POSITIONS (24-63), K".
124200      03  FILLER  PIC X(26)  VALUE "EY (1-23) AND RED CORRECTE".
124300      03  FILLER  PIC X(26)  VALUE "D FIELDS. ".
124400      03  FILLER  PIC XXXX  VALUE SPACE.
124500 01  MSG-2-VP.
124600      03  FILLER  PIC X(24)  VALUE SPACE.
124700      03  FILLER  PIC X(26)  VALUE "IF ERROR CORRECTION IS IN ".
124800      03  FILLER  PIC X(26)  VALUE "FIELD POSITIONS (24-62), K".
124900      03  FILLER  PIC X(26)  VALUE "EY (1-23) AND RED CORRECTE".
125000      03  FILLER  PIC X(26)  VALUE "D FIELDS. ".
125100      03  FILLER  PIC XXXX  VALUE SPACE.
125200 01  MSG-1-VU.
125300      03  FILLER  PIC X(24)  VALUE SPACE.
125400      03  FILLER  PIC X(26)  VALUE "IF ERROR CORRECTION IS IN ".
125500      03  FILLER  PIC X(26)  VALUE "COMMON DATA (1-12 OR 20), ".
125600      03  FILLER  PIC X(26)  VALUE "KEY ALL RECORDS WITH SAME ".
125700      03  FILLER  PIC X(26)  VALUE "COMMON DATA. ".
125800      03  FILLER  PIC XXXX  VALUE SPACE.
125900 01  MSG-2-VU.
126000      03  FILLER  PIC X(24)  VALUE SPACE.
126100      03  FILLER  PIC X(26)  VALUE "IF ERROR CORRECTION IS IN ".
126200      03  FILLER  PIC X(26)  VALUE "FIELD POSITIONS (25-58), K".
126300      03  FILLER  PIC X(26)  VALUE "EY (1-24) AND RED CORRECTE".
126400      03  FILLER  PIC X(26)  VALUE "D FIELDS. ".
126500      03  FILLER  PIC XXXX  VALUE SPACE.
126600 01  MSG-1-VF.
126700      03  FILLER  PIC X(24)  VALUE SPACE.
126800      03  FILLER  PIC X(26)  VALUE "IF ERROR CORRECTION IS IN ".

```

```

126900      03  FILLER  PIC X(26)  VALUE "COMMON DATA (1-8),  KEY AL".
127000      03  FILLER  PIC X(26)  VALUE "L RECORDS WITH SAME COMMON".
127100      03  FILLER  PIC X(26)  VALUE " DATA.                ".
127200      03  FILLER  PIC XXXX  VALUE SPACE.
127300  01  MSG-2-VF.
127400      03  FILLER  PIC X(24)  VALUE SPACE.
127500      03  FILLER  PIC X(26)  VALUE "IF ERROR CORRECTION IS IN ".
127600      03  FILLER  PIC X(26)  VALUE "FIELD POSITIONS (24-30), K".
127700      03  FILLER  PIC X(26)  VALUE "EY (1-23) AND RED CORRECTE".
127800      03  FILLER  PIC X(26)  VALUE "D FIELDS.                ".
127900      03  FILLER  PIC XXXX  VALUE SPACE.
128000*****
128100*****
128200  01  AST-HLD.
128300      03  ST-HLD-AST  PIC XX.
128400      03  DIST-HLD-AST  PIC XX.
128500      03  RA-HLD-AST    PIC XX.
128600      03  PLU-HLD-AST   PIC XX.
128700      03  ACTN-HLD-AST  PIC XX.
128800  01  LAST-HLD.
128900      03  LAST-PRINT.
129000          05  REC-TYP-LP  PIC XXXX.
129100          05  SDRP-LP.
129200          07  SDR-LP.
129300          09  SD-LP.
129400              11  ST-LP          PIC XX.
129500              11  DIST-LP       PIC XX.
129600          09  RA-LP          PIC XX.
129700          07  PLU-LP         PIC XX.
129800 COPY DBSTATUS OF TPCOBOLIB.
129900  01  CNTL-HLD.
130000      03  CUR-PRINT.
130100          05  REC-TYP-HLD PIC XXXX.
130200          05  SDRP-HLD.
130300          07  SDR-HLD.
130400          09  SD-HLD.
130500              11  ST-HLD          PIC XX.
130600              11  DIST-HLD       PIC XX.
130700          09  RA-HLD          PIC XX.
130800          07  PLU-HLD         PIC XX.
130900      03  DATE-HLD  PIC X(6).
131000      03  ACTN-HLD  PIC X.
131100      03  DIET-HLD  PIC X.
131200  01  HLD-NAMES.
131300      03  FUNC-HLD.
131400          05  ST-NM-HLD  PIC X(10).
131500          05  FILLER    PIC X(14).
131600      03  EXPL-HLD.
131700          05  DIST-NM-HLD  PIC X(11).
131800          05  FILLER      PIC X.
131900          05  RA-NM-HLD  PIC X(12).
132000          05  FILLER      PIC X.
132100          05  PU-NM-HLD  PIC X(15).
132200          05  FILLER      PIC X.
132300  01  HOLD-AREA.
132400      03  CODE-DEC-H.
132500          05  FILLER  PIC XXXX.

```

132600 05 PLANT-CD-H PIC X(7).  
132700 05 FILLER PIC X(24).  
132800 05 PLANT-TYP-H PIC X.  
132900 03 DE-CD-NAM-8823-DEC-H.  
133000 05 DIST-NAM-H PIC X(15).  
133100 05 FILLER PIC X(9).  
133200 03 HLD-PLANT-CD PIC X(7).  
133300 03 HLD-PLANT-TYP PIC X.  
133400 03 HLD-ANML-CD PIC XX.  
133500 03 PLANT-CD-PREV PIC X(7) VALUE SPACE.  
133600 03 PLANT-TYP-PREV PIC X VALUE SPACE.  
133700 03 PLANT-CD-FLG-PREV PIC 9 VALUE ZERO.  
133800 03 PLANT-TYP-FLG-PREV PIC 9 VALUE ZERO.  
133900 03 DAT-H.  
134000 05 YER-H PIC XX.  
134100 05 MON-H PIC 99.  
134200 05 DAY-H PIC XX.  
134300 03 DATA-DATE-VP-HLD.  
134400 05 DATA-YER-VP-HLD PIC XX.  
134500 05 DATA-MON-VP-HLD PIC XX.  
134600 05 DATA-DAY-VP-HLD PIC XX.  
134700 03 D-DATE-CHK.  
134800 05 D-YER-CHK PIC XX.  
134900 05 D-MON-CHK PIC XX.  
135000 05 D-DAY-CHK PIC XX.  
135100 03 JDAY-H PIC 9(5).  
135200 03 JDAY-P0-H PIC 9(5).  
135300 03 J9-H REDEFINES JDAY-P0-H.  
135400 05 1ST-2C-JDAY-P0-H PIC 99.  
135500 05 LST-3C-JDAY-P0-H PIC 999.  
135600 03 CNTS-IGB-V6.  
135700 05 V6-I PIC 9(5) VALUE ZERO.  
135800 05 FILLER PIC XX VALUE SPACE.  
135900 05 V6-G PIC 9(5) VALUE ZERO.  
136000 05 FILLER PIC XX VALUE SPACE.  
136100 05 V6-B PIC 9(5) VALUE ZERO.  
136200 05 FILLER PIC XX VALUE SPACE.  
136300 03 CNTS-IGB-VP.  
136400 05 VP-I PIC 9(5) VALUE ZERO.  
136500 05 FILLER PIC XX VALUE SPACE.  
136600 05 VP-G PIC 9(5) VALUE ZERO.  
136700 05 FILLER PIC XX VALUE SPACE.  
136800 05 VP-B PIC 9(5) VALUE ZERO.  
136900 05 FILLER PIC XX VALUE SPACE.  
137000 03 CNTS-IGB-VF.  
137100 05 VF-I PIC 9(5) VALUE ZERO.  
137200 05 FILLER PIC XX VALUE SPACE.  
137300 05 VF-G PIC 9(5) VALUE ZERO.  
137400 05 FILLER PIC XX VALUE SPACE.  
137500 05 VF-B PIC 9(5) VALUE ZERO.  
137600 05 FILLER PIC XX VALUE SPACE.  
137700 03 CNTS-IGB-VU.  
137800 05 VU-I PIC 9(5) VALUE ZERO.  
137900 05 FILLER PIC XX VALUE SPACE.  
138000 05 VU-G PIC 9(5) VALUE ZERO.  
138100 05 FILLER PIC XX VALUE SPACE.  
138200 05 VU-B PIC 9(5) VALUE ZERO.

```

138300          05 FILLER PIC XX VALUE SPACE.
138400 01 LTRL-AREA.
138500          03 10ASTRKS-L VALUE ALL "*".
138600          05 09ASTRKS-L.
138700          07 07ASTRKS-L.
138800              09 06ASTRKS-L.
138900              11 05ASTRKS-L.
139000              13 04ASTRKS-L.
139100              15 03ASTRKS-L.
139200              17 02ASTRKS-L.
139300              19 01ASTRKS-L PIC X.
139400              19 FILLER PIC X.
139500              17 FILLER PIC X.
139600              15 FILLER PIC X.
139700              13 FILLER PIC X.
139800              11 FILLER PIC X.
139900              09 FILLER PIC X.
140000              07 FILLER PIC XX.
140100              05 FILLER PIC X.
140200 01 TABL-AREA.
140300          03 MON-V PIC X(36) VALUE "JANFEBMARAPRMAYJUNJULAUGSEPOCT
140400-          "NOVDEC".
140500          03 MON-T REDEFINES MON-V PIC XXX OCCURS 12 TIMES.
140600 01 P-SPACE PIC X(132) VALUE SPACE.
140700 PROCEDURE DIVISION.
140800 000-BEGIN.
140900          ACCEPT DAT-H FROM DATE. ACCEPT JDAY-H FROM DAY.
141000          MOVE DAY-H TO HDR-DD. MOVE MON-T (MON-H) TO HDR-MMM.
141100          MOVE YER-H TO HDR-YR.
141200          MOVE SPACE TO LAST-HLD.
141300          READY DIC-DE.
141400          OPEN OUTPUT FILE-P1.
141500          IF TEST-SW = 0
141600              OPEN INPUT FILE-D1
141700              OPEN OUTPUT FILE-D2.
141800 100-READ.
141900          IF TEST-SW = 1
142000              GO TO 105-TEST.
142100          READ FILE-D1 AT END
142200              DISPLAY "          IN GOOD          BAD"
142300              DISPLAY "V6 " CNTS-IGB-V6
142400              DISPLAY "VP" CNTS-IGB-VP
142500              DISPLAY "VU" CNTS-IGB-VU
142600              DISPLAY "VF" CNTS-IGB-VF
142700              CLOSE FILE-P1
142800              CLOSE FILE-D1 FILE-D2
142900              FINISH DIC-DE STOP RUN.
143000          MOVE FDR-D1 TO FDR-D1-WK.
143100          GO TO 200-PROC.
143200 105-TEST.
143300          ADD 1 TO REC-SUB.
143400          MOVE REC-TB (REC-SUB) TO FDR-D1-WK.
143500          IF RT-RT (REC-SUB) = "END "
143600              DISPLAY "          IN GOOD          BAD"
143700              DISPLAY "V6" CNTS-IGB-V6
143800              DISPLAY "VP" CNTS-IGB-VP
143900              DISPLAY "VU" CNTS-IGB-VU

```



```

144000         DISPLAY "VF" CNTS-IGB-VF
144100         CLOSE FILE-P1
144200         FINISH DIC-DE  STOP RUN.
144300 200-PROC.
144400         MOVE ZERO TO KEY-FLG ERR-FLG AST-FLG.
144500         IF REC-TYP-D1 = REC-TYP-HLD NEXT SENTENCE ELSE
144600             IF REC-TYP-D1 = "VP1D"
144700                 MOVE "VP  EDIT ERROR LISTING" TO RMK-HDR-2 ELSE
144800                 IF REC-TYP-D1 = "VU1D"
144900                     MOVE "VU  EDIT ERROR LISTING" TO RMK-HDR-2 ELSE
145000                     IF REC-TYP-D1 = "V61D"
145100                         MOVE "V6  EDIT ERROR LISTING" TO RMK-HDR-2 ELSE
145200                         IF REC-TYP-D1 = "VF1D"
145300                             MOVE "VF  EDIT ERROR LISTING" TO RMK-HDR-2 ELSE
145400                             NEXT SENTENCE.
145500         MOVE CNTL-D1 TO CNTL-HLD.
145600         IF ACTN-D1 = "A" OR "C" OR "D"
145700             NEXT SENTENCE ELSE
145800             MOVE "*" TO ACTN-HLD-AST
145900             MOVE 1 TO KEY-FLG.
146000         IF REC-TYP-HLD = "V61D"
146100             ADD 1 TO V6-I
146200             MOVE FDR-D1-WK TO REC-V6-X
146300             PERFORM 300-EDIT-V6 THRU 320-EDIT-V6-EXIT.
146400         IF REC-TYP-HLD = "VU1D"
146500             ADD 1 TO VU-I
146600             MOVE FDR-D1-WK TO REC-VU-X
146700             PERFORM 500-EDIT-VU THRU 540-EDIT-VU-EXIT.
146800         IF REC-TYP-HLD = "VF1D"
146900             ADD 1 TO VF-I
147000             MOVE FDR-D1-WK TO REC-VF-X
147100             PERFORM 600-EDIT-VF THRU 640-EDIT-VF-EXIT.
147200         IF REC-TYP-HLD = "VP1D"
147300             ADD 1 TO VP-I
147400             MOVE FDR-D1-WK TO REC-VP-X
147500             PERFORM 400-EDIT-VP THRU 430-EDIT-VP-EXIT.
147600         IF REC-TYP-HLD = "VU1D" OR "VP1D" OR "VF1D" OR "V61D"
147700             GO TO 100-READ.
147800         DISPLAY "BAD RECORD".
147900         DISPLAY FDR-D1-WK.
148000         GO TO 100-READ.
148100 210-DB-SDRP.
148200         MOVE CNTL-D1 TO CNTL-HLD.
148300         MOVE ZERO TO KEY-FLG.
148400         IF ST-D1 = ST-LP
148500             GO TO 220-CK-DIST.
148600         MOVE 99 TO LIN-CNT.
148700         MOVE ST-HLD TO DE-CD-8822-DEC.
148800         MOVE 0003 TO DE-NO-8801-DEC.
148900         FIND ANY CODE-DEC.
149000         MOVE DB-STATUS TO DATA-BASE-STATUS.
149100         IF OK
149200             GET CODE-DEC
149300                 MOVE DE-CD-NAM-8823-DEC TO FUNC-HLD
149400                 MOVE ST-NM-HLD TO HDR-ST-NM
149500                 ELSE MOVE "UNKNOWN" TO HDR-ST-NM
149600                 HDR-DIST-NM

```

```

149700             MOVE 1 TO KEY-FLG
149800             MOVE 02ASTRKS-L TO ST-HLD-AST
149900             GO TO 250-EXIT.
150000 220-CK-DIST.
150100             IF SD-D1 = SD-LP
150200                 GO TO 230-CK-RA.
150300             MOVE SD-HLD TO DE-CD-8822-DEC.
150400             MOVE 0003 TO DE-NO-8801-DEC.
150500             FIND ANY CODE-DEC.
150600             MOVE DB-STATUS TO DATA-BASE-STATUS.
150700             IF OK
150800                 GET CODE-DEC
150900                 ELSE MOVE "UNKNOWN" TO HDR-DIST-NM
151000                     MOVE 1 TO KEY-FLG
151100                     MOVE 02ASTRKS-L TO DIST-HLD-AST
151200                     GO TO 250-EXIT.
151300             FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
151400             MOVE DB-STATUS TO DATA-BASE-STATUS.
151500             IF OK
151600                 GET CODE-EXPL-DECE
151700                 MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HLD
151800                 MOVE DIST-NM-HLD TO HDR-DIST-NM
151900             ELSE
152000                 MOVE "UNKNOWN" TO HDR-DIST-NM
152100                 MOVE 1 TO KEY-FLG
152200                 MOVE 02ASTRKS-L TO DIST-HLD-AST
152300                 GO TO 250-EXIT.
152400 230-CK-RA.
152500             IF SDR-D1 = SDR-LP
152600                 GO TO 240-CK-PLU.
152700             IF (RA-HLD = "99") AND (PLU-HLD NOT = "99")
152800                 MOVE 1 TO KEY-FLG
152900                 MOVE 02ASTRKS-L TO RA-HLD-AST
153000                 GO TO 250-EXIT.
153100             IF RA-HLD = "99"
153200                 GO TO 250-EXIT.
153300             MOVE SDR-HLD TO DE-CD-8822-DEC.
153400             MOVE 0003 TO DE-NO-8801-DEC.
153500             FIND ANY CODE-DEC.
153600             MOVE DB-STATUS TO DATA-BASE-STATUS.
153700             IF OK
153800                 GO TO 240-CK-PLU.
153900             MOVE 1 TO KEY-FLG.
154000             MOVE 02ASTRKS-L TO RA-HLD-AST
154100             GO TO 250-EXIT.
154200 240-CK-PLU.
154300             IF SDRP-D1 = SDRP-LP
154400                 GO TO 250-EXIT.
154500             IF PLU-HLD = "99"
154600                 GO TO 250-EXIT.
154700             MOVE SDRP-HLD TO DE-CD-8822-DEC.
154800             MOVE 0003 TO DE-NO-8801-DEC.
154900             FIND ANY CODE-DEC.
155000             MOVE DB-STATUS TO DATA-BASE-STATUS.
155100             IF OK
155200                 GO TO 250-EXIT.
155300             MOVE 1 TO KEY-FLG.

```

```

155400     MOVE 02ASTRKS-L TO PLU-HLD-AST.
155500     GO TO 250-EXIT.
155600 250-EXIT.
155700     EXIT.
155800 260-DB-PLANT.
155900     IF HLD-PLANT-CD = PLANT-CD-PREV
156000         MOVE PLANT-TYP-FLG-PREV TO PLANT-TYP-FLG
156100         MOVE PLANT-CD-FLG-PREV TO PLANT-CD-FLG
156200         GO TO 260-EXIT.
156300     MOVE HLD-PLANT-CD TO PLANT-CD-PREV.
156400     MOVE ZERO TO PLANT-CD-FLG PLANT-CD-FLG-PREV.
156500     IF HLD-PLANT-CD = "POTEN2 " OR "HYMEN  "
156600         MOVE "F" TO PLANT-TYP-H PLANT-TYP-PREV
156700         MOVE 2 TO PLANT-TYP-FLG PLANT-TYP-FLG-PREV
156800         GO TO 260-EXIT.
156900     MOVE HLD-PLANT-CD TO DE-CD-8822-DEC.
157000     MOVE 2646 TO DE-NO-8801-DEC.
157100     FIND ANY CODE-DEC.
157200     MOVE DB-STATUS TO DATA-BASE-STATUS.
157300     IF NOT OK
157400         MOVE 1 TO PLANT-CD-FLG PLANT-CD-FLG-PREV
157500         GO TO 260-EXIT.
157600     GET CODE-DEC.
157700     MOVE DB-STATUS TO DATA-BASE-STATUS.
157800     IF NOT OK
157900         MOVE 1 TO PLANT-CD-FLG PLANT-CD-FLG-PREV
158000         GO TO 260-EXIT.
158100     MOVE CODE-DEC TO CODE-DEC-H.
158200     IF PLANT-TYP-H NOT = "F" AND "G" AND "T" AND "S"
158300         MOVE 1 TO PLANT-CD-FLG PLANT-CD-FLG-PREV
158400         MOVE 0 TO PLANT-TYP-FLG PLANT-TYP-FLG-PREV
158500         GO TO 260-EXIT.
158600     IF PLANT-TYP-H = "G" MOVE 1 TO PLANT-TYP-FLG
158700         PLANT-TYP-FLG-PREV
158800         ELSE MOVE 2 TO PLANT-TYP-FLG PLANT-TYP-FLG-PREV.
158900 260-EXIT.
159000     EXIT.
159100 280-DB-ANML.
159200     IF HLD-ANML-CD =
159300         "CA" OR "DM" OR "ER" OR "SH" OR "AN" OR "HO"
159400         GO TO 290-EXIT.
159500     MOVE HLD-ANML-CD TO DE-CD-8822-DEC.
159600     MOVE 3929 TO DE-NO-8801-DEC.
159700     FIND ANY CODE-DEC.
159800     MOVE DB-STATUS TO DATA-BASE-STATUS.
159900     IF NOT OK
160000         MOVE 1 TO ANML-CD-FLG
160100         GO TO 290-EXIT.
160200     GET CODE-DEC.
160300     IF NOT OK
160400         MOVE 1 TO ANML-CD-FLG
160500         GO TO 290-EXIT.
160600 290-EXIT.
160700     EXIT.
160800 300-EDIT-V6.
160900     MOVE SPACE TO AST-HLD REC-1-V6P-AST REC-2-V6-AST
161000     EXAMINE GRP-1-V6-X REPLACING ALL SPACES BY ZEROS.

```

```

161100     EXAMINE ADW-PCT-3546-V6-X REPLACING ALL SPACES BY ZEROS.
161200     EXAMINE PHNO-STG-CD-3712-V6-X REPLACING ALL SPACES BY ZEROS.
161300     PERFORM 210-DB-SDRP THRU 250-EXIT.
161400     MOVE ST-HLD-AST TO ST-V6P-AST.
161500     MOVE DIST-HLD-AST TO DIST-V6P-AST.
161600     MOVE RA-HLD-AST TO RA-V6P-AST.
161700     MOVE PLU-HLD-AST TO PLU-V6P-AST.
161800     MOVE PLANT-CD-2646-V6-X TO HLD-PLANT-CD.
161900     PERFORM 260-DB-PLANT THRU 260-EXIT.
162000     MOVE PLANT-TYP-H TO PLANT-TYP-V6-X.
162100     IF PLANT-CD-FLG = 1
162200         MOVE 1 TO ERR-FLG
162300         MOVE 07ASTRKS-L TO PLANT-CD-V6-AST.
162400     IF PHNO-STG-CD-3712-V6-X > 0 AND < 9 NEXT SENTENCE ELSE
162500         MOVE 1 TO ERR-FLG
162600         MOVE 01ASTRKS-L TO PHNO-V6-AST.
162700     IF GRAMS-GRN-WGT-3941-V6-X = SPACE
162800         NEXT SENTENCE ELSE
162900             IF (GRAMS-GRN-WGT-3941-V6-X NOT GREATER THAN ZERO) OR
163000                 (GRAMS-GRN-WGT-3941-V6-X NOT NUMERIC)
163100                 MOVE ALL "*" TO GRN-WGT-V6-AST
163200                 MOVE 1 TO ERR-FLG.
163300     IF GRAMS-DRY-WGT-3942-V6-X = SPACE
163400         NEXT SENTENCE ELSE
163500             IF (GRAMS-DRY-WGT-3942-V6-X NOT GREATER THAN ZERO) OR
163600                 (GRAMS-DRY-WGT-3942-V6-X NOT NUMERIC)
163700                 MOVE ALL "*" TO DW-V6-AST
163800                 MOVE 1 TO ERR-FLG.
163900     IF PLANT-TYP-FLG = 2
164000         MOVE ZERO TO BASAL-DIMS-MIN-V6-X
164100         MOVE ZERO TO BASAL-DIMS-MAX-V6-X.
164200     IF PLANT-TYP-FLG = 1
164300         MOVE ZERO TO CROWN-DIMS-MIN-V6-X
164400         MOVE ZERO TO CROWN-DIMS-MAX-V6-X.
164500     IF (BASAL-DIMS-MIN-V6-X NOT NUMERIC) OR
164600         ((PLANT-TYP-FLG = 2) AND
164700         (BASAL-DIMS-MIN-V6-X > ZERO))
164800         MOVE 1 TO ERR-FLG
164900         MOVE ALL "*" TO MIN-BAD-V6-AST.
165000     IF (BASAL-DIMS-MAX-V6-X NOT NUMERIC) OR
165100         ((PLANT-TYP-FLG = 2) AND
165200         (BASAL-DIMS-MAX-V6-X > ZERO))
165300         MOVE 1 TO ERR-FLG
165400         MOVE ALL "*" TO MAX-BAD-V6-AST.
165500     IF (CROWN-DIMS-MIN-V6-X NOT NUMERIC) OR
165600         ((PLANT-TYP-FLG = 1) AND
165700         (CROWN-DIMS-MIN-V6-X > ZERO))
165800         MOVE 1 TO ERR-FLG
165900         MOVE ALL "*" TO MIN-CRND-V6-AST.
166000     IF (CROWN-DIMS-MAX-V6-X NOT NUMERIC) OR
166100         ((PLANT-TYP-FLG = 1) AND
166200         (CROWN-DIMS-MAX-V6-X > ZERO))
166300         MOVE 1 TO ERR-FLG
166400         MOVE ALL "*" TO MAX-CRND-V6-AST.
166500     IF HGT-AVG-V6-X = SPACE
166600         NEXT SENTENCE ELSE
166700             IF HGT-AVG-V6-X NOT NUMERIC

```

```

166800             MOVE ALL "*" TO HGT-V6-AST
166900             MOVE 1 TO ERR-FLG.
167000     IF AVG-LDR-V6-X = SPACE
167100             NEXT SENTENCE ELSE
167200             IF AVG-LDR-V6-X NOT NUMERIC
167300             MOVE ALL "*" TO AVG-LDR-V6-AST
167400             MOVE 1 TO ERR-FLG.
167500 310-PRINT.
167600     MOVE ERR-FLG TO AST-FLG.
167700     IF KEY-FLG = 1 MOVE 1 TO ERR-FLG.
167800     MOVE REC-V6-X TO REC-V6-Z.
167900     IF ERR-FLG = ZERO
168000             WRITE FDR-D2 FROM REC-V6-Z
168100             ADD 1 TO V6-G
168200             GO TO 320-EDIT-V6-EXIT
168300             ELSE
168400     ADD 1 TO V6-B.
168500     IF CUR-PRINT NOT = LAST-PRINT
168600             MOVE MSG-1-V6P TO HDR-3
168700             MOVE MSG-2-V6 TO HDR-4
168800             PERFORM 800-OFLO THRU 800-EXIT
168900             PERFORM 720-PRINT-V6-1 THRU 720-EXIT-1.
169000     IF LIN-CNT > 51
169100             PERFORM 800-OFLO THRU 800-EXIT.
169200     IF HEAD-SW = 1
169300             MOVE ZERO TO HEAD-SW
169400             PERFORM 720-PRINT-V6-2 THRU 720-EXIT
169500             ELSE
169600             PERFORM 720-PRINT-V6-3 THRU 720-EXIT.
169700 320-EDIT-V6-EXIT.
169800     EXIT.
169900 400-EDIT-VP.
170000     MOVE SPACE TO REC-2-VF-P.
170100     MOVE SPACE TO AST-HLD REC-1-V6P-AST REC-2-VP-AST
170200     EXAMINE PHNO-GP-VP-X REPLACING ALL SPACES BY ZEROS.
170300     PERFORM 210-DB-SDRP THRU 250-EXIT.
170400     MOVE ST-HLD-AST TO ST-V6P-AST.
170500     MOVE DIST-HLD-AST TO DIST-V6P-AST.
170600     MOVE RA-HLD-AST TO RA-V6P-AST.
170700     MOVE PLU-HLD-AST TO PLU-V6P-AST.
170800     MOVE PLANT-CD-2646-VP-X TO HLD-PLANT-CD.
170900     PERFORM 260-DB-PLANT THRU 260-EXIT.
171000     MOVE PLANT-TYP-H TO PLANT-TYP-3590-VP-X.
171100     IF PLANT-CD-FLG = 1
171200             MOVE 1 TO ERR-FLG
171300             MOVE 07ASTRKS-L TO PLANT-CD-VP-AST.
171400     MOVE ZERO TO SUB PHNO-CNT.
171500 410-LP.
171600     ADD 1 TO SUB.
171700     IF (SUB = 9) AND (PHNO-CNT = 8)
171800             MOVE 05ASTRKS-L TO PHNO-PCT-VP-AST (1)
171900             MOVE 1 TO ERR-FLG.
172000     IF SUB = 9 GO TO 420-PRINT.
172100     IF (PHNO-ADJ-VP-X (SUB) = ZERO)
172200             ADD 1 TO PHNO-CNT
172300             GO TO 410-LP.
172400     IF (PHNO-ADJ-VP-X (SUB) NOT NUMERIC)

```

```

172500         MOVE 05ASTRKS-L TO PHNO-PCT-VP-AST (SUB)
172600         MOVE 1 TO ERR-FLG.
172700         GO TO 410-LP.
172800 420-PRINT.
172900         MOVE ERR-FLG TO AST-FLG.
173000         IF KEY-FLG = 1 MOVE 1 TO ERR-FLG.
173100         MOVE REC-VP-X TO REC-VP-Z.
173200         IF ERR-FLG = ZERO
173300             WRITE FDR-D2 FROM REC-VP-Z
173400             ADD 1 TO VP-G
173500             GO TO 430-EDIT-VP-EXIT
173600             ELSE
173700         ADD 1 TO VP-B.
173800         IF CUR-PRINT NOT = LAST-PRINT
173900             MOVE MSG-1-V6P TO HDR-3
174000             MOVE MSG-2-VP TO HDR-4
174100             PERFORM 800-OFLO THRU 800-EXIT
174200             PERFORM 710-PRINT-VP-1 THRU 710-EXIT-1.
174300         IF LIN-CNT > 51
174400             PERFORM 800-OFLO THRU 800-EXIT.
174500         IF HEAD-SW = 1
174600             MOVE ZERO TO HEAD-SW
174700             PERFORM 710-PRINT-VP-2 THRU 710-EXIT
174800             ELSE
174900             PERFORM 710-PRINT-VP-3 THRU 710-EXIT.
175000 430-EDIT-VP-EXIT.
175100         EXIT.
175200 500-EDIT-VU.
175300         MOVE SPACE TO AST-HLD REC-1-VU-AST REC-2-VU-AST
175400         EXAMINE AUF-3928-VU-X-RD REPLACING ALL SPACES BY ZEROS.
175500         EXAMINE PUF-3511-VU-X-RD REPLACING ALL SPACES BY ZEROS.
175600         PERFORM 210-DB-SDRP THRU 250-EXIT.
175700         MOVE ST-HLD-AST TO ST-VU-AST.
175800         MOVE DIST-HLD-AST TO DIST-VU-AST.
175900         MOVE RA-HLD-AST TO RA-VU-AST.
176000         MOVE PLU-HLD-AST TO PLU-VU-AST.
176100         MOVE PLANT-CD-2646-VU-X TO HLD-PLANT-CD.
176200         PERFORM 260-DB-PLANT THRU 260-EXIT.
176300         MOVE PLANT-TYP-H TO PLANT-TYP-3590-VU-X.
176400         IF PLANT-CD-FLG = 1
176500             MOVE 1 TO ERR-FLG
176600             MOVE 07ASTRKS-L TO PLANT-CD-VU-AST.
176700         IF DIET-USE-TYP-3917-VU-X = "D" OR "P"
176800             NEXT SENTENCE ELSE
176900             MOVE 01ASTRKS-L TO PUFDT-VU-AST
177000             MOVE 1 TO KEY-FLG.
177100         IF ANML-GRZG-CD-3929-VU-X =
177200             "CA" OR "DM" OR "ER" OR "SH" OR "AN" OR "HO"
177300             MOVE ZERO TO SUB AUF-CNT
177400             GO TO 510-LP.
177500*         MOVE ANML-GRZG-CD-3929-VU-X TO DE-CD-8822-DEC.
177600*         MOVE 3929 TO DE-NO-8801-DEC.  FIND ANY CODE-DEC.
177700*         MOVE DB-STATUS TO DATA-BASE-STATUS.
177800*         IF NOT OK
177900*             MOVE 02ASTRKS-L TO ANML-SP-VU-AST
178000*             MOVE 1 TO ERR-FLG.
178100         MOVE ZERO TO SUB AUF-CNT.

```

```

178200 510-LP.
178300     ADD 1 TO SUB.
178400*    IF (SUB = 6) AND (AUF-CNT = 5)
178500*      MOVE 03ASTRKS-L TO PLNT-SPG-VU-AST
178600*      MOVE 1 TO ERR-FLG.
178700     IF SUB = 6
178800       MOVE ZERO TO SUB PUF-CNT
178900       GO TO 520-LP.
179000     IF (AUF-3928-VU-X (SUB) = ZERO)
179100       ADD 1 TO AUF-CNT
179200       GO TO 510-LP.
179300     IF (AUF-3928-VU-X (SUB) NOT NUMERIC)
179400       MOVE 03ASTRKS-L TO AUF-PCT-VU-AST (SUB)
179500       MOVE 1 TO ERR-FLG.
179600     GO TO 510-LP.
179700 520-LP.
179800     ADD 1 TO SUB.
179900*    IF (SUB = 6) AND (PUF-CNT = 5)
180000*      MOVE 02ASTRKS-L TO ANML-SPG-VU-AST
180100*      MOVE 1 TO ERR-FLG.
180200     IF SUB = 6 GO TO 530-PRINT.
180300     IF (PUF-3511-VU-X (SUB) = ZERO)
180400       ADD 1 TO PUF-CNT
180500       GO TO 520-LP.
180600     IF (PUF-3511-VU-X (SUB) NOT NUMERIC)
180700       MOVE 02ASTRKS-L TO PUF-VU-AST (SUB)
180800       MOVE 1 TO ERR-FLG.
180900     GO TO 520-LP.
181000 530-PRINT.
181100     MOVE ERR-FLG TO AST-FLG.
181200     IF KEY-FLG = 1 MOVE 1 TO ERR-FLG.
181300     MOVE REC-VU-X TO REC-VU-Z.
181400     IF ERR-FLG = ZERO
181500       WRITE FDR-D2 FROM REC-VU-Z
181600       ADD 1 TO VU-G
181700       GO TO 540-EDIT-VU-EXIT
181800     ELSE
181900     ADD 1 TO VU-B.
182000     IF CUR-PRINT NOT = LAST-PRINT
182100       MOVE MSG-1-VU TO HDR-3
182200       MOVE MSG-2-VU TO HDR-4
182300       PERFORM 800-OFLO THRU 800-EXIT
182400       PERFORM 730-PRINT-VU-1 THRU 730-EXIT-1.
182500     IF LIN-CNT > 51
182600       PERFORM 800-OFLO THRU 800-EXIT.
182700     IF HEAD-SW = 1
182800       MOVE ZERO TO HEAD-SW
182900       PERFORM 730-PRINT-VU-2 THRU 730-EXIT
183000     ELSE
183100       PERFORM 730-PRINT-VU-3 THRU 730-EXIT.
183200 540-EDIT-VU-EXIT.
183300     EXIT.
183400 600-EDIT-VF.
183500     MOVE SPACE TO AST-HLD REC-1-VF-AST REC-2-VF-AST
183600     EXAMINE MON-FORG-RQMT-LBS-3551-VF-X REPLACING ALL SPACES
183700     BY ZEROS.
183800     PERFORM 210-DB-SDRP THRU 250-EXIT.

```

```

183900 MOVE ST-HLD-AST TO ST-VF-AST.
184000 MOVE DIST-HLD-AST TO DIST-VF-AST.
184100 IF ANML-HGT-CLS-CD-3548-VF-X = "1" OR "2" OR "3" OR "4"
184200     NEXT SENTENCE ELSE
184300         MOVE 01ASTRKS-L TO HT-CLS-AV-VF-AST
184400         MOVE 1 TO ERR-FLG.
184500 IF (MON-FORG-RQMT-LBS-3551-VF-X NOT NUMERIC)
184600     MOVE 04ASTRKS-L TO MON-FORG-VF-AST
184700     MOVE 1 TO ERR-FLG.
184800 IF ANML-GRZG-CD-3929-VF-X =
184900     "CA" OR "DM" OR "ER" OR "SH" OR "AN" OR "HO"
185000     GO TO 610-PRINT.
185100* MOVE ANML-GRZG-CD-3929-VF-X TO DE-CD-8822-DEC.
185200* MOVE 3929 TO DE-NO-8801-DEC. FIND ANY CODE-DEC.
185300* MOVE DB-STATUS TO DATA-BASE-STATUS.
185400* IF NOT OK
185500*     MOVE 02ASTRKS-L TO ANML-SP-VF-AST
185600*     MOVE 1 TO ERR-FLG.
185700 610-PRINT.
185800     MOVE ERR-FLG TO AST-FLG.
185900     IF KEY-FLG = 1 MOVE 1 TO ERR-FLG.
186000     MOVE REC-VF-X TO REC-VF-Z.
186100     IF ERR-FLG = ZERO
186200         WRITE FDR-D2 FROM REC-VF-Z
186300         ADD 1 TO VF-G
186400         GO TO 640-EDIT-VF-EXIT
186500         ELSE
186600     ADD 1 TO VF-B.
186700     IF CUR-PRINT NOT = LAST-PRINT
186800         MOVE MSG-1-VF TO HDR-3
186900         MOVE MSG-2-VF TO HDR-4
187000         PERFORM 800-OFLO THRU 800-EXIT
187100         PERFORM 700-PRINT-VF-1 THRU 700-EXIT-1.
187200     IF LIN-CNT > 51
187300         PERFORM 800-OFLO THRU 800-EXIT.
187400     IF HEAD-SW = 1
187500         MOVE ZERO TO HEAD-SW
187600         PERFORM 700-PRINT-VF-2 THRU 700-EXIT
187700         ELSE
187800         PERFORM 700-PRINT-VF-3 THRU 700-EXIT.
187900 640-EDIT-VF-EXIT.
188000     EXIT.
188100 700-PRINT-VF-1.
188200     MOVE SPACE TO REC-1-VF-P.
188300     MOVE DIC-VF-X TO REC-VF-P.
188400     MOVE BLM-ADM-U-0003-ST-VF-X TO ST-VF-P.
188500     MOVE BLM-ADM-U-0003-DIST-VF-X TO DIST-VF-P.
188600     MOVE DATA-DATE-6618-VF-X TO DATE-VF-P.
188700     MOVE ACTN-CD-7350-VF-X TO ACTN-VF-P.
188800     WRITE FDR-P1 FROM VF-HDR-REC1 AFTER ADVANCING 2 LINES.
188900     WRITE FDR-P1 FROM VF-HDR-REC2 AFTER ADVANCING 1 LINES.
189000     WRITE FDR-P1 FROM VF-HDR-REC3 AFTER ADVANCING 1 LINES.
189100     WRITE FDR-P1 FROM REC-1-VF-P AFTER ADVANCING 2 LINES.
189200     WRITE FDR-P1 FROM REC-1-VF-AST AFTER ADVANCING 1 LINES.
189300     ADD 7 TO LIN-CNT.
189400 700-EXIT-1.
189500     EXIT.

```



```

189600 700-PRINT-VF-2.
189700     WRITE FDR-P1 FROM VF-HDR-REC4 AFTER ADVANCING 2 LINES.
189800     WRITE FDR-P1 FROM VF-HDR-REC5 AFTER ADVANCING 1 LINES.
189900     WRITE FDR-P1 FROM VF-HDR-REC6 AFTER ADVANCING 1 LINES.
190000     ADD 4 TO LIN-CNT.
190100 700-PRINT-VF-3.
190200     MOVE SPACE TO REC-2-VF-P.
190300     MOVE LIN-NUM-3578-VF-X TO LINE-VF-P.
190400     MOVE ANML-GRZG-CD-3929-VF-X TO ANML-SP-VF-P.
190500     MOVE MON-FORG-RQMT-LBS-3551-VF-X TO MON-FORG-VF-P.
190600     MOVE ANML-HGT-CLS-CD-3548-VF-X TO HT-CLS-AV-VF-P.
190700     ADD 2 TO LIN-CNT.
190800     WRITE FDR-P1 FROM REC-2-VF-P AFTER ADVANCING 2 LINES.
190900     IF AST-FLG = 1
191000         WRITE FDR-P1 FROM REC-2-VF-AST AFTER ADVANCING 1 LINES
191100         ADD 1 TO LIN-CNT.
191200 700-EXIT.
191300     EXIT.
191400 710-PRINT-VP-1.
191500     MOVE SPACE TO REC-1-V6P-P.
191600     MOVE DIC-VP-X TO REC-V6P-P.
191700     MOVE BLM-ADM-U-0003-ST-VP-X TO ST-V6P-P.
191800     MOVE BLM-ADM-U-0003-DIST-VP-X TO DIST-V6P-P.
191900     MOVE BLM-ADM-U-0003-RA-VP-X TO RA-V6P-P.
192000     MOVE BLM-ADM-U-0003-PLU-VP-X TO PLU-V6P-P.
192100     MOVE DATA-DATE-6618-VP-X TO DATE-V6P-P.
192200     MOVE ACTN-CD-7350-VP-X TO ACTN-V6P-P.
192300     WRITE FDR-P1 FROM V6P-HDR-REC1 AFTER ADVANCING 2 LINES.
192400     WRITE FDR-P1 FROM V6P-HDR-REC2 AFTER ADVANCING 1 LINES.
192500     WRITE FDR-P1 FROM V6P-HDR-REC3 AFTER ADVANCING 1 LINES.
192600     WRITE FDR-P1 FROM REC-1-V6P-P AFTER ADVANCING 2 LINES.
192700     WRITE FDR-P1 FROM REC-1-V6P-AST AFTER ADVANCING 1 LINES.
192800     ADD 7 TO LIN-CNT.
192900 710-EXIT-1.
193000     EXIT.
193100 710-PRINT-VP-2.
193200     WRITE FDR-P1 FROM VP-HDR-REC4 AFTER ADVANCING 2 LINES.
193300     WRITE FDR-P1 FROM VP-HDR-REC5 AFTER ADVANCING 1 LINES.
193400     WRITE FDR-P1 FROM VP-HDR-REC6 AFTER ADVANCING 1 LINES.
193500     ADD 4 TO LIN-CNT.
193600 710-PRINT-VP-3.
193700     MOVE SPACE TO REC-2-VP-P.
193800     MOVE LIN-NUM-3578-VP-X TO LINE-VP-P.
193900     MOVE PLANT-CD-2646-VP-X TO PLANT-CD-VP-P.
194000     IF PHNO-ADJ-VP-X (1) NOT = SPACE AND ZERO
194100         MOVE PHNO-ADJ-1-VP-X (1) TO PHNO-PCT-VP-P1 (1)
194200         MOVE PHNO-ADJ-2-VP-X (1) TO PHNO-PCT-VP-P3 (1)
194300         MOVE "." TO PHNO-PCT-VP-P2 (1).
194400     IF PHNO-ADJ-VP-X (2) NOT = SPACE AND ZERO
194500         MOVE PHNO-ADJ-1-VP-X (2) TO PHNO-PCT-VP-P1 (2)
194600         MOVE PHNO-ADJ-2-VP-X (2) TO PHNO-PCT-VP-P3 (2)
194700         MOVE "." TO PHNO-PCT-VP-P2 (2).
194800     IF PHNO-ADJ-VP-X (3) NOT = SPACE AND ZERO
194900         MOVE PHNO-ADJ-1-VP-X (3) TO PHNO-PCT-VP-P1 (3)
195000         MOVE PHNO-ADJ-2-VP-X (3) TO PHNO-PCT-VP-P3 (3)
195100         MOVE "." TO PHNO-PCT-VP-P2 (3).
195200     IF PHNO-ADJ-VP-X (4) NOT = SPACE AND ZERO

```

195300 MOVE PHNO-ADJ-1-VP-X (4) TO PHNO-PCT-VP-P1 (4)  
195400 MOVE PHNO-ADJ-2-VP-X (4) TO PHNO-PCT-VP-P3 (4)  
195500 MOVE "." TO PHNO-PCT-VP-P2 (4).  
195600 IF PHNO-ADJ-VP-X (5) NOT = SPACE AND ZERO  
195700 MOVE PHNO-ADJ-1-VP-X (5) TO PHNO-PCT-VP-P1 (5)  
195800 MOVE PHNO-ADJ-2-VP-X (5) TO PHNO-PCT-VP-P3 (5)  
195900 MOVE "." TO PHNO-PCT-VP-P2 (5).  
196000 IF PHNO-ADJ-VP-X (6) NOT = SPACE AND ZERO  
196100 MOVE PHNO-ADJ-1-VP-X (6) TO PHNO-PCT-VP-P1 (6)  
196200 MOVE PHNO-ADJ-2-VP-X (6) TO PHNO-PCT-VP-P3 (6)  
196300 MOVE "." TO PHNO-PCT-VP-P2 (6).  
196400 IF PHNO-ADJ-VP-X (7) NOT = SPACE AND ZERO  
196500 MOVE PHNO-ADJ-1-VP-X (7) TO PHNO-PCT-VP-P1 (7)  
196600 MOVE PHNO-ADJ-2-VP-X (7) TO PHNO-PCT-VP-P3 (7)  
196700 MOVE "." TO PHNO-PCT-VP-P2 (7).  
196800 IF PHNO-ADJ-VP-X (8) NOT = SPACE AND ZERO  
196900 MOVE PHNO-ADJ-1-VP-X (8) TO PHNO-PCT-VP-P1 (8)  
197000 MOVE PHNO-ADJ-2-VP-X (8) TO PHNO-PCT-VP-P3 (8)  
197100 MOVE "." TO PHNO-PCT-VP-P2 (8).  
197200 WRITE FDR-P1 FROM REC-2-VP-P AFTER ADVANCING 2 LINES.  
197300 ADD 2 TO LIN-CNT.  
197400 IF AST-FLG = 1  
197500 WRITE FDR-P1 FROM REC-2-VP-AST AFTER ADVANCING 1 LINES  
197600 ADD 1 TO LIN-CNT.  
197700 710-EXIT.  
197800 EXIT.  
197900 720-PRINT-V6-1.  
198000 MOVE SPACE TO REC-1-V6P-P.  
198100 MOVE DIC-V6-X TO REC-V6P-P.  
198200 MOVE BLM-ADM-U-0003-ST-V6-X TO ST-V6P-P.  
198300 MOVE BLM-ADM-U-0003-DIST-V6-X TO DIST-V6P-P.  
198400 MOVE BLM-ADM-U-0003-RA-V6-X TO RA-V6P-P.  
198500 MOVE BLM-ADM-U-0003-PLU-V6-X TO PLU-V6P-P.  
198600 MOVE DATA-DATE-6618-V6-X TO DATE-V6P-P.  
198700 MOVE ACTN-CD-7350-V6-X TO ACTN-V6P-P.  
198800 WRITE FDR-P1 FROM V6P-HDR-REC1 AFTER ADVANCING 2 LINES.  
198900 WRITE FDR-P1 FROM V6P-HDR-REC2 AFTER ADVANCING 1 LINES.  
199000 WRITE FDR-P1 FROM V6P-HDR-REC3 AFTER ADVANCING 1 LINES.  
199100 WRITE FDR-P1 FROM REC-1-V6P-P AFTER ADVANCING 2 LINES.  
199200 WRITE FDR-P1 FROM REC-1-V6P-AST AFTER ADVANCING 1 LINES.  
199300 ADD 7 TO LIN-CNT.  
199400 720-EXIT-1.  
199500 EXIT.  
199600 720-PRINT-V6-2.  
199700 WRITE FDR-P1 FROM V6-HDR-REC4 AFTER ADVANCING 2 LINES.  
199800 WRITE FDR-P1 FROM V6-HDR-REC5 AFTER ADVANCING 1 LINES.  
199900 WRITE FDR-P1 FROM V6-HDR-REC6 AFTER ADVANCING 1 LINES.  
200000 ADD 4 TO LIN-CNT.  
200100 720-PRINT-V6-3.  
200200 MOVE SPACE TO REC-2-V6-P.  
200300 MOVE LIN-NUM-3578-V6-X TO LINE-V6-P.  
200400 MOVE PLANT-CD-2646-V6-X TO PLANT-CD-V6-P.  
200500 MOVE PHNO-STG-CD-3712-V6-X TO PHNO-V6-P.  
200600 MOVE GRAMS-GRN-WGT-3941-V6-X TO GRN-WGT-V6-P.  
200700 MOVE GRAMS-DRY-WGT-3942-V6-X TO DW-V6-P.  
200800 MOVE ADW-PCT-3546-V6-X TO PCT-DW-V6-P.  
200900 IF BASAL-DIMS-MIN-V6-X NOT = SPACE AND ZERO

```

201000      MOVE BAD-MIN-1-V6-X TO MIN-BAD-V6-P1
201100      MOVE BAD-MIN-2-V6-X TO MIN-BAD-V6-P3
201200      MOVE "." TO MIN-BAD-V6-P2.
201300      IF BASAL-DIMS-MAX-V6-X NOT = SPACE AND ZERO
201400          MOVE BAD-MAX-1-V6-X TO MAX-BAD-V6-P1
201500          MOVE BAD-MAX-2-V6-X TO MAX-BAD-V6-P3
201600          MOVE "." TO MAX-BAD-V6-P2.
201700      IF CROWN-DIMS-MIN-V6-X NOT = SPACE AND ZERO
201800          MOVE CRD-MIN-1-V6-X TO MIN-CRND-V6-P1
201900          MOVE CRD-MIN-2-V6-X TO MIN-CRND-V6-P3
202000          MOVE "." TO MIN-CRND-V6-P2.
202100      IF CROWN-DIMS-MIN-V6-X NOT = SPACE AND ZERO
202200          MOVE CRD-MAX-1-V6-X TO MAX-CRND-V6-P1
202300          MOVE CRD-MAX-2-V6-X TO MAX-CRND-V6-P3
202400          MOVE "." TO MAX-CRND-V6-P2.
202500      IF HGT-AVG-V6-X NOT = SPACE AND ZERO
202600          MOVE HGT-AVG-1-V6-X TO HGT-V6-P1
202700          MOVE HGT-AVG-2-V6-X TO HGT-V6-P3
202800          MOVE "." TO HGT-V6-P2.
202900      IF AVG-LDR-V6-X NOT = SPACE AND ZERO
203000          MOVE AVG-LDR-1-V6-X TO AVG-LDR-V6-P1
203100          MOVE AVG-LDR-2-V6-X TO AVG-LDR-V6-P3
203200          MOVE "." TO AVG-LDR-V6-P2.
203300      MOVE REC-CNT-V6-X TO REC-CNT-V6-P.
203400      WRITE FDR-P1 FROM REC-2-V6-P AFTER ADVANCING 2 LINES.
203500      ADD 2 TO LIN-CNT.
203600      IF AST-FLG = 1
203700          WRITE FDR-P1 FROM REC-2-V6-AST AFTER ADVANCING 1 LINES
203800          ADD 1 TO LIN-CNT.
203900      720-EXIT.
204000      EXIT.
204100      730-PRINT-VU-1.
204200          MOVE SPACE TO REC-1-VU-P.
204300          MOVE DIC-VU-X TO REC-VU-P.
204400          MOVE BLM-ADM-U-0003-ST-VU-X TO ST-VU-P.
204500          MOVE BLM-ADM-U-0003-DIST-VU-X TO DIST-VU-P.
204600          MOVE BLM-ADM-U-0003-RA-VU-X TO RA-VU-P.
204700          MOVE BLM-ADM-U-0003-PLU-VU-X TO PLU-VU-P.
204800          MOVE DATA-DATE-6618-VU-X TO DATE-VU-P.
204900          MOVE ACTN-CD-7350-VU-X TO ACTN-VU-P.
205000          MOVE DIET-USE-TYP-3917-VU-X TO PUFDT-VU-P.
205100          WRITE FDR-P1 FROM VU-HDR-REC1 AFTER ADVANCING 2 LINES.
205200          WRITE FDR-P1 FROM VU-HDR-REC2 AFTER ADVANCING 1 LINES.
205300          WRITE FDR-P1 FROM VU-HDR-REC3 AFTER ADVANCING 1 LINES.
205400          WRITE FDR-P1 FROM REC-1-VU-P AFTER ADVANCING 2 LINES.
205500          WRITE FDR-P1 FROM REC-1-VU-AST AFTER ADVANCING 1 LINES.
205600          ADD 7 TO LIN-CNT.
205700      730-EXIT-1.
205800      EXIT.
205900      730-PRINT-VU-2.
206000          MOVE SPACE TO REC-1-VU-P.
206100          WRITE FDR-P1 FROM VU-HDR-REC4 AFTER ADVANCING 2 LINES.
206200          WRITE FDR-P1 FROM VU-HDR-REC5 AFTER ADVANCING 1 LINES.
206300          WRITE FDR-P1 FROM VU-HDR-REC6 AFTER ADVANCING 1 LINES.
206400          ADD 4 TO LIN-CNT.
206500      730-PRINT-VU-3.
206600          MOVE SPACE TO REC-2-VU-P.

```

```

206700     MOVE LIN-NUM-3578-VU-X TO LINE-VU-P.
206800     MOVE PLANT-CD-2646-VU-X TO PLANT-CD-VU-P.
206900     MOVE AUF-3928-VU-X (1) TO PLNT-SPG-VU-P.
207000     MOVE AUF-3928-VU-X (2) TO PLNT-SUM-VU-P.
207100     MOVE AUF-3928-VU-X (3) TO PLNT-FAL-VU-P.
207200     MOVE AUF-3928-VU-X (4) TO PLNT-WIN-VU-P.
207300     MOVE AUF-3928-VU-X (5) TO PLNT-YRL-VU-P.
207400     MOVE ANML-GRZG-CD-3929-VU-X TO ANML-SP-VU-P.
207500     MOVE PUF-3511-VU-X (1) TO ANML-SPG-VU-P.
207600     MOVE PUF-3511-VU-X (2) TO ANML-SUM-VU-P.
207700     MOVE PUF-3511-VU-X (3) TO ANML-FAL-VU-P.
207800     MOVE PUF-3511-VU-X (4) TO ANML-WIN-VU-P.
207900     MOVE PUF-3511-VU-X (5) TO ANML-YRL-VU-P.
208000     WRITE FDR-P1 FROM REC-2-VU-P AFTER ADVANCING 2 LINES.
208100     ADD 2 TO LIN-CNT.
208200     IF AST-FLG = 1
208300         WRITE FDR-P1 FROM REC-2-VU-AST AFTER ADVANCING 1 LINES
208400         ADD 1 TO LIN-CNT.
208500 730-EXIT.
208600     EXIT.
208700 800-OFLO.
208800     MOVE 1 TO HEAD-SW.
208900     ADD 1 TO PAG-CNT.
209000     MOVE PAG-CNT TO HDR-PG  MOVE 3 TO LIN-CNT.
209100     WRITE FDR-P1 FROM HDR-1 AFTER ADVANCING PAGE.
209200     WRITE FDR-P1 FROM HDR-2 AFTER ADVANCING 2 LINES.
209300     IF CUR-PRINT NOT = LAST-PRINT
209400         ADD 3 TO LIN-CNT
209500         WRITE FDR-P1 FROM HDR-3 AFTER ADVANCING 2 LINES
209600         WRITE FDR-P1 FROM HDR-4 AFTER ADVANCING 1 LINES.
209700     MOVE CUR-PRINT TO LAST-PRINT.
209800 800-EXIT.
209900     EXIT.
210000 999-END.
210100     STOP RUN.
210200*991.....2.....3.....4.....5.....6.....7..
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES127M.
000300*       V7 / V6 & VP PLANT MATCH (SEE REMARKS)
000400*
000500 AUTHOR. FRANK WILEY, RON BAKER.
000600 DATE-WRITTEN. 29 OCT 79 CHANGE 13 DEC 79.
000700 DATE-COMPILED.
000800*REMARKS: THE V7 IS READ AND A SORT RECORD IS RELEASED FOR
000900*       EACH SPECIES WITHIN THE RECORD. THESE RECORDS ARE
001000*       SORTED BY SDRP AND SPECIES. DUPLICATE SPECIES
001100*       ARE WRITTEN ON AN ERROR LISTING.
001200*       THE V6FUP AND THE V7 FILE ARE THEN SORTED
001300*       BY ST,DIS,RA,PLU AND SPECIES. THE VF AND VU RECORDS
001400*       ARE BYPASSED, THE V6 AND VP ARE
001500*       ARE USED BY MATCHING THE V7 RECORD ON THE SORTED
001600*       FIELDS, UNMATCHED V7 RECORDS ARE WRITTEN ON AN
001700*       ERROR LISTING.
001800*       RECORDS WHICH MATCH ARE LOADED INTO A TABLE AND ALL
001900*       LIKE (SPECIES) V6,VP RECORDS ARE REPRODUCED FOR EACH
002000*       DUPE SPECIES WITHIN THE MATCHING V7 RECORD. THE

```

002100\* V7 SPECIES ARE ALSO EDITED VS THE DATA BASE DICTIONARY  
002200\* AND NO MATCH OR BAD PLANT-TYPES ARE WRITTEN TO AN  
002300\* ERROR LISTING IN RECORD FORMAT.  
002400\* THE NEW-V6VP RECORDS ARE SORTED BEFORE FINAL OUTPUT  
002500\* TO REMOVE THE OLD DUPLICATES THAT WERE SUPERCEDED  
002600\* BY THE V7 EQUALVALENTS.  
002700 ENVIRONMENT DIVISION.  
002800 CONFIGURATION SECTION.  
002900 SOURCE-COMPUTER. LEVEL-66-ASCII.  
003000 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.  
003100 INPUT-OUTPUT SECTION.  
003200 FILE-CONTROL.  
003300 SELECT ADW-FCTR-FILE ASSIGN TO D1  
003400 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003500 SELECT FILE-V7 ASSIGN TO I1  
003600 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003700 SELECT FILE-V6FUP ASSIGN TO I2  
003800 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003900 SELECT PRINT-FILE ASSIGN TO P1-PRINTER  
004000 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
004100 SELECT PRINT-FILE-2 ASSIGN TO P2-PRINTER  
004200 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
004300 SELECT SORT-FILE ASSIGN TO W1  
004400 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
004500 DATA DIVISION.  
004600 SUB-SCHEMA SECTION.  
004700 DB CODVAL2 WITHIN BLMDIC.  
004800 FILE SECTION.  
004900 FD PRINT-FILE  
005000 CODE-SET GBCD  
005100 LABEL RECORD STANDARD.  
005200 01 PRINT-REC PIC X(132).  
005300 FD PRINT-FILE-2  
005400 CODE-SET GBCD  
005500 LABEL RECORD STANDARD.  
005600 01 PRINT-REC-2 PIC X(132).  
005700 FD FILE-V6FUP  
005800 CODE-SET GBCD  
005900 LABEL RECORD STANDARD.  
006000 01 V6FUP-REC.  
006100 02 FORM-CODE PIC XX.  
006200 02 CMPL-RCD.  
006300 03 FILLER PIC XX.  
006400 03 SDRP-V6 PIC X(8).  
006500 03 FILLER PIC X(11).  
006600 03 PLANT-SYMBOL-V6 PIC X(7).  
006700 03 FILLER PIC X(36).  
006800 FD FILE-V7  
006900 CODE-SET GBCD  
007000 LABEL RECORD STANDARD.  
007100 01 RCD-V7.  
007200 02 RCD-TYPE PIC X(4).  
007300 02 SDRP-V7 PIC X(8).  
007400 02 FILLER PIC X(7).  
007500 02 LINE-NO PIC 9(4).  
007600 02 PLANT-SYMBOL-V7 PIC X(7).  
007700 02 NEW-PLANT.

007800		03 PLANT-V7	OCCURS 8	PIC X(7).
007900		02 FILLER		PIC X(4).
008000	FD	ADW-FCTR-FILE		
008100		CODE-SET GBCD		
008200		LABEL RECORD STANDARD.		
008300	01	ADW-FCTR-REC.		
008400		02 REC-TYP-V6P		PIC XX.
008500		02 FILLER		PIC XX.
008600		02 SDRP-V6P.		
008700		04 SDR-V6P.		
008800		06 SD-V6P.		
008900		08 ST-V6P		PIC XX.
009000		08 DIST-V6P		PIC XX.
009100		06 RA-V6P		PIC XX.
009200		04 PLU-V6P		PIC XX.
009300		02 FILLER		PIC X(6).
009400		02 ACT-V6P		PIC X.
009500		02 LINE-V6P		PIC XXXX.
009600		02 PLANT-SYM-V6P		PIC X(7).
009700		02 PHENO-V6P		PIC X.
009800		02 FILLER		PIC X(31).
009900		02 PLANT-TYP-VP		PIC X.
010000		02 PLANT-TYP-V6		PIC X.
010100		02 FILLER		PIC XX.
010200	SD	SORT-FILE.		
010300	01	SORT-RCD.		
010400		02 SORT-KEY.		
010500		03 SDRP-S		PIC X(8).
010600		03 PLANT-SYMBOL-S		PIC X(7).
010700		03 S-NUM		PIC X(01).
010800		02 DATA-S		PIC X(90).
010900		02 FILLER		PIC XX.
011000	01	SORT-TWO.		
011100		02 FILLER		PIC X(4).
011200		02 SDRP-S7		PIC X(8).
011300		02 FILLER		PIC X(11).
011400		02 PLANT-SYM-S7		PIC X(7).
011500		02 FILLER		PIC X(60).
011600	01	SORT-THREE.		
011700		03 SORT-KEY-W7.		
011800		05 SDRP-W7		PIC X(8).
011900		05 PLANT-SYMBOL-W7		PIC X(7).
012000		03 S-NUM-W7		PIC 9.
012100		03 DATA-W7		PIC X(90).
012200		03 AST-W7		PIC 99.
012300	01	SORT-FOUR.		
012400		02 SR-KEY.		
012500		03 SDRP-SR.		
012600		05 ST-SR		PIC XX.
012700		05 DS-SR		PIC XX.
012800		05 RA-SR		PIC XX.
012900		05 PU-SR		PIC XX.
013000		03 PLT-TYP-SR		PIC X.
013100		03 PLT-PHENO-SR.		
013200		05 PLT-SR		PIC X(7).
013300		05 PHENO-SR		PIC X.
013400		03 A-B-CD-SR		PIC X.

013500           03 REC-TYP-SR    PIC XXXX.  
013600           02 SR-DATA       PIC X(66).  
013700 WORKING-STORAGE SECTION.  
013800 77 FIRST-SW            COMP-4        PIC 9 VALUE 1.  
013900 77 FIRST-BY-SW         COMP-4        PIC 9 VALUE 0.  
014000 77 PLANT-DISP         PIC X(7)    VALUE SPACE.  
014100 77 RTN-SW             COMP-4        PIC 9 VALUE 0.  
014200 77 LINE-CNT-2         PIC 99 VALUE ZERO.  
014300 77 LINE-CNT            PIC 99 VALUE ZERO.  
014400 77 CNT-12    PIC 9(8)    VALUE ZERO.  
014500 77 CNT-13    PIC 9(8)    VALUE ZERO.  
014600 77 CNT-14    PIC 9(8)    VALUE ZERO.  
014700 77 CNT-15    PIC 9(8)    VALUE ZERO.  
014800 77 CNT-16    PIC 9(8)    VALUE ZERO.  
014900 77 CNT-17    PIC 9(8)    VALUE ZERO.  
015000 77 CNT-18    PIC 9(8)    VALUE ZERO.  
015100 77 CNT-19    PIC 9(8)    VALUE ZERO.  
015200 77 CNT-20    PIC 9(8)    VALUE ZERO.  
015300 77 SORT-KEY-DUPE    PIC X(16)    VALUE SPACE.  
015400 77 ERR-SW         COMP-4        PIC 9 VALUE 0.  
015500 77 ERR-FLG         COMP-4        PIC 9 VALUE 0.  
015600 77 V7-CNTL-HLD    PIC X(15)    VALUE SPACE.  
015700 77 PG-CNT-2         PIC 9(5)    VALUE ZERO.  
015800 77 PG-CNT         PIC 9(5)    VALUE ZERO.  
015900 77 OFLO-CNT        PIC 99 VALUE ZERO.  
016000 77 W7-CNT         PIC 9(8)    VALUE ZERO.  
016100 77 SUB             COMP-4        PIC 99 VALUE 0.  
016200 77 SUB-V7         COMP-4        PIC 99 VALUE 0.  
016300 77 SUB-W7         COMP-4        PIC 99 VALUE 0.  
016400 77 EQUAL-SW        COMP-4        PIC 9 VALUE ZERO.  
016500 01 VP-BYPASS-HLD.  
016600           03 PLT-BY-VP    PIC X(7).  
016700           03 PHENO-BY-VP PIC X.  
016800 01 V6-BYPASS-HLD.  
016900           03 PLT-BY-V6    PIC X(7).  
017000           03 PHENO-BY-V6 PIC X.  
017100 01 AST-LINE.  
017200           03 FILLER    PIC X(23)    VALUE SPACE.  
017300           03 AST-P        PIC X(7).  
017400           03 AST         PIC X(7)    OCCURS 8 TIMES.  
017500           03 FILLER    PIC XXXX     VALUE SPACE.  
017600 01 SORT-HOLD-W7.  
017700           03 SORT-KEY-HOLD-W7.  
017800           05 SDRP-HOLD-W7        PIC X(8).  
017900           05 PLANT-SYMBOL-HOLD-W7    PIC X(7).  
018000           03 S-NUM-HOLD-W7         PIC 9.  
018100           03 DATA-HOLD-W7 PIC X(90).  
018200           03 FILLER    PIC XX.  
018300 01 V7-HOLD.  
018400           02 V7-CNTL.  
018500           03 SDRP-H            PIC X(8)    VALUE SPACE.  
018600           03 PLANT-SYMBOL-H        PIC X(7)    VALUE SPACE.  
018700           02 PLANT-TAB.  
018800           03 PLANT-H    OCCURS 40 TIMES    PIC X(56).  
018900           03 TYPE-H    OCCURS 40 TIMES    PIC X(8).  
019000 01 HOLD-PLANTS.  
019100           03 HLD-PLTS    PIC X(7)    OCCURS 8 TIMES.

019200 01 HOLD-TYPES.  
019300 03 HLD-TYPS PIC X OCCURS 8 TIMES.  
019400 01 WORK-TYPES.  
019500 03 WRK-TYPS PIC X OCCURS 8 TIMES.  
019600 01 V6-HOLD.  
019700 02 V6-CNTL.  
019800 03 SDRP-HLD PIC X(8).  
019900 03 PLANT-SYMBOL-HLD PIC X(7).  
020000 01 SORT-BUILD.  
020100 02 BUILD-SORT PIC X(66).  
020200 02 FILLER PIC X(24).  
020300 01 DIS-CNTS.  
020400 03 CNT-1 PIC 9(8) VALUE ZERO.  
020500 03 FILLER PIC X VALUE SPACE.  
020600 03 CNT-2 PIC 9(8) VALUE ZERO.  
020700 03 FILLER PIC X VALUE SPACE.  
020800 03 CNT-3 PIC 9(8) VALUE ZERO.  
020900 03 FILLER PIC X VALUE SPACE.  
021000 03 CNT-4 PIC 9(8) VALUE ZERO.  
021100 03 FILLER PIC X VALUE SPACE.  
021200 03 CNT-5 PIC 9(8) VALUE ZERO.  
021300 03 FILLER PIC X VALUE SPACE.  
021400 03 CNT-6 PIC 9(8) VALUE ZERO.  
021500 03 FILLER PIC X VALUE SPACE.  
021600 03 CNT-7 PIC 9(8) VALUE ZERO.  
021700 03 FILLER PIC X VALUE SPACE.  
021800 03 CNT-8 PIC 9(8) VALUE ZERO.  
021900 03 FILLER PIC X VALUE SPACE.  
022000 03 CNT-9 PIC 9(8) VALUE ZERO.  
022100 03 FILLER PIC X VALUE SPACE.  
022200 03 CNT-10 PIC 9(8) VALUE ZERO.  
022300 03 FILLER PIC X VALUE SPACE.  
022400 03 CNT-11 PIC 9(8) VALUE ZERO.  
022500 01 BY-DISP.  
022600 03 FILLER PIC X VALUE SPACE.  
022700 03 ST-BY PIC XX.  
022800 03 FILLER PIC X VALUE SPACE.  
022900 03 DS-BY PIC XX.  
023000 03 FILLER PIC X VALUE SPACE.  
023100 03 RA-BY PIC XX.  
023200 03 FILLER PIC X VALUE SPACE.  
023300 03 PU-BY PIC XX.  
023400 03 FILLER PIC XX VALUE SPACE.  
023500 03 PLT-BY PIC X(7).  
023600 03 FILLER PIC X VALUE SPACE.  
023700 03 REC-BY PIC XX.  
023800 01 BY-MSG.  
023900 03 FILLER PIC X(25) VALUE "THE FOLLOWING PLANTS WERE".  
024000 03 FILLER PIC X(23) VALUE " REPLACED BY THE VALUES".  
024100 03 FILLER PIC X(23) VALUE " IN THEIR EQUIVALENT V7".  
024200 03 FILLER PIC X(7) VALUE " PLANT.".

024300 01 BY-HDR.  
024400 03 FILLER PIC X(22) VALUE " ST DS RA PLU PLANT ".  
024500 03 FILLER PIC X(6) VALUE "RECORD".  
024600 01 HDR-1.  
024700 05 FILLER PIC X(24) VALUE " PCN: SV127E AS OF ".  
024800 05 HDR-DD PIC XX.



```

024900      05  FILLER          PIC X          VALUE SPACE.
025000      05  HDR-MMM        PIC XXX.
025100      05  FILLER          PIC X          VALUE SPACE.
025200      05  HDR-YR         PIC XX.
025300      05  FILLER          PIC X(11)       VALUE SPACES.
025400      05  FILLER          PIC X(45)       VALUE
025500      "USDI- BUR OF LAND MGT SOIL-VEG INVENT METHOD".
025600      05  FILLER          PIC X(32)       VALUE SPACES.
025700      05  FILLER          PIC X(5)        VALUE "PAGE:".
025800      05  HDR-PG         PIC ZZZZZ9.
025900 01  HDR-2.
026000      05  FILLER          PIC X(50)       VALUE SPACES.
026100      05  RMK-HDR-2     PIC X(16)       VALUE
026200      "V7 ERROR LISTING".
026300      05  RMK-HDR-2B    PIC X(21)       VALUE " (DUPLICATE SPECIES)".
026400      05  FILLER          PIC X(45)       VALUE SPACES.
026500 01  HDR-3.
026600      05  FILLER          PIC X(50)       VALUE SPACES.
026700      05  RMK-HDR-3     PIC X(16)       VALUE
026800      "V7 ERROR LISTING".
026900      05  RMK-HDR-3B    PIC X(24)       VALUE " (UNMATCHED V6 SPECIES)".
027000      05  FILLER          PIC X(42)       VALUE SPACES.
027100 COPY DBSTATUS OF TPCOBOLIB.
027200 01  HOLD-AREA.
027300      03  CODE-DEC-H.
027400          05  FILLER     PIC XXXX.
027500          05  PLANT-CD-H  PIC X(7).
027600          05  FILLER     PIC X(24).
027700          05  PLANT-TYP-H PIC X.
027800      03  DE-CD-NAM-8823-DEC-H.
027900          05  DIST-NAM-H  PIC X(15).
028000          05  FILLER     PIC X(9).
028100      03  HLD-PLANT-CD   PIC X(7).
028200      03  HLD-PLANT-TYP  PIC X.
028300      03  DAT-H.
028400          05  YER-H      PIC XX.
028500          05  MON-H      PIC 99.
028600          05  DAY-H      PIC XX.
028700 01  TABL-AREA.
028800      03  MON-V     PIC X(36)  VALUE "JANFEBMARAPRMAYJUNJULAUGSEPOCT
028900-      "NOVDEC".
029000      03  MON-T     REDEFINES MON-V PIC XXX OCCURS 12 TIMES.
029100 01  HDR-5.
029200      03  FILLER     PIC X(30)
029300      VALUE "RECDSTDSRAPU-----LINE-PLANT-".
029400      03  FILLER     PIC X(28)
029500      VALUE "-PLNT1--PLNT2--PLNT3--PLNT4-".
029600      03  FILLER     PIC X(28)
029700      VALUE "-PLNT5--PLNT6--PLNT7--PLNT8-".
029800      03  FILLER     PIC X(46)  VALUE SPACE.
029900 01  DET-1.
030000      03  FILLER     PIC X(86).
030100      03  FILLER     PIC X(46).
030200 01  DET-2.
030300      03  FILLER     PIC X(30).
030400      03  PLT-AST     PIC X(7)  OCCURS 8 TIMES.
030500      03  FILLER     PIC X(46).

```

```

030600 01 P-SPACE    PIC X(132)    VALUE SPACE.
030700 PROCEDURE DIVISION.
030800 000-BEGIN SECTION.
030900 000-HOUSEKEEPING.
031000     MOVE SPACE TO AST-LINE.
031100     OPEN OUTPUT PRINT-FILE.
031200     OPEN OUTPUT PRINT-FILE-2.
031300     ACCEPT DAT-H FROM DATE.
031400     MOVE DAY-H TO HDR-DD.
031500     MOVE MON-T (MON-H) TO HDR-MMM.
031600     MOVE YER-H TO HDR-YR.
031700 000-OFLO.
031800     ADD 1 TO PG-CNT-2.
031900     MOVE 5 TO LINE-CNT-2.
032000     WRITE PRINT-REC-2 FROM P-SPACE BEFORE PAGE.
032100     MOVE PG-CNT-2 TO HDR-PG.
032200     MOVE SPACE TO DET-2.
032300     WRITE PRINT-REC-2 FROM HDR-1
032400         AFTER 1 LINE.
032500     WRITE PRINT-REC-2 FROM HDR-2 AFTER 2 LINES.
032600     WRITE PRINT-REC-2 FROM HDR-5
032700         AFTER 1 LINE.
032800 000-EXIT.
032900     EXIT.
033000 000-CONTINUE.
033100*     DISPLAY "THE FOLLOWING PAIRS OF RECORDS".
033200*     DISPLAY "    CONTAIN DUPLICATE SPECIES CODES."
033300*     DISPLAY " ".
033400 010-W7-SORT SECTION.
033500 015-SORT.
033600     SORT SORT-FILE ON ASCENDING KEY SORT-KEY-W7, S-NUM-W7
033700         INPUT PROCEDURE IS 020-BUILD-W7
033800         OUTPUT PROCEDURE IS 030-DUPE-CHK.
033900 015-W7-END.
034000     IF W7-CNT = ZERO
034100         DISPLAY " THERE WERE NO DUPLICATE SPECIES ON THE V7.".
034200     CLOSE FILE-V7.
034300 016-OFLO.
034400     ADD 1 TO PG-CNT.
034500     MOVE 5 TO LINE-CNT.
034600     WRITE PRINT-REC FROM P-SPACE BEFORE PAGE.
034700     MOVE PG-CNT TO HDR-PG.
034800     MOVE SPACE TO DET-2.
034900     WRITE PRINT-REC FROM HDR-1
035000         AFTER 1 LINE.
035100     WRITE PRINT-REC FROM HDR-3 AFTER 2 LINES.
035200     WRITE PRINT-REC FROM HDR-5
035300         AFTER 1 LINE.
035400 016-EXIT.
035500     EXIT.
035600 017-CONTINUE.
035700     MOVE SPACE TO HOLD-PLANTS PLANT-TAB.
035800     GO TO 040-V7-SORT.
035900 020-BUILD-W7 SECTION.
036000 020-OPEN.
036100     OPEN INPUT FILE-V7.
036200 020-READ.

```

```

036300 READ FILE-V7 AT END
036400 GO TO 020-EXIT.
036500 MOVE SPACE TO SORT-THREE.
036600 MOVE 1 TO S-NUM-W7.
036700 MOVE SDRP-V7 TO SDRP-W7.
036800 MOVE PLANT-SYMBOL-V7 TO PLANT-SYMBOL-W7.
036900 MOVE RCD-V7 TO DATA-W7.
037000 RELEASE SORT-THREE.
037100 MOVE ZERO TO SUB-W7.
037200 020-LP.
037300 IF SUB-W7 = 8
037400 GO TO 020-READ.
037500 ADD 1 TO SUB-W7.
037600 IF PLANT-V7 (SUB-W7) = SPACE
037700 GO TO 020-READ.
037800 MOVE SPACE TO SORT-THREE.
037900 MOVE 2 TO S-NUM-W7.
038000 MOVE SDRP-V7 TO SDRP-W7.
038100 MOVE RCD-V7 TO DATA-W7.
038200 MOVE PLANT-V7 (SUB-W7) TO PLANT-SYMBOL-W7.
038300 MOVE SUB-W7 TO AST-W7.
038400 RELEASE SORT-THREE.
038500 GO TO 020-LP.
038600 020-EXIT.
038700 EXIT.
038800 030-DUPE-CHK SECTION.
038900 030-RTN.
039000 RETURN SORT-FILE AT END
039100 GO TO 030-EXIT.
039200 MOVE SORT-THREE TO SORT-HOLD-W7.
039300 030-RTN2.
039400 RETURN SORT-FILE AT END
039500 GO TO 030-EXIT.
039600 IF SORT-KEY-W7 NOT = SORT-KEY-HOLD-W7
039700 MOVE SORT-THREE TO SORT-HOLD-W7
039800 GO TO 030-RTN2.
039900 IF (S-NUM-HOLD-W7 = S-NUM-W7) AND
040000 (S-NUM-HOLD-W7 = 1)
040100 GO TO 030-RTN2.
040200 ADD 1 TO W7-CNT.
040300 IF LINE-CNT-2 > 50
040400 PERFORM 000-OFLO THRU 000-EXIT.
040500 MOVE "*****" TO AST (AST-W7).
040600 MOVE DATA-HOLD-W7 TO DET-2.
040700 WRITE PRINT-REC-2 FROM DET-2 AFTER 1 LINE.
040800 MOVE DATA-W7 TO DET-2.
040900 WRITE PRINT-REC-2 FROM DET-2 AFTER 1 LINE.
041000 MOVE AST-LINE TO DET-2.
041100 WRITE PRINT-REC-2 FROM DET-2 AFTER 1 LINE.
041200 MOVE SPACE TO AST-LINE.
041300 MOVE SPACE TO DET-2.
041400 WRITE PRINT-REC-2 FROM DET-2 AFTER 1 LINE.
041500 ADD 4 TO LINE-CNT-2.
041600 GO TO 030-RTN2.
041700 030-EXIT.
041800 EXIT.
041900 040-V7-SORT SECTION.

```

```

042000 045-SORT.
042100     SORT SORT-FILE ON ASCENDING KEY SDRP-S7,
042200         PLANT-SYM-S7
042300         USING FILE-V7
042400         GIVING FILE-V7.
042500 050-V6-SORT SECTION.
042600 055-SORT-V6.
042700     SORT SORT-FILE ON ASCENDING KEY SORT-KEY
042800         INPUT PROCEDURE 065-BUILD-V6
042900         OUTPUT PROCEDURE 200-OUTPUT.
043000     IF CNT-11 = ZERO
043100         DISPLAY " ALL PLANTS WERE VERIFIED AGAINST THE DATA BASE"
043200         DISPLAY "     INCLUDING HAVING A PROPER PLANT TYPE." .
043300     IF CNT-9 = ZERO
043400         DISPLAY " ALL V7 SPECIES RECORDS MATCHED.".
043500*    DISPLAY DIS-CNTS.
043600     FINISH DIC-DE.
043700     CLOSE PRINT-FILE.
043800     CLOSE PRINT-FILE-2
043900 060-PASS-SORT SECTION.
044000 062-SORT-VERB.
044100     SORT SORT-FILE
044200         ASCENDING KEY SR-KEY
044300         INPUT PROCEDURE 800-INPUT
044400         OUTPUT PROCEDURE 900-OUTPUT.
044500 064-END.
044600     CLOSE ADW-FCTR-FILE.
044700     DISPLAY " NEW V6 RECORDS OUTPUT= " CNT-14.
044800     DISPLAY " NEW VP RECORDS OUTPUT= " CNT-15.
044900     DISPLAY " V6 RECORDS BYPASSED= " CNT-12.
045000     DISPLAY " VP RECORDS BYPASSED= " CNT-13.
045100     STOP RUN.
045200 065-BUILD-V6 SECTION.
045300 070-OPEN.
045400     OPEN INPUT FILE-V6FUP.
045500 075-READ.
045600     READ FILE-V6FUP AT END
045700         GO TO 100-CLOSE.
045800     IF FORM-CODE = "VU" OR "VF"
045900         GO TO 075-READ.
046000     MOVE SDRP-V6 TO SDRP-S.
046100     MOVE PLANT-SYMBOL-V6 TO PLANT-SYMBOL-S.
046200     MOVE ZERO TO S-NUM.
046300     IF FORM-CODE = "VP"
046400         ADD 1 TO CNT-7
046500         MOVE "3" TO S-NUM.
046600     IF FORM-CODE = "V6"
046700         ADD 1 TO CNT-8
046800         MOVE "4" TO S-NUM.
046900     MOVE V6FUP-REC TO BUILD-SORT.
047000     MOVE SORT-BUILD TO DATA-S.
047100     ADD 1 TO CNT-5.
047200     RELEASE SORT-RCD.
047300     GO TO 075-READ.
047400 100-CLOSE.
047500     CLOSE FILE-V6FUP.
047600 200-OUTPUT SECTION.

```

```

047700 210-OPEN.
047800     MOVE SPACE TO V7-CNTL V6-CNTL.
047900     OPEN OUTPUT ADW-FCTR-FILE.
048000     READY DIC-DE.
048100     OPEN INPUT FILE-V7.
048200     WRITE PRINT-REC-2 FROM P-SPACE BEFORE PAGE.
048300     MOVE 5 TO LINE-CNT-2.
048400     ADD 1 TO PG-CNT-2.
048500     MOVE PG-CNT-2 TO HDR-PG.
048600     MOVE SPACE TO DET-2.
048700     WRITE PRINT-REC-2 FROM HDR-1
048800         AFTER 1 LINE.
048900     MOVE " (INVALID SPECIES) " TO RMK-HDR-2B.
049000     WRITE PRINT-REC-2 FROM HDR-2 AFTER 2 LINES.
049100     WRITE PRINT-REC-2 FROM HDR-5
049200         AFTER 1 LINE.
049300 220-RETURN.
049400     IF (V6-CNTL = V7-CNTL) AND (V7-CNTL = HIGH-VALUE)
049500         GO TO 700-CLOSE.
049600     IF V6-CNTL = HIGH-VALUE AND (FIRST-SW = 0)
049700         GO TO 410-CONTROL.
049800     RETURN SORT-FILE AT END
049900         MOVE ZERO TO SUB-V7
050000         MOVE HIGH-VALUE TO SDRP-HLD PLANT-SYMBOL-HLD
050100         GO TO 410-CONTROL.
050200     ADD 1 TO CNT-1.
050300     IF (SORT-KEY = SORT-KEY-DUPE)
050400         DISPLAY "DUPE= " DATA-S
050500         GO TO 220-RETURN.
050600     IF S-NUM = "3"
050700         MOVE SORT-KEY TO SORT-KEY-DUPE.
050800     MOVE DATA-S TO SORT-BUILD.
050900     MOVE BUILD-SORT TO ADW-FCTR-REC.
051000     IF REC-TYP-V6P = "V6" OR "VP"
051100         MOVE "B" TO ACT-V6P.
051200     WRITE ADW-FCTR-REC.
051300     ADD 1 TO CNT-6.
051400     MOVE SDRP-S TO SDRP-HLD.
051500     MOVE PLANT-SYMBOL-S TO PLANT-SYMBOL-HLD.
051600     IF V6-CNTL = V7-CNTL-HLD
051700         GO TO 430-RESET-SUBS.
051800     MOVE ZERO TO SUB SUB-V7.
051900     MOVE SPACE TO HOLD-PLANTS PLANT-TAB.
052000     IF FIRST-SW = 1 MOVE ZERO TO FIRST-SW GO TO 400-READ-V7.
052100     ADD 1 TO CNT-10.
052200     IF V6-CNTL = V7-CNTL
052300         GO TO 410-CONTROL .
052400     IF V6-CNTL < V7-CNTL
052500         GO TO 220-RETURN.
052600 310-DISPLAY.
052700     MOVE RCD-V7 TO DET-1.
052800     IF LINE-CNT > 50
052900         PERFORM 016-OFLO THRU 016-EXIT.
053000     WRITE PRINT-REC FROM DET-1 AFTER 1 LINE.
053100     MOVE SPACE TO AST-LINE.
053200     MOVE "*****" TO AST-P.
053300     WRITE PRINT-REC FROM AST-LINE AFTER 2 LINES.

```

```

053400     ADD 3 TO LINE-CNT.
053500     ADD 1 TO CNT-9.
053600 320-ERR-CHK.
053700     IF ERR-SW = 1
053800         ADD 1 TO CNT-11
053900         PERFORM 620-PRINT THRU 620-EXIT.
054000 400-READ-V7.
054100     IF V7-CNTL = HIGH-VALUE AND (FIRST-SW = 0)
054200         GO TO 410-CONTROL.
054300     READ FILE-V7 AT END
054400         MOVE HIGH-VALUE TO SDRP-H PLANT-SYMBOL-H
054500         GO TO 420-CHK-PLANTS.
054600     PERFORM 600-DB-PLANT THRU 600-EXIT.
054700     ADD 1 TO CNT-3.
054800     MOVE SDRP-V7 TO SDRP-H.
054900     MOVE PLANT-SYMBOL-V7 TO PLANT-SYMBOL-H.
055000 410-CONTROL.
055100     IF (V6-CNTL = V7-CNTL) AND (V7-CNTL = HIGH-VALUE)
055200         GO TO 700-CLOSE.
055300     IF V6-CNTL = V7-CNTL
055400         ADD 1 TO SUB-V7
055500         MOVE NEW-PLANT TO PLANT-H (SUB-V7)
055600         MOVE HOLD-TYPES TO TYPE-H (SUB-V7)
055700         GO TO 320-ERR-CHK.
055800     IF V6-CNTL > V7-CNTL
055900         GO TO 310-DISPLAY.
056000 420-CHK-PLANTS.
056100     IF SUB-V7 = ZERO GO TO 220-RETURN.
056200 430-RESET-SUBS.
056300     MOVE ZERO TO SUB SUB-V7.
056400     MOVE V6-CNTL TO V7-CNTL-HLD.
056500 500-BUILD-OUTPUT.
056600     ADD 1 TO SUB-V7.
056700     IF SUB-V7 = 41 GO TO 220-RETURN.
056800     IF PLANT-H (SUB-V7) = SPACE GO TO 220-RETURN.
056900     MOVE PLANT-H (SUB-V7) TO HOLD-PLANTS.
057000     MOVE TYPE-H (SUB-V7) TO WORK-TYPES.
057100 510-LOOP.
057200     ADD 1 TO SUB.
057300     IF SUB = 9
057400         MOVE ZERO TO SUB
057500         GO TO 500-BUILD-OUTPUT.
057600     IF HLD-PLTS (SUB) = SPACE
057700         GO TO 510-LOOP.
057800     MOVE DATA-S TO SORT-BUILD.
057900     MOVE BUILD-SORT TO ADW-FCTR-REC.
058000     MOVE HLD-PLTS (SUB) TO PLANT-SYM-V6P.
058100     IF REC-TYP-V6P = "V6"
058200         MOVE WRK-TYPS (SUB) TO PLANT-TYP-V6
058300         ELSE MOVE WRK-TYPS (SUB) TO PLANT-TYP-VP.
058400     MOVE "A" TO ACT-V6P.
058500     WRITE ADW-FCTR-REC.
058600     ADD 1 TO CNT-4.
058700     GO TO 510-LOOP.
058800 600-DB-PLANT.
058900     MOVE ZERO TO SUB.
059000     MOVE SPACE TO HOLD-TYPES.

```

```

059100 601-LOOP.
059200     ADD 1 TO SUB.
059300     IF SUB = 9
059400         GO TO 600-EXIT.
059500     IF PLANT-V7 (SUB) = SPACE
059600         GO TO 601-LOOP.
059700     MOVE PLANT-V7 (SUB) TO HLD-PLANT-CD.
059800     PERFORM 610-DB-PLANT THRU 610-EXIT.
059900     IF ERR-FLG = 1
060000         MOVE 1 TO ERR-SW
060100         MOVE "*****" TO PLT-AST (SUB).
060200     IF ERR-FLG = 2
060300         MOVE 1 TO ERR-SW
060400         MOVE "***** " TO PLT-AST (SUB).
060500     GO TO 601-LOOP.
060600 600-EXIT.
060700     EXIT.
060800 610-DB-PLANT.
060900     MOVE ZERO TO ERR-FLG.
061000     MOVE HLD-PLANT-CD TO DE-CD-8822-DEC.
061100     MOVE 2646 TO DE-NO-8801-DEC.
061200     FIND ANY CODE-DEC.
061300     MOVE DB-STATUS TO DATA-BASE-STATUS.
061400     IF NOT OK
061500         MOVE 1 TO ERR-FLG
061600         GO TO 610-EXIT.
061700     GET CODE-DEC.
061800     MOVE DB-STATUS TO DATA-BASE-STATUS.
061900     IF NOT OK
062000         MOVE 1 TO ERR-FLG
062100         GO TO 610-EXIT.
062200     MOVE CODE-DEC TO CODE-DEC-H.
062300     IF PLANT-TYP-H NOT = "F" AND "G" AND "T" AND "S"
062400         MOVE 2 TO ERR-FLG
062500         GO TO 610-EXIT.
062600     MOVE PLANT-TYP-H TO HLD-TYPS (SUB).
062700 610-EXIT.
062800     EXIT.
062900 620-PRINT.
063000     MOVE 0 TO ERR-SW.
063100     IF LINE-CNT-2 > 50
063200         MOVE 5 TO LINE-CNT-2
063300         ADD 1 TO PG-CNT-2
063400         MOVE PG-CNT-2 TO HDR-PG
063500         WRITE PRINT-REC-2 FROM P-SPACE BEFORE PAGE
063600         WRITE PRINT-REC-2 FROM HDR-1
063700         AFTER 1 LINE
063800         WRITE PRINT-REC-2 FROM HDR-2 AFTER 2 LINES
063900         WRITE PRINT-REC-2 FROM HDR-5
064000         AFTER 1 LINE.
064100     MOVE RCD-V7 TO DET-1.
064200     WRITE PRINT-REC-2 FROM DET-1
064300         AFTER 1 LINE.
064400     WRITE PRINT-REC-2 FROM DET-2 AFTER 2 LINES.
064500     MOVE SPACE TO DET-2.
064600     ADD 3 TO LINE-CNT-2.
064700 620-EXIT.

```

```

064800     EXIT.
064900 700-CLOSE.
065000     CLOSE FILE-V7, ADW-FCTR-FILE.
065100 800-INPUT SECTION.
065200 810-OPEN.
065300     OPEN INPUT ADW-FCTR-FILE.
065400 820-READ.
065500     READ ADW-FCTR-FILE AT END
065600         GO TO 840-EXIT.
065700     MOVE SPACE TO SORT-FOUR.
065800     MOVE ADW-FCTR-REC TO SR-DATA.
065900     MOVE SDRP-V6P TO SDRP-SR.
066000     MOVE REC-TYP-V6P TO REC-TYP-SR.
066100     MOVE PLANT-SYM-V6P TO PLT-SR.
066200     MOVE ACT-V6P TO A-B-CD-SR.
066300     IF REC-TYP-V6P = "V6"
066400         MOVE PLANT-TYP-V6 TO PLANT-TYP-H
066500         MOVE PHENO-V6P TO PHENO-SR.
066600     IF REC-TYP-V6P = "VP"
066700         MOVE PLANT-TYP-VP TO PLANT-TYP-H
066800         MOVE SPACE TO PHENO-SR.
066900     IF PLANT-TYP-H = "G" MOVE "1" TO PLT-TYP-SR.
067000     IF PLANT-TYP-H = "F" MOVE "2" TO PLT-TYP-SR.
067100     IF PLANT-TYP-H = "S" OR "T" MOVE "3" TO PLT-TYP-SR.
067200     RELEASE SORT-FOUR.
067300     ADD 1 TO CNT-16.
067400     GO TO 820-READ.
067500 840-EXIT.
067600     EXIT.
067700 900-OUTPUT SECTION.
067800 910-OPEN.
067900     CLOSE ADW-FCTR-FILE.
068000     OPEN OUTPUT ADW-FCTR-FILE.
068100 920-RETURN.
068200     RETURN SORT-FILE AT END
068300         GO TO 970-EXIT.
068400     MOVE SR-DATA TO ADW-FCTR-REC.
068500     IF RTN-SW = ZERO
068600         MOVE 1 TO RTN-SW
068700         MOVE SDRP-SR TO SDRP-H.
068800     IF (A-B-CD-SR = "A") AND (REC-TYP-SR = "V6")
068900         MOVE PLT-SR TO PLT-BY-V6
069000         MOVE PHENO-SR TO PHENO-BY-V6.
069100     IF (A-B-CD-SR = "A") AND (REC-TYP-SR = "VP")
069200         MOVE PLT-SR TO PLT-BY-VP
069300         MOVE PHENO-SR TO PHENO-BY-VP.
069400     IF (SDRP-SR NOT = SDRP-H)
069500         MOVE SDRP-SR TO SDRP-H
069600         GO TO 950-WRITE.
069700     IF (A-B-CD-SR = "B") AND (REC-TYP-SR = "V6")
069800         AND (PLT-PHENO-SR = V6-BYPASS-HLD)
069900         ADD 1 TO CNT-12
070000         GO TO 960-CK-DISP.
070100     IF (A-B-CD-SR = "B") AND (REC-TYP-SR = "VP")
070200         AND (PLT-PHENO-SR = VP-BYPASS-HLD)
070300         ADD 1 TO CNT-13
070400         GO TO 960-CK-DISP.

```



```

070500 950-WRITE.
070600     IF REC-TYP-V6P = "VP"
070700         ADD 1 TO CNT-15.
070800     IF REC-TYP-V6P = "V6"
070900         ADD 1 TO CNT-14.
071000     WRITE ADW-FCTR-REC.
071100     GO TO 920-RETURN.
071200 960-CK-DISP.
071300     IF (FIRST-BY-SW = ZERO)
071400         MOVE 1 TO FIRST-BY-SW
071500         DISPLAY " "
071600         DISPLAY BY-MSG
071700         DISPLAY " "
071800         DISPLAY BY-HDR
071900         DISPLAY " ".
072000     IF PLANT-DISP NOT = PLT-SR
072100         MOVE PLT-SR TO PLANT-DISP
072200         MOVE ST-SR TO ST-BY
072300         MOVE DS-SR TO DS-BY
072400         MOVE RA-SR TO RA-BY
072500         MOVE PU-SR TO PU-BY
072600         MOVE PLT-SR TO PLT-BY
072700         MOVE REC-TYP-SR TO REC-BY
072800         DISPLAY BY-DISP.
072900     GO TO 920-RETURN.
073000 970-EXIT.
073100     EXIT.
073200 999-DUMMY SECTION.
073300 999-EXIT.
073400     EXIT.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES130M.
000300*     CREATES SPECIES ADJUSTMENT FACTOR RECORD (SEE REMARKS)
000400*
000500 AUTHOR. RON BAKER.
000600*REMARKS.  CALCULATES PERCENT PRODUCTION/ADJUSTMENT
000700*     FACTOR BY PHENOLOGY STAGE & STORES SPEC-ADJ-FCTR-
000800*     REC-PSA RECORD.  INPUT IS ES127MD1.
000900*     CALCULATIONS ARE ACCORDING TO P030 OF
001000*     ESI USERS GUIDE.
001100*     ALL PHRASES WITH "*" ON COL. 7 ARE USED FOR DEBUGGING.
001200*
001300 DATE-WRITTEN. 09/13/79.
001400 DATE-COMPILED.
001500 ENVIRONMENT DIVISION.
001600 CONFIGURATION SECTION.
001700 SOURCE-COMPUTER. LEVEL-66-ASCII.
001800 OBJECT-COMPUTER. LEVEL-66-ASCII.
001900 INPUT-OUTPUT SECTION.
002000 FILE-CONTROL.
002100     SELECT FILE-I1-I2             ASSIGN TO D1-D2
002200     ORGANIZATION IS INDEXED
002300     ACCESS MODE IS DYNAMIC
002400     RECORD KEY IS INDEX-KEY
002500     FILE STATUS IS FILE-STATUS.
002600     SELECT FILE-D1             ASSIGN TO I1

```

002700 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
002800 SELECT FILE-P1 ASSIGN TO P1  
002900 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003000 SELECT SORT-WORK ASSIGN Z1.  
003100 DATA DIVISION.  
003200 FILE SECTION.  
003300 FD FILE-D1  
003400 CODE-SET IS GBCD  
003500 LABEL RECORDS ARE STANDARD  
003600 DATA RECORD IS FDR-D1.  
003700 01 FDR-D1 PIC X(66).  
003800 FD FILE-I1-I2  
003900  
004000 LABEL RECORDS ARE STANDARD  
004100 BLOCK CONTAINS 8960 CHARACTERS  
004200 RECORD CONTAINS 72 CHARACTERS  
004300 DATA RECORD IS FDR-I1-I2.  
004400 01 FDR-I1-I2.  
004500 03 INDEX-KEY.  
004600 05 SDRP-I1-I2 PIC X(8).  
004700 05 PLANT-TYP-I1-I2 PIC 9.  
004800 05 PLANT-CD-I1-I2 PIC X(7).  
004900 03 DATA-I1-I2 PIC X(56).  
005000 SD SORT-WORK  
005100 DATA RECORD IS SORT-RCD.  
005200 01 SORT-RCD.  
005300 02 SR-KEY.  
005400 03 SDRP-SR PIC X(8).  
005500 03 PLT-TYP-SR PIC X.  
005600 03 PLT-PHENO-SR.  
005700 05 PLT-SR PIC X(7).  
005800 05 PHENO-SR PIC X.  
005900 03 A-B-CD-SR PIC X.  
006000 03 REC-TYP-SR PIC XXXX.  
006100 02 SR-DATA PIC X(66).  
006200 FD FILE-P1  
006300 CODE-SET IS GBCD  
006400 LABEL RECORDS ARE STANDARD  
006500 DATA RECORD IS FDR-P1.  
006600 01 FDR-P1 PIC X(132).  
006700 WORKING-STORAGE SECTION.  
006800 01 FILE-STATUS.  
006900 03 MAJOR-STATUS PIC X.  
007000 03 MINOR-STATUS PIC X.  
007100 77 I PIC 9(2) VALUE ZERO.  
007200 77 CNT-1 PIC 9(6) VALUE ZERO.  
007300 77 CNT-2 PIC 9(6) VALUE ZERO.  
007400 77 DDD PIC Z,ZZZ,ZZZ.ZZZZZZ.  
007500 77 EEE PIC Z,ZZZ,ZZZ.ZZZZZZ.  
007600 77 FFF PIC Z,ZZZ,ZZZ.ZZZZZZ.  
007700 77 GGG PIC Z,ZZZ,ZZZ.ZZZZZZ.  
007800 77 HHH PIC Z,ZZZ,ZZZ.ZZZZZZ.  
007900 77 MMTOT PIC 9(5)V9(6).  
008000 77 MMQTR PIC 9(5)V9(6).  
008100 77 QTRPIE PIC 9(5)V9(6).  
008200 77 MAX-GRAMS PIC 9(7)V9(6) VALUE ZERO.  
008300 77 GRAMS-PER-FT PIC 9(7)V9(6) VALUE ZERO.

```

008400 77 MIN-TEMP PIC 9(5)V9(4).
008500 77 MAX-TEMP PIC 9(5)V9(4).
008600 77 SQ-FT-TEMP PIC 9(5)V9(4) VALUE ZERO.
008700 77 LIN-CHK PIC 99 COMP-4.
008800 77 LIN-CNT PIC 99 COMP-4.
008900 77 PHNO-CNT PIC 99 COMP-4.
009000 77 PAG-CNT PIC 999 COMP-4.
009100 77 VP-PLT-CD-HLD PIC X(7) VALUE SPACE.
009200 77 PUF-CNT PIC 999 COMP-4.
009300 77 AUF-CNT PIC 999 COMP-4.
009400 77 ADW-HLD PIC 9(4)V99 VALUE ZERO.
009500 77 PCT-HLD PIC 999 VALUE ZERO.
009600 77 PHNO-STG-HLD PIC 9 VALUE ZERO.
009700 77 REC-CNT-PHNO-STG PIC 9999 VALUE ZERO.
009800 77 REC-CNT-PLANT-TOT PIC 9999 VALUE ZERO.
009900 77 PCT-TOT-HLD PIC 9(5) VALUE ZERO.
010000 77 PCT-TOT-PHNO-STG PIC 9(5) VALUE ZERO.
010100 77 PNNO-SW PIC 9 VALUE ZERO.
010200 77 DISPLAY-SW PIC 9 VALUE 0 COMP-4.
010300 77 FIRST-SW PIC 9 VALUE 1 COMP-4.
010400 77 SUB PIC 99 COMP-4.
010500 77 PHNO-SUB PIC 9 COMP-4.
010600 01 VP-BYPASS-HLD.
010700 03 PLT-BY-VP PIC X(7).
010800 03 PHENO-BY-VP PIC X.
010900 01 V6-BYPASS-HLD.
011000 03 PLT-BY-V6 PIC X(7).
011100 03 PHENO-BY-V6 PIC X.
011200*****
011300* "VP" PHENOLOGY ADJUSTMENT DATA.
011500 01 REC-VP-X.
011600 05 KEY-VP-X.
011700 10 DIC-VP-X.
011800 15 REC-TYP-3529-VP-X PIC X(2).
011900 15 FMT-NUM-3576-VP-X PIC X(1).
012000 15 FMT-CD-3579-VP-X PIC X(1).
012100 10 BLM-ADM-U-0003-VP-X.
012200 15 BLM-ADM-U-0003-ST-VP-X PIC X(2).
012300 15 BLM-ADM-U-0003-DIST-VP-X PIC X(2).
012400 15 BLM-ADM-U-0003-RA-VP-X PIC X(2).
012500 15 BLM-ADM-U-0003-PLU-VP-X PIC X(2).
012600 10 DATA-DATE-6618-VP-X.
012700 15 DATA-DATE-6618-YY-VP-X PIC X(2).
012800 15 DATA-DATE-6618-MM-VP-X PIC X(2).
012900 15 DATA-DATE-6618-DD-VP-X PIC X(2).
013000 10 ACTN-CD-7350-VP-X PIC X(1).
013100 10 LIN-NUM-3578-VP-X PIC X(4).
013200*- - - - -
013300 05 PLANT-CD-2646-VP-X PIC X(7).
013400 05 PHNO-GP-VP-X PIC X(32).
013500 05 PHNO-ADJ-GP-VP-X REDEFINES PHNO-GP-VP-X.
013600 07 PHNO-ADJ-VP-X OCCURS 8 TIMES.
013700 09 PHNO-ADJ-1-VP-X PIC XX.
013800 09 PHNO-ADJ-2-VP-X PIC XX.
013900 05 PHNO-ADJ-FCTR-3545-VP-X REDEFINES PHNO-GP-VP-X
014000 OCCURS 8 TIMES PIC 99V99.
014100 05 PLANT-TYP-3590-VP-X PIC X.

```

```

014200      05  FILLER                      PIC XXX.
014500*    "V6" DRY/GREEN WEIGHT CONVERSION FACTOR DATA.
014700 01  REC-V6-X.
014800      05  KEY-V6-X.
014900      10  DIC-V6-X.
015000      15  REC-TYP-3529-V6-X           PIC X(2).
015100      15  FMT-NUM-3576-V6-X         PIC X(1).
015200      15  FMT-CD-3579-V6-X         PIC X(1).
015300      10  BLM-ADM-U-0003-V6-X.
015400      15  BLM-ADM-U-0003-ST-V6-X     PIC X(2).
015500      15  BLM-ADM-U-0003-DIST-V6-X  PIC X(2).
015600      15  BLM-ADM-U-0003-RA-V6-X   PIC X(2).
015700      15  BLM-ADM-U-0003-PLU-V6-X  PIC X(2).
015800      10  DATA-DATE-6618-V6-X.
015900      15  DATA-DATE-6618-YY-V6-X  PIC X(2).
016000      15  DATA-DATE-6618-MM-V6-X  PIC X(2).
016100      15  DATA-DATE-6618-DD-V6-X  PIC X(2).
016200      10  ACTN-CD-7350-V6-X        PIC X(1).
016300      10  LIN-NUM-3578-V6-X        PIC X(4).
016400*- - - - -
016500      05  PLANT-CD-2646-V6-X        PIC X(7).
016600      05  PHNO-STG-CD-3712-V6-X    PIC 9(1).
016700      05  GRAMS-GRN-WGT-3941-V6-X  PIC 9(4).
016800      05  ADW-PCT-3546-V6-X        PIC 9V99.
016900      05  ADW-PCT-V6-X-RD REDEFINES ADW-PCT-3546-V6-X PIC 999.
017000      05  GRAMS-DRY-WGT-3942-V6-X  PIC 9(4).
017100      05  GRP-1-V6-X.
017200      07  BASAL-DIMS-3533-MIN-V6-X  PIC 99V99.
017300      07  BASAL-DIMS-3533-MAX-V6-X  PIC 99V99.
017400      07  CROWN-DIMS-3534-MIN-V6-X  PIC 99V9.
017500      07  CROWN-DIMS-3534-MAX-V6-X  PIC 99V9.
017600      07  HGT-AVG-3504-V6-X        PIC 999V9.
017700      07  AVG-LDR-LGT-7313-V6-X    PIC 99V9.
017800      05  GRP-1-RD-V6-X REDEFINES GRP-1-V6-X.
017900      07  BASAL-DIMS-MIN-V6-X.
018000      09  BAD-MIN-1-V6-X          PIC XX.
018100      09  BAD-MIN-2-V6-X          PIC XX.
018200      07  BASAL-DIMS-MAX-V6-X.
018300      09  BAD-MAX-1-V6-X          PIC XX.
018400      09  BAD-MAX-2-V6-X          PIC XX.
018500      07  CROWN-DIMS-MIN-V6-X.
018600      09  CRD-MIN-1-V6-X          PIC XX.
018700      09  CRD-MIN-2-V6-X          PIC X.
018800      07  CROWN-DIMS-MAX-V6-X.
018900      09  CRD-MAX-1-V6-X          PIC XX.
019000      09  CRD-MAX-2-V6-X          PIC X.
019100      07  HGT-AVG-V6-X.
019200      09  HGT-AVG-1-V6-X          PIC XXX.
019300      09  HGT-AVG-2-V6-X          PIC X.
019400      07  AVG-LDR-V6-X.
019500      09  AVG-LDR-1-V6-X          PIC XX.
019600      09  AVG-LDR-2-V6-X          PIC X.
019700      05  PLANT-TYP-V6-X          PIC X.
019800      05  REC-CNT-V6-X          PIC 99.
019900*****
020000 01  SPEC-AFR.
020100      03  SDRP-AFR                PIC X(8).

```

```

020200      03  PLANT-TYP-AFR      PIC X.
020300      03  PLANT-CD-AFR      PIC X(7).
020400      03  ADW-PCT-GP-AFR     PIC X(24).
020500      03  ADW-PCT-AFR REDEFINES ADW-PCT-GP-AFR
020600          OCCURS 8 TIMES     PIC 999.
020700      03  PAF-GP-AFR        PIC X(32).
020800      03  PAF-AFR REDEFINES PAF-GP-AFR
020900          OCCURS 8 TIMES     PIC 99V99.
021000*****
021100 01  HDR-1.
021200      05  FILLER  PIC X(24)  VALUE "      PCN: ES140M  AS OF ".
021300      05  HDR-DD          PIC XX.
021400      05  FILLER          PIC X          VALUE SPACE.
021500      05  HDR-MMM         PIC XXX.
021600      05  FILLER          PIC X          VALUE SPACE.
021700      05  HDR-YR         PIC XX.
021800      05  FILLER          PIC X(09)     VALUE SPACES.
021900      05  FILLER          PIC X(48)     VALUE
022000          "USDI- BUR OF LAND MGT ECOLOGICAL SITE INVENTORY".
022100      05  FILLER          PIC X(31)     VALUE SPACES.
022200      05  FILLER          PIC X(5)      VALUE "PAGE:".
022300      05  HDR-PG         PIC ZZZZZ9.
022400 01  HDR-2.
022500      05  FILLER          PIC X(17)     VALUE SPACES.
022600      05  FILLER          PIC X(8)      VALUE "STATE: ".
022700      05  HDR-ST-NM       PIC X(10).
022800      05  FILLER          PIC X(16)     VALUE SPACES.
022900      05  FILLER          PIC X(7)     VALUE "DIST: ".
023000      05  HDR-DIST-NM     PIC X(15).
023100      05  FILLER          PIC X(5)     VALUE SPACES.
023200      05  RMK-HDR-2  PIC X(40)  VALUE SPACE.
023300      05  FILLER          PIC X(9)     VALUE SPACES.
023400 01  HDR-3      PIC X(132).
023500 01  HDR-4      PIC X(132).
023600 01  FDR-D1-WK.
023700      03  CNTL-D1.
023800          05  REC-TYP-D1  PIC XXXX.
023900          05  SDRP-D1.
024000          07  SDR-D1.
024100          09  SD-D1.
024200          11  ST-D1  PIC XX.
024300          11  DIST-D1  PIC XX.
024400          09  RA-D1  PIC XX.
024500          07  PLU-D1  PIC XX.
024600          05  DATE-D1  PIC X(6).
024700          05  ACTN-D1  PIC X.
024800          05  LINE-D1  PIC XXXX.
024900          05  PLANT-CD-D1  PIC X(7).
025000          05  PHENO-D1  PIC X.
025100      03  DATA-D1.
025200          05  FILLER  PIC X(31).
025300          05  PLANT-TYP-VP-D1  PIC X.
025400          05  PLANT-TYP-V6-D1  PIC X.
025500          05  REC-CNT-V6-D1  PIC 99.
025600 01  CNTL-HLD.
025700      03  REC-TYP-HLD  PIC XXXX.
025800      03  SDRP-HLD.

```

025900           05   SDR-HLD.  
026000           07   SD-HLD.  
026100                   09   ST-HLD           PIC XX.  
026200                   09   DIST-HLD           PIC XX.  
026300           07   RA-HLD           PIC XX.  
026400           05   PLU-HLD           PIC XX.  
026500           03   DATE-HLD   PIC X(6).  
026600           03   ACTN-HLD   PIC X.  
026700           03   LINE-HLD   PIC XXXX.  
026800           03   PLANT-CD-HLD   PIC X(7).  
026900           03   PHENO-HLD   PIC X.  
027000 01 HLD-NAMES.  
027100           03   FUNC-HLD.  
027200           05   ST-NM-HLD   PIC X(10).  
027300           05   FILLER       PIC X(14).  
027400           03   EXPL-HLD.  
027500           05   DIST-NM-HLD   PIC X(11).  
027600           05   FILLER       PIC X.  
027700           05   RA-NM-HLD   PIC X(12).  
027800           05   FILLER       PIC X.  
027900           05   PU-NM-HLD   PIC X(15).  
028000           05   FILLER       PIC X.  
028100 01 HOLD-AREA.  
028200           03   CT-CODE-TABLE-H.  
028300           05   FILLER   PIC XXXX.  
028400           05   PLANT-CD-H   PIC X(7).  
028500           05   FILLER   PIC X(24).  
028600           05   PLANT-TYP-H   PIC X.  
028700           03   CT-FUNC-NAM-H.  
028800           05   DIST-NAM-H   PIC X(15).  
028900           05   FILLER   PIC X(9).  
029000           03   HLD-PLANT-CD   PIC X(7).  
029100           03   HLD-PLANT-TYP   PIC X.  
029200           03   HLD-ANML-CD   PIC XX.  
029300           03   DAT-H.  
029400           05   YER-H   PIC XX.  
029500           05   MON-H   PIC 99.  
029600           05   DAY-H   PIC XX.  
029700           03   DATA-DATE-VP-HLD.  
029800           05   DATA-YER-VP-HLD   PIC XX.  
029900           05   DATA-MON-VP-HLD   PIC XX.  
030000           05   DATA-DAY-VP-HLD   PIC XX.  
030100           03   D-DATE-CHK.  
030200           05   D-YER-CHK   PIC XX.  
030300           05   D-MON-CHK   PIC XX.  
030400           05   D-DAY-CHK   PIC XX.  
030500           03   JDAY-H   PIC 9(5).  
030600           03   JDAY-P0-H   PIC 9(5).  
030700           03   J9-H   REDEFINES   JDAY-P0-H.  
030800           05   1ST-2C-JDAY-P0-H   PIC 99.  
030900           05   LST-3C-JDAY-P0-H   PIC 999.  
031000           03   CNTS-IGB.  
031100           05   CNT-VPI   PIC 9(5)   VALUE ZERO.  
031200           05   FILLER   PIC XX   VALUE SPACE.  
031300           05   CNT-V6I   PIC 9(5)   VALUE ZERO.  
031400           05   FILLER   PIC XX   VALUE SPACE.  
031500           05   CNT-SUM   PIC 9(5)   VALUE ZERO.

```

031600          05 FILLER   PIC XX VALUE SPACE.
031700 01  TABL-AREA.
031800          03 MON-V   PIC X(36) VALUE "JANFEBMARAPRMAYJUNJULAUGSEPOCT
031900-                                     "NOVDEC".
032000          03 MON-T   REDEFINES MON-V PIC XXX OCCURS 12 TIMES.
032100 01  BASAL-CROWN-AREA-PER-STG.
032200          03 RECNT OCCURS 8 TIMES PIC 9(5)V9(4).
032300*
032400*
032500 01  WGT-PER-STG.
032600          03 GPF-TOT OCCURS 8 TIMES PIC 9(7)V9(4).
032700*
032800*
032900 01  GRAMS-PER-SQ-FT.
033000          03 GRAMS-FT OCCURS 8 TIMES PIC 9(7)V9(4).
033100*
033200*
033300 01  PERCENT-PER-STG.
033400          03 PERSENT OCCURS 8 TIMES PIC 9(3)V9(4).
033500 01  ADW-PCT-TAB.
033600          03 ADW-PCT OCCURS 8 TIMES PIC 9(3).
033700*
033800*
033900 01  FINISHED      PIC X(4).
034000          88 DONE          VALUE " ".
034100*
034200*
034300 01  ADJ-FACTOR.
034400          03 ADJ-FAC OCCURS 8 TIMES PIC 99V99.
034500*
034600*
034700 01  V61Z-KEY.
034800          03 ADST      PIC X(2).
034900          03 DIST      PIC 9(2).
035000          03 RA        PIC 9(2).
035100          03 PLU        PIC 9(2).
035200*
035300*
035400 01  CROWN.
035500          03 CRN1      PIC X(3).
035600          03 CRN2 REDEFINES CRN1 PIC 99V9.
035700*
035800*
035900 01  BASAL.
036000          03 BSL1      PIC X(4).
036100          03 BSL2 REDEFINES BSL1 PIC 99V99.
036200*
036300 01  P-SPACE      PIC X(132) VALUE SPACE.
036400  PROCEDURE DIVISION.
036500 000-HOUSEKEEPING SECTION.
036600 000-BEGIN.
036700          ACCEPT DAT-H FROM DATE. ACCEPT JDAY-H FROM DAY.
036800          MOVE DAY-H TO HDR-DD. MOVE MON-T (MON-H) TO HDR-MMM.
036900          MOVE YER-H TO HDR-YR.
037000          MOVE SPACE TO SPEC-AFR.
037100          INITIALIZE BASAL-CROWN-AREA-PER-STG
037200          WGT-PER-STG

```

```

037300          GRAMS-PER-SQ-FT
037400          PERCENT-PER-STG
037500          I
037600          MAX-TEMP
037700          MIN-TEMP
037800          MAX-GRAMS
037900          ADJ-FACTOR
038000          ADW-PCT-TAB
038100          SQ-FT-TEMP.
038200 100-SORT SECTION.
038300 110-SORT-VERB.
038400          SORT SORT-WORK
038500          ASCENDING KEY SR-KEY
038600          INPUT PROCEDURE 200-INPUT
038700          OUTPUT PROCEDURE 300-OUTPUT.
038800 150-END.
038900          CLOSE FILE-D1.
039000          CLOSE FILE-I1-I2.
039100          STOP RUN.
039200 200-INPUT SECTION.
039300 210-OPEN.
039400          OPEN INPUT FILE-D1.
039500          OPEN OUTPUT FILE-I1-I2.
039600          READ FILE-D1 AT END STOP RUN.
039700          MOVE FDR-D1 TO FDR-D1-WK.
039800          GO TO 230-BUILD-SORT.
039900 210-READ.
040000          READ FILE-D1 AT END
040100          GO TO 240-EXIT.
040200          MOVE FDR-D1 TO FDR-D1-WK.
040300          GO TO 230-BUILD-SORT.
040400 230-BUILD-SORT.
040500          IF REC-TYP-D1 = "VP1D" OR "V61D" NEXT SENTENCE ELSE
040600          GO TO 210-READ.
040700*          IF PLANT-CD-D1 NOT = "AGSM  " AND "SPGR  "
040800*          GO TO 210-READ.
040900*          IF PLANT-CD-D1 NOT = "ALTE  "
041000*          GO TO 210-READ.
041100*          IF PLANT-CD-D1 NOT = "AGSM  "
041200*          GO TO 210-READ.
041300          MOVE SPACE TO SORT-RCD.
041400          MOVE FDR-D1-WK TO SR-DATA.
041500          MOVE SDRP-D1 TO SDRP-SR.
041600          MOVE REC-TYP-D1 TO REC-TYP-SR.
041700          MOVE PLANT-CD-D1 TO PLT-SR.
041800          MOVE ACTN-D1 TO A-B-CD-SR.
041900          IF REC-TYP-D1 = "V61D"
042000          ADD 1 TO CNT-V6I
042100          MOVE PLANT-TYP-V6-D1 TO PLANT-TYP-H
042200          MOVE PHENO-D1 TO PHENO-SR.
042300          IF REC-TYP-D1 = "VP1D"
042400          ADD 1 TO CNT-VPI
042500          MOVE PLANT-TYP-VP-D1 TO PLANT-TYP-H
042600          MOVE SPACE TO PHENO-SR.
042700          IF PLANT-TYP-H = "G" MOVE "1" TO PLT-TYP-SR.
042800          IF PLANT-TYP-H = "F" MOVE "2" TO PLT-TYP-SR.
042900          IF PLANT-TYP-H = "S" OR "T" MOVE "3" TO PLT-TYP-SR.

```



```

043000     RELEASE SORT-RCD.
043100     GO TO 210-READ.
043200 240-EXIT.
043300     EXIT.
043400 300-OUTPUT SECTION.
043500 310-RTN-FIRST.
043600     RETURN SORT-WORK AT END STOP RUN.
043700     ADD 1 TO CNT-1.
043800     MOVE SR-DATA TO FDR-D1-WK.
043900     MOVE CNTL-D1 TO CNTL-HLD.
044000     GO TO 400-PROCESS.
044100 320-END-PROC.
044200     PERFORM 415-CAL-ADW-PCT THRU 415-EXIT.
044300     PERFORM 500-FINAL-CALCS.
044400     PERFORM 700-BUILD-SPEC-REC.
044500     GO TO 800-EXIT.
044600 400-PROCESS.
044700     IF DISPLAY-SW = 1
044800         DISPLAY FDR-D1-WK.
044900*     IF THE KEY OR PLANT CODE CHANGES, CALCULATE & STORE THE
045000*         PLANT PREVIOUSLY COLLECTED.
045100     IF REC-TYP-SR = "VP1D"
045200         MOVE FDR-D1-WK TO REC-VP-X ELSE
045300         MOVE FDR-D1-WK TO REC-V6-X.
045400     IF (SDRP-SR NOT = SDRP-HLD)
045500         AND (FIRST-SW = 0)
045600         PERFORM 415-CAL-ADW-PCT THRU 415-EXIT
045700         GO TO 430-SUM.
045800     IF DISPLAY-SW = 1
045900         DISPLAY "SRK= " SR-KEY.
046000     IF (A-B-CD-SR = "A") AND (REC-TYP-SR = "V61D")
046100         MOVE PLT-SR TO PLT-BY-V6
046200         MOVE PHENO-SR TO PHENO-BY-V6.
046300     IF (A-B-CD-SR = "A") AND (REC-TYP-SR = "VP1D")
046400         MOVE PLT-SR TO PLT-BY-VP
046500         MOVE PHENO-SR TO PHENO-BY-VP.
046600     IF (A-B-CD-SR = "B") AND (REC-TYP-SR = "V61D")
046700         AND (PLT-PHENO-SR = V6-BYPASS-HLD)
046800*         DISPLAY "PASS " SR-DATA
046900         GO TO 420-RETURN.
047000     IF (A-B-CD-SR = "B") AND (REC-TYP-SR = "VP1D")
047100         AND (PLT-PHENO-SR = VP-BYPASS-HLD)
047200*         DISPLAY "PASS " SR-DATA
047300         GO TO 420-RETURN.
047400     IF (PLT-SR NOT = PLANT-CD-HLD)
047500         AND (FIRST-SW = 0)
047600         PERFORM 415-CAL-ADW-PCT THRU 415-EXIT
047700         GO TO 430-SUM.
047800     IF REC-TYP-SR = "VP1D"
047900         MOVE PLANT-TYP-3590-VP-X TO PLANT-TYP-H
048000         MOVE PLT-SR TO VP-PLT-CD-HLD
048100         MOVE PHNO-GP-VP-X TO ADJ-FACTOR
048200         GO TO 420-RETURN.
048300     IF (PHENO-SR NOT = PHNO-STG-HLD)
048400         AND (FIRST-SW = 0)
048500         PERFORM 415-CAL-ADW-PCT THRU 415-EXIT.
048600*

```

```

048700*      CALCULATE THE AIR DRY WEIGHT FOR EACH V6 RECORD.
048800*
048900      IF GRAMS-DRY-WGT-3942-V6-X = SPACE
049000          MOVE ZERO TO GRAMS-DRY-WGT-3942-V6-X.
049100      IF (ADW-PCT-3546-V6-X > ZERO) AND
049200          (GRAMS-DRY-WGT-3942-V6-X = ZERO)
049300          COMPUTE ADW-HLD ROUNDED = ADW-PCT-3546-V6-X *
049400              GRAMS-GRN-WGT-3941-V6-X
049500          MOVE ADW-HLD TO GRAMS-DRY-WGT-3942-V6-X
049600          ELSE
049700              MOVE GRAMS-DRY-WGT-3942-V6-X TO ADW-HLD.
049800      IF REC-CNT-V6-X = SPACE OR ZERO
049900          MOVE 01 TO REC-CNT-V6-X.
050000      ADD REC-CNT-V6-X TO REC-CNT-PHNO-STG.
050100      COMPUTE PCT-TOT-HLD = REC-CNT-V6-X * ADW-PCT-V6-X-RD.
050200      ADD PCT-TOT-HLD TO PCT-TOT-PHNO-STG.
050300      MOVE ZERO TO FIRST-SW.
050400 410-CAL-AREA.
050500      MOVE CNTL-D1 TO CNTL-HLD.
050600      MOVE PHENO-D1 TO PHNO-STG-HLD.
050700*
050800*      CALCULATE THE AREA PER PHENO STAGE OF THE INCOMING RECORD.
050900*
051000*      IF (SDRP-SR = "WY036829") AND (PLT-SR = "ALTE  ")
051100*          AND (DISPLAY-SW = ZERO)
051200*          MOVE 3 TO DISPLAY-SW.
051300      MOVE PLANT-TYP-V6-X TO PLANT-TYP-H.
051400      IF PLANT-TYP-V6-X = "G"
051500          MOVE BASAL-DIMS-MIN-V6-X TO BSL1
051600          MOVE BSL2 TO MIN-TEMP
051700          MOVE BASAL-DIMS-MAX-V6-X TO BSL1
051800          MOVE BSL2 TO MAX-TEMP
051900      ELSE
052000          MOVE CROWN-DIMS-MIN-V6-X TO CRN1
052100          MOVE CRN2 TO MIN-TEMP
052200          MOVE CROWN-DIMS-MAX-V6-X TO CRN1
052300          MOVE CRN2 TO MAX-TEMP.
052400      IF (PLANT-TYP-V6-X = "G")
052500          AND (MIN-TEMP = ZERO)
052600          MOVE CROWN-DIMS-MIN-V6-X TO CRN1
052700          MOVE CRN2 TO MIN-TEMP
052800          MOVE CROWN-DIMS-MAX-V6-X TO CRN1
052900          MOVE CRN2 TO MAX-TEMP.
053000      IF (PLANT-TYP-V6-X = "F" OR "S" OR "T")
053100          AND (MIN-TEMP = ZERO)
053200          MOVE BASAL-DIMS-MIN-V6-X TO BSL1
053300          MOVE BSL2 TO MIN-TEMP
053400          MOVE BASAL-DIMS-MAX-V6-X TO BSL1
053500          MOVE BSL2 TO MAX-TEMP.
053600      COMPUTE MMTOT ROUNDED = MIN-TEMP * MAX-TEMP.
053700      COMPUTE MMQTR ROUNDED = MMTOT / 4.
053800      COMPUTE QTRPIE ROUNDED = MMQTR * 3.1417.
053900      COMPUTE SQ-FT-TEMP ROUNDED = QTRPIE * REC-CNT-V6-X.
054000      MOVE MMTOT TO EEE.
054100      MOVE MMQTR TO FFF.
054200      MOVE QTRPIE TO GGG.
054300      MOVE SQ-FT-TEMP TO DDD.

```

```

054400     IF DISPLAY-SW = 1
054500     DISPLAY "SF=" DDD " QP=" GGG " MQ=" FFF " MT=" EEE.
054600*    ADD SQ-FT-TEMP TO RECNT (PHNO-STG-CD-3712-V6-X).
054700*    ADD ADW-HLD TO
054800*        GPF-TOT (PHNO-STG-CD-3712-V6-X).
054900     MOVE ZERO TO GRAMS-PER-FT.
055000     IF SQ-FT-TEMP NOT = ZERO
055100         COMPUTE GRAMS-PER-FT = ADW-HLD / SQ-FT-TEMP
055200         ADD 1 TO RECNT (PHNO-STG-CD-3712-V6-X)
055300         ADD GRAMS-PER-FT TO GPF-TOT (PHNO-STG-CD-3712-V6-X).
055400     IF DISPLAY-SW = 1
055500*    MOVE RECNT (PHNO-STG-CD-3712-V6-X) TO DDD
055600     MOVE GRAMS-PER-FT TO DDD
055700     MOVE GPF-TOT (PHNO-STG-CD-3712-V6-X) TO GGG
055800     DISPLAY "GPF" DDD " GRF-TOT=" GGG.
055900 420-RETURN.
056000     RETURN SORT-WORK AT END
056100         GO TO 320-END-PROC.
056200     ADD 1 TO CNT-1.
056300     MOVE SR-DATA TO FDR-D1-WK.
056400     GO TO 400-PROCESS.
056500 415-CAL-ADW-PCT.
056600     IF PCT-TOT-PHNO-STG = ZERO
056700         GO TO 415-EXIT.
056800     COMPUTE PCT-HLD ROUNDED = PCT-TOT-PHNO-STG /
056900                                     REC-CNT-PHNO-STG.
057000     MOVE PCT-HLD TO ADW-PCT (PHNO-STG-HLD).
057100     IF DISPLAY-SW = 2
057200         MOVE PCT-HLD TO DDD
057300         MOVE PCT-TOT-PHNO-STG TO EEE
057400         MOVE REC-CNT-PHNO-STG TO FFF
057500         DISPLAY "PH=" DDD " PT=" EEE " RC=" FFF.
057600     MOVE ZERO TO PCT-TOT-PHNO-STG REC-CNT-PHNO-STG.
057700 415-EXIT.
057800     EXIT.
057900 430-SUM.
058000     PERFORM 415-CAL-ADW-PCT THRU 415-EXIT.
058100     PERFORM 500-FINAL-CALCS.
058200     PERFORM 700-BUILD-SPEC-REC.
058300     PERFORM 750-INITIALIZE.
058400     GO TO 400-PROCESS.
058500     GO TO 400-PROCESS.
058600 500-FINAL-CALCS.
058700*    CALCULATE THE GRAMS PER SQ FT PER STAGE FOR PREVIOUSLY
058800*        COLLECTED PLANT. DETERMINE THE GRAMS PER SQ FT AT FULL
058900*        PRODUCTION (MAX-GRAMS).
059000     PERFORM 600-CALC-GRAMS VARYING I FROM 1 BY 1 UNTIL I > 8.
059100*    CALCULATE THE PERCENT PER PHENOLOGY STAGE FOR PREVIOUSLY
059200*        COLLECTED PLANT.
059300     PERFORM 610-CALC-PERCENT-OF-MAX VARYING I FROM 1 BY 1
059400         UNTIL I > 8.
059500     IF DISPLAY-SW = 1 OR 2 OR 3
059600     DISPLAY "PERCENTS OF MAX = " PERCENT-PER-STG.
059700*    CALCULATE THE ADJUSTMENT FACTOR PER STAGE FOR PREVIOUSLY
059800*        COLLECTED PLANT.
059900     PERFORM 620-CALC-ADJ VARYING I FROM 1 BY 1 UNTIL I > 8.
060000     IF DISPLAY-SW = 1 OR 2 OR 3

```

```

060100     DISPLAY "ADJ FACTORS = " ADJ-FACTOR.
060200 500-EXIT.
060300     EXIT.
060400 600-CALC-GRAMS.
060500     MOVE ZERO TO GRAMS-FT (I).
060600     IF RECNT (I) NOT = ZERO
060700         COMPUTE GRAMS-FT (I) = GPF-TOT (I) / RECNT (I).
060800     IF DISPLAY-SW = 1 OR 2 OR 3 AND (GRAMS-FT (I) > ZERO)
060900         MOVE GRAMS-FT (I) TO DDD
061000         MOVE GPF-TOT (I) TO EEE
061100         MOVE RECNT (I) TO FFF
061200         DISPLAY "GRAMS-FT (" I ") = " DDD
061300             " GPF-TOT (" I ") = " EEE
061400             " RECDS (" I ") = " FFF.
061500     IF RECNT (I) NOT = ZERO
061600         IF GRAMS-FT (I) > MAX-GRAMS
061700             MOVE GRAMS-FT (I) TO MAX-GRAMS.
061800 610-CALC-PERSENT-OF-MAX.
061900     MOVE ZERO TO PERSENT (I).
062000     IF GRAMS-FT (I) NOT = ZERO
062100         COMPUTE PERSENT (I) = GRAMS-FT (I) / MAX-GRAMS.
062200     IF DISPLAY-SW = 1 OR 2 OR 3 AND (PERSENT (I) > ZERO)
062300         MOVE PERSENT (I) TO DDD
062400         MOVE GRAMS-FT (I) TO EEE
062500         MOVE MAX-GRAMS TO FFF
062600         DISPLAY "PERSENT (" I ") = " DDD
062700             " GRAMS-FT (" I ") = " EEE
062800             " MAX-GRAMS = " FFF.
062900 620-CALC-ADJ.
063000     IF (PERSENT (I) NOT = ZERO)
063100         AND (ADJ-FAC (I) = ZERO OR SPACE)
063200         COMPUTE ADJ-FAC (I) ROUNDED = 1 / PERSENT (I).
063300     IF DISPLAY-SW = 1 OR 2 OR 3 AND (ADJ-FAC (I) > ZERO)
063400         MOVE PERSENT (I) TO DDD
063500         MOVE ADJ-FAC (I) TO EEE
063600         DISPLAY "PERSENT (" I ") = " DDD
063700             " ADJ-FAC (" I ") = " EEE.
063800 700-BUILD-SPEC-REC.
063900     MOVE SPACE TO SPEC-AFR.
064000     MOVE SDRP-HLD TO SDRP-AFR.
064100     MOVE PLANT-CD-HLD TO PLANT-CD-AFR
064200     IF PLANT-TYP-H = "G" MOVE "1" TO PLANT-TYP-AFR.
064300     IF PLANT-TYP-H = "F" MOVE "2" TO PLANT-TYP-AFR.
064400     IF PLANT-TYP-H = "S" OR "T" MOVE "3" TO PLANT-TYP-AFR.
064500     MOVE ADJ-FAC (1) TO PAF-AFR (1).
064600     MOVE ADJ-FAC (2) TO PAF-AFR (2).
064700     MOVE ADJ-FAC (3) TO PAF-AFR (3).
064800     MOVE ADJ-FAC (4) TO PAF-AFR (4).
064900     MOVE ADJ-FAC (5) TO PAF-AFR (5).
065000     MOVE ADJ-FAC (6) TO PAF-AFR (6).
065100     MOVE ADJ-FAC (7) TO PAF-AFR (7).
065200     MOVE ADJ-FAC (8) TO PAF-AFR (8).
065300     MOVE ADW-PCT (1) TO ADW-PCT-AFR (1).
065400     MOVE ADW-PCT (2) TO ADW-PCT-AFR (2).
065500     MOVE ADW-PCT (3) TO ADW-PCT-AFR (3).
065600     MOVE ADW-PCT (4) TO ADW-PCT-AFR (4).
065700     MOVE ADW-PCT (5) TO ADW-PCT-AFR (5).

```

```

065800 MOVE ADW-PCT (6) TO ADW-PCT-AFR (6).
065900 MOVE ADW-PCT (7) TO ADW-PCT-AFR (7).
066000 MOVE ADW-PCT (8) TO ADW-PCT-AFR (8).
066100 IF (DISPLAY-SW = 1 OR 2 OR 3)
066200     ADD 1 TO CNT-SUM
066300     DISPLAY SPEC-AFR.
066400* DISPLAY SPEC-AFR.
066500     ADD 1 TO CNT-2.
066600 MOVE SPEC-AFR TO FDR-I1-I2
066700 WRITE FDR-I1-I2 INVALID KEY
066800     DISPLAY INDEX-KEY FILE-STATUS.
066900     IF DISPLAY-SW = 1 OR 3 MOVE 0 TO DISPLAY-SW.
067000 750-INITIALIZE.
067100 MOVE CNTL-D1 TO CNTL-HLD.
067200 MOVE PHENO-SR TO PHNO-STG-HLD.
067300 INITIALIZE BASAL-CROWN-AREA-PER-STG
067400     WGT-PER-STG
067500     GRAMS-PER-SQ-FT
067600     PERCENT-PER-STG
067700     I
067800     MAX-TEMP
067900     MIN-TEMP
068000     MAX-GRAMS
068100     ADJ-FACTOR
068200     ADW-PCT-TAB
068300     SQ-FT-TEMP.
068400 800-EXIT.
068500     EXIT.
068600 900-DUMMY SECTION.
068700 999-END.
068800     STOP RUN.
068900*991.....2.....3.....4.....5.....6.....7..
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES208M.
000300*     CONVERTS NEW FORMAT VA RECORDS TO OLD FORMAT (D) RECORDS
000400*
000500 AUTHOR. GEORGIA BOSSE.
000600 INSTALLATION.           BLM.
000700 DATE-WRITTEN.           DECEMBER 1982.
000800*REMARKS.           VA CONVERSION-D
000900*     THE INPUT FILES ARE THE KEY ENTERED VA AND VB RECORDS.
001000*     VA = BLM FORM 4412-29 (APRIL 1982)
001100*     VB = BLM FORM 4412-30 (APRIL 1982)
001200*     THE OUTPUT IS FORMATTED LIKE THE KEY ENTERED VAID RECORDS
001300*     VAID = BLM FORM 4412-29 (JUNE 79)
001400*     THE PROGRAM SORTS THE VA FILE BY SWA INTO A TEMPORARY FIL
001500*     AND THEN SORTS THE VB FILE BY SWA.  THE TWO FILES ARE MAT
001600*     ON SWA# AND ALL VA RECORDS FOR WHICH THERE IS A MATCHING
001700*     VB RECORD ARE REFORMATTED INTO THE VAID FILE.  IF NO MATC
001800*     VB RECORD IS FOUND AN ERROR MESSAGE IS PRINTED AND THE PR
001900*     READS THE NEXT VA RECORD.  IF THE PROGRAM REACHES THE END
002000*     OF THE VB FILE WITHOUT MATCHING THE VA SWA OR FINDING A H
002100*     SWA THE PROGRAM PRINTS A MESSAGE AND TERMINATES.
002200 ENVIRONMENT DIVISION.
002300 CONFIGURATION SECTION.
002400 SOURCE-COMPUTER.           LEVEL-66-ASCII.

```

002500 OBJECT-COMPUTER.           LEVEL-66-ASCII SEQUENCE IS EBCDIC.  
002600 INPUT-OUTPUT SECTION.  
002700 FILE-CONTROL.  
002800       SELECT  VA1D-FILE  ASSIGN D1  
002900                    ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003000       SELECT  VA-FILE  ASSIGN I1  
003100                    ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003200       SELECT  VB-FILE  ASSIGN I2  
003300                    ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003400       SELECT VA-SORT-OUT-FILE ASSIGN DZ.  
003500       SELECT VA-SORT-FILE ASSIGN ASORT.  
003600       SELECT VB-SORT-FILE ASSIGN BSORT.  
003700 DATA DIVISION.  
003800 FILE SECTION.  
003900 FD  VA-FILE  
004000       CODE-SET IS GBCD  
004100       LABEL RECORDS ARE STANDARD  
004200       DATA RECORD IS VA-REC.  
004300  01  VA-REC.  
004400       03  PG-NUM-I1                    PIC 9999.  
004500       03  INV-CD-I1                    PIC XXXX.  
004600       03  REC-TYP-I1                    PIC XXX.  
004700       03  MAP-TYP-I1                    PIC XXX.  
004800       03  GEO-ST-I1                    PIC XX.  
004900       03  MER-I1                        PIC XX.  
005000       03  MAP-QUAD-I1                  PIC 9(8).  
005100       03  LIN-NUM-I1                    PIC 99.  
005200       03  ACT-I1                        PIC X.  
005300       03  SWA-I1                        PIC XXXX.  
005400       03  ACRES-I1                      PIC 9(5).  
005500       03  TR-ID-I1                      PIC X.  
005600       03  SECT-I1                       PIC 999.  
005700       03  TWP-I1                        PIC X(5).  
005800       03  RNG-I1                        PIC X(5).  
005900       03  SURF-OWN-I1                  PIC XXXX.  
006000       03  ADM-I1                       PIC X(4).  
006100       03  JURIS-I1                      PIC X(4).  
006200       03  TYP-I1                        PIC X(4).  
006300       03  FILLER                       PIC X(16).  
006400 FD  VB-FILE  
006500       CODE-SET IS GBCD  
006600       LABEL RECORDS ARE STANDARD  
006700       DATA RECORD IS VB-REC.  
006800  01  VB-REC.  
006900       03  PG-I2                         PIC X(4).  
007000       03  INV-CD-I2                    PIC X(4).  
007100       03  REC-TYP-I2                    PIC XXX.  
007200       03  RA-I2                         PIC XX.  
007300       03  PU-I2                         PIC XX.  
007400       03  ALLOT-I2                      PIC X(4).  
007500       03  PASTR-I2                      PIC XX.  
007600       03  LINE-NUM-I2                  PIC XX.  
007700       03  ACT-I2                        PIC X.  
007800       03  SWA-I2                        PIC X(4).  
007900       03  TRN-I2                        PIC XX.  
008000       03  PCT-SWA-I2                  PIC XXX.  
008100       03  STRAT-I2                      PIC X(4).

008200	03	CLMTC-ADJ-FCTR-I2	PIC 99V999.
008300	03	ELEV-I2	PIC X(5).
008400	03	PCT-SLP-I2	PIC XXX.
008500	03	SLP-ASPT-I2	PIC XX.
008600	03	LND-FRM-I2	PIC XXX.
008700	03	SOIL-PHS-I2	PIC X(6).
008800	03	FILLER	PIC X(23).
008900	FD	VA1D-FILE	
009000		CODE-SET IS GBCD	
009100		LABEL RECORDS ARE STANDARD	
009200		DATA RECORD IS VA1D-REC.	
009300	01	VA1D-REC.	
009400	03	REC-TYPE-D1	PIC X(4).
009500	03	STATE-DIST-D1	PIC X(4).
009600	03	RA-D1	PIC XX.
009700	03	PU-D1	PIC XX.
009800	03	ALLOT-D1	PIC X(4).
009900	03	PASTR-D1	PIC XX.
010000	03	DATE-D1	PIC X(6).
010100	03	ACT-D1	PIC X.
010200	03	MAP-SRC-D1	PIC X(4).
010300	03	MER-D1	PIC XX.
010400	03	LINE-NUM-D1	PIC X(4).
010500	03	TWP-D1	PIC X(5).
010600	03	RNG-D1	PIC X(5).
010700	03	SECT-D1	PIC XXX.
010800	03	SWA-D1	PIC X(4).
010900	03	QUARTERS-D1	PIC X(16).
011000	03	ACRES-D1	PIC X(5).
011100	03	SURF-OWN-D1	PIC X(4).
011200	03	JURIS-D1	PIC X(4).
011300	03	ADM-D1	PIC X(4).
011400	03	TYP-D1	PIC X(4).
011500	03	FIL	PIC X.
011600	FD	VA-SORT-OUT-FILE	
011700		LABEL RECORDS ARE STANDARD	
011800		DATA RECORD IS VA-SORT-OUT.	
011900	01	VA-SORT-OUT.	
012000	03	PG-NUM-SVA	PIC 9999.
012100	03	INV-CD-SVA	PIC XXXX.
012200	03	REC-TYP-SVA	PIC XXX.
012300	03	MAP-TYP-SVA	PIC XXX.
012400	03	GEO-ST-SVA	PIC XX.
012500	03	MER-SVA	PIC XX.
012600	03	MAP-QUAD-SVA	PIC 9(8).
012700	03	LIN-NUM-SVA	PIC 99.
012800	03	ACT-SVA	PIC X.
012900	03	SWA-SVA	PIC XXXX.
013000	03	ACRES-SVA	PIC 9(5).
013100	03	TR-ID-SVA	PIC X.
013200	03	SECT-SVA	PIC 999.
013300	03	TWP-SVA	PIC X(5).
013400	03	RNG-SVA	PIC X(5).
013500	03	SURF-OWN-SVA	PIC XXXX.
013600	03	ADM-SVA	PIC X(4).
013700	03	JURIS-SVA	PIC X(4).
013800	03	TYP-SVA	PIC X(4).

013900 03 FILLER PIC X(16).  
014000 SD VA-SORT-FILE  
014100 DATA RECORD IS VA-SORT-REC.  
014200 01 VA-SORT-REC.  
014300 03 FILLER PIC X(29).  
014400 03 SWA-IS-KEY PIC XXXX.  
014500 03 FILLER PIC X(51).  
014600 SD VB-SORT-FILE  
014700 DATA RECORD IS VB-SORT-REC.  
014800 01 VB-SORT-REC.  
014900 03 PG-SVB PIC X(4).  
015000 03 INV-SVB PIC X(4).  
015100 03 REC-TYP-SVB PIC XXX.  
015200 03 RA-SVB PIC XX.  
015300 03 PU-SVB PIC XX.  
015400 03 ALLOT-SVB PIC X(4).  
015500 03 PASTR-SVB PIC XX.  
015600 03 LINE-NUM-SVB PIC XX.  
015700 03 ACT-SVB PIC X.  
015800 03 SWA-SVB PIC X(4).  
015900 03 TRN-SVB PIC XX.  
016000 03 PCT-SWA-SVB PIC XXX.  
016100 03 STRAT-SVB PIC X(4).  
016200 03 CLMTC-ADJ-FCTR-SVB PIC 99V999.  
016300 03 ELEV-SVB PIC X(5).  
016400 03 PCT-SLP-SVB PIC XXX.  
016500 03 SLP-ASPT-SVB PIC XX.  
016600 03 LND-FRM-SVB PIC XXX.  
016700 03 SOIL-PHS-SVB PIC X(6).  
016800 03 FILLER PIC X(23).  
016900 WORKING-STORAGE SECTION.  
017000 77 ERR-CNT PIC 9 VALUE ZERO.  
017100 77 VALD-CNT PIC 99999 VALUE ZERO.  
017200 77 TODAYS-DATE PIC X(06).  
017300 01 INV-ST-DIST.  
017400 03 INVENTORY PIC XXXX.  
017500 03 STATE-DIST PIC X(4).  
017600 PROCEDURE DIVISION.  
017700 A100-HOUSE SECTION.  
017800 A100-HOUSEKEEPING.  
017900 ACCEPT TODAYS-DATE FROM DATE.  
018000 ACCEPT INV-ST-DIST.  
018100 B200-SORT-VA SECTION.  
018200 B210-SORT-VA.  
018300 SORT VA-SORT-FILE ON ASCENDING KEY  
018400 SWA-IS-KEY  
018500 INPUT PROCEDURE IS C300-INPUT-VA  
018600 GIVING VA-SORT-OUT-FILE.  
018700 B250-SORT-VB SECTION.  
018800 B260-SORT-VB.  
018900 CLOSE VA-FILE.  
019000 SORT VB-SORT-FILE ON ASCENDING KEY  
019100 SWA-SVB  
019200 INPUT PROCEDURE IS D400-INPUT-VB  
019300 OUTPUT PROCEDURE IS E600-OUTPUT.  
019400 B290-STOP.  
019500 CLOSE VALD-FILE VA-SORT-OUT-FILE.



```

019600     DISPLAY " OUTPUT RECORDS=" VA1D-CNT
019700     STOP RUN.
019800 C300-INPUT-VA SECTION.
019900 C310-OPEN.
020000     MOVE ZERO TO ERR-CNT.
020100     OPEN INPUT VA-FILE.
020200 C320-READ-VA-FILE.
020300     READ VA-FILE AT END
020400         GO TO C300-EXIT.
020500     IF REC-TYP-I1 NOT = "VA "
020600         ADD 1 TO ERR-CNT
020700         DISPLAY " INVALID REC-TYP-I1 " VA-REC
020800         IF ERR-CNT = 5
020900             DISPLAY " CHECK COMPLETE FILE - ABORT - "
021000             STOP RUN
021100             ELSE
021200             GO TO C320-READ-VA-FILE.
021300     IF INVENTORY NOT = INV-CD-I1
021400         DISPLAY " INVENTORY UNMATCHED WITH VA-REC"
021500         DISPLAY " INVENTORY REQUESTED= " INVENTORY
021600         DISPLAY "THIS FILE IS " INV-CD-I1
021700         STOP RUN.
021800     MOVE VA-REC TO VA-SORT-REC.
021900     RELEASE VA-SORT-REC.
022000     GO TO C320-READ-VA-FILE.
022100 C300-EXIT.
022200     EXIT.
022300 D400-INPUT-VB SECTION.
022400 D410-OPEN.
022500     MOVE ZERO TO ERR-CNT.
022600     OPEN INPUT VB-FILE.
022700 D420-READ-VB-FILE.
022800     READ VB-FILE AT END
022900         GO TO D400-EXIT.
023000     IF REC-TYP-I2 NOT = "VB "
023100         ADD 1 TO ERR-CNT
023200         DISPLAY " INVALID REC-TYP-I2 " VB-REC
023300         IF ERR-CNT = 5
023400             DISPLAY " CHECK COMPLETE FILE - ABORT - "
023500             STOP RUN
023600             ELSE
023700             GO TO D420-READ-VB-FILE.
023800     IF INVENTORY NOT = INV-CD-I2
023900         DISPLAY " INVENTORY UNMATCHED WITH VB-REC"
024000         DISPLAY " INVENTORY REQUESTED= " INVENTORY
024100         DISPLAY "THIS FILE IS " INV-CD-I2
024200         STOP RUN.
024300     MOVE VB-REC TO VB-SORT-REC.
024400     RELEASE VB-SORT-REC.
024500     GO TO D420-READ-VB-FILE.
024600 D400-EXIT.
024700     EXIT.
024800 E600-OUTPUT SECTION.
024900 E610-OPEN.
025000     OPEN INPUT VA-SORT-OUT-FILE.
025100     OPEN OUTPUT VA1D-FILE.
025200     CLOSE VB-FILE.

```

```

025300     RETURN VB-SORT-FILE AT END
025400         DISPLAY "VB SORT FILE ERROR"
025500         STOP RUN.
025600 E620-RETURN.
025700     READ VA-SORT-OUT-FILE AT END
025800         GO TO E600-EXIT.
025900     IF SWA-SVA > SWA-SVB
026000         PERFORM E680-FIND-MATCH.
026100     IF SWA-SVA < SWA-SVB
026200         DISPLAY "SWA #" SWA-SVA
026300         " ON THE VA FILE HAS NO MATCHING SWA ON THE VB FILE"
026400         GO TO E620-RETURN.
026500* MOVE STANDARD FILE DATA
026600     MOVE STATE-DIST TO STATE-DIST-D1.
026700     MOVE "A" TO ACT-D1.
026800     MOVE TODAYS-DATE TO DATE-D1.
026900     MOVE "VA1D" TO REC-TYPE-D1.
027000     MOVE SPACES TO QUARTERS-D1.
027100     MOVE ZEROES TO LINE-NUM-D1.
027200* MOVE DATA FROM VB-RECORD
027300     MOVE SWA-SVB TO SWA-D1.
027400     MOVE RA-SVB TO RA-D1.
027500     MOVE PU-SVB TO PU-D1.
027600     MOVE ALLOT-SVB TO ALLOT-D1.
027700     MOVE PASTR-SVB TO PASTR-D1.
027800* MOVE DATA FROM VA-RECORD
027900     IF MAP-TYP-SVA = "    "
028000         MOVE "MISC" TO MAP-SRC-D1.
028100     IF MAP-TYP-SVA = "TF  "
028200         MOVE "GS  " TO MAP-SRC-D1.
028300     IF MAP-TYP-SVA = "OQ  "
028400         MOVE "OR  " TO MAP-SRC-D1.
028500     IF MAP-TYP-SVA = "PL  "
028600         MOVE "PM  " TO MAP-SRC-D1.
028700     IF MAP-TYP-SVA = "BSP "
028800         MOVE "SP  " TO MAP-SRC-D1.
028900     MOVE MER-SVA TO MER-D1.
029000     MOVE TWP-SVA TO TWP-D1.
029100     MOVE RNG-SVA TO RNG-D1.
029200     MOVE SECT-SVA TO SECT-D1.
029300     MOVE ACRES-SVA TO ACRES-D1.
029400     MOVE SURF-OWN-SVA TO SURF-OWN-D1.
029500     MOVE JURIS-SVA TO JURIS-D1.
029600     MOVE ADM-SVA TO ADM-D1.
029700     MOVE TYP-SVA TO TYP-D1.
029800     WRITE VA1D-REC.
029900     ADD 1 TO VA1D-CNT.
030000     GO TO E620-RETURN.
030100 E680-FIND-MATCH.
030200     RETURN VB-SORT-FILE AT END
030300         DISPLAY "CURRENT VA FILE IS AT SWA #" SWA-SVA
030400         DISPLAY "THERE ARE NO MORE SWAS ON THE VB FILE"
030500         GO TO E600-EXIT.
030600     IF SWA-SVA > SWA-SVB
030700         GO TO E680-FIND-MATCH.
030800 E600-EXIT.
030900     EXIT.

```

```

031000 DUMMY SECTION.
031100 D900-END.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES210U.
000300*          INITIAL VA EDIT/UPDATE
000400*
000500 AUTHOR. CARLANDER.
000600 INSTALLATION.          BLM.
000700 DATE-WRITTEN.          SEPTEMBER, 1979.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER.      LEVEL-66-ASCII.
001100 OBJECT-COMPUTER.      LEVEL-66-ASCII SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400     SELECT NEW-FILE ASSIGN D1
001500           ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600     SELECT TRAN-FILE ASSIGN I1
001700           ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800     SELECT OPTIONAL PREV-FILE ASSIGN I2
001900           ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000     SELECT SORT-WORK ASSIGN I1 I2 I3.
002100*
002200 DATA DIVISION.
002300 FILE SECTION.
002400 FD  PREV-FILE
002500     CODE-SET IS GBCD
002600     LABEL RECORDS ARE STANDARD
002700     DATA RECORD IS VA1X-RCD.
002800 01  VA1X-RCD.
002900     02  KEY-VA1X.
003000         03  DIC-VA1X.
003100             04  REC-TYP-3529-VA1X    PIC X(02).
003200             04  FMT-NUM-3576-VA1X    PIC X(01).
003300             04  FMT-CD-3579-VA1X     PIC X(01).
003400         03  BLM-ADM-U-0003-VA1X.
003500             04  BLM-ADM-U-0003-ST-VA1X    PIC X(02).
003600             04  BLM-ADM-U-0003-DIST-VA1X  PIC X(02).
003700             04  BLM-ADM-U-0003-RA-VA1X    PIC X(02).
003800             04  BLM-ADM-U-0003-PLU-VA1X   PIC X(02).
003900         03  ALLOT-PAST-VA1X.
004000             05  ALLOT-NUM-0968-VA1X      PIC X(04).
004100             05  PASTURE-NUM-3905-VA1X    PIC X(02).
004200         03  DATA-DATE-6618-VA1X.
004300             04  DATA-DATE-6618-XY-VA1X   PIC X(02).
004400             04  DATA-DATE-6618-MM-VA1X   PIC X(02).
004500             04  DATA-DATE-6618-DD-VA1X   PIC X(02).
004600         03  ACTN-CD-7350-VA1X           PIC X(01).
004700         03  MAP-SRC-3540-VA1X          PIC X(04).
004800         03  MTR-MER-CD-1703-VA1X       PIC X(02).
004900         03  LIN-NUM-3578-VA1X          PIC X(04).
005000     02  MTR-TWNSHP-1695-VA1X          PIC X(05).
005100     02  MTR-RNG-1699-VA1X             PIC X(05).
005200     02  SEC-SECT-2506-VA1X           PIC X(03).
005300     02  SWA-3507-VA1X                PIC X(04).
005400     02  ALIQ-PART-2904-VA1X          PIC X(04) OCCURS 4.

```

005500	02	ACR-DU-6520-OWNR-VA1X	PIC X(05).
005600	02	OWN-TYP-2531-VA1X	PIC X(04).
005700	02	JURIS-2572-VA1X	PIC X(04).
005800	02	MGT-ADM-2570-VA1X	PIC X(04).
005900	02	LAND-TYP-3801-VA1X	PIC X(04).
006000	02	OPEN-VA1X	PIC X(01).
006100	SD	SORT-WORK	
006200		DATA RECORD IS SORT-RCD.	
006300	01	SORT-RCD.	
006400	03	CNTL-1-SR.	
006500	05	REC-TYP-SR PIC XXXX.	
006600	05	SDRP-SR PIC X(8).	
006700	05	ALLOT-PAST-SR PIC X(6).	
006800	03	FILLER PIC X(7).	
006900	03	DATA-1-SR.	
007000	05	MAP-SRC-SR PIC XXXX.	
007100	05	MTR-MER-CD-SR PIC XX.	
007200	03	LINE-SR PIC XXXX.	
007300	03	DATA-2-SR.	
007400	05	MTR-TWNSHP-SR PIC X(5).	
007500	05	MTR-RNG-SR PIC X(5).	
007600	05	SEC-SECT-SR PIC XXX.	
007700	05	SWA-SR PIC XXXX.	
007800	05	FILLER PIC X(37).	
007900	03	FILLER PIC X.	
008000	FD	TRAN-FILE	
008100		CODE-SET IS GBCD	
008200		LABEL RECORDS ARE STANDARD	
008300		DATA RECORD IS VA1K-RCD.	
008400	01	VA1K-RCD.	
008500	02	KEY-VA1K.	
008600	03	DIC-VA1K.	
008700	04	REC-TYP-3529-VA1K PIC X(02).	
008800	04	FMT-NUM-3576-VA1K PIC X(01).	
008900	04	FMT-CD-3579-VA1K PIC X(01).	
009000	03	BLM-ADM-U-0003-VA1K.	
009100	04	BLM-ADM-U-0003-ST-VA1K PIC X(02).	
009200	04	BLM-ADM-U-0003-DIST-VA1K PIC X(02).	
009300	04	BLM-ADM-U-0003-RA-VA1K PIC X(02).	
009400	04	BLM-ADM-U-0003-PLU-VA1K PIC X(02).	
009500	03	ALLOT-NUM-0968-VA1K PIC X(04).	
009600	03	PASTURE-NUM-3905-VA1K PIC X(02).	
009700	03	DATA-DATE-6618-VA1K.	
009800	04	DATA-DATE-6618-XY-VA1K PIC X(02).	
009900	04	DATA-DATE-6618-MM-VA1K PIC X(02).	
010000	04	DATA-DATE-6618-DD-VA1K PIC X(02).	
010100	03	ACTN-CD-7350-VA1K PIC X(01).	
010200	03	MAP-SRC-3540-VA1K PIC X(04).	
010300	03	MTR-MER-CD-1703-VA1K PIC X(02).	
010400	03	LIN-NUM-3578-VA1K PIC X(04).	
010500	02	MTR-TWNSHP-1695-VA1K PIC X(05).	
010600	02	MTR-RNG-1699-VA1K PIC X(05).	
010700	02	SEC-SECT-2506-VA1K PIC X(03).	
010800	02	SWA-3507-VA1K PIC X(04).	
010900	02	ALIQ-PART-2904-VA1K PIC X(04) OCCURS 4.	
011000	02	ACR-DU-6520-OWNR-VA1K PIC X(05).	
011100	02	OWN-TYP-2531-VA1K PIC X(04).	

011200	02	JURIS-2572-VA1K	PIC X(04).
011300	02	MGT-ADM-2570-VA1K	PIC X(04).
011400	02	LAND-TYP-3801-VA1K	PIC X(04).
011500	02	OPEN-VA1K	PIC X(01).
011600	FD	NEW-FILE	
011700		CODE-SET IS GBCD	
011800		LABEL RECORDS ARE STANDARD	
011900		DATA RECORD IS VA1Z-RCD.	
012000	01	VA1Z-RCD.	
012100	02	KEY-VA1Z.	
012200	03	DIC-VA1Z.	
012300	04	REC-TYP-3529-VA1Z	PIC X(02).
012400	04	FMT-NUM-3576-VA1Z	PIC X(01).
012500	04	FMT-CD-3579-VA1Z	PIC X(01).
012600	03	BLM-ADM-U-0003-VA1Z.	
012700	04	BLM-ADM-U-0003-ST-VA1Z	PIC X(02).
012800	04	BLM-ADM-U-0003-DIST-VA1Z	PIC X(02).
012900	04	BLM-ADM-U-0003-RA-VA1Z	PIC X(02).
013000	04	BLM-ADM-U-0003-PLU-VA1Z	PIC X(02).
013100	03	ALLOT-PAST-VA1Z.	
013200	05	ALLOT-NUM-0968-VA1Z	PIC X(04).
013300	05	PASTURE-NUM-3905-VA1Z	PIC X(02).
013400	03	DATA-DATE-6618-VA1Z.	
013500	04	DATA-DATE-6618-XY-VA1Z	PIC X(02).
013600	04	DATA-DATE-6618-MM-VA1Z	PIC X(02).
013700	04	DATA-DATE-6618-DD-VA1Z	PIC X(02).
013800	03	ACTN-CD-7350-VA1Z	PIC X(01).
013900	03	MAP-SRC-3540-VA1Z	PIC X(04).
014000	03	MTR-MER-CD-1703-VA1Z	PIC X(02).
014100	03	LIN-NUM-3578-VA1Z	PIC X(04).
014200	02	MTR-TWNSHP-1695-VA1Z	PIC X(05).
014300	02	MTR-RNG-1699-VA1Z	PIC X(05).
014400	02	SEC-SECT-2506-VA1Z	PIC X(03).
014500	02	SWA-3507-VA1Z	PIC X(04).
014600	02	ALIQ-PART-2904-VA1Z	PIC X(04) OCCURS 4.
014700	02	ACR-DU-6520-OWNR-VA1Z	PIC X(05).
014800	02	OWN-TYP-2531-VA1Z	PIC X(04).
014900	02	JURIS-2572-VA1Z	PIC X(04).
015000	02	MGT-ADM-2570-VA1Z	PIC X(04).
015100	02	LAND-TYP-3801-VA1Z	PIC X(04).
015200	02	OPEN-VA1Z	PIC X(01).
015300		WORKING-STORAGE SECTION.	
015400	77	END-OF-TRAN	PIC X(01) VALUE SPACE.
015500	77	END-OF-PREV	PIC X(01) VALUE SPACE.
015600	77	DATE-SW	PIC X(01).
015700	77	DATE-MV-SW	PIC X(01).
015800	77	LAST-LIN-NUM	PIC 9(04) VALUE ZERO.
015900	77	TODAYS-DATE	PIC X(06).
016000	77	VA-CTR	PIC 9(5) VALUE ZERO.
016100*			
016200	01	PARAMETER.	
016300	03	RELINE-CHK	PIC XXX.
016400	03	FILLER	PIC X(77).
016500	01	DATE-WORK.	
016600	02	DW-YY	PIC X(02).
016700	02	DW-MM	PIC X(02).
016800	02	DW-DD	PIC X(02).

```

016900 01  MOVED-DATE.
017000      02  MD-DD                      PIC X(02).
017100      02  MD-YY                      PIC X(02).
017200      02  MD-MM                      PIC X(02).
017300 01  TRAN-CTL.
017400      03  REC-TYP-TC  PIC XXXX.
017500      03  SDRP-TC    PIC X(8).
017600      03  ALLOT-PAST-TC PIC X(6).
017700      03  LINE-TC    PIC XXXX.
017800 01  PREV-CTL.
017900      03  REC-TYP-PC  PIC XXXX.
018000      03  SDRP-PC    PIC X(8).
018100      03  ALLOT-PAST-PC PIC X(6).
018200      03  LINE-PC    PIC XXXX.
018300 01  CTL.
018400      03  REC-TYP-C   PIC XXXX.
018500      03  SDRP-C     PIC X(8).
018600      03  ALLOT-PAST-C PIC X(6).
018700 01  CTL-SAVE.
018800      03  REC-TYP-CS  PIC XXXX.
018900      03  SDRP-CS    PIC X(8).
019000      03  ALLOT-PAST-CS PIC X(6).
019100*
019200  PROCEDURE DIVISION.
019300 000-DRIVER SECTION.
019400 010-MAINLINE.
019500      PERFORM 100-INITIALIZE.
019600      PERFORM 200-SORT.
019700      PERFORM 990-TERMINATE.
019800      STOP RUN.
019900*
020000 100-INITIALIZE SECTION.
020100 110-OPENS.
020200      OPEN INPUT PREV-FILE TRAN-FILE
020300          OUTPUT NEW-FILE.
020400      MOVE ALL "9" TO PREV-CTL.
020500      ACCEPT PARAMETER.
020600      ACCEPT TODAYS-DATE FROM DATE.
020700*
020800 200-SORT SECTION.
020900 210-SORT-VERB.
021000      SORT SORT-WORK ASCENDING KEY
021100          REC-TYP-SR SDRP-SR ALLOT-PAST-SR
021200          LINE-SR SWA-SR MTR-MER-CD-SR MTR-RNG-SR
021300          MTR-TWNSHP-SR SEC-SECT-SR
021400          INPUT PROCEDURE 300-READ-RELEASE
021500          OUTPUT PROCEDURE 400-MATCH-UPDATE.
021600*
021700 300-READ-RELEASE SECTION.
021800 300-READ-TRAN.
021900      READ TRAN-FILE AT END GO TO 300-EXIT.
022000      IF ACTN-CD-7350-VA1K = SPACE
022100          MOVE "A" TO ACTN-CD-7350-VA1K.
022200      IF (LIN-NUM-3578-VA1K NOT NUMERIC) OR
022300          (LIN-NUM-3578-VA1K = "0000")
022400          OR (RELINE-CHK = "YES")
022500          MOVE "9999" TO LIN-NUM-3578-VA1K.

```

```

022600     MOVE VA1K-RCD TO SORT-RCD.
022700     RELEASE SORT-RCD.
022800     GO TO 300-READ-TRAN.
022900 300-EXIT.
023000     EXIT.
023100 400-MATCH-UPDATE SECTION.
023200 410-GET-FIRST-RCDS.
023300     PERFORM 430-RETURN-SORT.
023400     PERFORM 440-READ-PREV.
023500 420-COMPARE.
023600     IF TRAN-CTL = ALL "9" AND
023700         PREV-CTL = ALL "9"
023800         GO TO 400-EXIT.
023900     IF TRAN-CTL IS GREATER THAN PREV-CTL
024000         PERFORM 500-NO-TRAN
024100         GO TO 420-COMPARE.
024200     IF PREV-CTL IS GREATER THAN TRAN-CTL
024300         PERFORM 600-NO-PREV
024400         GO TO 420-COMPARE.
024500     IF TRAN-CTL IS EQUAL TO PREV-CTL
024600         PERFORM 700-MATCH
024700         GO TO 420-COMPARE.
024800 430-RETURN-SORT.
024900     RETURN SORT-WORK AT END
025000         MOVE "X" TO END-OF-TRAN.
025100     MOVE REC-TYP-SR TO REC-TYP-TC.
025200     MOVE SDRP-SR TO SDRP-TC.
025300     MOVE ALLOT-PAST-SR TO ALLOT-PAST-TC
025400     MOVE LINE-SR TO LINE-TC.
025500     IF END-OF-TRAN = "X"
025600         MOVE ALL "9" TO TRAN-CTL.
025700 440-READ-PREV.
025800     READ PREV-FILE AT END
025900         MOVE "X" TO END-OF-PREV.
026000     MOVE DIC-VA1X TO REC-TYP-PC.
026100     MOVE BLM-ADM-U-0003-VA1X TO SDRP-PC.
026200     MOVE ALLOT-PAST-VA1X TO ALLOT-PAST-PC.
026300     MOVE LIN-NUM-3578-VA1X TO LINE-PC.
026400     IF END-OF-PREV = "X"
026500         MOVE ALL "9" TO PREV-CTL.
026600 500-NO-TRAN.
026700     MOVE VA1X-RCD TO VA1Z-RCD.
026800     ADD 1 TO VA-CTR.
026900     PERFORM 920-WRITE-Z.
027000     PERFORM 440-READ-PREV.
027100 600-NO-PREV.
027200     MOVE SORT-RCD TO VA1Z-RCD.
027300     ADD 1 TO VA-CTR.
027400     PERFORM 810-BUILD-LIN.
027500     PERFORM 820-CHECK-LIN THRU 820-OUT.
027600     PERFORM 890-EDIT-DATE.
027700     PERFORM 920-WRITE-Z.
027800     PERFORM 430-RETURN-SORT.
027900 700-MATCH.
028000     MOVE VA1X-RCD TO VA1Z-RCD.
028100     PERFORM 890-EDIT-DATE.
028200     MOVE SORT-RCD TO VA1K-RCD.

```

```

028300     IF (DATA-1-SR NOT = SPACE) OR
028400         (DATA-2-SR NOT = SPACE)
028500         PERFORM 850-MOVE-FIELDS
028600         PERFORM 810-BUILD-LIN
028700         ADD 1 TO VA-CTR
028800         PERFORM 920-WRITE-Z.
028900     PERFORM 430-RETURN-SORT.
029000     PERFORM 440-READ-PREV.
029100 810-BUILD-LIN.
029200     IF (LIN-NUM-3578-VA1Z NOT NUMERIC) OR
029300         (LIN-NUM-3578-VA1Z = "0000")
029400         MOVE "9999" TO LIN-NUM-3578-VA1Z.
029500 820-CHECK-LIN.
029600     IF LIN-NUM-3578-VA1Z NOT = "9999"
029700         GO TO 820-OUT.
029800     MOVE DIC-VA1Z TO REC-TYP-C.
029900     MOVE BLM-ADM-U-0003-VA1Z TO SDRP-C.
030000     MOVE ALLOT-PAST-VA1Z TO ALLOT-PAST-C.
030100     IF CTL NOT = CTL-SAVE
030200         MOVE 0001 TO LAST-LIN-NUM
030300         MOVE "0001" TO LIN-NUM-3578-VA1Z ELSE
030400         ADD 1 TO LAST-LIN-NUM
030500         MOVE LAST-LIN-NUM TO LIN-NUM-3578-VA1Z.
030600     MOVE CTL TO CTL-SAVE.
030700 820-OUT.
030800     EXIT.
030900*
031000 850-MOVE-FIELDS.
031100     IF MTR-TWNSHP-1695-VA1K = SPACES
031200         NEXT SENTENCE
031300         ELSE
031400         IF MTR-TWNSHP-1695-VA1K = "*****"
031500             MOVE SPACES TO MTR-TWNSHP-1695-VA1Z
031600             ELSE
031700             MOVE MTR-TWNSHP-1695-VA1K TO MTR-TWNSHP-1695-VA1Z.
031800     IF MTR-RNG-1699-VA1K = SPACES
031900         NEXT SENTENCE
032000         ELSE
032100         IF MTR-RNG-1699-VA1K = "*****"
032200             MOVE SPACES TO MTR-RNG-1699-VA1Z
032300             ELSE
032400             MOVE MTR-RNG-1699-VA1K TO MTR-RNG-1699-VA1Z.
032500     IF SEC-SECT-2506-VA1K = SPACES
032600         NEXT SENTENCE
032700         ELSE
032800         IF SEC-SECT-2506-VA1K = "****"
032900             MOVE SPACES TO SEC-SECT-2506-VA1Z
033000             ELSE
033100             MOVE SEC-SECT-2506-VA1K TO SEC-SECT-2506-VA1Z.
033200     IF SWA-3507-VA1K = SPACES
033300         NEXT SENTENCE
033400         ELSE
033500         IF SWA-3507-VA1K = "*****"
033600             MOVE SPACES TO SWA-3507-VA1Z
033700             ELSE
033800             MOVE SWA-3507-VA1K TO SWA-3507-VA1Z.
033900     IF ALIQ-PART-2904-VA1K (1) = SPACES

```



```

034000     NEXT SENTENCE
034100     ELSE
034200     IF ALIQ-PART-2904-VA1K (1) = "*****"
034300         MOVE SPACES TO ALIQ-PART-2904-VA1Z (1)
034400     ELSE
034500         MOVE ALIQ-PART-2904-VA1K (1) TO ALIQ-PART-2904-VA1Z (1).
034600 IF ALIQ-PART-2904-VA1K (2) = SPACES
034700     NEXT SENTENCE
034800     ELSE
034900     IF ALIQ-PART-2904-VA1K (2) = "*****"
035000         MOVE SPACES TO ALIQ-PART-2904-VA1Z (2)
035100     ELSE
035200         MOVE ALIQ-PART-2904-VA1K (2) TO ALIQ-PART-2904-VA1Z (2).
035300 IF ALIQ-PART-2904-VA1K (3) = SPACES
035400     NEXT SENTENCE
035500     ELSE
035600     IF ALIQ-PART-2904-VA1K (3) = "*****"
035700         MOVE SPACES TO ALIQ-PART-2904-VA1Z (3)
035800     ELSE
035900         MOVE ALIQ-PART-2904-VA1K (3) TO ALIQ-PART-2904-VA1Z (3).
036000 IF ALIQ-PART-2904-VA1K (4) = SPACES
036100     NEXT SENTENCE
036200     ELSE
036300     IF ALIQ-PART-2904-VA1K (4) = "*****"
036400         MOVE SPACES TO ALIQ-PART-2904-VA1Z (4)
036500     ELSE
036600         MOVE ALIQ-PART-2904-VA1K (4) TO ALIQ-PART-2904-VA1Z (4).
036700 IF ACR-DU-6520-OWNR-VA1K = SPACES
036800     NEXT SENTENCE
036900     ELSE
037000*     IF ACR-DU-6520-OWNR-VA1K = "*****"
037100     IF ACR-DU-6520-OWNR-VA1K = "00000"
037200         MOVE SPACES TO ACR-DU-6520-OWNR-VA1Z
037300     ELSE
037400         MOVE ACR-DU-6520-OWNR-VA1K TO ACR-DU-6520-OWNR-VA1Z.
037500 IF OWN-TYP-2531-VA1K = SPACES
037600     NEXT SENTENCE
037700     ELSE
037800     IF OWN-TYP-2531-VA1K = "*****"
037900         MOVE SPACES TO OWN-TYP-2531-VA1Z
038000     ELSE
038100         MOVE OWN-TYP-2531-VA1K TO OWN-TYP-2531-VA1Z.
038200 IF JURIS-2572-VA1K = SPACES
038300     NEXT SENTENCE
038400     ELSE
038500     IF JURIS-2572-VA1K = "*****"
038600         MOVE SPACES TO JURIS-2572-VA1Z
038700     ELSE
038800         MOVE JURIS-2572-VA1K TO JURIS-2572-VA1Z.
038900 IF MGT-ADM-2570-VA1K = SPACES
039000     NEXT SENTENCE
039100     ELSE
039200     IF MGT-ADM-2570-VA1K = "*****"
039300         MOVE SPACES TO MGT-ADM-2570-VA1Z
039400     ELSE
039500         MOVE MGT-ADM-2570-VA1K TO MGT-ADM-2570-VA1Z.
039600 IF LAND-TYP-3801-VA1K = SPACES

```

```

039700     NEXT SENTENCE
039800     ELSE
039900     IF LAND-TYP-3801-VA1K = "*****"
040000         MOVE SPACES TO LAND-TYP-3801-VA1Z
040100     ELSE
040200         MOVE LAND-TYP-3801-VA1K TO LAND-TYP-3801-VA1Z.
040300 890-EDIT-DATE.
040400     MOVE SPACE TO DATE-MV-SW.
040500     MOVE DATA-DATE-6618-VA1Z TO DATE-WORK.
040600     PERFORM 900-EDIT-FIELDS.
040700     IF DATE-SW NOT = " "
040800         PERFORM 910-SWITCH-FIELDS
040900         PERFORM 900-EDIT-FIELDS.
041000     IF DATE-SW NOT = " "
041100         MOVE TODAYS-DATE TO DATA-DATE-6618-VA1Z.
041200     IF DATE-MV-SW NOT = " "
041300         MOVE MOVED-DATE TO DATA-DATE-6618-VA1Z.
041400 900-EDIT-FIELDS.
041500     MOVE SPACE TO DATE-SW.
041600     IF DW-MM NOT NUMERIC OR
041700         DW-MM > "12"         OR
041800         DW-MM < "01"
041900         MOVE "X" TO DATE-SW.
042000     IF DW-DD NOT NUMERIC OR
042100         DW-DD > "31"         OR
042200         DW-DD < "01"
042300         MOVE "X" TO DATE-SW.
042400     IF DW-YY NOT NUMERIC OR
042500         DW-YY < "78"
042600         MOVE "X" TO DATE-SW.
042700 910-SWITCH-FIELDS.
042800     MOVE " " TO DATE-MV-SW.
042900     IF DW-DD = "78" OR "79" OR "80" OR "81" OR "82"
043000         MOVE DW-MM TO MD-MM
043100         MOVE DW-DD TO MD-DD
043200         MOVE DW-YY TO MD-YY
043300         MOVE "X" TO DATE-MV-SW.
043400 920-WRITE-Z.
043500     MOVE LIN-NUM-3578-VA1Z TO LAST-LIN-NUM.
043600     MOVE DIC-VA1Z TO REC-TYP-C.
043700     MOVE BLM-ADM-U-0003-VA1Z TO SDRP-C.
043800     MOVE ALLOT-PAST-VA1Z TO ALLOT-PAST-C.
043900     MOVE CTL TO CTL-SAVE.
044000     MOVE SPACE TO OPEN-VA1Z.
044100     MOVE "A" TO ACTN-CD-7350-VA1Z.
044200     WRITE VA1Z-RCD.
044300 400-EXIT.
044400     EXIT.
044500*
044600 990-TERMINATE SECTION.
044700 990-PRINT.
044800     DISPLAY "VA RCDS"
044900     DISPLAY " " VA-CTR.
045000 990-CLOSE.
045100     CLOSE TRAN-FILE PREV-FILE NEW-FILE.
000000*-----
000100 IDENTIFICATION DIVISION.

```

000200 PROGRAM-ID. ES215P.  
000300\*           VA VERIFICATION LIST  
000400\*  
000500 AUTHOR. CORA FISCHER.  
000600 INSTALLATION.  
000700 DATE-WRITTEN. 7/21/80.  
000800 DATE-COMPILED.  
000900 ENVIRONMENT DIVISION.  
001000 CONFIGURATION SECTION.  
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.  
001200 OBJECT-COMPUTER. LEVEL-66-ASCII.  
001300 INPUT-OUTPUT SECTION.  
001400 FILE-CONTROL.  
001500       SELECT INPUT-FILE1 ASSIGN TO I1-ES210UD1  
001600           ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
001700       SELECT PRINT-FILE ASSIGN TO P1-PRINTER  
001800           ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
001900       SELECT SORT-FILE ASSIGN TO S1.  
002000 DATA DIVISION.  
002100 SUB-SCHEMA SECTION.  
002200 DB CODVAL2 WITHIN BLMDIC.  
002300 FILE SECTION.  
002400 FD INPUT-FILE1           CODE-SET IS GBCD  
002500                            LABEL RECORDS ARE STANDARD  
002600                            DATA RECORD IS FDR-VA.  
002700 01 FDR-VA.  
002800    03 REC-TYPE-3529-VA-I1           PIC       X(02).  
002900    03 FMT-NO-3576-VA-I1           PIC       X(01).  
003000    03 FMT-CD-3579-VA-I1           PIC       X(01).  
003100    03 ADM-UNIT-0003-VA-I1       PIC       X(08).  
003200    03 ALLOT-NUM-0968-VA-I1       PIC       X(04).  
003300    03 PASTURE-NUM-3905-VA-I1     PIC       X(02).  
003400    03 DATA-DT-6618-VA-I1       PIC       X(06).  
003500    03 ACT-CD-7350-VA-I1       PIC       X(01).  
003600    03 MAP-SRC-3540-VA-I1       PIC       X(04).  
003700    03 MTR-MER-CD-1703-VA-I1     PIC       X(02).  
003800    03 LINE-NO-3578-VA-I1       PIC       X(04).  
003900    03 MTR-TWNSHIP-1695-VA-I1    PIC       X(05).  
004000    03 MTR-RNG-1699-VA-I1       PIC       X(05).  
004100    03 SEC-SECT-2506-VA-I1       PIC       X(03).  
004200    03 SWA-3507-VA-I1           PIC       X(04).  
004300    03 ALIQ-PART-2904-VA-I1    PIC       X(04) OCCURS 4 TIMES.  
004400    03 ACR-DU-6520-VA-I1       PIC       X(05).  
004500    03 OWN-TYP-2531-VA-I1       PIC       X(04).  
004600    03 JURIS-2572-VA-I1       PIC       X(04).  
004700    03 MGT-ADM-2570-VA-I1       PIC       X(04).  
004800    03 LAND-TYP-3801-VA-I1     PIC       X(04).  
004900 FD PRINT-FILE           CODE-SET IS GBCD  
005000                            LABEL RECORDS ARE STANDARD  
005100                            DATA RECORD IS PRT-REC.  
005200 01 PRT-REC                           PIC       X(132).  
005300 SD SORT-FILE           DATA RECORDS IS S-KEY1.  
005400 01 S-KEY1.  
005500    03 REC-TYPE-3529-VA-S1       PIC       X(02).  
005600    03 FMT-NO-3576-VA-S1       PIC       X(01).  
005700    03 FMT-CD-3579-VA-S1       PIC       X(01).  
005800    03 ADM-UNIT-0003-VA-S1.

005900		05	ADM-ST-0003-VA-S1		PIC		X(02).
006000		05	ADM-DI-0003-VA-S1		PIC		X(02).
006100		05	ADM-RA-0003-VA-S1		PIC		X(02).
006200		05	ADM-PU-0003-VA-S1		PIC		X(02).
006300		03	ALLOT-NUM-0968-VA-S1		PIC		X(04).
006400		03	PASTURE-NUM-3905-VA-S1		PIC		X(02).
006500		03	DATA-DT-6618-VA-S1		PIC		X(06).
006600		03	ACT-CD-7350-VA-S1		PIC		X(01).
006700		03	MAP-SRC-3540-VA-S1		PIC		X(04).
006800		03	MTR-MER-CD-1703-VA-S1		PIC		X(02).
006900		03	LINE-NO-3578-VA-S1		PIC		X(04).
007000		03	MTR-TWNSHIP-1695-VA-S1.				
007100		05	NUM-1695-VA-S1		PIC		999V9.
007200		05	DIR-1695-VA-S1		PIC		X(01).
007300		03	MTR-RNG-1699-VA-S1.				
007400		05	NUM-1699-VA-S1		PIC		999V9.
007500		05	DIR-1699-VA-S1		PIC		X(01).
007600		03	SEC-SECT-2506-VA-S1		PIC		X(03).
007700		03	SWA-3507-VA-S1		PIC		X(04).
007800		03	ALIQ-PART-2904-VA-S1	PIC		X(04)	OCCURS 4 TIMES.
007900		03	ACR-DU-6520-VA-S1		PIC		X(05).
008000		03	OWN-TYP-2531-VA-S1		PIC		X(04).
008100		03	JURIS-2572-VA-S1		PIC		X(04).
008200		03	MGT-ADM-2570-VA-S1		PIC		X(04).
008300		03	LAND-TYP-3801-VA-S1		PIC		X(04).
008400	WORKING-STORAGE SECTION.						
008500	77		PAGE-CNT		PIC	9(05)	VALUE 0.
008600	77		VA-CNT		PIC	9(07)	VALUE 0.
008700	77		LINE-CNT		PIC	9(02)	VALUE 66.
008800	01		MONTH-TABLE.				
008900		03	MO-TAB.				
009000		05	FILLER		PIC	X(03)	VALUE "JAN".
009100		05	FILLER		PIC	X(03)	VALUE "FEB".
009200		05	FILLER		PIC	X(03)	VALUE "MAR".
009300		05	FILLER		PIC	X(03)	VALUE "APR".
009400		05	FILLER		PIC	X(03)	VALUE "MAY".
009500		05	FILLER		PIC	X(03)	VALUE "JUN".
009600		05	FILLER		PIC	X(03)	VALUE "JUL".
009700		05	FILLER		PIC	X(03)	VALUE "AUG".
009800		05	FILLER		PIC	X(03)	VALUE "SEP".
009900		05	FILLER		PIC	X(03)	VALUE "OCT".
010000		05	FILLER		PIC	X(03)	VALUE "NOV".
010100		05	FILLER		PIC	X(03)	VALUE "DEC".
010200		03	MON REDEFINES MO-TAB		PIC	X(03)	OCCURS 12 TIMES.
010300	01		EOF-SWITCH		PIC	9	VALUE 0.
010400		88	EOF				VALUE 1.
010500	01		EOR-SWITCH		PIC	9	VALUE 0.
010600		88	EOR				VALUE 1.
010700	01		PARAMETER		PIC		X(04).
010800	01		HLD-DT.				
010900		03	HOLD-DT.				
011000		05	YR-DT		PIC		X(02).
011100		05	MO-DT		PIC		9(02).
011200		05	DY-DT		PIC		X(02).
011300		03	INV-HLD.				
011400		05	INV-NM	PIC		X(20).	
011500		05	ST-DIST-CD.				

011600		07	ST-CD-HLD	PIC	X(02).	
011700		07	DI-CD-HLD	PIC	X(02).	
011800	03		EXPL-HLD.			
011900		05	DIST-NM-HLD	PIC	X(12).	
012000	03		FUNC-HLD.			
012100		05	ST-NM-HLD	PIC	X(10).	
012200		05	FILLER	PIC	X(14).	
012300			COPY DBSTATUS IN TPCOBOLIB.			
012400	01		HDR-1.			
012500	03		FILLER	PIC	X(08)	VALUE
012600			" DATE: "			
012700	03		HDR-MO	PIC	X(03).	
012800	03		FILLER	PIC	X(01)	VALUE SPACE.
012900	03		HDR-DA	PIC	X(02).	
013000	03		FILLER	PIC	X(04)	VALUE ", 19".
013100	03		HDR-YR	PIC	X(02).	
013200	03		FILLER	PIC	X(21)	VALUE SPACES.
013300	03		FILLER	PIC	X(47)	VALUE
013400			"US DEPT OF INTERIOR - BUREAU OF LAND MANAGEMENT".			
013500	03		FILLER	PIC	X(29)	VALUE SPACES.
013600	03		FILLER	PIC	X(07)	VALUE
013700			"PAGE: "			
013800	03		HDR-PG	PIC	ZZ,ZZ9.	
013900	03		FILLER	PIC	X(02)	VALUE SPACES.
014000	01		HDR-2.			
014100	03		FILLER	PIC	X(8)	VALUE
014200			"STATE: "			
014300	03		HDR-ST-CD	PIC	X(02).	
014400	03		FILLER	PIC	X(04)	VALUE SPACES.
014500	03		HDR-ST-NM	PIC	X(10).	
014600	03		FILLER	PIC	X(30)	VALUE SPACES.
014700	03		FILLER	PIC	X(25)	VALUE
014800			"ECOLOGICAL SITE INVENTORY".			
014900	03		FILLER	PIC	X(35)	VALUE SPACES.
015000	03		FILLER	PIC	X(18)	VALUE
015100			"PROGRAM: ES215P "			
015200	01		HDR-3.			
015300	03		FILLER	PIC	X(08)	VALUE
015400			" DI: "			
015500	03		HDR-DIST-CD	PIC	X(02).	
015600	03		FILLER	PIC	X(04)	VALUE SPACES.
015700	03		HDR-DIST-NM	PIC	X(25).	
015800	03		FILLER	PIC	X(79)	VALUE SPACES.
015900	03		FILLER	PIC	X(14)	VALUE
016000			"PCN: SV215P "			
016100	01		HDR-4.			
016200	03		FILLER	PIC	X(08)	VALUE
016300			" INV: "			
016400	03		HDR-INV-CD	PIC	X(04).	
016500	03		FILLER	PIC	X(02)	VALUE SPACES.
016600	03		HDR-INV-NM	PIC	X(25).	
016700	03		FILLER	PIC	X(16)	VALUE SPACES.
016800	03		HDR-REC-TYPE	PIC	X(02).	
016900	03		FILLER	PIC	X(18)	VALUE
017000			" VERIFICATION LIST".			
017100	03		FILLER	PIC	X(57)	VALUE SPACES.
017200	01		HDR-5-VA.			

017300	03	FILLER	PIC	X(52)	VALUE
017400		"(1-2) (3) (4) (5) (6) (7) (8) (9)".			
017500	03	FILLER	PIC	X(08)	VALUE SPACES.
017600	03	FILLER	PIC	X(51)	VALUE
017700		"(10) (11) (12) (13) NE4 NW4(14)SW4 SE4 (15) ".			
017800	03	FILLER	PIC	X(21)	VALUE
017900		"(16) (17) (18) (19)".			
018000	01	HDR-6-VA.			
018100	03	FILLER	PIC	X(20)	VALUE
018200		" REC ADMIN UNIT".			
018300	03	FILLER	PIC	X(15)	VALUE SPACES.
018400	03	FILLER	PIC	X(36)	VALUE
018500		"DATE ACT MAP LINE TWP RANGE".			
018600	03	FILLER	PIC	X(08)	VALUE SPACES.
018700	03	FILLER	PIC	X(41)	VALUE
018800		"SWA NNSS NNSS NNSS NNSS SURF FED ".			
018900	03	FILLER	PIC	X(12)	VALUE
019000		"SUR ONLY TYP".			
019100	01	HDR-7-VA.			
019200	03	FILLER	PIC	X(54)	VALUE
019300		"TYPE ST DI RA PU ALLOT PAST YYMMDD CD SRC MER ".			
019400	03	FILLER	PIC	X(51)	VALUE
019500		"NUM NUM FD NUM FD SEC NUM EWWE EWWE EWWE EWWE ".			
019600	03	FILLER	PIC	X(27)	VALUE
019700		"ACRES OWNR JURIS ADMIN LND".			
019800	01	HDR-8-VA.			
019900	03	FILLER	PIC	X(53)	VALUE
020000		" 1-4 5-6 7-8 9-10 11-2 13-16 17-8 19-24 25 26-9 30 ".			
020100	03	FILLER	PIC	X(52)	VALUE
020200		"32-35 36-40 41-45 46-48 49-52 53-6 57-60 61-4 65-8 ".			
020300	03	FILLER	PIC	X(27)	VALUE
020400		"69-73 74-7 78-81 82-85 86-9".			
020500	01	HDR-9-VA.			
020600	03	FILLER	PIC	X(53)	VALUE
020700		"XXXX XX XX XX XX XXXX XX XXXXXX X XXXX XX ".			
020800	03	FILLER	PIC	X(52)	VALUE
020900		"9999 999.9X 999.9X 999 XXXX XXXX XXXX XXXX XXXX ".			
021000	03	FILLER	PIC	X(27)	VALUE
021100		"99999 XXXX XXXX XXXX XXXX".			
021200	01	HDR-10-DET-VA.			
021300	03	REC-TYPE-3529-VA-P1	PIC	X(02).	
021400	03	FMT-NO-3576-VA-P1	PIC	X(01).	
021500	03	FMT-CD-3579-VA-P1	PIC	X(01).	
021600	03	FILLER	PIC	X(01)	VALUE SPACE.
021700	03	ADM-ST-0003-VA-P1	PIC	X(02).	
021800	03	FILLER	PIC	X(02)	VALUE SPACES.
021900	03	ADM-DI-0003-VA-P1	PIC	X(02).	
022000	03	FILLER	PIC	X(03)	VALUE SPACES.
022100	03	ADM-RA-0003-VA-P1	PIC	X(02).	
022200	03	FILLER	PIC	X(03)	VALUE SPACES.
022300	03	ADM-PU-0003-VA-P1	PIC	X(02).	
022400	03	FILLER	PIC	X(02)	VALUE SPACES.
022500	03	ALLOT-NUM-0968-VA-P1	PIC	X(04).	
022600	03	FILLER	PIC	X(03)	VALUE SPACES.
022700	03	PASTURE-NUM-3905-VA-P1	PIC	X(02).	
022800	03	FILLER	PIC	X(02)	VALUE SPACES.
022900	03	DATA-DT-6618-VA-P1	PIC	X(06).	

023000	03	FILLER	PIC	X(02)	VALUE SPACES.
023100	03	ACT-CD-7350-VA-P1	PIC	X(01).	
023200	03	FILLER	PIC	X(01)	VALUE SPACE.
023300	03	MAP-SRC-3540-VA-P1	PIC	X(04).	
023400	03	FILLER	PIC	X(02)	VALUE SPACES.
023500	03	MTR-MER-CD-1703-VA-P1	PIC	X(02).	
023600	03	FILLER	PIC	X(01)	VALUE SPACE.
023700	03	LINE-NO-3578-VA-P1	PIC	9(04).	
023800	03	FILLER	PIC	X(01)	VALUE SPACE.
023900	03	MTR-TWNSHIP-1695-VA-P1.			
024000		05 NUM-1695-VA-P1	PIC	999.9.	
024100		05 DIR-1695-VA-P1	PIC	X(01).	
024200	03	FILLER	PIC	X(01)	VALUE SPACE.
024300	03	MTR-RNG-1699-VA-P1.			
024400		05 NUM-1699-VA-P1	PIC	999.9.	
024500		05 DIR-1699-VA-P1	PIC	X(01).	
024600	03	FILLER	PIC	X(02)	VALUE SPACES.
024700	03	SEC-SECT-2506-VA-P1	PIC	X(03).	
024800	03	FILLER	PIC	X(02)	VALUE SPACES.
024900	03	SWA-3507-VA-P1	PIC	X(04).	
025000	03	FILLER	PIC	X(02)	VALUE SPACES.
025100	03	ALIQ-PART1-2904-VA-P1	PIC	X(04).	
025200	03	FILLER	PIC	X(01)	VALUE SPACE.
025300	03	ALIQ-PART2-2904-VA-P1	PIC	X(04).	
025400	03	FILLER	PIC	X(02)	VALUE SPACES.
025500	03	ALIQ-PART3-2904-VA-P1	PIC	X(04).	
025600	03	FILLER	PIC	X(01)	VALUE SPACE.
025700	03	ALIQ-PART4-2904-VA-P1	PIC	X(04).	
025800	03	FILLER	PIC	X(01)	VALUE SPACE.
025900	03	ACR-DU-6520-VA-P1	PIC	9(05).	
026000	03	FILLER	PIC	X(01)	VALUE SPACE.
026100	03	OWN-TYP-2531-VA-P1	PIC	X(04).	
026200	03	FILLER	PIC	X(01)	VALUE SPACE.
026300	03	JURIS-2572-VA-P1	PIC	X(04).	
026400	03	FILLER	PIC	X(02)	VALUE SPACES.
026500	03	MGT-ADM-2570-VA-P1	PIC	X(04).	
026600	03	FILLER	PIC	X(02)	VALUE SPACES.
026700	03	LAND-TYP-3801-VA-P1	PIC	X(04).	
026800		PROCEDURE DIVISION.			
026900		START-SORT SECTION.			
027000		100-SORT.			
027100		SORT SORT-FILE ON ASCENDING REC-TYPE-3529-VA-S1			
027200		FMT-NO-3576-VA-S1 FMT-CD-3579-VA-S1 ADM-UNIT-0003-VA-S1			
027300		ALLOT-NUM-0968-VA-S1 PASTURE-NUM-3905-VA-S1			
027400		SWA-3507-VA-S1 MTR-MER-CD-1703-VA-S1			
027500		MTR-RNG-1699-VA-S1 MTR-TWNSHIP-1695-VA-S1			
027600		SEC-SECT-2506-VA-S1			
027700		INPUT PROCEDURE PRE-SORT			
027800		OUTPUT PROCEDURE POST-SORT.			
027900		200-END-SECTION.			
028000		FINISH DIC-DE.			
028100		DISPLAY "VA-CNT" VA-CNT.			
028200		CLOSE PRINT-FILE.			
028300		STOP RUN.			
028400		PRE-SORT SECTION.			
028500		300-HSKPNG.			
028600		OPEN INPUT INPUT-FILE1.			

```

028700     MOVE SPACES TO S-KEY1.
028800 400-MAIN.
028900     PERFORM 500-RD-FILE THRU 600-EXIT-RD UNTIL EOF.
029000     CLOSE INPUT-FILE1.
029100     GO TO 600-EXIT-RD.
029200 500-RD-FILE.
029300     READ INPUT-FILE1 AT END MOVE 1 TO EOF-SWITCH.
029400     IF (EOF-SWITCH = 1) GO TO 600-EXIT-RD.
029500     ADD 1 TO VA-CNT.
029600     MOVE FDR-VA TO S-KEY1.
029700     RELEASE S-KEY1.
029800 600-EXIT-RD.
029900     EXIT.
030000 POST-SORT SECTION.
030100 3050-RET-HSKPNG.
030200     OPEN OUTPUT PRINT-FILE.
030300     ACCEPT PARAMETER.
030400     ACCEPT HOLD-DT FROM DATE.
030500     MOVE YR-DT TO HDR-YR.
030600     MOVE MON(MO-DT) TO HDR-MO.
030700     MOVE DY-DT TO HDR-DA.
030800     READY DIC-DE.
030900     PERFORM 4000-VALIDATE-INV THRU 4050-EXIT-STDI.
031000     RETURN SORT-FILE AT END MOVE 1 TO EOR-SWITCH.
031100 3060-MAIN-DRIVER.
031200     PERFORM 4300-PRT-DET THRU 4360-EXIT-RET UNTIL EOR.
031300     GO TO 5000-DUMMY.
031400 4300-PRT-DET.
031500     IF LINE-CNT > 50
031600         PERFORM 4200-PRT-HDNG.
031700     MOVE REC-TYPE-3529-VA-S1 TO REC-TYPE-3529-VA-P1.
031800     MOVE FMT-NO-3576-VA-S1 TO FMT-NO-3576-VA-P1.
031900     MOVE FMT-CD-3579-VA-S1 TO FMT-CD-3579-VA-P1.
032000     MOVE ADM-ST-0003-VA-S1 TO ADM-ST-0003-VA-P1.
032100     MOVE ADM-DI-0003-VA-S1 TO ADM-DI-0003-VA-P1.
032200     MOVE ADM-RA-0003-VA-S1 TO ADM-RA-0003-VA-P1.
032300     MOVE ADM-PU-0003-VA-S1 TO ADM-PU-0003-VA-P1.
032400     MOVE ALLOT-NUM-0968-VA-S1 TO ALLOT-NUM-0968-VA-P1.
032500     MOVE PASTURE-NUM-3905-VA-S1 TO PASTURE-NUM-3905-VA-P1.
032600     MOVE DATA-DT-6618-VA-S1 TO DATA-DT-6618-VA-P1.
032700     MOVE ACT-CD-7350-VA-S1 TO ACT-CD-7350-VA-P1.
032800     MOVE MAP-SRC-3540-VA-S1 TO MAP-SRC-3540-VA-P1.
032900     MOVE MTR-MER-CD-1703-VA-S1 TO MTR-MER-CD-1703-VA-P1.
033000     MOVE LINE-NO-3578-VA-S1 TO LINE-NO-3578-VA-P1.
033100     MOVE NUM-1695-VA-S1 TO NUM-1695-VA-P1.
033200     MOVE DIR-1695-VA-S1 TO DIR-1695-VA-P1.
033300     MOVE NUM-1699-VA-S1 TO NUM-1699-VA-P1.
033400     MOVE DIR-1699-VA-S1 TO DIR-1699-VA-P1.
033500     MOVE SEC-SECT-2506-VA-S1 TO SEC-SECT-2506-VA-P1.
033600     MOVE SWA-3507-VA-S1 TO SWA-3507-VA-P1.
033700     MOVE ALIQ-PART-2904-VA-S1 (1) TO ALIQ-PART1-2904-VA-P1.
033800     MOVE ALIQ-PART-2904-VA-S1 (2) TO ALIQ-PART2-2904-VA-P1.
033900     MOVE ALIQ-PART-2904-VA-S1 (3) TO ALIQ-PART3-2904-VA-P1.
034000     MOVE ALIQ-PART-2904-VA-S1 (4) TO ALIQ-PART4-2904-VA-P1.
034100     MOVE ACR-DU-6520-VA-S1 TO ACR-DU-6520-VA-P1.
034200     MOVE OWN-TYP-2531-VA-S1 TO OWN-TYP-2531-VA-P1.
034300     MOVE JURIS-2572-VA-S1 TO JURIS-2572-VA-P1.

```



```

034400     MOVE MGT-ADM-2570-VA-S1      TO  MGT-ADM-2570-VA-P1.
034500     MOVE LAND-TYP-3801-VA-S1     TO  LAND-TYP-3801-VA-P1.
034600     WRITE PRT-REC FROM HDR-10-DET-VA AFTER ADVANCING 2 LINES.
034700     ADD 2 TO LINE-CNT.
034800 4350-RET-SORT.
034900     RETURN SORT-FILE AT END MOVE 1 TO EOR-SWITCH.
035000     IF (EOR-SWITCH = 1) GO TO 4360-EXIT-RET.
035100 4360-EXIT-RET.
035200     EXIT.
035300 4000-VALIDATE-INV.
035400     MOVE PARAMETER TO DE-CD-8822-DEC  HDR-INV-CD.
035500     MOVE 3940 TO DE-NO-8801-DEC.
035600     FIND ANY CODE-DEC.
035700     MOVE DB-STATUS TO DB-STAT.
035800     IF NOT OK
035900         MOVE "UNKNOWN" TO HDR-ST-NM HDR-DIST-NM HDR-INV-NM
036000         GO TO 4050-EXIT-STDI.
036100     GET CODE-DEC.
036200     MOVE DB-STATUS TO DB-STAT.
036300     IF NOT OK
036400         DISPLAY "ES115PBD  DIDN'T GET INVN"
036500         DISPLAY DB-STAT
036600         GO TO 4050-EXIT-STDI.
036700     MOVE DE-CD-NAM-8823-DEC TO INV-HLD.
036800     MOVE INV-NM TO HDR-INV-NM.
036900 4005-VALIDATE-ST.
037000     MOVE ST-CD-HLD TO DE-CD-8822-DEC  HDR-ST-CD.
037100     MOVE 0003 TO DE-NO-8801-DEC.
037200     FIND ANY CODE-DEC.
037300     MOVE DB-STATUS TO DB-STAT.
037400     IF NOT OK
037500         MOVE "UNKNOWN" TO HDR-ST-NM
037600         GO TO 4008-EXIT-ST.
037700     GET CODE-DEC.
037800     MOVE DB-STATUS TO DB-STAT.
037900     IF NOT OK
038000         DISPLAY "ES115PBD  3  DIDN'T GET ST"
038100         DISPLAY "ES115PBD  4  " DB-STAT
038200         GO TO 4008-EXIT-ST.
038300     MOVE DE-CD-NAM-8823-DEC TO FUNC-HLD.
038400     MOVE ST-NM-HLD TO HDR-ST-NM.
038500 4008-EXIT-ST.
038600     EXIT.
038700 4010-VALIDATE-STDI.
038800     MOVE ST-DIST-CD TO DE-CD-8822-DEC.
038900     MOVE DI-CD-HLD TO HDR-DIST-CD.
039000     MOVE 0003 TO DE-NO-8801-DEC.
039100     FIND ANY CODE-DEC.
039200     MOVE DB-STATUS TO DB-STAT.
039300     IF NOT OK
039400         MOVE "UNKNOWN" TO HDR-DIST-NM
039500         GO TO 4050-EXIT-STDI.
039600     GET CODE-DEC.
039700     MOVE DB-STATUS TO DB-STAT.
039800     IF NOT OK
039900         DISPLAY "ES115PBD 5 DIDN'T GET STDI"
040000         DISPLAY "ES115PBD 6 " DB-STAT

```

```

040100      GO TO 4050-EXIT-STD1.
040200      FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
040300      MOVE DB-STATUS TO DB-STAT.
040400      IF NOT OK
040500          MOVE "UNKNOWN" TO HDR-DIST-NM
040600      GO TO 4050-EXIT-STD1.
040700      GET CODE-EXPL-DECE.
040800      MOVE DB-STATUS TO DB-STAT.
040900      IF NOT OK
041000          DISPLAY "ES115PBD 7 DIDN'T GET DIST"
041100          DISPLAY "ES115PBD 8 " DB-STAT
041200      GO TO 4050-EXIT-STD1.
041300      MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HLD.
041400      MOVE DIST-NM-HLD TO HDR-DIST-NM.
041500 4050-EXIT-STD1.
041600      EXIT.
041700 4200-PRT-HDNG.
041800      MOVE "VA" TO HDR-REC-TYPE.
041900      ADD 1 TO PAGE-CNT.
042000      MOVE PAGE-CNT TO HDR-PG.
042100      WRITE PRT-REC FROM HDR-1 AFTER ADVANCING PAGE.
042200      WRITE PRT-REC FROM HDR-2 AFTER ADVANCING 1 LINES.
042300      WRITE PRT-REC FROM HDR-3 AFTER ADVANCING 1 LINES.
042400      WRITE PRT-REC FROM HDR-4 AFTER ADVANCING 1 LINES.
042500      WRITE PRT-REC FROM HDR-5-VA AFTER ADVANCING 2 LINES.
042600      WRITE PRT-REC FROM HDR-6-VA AFTER ADVANCING 1 LINES.
042700      WRITE PRT-REC FROM HDR-7-VA AFTER ADVANCING 1 LINES.
042800      WRITE PRT-REC FROM HDR-8-VA AFTER ADVANCING 1 LINES.
042900      WRITE PRT-REC FROM HDR-9-VA AFTER ADVANCING 1 LINES.
043000      MOVE SPACES TO PRT-REC.
043100      WRITE PRT-REC AFTER ADVANCING 1 LINES.
043200      MOVE 10 TO LINE-CNT.
043300 4350-END-RET.
043400      EXIT.
043500 DUMMY-SECTION.
043600 5000-DUMMY.
043700      EXIT.
043800 END-OF-JOB.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES220E.
000300*      VA EDIT UPDATE
000400*
000500 AUTHOR. FRANK WILEY.
000600 DATE-WRITTEN. 05 SEP 79.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400      SELECT VA1Z-OUT ASSIGN TO D1
001500          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600      SELECT VA1K-IN ASSIGN TO I1
001700          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800      SELECT PRINT-FILE ASSIGN TO P1-PRINTER

```

001900 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
002000 DATA DIVISION.  
002100 SUB-SCHEMA SECTION.  
002200 DB CODVAL2 WITHIN BLMDIC.  
002300 FILE SECTION.  
002400 FD VALZ-OUT  
002500 CODE-SET IS GBCD  
002600 LABEL RECORD IS STANDARD.  
002700 01 VALZ-RCD PIC X(90).  
002800 FD VALK-IN  
002900 CODE-SET IS GBCD  
003000 LABEL RECORDS ARE STANDARD.  
003100 01 VALK-RCD.  
003200 03 REC-TYP-I1 PIC XXXX.  
003300 03 SDRP-I1 PIC X(8).  
003400 03 FILLER PIC X(78).  
003500 FD PRINT-FILE  
003600 CODE-SET IS GBCD  
003700 LABEL RECORDS ARE STANDARD  
003800 DATA RECORD IS PRINT-RCD.  
003900 01 PRINT-RCD PIC X(132).  
004000 WORKING-STORAGE SECTION.  
004100 77 1ST-TIME-FLG PIC 9(01) COMP-4 VALUE ZERO.  
004200 77 AD-ST-H PIC X(02).  
004300 77 DUPE-1-HLD PIC X(14) VALUE SPACES.  
004400 77 DUPE-2-HLD PIC X(4) VALUE SPACES.  
004500 77 ERR-CNT PIC 9(5) VALUE ZERO.  
004600 77 ERROR-SW COMP-4 PIC 9 VALUE ZERO.  
004700 77 HDR-SW1 COMP-4 PIC 9 VALUE ZERO.  
004800 77 HDR-SW2 COMP-4 PIC 9 VALUE ZERO.  
004900 77 HDR-SW3 COMP-4 PIC 9 VALUE ZERO.  
005000 77 LINE-CNT COMP-4 PIC 99 VALUE ZERO.  
005100 77 PAGE-NO COMP-4 PIC 9(6) VALUE ZERO.  
005200 77 PAGE-SW COMP-4 PIC 9 VALUE 1.  
005300 77 PROCESS-SW COMP-4 PIC 9 VALUE ZERO.  
005400 77 SS1A PIC 9(01) COMP-4 VALUE 1.  
005500 77 SUB COMP-4 PIC 9 VALUE 1.  
005600 77 TOTL-SW COMP-4 PIC 9 VALUE ZERO.  
005700 01 HOLD-AREA.  
005800 03 ALLOT-NUM-HOLD PIC X(4).  
005900 03 BLM-ADM-HOLD.  
006000 05 ST-HOLD PIC XX.  
006100 05 DT-HOLD PIC XX.  
006200 05 RA-HOLD PIC XX.  
006300 05 PLU-HOLD PIC XX.  
006400 03 DATE-H.  
006500 05 YEAR-H PIC X(02).  
006600 05 MON-H PIC 9(02).  
006700 05 DAY-H PIC X(02).  
006800 03 DE-CD-EXPLN-8827-DECE-H.  
006900 05 DE-H PIC 9(04).  
007000 05 FILLER PIC X(36).  
007100 03 DE-EXT-CD-NAM-8825-DEEE-H.  
007200 05 ALL-SEC PIC X(01).  
007300 05 1-SEC PIC X(01) OCCURS 36 TIMES.  
007400 05 FILLER PIC X(15).  
007500 03 DIST-H PIC XX.

007600	03	EXPL-HOLD.	
007700	05	DIST-NAME	PIC X(10).
007800	05	FILLER	PIC X.
007900	05	RA-NAME	PIC X(12).
008000	05	FILLER	PIC X.
008100	05	PLU-NAME	PIC X(15).
008200	05	FILLER	PIC X.
008300	03	FUNC-HOLD.	
008400	05	STATE-NAME	PIC X(10).
008500	05	FILLER	PIC X(14).
008600	03	MAP-SRC-HOLD	PIC X(4).
008700	03	MER-TWP-RNG-H.	
008800	05	MER-H	PIC X(02).
008900	05	TWP-RNG-H	PIC X(10).
009000	03	MTR-MER-CD-HOLD	PIC XX.
009100	03	PASTURE-NUM-HOLD	PIC XX.
009200	01	TABLE-AREA.	
009300	03	DE-V.	
009400	05	FILLER	PIC 9(12) VALUE 999999999999.
009500	05	FILLER	PIC 9(12) VALUE 999999999999.
009600	03	DE-T REDEFINES DE-V	PIC 9(04) OCCURS 6 TIMES.
009700	03	MO-V	PIC X(36) VALUE "JANFEBMARAPRMAYJUNJULAUGSEP OCTNOV
009800-			"DEC".
009900	03	MO-T REDEFINES MO-V	PIC X(03) OCCURS 12 TIMES.
010000		COPY DBSTATUS OF TPCOBOLIB.	
010100	01	RECORD-VA1D.	
010200	03	KEY-VA1D.	
010300	05	DIC-VA1D.	
010400	07	REC-TYP	PIC X(2).
010500	07	FMT-NUM	PIC X(1).
010600	07	FMT-CD	PIC X(1).
010700	03	BLM-ADM-U-0003.	
010800	05	BLM-ADM-4.	
010900	07	BLM-ADM-3.	
011000	09	BLM-ADM-2.	
011100	11	AD-ST-IN	PIC XX.
011200	11	BLM-ADM-DIST	PIC XX.
011300	09	BLM-ADM-RA	PIC XX.
011400	07	BLM-ADM-PLU	PIC XX.
011500	05	ALLOT-NUM	PIC X(4).
011600	05	PASTURE-NUM	PIC X(2).
011700	05	DATA-DATE.	
011800	07	DATA-DATE-YY	PIC X(2).
011900	07	DATA-DATE-MM	PIC X(2).
012000	07	DATA-DATE-DD	PIC X(2).
012100	05	ACTN-CD	PIC X(1).
012200	05	MAP-SRC-IN	PIC X(4).
012300	05	MTR-MER-CD-IN	PIC X(2).
012400	05	LIN-NUM	PIC X(4).
012500	03	TWP-RNG-IN.	
012600	05	MTR-TWNSHP-IN.	
012700	07	TWNSHIP-3	PIC X(3).
012800	07	TWNSHIP-2	PIC XX.
012900	05	MTR-RNG-IN.	
013000	07	RNGE-3	PIC X(3).
013100	07	RNGE-2	PIC XX.
013200	03	SEC-SECT-IN.	

013300 05 FILLER PIC X(01).  
013400 05 SEC-C2-3-IN PIC 9(02).  
013500 03 SWA.  
013600 05 SWA-CD PIC X(1).  
013700 05 SWA-NUM PIC X(3).  
013800 03 ALIQ-PART.  
013900 05 ALIQ-PART-QRT OCCURS 4 TIMES.  
014000 07 ALIQ-1 PIC X.  
014100 07 ALIQ-2 PIC X.  
014200 07 ALIQ-3 PIC X.  
014300 07 ALIQ-4 PIC X.  
014400 03 ACR-DU-OWNR PIC X(5).  
014500 03 OWN-TYP.  
014600 05 OWN-TYP-2.  
014700 07 OWN-TYP-1 PIC X.  
014800 07 FILLER PIC X.  
014900 05 FILLER PIC XX.  
015000 03 JURIS PIC X(4).  
015100 03 MGT-ADM PIC X(4).  
015200 03 LAND-TYP PIC X(4).  
015300 03 FILLER PIC X.  
015400 01 ERR-LINE.  
015500 03 FILLER PIC X(12) VALUE " THERE WERE ".  
015600 03 CNT-ERRS PIC ZZ,ZZZ.  
015700 03 FILLER PIC X(18) VALUE " VA ERROR RECORDS ".  
015800 03 FILLER PIC X(9) VALUE "PRINTED. ".  
015900 01 HDR-1.  
016000 03 FILLER PIC X(24) VALUE " PCN ES220EP1 AS OF ".  
016100 03 DD PIC X(02).  
016200 03 FILLER PIC X VALUE SPACE.  
016300 03 MMM PIC X(03).  
016400 03 FILLER PIC X VALUE SPACE.  
016500 03 YY PIC X(02).  
016600 03 FILLER PIC X(09) VALUE SPACES.  
016700 03 FILLER PIC X(48) VALUE  
016800 "USDI- BUR OF LAND MGT ECOLOGICAL SITE INVENTORY".  
016900 03 FILLER PIC X(29) VALUE SPACES.  
017000 03 FILLER PIC X(7) VALUE "PAGE ".  
017100 03 PAGE-CNT PIC Z(06).  
017200 01 HDR-2.  
017300 03 FILLER PIC X(17) VALUE SPACES.  
017400 03 FILLER PIC X(8) VALUE "STATE ".  
017500 03 ST-HDR PIC X(15).  
017600 03 FILLER PIC X(16) VALUE SPACES.  
017700 03 FILLER PIC X(7) VALUE "DIST ".  
017800 03 DIST-HDR PIC X(15).  
017900 03 FILLER PIC X(15) VALUE SPACES.  
018000 03 FILLER PIC X(22) VALUE "VA EDIT ERROR LISTING".  
018100 03 FILLER PIC X(17) VALUE SPACES.  
018200 01 HDR-3.  
018300 03 FILLER PIC X(40) VALUE  
018400 " REC TYP ST DIST RA".  
018500 03 FILLER PIC X(40) VALUE  
018600 " PLU ALLOT PASTURE ".  
018700 03 FILLER PIC X(40) VALUE  
018800 " DATE ACTN MAP SOURCE ".  
018900 03 FILLER PIC X(12) VALUE SPACES.

```

019000 01  HDR-4.
019100 03  FILLER PIC X(9) VALUE SPACES.
019200 03  FILLER PIC X(43) VALUE
019300 "1-4 5-6 7-8 9-10 11-12".
019400 03  FILLER PIC X(44) VALUE
019500 " 13-16 17-18 19-24 25".
019600 03  FILLER PIC X(36) VALUE
019700 " 26-29 ".
019800 01  HDR-5.
019900 03  FILLER PIC X(9) VALUE SPACES.
020000 03  FILLER PIC X(42) VALUE
020100 "XXXX XX XX XX XX".
020200 03  FILLER PIC X(45) VALUE
020300 " XXXX XX XXXXXX X".
020400 03  FILLER PIC X(36) VALUE
020500 " XXXX ".
020600 01  HDR-6.
020700 03  FILLER PIC X(40) VALUE
020800 "MERIDIAN LINE TOWNSHIP RNGE SECT ".
020900 03  FILLER PIC X(40) VALUE
021000 "SWA NE 1/4 NW 1/4 SW 1/4 ".
021100 03  FILLER PIC X(40) VALUE
021200 "SE 1/4 ACRES SURF OWN JURIS ADMIN ".
021300 03  FILLER PIC X(12) VALUE
021400 " LAND TYPE ".
021500 01  HDR-7.
021600 03  FILLER PIC X(40) VALUE
021700 " 30-31 32-35 36-40 41-45 46-48 4".
021800 03  FILLER PIC X(40) VALUE
021900 "9-52 53-56 57-60 61-64 ".
022000 03  FILLER PIC X(40) VALUE
022100 " 65-68 69-73 74-77 78-81 82-85 ".
022200 03  FILLER PIC X(12) VALUE
022300 " 86-89 ".
022400 01  HDR-8.
022500 03  FILLER PIC X(40) VALUE
022600 " XX XXXX XXX XX XXX XX XXX ".
022700 03  FILLER PIC X(40) VALUE
022800 "XXXX X X X X X X X X X X X X ".
022900 03  FILLER PIC X(40) VALUE
023000 "X X X X XXXXX XXXX XXXX XXXX ".
023100 03  FILLER PIC X(12) VALUE
023200 " XXXX ".
023300 01  PRINT-1 VALUE SPACES.
023400 03  FILLER PIC X(9).
023500 03  REC-TYP-P PIC X(4).
023600 03  FILLER PIC X(7).
023700 03  AD-ST-P PIC XX.
023800 03  FILLER PIC X(8).
023900 03  BLM-ADM-DIST-P PIC XX.
024000 03  FILLER PIC X(6).
024100 03  BLM-ADM-RA-P PIC XX.
024200 03  FILLER PIC X(9).
024300 03  BLM-ADM-PLU-P PIC XX.
024400 03  FILLER PIC X(9).
024500 03  ALLOT-NUM-P PIC X(4).
024600 03  FILLER PIC X(9).

```

024700	03	PASTURE-NUM-P	PIC XX.
024800	03	FILLER	PIC X(7).
024900	03	DATA-DATE-P	PIC X(6).
025000	03	FILLER	PIC X(7).
025100	03	ACTN-CD-P	PIC X.
025200	03	FILLER	PIC X(10).
025300	03	MAP-SOURCE-P	PIC X(4).
025400	03	FILLER	PIC X(13).
025500	03	FILLER	PIC X(9).
025600	01	PRINT-2 VALUE SPACES.	
025700	03	FILLER	PIC X(9).
025800	03	RCD-ERR	PIC X(4).
025900	03	FILLER	PIC X(7).
026000	03	ST-ERR	PIC XX.
026100	03	FILLER	PIC X(8).
026200	03	DT-ERR	PIC XX.
026300	03	FILLER	PIC X(6).
026400	03	RA-ERR	PIC XX.
026500	03	FILLER	PIC X(9).
026600	03	PLU-ERR	PIC XX.
026700	03	FILLER	PIC X(9).
026800	03	ALLOT-ERR	PIC X(4).
026900	03	FILLER	PIC X(9).
027000	03	PASTURE-ERR	PIC XX.
027100	03	FILLER	PIC X(31).
027200	03	MAP-ERR	PIC X(4).
027300	03	FILLER	PIC X(13).
027400	03	MERID-ERR	PIC XX.
027500	03	FILLER	PIC X(7) .
027600	01	PRINT-3.	
027700	03	FILLER	PIC X(3) VALUE SPACES.
027800	03	MERIDIAN-P	PIC XX.
027900	03	FILLER	PIC X(4) VALUE SPACES.
028000	03	LIN-NUM-P	PIC X(4).
028100	03	FILLER	PIC X(2) VALUE SPACES.
028200	03	TWNSHIP-P	PIC X(3).
028300	03	FILLER	PIC X VALUE ". ".
028400	03	TWNSHIP-P1	PIC XX.
028500	03	FILLER	PIC XX VALUE SPACES.
028600	03	RNGE-P	PIC XXX.
028700	03	FILLER	PIC X VALUE ". ".
028800	03	RNGE-P1	PIC XX.
028900	03	FILLER	PIC XXX VALUE SPACES.
029000	03	SECT-P	PIC XXX.
029100	03	FILLER	PIC X(5) VALUE SPACES.
029200	03	SWA-P	PIC X(4).
029300	03	FILLER	PIC XX VALUE SPACES.
029400	03	FILLER	PIC X VALUE ". ".
029500	03	NE-P	PIC X.
029600	03	FILLER	PIC X VALUE ". ".
029700	03	NE-P1	PIC X.
029800	03	FILLER	PIC X VALUE ". ".
029900	03	NE-P2	PIC X.
030000	03	FILLER	PIC X VALUE ". ".
030100	03	NE-P3	PIC X.
030200	03	FILLER	PIC X(04) VALUE ". . ".
030300	03	NW-P	PIC X.

030400	03	FILLER	PIC X VALUE ". ".
030500	03	NW-P1	PIC X.
030600	03	FILLER	PIC X VALUE ". ".
030700	03	NW-P2	PIC X.
030800	03	FILLER	PIC X VALUE ". ".
030900	03	NW-P3	PIC X.
031000	03	FILLER	PIC X(04) VALUE ". .".
031100	03	SW-P	PIC X.
031200	03	FILLER	PIC X VALUE ". ".
031300	03	SW-P1	PIC X.
031400	03	FILLER	PIC X VALUE ". ".
031500	03	SW-P2	PIC X.
031600	03	FILLER	PIC X VALUE ". ".
031700	03	SW-P3	PIC X.
031800	03	FILLER	PIC X(04) VALUE ". .".
031900	03	SE-P	PIC X.
032000	03	FILLER	PIC X VALUE ". ".
032100	03	SE-P1	PIC X.
032200	03	FILLER	PIC X VALUE ". ".
032300	03	SE-P2	PIC X.
032400	03	FILLER	PIC X VALUE ". ".
032500	03	SE-P3	PIC X.
032600	03	FILLER	PIC XXX VALUE ". ".
032700	03	ACRES-P	PIC X(5).
032800	03	FILLER	PIC X(5) VALUE SPACES.
032900	03	SURF-OWN-P	PIC X(4).
033000	03	FILLER	PIC X(4) VALUE SPACES.
033100	03	JURIS-P	PIC X(4).
033200	03	FILLER	PIC X(3) VALUE SPACES.
033300	03	ADMIN-P	PIC X(4).
033400	03	FILLER	PIC X(5) VALUE SPACES.
033500	03	LAND-TYP-P	PIC X(4).
033600	03	FILLER	PIC X(4) VALUE SPACES.
033700	01	PRINT-4	VALUE SPACES.
033800	03	FILLER	PIC X(15).
033900	03	TWNSHIP-ERR	PIC X(6).
034000	03	FILLER	PIC X(2).
034100	03	RNGE-ERR	PIC X(6).
034200	03	FILLER	PIC X(3).
034300	03	SECT-ERR	PIC X(3).
034400	03	FILLER	PIC X(5).
034500	03	SWA-ERR	PIC X(4).
034600	03	FILLER	PIC XX.
034700	03	NE-ERR	PIC X(9).
034800	03	FILLER	PIC X(2).
034900	03	NW-ERR	PIC X(9).
035000	03	FILLER	PIC X(2).
035100	03	SW-ERR	PIC X(9).
035200	03	FILLER	PIC X(2).
035300	03	SE-ERR	PIC X(9).
035400	03	FILLER	PIC X(2).
035500	03	ACRES-ERR	PIC X(5).
035600	03	FILLER	PIC X(5).
035700	03	SURF-ERR	PIC X(4).
035800	03	FILLER	PIC X(4).
035900	03	JURIS-ERR	PIC X(4).
036000	03	FILLER	PIC X(3).



```

036100      03  ADMIN-ERR                PIC X(4).
036200      03  FILLER                   PIC X(5).
036300      03  LND-TYP-ERR              PIC X(4).
036400      03  FILLER                   PIC X(4).
036500  01  INFO-LIN-1.
036600      03  FILLER                   PIC X(24) VALUE SPACES.
036700      03  FILLER                   PIC X(38) VALUE
036800      "IF ERROR CORRECTION IS IN COMMON DATA ".
036900      03  FILLER                   PIC X(46) VALUE
037000      "(1-29), KEY ALL RECORDS WITH SAME COMMON DATA.".
037100      03  FILLER                   PIC X(24) VALUE SPACES.
037200  01  INFO-LIN-2.
037300      03  FILLER                   PIC X(24) VALUE SPACES.
037400      03  FILLER                   PIC X(42) VALUE
037500      "IF ERROR CORRECTION IS IN FIELD POSITIONS ".
037600      03  FILLER                   PIC X(45) VALUE
037700      "(30-89), KEY (1-35) AND RED CORRECTED FIELDS.".
037800      03  FILLER                   PIC X(21) VALUE SPACES.
037900  PROCEDURE DIVISION.
038000  START-SECTION.
038100      OPEN INPUT  VA1K-IN,
038200          OUTPUT PRINT-FILE, VA1Z-OUT.  READY DIC-DE.
038300      ACCEPT DATE-H FROM DATE.  MOVE DAY-H TO DD.
038400      MOVE MO-T (MON-H) TO MMM.  MOVE YEAR-H TO YY.
038500  010-READ.
038600      READ VA1K-IN AT END  GO TO 260-END.
038700      IF SDRP-I1 = "WY047825"
038800          MOVE "WY048835" TO SDRP-I1.
038900      MOVE VA1K-RCD TO RECORD-VA1D.
039000  020-HOLD.
039100      MOVE BLM-ADM-4 TO BLM-ADM-HOLD.
039200      MOVE ALLOT-NUM TO ALLOT-NUM-HOLD.
039300      MOVE PASTURE-NUM TO PASTURE-NUM-HOLD.
039400      MOVE MAP-SRC-IN TO MAP-SRC-HOLD.
039500      MOVE MTR-MER-CD-IN TO MTR-MER-CD-HOLD.
039600  025-EDIT-RCD-TYP.
039700      IF DIC-VA1D = "VA1D"
039800          GO TO 035-BLM-ST.
039900      IF REC-TYP = "VA"
040000          GO TO 030-ERROR-VA.
040100      DISPLAY "RECORD NOT PROCESSED" VA1K-RCD.
040200      GO TO 010-READ.
040300  030-ERROR-VA.
040400      MOVE 1 TO HDR-SW1.
040500      MOVE ALL "*" TO RCD-ERR.
040600  035-BLM-ST.
040700      MOVE AD-ST-IN TO DE-CD-8822-DEC.
040800      MOVE 0003 TO DE-NO-8801-DEC.
040900      FIND ANY CODE-DEC.
041000      MOVE DB-STATUS TO DATA-BASE-STATUS.
041100      IF OK
041200          GET CODE-DEC
041300              MOVE DE-CD-NAM-8823-DEC TO FUNC-HOLD
041400              MOVE STATE-NAME TO ST-HDR
041500              GO TO 040-BLM-DIST.
041600      MOVE 1 TO HDR-SW1.
041700      MOVE "UNKNOWN" TO ST-HDR, DIST-HDR.

```

```

041800     MOVE ALL "*" TO ST-ERR, DT-ERR, RA-ERR, PLU-ERR.
041900     GO TO 060-EXIT-BLM.
042000 040-BLM-DIST.
042100     MOVE BLM-ADM-2 TO DE-CD-8822-DEC.
042200     MOVE 0003 TO DE-NO-8801-DEC.
042300     FIND ANY CODE-DEC.
042400     MOVE DB-STATUS TO DATA-BASE-STATUS.
042500     IF OK
042600         GET CODE-DEC
042700         GO TO 045-FIND-DT.
042800     MOVE "UNKNOWN" TO DIST-HDR.
042900     MOVE 1 TO HDR-SW1.
043000     MOVE ALL "*" TO DT-ERR, RA-ERR, PLU-ERR.
043100     GO TO 060-EXIT-BLM.
043200 045-FIND-DT.
043300     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
043400     MOVE DB-STATUS TO DATA-BASE-STATUS.
043500     IF OK
043600         GET CODE-EXPL-DECE
043700         MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HOLD
043800         MOVE DIST-NAME TO DIST-HDR
043900         GO TO 050-BLM-RA.
044000     MOVE "UNKNOWN" TO DIST-HDR.
044100 050-BLM-RA.
044200     MOVE BLM-ADM-3 TO DE-CD-8822-DEC.
044300     MOVE 0003 TO DE-NO-8801-DEC.
044400     FIND ANY CODE-DEC.
044500     MOVE DB-STATUS TO DATA-BASE-STATUS.
044600     IF OK
044700         GO TO 055-BLM-PLU.
044800     MOVE 1 TO HDR-SW1.
044900     MOVE ALL "*" TO RA-ERR, PLU-ERR.
045000     GO TO 060-EXIT-BLM.
045100 055-BLM-PLU.
045200     MOVE BLM-ADM-4 TO DE-CD-8822-DEC.
045300     MOVE 0003 TO DE-NO-8801-DEC.
045400     FIND ANY CODE-DEC.
045500     MOVE DB-STATUS TO DATA-BASE-STATUS.
045600     IF OK
045700         GO TO 060-EXIT-BLM.
045800     MOVE ALL "*" TO PLU-ERR.
045900     MOVE 1 TO HDR-SW1.
046000 060-EXIT-BLM.
046100     EXIT.
046200 065-EDIT-ALLOT.
046300     IF ALLOT-NUM NUMERIC
046400         GO TO 070-EDIT-PASTURE.
046500     MOVE 1 TO HDR-SW1.
046600     MOVE ALL "*" TO ALLOT-ERR.
046700 070-EDIT-PASTURE.
046800     IF PASTURE-NUM = SPACES
046900         GO TO 075-MAP-SRC.
047000     IF PASTURE-NUM = ZERO
047100         GO TO 075-MAP-SRC.
047200     IF PASTURE-NUM NUMERIC AND PASTURE-NUM > ZERO
047300         GO TO 075-MAP-SRC.
047400     MOVE 1 TO HDR-SW1.

```

```

047500     MOVE ALL "*" TO PASTURE-ERR.
047600 075-MAP-SRC.
047700     MOVE 3540 TO DE-NO-8801-DEC.
047800     MOVE MAP-SRC-IN TO DE-CD-8822-DEC.
047900     FIND ANY CODE-DEC.  MOVE DB-STATUS TO DATA-BASE-STATUS.
048000     IF NOT OK  MOVE 1 TO HDR-SW1,  MOVE ALL "*" TO MAP-ERR.
048100     IF 1ST-TIME-FLG NOT ZERO  GO TO 082-CHK-AD-ST-IN.
048200     MOVE 1 TO 1ST-TIME-FLG.  MOVE 0100 TO DE-NO-8801-DEC.
048300     MOVE AD-ST-IN TO AD-ST-H,  DE-CD-8822-DEC.
048400     FIND ANY CODE-DEC.  MOVE DB-STATUS TO DATA-BASE-STATUS.
048500     IF NOT OK  DISPLAY "STATE ", AD-ST-IN,
048600         " NOT IN DE DIC - RUN ABORTED"  CALL "ABOR".
048700     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
048800     MOVE DB-STATUS TO DATA-BASE-STATUS.
048900     IF NOT OK  DISPLAY "NO DE FOR STATE ",
049000         AD-ST-IN, " - RUN ABORTED"  CALL "ABOR".
049100 080-GET-LOOP.
049200     GET.  MOVE DE-CD-EXPLN-8827-DECE TO DE-CD-EXPLN-8827-DECE-H.
049300     MOVE DE-H TO DE-T (SS1A).
049400     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
049500     MOVE DB-STATUS TO DATA-BASE-STATUS.
049600     IF NOT OK  GO TO 082-CHK-AD-ST-IN.
049700     ADD 1 TO SS1A.  IF SS1A > 5  DISPLAY
049800         "MORE THAN 5 DE'S FOR STATE ", AD-ST-IN,
049900         " - RUN ABORTED"  CALL "ABOR".  GO TO 080-GET-LOOP.
050000 082-CHK-AD-ST-IN.
050100     IF AD-ST-IN NOT = AD-ST-H  DISPLAY "STATE IN ", AD-ST-IN,
050200         " NOT EQUAL TO STATE HOLD ", AD-ST-H,
050300         " - RUN ABORTED"  CALL "ABOR".
050400     MOVE MTR-MER-CD-IN TO MER-H.  MOVE TWP-RNG-IN TO TWP-RNG-H.
050500     MOVE MER-TWP-RNG-H TO DE-EXT-CD-8824-DEE.  MOVE 1 TO SS1A.
050600 084-DE-LOOP.
050700     MOVE DE-T (SS1A) TO DE-NO-8801-DEE.
050800     IF DE-NO-8801-DEE = 9999  GO TO 090-MER-TWP-RNG-ERR.
050900     FIND ANY EXT-CODE-DEE.  MOVE DB-STATUS TO DATA-BASE-STATUS.
051000     IF NOT OK  GO TO 088-CHK-SS1A.
051100     IF SEC-SECT-IN NOT NUMERIC
051200         OR SEC-SECT-IN < "001" OR > "036"  GO TO 092-SEC-ERR.
051300     FIND NEXT EXT-CODE-EXPL-DEEE WITHIN DEE-DEEE.
051400     MOVE DB-STATUS TO DATA-BASE-STATUS.
051500     IF NOT OK  DISPLAY "NO SECTIONS FOR MER, TWP, RNG ",
051600         MER-TWP-RNG-H, " - RUN ABORTED"  CALL "ABOR".
051700 086-GET-LOOP.
051800     GET.
051900     MOVE DE-EXT-CD-NAM-8825-DEEE TO DE-EXT-CD-NAM-8825-DEEE-H.
052000     IF ALL-SEC = "X" OR 1-SEC (SEC-C2-3-IN) = "X"
052100         GO TO 100-SWA.
052200     FIND NEXT EXT-CODE-EXPL-DEEE WITHIN DEE-DEEE.
052300     MOVE DB-STATUS TO DATA-BASE-STATUS.
052400     IF NOT OK  GO TO 092-SEC-ERR.  GO TO 086-GET-LOOP.
052500 088-CHK-SS1A.
052600     IF SS1A < 6  ADD 1 TO SS1A  GO TO 084-DE-LOOP.
052700 090-MER-TWP-RNG-ERR.
052800     MOVE ALL "*" TO MERID-ERR,  TWNSHIP-ERR,  RNGE-ERR.
052900     MOVE 1 TO HDR-SW2.
053000 092-SEC-ERR.
053100     MOVE ALL "*" TO SECT-ERR.

```

```

053200     MOVE 1 TO HDR-SW2.
053300 100-SWA.
053400     IF SWA-CD NOT ALPHABETIC OR SWA-CD = SPACE
053500         OR SWA-NUM NOT NUMERIC
053600         MOVE 1 TO HDR-SW2  MOVE ALL "*" TO SWA-ERR.
053700 105-ALIQ-1.
053800     IF ALIQ-1 (SUB) NOT = SPACES AND "X"
053900         PERFORM 125-ALIQ-ERR.
054000     ADD 1 TO SUB.
054100     IF SUB = 5
054200         MOVE 1 TO SUB
054300         GO TO 110-ALIQ-2.
054400     GO TO 105-ALIQ-1.
054500 110-ALIQ-2.
054600     IF ALIQ-2 (SUB) NOT = SPACES AND "X"
054700         PERFORM 125-ALIQ-ERR.
054800     ADD 1 TO SUB.
054900     IF SUB = 5
055000         MOVE 1 TO SUB
055100         GO TO 115-ALIQ-3.
055200     GO TO 110-ALIQ-2.
055300 115-ALIQ-3.
055400     IF ALIQ-3 (SUB) NOT = SPACES AND "X"
055500         PERFORM 125-ALIQ-ERR.
055600     ADD 1 TO SUB.
055700     IF SUB = 5
055800         MOVE 1 TO SUB
055900         GO TO 120-ALIQ-4.
056000     GO TO 115-ALIQ-3.
056100 120-ALIQ-4.
056200     IF ALIQ-4 (SUB) NOT = SPACES AND "X"
056300         PERFORM 125-ALIQ-ERR.
056400     ADD 1 TO SUB.
056500     IF SUB = 5
056600         MOVE 1 TO SUB
056700         GO TO 130-EXIT-ALIQ.
056800     GO TO 120-ALIQ-4.
056900 125-ALIQ-ERR.
057000     IF SUB = 1
057100         MOVE ALL "*" TO NE-ERR.
057200     IF SUB = 2
057300         MOVE ALL "*" TO NW-ERR.
057400     IF SUB = 3
057500         MOVE ALL "*" TO SW-ERR.
057600     IF SUB = 4
057700         MOVE ALL "*" TO SE-ERR.
057800     MOVE 1 TO HDR-SW2.
057900 130-EXIT-ALIQ.
058000     EXIT.
058100 140-ACRES.
058200     IF ACR-DU-OWNR NUMERIC AND ACR-DU-OWNR > ZERO
058300         GO TO 145-OWNERSHIP.
058400     MOVE 1 TO HDR-SW2.
058500     MOVE ALL "*" TO ACRES-ERR.
058600 145-OWNERSHIP.
058700     IF OWN-TYP = "TOTL"
058800         PERFORM 400-ZERO-OUT

```

```

058900         MOVE 1 TO TOTL-SW
059000         GO TO 164-TOTL-SW.
059100         IF OWN-TYP-2 = "NC" OR "NP" OR
059200           "NQ" OR "NS" OR "NT"
059300         GO TO 146-BLANK.
059400         IF OWN-TYP-2 = "FA" OR "FP"
059500         GO TO 150-JURIS.
059600         IF OWN-TYP-1 = "P" OR "S"
059700         GO TO 146-BLANK.
059800         MOVE 1 TO HDR-SW2.
059900         MOVE ALL "*" TO SURF-ERR.
060000         GO TO 150-JURIS.
060100 146-BLANK.
060200         IF JURIS NOT = TO SPACES
060300         MOVE 1 TO HDR-SW2
060400         MOVE ALL "*" TO JURIS-ERR SURF-ERR.
060500         IF MGT-ADM NOT = TO SPACES
060600         MOVE 1 TO HDR-SW2
060700         MOVE ALL "*" TO ADMIN-ERR SURF-ERR.
060800         IF LAND-TYP NOT = TO SPACES
060900         MOVE 1 TO HDR-SW2
061000         MOVE ALL "*" TO LND-TYP-ERR SURF-ERR.
061100         GO TO 165-EXIT-EDIT.
061200 150-JURIS.
061300         MOVE JURIS TO DE-CD-8822-DEC.
061400         MOVE 2576 TO DE-NO-8801-DEC.
061500         FIND ANY CODE-DEC.
061600         MOVE DB-STATUS TO DATA-BASE-STATUS.
061700         IF OK
061800         GO TO 155-ADMIN.
061900         MOVE 1 TO HDR-SW2.
062000         MOVE ALL "*" TO JURIS-ERR.
062100 155-ADMIN.
062200         MOVE MGT-ADM TO DE-CD-8822-DEC.
062300         MOVE 2576 TO DE-NO-8801-DEC.
062400         FIND ANY CODE-DEC.
062500         MOVE DB-STATUS TO DATA-BASE-STATUS.
062600         IF OK
062700         GO TO 160-TYP-LAND.
062800         MOVE 1 TO HDR-SW2.
062900         MOVE ALL "*" TO ADMIN-ERR.
063000 160-TYP-LAND.
063100         MOVE LAND-TYP TO DE-CD-8822-DEC.
063200         MOVE 3801 TO DE-NO-8801-DEC.
063300         FIND ANY CODE-DEC.
063400         MOVE DB-STATUS TO DATA-BASE-STATUS.
063500         IF OK
063600         GO TO 165-EXIT-EDIT.
063700         MOVE 1 TO HDR-SW2.
063800         MOVE ALL "*" TO LND-TYP-ERR.
063900 164-TOTL-SW.
064000         IF TOTL-SW = 1
064100         MOVE ZERO TO TOTL-SW
064200         GO TO 010-READ.
064300 165-EXIT-EDIT.
064400         EXIT.
064500 168-SWITCH-CHECK.

```

```

064600     IF HDR-SW1 = ZERO
064700         GO TO 180-HDR-SW2.
064800     IF PAGE-SW = 1
064900         PERFORM 410-HDR-ST-DIST
065000         MOVE ZERO TO PAGE-SW.
065100     PERFORM 420-HDRS-CNTL.
065200 170-WRITE-CONTROL.
065300     PERFORM 430-MOVE-CTL-DATA.
065400     MOVE PRINT-2 TO PRINT-RCD.
065500     WRITE PRINT-RCD BEFORE 2.
065600     ADD 2 TO LINE-CNT.
065700     MOVE 1 TO ERROR-SW.
065800 175-WRITE-LIN-DATA.
065900     PERFORM 440-HDRS-LIN-DATA.
066000     PERFORM 450-LIN-DATA.
066100     IF HDR-SW2 = ZERO
066200         MOVE SPACES TO PRINT-RCD
066300         ELSE
066400         MOVE PRINT-4 TO PRINT-RCD
066500         MOVE 1 TO ERROR-SW.
066600     WRITE PRINT-RCD BEFORE 2.
066700     ADD 2 TO LINE-CNT.
066800 176-DUMMY.
066900     GO TO 185-NEW-RCD.
067000 180-HDR-SW2.
067100     IF HDR-SW2 = ZERO
067200         GO TO 185-NEW-RCD.
067300     IF PAGE-SW = ZERO
067400         PERFORM 175-WRITE-LIN-DATA
067500         GO TO 185-NEW-RCD.
067600     PERFORM 410-HDR-ST-DIST THRU 430-MOVE-CTL-DATA.
067700     MOVE SPACES TO PRINT-RCD.
067800     WRITE PRINT-RCD BEFORE 2.
067900     ADD 2 TO LINE-CNT.
068000     PERFORM 440-HDRS-LIN-DATA THRU 450-LIN-DATA.
068100     MOVE PRINT-4 TO PRINT-RCD.
068200     WRITE PRINT-RCD BEFORE 2.
068300     ADD 2 TO LINE-CNT.
068400     MOVE ZERO TO PAGE-SW.
068500 185-NEW-RCD.
068600     IF PASTURE-NUM = SPACES
068700         MOVE ZERO TO PASTURE-NUM.
068800     MOVE RECORD-VALD TO VALZ-RCD.
068900     WRITE VALZ-RCD.
069000 195-READ-VALK.
069100     READ VALK-IN AT END GO TO 260-END.
069200     IF SDRP-I1 = "WY047825"
069300         MOVE "WY048835" TO SDRP-I1.
069400     MOVE VALK-RCD TO RECORD-VALD.
069500     IF DIC-VALD = "VALD"
069600         GO TO 200-BLM-ST.
069700     IF REC-TYP = "VA"
069800         PERFORM 030-ERROR-VA
069900         GO TO 200-BLM-ST.
070000     DISPLAY "RECORD NOT PROCESSED".
070100     DISPLAY VALK-RCD.
070200     GO TO 195-READ-VALK.

```

```
070300 200-BLM-ST.
070400     IF AD-ST-IN = ST-HOLD
070500         GO TO 210-BLM-DIST.
070600     PERFORM 205-NEW-PAGE.
070700     GO TO 035-BLM-ST.
070800 205-NEW-PAGE.
070900     MOVE ZERO TO PAGE-NO.
071000     PERFORM 400-ZERO-OUT.
071100     PERFORM 020-HOLD.
071200 210-BLM-DIST.
071300     IF BLM-ADM-DIST = DT-HOLD
071400         GO TO 215-BLM-RA.
071500     PERFORM 205-NEW-PAGE.
071600     MOVE SPACES TO PRINT-2, PRINT-4.
071700     GO TO 035-BLM-ST.
071800 215-BLM-RA.
071900     IF BLM-ADM-RA = RA-HOLD
072000         GO TO 220-BLM-PLU.
072100     MOVE 1 TO PAGE-SW.
072200     PERFORM 400-ZERO-OUT.
072300     PERFORM 020-HOLD.
072400     GO TO 035-BLM-ST.
072500 220-BLM-PLU.
072600     IF BLM-ADM-PLU = PLU-HOLD
072700         GO TO 225-EDIT-ALLOT.
072800     MOVE 1 TO PAGE-SW.
072900     PERFORM 400-ZERO-OUT.
073000     PERFORM 020-HOLD.
073100     GO TO 035-BLM-ST.
073200 225-EDIT-ALLOT.
073300     IF ALLOT-NUM = ALLOT-NUM-HOLD
073400         GO TO 230-PASTURE.
073500     MOVE 1 TO PAGE-SW.
073600     PERFORM 400-ZERO-OUT.
073700     PERFORM 020-HOLD.
073800     GO TO 065-EDIT-ALLOT.
073900 230-PASTURE.
074000     IF PASTURE-NUM = PASTURE-NUM-HOLD
074100         GO TO 235-MAP.
074200     MOVE 1 TO PAGE-SW.
074300     PERFORM 400-ZERO-OUT.
074400     PERFORM 020-HOLD.
074500     GO TO 070-EDIT-PASTURE.
074600 235-MAP.
074700     IF MAP-SRC-IN = MAP-SRC-HOLD
074800         GO TO 240-MERIDIAN.
074900     MOVE 1 TO PAGE-SW.
075000     PERFORM 400-ZERO-OUT.
075100     PERFORM 020-HOLD.
075200     GO TO 075-MAP-SRC.
075300 240-MERIDIAN.
075400     IF MTR-MER-CD-IN = MTR-MER-CD-HOLD
075500         GO TO 245-CONTROL-EQUAL.
075600     MOVE 1 TO PAGE-SW.
075700     PERFORM 400-ZERO-OUT.
075800     PERFORM 020-HOLD.
075900     GO TO 082-CHK-AD-ST-IN.
```

```

076000 245-CONTROL-EQUAL.
076100     MOVE SPACES TO PRINT-4.
076200     MOVE ZERO TO HDR-SW2.
076300     PERFORM 082-CHK-AD-ST-IN THRU 165-EXIT-EDIT.
076400     IF OWN-TYP = "TOTL"
076500         PERFORM 400-ZERO-OUT
076600         GO TO 195-READ-VA1K.
076700     IF HDR-SW1 NOT = TO ZERO
076800         GO TO 246-PAGE.
076900     IF HDR-SW2 = ZERO
077000         GO TO 185-NEW-RCD.
077100 246-PAGE.
077200     IF PAGE-SW = ZERO
077300         GO TO 250-CONTINUE.
077400     MOVE ZERO TO PAGE-SW.
077500     PERFORM 410-HDR-ST-DIST THRU 430-MOVE-CTL-DATA.
077600     IF HDR-SW1 = ZERO
077700         MOVE SPACES TO PRINT-RCD
077800         ELSE
077900         MOVE PRINT-2 TO PRINT-RCD
078000         MOVE 1 TO ERROR-SW.
078100     WRITE PRINT-RCD BEFORE 2.
078200     ADD 2 TO LINE-CNT.
078300     PERFORM 440-HDRS-LIN-DATA.
078400 250-CONTINUE.
078500     PERFORM 450-LIN-DATA.
078600     IF HDR-SW2 = ZERO
078700         MOVE SPACES TO PRINT-RCD
078800         ELSE
078900         MOVE PRINT-4 TO PRINT-RCD
079000         MOVE 1 TO ERROR-SW.
079100     MOVE 0 TO HDR-SW2.
079200     WRITE PRINT-RCD BEFORE 2.
079300     ADD 2 TO LINE-CNT.
079400     IF LINE-CNT > 54
079500         MOVE 1 TO PAGE-SW.
079600     GO TO 185-NEW-RCD.
079700 260-END.
079800     IF ERROR-SW = 1
079900         MOVE ERR-CNT TO CNT-ERRS, DISPLAY ERR-LINE
080000     ELSE DISPLAY " NO ERRORS DETECTED".
080100     CLOSE PRINT-FILE, VA1K-IN, VA1Z-OUT.
080200     FINISH DIC-DE, STOP RUN.
080300 400-ZERO-OUT.
080400     MOVE ZERO TO HDR-SW1, HDR-SW2.
080500     MOVE SPACES TO PRINT-2, PRINT-4.
080600 410-HDR-ST-DIST.
080700     PERFORM 460-LINE-CNT.
080800     MOVE HDR-1 TO PRINT-RCD.
080900     WRITE PRINT-RCD BEFORE 2.
081000     MOVE HDR-2 TO PRINT-RCD.
081100     WRITE PRINT-RCD BEFORE 2.
081200     MOVE INFO-LIN-1 TO PRINT-RCD.
081300     WRITE PRINT-RCD BEFORE 1.
081400     MOVE INFO-LIN-2 TO PRINT-RCD.
081500     WRITE PRINT-RCD BEFORE 2.
081600     ADD 7 TO LINE-CNT.

```



081700 420-HDRS-CNTL.  
081800 MOVE HDR-3 TO PRINT-RCD.  
081900 WRITE PRINT-RCD BEFORE 1.  
082000 MOVE HDR-4 TO PRINT-RCD.  
082100 WRITE PRINT-RCD BEFORE 1.  
082200 MOVE HDR-5 TO PRINT-RCD.  
082300 WRITE PRINT-RCD BEFORE 2.  
082400 ADD 4 TO LINE-CNT.  
082500 430-MOVE-CTL-DATA.  
082600 MOVE DIC-VALD TO REC-TYP-P.  
082700 MOVE AD-ST-IN TO AD-ST-P.  
082800 MOVE BLM-ADM-DIST TO BLM-ADM-DIST-P.  
082900 MOVE BLM-ADM-RA TO BLM-ADM-RA-P.  
083000 MOVE BLM-ADM-PLU TO BLM-ADM-PLU-P.  
083100 MOVE DATA-DATE TO DATA-DATE-P.  
083200 MOVE ALLOT-NUM TO ALLOT-NUM-P.  
083300 MOVE PASTURE-NUM TO PASTURE-NUM-P.  
083400 MOVE ACTN-CD TO ACTN-CD-P.  
083500 MOVE MAP-SRC-IN TO MAP-SOURCE-P.  
083600 MOVE MTR-MER-CD-IN TO MERIDIAN-P.  
083700 MOVE PRINT-1 TO PRINT-RCD.  
083800 WRITE PRINT-RCD BEFORE 1.  
083900 ADD 1 TO LINE-CNT.  
084000 440-HDRS-LIN-DATA.  
084100 MOVE HDR-6 TO PRINT-RCD.  
084200 WRITE PRINT-RCD BEFORE 1.  
084300 MOVE HDR-7 TO PRINT-RCD.  
084400 WRITE PRINT-RCD BEFORE 1.  
084500 MOVE HDR-8 TO PRINT-RCD.  
084600 WRITE PRINT-RCD BEFORE 2.  
084700 ADD 4 TO LINE-CNT.  
084800 450-LIN-DATA.  
084900 MOVE LIN-NUM TO LIN-NUM-P.  
085000 MOVE TOWNSHIP-3 TO TOWNSHIP-P.  
085100 MOVE TOWNSHIP-2 TO TOWNSHIP-P1.  
085200 MOVE RNGE-3 TO RNGE-P.  
085300 MOVE RNGE-2 TO RNGE-P1.  
085400 MOVE SEC-SECT-IN TO SECT-P.  
085500 MOVE SWA TO SWA-P.  
085600 MOVE ALIQ-1 (1) TO NE-P.  
085700 MOVE ALIQ-2 (1) TO NE-P1.  
085800 MOVE ALIQ-3 (1) TO NE-P2.  
085900 MOVE ALIQ-4 (1) TO NE-P3.  
086000 MOVE ALIQ-1 (2) TO NW-P.  
086100 MOVE ALIQ-2 (2) TO NW-P1.  
086200 MOVE ALIQ-3 (2) TO NW-P2.  
086300 MOVE ALIQ-4 (2) TO NW-P3.  
086400 MOVE ALIQ-1 (3) TO SW-P.  
086500 MOVE ALIQ-2 (3) TO SW-P1.  
086600 MOVE ALIQ-3 (3) TO SW-P2.  
086700 MOVE ALIQ-4 (3) TO SW-P3.  
086800 MOVE ALIQ-1 (4) TO SE-P.  
086900 MOVE ALIQ-2 (4) TO SE-P1.  
087000 MOVE ALIQ-3 (4) TO SE-P2.  
087100 MOVE ALIQ-4 (4) TO SE-P3.  
087200 MOVE ACR-DU-OWNR TO ACRES-P.  
087300 MOVE OWN-TYP TO SURF-OWN-P.

```

087400     MOVE JURIS TO JURIS-P.
087500     MOVE MGT-ADM TO ADMIN-P.
087600     MOVE LAND-TYP TO LAND-TYP-P.
087700     MOVE PRINT-3 TO PRINT-RCD.
087800     ADD 1 TO ERR-CNT.
087900     WRITE PRINT-RCD BEFORE 1.
088000     ADD 1 TO LINE-CNT.
088100     460-LINE-CNT.
088200     MOVE SPACES TO PRINT-RCD.
088300     WRITE PRINT-RCD BEFORE PAGE.
088400     MOVE ZERO TO LINE-CNT.
088500     MOVE 0 TO PAGE-SW.
088600     ADD 1 TO PAGE-NO.
088700     MOVE PAGE-NO TO PAGE-CNT.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES230M.
000300*       VA SUMMARY
000400*
000500 AUTHOR. CHUCK SLIZEWSKI.
000600 DATE-WRITTEN. 01/10/79.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400     SELECT FIL-D1      ASSIGN TO D1
001500     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600     SELECT FIL-I1      ASSIGN TO I1
001700     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800     SELECT FIL-W1      ASSIGN TO W1
001900     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000 DATA DIVISION.
002100 FILE SECTION.
002200 FD  FIL-D1
002300     LABEL RECORDS ARE STANDARD
002400     CODE-SET IS GBCD
002500     DATA RECORD IS REC-D1.
002600 01  REC-D1.
002700     03  FILLER  PIC XXXX.
002800     03  STATE-THRU-PAST-D1  PIC X(14).
002900     03  FILLER  PIC X(11).
003000     03  MERID-D1  PIC XX.
003100     03  FILLER  PIC XXXX.
003200     03  TN-RG-SEC-D1  PIC X(13).
003300     03  SWA-D1  PIC XXXX.
003400     03  FILLER  PIC X(16).
003500     03  ACRES-D1  PIC 9(5).
003600     03  OWNER-D1  PIC X(16).
003700     03  FILLER  PIC X.
003800 FD  FIL-I1
003900     LABEL RECORDS ARE STANDARD
004000     CODE-SET IS GBCD
004100     DATA RECORD IS REC-I1.
004200 01  REC-I1  PIC X(90).

```

```

004300 SD   FIL-W1
004400      DATA RECORD IS REC-W1.
004500 01   REC-W1.
004600      03   FILLER   PIC XXXX.
004700      03   STATE-THRU-PAST-W1   PIC X(14).
004800      03   FILLER   PIC X(11).
004900      03   MERID-W1   PIC XX.
005000      03   FILLER   PIC XXXX.
005100      03   TN-RG-SEC-W1   PIC X(13).
005200      03   SWA-W1   PIC XXXX.
005300      03   FILLER   PIC X(16).
005400      03   ACRES-W1   PIC 9(5).
005500      03   OWNER-W1   PIC X(16).
005600      03   FILLER   PIC X.
005700 WORKING-STORAGE SECTION.
005800 77   AD-CNTR   PIC 9(5)   COMP-4   VALUE ZERO.
005900 77   IN-CNTR   PIC 9(5)   COMP-4   VALUE ZERO.
006000 77   OT-CNTR   PIC 9(5)   COMP-4   VALUE 1.
006100 PROCEDURE DIVISION.
006200 SS SECTION.
006300 SSP.
006400      SORT FIL-W1 ON ASCENDING KEY STATE-THRU-PAST-W1,
006500                                SWA-W1,
006600                                MERID-W1,
006700                                TN-RG-SEC-W1,
006800                                OWNER-W1,
006900      INPUT PROCEDURE IS IN-PROC,
007000      OUTPUT PROCEDURE IS OT-PROC.
007100 IN-PROC SECTION.
007200 IPP.
007300      OPEN INPUT   FIL-I1.
007400 0100-READ.
007500      READ FIL-I1 AT END GO TO 0200-CLOS.
007600      MOVE REC-I1 TO REC-W1.  RELEASE REC-W1.
007700      ADD 1 TO IN-CNTR.  GO TO 0100-READ.
007800 0200-CLOS.
007900      CLOSE FIL-I1.
008000 OT-PROC SECTION.
008100 OPP.
008200      OPEN OUTPUT FIL-D1.
008300      RETURN FIL-W1 AT END
008400      DISPLAY "NO RECORDS ON SORT FILE"  CALL "ABOR".
008500      MOVE REC-W1 TO REC-D1.
008600 0300-READ.
008700      RETURN FIL-W1 AT END WRITE REC-D1
008800      DISPLAY "RECORDS IN      = " IN-CNTR
008900      DISPLAY "RECORDS ADDED = " AD-CNTR
009000      DISPLAY "RECORDS OUT   = " OT-CNTR
009100      CLOSE FIL-D1  STOP RUN.
009200      IF STATE-THRU-PAST-D1 = STATE-THRU-PAST-W1
009300      AND MERID-D1 = MERID-W1
009400      AND TN-RG-SEC-D1 = TN-RG-SEC-W1
009500      AND SWA-D1 = SWA-W1
009600      AND OWNER-D1 = OWNER-W1
009700      ADD ACRES-W1 TO ACRES-D1
009800      ADD 1 TO AD-CNTR  GO TO 0300-READ.
009900      WRITE REC-D1.  ADD 1 TO OT-CNTR.

```

```

010000      MOVE REC-W1 TO REC-D1.  GO TO 0300-READ.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES305M.
000300*      CONVERTS NEW FORMAT VB RECORDS TO OLD FORMAT VB (D) RECOR
000400*
000500 AUTHOR. GEORGIA BOSSE.
000600 INSTALLATION.          BLM.
000700 DATE-WRITTEN.        DECEMBER 1982.
000800*REMARKS.          VB CONVERSION-D
000900*      THE INPUT FILES ARE THE KEY ENTERED VB AND VC RECORDS.
001000*      VB = BLM FORM 4412-30 (APRIL 1982)
001100*      VC = BLM FORM 4412-37 (APRIL 1982)
001200*      THE OUTPUT IS FORMATTED LIKE THE KEY ENTERED VB1D RECORDS
001300*      VB1D = BLM FORM 4412-30 (JUNE 79)
001400*      THE PROGRAM SORTS THE VC FILE BY STRATUM INTO A TEMPORARY
001500*      AND THEN SORTS THE VB FILE BY STRATUM.  THE FILES ARE MAT
001600*      ON STRATUM AND ALL VB RECORDS FOR WHICH THERE IS A MATCHI
001700*      VC RECORD ARE REFORMATTED INTO THE VB1D FILE.  IF NO MATC
001800*      VC RECORD IS FOUND AN ERROR MESSAGE IS PRINTED AND THE PR
001900*      READS THE NEXT VB RECORD.  IF THE PROGRAM REACHES THE END
002000*      OF THE VC FILE WITHOUT MATCHING THE VB STRATUM OR FINDING
002100*      HIGHER STRATUM THE PROGRAM PRINTS A MESSAGE AND TERMINATE
002200 ENVIRONMENT DIVISION.
002300 CONFIGURATION SECTION.
002400 SOURCE-COMPUTER.        LEVEL-66-ASCII.
002500 OBJECT-COMPUTER.        LEVEL-66-ASCII SEQUENCE IS EBCDIC.
002600 INPUT-OUTPUT SECTION.
002700 FILE-CONTROL.
002800      SELECT VB1D-FILE ASSIGN D1
002900      ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
003000      SELECT VC-FILE ASSIGN I1
003100      ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
003200      SELECT VB-FILE ASSIGN I2
003300      ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
003400      SELECT VC-SORT-OUT-FILE ASSIGN DZ.
003500      SELECT VC-SORT-FILE ASSIGN ASORT.
003600      SELECT VB-SORT-FILE ASSIGN BSORT.
003700 DATA DIVISION.
003800 FILE SECTION.
003900 FD  VC-FILE
004000      CODE-SET IS GBCD
004100      LABEL RECORDS ARE STANDARD
004200      DATA RECORD IS VC-REC.
004300 01  VC-REC.
004400      03  PG-NUM-I1          PIC 9999.
004500      03  INV-CD-I1         PIC XXXX.
004600      03  REC-TYP-I1        PIC XXX.
004700      03  LINE-NUM-I1       PIC XX.
004800      03  ACT-I1            PIC X.
004900      03  RS-NUM-I1         PIC X(11).
005000      03  STRAT-I1         PIC X(4).
005100      03  COND-CL-I1        PIC X.
005200      03  COND-CL-FIL       PIC XXX.
005300      03  VEG-SUB-TYP-I1    PIC X(4).
005400      03  DOMINANT-PLNT-I1  PIC X(21).
005500      03  FILLER           PIC X(26).

```

005600 FD VB-FILE  
005700 CODE-SET IS GBCD  
005800 LABEL RECORDS ARE STANDARD  
005900 DATA RECORD IS VB-REC.  
006000 01 VB-REC.  
006100 03 PG-I2 PIC X(4).  
006200 03 INV-CD-I2 PIC X(4).  
006300 03 REC-TYP-I2 PIC XXX.  
006400 03 RA-I2 PIC XX.  
006500 03 PU-I2 PIC XX.  
006600 03 ALLOT-I2 PIC X(4).  
006700 03 PASTR-I2 PIC XX.  
006800 03 LINE-NUM-I2 PIC XX.  
006900 03 ACT-I2 PIC X.  
007000 03 SWA-I2 PIC X(4).  
007100 03 TRN-I2 PIC XX.  
007200 03 PCT-SWA-I2 PIC XXX.  
007300 03 STRAT-I2 PIC X(4).  
007400 03 CLMTC-ADJ-FCTR-I2 PIC X(5).  
007500 03 ELEV-I2 PIC X(5).  
007600 03 PCT-SLP-I2 PIC XXX.  
007700 03 SLP-ASPT-I2 PIC XX.  
007800 03 LND-FRM-I2 PIC XXX.  
007900 03 SOIL-PHS-I2 PIC X(6).  
008000 03 FILLER PIC X(23).  
008100 FD VB1D-FILE  
008200 CODE-SET IS GBCD  
008300 LABEL RECORDS ARE STANDARD  
008400 DATA RECORD IS VB1D-REC.  
008500 01 VB1D-REC.  
008600 03 REC-TYPE-D1 PIC X(4).  
008700 03 STATE-DIST-D1 PIC X(4).  
008800 03 RA-D1 PIC XX.  
008900 03 PU-D1 PIC XX.  
009000 03 CLMTC-ADJ-FCTR-D1 PIC X(5).  
009100 03 DATE-D1 PIC X(6).  
009200 03 ACT-D1 PIC X.  
009300 03 LINE-NUM-D1 PIC X(4).  
009400 03 SWA-D1 PIC X(4).  
009500 03 TRN-D1 PIC XX.  
009600 03 PCT-SWA-D1 PIC XXX.  
009700 03 RS-NUM-D1 PIC X(11).  
009800 03 STRAT-D1 PIC X(4).  
009900 03 ALLOT-D1 PIC X(4).  
010000 03 PASTR-D1 PIC XX.  
010100 03 VEG-SUB-TYP-D1 PIC X(4).  
010200 03 COND-CL-D1 PIC X.  
010300 03 PCT-SLP-D1 PIC XXX.  
010400 03 SLP-ASPT-D1 PIC XX.  
010500 03 LND-FRM-D1 PIC XXX.  
010600 03 SOIL-PHS-D1 PIC X(6).  
010700 03 FILLER PIC X(19).  
010800 FD VC-SORT-OUT-FILE  
010900 LABEL RECORDS ARE STANDARD  
011000 DATA RECORD IS VC-SORT-OUT.  
011100 01 VC-SORT-OUT.  
011200 03 PG-NUM-SVC PIC 9999.

011300	03	INV-CD-SVC	PIC XXXX.
011400	03	REC-TYP-SVC	PIC XXX.
011500	03	LINE-NUM-SVC	PIC XX.
011600	03	ACT-SVC	PIC X.
011700	03	RS-NUM-SVC	PIC X(11).
011800	03	STRAT-SVC	PIC X(4).
011900	03	COND-CL-SVC	PIC X(4).
012000	03	VEG-SUB-TYP-SVC	PIC X(4).
012100	03	DOMINANT-PLNT-SVC	PIC X(21).
012200	03	FILLER	PIC X(26).
012300	SD	VC-SORT-FILE	
012400		DATA RECORD IS VC-SORT-REC.	
012500	01	VC-SORT-REC.	
012600	03	FILLER	PIC X(25).
012700	03	STRAT-IS-KEY	PIC X(4).
012800	03	FILLER	PIC X(55).
012900	SD	VB-SORT-FILE	
013000		DATA RECORD IS VB-SORT-REC.	
013100	01	VB-SORT-REC.	
013200	03	PG-SVB	PIC X(4).
013300	03	INV-SVB	PIC X(4).
013400	03	REC-TYP-SVB	PIC XXX.
013500	03	RA-SVB	PIC XX.
013600	03	PU-SVB	PIC XX.
013700	03	ALLOT-SVB	PIC X(4).
013800	03	PASTR-SVB	PIC XX.
013900	03	LINE-NUM-SVB	PIC XX.
014000	03	ACT-SVB	PIC X.
014100	03	SWA-SVB	PIC X(4).
014200	03	TRN-SVB	PIC XX.
014300	03	PCT-SWA-SVB	PIC XXX.
014400	03	STRAT-SVB	PIC X(4).
014500	03	CLMTC-ADJ-FCTR-SVB	PIC X(5).
014600	03	ELEV-SVB	PIC X(5).
014700	03	PCT-SLP-SVB	PIC XXX.
014800	03	SLP-ASPT-SVB	PIC XX.
014900	03	LND-FRM-SVB	PIC XXX.
015000	03	SOIL-PHS-SVB	PIC X(6).
015100	03	FILLER	PIC X(23).
015200		WORKING-STORAGE SECTION.	
015300	77	ERR-CNT	PIC 9 VALUE ZERO.
015400	77	VB1D-CNT	PIC 99999 VALUE ZERO.
015500	77	TODAYS-DATE	PIC X(06).
015600	01	INV-ST-DIST.	
015700	03	INVENTORY	PIC XXXX.
015800	03	STATE-DIST	PIC X(4).
015900		PROCEDURE DIVISION.	
016000	A100	HOUSE SECTION.	
016100	A100	HOUSEKEEPING.	
016200		ACCEPT TODAYS-DATE FROM DATE.	
016300		ACCEPT INV-ST-DIST.	
016400	B200	SORT-VC SECTION.	
016500	B210	SORT-VC.	
016600		SORT VC-SORT-FILE ON ASCENDING KEY	
016700		STRAT-IS-KEY	
016800		INPUT PROCEDURE IS C300-INPUT-VC	
016900		GIVING VC-SORT-OUT-FILE.	

```

017000 B250-SORT-VB SECTION.
017100 B260-SORT-VB.
017200     CLOSE VC-FILE.
017300     SORT VB-SORT-FILE ON ASCENDING KEY
017400     STRAT-SVB
017500     INPUT PROCEDURE IS D400-INPUT-VB
017600     OUTPUT PROCEDURE IS E600-OUTPUT.
017700 B290-STOP.
017800     CLOSE VC-SORT-OUT-FILE.
017900     DISPLAY " OUTPUT RECORDS=" VB1D-CNT
018000     STOP RUN.
018100 C300-INPUT-VC SECTION.
018200 C310-OPEN.
018300     MOVE ZERO TO ERR-CNT.
018400     OPEN INPUT VC-FILE.
018500 C320-READ-VC-FILE.
018600     READ VC-FILE AT END
018700     GO TO C300-EXIT.
018800     IF REC-TYP-I1 NOT = "VC "
018900         ADD 1 TO ERR-CNT
019000         DISPLAY " INVALID REC-TYP " VC-REC
019100         IF ERR-CNT = 5
019200             DISPLAY " CHECK COMPLETE FILE - ABORT - "
019300             STOP RUN
019400             ELSE
019500             GO TO C320-READ-VC-FILE.
019600     IF INVENTORY NOT = INV-CD-I1
019700         DISPLAY " INVENTORY UNMATCHED WITH VC-REC"
019800         DISPLAY " INVENTORY REQUESTED= " INVENTORY
019900         DISPLAY "THIS FILE IS " INV-CD-I1
020000     STOP RUN.
020100     MOVE VC-REC TO VC-SORT-REC.
020200     RELEASE VC-SORT-REC.
020300     GO TO C320-READ-VC-FILE.
020400 C300-EXIT.
020500     EXIT.
020600 D400-INPUT-VB SECTION.
020700 D410-OPEN.
020800     MOVE ZERO TO ERR-CNT.
020900     OPEN INPUT VB-FILE.
021000 D420-READ-VB-FILE.
021100     READ VB-FILE AT END
021200     GO TO D400-EXIT.
021300     IF REC-TYP-I2 NOT = "VB "
021400         ADD 1 TO ERR-CNT
021500         DISPLAY " INVBLID REC-TYP " VC-REC
021600         IF ERR-CNT = 5
021700             DISPLAY " CHECK COMPLETE FILE - ABORT - "
021800             STOP RUN
021900             ELSE
022000             GO TO D420-READ-VB-FILE.
022100     IF INVENTORY NOT = INV-CD-I2
022200         DISPLAY " INVENTORY UNMATCHED WITH VB-REC"
022300         DISPLAY " INVENTORY REQUESTED= " INVENTORY
022400         DISPLAY "THIS FILE IS " INV-CD-I2
022500         STOP RUN.
022600     MOVE VB-REC TO VB-SORT-REC.

```

```

022700     RELEASE VB-SORT-REC.
022800     GO TO D420-READ-VB-FILE.
022900 D400-EXIT.
023000     EXIT.
023100 E600-OUTPUT SECTION.
023200 E610-OPEN.
023300     OPEN INPUT VC-SORT-OUT-FILE.
023400     MOVE SPACES TO VB1D-REC.
023500     OPEN OUTPUT VB1D-FILE.
023600     CLOSE VB-FILE.
023700     READ VC-SORT-OUT-FILE AT END
023800         DISPLAY "VB SORT FILE ERROR"
023900         STOP RUN.
024000 E620-RETURN.
024100     RETURN VB-SORT-FILE AT END
024200         GO TO E600-EXIT.
024300     IF STRAT-SVB > STRAT-SVC
024400         PERFORM E680-FIND-MATCH.
024500     IF STRAT-SVB < STRAT-SVC
024600         DISPLAY "STRATUM #" STRAT-SVB
024700         " ON THE VB FILE HAS NO MATCHING STRATUM ON THE VC FILE"
024800         GO TO E620-RETURN.
024900* MOVE STANDARD FILE DATA
025000     MOVE STATE-DIST TO STATE-DIST-D1.
025100     MOVE "A" TO ACT-D1.
025200     MOVE TODAYS-DATE TO DATE-D1.
025300     MOVE "VB1D" TO REC-TYPE-D1.
025400     MOVE ZEROES TO LINE-NUM-D1.
025500* MOVE DATA FROM VB-RECORD
025600     MOVE SWA-SVB TO SWA-D1.
025700     MOVE RA-SVB TO RA-D1.
025800     MOVE PU-SVB TO PU-D1.
025900     MOVE ALLOT-SVB TO ALLOT-D1.
026000     MOVE PASTR-SVB TO PASTR-D1.
026100     MOVE TRN-SVB TO TRN-D1.
026200     MOVE PCT-SWA-SVB TO PCT-SWA-D1.
026300     MOVE STRAT-SVB TO STRAT-D1.
026400     MOVE CLMTC-ADJ-FCTR-SVB TO CLMTC-ADJ-FCTR-D1.
026500     MOVE PCT-SLP-SVB TO PCT-SLP-D1.
026600     MOVE SLP-ASPT-SVB TO SLP-ASPT-D1.
026700     MOVE LND-FRM-SVB TO LND-FRM-D1.
026800     MOVE SOIL-PHS-SVB TO SOIL-PHS-D1.
026900* MOVE DATA FROM VC-RECORD
027000     MOVE RS-NUM-SVC TO RS-NUM-D1.
027100     MOVE COND-CL-SVC TO COND-CL-D1.
027200     MOVE VEG-SUB-TYP-SVC TO VEG-SUB-TYP-D1.
027300     WRITE VB1D-REC.
027400     MOVE SPACES TO VB1D-REC.
027500     ADD 1 TO VB1D-CNT.
027600     GO TO E620-RETURN.
027700 E680-FIND-MATCH.
027800     READ VC-SORT-OUT-FILE AT END
027900         DISPLAY "CURRENT VB FILE IS AT STRATUM #" STRAT-SVB
028000         DISPLAY "THERE ARE NO MORE STRATA ON THE VC FILE"
028100         GO TO E600-EXIT.
028200     IF STRAT-SVB > STRAT-SVC
028300         GO TO E680-FIND-MATCH.

```



```

028400 E600-EXIT.
028500     EXIT.
028600 DUMMY SECTION.
028700 D900-END.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES310U.
000300*     INITIAL EDIT/UPDATE OF STRATIFICATION (VB) AND
000400*     ECOLOGICAL SITE (VR) FORMATS.
000500*
000600 AUTHOR. CARLANDER.
000700 INSTALLATION.           BLM.
000800 DATE-WRITTEN.           AUGUST 1979.
000900*REMARKS.                ERROR UPDATE OF STRATUM AND
001000*                        ECOLOGICAL SITE DESCRIPTION.
001100*
001200 ENVIRONMENT DIVISION.
001300 CONFIGURATION SECTION.
001400 SOURCE-COMPUTER.         LEVEL-66-ASCII.
001500 OBJECT-COMPUTER.         LEVEL-66-ASCII SEQUENCE IS EBCDIC.
001600 INPUT-OUTPUT SECTION.
001700 FILE-CONTROL.
001800     SELECT NEW-FILE ASSIGN D1
001900     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000     SELECT TRAN-FILE ASSIGN I1
002100     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002200     SELECT OPTIONAL PREV-FILE ASSIGN I2
002300     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002400     SELECT SORT-FILE ASSIGN I1 I2 I3.
002500 DATA DIVISION.
002600 FILE SECTION.
002700 FD  PREV-FILE
002800     CODE-SET IS GBCD
002900     LABEL RECORDS ARE STANDARD
003000     DATA RECORDS ARE VB1X-RCD VR1X-RCD VR2X-RCD VR3X-RCD.
003100 01  VB1X-RCD.
003200     02  REC-TYP-VB1X           PIC X(02).
003300     02  FMT-NUM-VB1X          PIC X(01).
003400     02  FMT-CD-VB1X           PIC X(01).
003500     02  SDRP-VB1X.
003600     03  BLM-ADM-U-ST-VB1X     PIC X(02).
003700     03  BLM-ADM-U-DIST-VB1X  PIC X(02).
003800     03  BLM-ADM-U-RA-VB1X    PIC X(02).
003900     03  BLM-ADM-U-PLU-VB1X   PIC X(02).
004000     02  CLMTC-ADJ-FCTR-VB1X  PIC X(05).
004100     02  DATA-DATE-VB1X      PIC X(06).
004200     02  ACTN-CD-VB1X         PIC X(01).
004300     02  LIN-NUM-VB1X         PIC X(04).
004400     02  SWA-VB1X             PIC X(04).
004500     02  TRN-NUM-VB1X        PIC X(02).
004600     02  SWA-PCT-VB1X        PIC X(03).
004700     02  RNG-SITE-ID-VB1X     PIC X(11).
004800     02  STRATUM-NUM-VB1X     PIC X(04).
004900     02  ALLOT-NUM-VB1X      PIC X(04).
005000     02  PASTURE-NUM-VB1X    PIC X(02).
005100     02  VEG-SUB-TYP-VB1X    PIC X(04).
005200     02  RNG-ECOL-COND-CLS-VB1X PIC X(01).

```

005300	02	PCT-SPL-VB1X	PIC X(03).
005400	02	ASPT-VB1X	PIC X(02).
005500	02	L-FORM-VB1X	PIC X(03).
005600	02	SOIL-PHAS-VB1X	PIC X(05).
005700	02	FIL	PIC X(20).
005800	01	VR1X-RCD.	
005900	02	VR1X-CTL.	
006000	03	REC-TYP-VR1X	PIC X(02).
006100	03	FMT-NUM-CD-VR1X.	
006200	05	FMT-NUM-VR1X	PIC X(01).
006300	05	FMT-CD-VR1X	PIC X(01).
006400	03	BLM-ADM-U-ST-VR1X	PIC X(02).
006500	02	FIL	PIC X(06).
006600	02	DATA-DATE-VR1X	PIC X(06).
006700	02	ACTN-CD-VR1X	PIC X(01).
006800	02	RNG-SITE-ID-VR1X	PIC X(11).
006900	02	LIN-NUM-VR1X	PIC X(04).
007000	02	RNG-SITE-NAM-VR1X	PIC X(08).
007100	02	PRECIP-ZONE-VR1X	PIC X(04).
007200	02	SSF-VAL-AVG-VR1X	PIC X(03).
007300	02	POTN-PPA-RS-GRP-VR1X.	
007400	03	POTN-PPA-RS-VR1X OCCURS 3 TIMES	
007500			PIC X(06).
007600	02	FIL	PIC X(29).
007700	01	VR2X-RCD.	
007800	02	VR2X-CTL.	
007900	03	REC-TYP-VR2X	PIC X(02).
008000	03	FMT-NUM-CD-VR2X.	
008100	05	FMT-NUM-VR2X	PIC X(01).
008200	05	FMT-CD-VR2X	PIC X(01).
008300	03	BLM-ADM-U-ST-VR2X	PIC X(02).
008400	02	FIL	PIC X(06).
008500	02	DATA-DATE-VR2X	PIC X(06).
008600	02	ACTN-CD-VR2X	PIC X(01).
008700	02	RNG-SITE-ID-VR2X	PIC X(11).
008800	02	LIN-NUM-VR2X	PIC X(04).
008900	02	PLANT-POTN-VR2X OCCURS 4 TIMES.	
009000	03	PLANT-CD-VR2X	PIC X(07).
009100	03	POTN-PPA-RS-PCT-VR2X	PIC X(03).
009200	02	PLANT-TYP-VR2X	PIC X(01) OCCURS 4 TIMES.
009300	02	FIL	PIC X(18).
009400	01	VR3X-RCD.	
009500	02	VR3X-CTL.	
009600	03	REC-TYP-VR3X	PIC X(02).
009700	03	FMT-NUM-VR3X	PIC X(01).
009800	03	FMT-CD-VR3X	PIC X(01).
009900	03	BLM-ADM-U-ST-VR3X	PIC X(02).
010000	02	FIL	PIC X(06).
010100	02	DATA-DATE-VR3X	PIC X(06).
010200	02	ACTN-CD-VR3X	PIC X(01).
010300	02	RNG-SITE-ID-VR3X	PIC X(11).
010400	02	LIN-NUM-VR3X	PIC X(04).
010500	02	SP-SN-VR3X OCCURS 2 TIMES.	
010600	03	SOIL-PHAS-VR3X	PIC X(05).
010700	03	SOIL-NAM-VR3X	PIC X(24).
010800	02	FIL	PIC X(04).
010900	FD	TRAN-FILE	

011000 CODE-SET IS GBCD  
011100 LABEL RECORDS ARE STANDARD  
011200 DATA RECORDS ARE REC-VB-TF REC-VR-TF.  
011300 01 REC-VB-TF.  
011400 03 REC-TYP-VB-TF PIC XX.  
011500 03 FMT-NUM-CD-VB-TF PIC XX.  
011600 03 ST-VB-TF PIC XX.  
011700 03 DS-VB-TF PIC XX.  
011800 03 RA-VB-TF PIC XX.  
011900 03 PU-VB-TF PIC XX.  
012000 03 CAF-VB-TF PIC X(5).  
012100 03 FILLER PIC X(6).  
012200 03 ACTN-VB-TF PIC X.  
012300 03 LINE-VB-TF PIC XXXX.  
012400 03 SWAT-VB-TF PIC X(6).  
012500 03 SWA-PCT-VB-TF PIC XXX.  
012600 03 RNG-SITE-VB-TF PIC X(11).  
012700 03 STRATUM-VB-TF PIC XXXX.  
012800 03 ALOT-VB-TF PIC XXXX.  
012900 03 PAST-VB-TF PIC XX.  
013000 03 FILLER PIC X(38).  
013100 01 REC-VR-TF.  
013200 03 FILLER PIC X(18).  
013300 03 ACTN-VR-TF PIC X.  
013400 03 RNG-SITE-VR-TF PIC X(11).  
013500 03 LINE-VR-TF PIC XXXX.  
013600 03 FILLER PIC X(62).  
013700 FD NEW-FILE  
013800 CODE-SET IS GBCD  
013900 LABEL RECORDS ARE STANDARD  
014000 DATA RECORDS ARE VB1Z-RCD VR1Z-RCD VR2Z-RCD VR3Z-RCD.  
014100 01 VB1Z-RCD.  
014200 02 REC-TYP-VB1Z PIC X(02).  
014300 02 FMT-NUM-CD-VB1Z.  
014400 03 FMT-NUM-VB1Z PIC X(01).  
014500 03 FMT-CD-VB1Z PIC X(01).  
014600 02 SDRP-VB1Z.  
014700 03 BLM-ADM-U-ST-VB1Z PIC X(02).  
014800 03 BLM-ADM-U-DIST-VB1Z PIC X(02).  
014900 03 BLM-ADM-U-RA-VB1Z PIC X(02).  
015000 03 BLM-ADM-U-PLU-VB1Z PIC X(02).  
015100 02 CLMTC-ADJ-FCTR-VB1Z PIC X(05).  
015200 02 DATA-DATE-VB1Z PIC X(06).  
015300 02 ACTN-CD-VB1Z PIC X(01).  
015400 02 LIN-NUM-VB1Z PIC X(04).  
015500 02 SWA-VB1Z PIC X(04).  
015600 02 TRN-NUM-VB1Z PIC X(02).  
015700 02 SWA-PCT-VB1Z PIC X(03).  
015800 02 RNG-SITE-ID-VB1Z PIC X(11).  
015900 02 STRATUM-NUM-VB1Z PIC X(04).  
016000 02 ALLOT-NUM-VB1Z PIC X(04).  
016100 02 PASTURE-NUM-VB1Z PIC X(02).  
016200 02 VEG-SUB-TYP-VB1Z PIC X(04).  
016300 02 RNG-ECOL-COND-CLS-VB1Z PIC X(01).  
016400 02 PCT-SPL-VB1Z PIC X(03).  
016500 02 ASPT-VB1Z PIC X(02).  
016600 02 L-FORM-VB1Z PIC X(03).

016700	02	SOIL-PHAS-VB1Z	PIC X(05).
016800	02	FIL	PIC X(20).
016900	01	VR1Z-RCD.	
017000	02	VR1Z-CTL.	
017100	03	REC-TYP-VR1Z	PIC X(02).
017200	03	FMT-NUM-VR1Z	PIC X(01).
017300	03	FMT-CD-VR1Z	PIC X(01).
017400	03	BLM-ADM-U-ST-VR1Z	PIC X(02).
017500	02	FIL	PIC X(06).
017600	02	DATA-DATE-VR1Z	PIC X(06).
017700	02	ACTN-CD-VR1Z	PIC X(01).
017800	02	RNG-SITE-ID-VR1Z	PIC X(11).
017900	02	LIN-NUM-VR1Z	PIC X(04).
018000	02	RNG-SITE-NAM-VR1Z	PIC X(08).
018100	02	PRECIP-ZONE-VR1Z	PIC X(04).
018200	02	SSF-VAL-AVG-VR1Z	PIC X(03).
018300	02	POTN-PPA-RS-GRP-VR1Z.	
018400	03	POTN-PPA-RS-VR1Z OCCURS 3 TIMES	
018500			PIC X(06).
018600	02	FIL	PIC X(29).
018700	01	VR2Z-RCD.	
018800	02	VR2Z-CTL.	
018900	03	REC-TYP-VR2Z	PIC X(02).
019000	03	FMT-NUM-VR2Z	PIC X(01).
019100	03	FMT-CD-VR2Z	PIC X(01).
019200	03	BLM-ADM-U-ST-VR2Z	PIC X(02).
019300	02	FIL	PIC X(06).
019400	02	DATA-DATE-VR2Z	PIC X(06).
019500	02	ACTN-CD-VR2Z	PIC X(01).
019600	02	RNG-SITE-ID-VR2Z	PIC X(11).
019700	02	LIN-NUM-VR2Z	PIC X(04).
019800	02	PLANT-POTN-VR2Z OCCURS 4 TIMES.	
019900	03	PLANT-CD-VR2Z	PIC X(07).
020000	03	POTN-PPA-RS-PCT-VR2Z	PIC X(03).
020100	02	PLANT-TYP-VR2Z	PIC X(01) OCCURS 4 TIMES.
020200	02	FIL	PIC X(18).
020300	01	VR3Z-RCD.	
020400	02	VR3Z-CTL.	
020500	03	REC-TYP-VR3Z	PIC X(02).
020600	03	FMT-NUM-VR3Z	PIC X(01).
020700	03	FMT-CD-VR3Z	PIC X(01).
020800	03	BLM-ADM-U-ST-VR3Z	PIC X(02).
020900	02	FIL	PIC X(06).
021000	02	DATA-DATE-VR3Z	PIC X(06).
021100	02	ACTN-CD-VR3Z	PIC X(01).
021200	02	RNG-SITE-ID-VR3Z	PIC X(11).
021300	02	LIN-NUM-VR3Z	PIC X(04).
021400	02	SP-SN-VR3Z OCCURS 2 TIMES.	
021500	03	SOIL-PHAS-VR3Z	PIC X(05).
021600	03	SOIL-NAM-VR3Z	PIC X(24).
021700	02	FIL	PIC X(04).
021800*			
021900	SD	SORT-FILE	
022000		DATA RECORD IS SORT-REC.	
022100	01	SORT-REC.	
022200	02	SR-KEY.	
022300	03	SORT-KEY-1.	

022400		05	REC-TYP-SR	PIC XX.
022500		05	ST-SR	PIC XX.
022600	03		GROUP-VB-SR.	
022700		05	SORT-KEY-2.	
022800		07	LINE-CNTL-VB-SR.	
022900		09	DS-VB-SR	PIC XX.
023000		09	RA-VB-SR	PIC XX.
023100		09	PU-VB-SR	PIC XX.
023200		07	LINE-VB-SR	PIC X(04).
023300	05		SORT-FIELDS-VB-SR.	
023400		07	ALOT-VB-SR	PIC XXXX.
023500		07	PAST-VB-SR	PIC XX.
023600		07	SWAT-VB-SR	PIC X(6).
023700		07	STRAT-VB-SR	PIC XXXX.
023800		07	CAF-VB-SR	PIC X(5).
023900	03		GROUP-VR-SR REDEFINES GROUP-VB-SR.	
024000		05	SORT-KEY-3.	
024100		07	LINE-CNTL-VR-SR.	
024200		09	RNG-SITE-VR-SR	PIC X(11).
024300		09	FMT-NUM-CD-VR-SR	PIC XX.
024400		07	LINE-VR-SR	PIC XXXX.
024500		05	FILLER	PIC X(14).
024600	02		SR-DATA.	
024700		03	SR-DATA-1.	
024800		05	SR-RT	PIC XXXX.
024900		05	FILLER	PIC X(19).
025000		03	SR-DATA-2	PIC X(05).
025100		03	SR-DATA-3	PIC X(68).
025200			WORKING-STORAGE SECTION.	
025300	77		END-OF-TRAN	PIC X(01) VALUE " ".
025400	77		END-OF-PREV	PIC X(01) VALUE " ".
025500	77		LAST-LIN-NUM	PIC 9(04) VALUE 0000.
025600	77		DATE-SW	PIC X(01).
025700	77		DATE-MV-SW	PIC X(01).
025800	77		TODAYS-DATE	PIC X(06).
025900	01		PARAMETER.	
026000		03	RELINE-CHK	PIC XXX.
026100		03	FILLER	PIC X(77).
026200	01		CTRS.	
026300		02	VB1-CTR	PIC 99999 VALUE 0.
026400		02	VR1-CTR	PIC 99999 VALUE 0.
026500		02	VR2-CTR	PIC 99999 VALUE 0.
026600		02	VR3-CTR	PIC 99999 VALUE 0.
026700	01		DATE-WORK.	
026800		02	DW-YY	PIC X(02).
026900		02	DW-MM	PIC X(02).
027000		02	DW-DD	PIC X(02).
027100	01		MOVED-DATE.	
027200		02	MD-DD	PIC XX.
027300		02	MD-YY	PIC XX.
027400		02	MD-MM	PIC XX.
027500	01		TRAN-CTL.	
027600		03	TRAN-CTL-1.	
027700		05	REC-TYP-TC	PIC XX VALUE SPACES.
027800		05	FILLER	PIC XX.
027900	03		GRP-VB-TC.	
028000		05	TRAN-CTL-2	PIC X(10).

028100		05	FILLER-TC	PIC X(7).
028200	03		GRP-VR-TC REDEFINES GRP-VB-TC.	
028300		05	TRAN-CTL-3	PIC X(17).
028400	01		PREV-CTL.	
028500	03		PREV-CNTL-1.	
028600		05	REC-TYP-PC	PIC XX.
028700		05	ST-PC	PIC XX.
028800	03		GRP-VB-PC.	
028900		05	PREV-CNTL-2.	
029000		07	DS-VB-PC	PIC XX.
029100		07	RA-VB-PC	PIC XX.
029200		07	PU-VB-PC	PIC XX.
029300		07	LINE-VB-PC	PIC X(04).
029400		05	FILLER	PIC X(7).
029500	03		GRP-VR-PC REDEFINES GRP-VB-PC.	
029600		05	PREV-CNTL-3.	
029700		07	RNG-SITE-VR-PC	PIC X(11).
029800		07	FMT-NUM-CD-VR-PC	PIC XX.
029900		07	LINE-VR-PC	PIC XXXX.
030000	01		LINE-CTL.	
030100	03		REC-LC	PIC XX.
030200	03		SDRP-LC.	
030300		05	ST-LC	PIC XX.
030400		05	DS-LC	PIC XX.
030500		05	RA-LC	PIC XX.
030600		05	PU-LC	PIC XX.
030700	03		RNG-SITE-LC	PIC X(11).
030800	03		FMT-NUM-LC	PIC X.
030900	01		LINE-CTL-HLD	PIC X(22).
031000	01		VB1K-RCD.	
031100	02		REC-TYP-VB1K	PIC X(02).
031200	02		FMT-NUM-VB1K	PIC X(01).
031300	02		FMT-CD-VB1K	PIC X(01).
031400	02		SDRP-VB1K.	
031500	03		BLM-ADM-U-ST-VB1K	PIC X(02).
031600	03		BLM-ADM-U-DIST-VB1K	PIC X(02).
031700	03		BLM-ADM-U-RA-VB1K	PIC X(02).
031800	03		BLM-ADM-U-PLU-VB1K	PIC X(02).
031900	02		CLMTC-ADJ-FCTR-VB1K	PIC X(05).
032000	02		DATA-DATE-VB1K	PIC X(06).
032100	02		ACTN-CD-VB1K	PIC X(01).
032200	02		LIN-NUM-VB1K	PIC X(04).
032300	02		SWA-VB1K	PIC X(04).
032400	02		TRN-NUM-VB1K	PIC X(02).
032500	02		SWA-PCT-VB1K	PIC X(03).
032600	02		RNG-SITE-ID-VB1K	PIC X(11).
032700	02		STRATUM-NUM-VB1K	PIC X(04).
032800	02		ALLOT-NUM-VB1K	PIC X(04).
032900	02		PASTURE-NUM-VB1K	PIC X(02).
033000	02		VEG-SUB-TYP-VB1K	PIC X(04).
033100	02		RNG-ECOL-COND-CLS-VB1K	PIC X(01).
033200	02		PCT-SPL-VB1K	PIC X(03).
033300	02		ASPT-VB1K	PIC X(02).
033400	02		L-FORM-VB1K	PIC X(03).
033500	02		SOIL-PHAS-VB1K	PIC X(05).
033600	02		FIL	PIC X(20).
033700	01		VR1K-RCD.	

033800 02 VR1K-CTL.  
033900 03 REC-TYP-VR1K PIC X(02).  
034000 03 FMT-NUM-VR1K PIC X(01).  
034100 03 FMT-CD-VR1K PIC X(01).  
034200 03 BLM-ADM-U-ST-VR1K PIC X(02).  
034300 02 FIL PIC X(06).  
034400 02 DATA-DATE-VR1K PIC X(06).  
034500 02 ACTN-CD-VR1K PIC X(01).  
034600 02 RNG-SITE-ID-VR1K PIC X(11).  
034700 02 LIN-NUM-VR1K PIC X(04).  
034800 02 RNG-SITE-NAM-VR1K PIC X(08).  
034900 02 PRECIP-ZONE-VR1K PIC X(04).  
035000 02 SSF-VAL-AVG-VR1K PIC X(03).  
035100 02 POTN-PPA-RS-GRP-VR1K.  
035200 03 POTN-PPA-RS-VR1K OCCURS 3 TIMES  
035300 PIC X(06).  
035400 02 FIL PIC X(29).  
035500 01 VR2K-RCD.  
035600 02 VR2K-CTL.  
035700 03 REC-TYP-VR2K PIC X(02).  
035800 03 FMT-NUM-VR2K PIC X(01).  
035900 03 FMT-CD-VR2K PIC X(01).  
036000 03 BLM-ADM-U-ST-VR2K PIC X(02).  
036100 02 FIL PIC X(06).  
036200 02 DATA-DATE-VR2K PIC X(06).  
036300 02 ACTN-CD-VR2K PIC X(01).  
036400 02 RNG-SITE-ID-VR2K PIC X(11).  
036500 02 LIN-NUM-VR2K PIC X(04).  
036600 02 PLANT-POTN-VR2K OCCURS 4 TIMES.  
036700 03 PLANT-CD-VR2K PIC X(07).  
036800 03 POTN-PPA-RS-PCT-VR2K PIC X(03).  
036900 02 PLANT-TYP-VR2K PIC X(01) OCCURS 4 TIMES.  
037000 02 FIL PIC X(18).  
037100 01 VR3K-RCD.  
037200 02 VR3K-CTL.  
037300 03 REC-TYP-VR3K PIC X(02).  
037400 03 FMT-NUM-VR3K PIC X(01).  
037500 03 FMT-CD-VR3K PIC X(01).  
037600 03 BLM-ADM-U-ST-VR3K PIC X(02).  
037700 02 FIL PIC X(06).  
037800 02 DATA-DATE-VR3K PIC X(06).  
037900 02 ACTN-CD-VR3K PIC X(01).  
038000 02 RNG-SITE-ID-VR3K PIC X(11).  
038100 02 LIN-NUM-VR3K PIC X(04).  
038200 02 SP-SN-VR3K OCCURS 2 TIMES.  
038300 03 SOIL-PHAS-VR3K PIC X(05).  
038400 03 SOIL-NAM-VR3K PIC X(24).  
038500 02 FIL PIC X(04).  
038600 PROCEDURE DIVISION.  
038700 000-DRIVER SECTION.  
038800 010-MAINLINE.  
038900 PERFORM 100-INITIALIZE.  
039000 PERFORM 200-SORT.  
039100 PERFORM 990-TERMINATE.  
039200 STOP RUN.  
039300\*  
039400 100-INITIALIZE SECTION.

```

039500 110-OPENS.
039600     OPEN INPUT PREV-FILE TRAN-FILE
039700         OUTPUT NEW-FILE.
039800     MOVE ALL "9" TO PREV-CTL.
039900     MOVE SPACE TO LINE-CTL LINE-CTL-HLD.
040000     ACCEPT TODAYS-DATE FROM DATE.
040100     ACCEPT PARAMETER.
040200*
040300 200-SORT SECTION.
040400 210-SORT-VERB.
040500     SORT SORT-FILE
040600         DESCENDING KEY REC-TYP-SR
040700         ASCENDING KEY ST-SR GROUP-VB-SR
040800         INPUT PROCEDURE 300-READ-FORMAT
040900         OUTPUT PROCEDURE 400-MATCH-UPDATE.
041000*
041100 300-READ-FORMAT SECTION.
041200 310-READ.
041300     READ TRAN-FILE
041400         AT END GO TO 300-EXIT.
041500     MOVE SPACE TO SR-KEY.
041600     MOVE REC-TYP-VB-TF TO REC-TYP-SR.
041700     MOVE ST-VB-TF TO ST-SR.
041800     IF (REC-TYP-VB-TF = "VB")
041900         AND (ACTN-VB-TF = SPACE)
042000         MOVE "A" TO ACTN-VB-TF.
042100     IF (REC-TYP-VB-TF = "VR")
042200         AND (ACTN-VR-TF = SPACE)
042300         MOVE "A" TO ACTN-VR-TF.
042400     IF REC-TYP-VB-TF = "VB"
042500         PERFORM 320-BUILD-VB-CTL
042600         ELSE
042700         PERFORM 330-BUILD-VR-CTL.
042800     RELEASE SORT-REC.
042900     GO TO 310-READ.
043000*
043100 320-BUILD-VB-CTL.
043200     MOVE DS-VB-TF TO DS-VB-SR.
043300     MOVE RA-VB-TF TO RA-VB-SR.
043400     MOVE PU-VB-TF TO PU-VB-SR.
043500     MOVE ALOT-VB-TF TO ALOT-VB-SR.
043600     MOVE PAST-VB-TF TO PAST-VB-SR.
043700     MOVE SWAT-VB-TF TO SWAT-VB-SR.
043800     MOVE STRATUM-VB-TF TO STRAT-VB-SR.
043900     MOVE CAF-VB-TF TO CAF-VB-SR.
044000     MOVE LINE-VB-TF TO LINE-VB-SR.
044100     IF (LINE-VB-SR = SPACES OR "0000")
044200         OR (RELINER-CHK = "YES")
044300         MOVE ALL "9" TO LINE-VB-SR, LINE-VB-TF.
044400     MOVE REC-VB-TF TO SR-DATA.
044500 330-BUILD-VR-CTL.
044600     MOVE FMT-NUM-CD-VB-TF TO FMT-NUM-CD-VR-SR.
044700     MOVE RNG-SITE-VR-TF TO RNG-SITE-VR-SR.
044800     MOVE LINE-VR-TF TO LINE-VR-SR.
044900     IF (LINE-VR-SR = SPACES OR "0000")
045000         OR (RELINER-CHK = "YES")
045100         MOVE ALL "9" TO LINE-VR-SR, LINE-VR-TF.

```



```

045200     MOVE REC-VR-TF TO SR-DATA.
045300 300-EXIT.
045400     EXIT.
045500*
045600 400-MATCH-UPDATE SECTION.
045700 410-GET-FIRST-RCDS.
045800     PERFORM 430-RETURN-SORT.
045900     PERFORM 440-READ-PREV.
046000 420-COMPARE.
046100     IF TRAN-CTL IS EQUAL TO ALL "9" AND
046200         PREV-CTL IS EQUAL TO ALL "9"
046300         GO TO 400-EXIT.
046400     IF TRAN-CTL IS GREATER THAN PREV-CTL
046500         PERFORM 500-NO-TRAN
046600         GO TO 420-COMPARE.
046700     IF PREV-CTL IS GREATER THAN TRAN-CTL
046800         PERFORM 600-NO-PREV
046900         GO TO 420-COMPARE.
047000     IF TRAN-CTL IS EQUAL TO PREV-CTL
047100         PERFORM 700-MATCH.
047200     GO TO 420-COMPARE.
047300 430-RETURN-SORT.
047400     RETURN SORT-FILE AT END
047500         MOVE "X" TO END-OF-TRAN.
047600     MOVE SORT-KEY-1 TO TRAN-CTL-1.
047700*     IF END-OF-TRAN NOT = "X"
047800*         DISPLAY SORT-REC.
047900     IF REC-TYP-SR IS EQUAL TO "VB"
048000         MOVE SR-DATA TO VB1K-RCD
048100         MOVE SPACE TO FILLER-TC
048200         MOVE SORT-KEY-2 TO TRAN-CTL-2 ELSE
048300         MOVE SORT-KEY-3 TO TRAN-CTL-3.
048400     IF SR-RT IS EQUAL TO "VR1D"
048500         MOVE SR-DATA TO VR1K-RCD.
048600     IF SR-RT IS EQUAL TO "VR2D"
048700         MOVE SR-DATA TO VR2K-RCD.
048800     IF SR-RT IS EQUAL TO "VR3D"
048900         MOVE SR-DATA TO VR3K-RCD.
049000     IF END-OF-TRAN IS EQUAL TO "X"
049100         MOVE ALL "9" TO TRAN-CTL.
049200 440-READ-PREV.
049300     READ PREV-FILE AT END
049400         MOVE "X" TO END-OF-PREV.
049500     IF END-OF-PREV NOT = "X"
049600         MOVE SPACE TO PREV-CTL.
049700     MOVE REC-TYP-VB1X TO REC-TYP-PC.
049800     MOVE BLM-ADM-U-ST-VB1X TO ST-PC.
049900     IF REC-TYP-VR2X = "VB"
050000         PERFORM 450-BUILD-VB-CTL
050100         ELSE
050200         PERFORM 460-BUILD-VR-CTL.
050300     IF END-OF-PREV = "X"
050400         MOVE ALL "9" TO PREV-CTL.
050500 450-BUILD-VB-CTL.
050600     MOVE BLM-ADM-U-DIST-VB1X TO DS-VB-PC.
050700     MOVE BLM-ADM-U-RA-VB1X TO RA-VB-PC.
050800     MOVE BLM-ADM-U-PLU-VB1X TO PU-VB-PC.

```

```

050900     MOVE LIN-NUM-VB1X TO LINE-VB-PC.
051000 460-BUILD-VR-CTL.
051100     MOVE RNG-SITE-ID-VR1X TO RNG-SITE-VR-PC.
051200     MOVE LIN-NUM-VR1X TO LINE-VR-PC.
051300     MOVE FMT-NUM-CD-VR1X TO FMT-NUM-CD-VR-PC.
051400*
051500 500-NO-TRAN.
051600     MOVE VB1X-RCD      TO VB1Z-RCD.
051700     PERFORM 800-ADD-TO-CTRS.
051800     IF REC-TYP-VB1Z = "VB"
051900         PERFORM 830-CHECK-VB-LIN-NUM THRU 830-OUT
052000         MOVE LAST-LIN-NUM TO LIN-NUM-VB1Z
052100     ELSE
052200         PERFORM 840-CHECK-VR-LIN-NUM THRU 840-OUT
052300         MOVE LAST-LIN-NUM TO LIN-NUM-VR1Z.
052400     WRITE VB1Z-RCD.
052500     PERFORM 440-READ-PREV.
052600 600-NO-PREV.
052700     MOVE SR-DATA      TO VB1Z-RCD.
052800     PERFORM 800-ADD-TO-CTRS.
052900     IF REC-TYP-VB1Z = "VB"
053000         PERFORM 830-CHECK-VB-LIN-NUM THRU 830-OUT
053100         MOVE LAST-LIN-NUM TO LIN-NUM-VB1Z
053200     ELSE
053300         PERFORM 840-CHECK-VR-LIN-NUM THRU 840-OUT
053400         MOVE LAST-LIN-NUM TO LIN-NUM-VR1Z.
053500     PERFORM 890-EDIT-DATE.
053600
053700     WRITE VB1Z-RCD.
053800     PERFORM 430-RETURN-SORT.
053900 700-MATCH.
054000     MOVE VB1X-RCD      TO VB1Z-RCD.
054100     PERFORM 890-EDIT-DATE.
054200     IF SR-DATA-3 NOT = SPACES AND
054300         REC-TYP-VB1Z = "VB"
054400         PERFORM 850-MOVE-VB-FIELDS
054500         PERFORM 830-CHECK-VB-LIN-NUM THRU 830-OUT
054600         MOVE LAST-LIN-NUM TO LIN-NUM-VB1Z
054700         PERFORM 800-ADD-TO-CTRS
054800         MOVE "A" TO ACTN-CD-VB1Z
054900         WRITE VB1Z-RCD.
055000     IF SR-DATA-2 NOT = SPACES AND SR-DATA-3 NOT = SPACES AND
055100         REC-TYP-VB1Z = "VR"      AND
055200         FMT-NUM-VB1Z = "1"
055300         PERFORM 860-MOVE-VR1-FIELDS
055400         PERFORM 840-CHECK-VR-LIN-NUM THRU 840-OUT
055500         MOVE LAST-LIN-NUM TO LIN-NUM-VR1Z
055600         PERFORM 800-ADD-TO-CTRS
055700         MOVE "A" TO ACTN-CD-VR1Z
055800         WRITE VB1Z-RCD.
055900     IF SR-DATA-2 NOT = SPACES AND SR-DATA-3 NOT = SPACES AND
056000         REC-TYP-VB1Z = "VR"      AND
056100         FMT-NUM-VB1Z = "2"
056200         PERFORM 870-MOVE-VR2-FIELDS
056300         PERFORM 840-CHECK-VR-LIN-NUM THRU 840-OUT
056400         MOVE LAST-LIN-NUM TO LIN-NUM-VR1Z
056500         PERFORM 800-ADD-TO-CTRS

```

```

056600             MOVE "A" TO ACTN-CD-VR2Z
056700             WRITE VB1Z-RCD.
056800             IF SR-DATA-2 NOT = SPACES AND SR-DATA-3 NOT = SPACES AND
056900             REC-TYP-VB1X = "VR"      AND
057000             FMT-NUM-VB1X = "3"
057100             PERFORM 880-MOVE-VR3-FIELDS
057200             PERFORM 840-CHECK-VR-LIN-NUM THRU 840-OUT
057300             MOVE LAST-LIN-NUM TO LIN-NUM-VR1Z
057400             PERFORM 800-ADD-TO-CTRS
057500             MOVE "A" TO ACTN-CD-VR3Z
057600             WRITE VB1Z-RCD.
057700             PERFORM 430-RETURN-SORT.
057800             PERFORM 440-READ-PREV.
057900 800-ADD-TO-CTRS.
058000             IF REC-TYP-VB1Z = "VB"
058100             ADD 1 TO VB1-CTR.
058200             IF REC-TYP-VB1Z = "VR" AND
058300             FMT-NUM-VB1Z = "1"
058400             ADD 1 TO VR1-CTR.
058500             IF REC-TYP-VB1Z = "VR" AND
058600             FMT-NUM-VB1Z = "2"
058700             ADD 1 TO VR2-CTR.
058800             IF REC-TYP-VB1Z = "VR" AND
058900             FMT-NUM-VB1Z = "3"
059000             ADD 1 TO VR3-CTR.
059100 810-BUILD-VB-LIN-NUM.
059200             IF (LIN-NUM-VB1Z NOT NUMERIC) OR
059300             (LIN-NUM-VB1Z = "0000")
059400             MOVE "9999" TO LIN-NUM-VB1Z.
059500 820-BUILD-VR-LIN-NUM.
059600             IF (LIN-NUM-VR1Z NOT NUMERIC) OR
059700             (LIN-NUM-VR1Z = "0000")
059800             MOVE "9999" TO LIN-NUM-VR1Z.
059900 830-CHECK-VB-LIN-NUM.
060000             MOVE SPACE TO LINE-CTL.
060100             MOVE REC-TYP-VB1Z TO REC-LC.
060200             MOVE SDRP-VB1Z TO SDRP-LC.
060300             IF LIN-NUM-VB1Z NOT = ALL "9"
060400             MOVE LINE-CTL TO LINE-CTL-HLD
060500             MOVE LIN-NUM-VB1Z TO LAST-LIN-NUM
060600             GO TO 830-OUT.
060700             IF LINE-CTL NOT = LINE-CTL-HLD
060800             MOVE LINE-CTL TO LINE-CTL-HLD
060900             MOVE 0001 TO LAST-LIN-NUM
061000             ELSE
061100             ADD 1 TO LAST-LIN-NUM.
061200 830-OUT.
061300             EXIT.
061400 840-CHECK-VR-LIN-NUM.
061500             MOVE SPACE TO LINE-CTL.
061600             MOVE REC-TYP-VR1Z TO REC-LC.
061700             MOVE BLM-ADM-U-ST-VR1Z TO ST-LC.
061800             MOVE RNG-SITE-ID-VR1Z TO RNG-SITE-LC.
061900             MOVE FMT-NUM-VR1Z TO FMT-NUM-LC.
062000             IF LIN-NUM-VR1Z NOT = ALL "9"
062100             MOVE LINE-CTL TO LINE-CTL-HLD
062200             MOVE LIN-NUM-VR1Z TO LAST-LIN-NUM

```

```

062300         GO TO 840-OUT.
062400     IF LINE-CTL NOT = LINE-CTL-HLD
062500         MOVE LINE-CTL TO LINE-CTL-HLD
062600         MOVE 0001 TO LAST-LIN-NUM
062700     ELSE
062800         ADD 1 TO LAST-LIN-NUM.
062900 840-OUT.
063000     EXIT.
063100*
063200 850-MOVE-VB-FIELDS.
063300     IF SWA-VB1K           = SPACES
063400         NEXT SENTENCE
063500     ELSE
063600         IF SWA-VB1K           = "*****"
063700             MOVE SPACES TO SWA-VB1Z
063800         ELSE
063900             MOVE SWA-VB1K TO SWA-VB1Z.
064000     IF TRN-NUM-VB1K = SPACES
064100         NEXT SENTENCE
064200     ELSE
064300         IF TRN-NUM-VB1K = "***"
064400             MOVE SPACES TO TRN-NUM-VB1Z
064500             MOVE TRN-NUM-VB1K TO TRN-NUM-VB1Z.
064600     IF SWA-PCT-VB1K = SPACES
064700         NEXT SENTENCE
064800     ELSE
064900         IF SWA-PCT-VB1K = "****"
065000             MOVE SPACES TO SWA-PCT-VB1Z
065100         ELSE
065200             MOVE SWA-PCT-VB1K TO SWA-PCT-VB1Z.
065300     IF RNG-SITE-ID-VB1K = SPACES
065400         NEXT SENTENCE
065500     ELSE
065600         IF RNG-SITE-ID-VB1K = "*****"
065700             MOVE SPACES TO RNG-SITE-ID-VB1Z
065800         ELSE
065900             MOVE RNG-SITE-ID-VB1K TO RNG-SITE-ID-VB1Z.
066000     IF STRATUM-NUM-VB1K = "*****"
066100         MOVE SPACES TO STRATUM-NUM-VB1Z STRATUM-NUM-VB1K.
066200     IF STRATUM-NUM-VB1K NOT = SPACES
066300         MOVE STRATUM-NUM-VB1K TO STRATUM-NUM-VB1Z.
066400     IF ALLOT-NUM-VB1K = SPACES
066500         NEXT SENTENCE
066600     ELSE
066700         IF ALLOT-NUM-VB1K = "*****"
066800             MOVE SPACES TO ALLOT-NUM-VB1Z
066900         ELSE
067000             MOVE ALLOT-NUM-VB1K TO ALLOT-NUM-VB1Z.
067100     IF PASTURE-NUM-VB1K = SPACES
067200         NEXT SENTENCE
067300     ELSE
067400         IF PASTURE-NUM-VB1K = "***"
067500             MOVE SPACES TO PASTURE-NUM-VB1Z
067600         ELSE
067700             MOVE PASTURE-NUM-VB1K TO PASTURE-NUM-VB1Z.
067800     IF VEG-SUB-TYP-VB1K = SPACES
067900         NEXT SENTENCE

```

```

068000         ELSE
068100         IF VEG-SUB-TYP-VB1K = "*****"
068200             MOVE SPACES TO VEG-SUB-TYP-VB1Z
068300         ELSE
068400             MOVE VEG-SUB-TYP-VB1K TO VEG-SUB-TYP-VB1Z.
068500 IF RNG-ECOL-COND-CLS-VB1K = SPACES
068600     NEXT SENTENCE
068700     ELSE
068800     IF RNG-ECOL-COND-CLS-VB1K = "*"
068900         MOVE SPACES TO RNG-ECOL-COND-CLS-VB1Z
069000     ELSE
069100         MOVE RNG-ECOL-COND-CLS-VB1K TO
069200             RNG-ECOL-COND-CLS-VB1Z.
069300 IF PCT-SPL-VB1K = SPACES
069400     NEXT SENTENCE
069500     ELSE
069600     IF PCT-SPL-VB1K = "****"
069700         MOVE SPACES TO PCT-SPL-VB1Z
069800     ELSE
069900         MOVE PCT-SPL-VB1K TO PCT-SPL-VB1Z.
070000 IF ASPT-VB1K = SPACES
070100     NEXT SENTENCE
070200     ELSE
070300     IF ASPT-VB1K = "***"
070400         MOVE SPACES TO ASPT-VB1Z
070500     ELSE
070600         MOVE ASPT-VB1K TO ASPT-VB1Z.
070700 IF L-FORM-VB1K = SPACES
070800     NEXT SENTENCE
070900     ELSE
071000     IF L-FORM-VB1K = "****"
071100         MOVE SPACES TO L-FORM-VB1Z
071200     ELSE
071300         MOVE L-FORM-VB1K TO L-FORM-VB1Z.
071400 IF SOIL-PHAS-VB1K = SPACES
071500     NEXT SENTENCE
071600     ELSE
071700     IF SOIL-PHAS-VB1K = "*****"
071800         MOVE SPACES TO SOIL-PHAS-VB1Z
071900     ELSE
072000         MOVE SOIL-PHAS-VB1K TO SOIL-PHAS-VB1Z.
072100 860-MOVE-VR1-FIELDS.
072200     IF RNG-SITE-NAM-VR1K = SPACES
072300         NEXT SENTENCE
072400         ELSE
072500         IF RNG-SITE-NAM-VR1K = "*****"
072600             MOVE SPACES TO RNG-SITE-NAM-VR1Z
072700         ELSE
072800             MOVE RNG-SITE-NAM-VR1K TO RNG-SITE-NAM-VR1Z.
072900 IF PRECIP-ZONE-VR1K = SPACES
073000     NEXT SENTENCE
073100     ELSE
073200     IF PRECIP-ZONE-VR1K = "*****"
073300         MOVE SPACES TO PRECIP-ZONE-VR1Z
073400     ELSE
073500         MOVE PRECIP-ZONE-VR1K TO PRECIP-ZONE-VR1Z.
073600 IF SSF-VAL-AVG-VR1K = SPACES

```

```

073700         NEXT SENTENCE
073800         ELSE
073900         IF SSF-VAL-AVG-VR1K = "****"
074000             MOVE SPACES TO SSF-VAL-AVG-VR1Z
074100             ELSE
074200             MOVE SSF-VAL-AVG-VR1K TO SSF-VAL-AVG-VR1Z.
074300 IF POTN-PPA-RS-VR1K (2) = SPACES
074400     NEXT SENTENCE
074500     ELSE
074600     IF POTN-PPA-RS-VR1K (2) = "*****"
074700         MOVE SPACES TO POTN-PPA-RS-VR1Z (2)
074800         ELSE
074900         MOVE POTN-PPA-RS-VR1K (2) TO
075000             POTN-PPA-RS-VR1Z (2).
075100 IF POTN-PPA-RS-VR1K (3) = SPACES
075200     NEXT SENTENCE
075300     ELSE
075400     IF POTN-PPA-RS-VR1K (3) = "*****"
075500         MOVE SPACES TO POTN-PPA-RS-VR1Z (3)
075600         ELSE
075700         MOVE POTN-PPA-RS-VR1K (3) TO
075800             POTN-PPA-RS-VR1Z (3).
075900 IF POTN-PPA-RS-VR1K (1) = SPACES
076000     NEXT SENTENCE
076100     ELSE
076200     IF POTN-PPA-RS-VR1K (1) = "*****"
076300         MOVE SPACES TO POTN-PPA-RS-VR1Z (1)
076400         ELSE
076500         MOVE POTN-PPA-RS-VR1K (1) TO
076600             POTN-PPA-RS-VR1Z (1).
076700 870-MOVE-VR2-FIELDS.
076800 IF PLANT-CD-VR2K (1) = SPACES
076900     NEXT SENTENCE
077000     ELSE
077100     IF PLANT-CD-VR2K (1) = "*****"
077200         MOVE SPACES TO PLANT-CD-VR2Z (1)
077300         ELSE
077400         MOVE PLANT-CD-VR2K (1) TO PLANT-CD-VR2Z (1).
077500 IF POTN-PPA-RS-PCT-VR2K (1) = SPACES
077600     NEXT SENTENCE
077700     ELSE
077800     IF POTN-PPA-RS-PCT-VR2K (1) = "****"
077900         MOVE SPACES TO POTN-PPA-RS-PCT-VR2K (1)
078000         ELSE
078100         MOVE POTN-PPA-RS-PCT-VR2K (1) TO
078200             POTN-PPA-RS-PCT-VR2K (1).
078300 IF PLANT-CD-VR2K (2) = SPACES
078400     NEXT SENTENCE
078500     ELSE
078600     IF PLANT-CD-VR2K (2) = "*****"
078700         MOVE SPACES TO PLANT-CD-VR2Z (2)
078800         ELSE
078900         MOVE PLANT-CD-VR2K (2) TO PLANT-CD-VR2Z (2).
079000 IF POTN-PPA-RS-PCT-VR2K (2) = SPACES
079100     NEXT SENTENCE
079200     ELSE
079300     IF POTN-PPA-RS-PCT-VR2K (2) = "****"

```

```

079400             MOVE SPACES TO POTN-PPA-RS-PCT-VR2K (2)
079500             ELSE
079600             MOVE POTN-PPA-RS-PCT-VR2K (2) TO
079700                 POTN-PPA-RS-PCT-VR2K (2).
079800 IF PLANT-CD-VR2K (3) = SPACES
079900     NEXT SENTENCE
080000     ELSE
080100     IF PLANT-CD-VR2K (3) = "*****"
080200         MOVE SPACES TO PLANT-CD-VR2Z (3)
080300         ELSE
080400         MOVE PLANT-CD-VR2K (3) TO PLANT-CD-VR2Z (3).
080500 IF POTN-PPA-RS-PCT-VR2K (3) = SPACES
080600     NEXT SENTENCE
080700     ELSE
080800     IF POTN-PPA-RS-PCT-VR2K (3) = "****"
080900         MOVE SPACES TO POTN-PPA-RS-PCT-VR2Z (3)
081000         ELSE
081100         MOVE POTN-PPA-RS-PCT-VR2K (3) TO
081200             POTN-PPA-RS-PCT-VR2Z (3).
081300 IF PLANT-TYP-VR2K (1) = SPACES
081400     NEXT SENTENCE
081500     ELSE
081600     IF PLANT-TYP-VR2K (1) = "*"
081700         MOVE SPACES TO PLANT-TYP-VR2Z (1)
081800         ELSE
081900         MOVE PLANT-TYP-VR2K (1) TO PLANT-TYP-VR2Z (1).
082000 IF PLANT-TYP-VR2K (2) = SPACES
082100     NEXT SENTENCE
082200     ELSE
082300     IF PLANT-TYP-VR2K (2) = "*"
082400         MOVE SPACES TO PLANT-TYP-VR2Z (2)
082500         ELSE
082600         MOVE PLANT-TYP-VR2K (2) TO PLANT-TYP-VR2Z (2).
082700 IF PLANT-TYP-VR2K (3) = SPACES
082800     NEXT SENTENCE
082900     ELSE
083000     IF PLANT-TYP-VR2K (3) = "*"
083100         MOVE SPACES TO PLANT-TYP-VR2Z (3)
083200         ELSE
083300         MOVE PLANT-TYP-VR2K (3) TO PLANT-TYP-VR2Z (3).
083400 IF PLANT-TYP-VR2K (4) = SPACES
083500     NEXT SENTENCE
083600     ELSE
083700     IF PLANT-TYP-VR2K (4) = "*"
083800         MOVE SPACES TO PLANT-TYP-VR2Z (4)
083900         ELSE
084000         MOVE PLANT-TYP-VR2K (4) TO PLANT-TYP-VR2Z (4).
084100 880-MOVE-VR3-FIELDS.
084200 IF SOIL-PHAS-VR3K (1) = SPACES
084300     NEXT SENTENCE
084400     ELSE
084500     IF SOIL-PHAS-VR3K (1) = "*****"
084600         MOVE SPACES TO SOIL-PHAS-VR3Z (1)
084700         ELSE
084800         MOVE SOIL-PHAS-VR3K (1) TO SOIL-PHAS-VR3Z (1).
084900 IF SOIL-NAM-VR3K (1) = SPACES
085000     NEXT SENTENCE

```

```

085100         ELSE
085200         IF SOIL-NAM-VR3K (1) = "*****"
085300             MOVE SPACES TO SOIL-NAM-VR3Z (1)
085400             ELSE
085500             MOVE SOIL-NAM-VR3K (1) TO SOIL-NAM-VR3Z (1).
085600 IF SOIL-PHAS-VR3K (2) = SPACES
085700     NEXT SENTENCE
085800     ELSE
085900     IF SOIL-PHAS-VR3K (2) = "*****"
086000         MOVE SPACES TO SOIL-PHAS-VR3Z (2)
086100         ELSE
086200         MOVE SOIL-PHAS-VR3K (2) TO SOIL-PHAS-VR3Z (2).
086300 IF SOIL-NAM-VR3K (2) = SPACES
086400     NEXT SENTENCE
086500     ELSE
086600     IF SOIL-NAM-VR3K (2) = "*****"
086700         MOVE SPACES TO SOIL-NAM-VR3Z (2)
086800         ELSE
086900         MOVE SOIL-NAM-VR3K (2) TO SOIL-NAM-VR3Z (2).
087000*
087100 890-EDIT-DATE.
087200     MOVE SPACE TO DATE-MV-SW.
087300     IF REC-TYP-VB1Z = "VB"
087400         MOVE DATA-DATE-VB1Z TO DATE-WORK
087500         ELSE
087600         MOVE DATA-DATE-VR1Z TO DATE-WORK.
087700     PERFORM 900-EDIT-FIELDS.
087800     IF DATE-SW NOT = " "
087900         PERFORM 910-SWITCH-FIELDS
088000         PERFORM 900-EDIT-FIELDS.
088100     IF DATE-SW NOT = " " AND
088200         REC-TYP-VB1Z = "VB"
088300         MOVE TODAYS-DATE TO DATA-DATE-VB1Z.
088400     IF DATE-SW NOT = " " AND
088500         REC-TYP-VB1Z = "VR"
088600         MOVE TODAYS-DATE TO DATA-DATE-VR1Z.
088700     IF DATE-MV-SW NOT = " " AND
088800         REC-TYP-VB1Z = "VB"
088900         MOVE MOVED-DATE TO DATA-DATE-VB1Z.
089000     IF DATE-MV-SW NOT = " " AND
089100         REC-TYP-VB1Z = "VR"
089200         MOVE MOVED-DATE TO DATA-DATE-VR1Z.
089300 900-EDIT-FIELDS.
089400     MOVE SPACE TO DATE-SW.
089500     IF DW-MM NOT NUMERIC OR
089600         DW-MM > "12" OR
089700         DW-MM < "01"
089800         MOVE "X" TO DATE-SW.
089900     IF DW-DD NOT NUMERIC OR
090000         DW-DD < "01" OR
090100         DW-DD > "31"
090200         MOVE "X" TO DATE-SW.
090300     IF DW-YY NOT NUMERIC OR
090400         DW-YY < "78"
090500         MOVE "X" TO DATE-SW.
090600 910-SWITCH-FIELDS.
090700     IF DW-DD = "78" OR "79" OR "80" OR "81" OR "82"

```



```

090800          MOVE DW-MM TO MD-MM
090900          MOVE DW-DD TO MD-DD
091000          MOVE DW-YY TO MD-YY
091100          MOVE "X"    TO DATE-MV-SW.
091200 400-EXIT.
091300      EXIT.
091400*
091500 990-TERMINATE SECTION.
091600 990-PRINT.
091700      DISPLAY "  VB1    VR1    VR2    VR3".
091800      DISPLAY VB1-CTR "  " VR1-CTR "  " VR2-CTR "  " VR3-CTR.
091900 990-CLOSE.
092000      CLOSE PREV-FILE TRAN-FILE NEW-FILE.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES315P.
000300*          VB / VR VERIFICATION LIST
000400*
000500 AUTHOR. CORA FISCHER.
000600 INSTALLATION.
000700 DATE-WRITTEN. 8/8/80.
000800 DATE-COMPILED.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.
001200 OBJECT-COMPUTER. LEVEL-66-ASCII.
001300 INPUT-OUTPUT SECTION.
001400 FILE-CONTROL.
001500      SELECT INPUT-FILE1 ASSIGN TO I1-ES310UD1
001600          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001700      SELECT PRINT-FILE ASSIGN TO P1-PRINTER
001800          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001900      SELECT SORT-FILE ASSIGN TO S1.
002000 DATA DIVISION.
002100 SUB-SCHEMA SECTION.
002200 DB CODVAL2 WITHIN BLMDIC.
002300 FILE SECTION.
002400 FD INPUT-FILE1          CODE-SET IS GBCD
002500                          LABEL RECORDS ARE STANDARD
002600                          DATA RECORDS ARE FDR-VB FDR-VR1
002700                          FDR-VR2 FDR-VR3.
002800 01 FDR-VB.
002900      03 REC-TYPE-3529-VB-I1          PIC          X(02).
003000      03 FMT-NO-3576-VB-I1          PIC          X(01).
003100      03 FMT-CD-3579-VB-I1          PIC          X(01).
003200      03 ADM-UNIT-0003-VB-I1.
003300          05 ADM-ST-0003-VB-I1          PIC          X(02).
003400          05 ADM-DI-0003-VB-I1          PIC          X(02).
003500          05 ADM-RA-0003-VB-I1          PIC          X(02).
003600          05 ADM-PU-0003-VB-I1          PIC          X(02).
003700      03 CLMTC-ADJ-FCTR-3547-VB-I1    PIC          99V999.
003800      03 DATA-DT-6618-VB-I1          PIC          X(06).
003900      03 ACT-CD-7350-VB-I1          PIC          X(01).
004000      03 LINE-NO-3578-VB-I1          PIC          X(04).
004100      03 SWA-3507-VB-I1          PIC          X(04).
004200      03 TRN-NUM-3508-VB-I1          PIC          X(02).
004300      03 SWA-PCT-3516-VB-I1          PIC          X(03).

```

004400	03	RNG-SITE-ID-3528-VB-I1	PIC	X(11).
004500	03	STRATUM-NUM-3906-VB-I1	PIC	9(04).
004600	03	ALLOT-NUM-0968-VB-I1	PIC	X(04).
004700	03	PASTURE-NUM-3905-VB-I1	PIC	X(02).
004800	03	VEG-SUB-TYPE-2706-VB-I1	PIC	X(04).
004900	03	RNG-ECOL-COND-CLS-2625-VB-I1	PIC	X(01).
005000	03	PCT-SLP-3874-VB-I1	PIC	X(03).
005100	03	ASPT-6523-VB-I1	PIC	X(02).
005200	03	L-FORM-5132-VB-I1	PIC	X(03).
005300	03	SOIL-PHAS-4649-VB-I1	PIC	X(05).
005400	03	FILLER	PIC	X(20).
005500	01	FDR-VR1.		
005600	03	REC-TYPE-3529-VR1-I1	PIC	X(02).
005700	03	FMT-NO-3576-VR1-I1	PIC	X(01).
005800	03	FMT-CD-3579-VR1-I1	PIC	X(01).
005900	03	ADM-UNIT-0003-VR1-I1.		
006000	05	ADM-ST-0003-VR1-I1	PIC	X(02).
006100	05	ADM-DI-0003-VR1-I1	PIC	X(02).
006200	05	ADM-RA-0003-VR1-I1	PIC	X(02).
006300	05	ADM-PU-0003-VR1-I1	PIC	X(02).
006400	03	DATA-DT-6618-VR1-I1	PIC	X(06).
006500	03	ACT-CD-7350-VR1-I1	PIC	X(01).
006600	03	RNG-SITE-ID-3528-VR1-I1	PIC	X(11).
006700	03	FILLER	PIC	X(04).
006800	03	RNG-SITE-NAM-3914-VR1-I1	PIC	X(08).
006900	03	PRECIP-ZONE-3909-VR1-I1.		
007000	05	PRECIP-ZONE-LOW-3909-VR1-I1	PIC	X(02).
007100	05	PRECIP-ZONE-HI-3909-VR1-I1	PIC	X(02).
007200	03	SSF-VAL-AVG-4818-VR1-I1	PIC	X(03).
007300	03	POTN-PPA-3930-VR1-I1	PIC	X(06) OCCURS 3 TIMES.
007400	03	FILLER	PIC	X(29).
007500	01	FDR-VR2.		
007600	03	REC-TYPE-3529-VR2-I1	PIC	X(02).
007700	03	FMT-NO-3576-VR2-I1	PIC	X(01).
007800	03	FMT-CD-3579-VR2-I1	PIC	X(01).
007900	03	ADM-UNIT-0003-VR2-I1.		
008000	05	ADM-ST-0003-VR2-I1	PIC	X(02).
008100	05	ADM-DI-0003-VR2-I1	PIC	X(02).
008200	05	ADM-RA-0003-VR2-I1	PIC	X(02).
008300	05	ADM-PU-0003-VR2-I1	PIC	X(02).
008400	03	DATA-DT-6618-VR2-I1	PIC	X(06).
008500	03	ACT-CD-7350-VR2-I1	PIC	X(01).
008600	03	RNG-SITE-ID-3528-VR2-I1	PIC	X(11).
008700	03	LINE-NO-3578-VR2-I1	PIC	X(04).
008800	03	PLANT-CD-POTN-PCT-VR2-I1	OCCURS 4 TIMES.	
008900	05	PLANT-CD-2646-VR2-I1	PIC	X(07).
009000	05	POTN-PCT-3535-VR2-I1	PIC	X(03).
009100	01	FDR-VR3.		
009200	03	REC-TYPE-3529-VR3-I1	PIC	X(02).
009300	03	FMT-NO-3576-VR3-I1	PIC	X(01).
009400	03	FMT-CD-3579-VR3-I1	PIC	X(01).
009500	03	ADM-UNIT-0003-VR3-I1.		
009600	05	ADM-ST-0003-VR3-I1	PIC	X(02).
009700	05	ADM-DI-0003-VR3-I1	PIC	X(02).
009800	05	ADM-RA-0003-VR3-I1	PIC	X(02).
009900	05	ADM-PU-0003-VR3-I1	PIC	X(02).
010000	03	DATA-DT-6618-VR3-I1	PIC	X(06).

010100	03	ACT-CD-7350-VR3-I1	PIC	X(01).
010200	03	RNG-SITE-ID-3528-VR3-I1	PIC	X(11).
010300	03	LINE-NO-3578-VR3-I1	PIC	X(04).
010400	03	SOIL-PHASE-NAME-VR3-I1	OCCURS 2 TIMES.	
010500	05	SOIL-PHAS-4649-VR3-I1	PIC	X(05).
010600	05	SOIL-NAM-4648-VR3-I1	PIC	X(24).
010700	FD	PRINT-FILE	CODE-SET IS GBCD	
010800			LABEL RECORDS ARE STANDARD	
010900			DATA RECORD IS PRT-REC.	
011000	01	PRT-REC	PIC	X(132).
011100	SD	SORT-FILE	DATA RECORDS ARE S-KEY1, S-KEY2,	
011200			S-KEY3, S-KEY4.	
011300	01	S-KEY1.		
011400	03	SORT-KEY1-VB.		
011500	04	S-KEY-1A.		
011600	05	REC-TYPE-3529-VB-S1	PIC	X(02).
011700	05	FMT-NO-3576-VB-S1	PIC	X(01).
011800	05	FMT-CD-3579-VB-S1	PIC	X(01).
011900	04	S-KEY-2A.		
012000	05	ADM-UNIT-0003-VB-S1.		
012100	07	ADM-ST-0003-VB-S1	PIC	X(02).
012200	07	ADM-DI-0003-VB-S1	PIC	X(02).
012300	07	ADM-RA-0003-VB-S1	PIC	X(02).
012400	07	ADM-PU-0003-VB-S1	PIC	X(02).
012500	05	ALLOT-NUM-0968-VB-S1	PIC	X(04).
012600	05	PASTURE-NUM-3905-VB-S1	PIC	X(02).
012700	05	SWA-3507-VB-S1	PIC	X(04).
012800	05	TRN-NUM-3508-VB-S1	PIC	X(02).
012900	05	STRATUM-NUM-3906-VB-S1	PIC	9(04).
013000	05	CLMTC-ADJ-FCTR-3547-VB-S1	PIC	99V999.
013100	03	SORT-KEY2-VB.		
013200	05	DATA-DT-6618-VB-S1	PIC	X(06).
013300	05	ACT-CD-7350-VB-S1	PIC	X(01).
013400	05	LINE-NO-3578-VB-S1	PIC	9(04).
013500	05	SWA-PCT-3516-VB-S1	PIC	X(03).
013600	05	RNG-SITE-ID-3528-VB-S1	PIC	X(11).
013700	05	VEG-SUB-TYPE-2706-VB-S1	PIC	X(04).
013800	05	RNG-ECOL-COND-CLS-2625-VB-S1	PIC	X(01).
013900	05	PCT-SLP-3874-VB-S1	PIC	X(03).
014000	05	ASPT-6523-VB-S1	PIC	X(02).
014100	05	L-FORM-5132-VB-S1	PIC	X(03).
014200	05	SOIL-PHAS-4649-VB-S1	PIC	X(05).
014300	05	FILLER	PIC	X(26).
014400	01	S-KEY2.		
014500	03	SORT-KEY1-VR1.		
014600	05	REC-TYPE-3529-VR1-S1	PIC	X(02).
014700	05	FILLER	PIC	X(01).
014800	05	FMT-CD-3579-VR1-S1	PIC	X(01).
014900	05	ADM-ST-0003-VR1-S1	PIC	X(02).
015000	05	RNG-SITE-ID-3528-VR1-S1	PIC	X(11).
015100	05	FMT-NO-3576-VR1-S1	PIC	X(01).
015200	05	FILLER	PIC	X(15).
015300	03	SORT-KEY2-VR1.		
015400	05	DATA-DT-6618-VR1-S1	PIC	X(06).
015500	05	ACT-CD-7350-VR1-S1	PIC	X(01).
015600	05	RNG-SITE-NAM-3914-VR1-S1	PIC	X(08).
015700	05	PRECIP-ZONE-3909-VR1-S1.		

015800		07	PRECIP-ZONE-LOW-3909-VR1-S1	PIC	X(02).
015900		07	PRECIP-ZONE-HI-3909-VR1-S1	PIC	X(02).
016000		05	SSF-VAL-AVG-4818-VR1-S1	PIC	X(03).
016100		05	POTN-PPA-3930-VR1-S1	PIC	X(06)
016200			OCCURS 3 TIMES.		
016300		05	FILLER	PIC	X(29).
016400	01		S-KEY3.		
016500		03	SORT-KEY1-VR2.		
016600		05	REC-TYPE-3529-VR2-S1	PIC	X(02).
016700		05	FILLER	PIC	X(01).
016800		05	FMT-CD-3579-VR2-S1	PIC	X(01).
016900		05	ADM-ST-0003-VR2-S1	PIC	X(02).
017000		05	RNG-SITE-ID-3528-VR2-S1	PIC	X(11).
017100		05	FMT-NO-3576-VR2-S1	PIC	X(01).
017200		05	FILLER	PIC	X(15).
017300		03	SORT-KEY2-VR2.		
017400		05	DATA-DT-6618-VR2-S1	PIC	X(06).
017500		05	ACT-CD-7350-VR2-S1	PIC	X(01).
017600		05	LINE-NO-3578-VR2-S1	PIC	X(04).
017700		05	PLANT-CD-POTN-PCT-VR2-S1	OCCURS 4 TIMES.	
017800		07	PLANT-CD-2646-VR2-S1	PIC	X(07).
017900		07	POTN-PCT-3535-VR2-S1	PIC	X(03).
018000		05	FILLER	PIC	X(18).
018100	01		S-KEY4.		
018200		03	SORT-KEY1-VR3.		
018300		05	REC-TYPE-3529-VR3-S1	PIC	X(02).
018400		05	FILLER	PIC	X(01).
018500		05	FMT-CD-3579-VR3-S1	PIC	X(01).
018600		05	ADM-ST-0003-VR3-S1	PIC	X(02).
018700		05	RNG-SITE-ID-3528-VR3-S1	PIC	X(11).
018800		05	FMT-NO-3576-VR3-S1	PIC	X(01).
018900		05	FILLER	PIC	X(15).
019000		03	SORT-KEY2-VR3.		
019100		05	DATA-DT-6618-VR3-S1	PIC	X(06).
019200		05	ACT-CD-7350-VR3-S1	PIC	X(01).
019300		05	LINE-NO-3578-VR3-S1	PIC	9(04).
019400		05	SOIL-PHASE-NAME-VR3-S1	OCCURS 2 TIMES.	
019500		07	SOIL-PHAS-4649-VR3-S1	PIC	X(05).
019600		07	SOIL-NAM-4648-VR3-S1	PIC	X(24).
019700			WORKING-STORAGE SECTION.		
019800	77		INPUT1-CNT	PIC	9(07) VALUE 0.
019900	77		PAGE-CNT	PIC	9(05) VALUE 0.
020000	77		VB-CNT	PIC	9(07) VALUE 0.
020100	77		VR1-CNT	PIC	9(07) VALUE 0.
020200	77		VR2-CNT	PIC	9(07) VALUE 0.
020300	77		VR3-CNT	PIC	9(07) VALUE 0.
020400	77		LINE-CNT	PIC	9(02) VALUE 66.
020500	01		SW2-3	PIC	9(01) VALUE 0.
020600	01		VB-SW	PIC	9 VALUE 0.
020700	01		SW-DET-VR2-3	PIC	9(01) VALUE 0.
020800	01		HLD-KEY-1A-S.		
020900		03	H-REC-TYPE-S1	PIC	X(02).
021000		03	H-FMT-NO-HLD-S1	PIC	X(01).
021100		03	H-FMT-CD-HLD-S1	PIC	X(01).
021200	01		H-RNG-SITE-NUM-S1	PIC	X(11).
021300	01		HLD-REC-TYPE.		
021400		03	REC-TYPE-HLD	PIC	X(02).

021500	03	FMT-NO-HLD	PIC	X(01).	
021600	03	FMT-CD-HLD	PIC	X(01).	
021700	01	HLD-RNG-SITE-NUM	PIC	X(11).	
021800	01	MONTH-TABLE.			
021900	03	MO-TAB.			
022000	05	FILLER	PIC	X(03)	VALUE "JAN".
022100	05	FILLER	PIC	X(03)	VALUE "FEB".
022200	05	FILLER	PIC	X(03)	VALUE "MAR".
022300	05	FILLER	PIC	X(03)	VALUE "APR".
022400	05	FILLER	PIC	X(03)	VALUE "MAY".
022500	05	FILLER	PIC	X(03)	VALUE "JUN".
022600	05	FILLER	PIC	X(03)	VALUE "JUL".
022700	05	FILLER	PIC	X(03)	VALUE "AUG".
022800	05	FILLER	PIC	X(03)	VALUE "SEP".
022900	05	FILLER	PIC	X(03)	VALUE "OCT".
023000	05	FILLER	PIC	X(03)	VALUE "NOV".
023100	05	FILLER	PIC	X(03)	VALUE "DEC".
023200	03	MON REDEFINES MO-TAB	PIC	X(03)	OCCURS 12 TIMES.
023300	01	EOF-SWITCH	PIC	9	VALUE ZERO.
023400	88	EOF			VALUE 1.
023500	01	EOR-SWITCH	PIC	9	VALUE ZERO.
023600	88	EOR			VALUE 1.
023700	01	PARAMETER	PIC	X(04).	
023800	01	HLD-DT.			
023900	03	HOLD-DT.			
024000	05	YR-DT	PIC	XX.	
024100	05	MO-DT	PIC	99.	
024200	05	DY-DT	PIC	XX.	
024300	03	INV-HLD.			
024400	05	INV-NM	PIC	X(20).	
024500	05	ST-DIST-CD.			
024600	07	ST-CD-HLD	PIC	X(02).	
024700	07	DI-CD-HLD	PIC	X(02).	
024800	03	EXPL-HLD.			
024900	05	DIST-NM-HLD	PIC	X(12).	
025000	03	FUNC-HLD.			
025100	05	ST-NM-HLD	PIC	X(10).	
025200	05	FILLER	PIC	X(14).	
025300		COPY DBSTATUS IN TPCOBOLIB.			
025400	01	HDR-1.			
025500	03	FILLER	PIC	X(08)	VALUE
025600		" DATE: " .			
025700	03	HDR-MO	PIC	X(03).	
025800	03	FILLER	PIC	X(01)	VALUE SPACE.
025900	03	HDR-DA	PIC	X(02).	
026000	03	FILLER	PIC	X(04)	VALUE ", 19".
026100	03	HDR-YR	PIC	X(02).	
026200	03	FILLER	PIC	X(21)	VALUE SPACES.
026300	03	FILLER	PIC	X(47)	VALUE
026400		"US DEPT OF INTERIOR - BUREAU OF LAND MANAGEMENT".			
026500	03	FILLER	PIC	X(29)	VALUE SPACES.
026600	03	FILLER	PIC	X(07)	VALUE
026700		"PAGE: " .			
026800	03	HDR-PG	PIC	ZZ,ZZ9.	
026900	03	FILLER	PIC	X(02)	VALUE SPACES.
027000	01	HDR-2.			
027100	03	FILLER	PIC	X(8)	VALUE

027200		"STATE: "				
027300	03	HDR-ST-CD	PIC	X(02).		
027400	03	FILLER	PIC	X(04)	VALUE SPACES.	
027500	03	HDR-ST-NM	PIC	X(10).		
027600	03	FILLER	PIC	X(30)	VALUE SPACES.	
027700	03	FILLER	PIC	X(25)	VALUE	
027800		"ECOLOGICAL SITE INVENTORY".				
027900	03	FILLER	PIC	X(35)	VALUE SPACES.	
028000	03	FILLER	PIC	X(18)	VALUE	
028100		"PROGRAM: ES315P "				
028200	01	HDR-3.				
028300	03	FILLER	PIC	X(08)	VALUE	
028400		" DI: "				
028500	03	HDR-DIST-CD	PIC	X(02).		
028600	03	FILLER	PIC	X(04)	VALUE SPACES.	
028700	03	HDR-DIST-NM	PIC	X(25).		
028800	03	FILER	PIC	X(79)	VALUE SPACES.	
028900	03	FILLER	PIC	X(14)	VALUE	
029000		"PCN: PCN315 "				
029100	01	HDR-4.				
029200	03	FILLER	PIC	X(08)	VALUE	
029300		" INV: "				
029400	03	HDR-INV-CD	PIC	X(04).		
029500	03	FILLER	PIC	X(02)	VALUE SPACES.	
029600	03	HDR-INV-NM	PIC	X(25).		
029700	03	FILLER	PIC	X(16)	VALUE SPACES.	
029800	03	HDR-REC-TYPE	PIC	X(02).		
029900	03	FILLER	PIC	X(18)	VALUE	
030000		" VERIFICATION LIST".				
030100	03	FILLER	PIC	X(57)	VALUE SPACES.	
030200	01	HDR-5-VB.				
030300	03	FILLER	PIC	X(16)	VALUE	
030400		"(1-2) (3)".				
030500	03	FILLER	PIC	X(13)	VALUE SPACES.	
030600	03	FILLER	PIC	X(38)	VALUE	
030700		"(4) (5) (6) (7) (8) (9)".				
030800	03	FILLER	PIC	X(53)	VALUE	
030900		" (10) (11) (12) (13) (14) (15) (16) (17)".				
031000	03	FILLER	PIC	X(12)	VALUE	
031100		" (18) (19)".				
031200	01	HDR-6-VB.				
031300	03	FILLER	PIC	X(51)	VALUE	
031400		" REC ADMINISTRATIVE UNIT CLMTC DATE ACT LINE".				
031500	03	FILLER	PIC	X(25)	VALUE	
031600		" SWA TRN PCT RANGE".				
031700	03	FILLER	PIC	X(24)	VALUE SPACES.	
031800	03	FILLER	PIC	X(32)	VALUE	
031900		"VEG COND PCT LAND SOIL".				
032000	01	HDR-7-VB.				
032100	03	FILLER	PIC	X(51)	VALUE	
032200		"TYPE ST DI RA PU ADJFCTR YMMDD CD NUM".				
032300	03	FILLER	PIC	X(58)	VALUE	
032400		" NUM NUM SWA SITE STRAT ALLOT PAST SUBTYP CL ".				
032500	03	FILLER	PIC	X(23)	VALUE	
032600		"SLOPE SLOPE FORM SER".				
032700	01	HDR-8-VB.				
032800	03	FILLER	PIC	X(52)	VALUE	

032900		" 1-4 5-6 7-8 9-10 11-12 13-17 18-23 24 25-28 " .		
033000	03	FILLER	PIC	X(52) VALUE
033100		"29-32 33-4 35-7 38-48 49-52 53-56 57-58 59-62" .		
033200	03	FILLER	PIC	X(26) VALUE
033300		"63 64-66 67-68 69-71 72-76" .		
033400	01	HDR-9-VB .		
033500	03	FILLER	PIC	X(53) VALUE
033600		"XXXX XX XX XX XX 99.999 XXXXXX X 9999 " .		
033700	03	FILLER	PIC	X(53) VALUE
033800		"XXXX XX 999 XXXXXXXXXXXX 9999 9999 99 9999 " .		
033900	03	FILLER	PIC	X(26) VALUE
034000		"X 999 XX XXX XXXXX" .		
034100	01	HDR-10-DET-VB .		
034200	03	REC-TYPE-3529-VB-P1	PIC	X(02) .
034300	03	FMT-NO-3576-VB-P1	PIC	X(01) .
034400	03	FMT-CD-3579-VB-P1	PIC	X(01) .
034500	03	FILLER	PIC	X(02) VALUE SPACES .
034600	03	ADM-ST-0003-VB-P1	PIC	X(02) .
034700	03	FILLER	PIC	X(03) VALUE SPACES .
034800	03	ADM-DI-0003-VB-P1	PIC	X(02) .
034900	03	FILLER	PIC	X(03) VALUE SPACES .
035000	03	ADM-RA-0003-VB-P1	PIC	X(02) .
035100	03	FILLER	PIC	X(03) VALUE SPACES .
035200	03	ADM-PU-0003-VB-P1	PIC	X(02) .
035300	03	FILLER	PIC	X(04) VALUE SPACES .
035400	03	CLMTC-ADJ-FCTR-3547-VB-P1	PIC	99.999 .
035500	03	FILLER	PIC	X(02) VALUE SPACES .
035600	03	DATA-DT-6618-VB-P1	PIC	X(06) .
035700	03	FILLER	PIC	X(02) VALUE SPACES .
035800	03	ACT-CD-7350-VB-P1	PIC	X(01) .
035900	03	FILLER	PIC	X(03) VALUE SPACES .
036000	03	LINE-NO-3578-VB-P1	PIC	X(04) .
036100	03	FILLER	PIC	X(02) VALUE SPACES .
036200	03	SWA-3507-VB-P1	PIC	X(04) .
036300	03	FILLER	PIC	X(03) VALUE SPACES .
036400	03	TRN-NUM-3508-VB-P1	PIC	X(02) .
036500	03	FILLER	PIC	X(02) VALUE SPACES .
036600	03	SWA-PCT-3516-VB-P1	PIC	X(03) .
036700	03	FILLER	PIC	X(01) VALUE SPACE .
036800	03	RNG-SITE-ID-3528-VB-P1	PIC	X(11) .
036900	03	FILLER	PIC	X(02) VALUE SPACES .
037000	03	STRATUM-NUM-3906-VB-P1	PIC	X(04) .
037100	03	FILLER	PIC	X(02) VALUE SPACES .
037200	03	ALLOT-NUM-0968-VB-P1	PIC	9(04) .
037300	03	FILLER	PIC	X(03) VALUE SPACES .
037400	03	PASTURE-NUM-3905-VB-P1	PIC	9(02) .
037500	03	FILLER	PIC	X(04) VALUE SPACES .
037600	03	VEG-SUB-TYPE-2706-VB-P1	PIC	X(04) .
037700	03	FILLER	PIC	X(02) VALUE SPACES .
037800	03	RNG-ECOL-COND-CLS-2625-VB-P1	PIC	X(01) .
037900	03	FILLER	PIC	X(03) VALUE SPACES .
038000	03	PCT-SLP-3874-VB-P1	PIC	X(03) .
038100	03	FILLER	PIC	X(04) VALUE SPACES .
038200	03	ASPT-6523-VB-P1	PIC	X(02) .
038300	03	FILLER	PIC	X(03) VALUE SPACES .
038400	03	L-FORM-5132-VB-P1	PIC	X(03) .
038500	03	FILLER	PIC	X(02) VALUE SPACES .

038600		03	SOIL-PHAS-4649-VB-P1	PIC		X(05).	
038700	01		HDR-5-VR1.				
038800		03	FILLER	PIC		X(52)	VALUE
038900			"(1-2) (3) (4) (5) (6) "				
039000		03	FILLER	PIC		X(49)	VALUE
039100			"(7) (8) (9) (10)".				
039200		03	FILLER	PIC		X(31)	VALUE SPACES.
039300	01		HDR-6-VR1.				
039400		03	FILLER	PIC		X(51)	VALUE
039500			" REC ADMIN DATE ACT RANGE SITE "				
039600		03	FILLER	PIC		X(22)	VALUE
039700			"RANGE PRECIP ZONE".				
039800		03	FILLER	PIC		X(15)	VALUE SPACES.
039900		03	FILLER	PIC		X(20)	VALUE
040000			"LBS OF PROD PER ACRE".				
040100		03	FILLER	PIC		X(24)	VALUE SPACES.
040200	01		HDR-7-VR1.				
040300		03	FILLER	PIC		X(43)	VALUE
040400			"TYPE ST YMMDD CD NUMBER".				
040500		03	FILLER	PIC		X(51)	VALUE
040600			" SITE NAME LOW HI SSF AVG YR "				
040700		03	FILLER	PIC		X(24)	VALUE
040800			" FVRBL YR UNFVRBL YR".				
040900		03	FILLER	PIC		X(17)	VALUE SPACES.
041000	01		HDR-8-VR1.				
041100		03	FILLER	PIC		X(42)	VALUE
041200			" 1-4 5-6 13-18 19 20-30".				
041300		03	FILLER	PIC		X(48)	VALUE
041400			" 35-42 43-4 45-6 47-9 50-55".				
041500		03	FILLER	PIC		X(22)	VALUE
041600			" 56-61 62-67".				
041700		03	FILLER	PIC		X(20)	VALUE SPACES.
041800	01		HDR-9-VR1.				
041900		03	FILLER	PIC		X(49)	VALUE
042000			"XXXX XX XXXXXX X XXXXXXXXXXXX "				
042100		03	FILLER	PIC		X(46)	VALUE
042200			"XXXXXXXX 99 99 999 999999 "				
042300		03	FILLER	PIC		X(18)	VALUE
042400			"999999 999999".				
042500		03	FILLER	PIC		X(19)	VALUE SPACES.
042600	01		HDR-10-DET-VR1.				
042700		03	REC-TYPE-3529-VR1-P1	PIC		X(02).	
042800		03	FMT-NO-3576-VR1-P1	PIC		X(01).	
042900		03	FMT-CD-3579-VR1-P1	PIC		X(01).	
043000		03	FILLER	PIC		X(06)	VALUE SPACES.
043100		03	ADM-ST-0003-VR1-P1	PIC		X(02).	
043200		03	FILLER	PIC		X(05)	VALUE SPACES.
043300		03	DATA-DT-6618-VR1-P1	PIC		X(06).	
043400		03	FILLER	PIC		X(05)	VALUE SPACES.
043500		03	ACT-CD-7350-VR1-P1	PIC		X(01).	
043600		03	FILLER	PIC		X(05)	VALUE SPACES.
043700		03	RNG-SITE-ID-3528-VR1-P1	PIC		X(11).	
043800		03	FILLER	PIC		X(04)	VALUE SPACES.
043900		03	RNG-SITE-NAM-3914-VR1-P1	PIC		X(08).	
044000		03	FILLER	PIC		X(06)	VALUE SPACES.
044100		03	PRECIP-ZONE-LOW-3909-VR1-P1	PIC		X(02).	
044200		03	FILLER	PIC		X(06)	VALUE SPACES.





050000	03	ACT-CD-7350-VR2-P1	PIC	X(01).	
050100	03	FILLER	PIC	X(05)	VALUE SPACES.
050200	03	RNG-SITE-ID-3528-VR2-P1	PIC	X(11).	
050300	03	FILLER	PIC	X(02)	VALUE SPACES.
050400	03	LINE-NO-3578-VR2-P1	PIC	X(04).	
050500	03	FILLER	PIC	X(04)	VALUE SPACES.
050600	03	PLANT-CD1-2646-VR2-P1	PIC	X(07).	
050700	03	FILLER	PIC	X(04)	VALUE SPACES.
050800	03	POTN-PCT1-3535-VR2-P1	PIC	X(03).	
050900	03	FILLER	PIC	X(04)	VALUE SPACES.
051000	03	PLANT-CD2-2646-VR2-P1	PIC	X(07).	
051100	03	FILLER	PIC	X(04)	VALUE SPACES.
051200	03	POTN-PCT2-3535-VR2-P1	PIC	X(03).	
051300	03	FILLER	PIC	X(04)	VALUE SPACES.
051400	03	PLANT-CD3-2646-VR2-P1	PIC	X(07).	
051500	03	FILLER	PIC	X(04)	VALUE SPACES.
051600	03	POTN-PCT3-3535-VR2-P1	PIC	X(03).	
051700	03	FILLER	PIC	X(04)	VALUE SPACES.
051800	03	PLANT-CD4-2646-VR2-P1	PIC	X(07).	
051900	03	FILLER	PIC	X(04)	VALUE SPACES.
052000	03	POTN-PCT4-3535-VR2-P1	PIC	X(03).	
052100	03	FILLER	PIC	X(09)	VALUE SPACES.
052200	01	HDR-5-VR3.			
052300	03	FILLER	PIC	X(41)	VALUE
052400		"(1-2) (3) (4) (5) (6)".			
052500	03	FILLER	PIC	X(16)	VALUE SPACES.
052600	03	FILLER	PIC	X(04)	VALUE "(13)".
052700	03	FILLER	PIC	X(18)	VALUE SPACES.
052800	03	FILLER	PIC	X(04)	VALUE "(14)".
052900	03	FILLER	PIC	X(14)	VALUE SPACES.
053000	03	FILLER	PIC	X(04)	VALUE "(13)".
053100	03	FILLER	PIC	X(17)	VALUE SPACES.
053200	03	FILLER	PIC	X(04)	VALUE "(14)".
053300	03	FILLER	PIC	X(10)	VALUE SPACES.
053400	01	HDR-6-VR3.			
053500	03	FILLER	PIC	X(50)	VALUE
053600		"REC ADMIN DATE ACT RANGE SITE LINE".			
053700	03	FILLER	PIC	X(13)	VALUE
053800		" PHASE OF".			
053900	03	FILLER	PIC	X(32)	VALUE SPACES.
054000	03	FILLER	PIC	X(13)	VALUE
054100		" PHASE OF".			
054200	03	FILLER	PIC	X(28)	VALUE SPACES.
054300	01	HDR-7-VR3.			
054400	03	FILLER	PIC	X(48)	VALUE
054500		"TYPE ST YYMMDD CD NUMBER".			
054600	03	FILLER	PIC	X(38)	VALUE
054700		"NUM SOIL SERIES SOIL NAME".			
054800	03	FILLER	PIC	X(46)	VALUE
054900		" SOIL SERIES SOIL NAME".			
055000	01	HDR-8-VR3.			
055100	03	FILLER	PIC	X(52)	VALUE
055200		" 1-4 5-6 13-18 19 20-30 31-34".			
055300	03	FILLER	PIC	X(50)	VALUE
055400		" 35-39 40-63 64-68".			
055500	03	FILLER	PIC	X(30)	VALUE
055600		" 69-92".			

```

055700 01 HDR-9-VR3.
055800 03 FILLER PIC X(47) VALUE
055900 "XXXX XX XXXXXX X XXXXXXXXXXXX".
056000 03 FILLER PIC X(46) VALUE
056100 "9999 XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX".
056200 03 FILLER PIC X(39) VALUE
056300 " XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX".
056400 01 HDR-10-DET-VR3.
056500 03 REC-TYPE-3529-VR3-P1 PIC X(02).
056600 03 FMT-NO-3576-VR3-P1 PIC X(01).
056700 03 FMT-CD-3579-VR3-P1 PIC X(01).
056800 03 FILLER PIC X(06) VALUE SPACES.
056900 03 ADM-ST-0003-VR3-P1 PIC X(02).
057000 03 FILLER PIC X(05) VALUE SPACES.
057100 03 DATA-DT-6618-VR3-P1 PIC X(06).
057200 03 FILLER PIC X(05) VALUE SPACES.
057300 03 ACT-CD-7350-VR3-P1 PIC X(01).
057400 03 FILLER PIC X(05) VALUE SPACES.
057500 03 RNG-SITE-ID-3528-VR3-P1 PIC X(11).
057600 03 FILLER PIC X(02) VALUE SPACES.
057700 03 LINE-NO-3578-VR3-P1 PIC X(04).
057800 03 FILLER PIC X(06) VALUE SPACES.
057900 03 SOIL-PHAS1-4649-VR3-P1 PIC X(05).
058000 03 FILLER PIC X(07) VALUE SPACES.
058100 03 SOIL-NAM1-4648-VR3-P1 PIC X(24).
058200 03 FILLER PIC X(04) VALUE SPACES.
058300 03 SOIL-PHAS2-4649-VR3-P1 PIC X(05).
058400 03 FILLER PIC X(06) VALUE SPACES.
058500 03 SOIL-NAM2-4648-VR3-P1 PIC X(24).
058600 PROCEDURE DIVISION.
058700 START-SORT SECTION.
058800 100-SORT.
058900 SORT SORT-FILE ON ASCENDING SORT-KEY1-VB
059000 INPUT PROCEDURE PRE-SORT
059100 OUTPUT PROCEDURE POST-SORT.
059200 200-END-SECTION.
059300 FINISH DIC-DE.
059400 DISPLAY "VB-CNT " VB-CNT.
059500 DISPLAY "VR1-CNT " VR1-CNT.
059600 DISPLAY "VR2-CNT " VR2-CNT.
059700 DISPLAY "VR3-CNT " VR3-CNT.
059800 CLOSE PRINT-FILE.
059900 STOP RUN.
060000 PRE-SORT SECTION.
060100 300-HSKPNG.
060200 OPEN INPUT INPUT-FILE1.
060300 MOVE SPACES TO S-KEY1 S-KEY2 S-KEY3 S-KEY4.
060400 400-MAIN.
060500 PERFORM 500-RD-FILE1 THRU 600-EXIT-RD-FL1 UNTIL EOF.
060600 CLOSE INPUT-FILE1.
060700 GO TO 960-EXIT-VR3.
060800 500-RD-FILE1.
060900 READ INPUT-FILE1 AT END MOVE 1 TO EOF-SWITCH.
061000 IF (EOF-SWITCH = 1) GO TO 600-EXIT-RD-FL1.
061100 ADD 1 TO INPUT1-CNT.
061200 IF REC-TYPE-3529-VB-I1 = "VB"
061300 PERFORM 700-MV-VB-TO-SRT THRU 750-EXIT-VB

```

```

061400      GO TO 600-EXIT-RD-FL1.
061500      IF REC-TYPE-3529-VB-I1 = "VR" AND FMT-NO-3576-VB-I1 = "1"
061600      PERFORM 900-MV-VR1-TO-SRT THRU 920-EXIT-VR1
061700      GO TO 600-EXIT-RD-FL1.
061800      IF REC-TYPE-3529-VR2-I1 = "VR" AND FMT-NO-3576-VR1-I1 = "2"
061900      PERFORM 930-MV-VR2-TO-SRT THRU 940-EXIT-VR2
062000      GO TO 600-EXIT-RD-FL1.
062100      IF REC-TYPE-3529-VR3-I1 = "VR" AND FMT-NO-3576-VR1-I1 = "3"
062200      PERFORM 950-MV-VR3-TO-SRT THRU 960-EXIT-VR3
062300      GO TO 600-EXIT-RD-FL1.
062400 600-EXIT-RD-FL1.
062500      EXIT.
062600 700-MV-VB-TO-SRT.
062700      ADD 1 TO VB-CNT.
062800      MOVE REC-TYPE-3529-VB-I1      TO REC-TYPE-3529-VB-S1.
062900      MOVE FMT-NO-3576-VB-I1      TO FMT-NO-3576-VB-S1.
063000      MOVE FMT-CD-3579-VB-I1      TO FMT-CD-3579-VB-S1.
063100      MOVE ADM-UNIT-0003-VB-I1     TO ADM-UNIT-0003-VB-S1.
063200      MOVE CLMTC-ADJ-FCTR-3547-VB-I1 TO CLMTC-ADJ-FCTR-3547-VB-S1.
063300      MOVE DATA-DT-6618-VB-I1     TO DATA-DT-6618-VB-S1.
063400      MOVE ACT-CD-7350-VB-I1      TO ACT-CD-7350-VB-S1.
063500      MOVE LINE-NO-3578-VB-I1     TO LINE-NO-3578-VB-S1.
063600      MOVE SWA-3507-VB-I1         TO SWA-3507-VB-S1.
063700      MOVE ALLOT-NUM-0968-VB-I1    TO ALLOT-NUM-0968-VB-S1.
063800      MOVE PASTURE-NUM-3905-VB-I1   TO PASTURE-NUM-3905-VB-S1.
063900      MOVE SWA-PCT-3516-VB-I1     TO SWA-PCT-3516-VB-S1.
064000      MOVE RNG-SITE-ID-3528-VB-I1  TO RNG-SITE-ID-3528-VB-S1.
064100      MOVE VEG-SUB-TYPE-2706-VB-I1 TO VEG-SUB-TYPE-2706-VB-S1.
064200      MOVE RNG-ECOL-COND-CLS-2625-VB-I1 TO
064300      RNG-ECOL-COND-CLS-2625-VB-S1.
064400      MOVE PCT-SLP-3874-VB-I1     TO PCT-SLP-3874-VB-S1.
064500      MOVE ASPT-6523-VB-I1        TO ASPT-6523-VB-S1.
064600      MOVE L-FORM-5132-VB-I1     TO L-FORM-5132-VB-S1.
064700      MOVE SOIL-PHAS-4649-VB-I1   TO SOIL-PHAS-4649-VB-S1.
064800      MOVE TRN-NUM-3508-VB-I1     TO TRN-NUM-3508-VB-S1.
064900      MOVE STRATUM-NUM-3906-VB-I1 TO STRATUM-NUM-3906-VB-S1.
065000      MOVE CLMTC-ADJ-FCTR-3547-VB-I1 TO CLMTC-ADJ-FCTR-3547-VB-S1.
065100      RELEASE S-KEY1.
065200 750-EXIT-VB.
065300      EXIT.
065400 900-MV-VR1-TO-SRT.
065500      ADD 1 TO VR1-CNT.
065600      MOVE REC-TYPE-3529-VR1-I1    TO REC-TYPE-3529-VR1-S1.
065700      MOVE FMT-NO-3576-VR1-I1    TO FMT-NO-3576-VR1-S1.
065800      MOVE FMT-CD-3579-VR1-I1    TO FMT-CD-3579-VR1-S1.
065900      MOVE ADM-ST-0003-VR1-I1    TO ADM-ST-0003-VR1-S1.
066000      MOVE DATA-DT-6618-VR1-I1  TO DATA-DT-6618-VR1-S1.
066100      MOVE ACT-CD-7350-VR1-I1    TO ACT-CD-7350-VR1-S1.
066200      MOVE RNG-SITE-ID-3528-VR1-I1 TO RNG-SITE-ID-3528-VR1-S1.
066300      MOVE RNG-SITE-NAM-3914-VR1-I1 TO RNG-SITE-NAM-3914-VR1-S1.
066400      MOVE PRECIP-ZONE-3909-VR1-I1 TO PRECIP-ZONE-3909-VR1-S1.
066500      MOVE SSF-VAL-AVG-4818-VR1-I1 TO SSF-VAL-AVG-4818-VR1-S1.
066600      MOVE POTN-PPA-3930-VR1-I1(1) TO POTN-PPA-3930-VR1-S1(1).
066700      MOVE POTN-PPA-3930-VR1-I1(2) TO POTN-PPA-3930-VR1-S1(2).
066800      MOVE POTN-PPA-3930-VR1-I1(3) TO POTN-PPA-3930-VR1-S1(3).
066900      RELEASE S-KEY2.
067000 920-EXIT-VR1.

```

067100 EXIT.  
067200 930-MV-VR2-TO-SRT.  
067300 ADD 1 TO VR2-CNT.  
067400 MOVE REC-TYPE-3529-VR2-I1 TO REC-TYPE-3529-VR2-S1.  
067500 MOVE FMT-NO-3576-VR2-I1 TO FMT-NO-3576-VR2-S1.  
067600 MOVE FMT-CD-3579-VR2-I1 TO FMT-CD-3579-VR2-S1.  
067700 MOVE ADM-ST-0003-VR2-I1 TO ADM-ST-0003-VR2-S1.  
067800 MOVE DATA-DT-6618-VR2-I1 TO DATA-DT-6618-VR2-S1.  
067900 MOVE ACT-CD-7350-VR2-I1 TO ACT-CD-7350-VR2-S1.  
068000 MOVE RNG-SITE-ID-3528-VR2-I1 TO RNG-SITE-ID-3528-VR2-S1.  
068100 MOVE LINE-NO-3578-VR2-I1 TO LINE-NO-3578-VR2-S1.  
068200 MOVE PLANT-CD-POTN-PCT-VR2-I1(1) TO  
068300 PLANT-CD-POTN-PCT-VR2-S1(1).  
068400 MOVE PLANT-CD-POTN-PCT-VR2-I1(2) TO  
068500 PLANT-CD-POTN-PCT-VR2-S1(2).  
068600 MOVE PLANT-CD-POTN-PCT-VR2-I1(3) TO  
068700 PLANT-CD-POTN-PCT-VR2-S1(3).  
068800 MOVE PLANT-CD-POTN-PCT-VR2-I1(4) TO  
068900 PLANT-CD-POTN-PCT-VR2-S1(4).  
069000 RELEASE S-KEY3.  
069100 940-EXIT-VR2.  
069200 EXIT.  
069300 950-MV-VR3-TO-SRT.  
069400 ADD 1 TO VR3-CNT.  
069500 MOVE REC-TYPE-3529-VR3-I1 TO REC-TYPE-3529-VR3-S1.  
069600 MOVE FMT-NO-3576-VR3-I1 TO FMT-NO-3576-VR3-S1.  
069700 MOVE FMT-CD-3579-VR3-I1 TO FMT-CD-3579-VR3-S1.  
069800 MOVE ADM-ST-0003-VR3-I1 TO ADM-ST-0003-VR3-S1.  
069900 MOVE DATA-DT-6618-VR3-I1 TO DATA-DT-6618-VR3-S1.  
070000 MOVE ACT-CD-7350-VR3-I1 TO ACT-CD-7350-VR3-S1.  
070100 MOVE RNG-SITE-ID-3528-VR3-I1 TO RNG-SITE-ID-3528-VR3-S1.  
070200 MOVE FMT-NO-3576-VR3-I1 TO FMT-NO-3576-VR3-S1.  
070300 MOVE LINE-NO-3578-VR3-I1 TO LINE-NO-3578-VR3-S1.  
070400 MOVE SOIL-PHASE-NAME-VR3-I1(1) TO SOIL-PHASE-NAME-VR3-S1(1).  
070500 MOVE SOIL-PHASE-NAME-VR3-I1(2) TO SOIL-PHASE-NAME-VR3-S1(2).  
070600 RELEASE S-KEY4.  
070700 960-EXIT-VR3.  
070800 EXIT.  
070900 POST-SORT SECTION.  
071000 3050-RET-HSKPNG.  
071100 OPEN OUTPUT PRINT-FILE.  
071200 ACCEPT PARAMETER.  
071300 ACCEPT HOLD-DT FROM DATE.  
071400 MOVE YR-DT TO HDR-YR.  
071500 MOVE MON(MO-DT) TO HDR-MO.  
071600 MOVE DY-DT TO HDR-DA.  
071700 READY DIC-DE.  
071800 PERFORM 4000-VALIDATE-INV THRU 4050-EXIT-STDI.  
071900 3060-RET.  
072000 RETURN SORT-FILE AT END MOVE 1 TO EOR-SWITCH.  
072100 IF REC-TYPE-3529-VB-S1 = "VB"  
072200 MOVE 1 TO VB-SW.  
072300 PERFORM 4460-CHK-WH-REC THRU 4470-EXIT-WH-REC.  
072400 PERFORM 4100-CHK-LINE-CNT THRU 4150-EXIT-LINE-OVR50.  
072500 3070-MAIN-DRIVER.  
072600 MOVE 1 TO VB-SW.  
072700 PERFORM 4300-DET-REC-LINE THRU 4350-EXIT-DET UNTIL EOR.

```
072800      GO TO 4830-DUMMY.
072900 4000-VALIDATE-INV.
073000      MOVE PARAMETER TO DE-CD-8822-DEC  HDR-INV-CD.
073100      MOVE 3940 TO DE-NO-8801-DEC.
073200      FIND ANY CODE-DEC.
073300      MOVE DB-STATUS TO DB-STAT.
073400      IF NOT OK
073500          MOVE "UNKNOWN" TO HDR-ST-NM HDR-DIST-NM HDR-INV-NM
073600          GO TO 4050-EXIT-STD I.
073700      GET CODE-DEC.
073800      MOVE DB-STATUS TO DB-STAT.
073900      IF NOT OK
074000          DISPLAY "ES315PBD  DIDN'T GET INVN"
074100          DISPLAY DB-STAT
074200          GO TO 4050-EXIT-STD I.
074300      MOVE DE-CD-NAM-8823-DEC TO INV-HLD.
074400      MOVE INV-NM TO HDR-INV-NM.
074500 4005-VALIDATE-ST.
074600      MOVE ST-CD-HLD TO DE-CD-8822-DEC  HDR-ST-CD.
074700      MOVE 0003 TO DE-NO-8801-DEC.
074800      FIND ANY CODE-DEC.
074900      MOVE DB-STATUS TO DB-STAT.
075000      IF NOT OK
075100          MOVE "UNKNOWN" TO HDR-ST-NM
075200          GO TO 4008-EXIT-ST.
075300      GET CODE-DEC.
075400      MOVE DB-STATUS TO DB-STAT.
075500      IF NOT OK
075600          DISPLAY "ES315PBD  3  DIDN'T GET ST"
075700          DISPLAY "ES315PBD  4  " DB-STAT
075800          GO TO 4008-EXIT-ST.
075900      MOVE DE-CD-NAM-8823-DEC TO FUNC-HLD.
076000      MOVE ST-NM-HLD TO HDR-ST-NM.
076100 4008-EXIT-ST.
076200      EXIT.
076300 4010-VALIDATE-STD I.
076400      MOVE ST-DIST-CD TO DE-CD-8822-DEC.
076500      MOVE DI-CD-HLD TO HDR-DIST-CD.
076600      MOVE 0003 TO DE-NO-8801-DEC.
076700      FIND ANY CODE-DEC.
076800      MOVE DB-STATUS TO DB-STAT.
076900      IF NOT OK
077000          MOVE "UNKNOWN" TO HDR-DIST-NM
077100          GO TO 4050-EXIT-STD I.
077200      GET CODE-DEC.
077300      MOVE DB-STATUS TO DB-STAT.
077400      IF NOT OK
077500          DISPLAY "ES315PBD 5 DIDN'T GET STD I"
077600          DISPLAY "ES315PBD 6 " DB-STAT
077700          GO TO 4050-EXIT-STD I.
077800      FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
077900      MOVE DB-STATUS TO DB-STAT.
078000      IF NOT OK
078100          MOVE "UNKNOWN" TO HDR-DIST-NM
078200          GO TO 4050-EXIT-STD I.
078300      GET CODE-EXPL-DECE.
078400      MOVE DB-STATUS TO DB-STAT.
```

```

078500     IF NOT OK
078600         DISPLAY "ES315PBD 7 DIDN'T GET DIST"
078700         DISPLAY "ES315PBD 8 " DB-STAT
078800         GO TO 4050-EXIT-STDI.
078900         MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HLD
079000         MOVE DIST-NM-HLD TO HDR-DIST-NM.
079100 4050-EXIT-STDI.
079200     EXIT.
079300 4100-CHK-LINE-CNT.
079400     IF VB-SW = 0 GO TO 4150-EXIT-LINE-OVR50.
079500     IF LINE-CNT > 50 OR (HLD-REC-TYPE = "VR2D" OR "VR3D")
079600         PERFORM 4200-PRT-HDNG THRU 4250-HDNG-EXIT
079700         GO TO 4150-EXIT-LINE-OVR50.
079800 4150-EXIT-LINE-OVR50.
079900     EXIT.
080000 4200-PRT-HDNG.
080100     IF (HLD-REC-TYPE = "VB1D" OR "VR1D")
080200         PERFORM 4210-START-HDR THRU 4228-EXIT-HDR-VR2-3
080300         GO TO 4230-PRT-SPACES.
080400     IF (LINE-CNT > 50 AND SW2-3 = 1) OR
080500         (LINE-CNT > 50)
080600         MOVE 1 TO SW2-3
080700         MOVE 1 TO SW-DET-VR2-3
080800         PERFORM 4210-START-HDR THRU 4228-EXIT-HDR-VR2-3
080900         GO TO 4230-PRT-SPACES.
081000     IF (SW2-3 = 1)
081100         MOVE 0 TO SW2-3
081200         PERFORM 4222-CHK-VR THRU 4228-EXIT-HDR-VR2-3
081300         MOVE 0 TO SW-DET-VR2-3
081400         GO TO 4230-PRT-SPACES.
081500     GO TO 4230-PRT-SPACES.
081600 4210-START-HDR.
081700     ADD 1 TO PAGE-CNT.
081800     MOVE PAGE-CNT TO HDR-PG.
081900     WRITE PRT-REC FROM HDR-1 AFTER ADVANCING PAGE.
082000     WRITE PRT-REC FROM HDR-2 AFTER ADVANCING 1 LINES.
082100     WRITE PRT-REC FROM HDR-3 AFTER ADVANCING 1 LINES.
082200     MOVE 2 TO LINE-CNT.
082300 4220-CHK-WHAT-REC.
082400     IF HLD-REC-TYPE = "VB1D"
082500         MOVE "VB" TO HDR-REC-TYPE
082600         WRITE PRT-REC FROM HDR-4 AFTER ADVANCING 1 LINES
082700         WRITE PRT-REC FROM HDR-5-VB AFTER ADVANCING 2 LINES
082800         WRITE PRT-REC FROM HDR-6-VB AFTER ADVANCING 1 LINES
082900         WRITE PRT-REC FROM HDR-7-VB AFTER ADVANCING 1 LINES
083000         WRITE PRT-REC FROM HDR-8-VB AFTER ADVANCING 1 LINES
083100         WRITE PRT-REC FROM HDR-9-VB AFTER ADVANCING 1 LINES
083200         ADD 7 TO LINE-CNT
083300         GO TO 4228-EXIT-HDR-VR2-3.
083400 4222-CHK-VR.
083500     IF (REC-TYPE-HLD = "VR" AND SW2-3 = 1)
083600         MOVE "VR" TO HDR-REC-TYPE
083700         WRITE PRT-REC FROM HDR-4 AFTER ADVANCING 1 LINES
083800         ADD 1 TO LINE-CNT.
083900         IF SW-DET-VR2-3 = 1 NEXT SENTENCE
084000         ELSE GO TO 4228-EXIT-HDR-VR2-3.
084100     IF HLD-REC-TYPE = "VR1D"

```

```

084200      WRITE PRT-REC FROM HDR-5-VR1 AFTER ADVANCING 2 LINES
084300      WRITE PRT-REC FROM HDR-6-VR1 AFTER ADVANCING 1 LINES
084400      WRITE PRT-REC FROM HDR-7-VR1 AFTER ADVANCING 1 LINES
084500      WRITE PRT-REC FROM HDR-8-VR1 AFTER ADVANCING 1 LINES
084600      WRITE PRT-REC FROM HDR-9-VR1 AFTER ADVANCING 1 LINES
084700      ADD 6 TO LINE-CNT
084800      GO TO 4228-EXIT-HDR-VR2-3.
084900 4225-CHK-VR2-3.
085000      IF HLD-REC-TYPE = "VR2D"
085100          WRITE PRT-REC FROM HDR-5-VR2 AFTER ADVANCING 2 LINES
085200          WRITE PRT-REC FROM HDR-6-VR2 AFTER ADVANCING 1 LINES
085300          WRITE PRT-REC FROM HDR-7-VR2 AFTER ADVANCING 1 LINES
085400          WRITE PRT-REC FROM HDR-8-VR2 AFTER ADVANCING 1 LINES
085500          WRITE PRT-REC FROM HDR-9-VR2 AFTER ADVANCING 1 LINES
085600          ADD 6 TO LINE-CNT
085700          GO TO 4228-EXIT-HDR-VR2-3.
085800      IF HLD-REC-TYPE = "VR3D"
085900          WRITE PRT-REC FROM HDR-5-VR3 AFTER ADVANCING 2 LINES
086000          WRITE PRT-REC FROM HDR-6-VR3 AFTER ADVANCING 1 LINES
086100          WRITE PRT-REC FROM HDR-7-VR3 AFTER ADVANCING 1 LINES
086200          WRITE PRT-REC FROM HDR-8-VR3 AFTER ADVANCING 1 LINES
086300          WRITE PRT-REC FROM HDR-9-VR3 AFTER ADVANCING 1 LINES
086400          ADD 6 TO LINE-CNT
086500          GO TO 4228-EXIT-HDR-VR2-3.
086600 4228-EXIT-HDR-VR2-3.
086700      EXIT.
086800 4230-PRT-SPACES.
086900      IF SW-DET-VR2-3 = 0 GO TO 4250-HDNG-EXIT.
087000      MOVE SPACES TO PRT-REC.
087100      WRITE PRT-REC AFTER ADVANCING 1 LINES.
087200      ADD 1 TO LINE-CNT.
087300 4250-HDNG-EXIT.
087400      EXIT.
087500 4300-DET-REC-LINE.
087600      IF S-KEY-1A = "VB1D"
087700          MOVE S-KEY-1A TO HLD-KEY-1A-S
087800      ELSE
087900          MOVE REC-TYPE-3529-VR1-S1 TO H-REC-TYPE-S1
088000          MOVE FMT-NO-3576-VR1-S1 TO H-FMT-NO-HLD-S1
088100          MOVE FMT-CD-3579-VR1-S1 TO H-FMT-CD-HLD-S1
088200          MOVE RNG-SITE-ID-3528-VR1-S1 TO H-RNG-SITE-NUM-S1.
088300      IF (HLD-KEY-1A-S NOT = HLD-REC-TYPE)
088400          OR (HLD-KEY-1A-S = "VR1D" AND HLD-REC-TYPE = "VR1D")
088500          GO TO 4305-NOT-EQ.
088600          MOVE 0 TO SW2-3
088700          MOVE 0 TO SW-DET-VR2-3
088800          PERFORM 4400-PRNT-DET-LINE THRU 4450-EXIT-CHK-REC-TYP
088900          GO TO 4320-RET-SORT.
089000 4305-NOT-EQ.
089100      IF S-KEY-1A = "9999" GO TO 4350-EXIT-DET.
089200      IF (HLD-REC-TYPE = "VB1D") AND (REC-TYPE-3529-VR2-S1 = "VR"
089300          AND FMT-NO-3576-VR1-S1 = "1")
089400          MOVE 0 TO PAGE-CNT.
089500      IF (H-RNG-SITE-NUM-S1 NOT = HLD-RNG-SITE-NUM)
089600          MOVE 66 TO LINE-CNT.
089700      PERFORM 4460-CHK-WH-REC THRU 4470-EXIT-WH-REC.
089800      IF (HLD-REC-TYPE = "VB1D" OR "VR1D")

```



```

089900         MOVE 66 TO LINE-CNT.
090000         MOVE "1" TO SW2-3.
090100         MOVE 1 TO SW-DET-VR2-3
090200         PERFORM 4400-PRNT-DET-LINE THRU 4450-EXIT-CHK-REC-TYP.
090300 4320-RET-SORT.
090400         RETURN SORT-FILE AT END MOVE 1 TO EOR-SWITCH
090500         MOVE "9999" TO S-KEY-1A.
090600         IF EOR-SWITCH = 1 GO TO 4350-EXIT-DET.
090700 4350-EXIT-DET.
090800         EXIT.
090900 4400-PRNT-DET-LINE.
091000         PERFORM 4100-CHK-LINE-CNT THRU 4150-EXIT-LINE-OVR50.
091100         IF S-KEY-1A = "VB1D"
091200         PERFORM 4500-PRNT-VB THRU 4800-EXIT-PRT-DET
091300         GO TO 4450-EXIT-CHK-REC-TYP.
091400         IF REC-TYPE-3529-VR1-S1 = "VR" AND FMT-NO-3576-VR1-S1 = "1"
091500         PERFORM 4550-PRNT-VR1 THRU 4800-EXIT-PRT-DET
091600         GO TO 4450-EXIT-CHK-REC-TYP.
091700 4410-CHK-2-3.
091800         IF REC-TYPE-3529-VR2-S1 = "VR" AND FMT-NO-3576-VR2-S1 = "2"
091900         PERFORM 4600-PRNT-VR2 THRU 4800-EXIT-PRT-DET
092000         GO TO 4450-EXIT-CHK-REC-TYP.
092100         IF REC-TYPE-3529-VR3-S1 = "VR" AND FMT-NO-3576-VR3-S1 = "3"
092200         PERFORM 4650-PRNT-VR3 THRU 4800-EXIT-PRT-DET
092300         GO TO 4450-EXIT-CHK-REC-TYP.
092400 4450-EXIT-CHK-REC-TYP.
092500         EXIT.
092600 4460-CHK-WH-REC.
092700         IF S-KEY-1A = "VB1D"
092800         MOVE REC-TYPE-3529-VB-S1 TO REC-TYPE-HLD
092900         MOVE FMT-NO-3576-VB-S1 TO FMT-NO-HLD
093000         MOVE FMT-CD-3579-VB-S1 TO FMT-CD-HLD
093100         GO TO 4470-EXIT-WH-REC.
093200         IF (REC-TYPE-3529-VR1-S1 = "VR") AND
093300         (FMT-NO-3576-VR1-S1 = "1"
093400         OR "2" OR "3")
093500         MOVE REC-TYPE-3529-VR1-S1 TO HLD-REC-TYPE
093600         MOVE FMT-NO-3576-VR1-S1 TO FMT-NO-HLD
093700         MOVE FMT-CD-3579-VR1-S1 TO FMT-CD-HLD
093800         MOVE RNG-SITE-ID-3528-VR1-S1 TO
093900         HLD-RNG-SITE-NUM.
094000 4470-EXIT-WH-REC.
094100         EXIT.
094200 4500-PRNT-VB.
094300         MOVE REC-TYPE-3529-VB-S1 TO REC-TYPE-3529-VB-P1.
094400         MOVE FMT-NO-3576-VB-S1 TO FMT-NO-3576-VB-P1.
094500         MOVE FMT-CD-3579-VB-S1 TO FMT-CD-3579-VB-P1.
094600         MOVE ADM-ST-0003-VB-S1 TO ADM-ST-0003-VB-P1.
094700         MOVE ADM-DI-0003-VB-S1 TO ADM-DI-0003-VB-P1.
094800         MOVE ADM-RA-0003-VB-S1 TO ADM-RA-0003-VB-P1.
094900         MOVE ADM-PU-0003-VB-S1 TO ADM-PU-0003-VB-P1.
095000         MOVE CLMTC-ADJ-FCTR-3547-VB-S1 TO CLMTC-ADJ-FCTR-3547-VB-P1.
095100         MOVE DATA-DT-6618-VB-S1 TO DATA-DT-6618-VB-P1.
095200         MOVE ACT-CD-7350-VB-S1 TO ACT-CD-7350-VB-P1.
095300         MOVE LINE-NO-3578-VB-S1 TO LINE-NO-3578-VB-P1.
095400         MOVE SWA-3507-VB-S1 TO SWA-3507-VB-P1.
095500         MOVE TRN-NUM-3508-VB-S1 TO TRN-NUM-3508-VB-P1.

```

```

095600      MOVE SWA-PCT-3516-VB-S1      TO SWA-PCT-3516-VB-P1.
095700      MOVE RNG-SITE-ID-3528-VB-S1 TO RNG-SITE-ID-3528-VB-P1.
095800      MOVE STRATUM-NUM-3906-VB-S1 TO STRATUM-NUM-3906-VB-P1.
095900      MOVE ALLOT-NUM-0968-VB-S1    TO ALLOT-NUM-0968-VB-P1.
096000      MOVE PASTURE-NUM-3905-VB-S1 TO PASTURE-NUM-3905-VB-P1.
096100      MOVE VEG-SUB-TYPE-2706-VB-S1 TO VEG-SUB-TYPE-2706-VB-P1.
096200      MOVE RNG-ECOL-COND-CLS-2625-VB-S1 TO
096300          RNG-ECOL-COND-CLS-2625-VB-P1.
096400      MOVE PCT-SLP-3874-VB-S1      TO PCT-SLP-3874-VB-P1.
096500      MOVE ASPT-6523-VB-S1        TO ASPT-6523-VB-P1.
096600      MOVE L-FORM-5132-VB-S1      TO L-FORM-5132-VB-P1.
096700      MOVE SOIL-PHAS-4649-VB-S1   TO SOIL-PHAS-4649-VB-P1.
096800      WRITE PRT-REC FROM HDR-10-DET-VB AFTER ADVANCING 2 LINES.
096900      ADD 2 TO LINE-CNT.
097000      GO TO 4800-EXIT-PRT-DET.
097100      4550-PRNT-VR1.
097200      MOVE REC-TYPE-3529-VR1-S1    TO REC-TYPE-3529-VR1-P1.
097300      MOVE FMT-NO-3576-VR1-S1     TO FMT-NO-3576-VR1-P1.
097400      MOVE FMT-CD-3579-VR1-S1     TO FMT-CD-3579-VR1-P1.
097500      MOVE ADM-ST-0003-VR1-S1     TO ADM-ST-0003-VR1-P1.
097600      MOVE DATA-DT-6618-VR1-S1   TO DATA-DT-6618-VR1-P1.
097700      MOVE ACT-CD-7350-VR1-S1     TO ACT-CD-7350-VR1-P1.
097800      MOVE RNG-SITE-ID-3528-VR1-S1 TO RNG-SITE-ID-3528-VR1-P1.
097900      MOVE RNG-SITE-NAM-3914-VR1-S1 TO RNG-SITE-NAM-3914-VR1-P1.
098000      MOVE PRECIP-ZONE-LOW-3909-VR1-S1 TO
098100          PRECIP-ZONE-LOW-3909-VR1-P1.
098200      MOVE PRECIP-ZONE-HI-3909-VR1-S1 TO
098300          PRECIP-ZONE-HI-3909-VR1-P1.
098400      MOVE SSF-VAL-AVG-4818-VR1-S1 TO SSF-VAL-AVG-4818-VR1-P1.
098500      MOVE POTN-PPA-3930-VR1-S1(1) TO POTN-PPA1-3930-VR1-P1.
098600      MOVE POTN-PPA-3930-VR1-S1(2) TO POTN-PPA2-3930-VR1-P1.
098700      MOVE POTN-PPA-3930-VR1-S1(3) TO POTN-PPA3-3930-VR1-P1.
098800      WRITE PRT-REC FROM HDR-10-DET-VR1 AFTER ADVANCING 2 LINES.
098900      ADD 2 TO LINE-CNT.
099000      GO TO 4800-EXIT-PRT-DET.
099100      4600-PRNT-VR2.
099200      MOVE REC-TYPE-3529-VR2-S1    TO REC-TYPE-3529-VR2-P1.
099300      MOVE FMT-NO-3576-VR2-S1     TO FMT-NO-3576-VR2-P1.
099400      MOVE FMT-CD-3579-VR2-S1     TO FMT-CD-3579-VR2-P1.
099500      MOVE ADM-ST-0003-VR2-S1     TO ADM-ST-0003-VR2-P1.
099600      MOVE DATA-DT-6618-VR2-S1   TO DATA-DT-6618-VR2-P1.
099700      MOVE ACT-CD-7350-VR2-S1     TO ACT-CD-7350-VR2-P1.
099800      MOVE RNG-SITE-ID-3528-VR2-S1 TO RNG-SITE-ID-3528-VR2-P1.
099900      MOVE LINE-NO-3578-VR2-S1    TO LINE-NO-3578-VR2-P1.
100000     MOVE PLANT-CD-2646-VR2-S1(1) TO PLANT-CD1-2646-VR2-P1.
100100     MOVE POTN-PCT-3535-VR2-S1(1) TO POTN-PCT1-3535-VR2-P1.
100200     MOVE PLANT-CD-2646-VR2-S1(2) TO PLANT-CD2-2646-VR2-P1.
100300     MOVE POTN-PCT-3535-VR2-S1(2) TO POTN-PCT2-3535-VR2-P1.
100400     MOVE PLANT-CD-2646-VR2-S1(3) TO PLANT-CD3-2646-VR2-P1.
100500     MOVE POTN-PCT-3535-VR2-S1(3) TO POTN-PCT3-3535-VR2-P1.
100600     MOVE PLANT-CD-2646-VR2-S1(4) TO PLANT-CD4-2646-VR2-P1.
100700     MOVE POTN-PCT-3535-VR2-S1(4) TO POTN-PCT4-3535-VR2-P1.
100800     WRITE PRT-REC FROM HDR-10-DET-VR2 AFTER ADVANCING 2 LINES.
100900     ADD 2 TO LINE-CNT.
101000     GO TO 4800-EXIT-PRT-DET.
101100     4650-PRNT-VR3.
101200     MOVE REC-TYPE-3529-VR3-S1    TO REC-TYPE-3529-VR3-P1.

```

```

101300 MOVE FMT-NO-3576-VR3-S1 TO FMT-NO-3576-VR3-P1.
101400 MOVE FMT-CD-3579-VR3-S1 TO FMT-CD-3579-VR3-P1.
101500 MOVE ADM-ST-0003-VR3-S1 TO ADM-ST-0003-VR3-P1.
101600 MOVE DATA-DT-6618-VR3-S1 TO DATA-DT-6618-VR3-P1.
101700 MOVE ACT-CD-7350-VR3-S1 TO ACT-CD-7350-VR3-P1.
101800 MOVE RNG-SITE-ID-3528-VR3-S1 TO RNG-SITE-ID-3528-VR3-P1.
101900 MOVE LINE-NO-3578-VR3-S1 TO LINE-NO-3578-VR3-P1.
102000 MOVE SOIL-PHAS-4649-VR3-S1(1) TO SOIL-PHAS1-4649-VR3-P1.
102100 MOVE SOIL-NAM-4648-VR3-S1(1) TO SOIL-NAM1-4648-VR3-P1.
102200 MOVE SOIL-PHAS-4649-VR3-S1(2) TO SOIL-PHAS2-4649-VR3-P1.
102300 MOVE SOIL-NAM-4648-VR3-S1(2) TO SOIL-NAM2-4648-VR3-P1.
102400 WRITE PRT-REC FROM HDR-10-DET-VR3 AFTER ADVANCING 2 LINES.
102500 ADD 2 TO LINE-CNT.
102600 4800-EXIT-PRT-DET.
102700 EXIT.
102800 DUMMY-SECTION.
102900 4830-DUMMY.
103000 EXIT.
103100 END-OF-JOB.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES320E.
000300* EDIT/UPDATE OF STRATIFICATION (VB) AND
000400* ECOLOGICAL SITE (VR) FORMATS.
000500*
000600 AUTHOR. CORA FISCHER 037.
000700 INSTALLATION. BLM-DENVER.
000800 DATE-WRITTEN. 08/05/79.
000900 DATE-COMPILED.
001000* BUILDS VB-WORK-FILE FROM VB RECORDS, BUILDS
001100* VM-WORK-FILE FROM VR1D RECORDS.
001200 ENVIRONMENT DIVISION.
001300 CONFIGURATION SECTION.
001400 SOURCE-COMPUTER. LEVEL-66-ASCII.
001500 OBJECT-COMPUTER. LEVEL-66-ASCII SEQUENCE IS EBCDIC.
001600 INPUT-OUTPUT SECTION.
001700 FILE-CONTROL.
001800 SELECT VR-VB-OT-FILE ASSIGN TO D1
001900 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000 SELECT VM-WORK-FILE ASSIGN TO U1
002100 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002200 SELECT VB-WORK-FILE ASSIGN TO B1
002300 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002400 SELECT VR-VB-IN-FILE ASSIGN TO I1
002500 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002600 SELECT PRINTFILE ASSIGN TO P1
002700 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002800 DATA DIVISION.
002900 SUB-SCHEMA SECTION.
003000 DB CODVAL2 WITHIN BLMDIC.
003100 FILE SECTION.
003200 FD VR-VB-IN-FILE
003300 CODE-SET IS GBCD
003400 LABEL RECORDS ARE STANDARD
003500 DATA RECORD IS VR-VB-IN-REC.
003600 01 VR-VB-IN-REC.
003700 03 REC-TYP-I1 PIC X(4).

```

003800 03 FILLER PIC X(58).  
003900 03 RNG-ECOL-COND-CLS-I1 PIC X.  
004000 03 FILLER PIC X(32).  
004100 FD VB-WORK-FILE  
004200 CODE-SET IS GBCD  
004300 LABEL RECORDS ARE STANDARD  
004400 DATA RECORD IS VB-WORK-REC.  
004500 01 VB-WORK-REC PIC X(96).  
004600 FD VM-WORK-FILE  
004700 CODE-SET IS GBCD  
004800 LABEL RECORDS ARE STANDARD  
004900 DATA RECORD IS VM-WORK-REC.  
005000 01 VM-WORK-REC.  
005100 03 REC-TYP-U1 PIC X(4).  
005200 03 SD-U1.  
005300 05 ST-U1 PIC XX.  
005400 05 DS-U1 PIC XX.  
005500 03 DATE-U1 PIC X(6).  
005600 03 ACT-U1 PIC X.  
005700 03 STK-RATE-U1 PIC X.  
005800 03 RNG-SITE-U1 PIC X(11).  
005900 03 FILLER PIC X(57).  
006000 FD VR-VB-OT-FILE  
006100 CODE-SET IS GBCD  
006200 LABEL RECORDS ARE STANDARD  
006300 DATA RECORD IS VR-VB-OT-REC.  
006400 01 VR-VB-OT-REC PIC X(96).  
006500 FD PRINTFILE  
006600 CODE-SET IS GBCD  
006700 LABEL RECORDS ARE STANDARD  
006800 DATA RECORD IS PRT-REC.  
006900 01 PRT-REC PIC X(132).  
007000 WORKING-STORAGE SECTION.  
007100 77 I PIC 9 VALUE ZERO.  
007200 77 VB-IN-CNT PIC 99 VALUE ZERO,  
007300 77 RNG-SITE-HLD PIC X(11) VALUE SPACE.  
007400 77 ERR-FREE PIC 9 VALUE 0.  
007500 77 RNGE-SITE-SAME PIC 9 VALUE 0.  
007600 77 SWITCH-LINE1 PIC 9 VALUE ZERO.  
007700 77 PAGE-CTR PIC 9(6) VALUE ZERO.  
007800 77 LINE-CTR PIC 99 VALUE ZERO.  
007900 77 INPUT-CTR PIC 9(5) VALUE ZERO.  
008000 77 GOOD-CTR PIC 9(5) VALUE ZERO.  
008100 77 ERROR-CTR PIC 9(5) VALUE ZERO.  
008200 77 DRP-ERR-CTR COMP-6 VALUE ZERO.  
008300 77 UNKWN-LITRL PIC X(15) VALUE "UNKNOWN".  
008400 77 DB-ERR-PARA PIC X(4).  
008500 77 RNG-SITE-TALLY COMP-6.  
008600 77 PLU-HOLD PIC X(2).  
008700 01 NAMES-HOLD.  
008800 05 FUNC-HLD.  
008900 10 ST-NM-HLD PIC X(10).  
009000 10 FILLER PIC X.  
009100 05 EXPL-HLD.  
009200 10 DIST-NM-HLD PIC X(10).  
009300 10 FILLER PIC X.  
009400 10 RA-NM-HLD PIC X(12).

009500		10	FILLER	PIC	X.	
009600		10	PU-NM-HLD	PIC	X(15).	
009700		10	FILLER	PIC	X.	
009800	01		REC-TYP-HLD-2.			
009900		05	H-REC-TYP-VB1Z	PIC	XX.	
010000		05	H-FMT-NUM-VB1Z	PIC	9(1).	
010100		05	H-FORMAT-CD-VB1Z	PIC	X(1).	
010200	01		HLD-ST	PIC	XX.	
010300	01		HLD-DIST	PIC	XX.	
010400	01		HLD-RA	PIC	XX.	
010500	01		HLD-PU	PIC	XX.	
010600	01		HLD-CLMTC-ADJ-FCTR	PIC	X(5).	
010700	01		HLD-RNG-SITE-ID	PIC	X(11).	
010800	01		EOF-SWITCH	PIC 9	VALUE ZERO.	
010900		88	EOF	VALUE 1.		
011000	01		HEADING-SWITCH	PIC 9	VALUE ZERO.	
011100		88	ST-DIST-PLU-CHANGE	VALUE 1.		
011200			COPY DBSTATUS IN TPCOBOLIB.			
011300	01		AS-OF-DATE.			
011400		03	AS-OF-YR	PIC X(02).		
011500		03	AS-OF-MO	PIC 9(02).		
011600		03	AS-OF-DA	PIC X(02).		
011700	01		MONTH-TABLE.			
011800		03	MO-TAB.			
011900		05	FILLER	PIC X(03)	VALUE "JAN".	
012000		05	FILLER	PIC X(03)	VALUE "FEB".	
012100		05	FILLER	PIC X(03)	VALUE "MAR".	
012200		05	FILLER	PIC X(03)	VALUE "APR".	
012300		05	FILLER	PIC X(03)	VALUE "MAY".	
012400		05	FILLER	PIC X(03)	VALUE "JUN".	
012500		05	FILLER	PIC X(03)	VALUE "JUL".	
012600		05	FILLER	PIC X(03)	VALUE "AUG".	
012700		05	FILLER	PIC X(03)	VALUE "SEP".	
012800		05	FILLER	PIC X(03)	VALUE "OCT".	
012900		05	FILLER	PIC X(03)	VALUE "NOV".	
013000		05	FILLER	PIC X(03)	VALUE "DEC".	
013100		03	MON REDEFINES MO-TAB	PIC X(03)	OCCURS 12 TIMES.	
013200	01		HDR-1.			
013300		05	FILLER	PIC	X(4)	VALUE SPACES.
013400		05	FILLER	PIC	X(5)	VALUE
013500			"PCN: ".			
013600		05	HDR-PCN	PIC	X(8).	
013700		05	FILLER	PIC	X(7)	VALUE
013800			" AS OF ".			
013900		05	HDR-DD	PIC	XX.	
014000		05	FILLER	PIC	X	VALUE SPACE.
014100		05	HDR-MMM	PIC	XXX.	
014200		05	FILLER	PIC	X	VALUE SPACE.
014300		05	HDR-YR	PIC	XX.	
014400		05	FILLER	PIC	X(09)	VALUE SPACES.
014500		05	FILLER	PIC	X(48)	VALUE
014600			"USDI- BUR OF LAND MGT	ECOLOGICAL SITE INVENTORY".		
014700		05	FILLER	PIC	X(29)	VALUE SPACES.
014800		05	FILLER	PIC	X(7)	VALUE
014900			"PAGE: ".			
015000		05	HDR-PG	PIC	ZZZZZ9.	
015100	01		HDR-2.			

015200	05	FILLER		PIC	X(17)	VALUE SPACES.
015300	05	FILLER		PIC	X(8)	VALUE
015400		"STATE: "				
015500	05	HDR-ST-NM		PIC	X(15).	
015600	05	FILLER		PIC	X(16)	VALUE SPACES.
015700	05	FILLER		PIC	X(7)	VALUE
015800		"DIST: "				
015900	05	HDR-DIST-NM		PIC	X(15).	
016000	05	FILLER		PIC	X(15)	VALUE SPACES.
016100	05	HDR-VB-EDIT		PIC	X(22)	VALUE
016200		"VB EDIT ERROR LISTING".				
016300	05	FILLER		PIC	X(17)	VALUE SPACES.
016400	01	VB-HDR-REC1.				
016500	05	FILLER		PIC	X(10)	VALUE SPACES.
016600	05	FILLER		PIC	X(33)	VALUE
016700		"REC-TYP	ST		DIST".	
016800	05	FILLER		PIC	X(29)	VALUE
016900	"	RA		PLU	".	
017000	05	FILLER		PIC	X(36)	VALUE
017100	"	CLIMATIC ADJ			DATE".	
017200	05	FILLER		PIC	X(24)	VALUE
017300	"	ACTN			".	
017400	01	VB-HDR-REC2.				
017500	05	FILLER		PIC	X(12)	VALUE SPACES.
017600	05	FILLER		PIC	X(31)	VALUE
017700	"1-4		5-6		7-8".	
017800	05	FILLER		PIC	X(43)	VALUE
017900	"	9-10		11-12	".	
018000	05	FILLER		PIC	X(35)	VALUE
018100	"13-17		18-23		24".	
018200	05	FILLER		PIC	X(11)	VALUE SPACES.
018300	01	VB-HDR-REC3.				
018400	05	FILLER		PIC	X(12)	VALUE SPACES.
018500	05	FILLER		PIC	X(4)	VALUE "XXXX".
018600	05	FILLER		PIC	X(11)	VALUE SPACES.
018700	05	FILLER		PIC	XX	VALUE "XX".
018800	05	FILLER		PIC	X(11)	VALUE SPACES.
018900	05	FILLER		PIC	XX	VALUE "XX".
019000	05	FILLER		PIC	X(11)	VALUE SPACES.
019100	05	FILLER		PIC	XX	VALUE "XX".
019200	05	FILLER		PIC	X(13)	VALUE SPACES.
019300	05	FILLER		PIC	XX	VALUE "XX".
019400	05	FILLER		PIC	X(16)	VALUE SPACES.
019500	05	FILLER		PIC	X(5)	VALUE
019600		"XXXXX".				
019700	05	FILLER		PIC	X(12)	VALUE SPACES.
019800	05	FILLER		PIC	X(6)	VALUE
019900		"XXXXXX".				
020000	05	FILLER		PIC	X(11)	VALUE SPACES.
020100	05	FILLER		PIC	X	VALUE "X".
020200	05	FILLER		PIC	X(11)	VALUE SPACES.
020300	01	VB-DET-LN1.				
020400	05	FILLER		PIC	X(12)	VALUE SPACES.
020500	05	REC-TYP-P		PIC	XXXX.	
020600	05	FILLER		PIC	X(11)	VALUE SPACES.
020700	05	ST-P		PIC	XX.	
020800	05	FILLER		PIC	X(11)	VALUE SPACES.

020900	05	DIST-P	PIC	XX.	
021000	05	FILLER	PIC	X(11)	VALUE SPACES.
021100	05	RS-P	PIC	XX.	
021200	05	FILLER	PIC	X(13)	VALUE SPACES.
021300	05	PU-P	PIC	XX.	
021400	05	FILLER	PIC	X(16)	VALUE SPACES.
021500	05	CLIMATIC-ADJ-P	PIC	X(5).	
021600	05	FILLER	PIC	X(12)	VALUE SPACES.
021700	05	DATE-P	PIC	X(6).	
021800	05	FILLER	PIC	X(11)	VALUE SPACES.
021900	05	ACTN-P	PIC	X.	
022000	05	FILLER	PIC	X(11)	VALUE SPACES.
022100	01	VB-ASTERISK-LN1.			
022200	05	FILLER	PIC	X(12)	VALUE SPACES.
022300	05	REC-TYP-ERR	PIC	XXXX.	
022400	05	FILLER	PIC	X(11)	VALUE SPACES.
022500	05	ST-ERR	PIC	XX.	
022600	05	FILLER	PIC	X(11)	VALUE SPACES.
022700	05	DIST-ERR	PIC	XX.	
022800	05	FILLER	PIC	X(11)	VALUE SPACES.
022900	05	RS-ERR	PIC	XX.	
023000	05	FILLER	PIC	X(13)	VALUE SPACES.
023100	05	PU-ERR	PIC	XX.	
023200	05	FILLER	PIC	X(16)	VALUE SPACES.
023300	05	CLIMATIC-ADJ-ERR	PIC	X(5).	
023400	05	FILLER	PIC	X(12)	VALUE SPACES.
023500	05	DATE-ERR	PIC	X(6).	
023600	05	FILLER	PIC	X(11)	VALUE SPACES.
023700	05	ACTN-ERR	PIC	X.	
023800	05	FILLER	PIC	X(11)	VALUE SPACES.
023900	01	VB-HDR-REC4.			
024000	05	FILLER	PIC	X(5)	VALUE SPACES.
024100	05	FILLER	PIC	X(40)	VALUE
024200		"LIN NUM SWA TRNSCT % SWA RNGE SITE "			
024300	05	FILLER	PIC	X(42)	VALUE
024400		"STRTUM ALLOT PASTURE VEG SUB COND CL "			
024500	05	FILLER	PIC	X(45)	VALUE
024600		"% SLOPE SLOPE ASP LAND FORM SOIL PHASE "			
024700	01	VB-HDR-REC5.			
024800	05	FILLER	PIC	X(6)	VALUE SPACES.
024900	05	FILLER	PIC	X(47)	VALUE
025000		"25-28 29-32 33-34 35-37 38-48 49-52 "			
025100	05	FILLER	PIC	X(40)	VALUE
025200		"53-56 57-58 59-62 63 64-66"			
025300	05	FILLER	PIC	X(39)	VALUE
025400		" 67-68 69-71 72-76 "			
025500	01	VB-HDR-REC6.			
025600	05	FILLER	PIC	X(7)	VALUE SPACES.
025700	05	FILLER	PIC	X(4)	VALUE "XXXX".
025800	05	FILLER	PIC	XXX	VALUE SPACES.
025900	05	FILLER	PIC	X(4)	VALUE "XXXX".
026000	05	FILLER	PIC	X(4)	VALUE SPACES.
026100	05	FILLER	PIC	XX	VALUE "XX".
026200	05	FILLER	PIC	X(4)	VALUE SPACES.
026300	05	FILLER	PIC	XXX	VALUE "XXX".
026400	05	FILLER	PIC	XX	VALUE SPACES.
026500	05	FILLER	PIC	X(11)	VALUE

026600		"XXXXXXXXXXXX".			
026700	05	FILLER	PIC	XXX	VALUE SPACES.
026800	05	FILLER	PIC	XXX	VALUE "XXX".
026900	05	FILLER	PIC	X(4)	VALUE SPACES.
027000	05	FILLER	PIC	X(4)	VALUE
027100		"XXXX".			
027200	05	FILLER	PIC	X(5)	VALUE SPACES.
027300	05	FILLER	PIC	XX	VALUE "XX".
027400	05	FILLER	PIC	X(6)	VALUE SPACES.
027500	05	FILLER	PIC	XXXX	VALUE "XXXX".
027600	05	FILLER	PIC	X(6)	VALUE SPACES.
027700	05	FILLER	PIC	X	VALUE "X".
027800	05	FILLER	PIC	X(7)	VALUE SPACES.
027900	05	FILLER	PIC	XXX	VALUE "XXX".
028000	05	FILLER	PIC	X(8)	VALUE SPACES.
028100	05	FILLER	PIC	XX	VALUE "XX".
028200	05	FILLER	PIC	X(8)	VALUE SPACES.
028300	05	FILLER	PIC	XXX	VALUE "XXX".
028400	05	FILLER	PIC	X(8)	VALUE SPACES.
028500	05	FILLER	PIC	X(5)	VALUE
028600		"XXXXX".			
028700	05	FILLER	PIC	X(6)	VALUE SPACES.
028800	01	VB-DET-LN2.			
028900	05	FILLER	PIC	X(7)	VALUE SPACES.
029000	05	VB-LIN-NUM-P	PIC	XXXX.	
029100	05	FILLER	PIC	XX	VALUE SPACES.
029200	05	VB-SWA-P	PIC	XXXX.	
029300	05	FILLER	PIC	X(4)	VALUE SPACES.
029400	05	VB-TRN-P	PIC	XX.	
029500	05	FILLER	PIC	X(4)	VALUE SPACES.
029600	05	VB-PCT-SWA-P	PIC	XXX.	
029700	05	FILLER	PIC	XX	VALUE SPACES.
029800	05	VB-RNGE-SITE-P	PIC	X(11).	
029900	05	FILLER	PIC	XX	VALUE SPACES.
030000	05	VB-STRTUM-P	PIC	XXXX.	
030100	05	FILLER	PIC	X(4)	VALUE SPACES.
030200	05	VB-ALLOT-P	PIC	XXXX.	
030300	05	FILLER	PIC	X(5)	VALUE SPACES.
030400	05	VB-PASTURE-P	PIC	XX.	
030500	05	FILLER	PIC	X(6)	VALUE SPACES.
030600	05	VB-VEG-SUB-P	PIC	XXXX.	
030700	05	FILLER	PIC	X(6)	VALUE SPACES.
030800	05	VB-COND-CL-P	PIC	X.	
030900	05	FILLER	PIC	X(7)	VALUE SPACES.
031000	05	VB-PCT-SLOPE-P	PIC	XXX.	
031100	05	FILLER	PIC	X(8)	VALUE SPACES.
031200	05	VB-SLOPE-ASP-P	PIC	XX.	
031300	05	FILLER	PIC	X(8)	VALUE SPACES.
031400	05	VB-LAND-FORM-P	PIC	XXX.	
031500	05	FILLER	PIC	X(8)	VALUE SPACES.
031600	05	VB-SOIL-PHASE-P	PIC	X(5).	
031700	05	FILLER	PIC	X(6)	VALUE SPACES.
031800	01	VB-ASTERISK-LN2.			
031900	05	FILLER	PIC	X(7)	VALUE SPACES.
032000	05	VB-LIN-NUM-ERR	PIC	XXXX.	
032100	05	FILLER	PIC	XX	VALUE SPACES.
032200	05	VB-SWA-ERR	PIC	XXXX.	



032300	05	FILLER	PIC	X(4)	VALUE SPACES.
032400	05	VB-TRNSCT-ERR	PIC	XX.	
032500	05	FILLER	PIC	X(4)	VALUE SPACES.
032600	05	VB-PCT-SWA-ERR	PIC	XXX.	
032700	05	FILLER	PIC	XX	VALUE SPACES.
032800	05	VB-RNGE-SITE-ERR	PIC	X(11).	
032900	05	VB-RNGE-SITE-ERR-RE	REDEFINES	VB-RNGE-SITE-ERR.	
033000	10	VB-RNGSITE-ERR-4	PIC	XXXX.	
033100	10	VB-RNGSITE-ERR-3	PIC	XXX.	
033200	10	VB-RNGSITE-ERR-ALL	PIC	XXXX.	
033300	05	FILLER	PIC	XXX	VALUE SPACES.
033400	05	VB-STRTUM-ERR	PIC	XXX.	
033500	05	FILLER	PIC	X(4)	VALUE SPACES.
033600	05	VB-ALLOT-ERR	PIC	XXXX.	
033700	05	FILLER	PIC	X(5)	VALUE SPACES.
033800	05	VB-PASTURE-ERR	PIC	XX.	
033900	05	FILLER	PIC	X(6)	VALUE SPACES.
034000	05	VB-VEG-SUB-ERR	PIC	XXXX.	
034100	05	FILLER	PIC	X(6)	VALUE SPACES.
034200	05	VB-COND-CL-ERR	PIC	X.	
034300	05	FILLER	PIC	X(7)	VALUE SPACES.
034400	05	VB-PCT-SLOPE-ERR	PIC	XXX.	
034500	05	FILLER	PIC	X(8)	VALUE SPACES.
034600	05	VB-SLOPE-ASP-ERR	PIC	XX.	
034700	05	FILLER	PIC	X(8).	
034800	05	VB-LAND-FORM-ERR	PIC	XXX.	
034900	05	FILLER	PIC	X(8)	VALUE SPACES.
035000	05	VB-SOIL-PHASE-ERR	PIC	X(5).	
035100	05	FILLER	PIC	X(6)	VALUE SPACES.
035200	01	VR-HDR-ST.			
035300	05	FILLER	PIC	X(17)	VALUE SPACES.
035400	05	FILLER	PIC	X(8)	VALUE
035500		"STATE: "			
035600	05	HDR-VR-ST	PIC	X(15).	
035700	05	FILLER	PIC	X(53)	VALUE SPACES.
035800	05	HDR-VR-TIT	PIC	X(22).	
035900	05	FILLER	PIC	X(17)	VALUE SPACES.
036000	01	VR-HDR-REC1.			
036100	05	FILLER	PIC	X(10)	VALUE SPACES.
036200	05	FILLER	PIC	X(47)	VALUE
036300		"REC-TYP	ST	DATE	ACTN".
036400	05	FILLER	PIC	X(19)	VALUE
036500		"			RANGE SITE NO".
036600	05	FILLER	PIC	X(56)	VALUE SPACES.
036700	01	VR-HDR-REC2.			
036800	05	FILLER	PIC	X(12)	VALUE SPACES.
036900	05	FILLER	PIC	X(4)	VALUE "1-4".
037000	05	FILLER	PIC	X(11)	VALUE SPACES.
037100	05	FILLER	PIC	X(3)	VALUE "5-6".
037200	05	FILLER	PIC	X(9)	VALUE SPACES.
037300	05	FILLER	PIC	X(5)	VALUE
037400		"13-18".			
037500	05	FILLER	PIC	X(11)	VALUE SPACES.
037600	05	FILLER	PIC	XX	VALUE "19".
037700	05	FILLER	PIC	X(11)	VALUE SPACES.
037800	05	FILLER	PIC	X(5)	VALUE "20-30".
037900	05	FILLER	PIC	X(60)	VALUE SPACES.

038000	01	VR-HDR-REC3.				
038100	05	FILLER	PIC	X(12)	VALUE SPACE.	
038200	05	FILLER	PIC	XXXX	VALUE "XXXX".	
038300	05	FILLER	PIC	X(11)	VALUE SPACES.	
038400	05	FILLER	PIC	XX	VALUE "XX".	
038500	05	FILLER	PIC	X(9)	VALUE SPACES.	
038600	05	FILLER	PIC	X(6)	VALUE	
038700		"XXXXXX".				
038800	05	FILLER	PIC	X(11)	VALUE SPACES.	
038900	05	FILLER	PIC	X	VALUE "X".	
039000	05	FILLER	PIC	X(8)	VALUE SPACES.	
039100	05	FILLER	PIC	X(11)	VALUE	
039200		"XXXXXXXXXXXX".				
039300	05	FILLER	PIC	X(56)	VALUE SPACES.	
039400	01	VR-HDR-DET-LN1.				
039500	05	FILLER	PIC	X(12)	VALUE SPACES.	
039600	05	HDR-VR-REC-TYP-P	PIC	XXXX.		
039700	05	FILLER	PIC	X(11)	VALUE SPACES.	
039800	05	HDR-VR-ST-P	PIC	XX.		
039900	05	FILLER	PIC	X(9)	VALUE SPACES.	
040000	05	HDR-VR-DATE-P	PIC	X(6).		
040100	05	FILLER	PIC	X(11)	VALUE SPACES.	
040200	05	HDR-VR-ACTN-P	PIC	X.		
040300	05	FILLER	PIC	X(8)	VALUE SPACES.	
040400	05	HDR-VR-RNG-SITE-NO-P	PIC	X(11).		
040500	05	FILLER	PIC	X(57)	VALUE SPACES.	
040600	01	VR-HDR-ASTERISK-LN1.				
040700	05	FILLER	PIC	X(12)	VALUE SPACES.	
040800	05	HDR-VR-REC-TYP-ERR	PIC	XXXX.		
040900	05	FILLER	PIC	X(11)	VALUE SPACES.	
041000	05	HDR-VR-ST-ERR	PIC	XX.		
041100	05	FILLER	PIC	X(9)	VALUE SPACES.	
041200	05	HDR-VR-DATE-ERR	PIC	X(6).		
041300	05	FILLER	PIC	X(11)	VALUE SPACES.	
041400	05	HDR-VR-ACTN-ERR	PIC	X.		
041500	05	FILLER	PIC	X(8)	VALUE SPACES.	
041600	05	HDR-VR-RNG-SITE-NO-ERR	PIC	X(11).		
041700	05	VR-RNG-SITE-ERR REDEFINES HDR-VR-RNG-SITE-NO-ERR.				
041800	10	VR-RNGSITE-ERR-4	PIC	XXXX.		
041900	10	VR-RNGSITE-ERR-3	PIC	XXX.		
042000	10	VR-RNGSITE-ALL-ERR	PIC	XXXX.		
042100	05	FILLER	PIC	X(57)	VALUE SPACES.	
042200	01	VR1-HDR-REC1.				
042300	05	FILLER	PIC	X(5)	VALUE SPACES.	
042400	05	FILLER	PIC	X(29)	VALUE	
042500		"LIN NUM                   RNGE SITE NAME".				
042600	05	FILLER	PIC	X(44)	VALUE	
042700		"           PRECIP           SOIL SURFACE           AVG YR".				
042800	05	FILLER	PIC	X(41)	VALUE	
042900		"           FAVORABLE YR           UNFAVORABLE YR ".				
043000	05	FILLER	PIC	X(13)	VALUE SPACES.	
043100	01	VR1-HDR-REC2.				
043200	05	FILLER	PIC	X(6)	VALUE SPACES.	
043300	05	FILLER	PIC	X(24)	VALUE	
043400		"31-34                           35-42".				
043500	05	FILLER	PIC	X(11)	VALUE SPACES.	
043600	05	FILLER	PIC	X(37)	VALUE	

043700		"43-46	47-49		50-55".	
043800	05	FILLER		PIC	X(16)	VALUE
043900		"	56-61".			
044000	05	FILLER		PIC	X(15)	VALUE SPACES.
044100	05	FILLER		PIC	X(10)	VALUE
044200		"62-67	".			
044300	05	FILLER		PIC	X(13)	VALUE SPACES.
044400	01	VR1-HDR-REC3.				
044500	05	FILLER		PIC	X(7)	VALUE SPACES.
044600	05	FILLER		PIC	XXXX	VALUE "XXXX".
044700	05	FILLER		PIC	X(5)	VALUE SPACES.
044800	05	FILLER		PIC	X(7)	VALUE SPACES.
044900	05	FILLER		PIC	X(8)	VALUE
045000		"XXXXXXXX".				
045100	05	FILLER		PIC	X(10)	VALUE SPACES.
045200	05	FILLER		PIC	XXXX	VALUE "XXXX".
045300	05	FILLER		PIC	X(12)	VALUE SPACES.
045400	05	FILLER		PIC	XXX	VALUE "XXX".
045500	05	FILLER		PIC	X(12)	VALUE SPACES.
045600	05	FILLER		PIC	X(7)	VALUE
045700		"XXXXXXXX".				
045800	05	FILLER		PIC	X(10)	VALUE SPACES.
045900	05	FILLER		PIC	X(6)	VALUE
046000		"XXXXXX".				
046100	05	FILLER		PIC	X(14)	VALUE SPACES.
046200	05	FILLER		PIC	X(6)	VALUE
046300		"XXXXXX".				
046400	05	FILLER		PIC	X(4)	VALUE SPACES.
046500	05	FILLER		PIC	X(13)	VALUE SPACES.
046600	01	VR1-HDR-DET-LN2.				
046700	05	FILLER		PIC	X(7)	VALUE SPACES.
046800	05	VR1-LIN-NUM-P		PIC	XXXX.	
046900	05	FILLER		PIC	X(12)	VALUE SPACES.
047000	05	VR1-RNGSITE-NM-P		PIC	X(8).	
047100	05	FILLER		PIC	X(10)	VALUE SPACES.
047200	05	VR1-PRECIP-P		PIC	XXXX.	
047300	05	FILLER		PIC	X(12)	VALUE SPACES.
047400	05	VR1-SOIL-SURF-P		PIC	XXX.	
047500	05	FILLER		PIC	X(12)	VALUE SPACES.
047600	05	VR1-AVG-YR-P		PIC	X(6).	
047700	05	FILLER		PIC	X(11)	VALUE SPACES.
047800	05	VR1-FAVORABLE-YR-P		PIC	X(6).	
047900	05	FILLER		PIC	X(14)	VALUE SPACES.
048000	05	VR1-UNFAVORABLE-YR-P		PIC	X(6).	
048100	05	FILLER		PIC	X(17)	VALUE SPACES.
048200	01	VR1-HDR-ASTERISK-LN2.				
048300	05	FILLER		PIC	X(7)	VALUE SPACES.
048400	05	VR1-LIN-NUM-ERR		PIC	XXXX.	
048500	05	FILLER		PIC	X(12)	VALUE SPACES.
048600	05	VR1-RNGSITE-NM-ERR		PIC	X(8).	
048700	05	FILLER		PIC	X(10)	VALUE SPACES.
048800	05	VR1-PRECIP-ERR		PIC	XXXX.	
048900	05	FILLER		PIC	X(12).	
049000	05	VR1-SOIL-SURF-ERR		PIC	XXX.	
049100	05	FILLER		PIC	X(12)	VALUE SPACES.
049200	05	VR1-AVG-YR-ERR		PIC	X(6).	
049300	05	FILLER		PIC	X(11)	VALUE SPACES.

049400	05	VR1-FAVORABLE-YR-ERR	PIC	X(6).	
049500	05	FILLER	PIC	X(14)	VALUE SPACES.
049600	05	VR1-UNFAVORABLE-YR-ERR	PIC	X(6).	
049700	05	FILLER	PIC	X(17)	VALUE SPACES.
049800	01	VR2-HDR-REC1.			
049900	05	FILLER	PIC	X(6)	VALUE SPACES.
050000	05	FILLER	PIC	X(49)	VALUE
050100		"LIN NUM	PLANT CD	COMP PCT	PLANT CD".
050200	05	FILLER	PIC	X(21)	VALUE
050300		"	COMP PCT	"	.
050400	05	FILLER	PIC	X(57)	VALUE
050500		"PLANT CD	COMP PCT	PLANT CD	COMP-PCT
050600	01	VR2-HDR-REC2.			
050700	05	FILLER	PIC	X(7)	VALUE SPACES.
050800	05	FILLER	PIC	X(33)	VALUE
050900		"31-34	35-41	42-44".	
051000	05	FILLER	PIC	X(42)	VALUE
051100		"	45-51	52-54	55-61".
051200	05	FILLER	PIC	X(42)	VALUE
051300		"	62-64	65-71	72-74".
051400	05	FILLER	PIC	X(8)	VALUE SPACES.
051500	01	VR2-HDR-REC3.			
051600	05	FILLER	PIC	X(8)	VALUE SPACES.
051700	05	FILLER	PIC	XXXX	VALUE "XXXX".
051800	05	FILLER	PIC	X(8)	VALUE SPACES.
051900	05	FILLER	PIC	X(7)	VALUE
052000		"XXXXXXXX".			
052100	05	FILLER	PIC	X(9)	VALUE SPACES.
052200	05	FILLER	PIC	XXX	VALUE "XXX".
052300	05	FILLER	PIC	X(9)	VALUE SPACES.
052400	05	FILLER	PIC	X(7)	VALUE
052500		"XXXXXXXX".			
052600	05	FILLER	PIC	X(9)	VALUE SPACES.
052700	05	FILLER	PIC	XXX	VALUE "XXX".
052800	05	FILLER	PIC	X(9)	VALUE SPACES.
052900	05	FILLER	PIC	X(7)	VALUE
053000		"XXXXXXXX".			
053100	05	FILLER	PIC	X(9)	VALUE SPACES.
053200	05	FILLER	PIC	XXX	VALUE "XXX".
053300	05	FILLER	PIC	X(9)	VALUE SPACES.
053400	05	FILLER	PIC	X(7)	VALUE
053500		"XXXXXXXX".			
053600	05	FILLER	PIC	X(9)	VALUE SPACES.
053700	05	FILLER	PIC	XXX	VALUE "XXX".
053800	05	FILLER	PIC	X(9)	VALUE SPACES.
053900	01	VR2-HDR-DET-LN2.			
054000	05	FILLER	PIC	X(8)	VALUE SPACES.
054100	05	VR2-LIN-NUM-P	PIC	XXXX.	
054200	05	FILLER	PIC	X(8)	VALUE SPACES.
054300	05	VR2-PLANT-CD1-P	PIC	X(7).	
054400	05	FILLER	PIC	X(9)	VALUE SPACES.
054500	05	VR2-COMP-PCT1-P	PIC	XXX.	
054600	05	FILLER	PIC	X(9)	VALUE SPACES.
054700	05	VR2-PLANT-CD2-P	PIC	X(7).	
054800	05	FILLER	PIC	X(9)	VALUE SPACES.
054900	05	VR2-COMP-PCT2-P	PIC	XXX.	
055000	05	FILLER	PIC	X(9)	VALUE SPACES.

055100	05	VR2-PLANT-CD3-P	PIC	X(7).	
055200	05	FILLER	PIC	X(9)	VALUE SPACES.
055300	05	VR2-COMP-PCT3-P	PIC	XXX.	
055400	05	FILLER	PIC	X(9)	VALUE SPACES.
055500	05	VR2-PLANT-CD4-P	PIC	X(7).	
055600	05	FILLER	PIC	X(9)	VALUE SPACES.
055700	05	VR2-COMP-PCT4-P	PIC	XXX.	
055800	05	FILLER	PIC	X(9)	VALUE SPACES.
055900	01	VR2-HDR-ASTERISK-LN2.			
056000	05	FILLER	PIC	X(8)	VALUE SPACES.
056100	05	VR2-LIN-NUM-ERR	PIC	XXXX.	
056200	05	FILLER	PIC	X(8)	VALUE SPACES.
056300	05	VR2-PLANT-CD1-ERR	PIC	X(7).	
056400	05	FILLER	PIC	X(9)	VALUE SPACES.
056500	05	VR2-COMP-PCT1-ERR	PIC	XXX.	
056600	05	FILLER	PIC	X(9)	VALUE SPACES.
056700	05	VR2-PLANT-CD2-ERR	PIC	X(7).	
056800	05	FILLER	PIC	X(9)	VALUE SPACES.
056900	05	VR2-COMP-PCT2-ERR	PIC	XXX.	
057000	05	FILLER	PIC	X(9)	VALUE SPACES.
057100	05	VR2-PLANT-CD3-ERR	PIC	X(7).	
057200	05	FILLER	PIC	X(9)	VALUE SPACES.
057300	05	VR2-COMP-PCT3-ERR	PIC	XXX.	
057400	05	FILLER	PIC	X(9)	VALUE SPACES.
057500	05	VR2-PLANT-CD4-ERR	PIC	X(7).	
057600	05	FILLER	PIC	X(9)	VALUE SPACES.
057700	05	VR2-COMP-PCT4-ERR	PIC	XXX.	
057800	05	FILLER	PIC	X(9)	VALUE SPACES.
057900	01	VR3-HDR-REC1.			
058000	05	FILLER	PIC	X(6)	VALUE SPACES.
058100	05	FILLER	PIC	X(39)	VALUE
058200		"LIN NUM SOIL PHASE			".
058300	05	FILLER	PIC	X(24)	VALUE
058400		"SOIL NAME			".
058500	05	FILLER	PIC	X(25)	VALUE
058600		"SOIL PHASE			".
058700	05	FILLER	PIC	X(9)	VALUE
058800		"SOIL NAME".			
058900	05	FILLER	PIC	X(29)	VALUE SPACES.
059000	01	VR3-HDR-REC2.			
059100	05	FILLER	PIC	X(7)	VALUE SPACES.
059200	05	FILLER	PIC	X(20)	VALUE
059300		"31-34 35-39".			
059400	05	FILLER	PIC	X(20)	VALUE SPACES.
059500	05	FILLER	PIC	X(5)	VALUE
059600		"40-63".			
059700	05	FILLER	PIC	X(20)	VALUE SPACES.
059800	05	FILLER	PIC	X(5)	VALUE
059900		"64-68".			
060000	05	FILLER	PIC	X(19)	VALUE SPACES.
060100	05	FILLER	PIC	X(5)	VALUE
060200		"69-92".			
060300	05	FILLER	PIC	X(31)	VALUE SPACES.
060400	01	VR3-HDR-REC3.			
060500	05	FILLER	PIC	X(8)	VALUE SPACES.
060600	05	FILLER	PIC	XXXX	VALUE "XXXX".
060700	05	FILLER	PIC	X(10)	VALUE SPACES.

060800	05	FILLER	PIC	X(5)	VALUE
060900		"XXXXX".			
061000	05	FILLER	PIC	X(12)	VALUE SPACES.
061100	05	FILLER	PIC	X(24)	VALUE
061200		"XXXXXXXXXXXXXXXXXXXXXXXXXXXX".			
061300	05	FILLER	PIC	X(11)	VALUE SPACES.
061400	05	FILLER	PIC	X(5)	VALUE
061500		"XXXXX".			
061600	05	FILLER	PIC	X(9)	VALUE SPACES.
061700	05	FILLER	PIC	X(24)	VALUE
061800		"XXXXXXXXXXXXXXXXXXXXXXXXXXXX".			
061900	05	FILLER	PIC	X(22)	VALUE SPACES.
062000	01	VR3-HDR-DET-LN2.			
062100	05	FILLER	PIC	X(8)	VALUE SPACES.
062200	05	VR3-LIN-NUM-P	PIC	XXXX.	
062300	05	FILLER	PIC	X(10)	VALUE SPACES.
062400	05	VR3-SOIL-PHASE1-P	PIC	X(5).	
062500	05	FILLER	PIC	X(10)	VALUE SPACES.
062600	05	VR3-SOIL-NM1-P	PIC	X(24).	
062700	05	FILLER	PIC	X(11)	VALUE SPACES.
062800	05	VR3-SOIL-PHASE2-P	PIC	X(5).	
062900	05	FILLER	PIC	X(9)	VALUE SPACES.
063000	05	VR3-SOIL-NM2-P	PIC	X(24).	
063100	05	FILLER	PIC	X(22)	VALUE SPACES.
063200	01	VR3-HDR-ASTERISK-LN2.			
063300	05	FILLER	PIC	X(8)	VALUE SPACES.
063400	05	VR3-LIN-NUM-ERR	PIC	X(4).	
063500	05	FILLER	PIC	X(10)	VALUE SPACES.
063600	05	VR3-SOIL-PHASE1-ERR	PIC	X(5).	
063700	05	FILLER	PIC	X(10)	VALUE SPACES.
063800	05	VR3-SOIL-NM1-ERR	PIC	X(24).	
063900	05	FILLER	PIC	X(11)	VALUE SPACES.
064000	05	VR3-SOIL-PHASE2-ERR	PIC	X(5).	
064100	05	FILLER	PIC	X(9)	VALUE SPACES.
064200	05	VR3-SOIL-NM2-ERR	PIC	X(24).	
064300	05	FILLER	PIC	X(22)	VALUE SPACES.
064400	01	VR-VB-REC-HLD.			
064500	05	REC-TYP-HLD.			
064600	10	REC-TYP-VB1Z	PIC	XX.	
064700	10	FMT-NUM-VB1Z	PIC	X(1).	
064800	10	FORMAT-CD-VB1Z	PIC	X(1).	
064900	05	BLM-ADM-U-VB1Z.			
065000	07	SDR-VB1Z.			
065100	08	SD-VB1Z.			
065200	09	ADST-CD-VB1Z	PIC	XX.	
065300	09	DIST-CD-VB1Z	PIC	XX.	
065400	08	RA-CD-VB1Z	PIC	XX.	
065500	07	PU-CD-VB1Z	PIC	XX.	
065600	05	CLMTC-ADJ-FCTR-VB1Z	PIC	X(5).	
065700	05	DATA-DATE-VB1Z	PIC	X(6).	
065800	05	ACTION-CD-VB1Z	PIC	X(1).	
065900	05	LIN-NUM-VB1Z	PIC	X(4).	
066000	05	SWA-VB1Z.			
066100	10	SWA-CD-VB1Z	PIC	X.	
066200	10	SWA-NUM-VB1Z	PIC	X(3).	
066300	05	TRN-NUM-VB1Z	PIC	X(2).	
066400	05	SWA-PCT-VB1Z	PIC	X(3).	

066500	05	RNG-SITE-ID-VB1Z	PIC	X(11).
066600	05	RNG-SITE-ID-VB1Z-RE	REDEFINES	RNG-SITE-ID-VB1Z.
066700	10	RNG-SITE-ID-4-VB1Z	PIC	XXXX.
066800	10	RNG-SITE-ID-3-VB1Z	PIC	XXX.
066900	10	RNG-SITE-ID-ALL-VB1Z	PIC	XXXX.
067000	05	STRATUM-NUMER-VB1Z	PIC	X(4).
067100	05	ALLOT-NUM-VB1Z	PIC	X(4).
067200	05	PASTURE-NUM-VB1Z	PIC	X(2).
067300	05	VEG-SUB-TYP-VB1Z	PIC	X(4).
067400	05	RNG-ECOL-COND-CLS-VB1Z	PIC	X(1).
067500	05	PCT-SLP-VB1Z	PIC	X(3).
067600	05	ASPT-VB1Z	PIC	X(2).
067700	05	L-FORM-VB1Z	PIC	X(3).
067800	05	SOIL-PHAS-VB1Z	PIC	X(5).
067900	05	FILLER	PIC	X(19).
068000	01	VR1-REC-HLD	REDEFINES	VR-VB-REC-HLD.
068100	05	GRP1-VR1Z.		
068200	10	REC-TYP-VR1Z	PIC	X(2).
068300	10	FMT-NUM-VR1Z	PIC	X(1).
068400	10	FORMAT-CD-VR1Z	PIC	X(1).
068500	05	BLM-ADM-U-VR1Z.		
068600	10	ADST-CD-VR1Z	PIC	XX.
068700	10	DIST-CD-VR1Z	PIC	XX.
068800	10	RA-CD-VR1Z	PIC	XX.
068900	10	PU-CD-VR1Z	PIC	XX.
069000	05	DATA-DATE-VR1Z	PIC	X(6).
069100	05	ACTION-CD-VR1Z	PIC	X(1).
069200	05	RNG-SITE-ID-VR1Z	PIC	X(11).
069300	05	RNG-SITE-ID-VR1Z-RE	REDEFINES	RNG-SITE-ID-VR1Z.
069400	10	RNG-SITE-ID-4-VR1Z	PIC	XXXX.
069500	10	RNG-SITE-ID-3-VR1Z	PIC	XXX.
069600	10	RNG-SITE-ID-ALL-VR1Z	PIC	XXXX.
069700	05	LIN-NUM-VR1Z	PIC	X(4).
069800	05	RNG-SITE-NAM-VR1Z	PIC	X(8).
069900	05	PRECIP-ZONE-VR1Z	PIC	X(4).
070000	05	SSF-VAL-AVG-VR1Z	PIC	X(3).
070100	05	POTN-PPA-RS-VR1Z	PIC	X(6) OCCURS 3 TIMES.
070200	05	FILLER	PIC	X(29).
070300	01	VR2-REC-HLD	REDEFINES	VR-VB-REC-HLD.
070400	05	GRP1-VR2Z.		
070500	10	REC-TYP-VR2Z	PIC	X(2).
070600	10	FMT-NUM-VR2Z	PIC	X(1).
070700	10	FORMAT-CD-VR2Z	PIC	X(1).
070800	05	BLM-ADM-U-VR2Z.		
070900	10	ADST-CD-VR2Z	PIC	XX.
071000	10	DIST-CD-VR2Z	PIC	XX.
071100	10	RA-CD-VR2Z	PIC	XX.
071200	10	PU-CD-VR2Z	PIC	XX.
071300	05	DATA-DATE-VR2Z	PIC	X(6).
071400	05	ACTION-CD-VR2Z	PIC	X(1).
071500	05	RNG-SITE-ID-VR2Z	PIC	X(11).
071600	05	RNG-SITE-ID-VR2Z-RE	REDEFINES	RNG-SITE-ID-VR2Z.
071700	10	RNG-SITE-ID-4-VR2Z	PIC	XXXX.
071800	10	RNG-SITE-ID-3-VR2Z	PIC	XXX.
071900	10	RNG-SITE-ID-ALL-VR2Z	PIC	XXXX.
072000	05	LIN-NUM-VR2Z	PIC	X(4).
072100	05	GRP2-VR2Z	OCCURS	4 TIMES.

072200		10	PLANT-CD-VR2Z	PIC	X(7).		
072300		10	PCT-COMP-VR2Z	PIC	XXX.		
072400		05	PLANT-TYP-VR2Z	PIC	X	OCCURS 4 TIMES.	
072500		05	FILLER	PIC	X(18).		
072600	01		VR3-REC-HLD REDEFINES VR-VB-REC-HLD.				
072700		05	GRP1-VR3Z.				
072800		10	REC-TYP-VR3Z	PIC	X(2).		
072900		10	FMT-NUM-VR3Z	PIC	X(1).		
073000		10	FORMAT-CD-VR3Z	PIC	X(1).		
073100		05	BLM-ADM-U-VR3Z.				
073200		10	ADST-CD-VR3Z	PIC	XX.		
073300		10	DIST-CD-VR3Z	PIC	XX.		
073400		10	RA-CD-VR3Z	PIC	XX.		
073500		10	PU-CD-VR3Z	PIC	XX.		
073600		05	DATA-DATE-VR3Z	PIC	X(6).		
073700		05	ACTION-CD-VR3Z	PIC	X(1).		
073800		05	RNG-SITE-ID-VR3Z	PIC	X(11).		
073900		05	RNG-SITE-ID-VR3Z-RE REDEFINES RNG-SITE-ID-VR3Z.				
074000		10	RNG-SITE-ID-4-VR3Z	PIC	XXXX.		
074100		10	RNG-SITE-ID-3-VR3Z	PIC	XXX.		
074200		10	RNG-SITE-ID-ALL-VR3Z	PIC	XXXX.		
074300		05	LIN-NUM-VR3Z	PIC	X(4).		
074400		05	GRP2-VR3Z OCCURS 2 TIMES.				
074500		10	SOIL-PHAS-VR3Z	PIC	X(5).		
074600		10	SOIL-NAM-VR3Z	PIC	X(24).		
074700		05	FILLER	PIC	X(4).		
074800	01		VB-INST-ERR-LN1.				
074900		05	FILLER	PIC	X(24)	VALUE SPACES.	
075000		05	FILLER	PIC	X(46)	VALUE	
075100			"IF ERROR CORRECTION IS IN COMMON DATA (1-17), "				
075200		05	FILLER	PIC	X(38)	VALUE	
075300			"KEY ALL RECORDS WITH SAME COMMON DATA."				
075400		05	FILLER	PIC	X(24)	VALUE SPACES.	
075500	01		VB-INST-ERR-LN2.				
075600		05	FILLER	PIC	X(24)	VALUE SPACES.	
075700		05	FILLER	PIC	X(51)	VALUE	
075800			"IF ERROR CORRECTION IS IN FIELD POSITIONS (29-76), "				
075900		05	FILLER	PIC	X(36)	VALUE	
076000			"KEY (1-28) AND RED CORRECTED FIELDS."				
076100		05	FILLER	PIC	X(21)	VALUE SPACES.	
076200	01		VR-INST-ERR-LN1.				
076300		05	FILLER	PIC	X(24)	VALUE SPACES.	
076400		05	FILLER	PIC	X(62)	VALUE	
076500			"IF ERROR CORRECTION IS IN COMMON DATA (1-6 OR 20-30), KEY AL				
076600-			"L ".				
076700		05	FILLER	PIC	X(30)	VALUE	
076800			"RECORDS WITH SAME COMMON DATA."				
076900		05	FILLER	PIC	X(16)	VALUE SPACES.	
077000	01		VR-INST-ERR-LN2.				
077100		05	FILLER	PIC	X(24)	VALUE SPACES.	
077200		05	FILLER	PIC	X(51)	VALUE	
077300			"IF ERROR CORRECTION IS IN FIELD POSITIONS (35-92), "				
077400		05	FILLER	PIC	X(36)	VALUE	
077500			"KEY (1-30) AND RED CORRECTED FIELDS."				
077600		05	FILLER	PIC	X(21)	VALUE SPACES.	
077700	01		DICTIONARY-SEPARATE.				
077800		05	DIC-NAM	PIC	X(23).		



```

077900      05  PLANT-TYP      PIC  X.
078000 01  RANGE-SITE-ID.
078100      05  MLRA              PIC  X(3).
078200      05  RNG-NUM          PIC  X(8).
078300      05  RNG-CHAR REDEFINES RNG-NUM OCCURS 8 TIMES PIC  X.
078400 01  PRT-RESULT-TOT.
078500      05  NO-ERRORS-P      PIC  X(35)  VALUE SPACES.
078600      05  FILLER          PIC  X(97)  VALUE SPACES.
078700 01  PRT-RESULT-ERROR.
078800      05  FILLER          PIC  X(7)   VALUE
078900      "INPUT  ".
079000      05  INPUT-CTR-P      PIC  9(5).
079100      05  FILLER          PIC  X(6)   VALUE
079200      "GOOD  ".
079300      05  GOOD-CNTR-P      PIC  9(5).
079400      05  FILLER          PIC  X(5)   VALUE
079500      "BAD  ".
079600      05  BAD-CNTR-P      PIC  9(5).
079700      05  FILLER          PIC  X(99)  VALUE SPACES.
079800  PROCEDURE DIVISION.
079900 050-CONTROL SECTION.
080000 100-CONTROL.
080100      OPEN INPUT VR-VB-IN-FILE
080200      OUTPUT VR-VB-OT-FILE
080300      OUTPUT VM-WORK-FILE, VB-WORK-FILE
080400      OUTPUT PRINTFILE.
080500  READY DIC-DE.
080600  MOVE 0 TO SWITCH-LINE1.
080700  MOVE 0 TO ERR-FREE  RNGE-SITE-SAME.
080800  MOVE SPACES TO VR-VB-REC-HLD, VR1-REC-HLD,
080900      VR2-REC-HLD, VR3-REC-HLD,
081000      VR-VB-OT-REC.
081100  MOVE SPACES TO VB-ASTERISK-LN1  VB-ASTERISK-LN2
081200      VR-HDR-ASTERISK-LN1  VR1-HDR-ASTERISK-LN2
081300      VR2-HDR-ASTERISK-LN2  VR3-HDR-ASTERISK-LN2.
081400  READ VR-VB-IN-FILE
081500      AT END
081600      MOVE 1 TO EOF-SWITCH.
081700  IF  (REC-TYP-I1 = "VB1D") AND
081800      (EOF-SWITCH = ZERO) AND
081900      (RNG-ECOL-COND-CLS-I1 = " ")
082000      MOVE "U" TO RNG-ECOL-COND-CLS-I1.
082100  IF EOF-SWITCH = 0
082200      MOVE VR-VB-IN-REC TO VR-VB-REC-HLD.
082300  MOVE "ES320E" TO HDR-PCN.
082400  ACCEPT AS-OF-DATE FROM DATE.  MOVE AS-OF-DA TO HDR-DD.
082500  MOVE MON (AS-OF-MO) TO HDR-MMM.  MOVE AS-OF-YR TO HDR-YR.
082600  IF  (REC-TYP-I1 = "VB1D") AND
082700      (EOF-SWITCH = ZERO)
082800      MOVE VR-VB-IN-REC TO VB-WORK-REC
082900      WRITE VB-WORK-REC.
083000  IF  REC-TYP-HLD = "VB1D"
083100      MOVE REC-TYP-HLD TO REC-TYP-HLD-2
083200      MOVE ADST-CD-VB1Z TO HLD-ST
083300      MOVE DIST-CD-VB1Z TO HLD-DIST
083400      MOVE RA-CD-VB1Z TO HLD-RA
083500      MOVE PU-CD-VB1Z TO HLD-PU

```

```

083600         MOVE CLMTC-ADJ-FCTR-VB1Z TO HLD-CLMTC-ADJ-FCTR
083700         PERFORM 435-VALIDATE-ST THRU 490-EXIT
083800         GO TO 130-CONT-PROCESS.
083900     IF REC-TYP-HLD = "VR1D" OR "VR2D" OR "VR3D"
084000         MOVE ADST-CD-VB1Z TO HLD-ST
084100         MOVE REC-TYP-HLD TO REC-TYP-HLD-2
084200         MOVE RNG-SITE-ID-VR2Z TO HLD-RNG-SITE-ID
084300         PERFORM 432-VALIDATE-ST-VR THRU 434-EXIT
084400         PERFORM 620A-CHK-RNGSITE THRU 621A-EXIT
084500         PERFORM 415-CHK-TIT.
084600     IF (REC-TYP-I1 = "VR1D") AND
084700         (EOF-SWITCH = ZERO)
084800         MOVE SPACE TO VM-WORK-REC
084900         MOVE "VM1D" TO REC-TYP-U1
085000         MOVE ADST-CD-VR1Z TO ST-U1
085100         MOVE DIST-CD-VR1Z TO DS-U1
085200         MOVE DATA-DATE-VR1Z TO DATE-U1
085300         MOVE "A" TO ACT-U1
085400         MOVE "2" TO STK-RATE-U1
085500         MOVE RNG-SITE-ID-VR1Z TO RNG-SITE-U1
085600         WRITE VM-WORK-REC.
085700 130-CONT-PROCESS.
085800     PERFORM 200-PROCESS THRU 250-READ-FL-AGAIN UNTIL EOF.
085900     PERFORM 260-CHK-ERROR-CTR.
086000     CLOSE VR-VB-IN-FILE
086100         VR-VB-OT-FILE
086200         VM-WORK-FILE
086300         VB-WORK-FILE
086400         PRINTFILE.
086500     FINISH DIC-DE.
086600     STOP RUN.
086700 160-PRT-VB1D-HDNG.
086800     ADD 1 TO PAGE-CTR.
086900     MOVE PAGE-CTR TO HDR-PG.
087000     WRITE PRT-REC FROM HDR-1 AFTER ADVANCING PAGE.
087100     WRITE PRT-REC FROM HDR-2 AFTER ADVANCING 2 LINES.
087200     WRITE PRT-REC FROM VB-INST-ERR-LN1 AFTER ADVANCING 2 LINES.
087300     WRITE PRT-REC FROM VB-INST-ERR-LN2 AFTER ADVANCING 1 LINES.
087400     MOVE 6 TO LINE-CTR.
087500 200-PROCESS.
087600 210-COMP-REC-TYP.
087700     IF REC-TYP-HLD-2 = REC-TYP-HLD GO TO 230-EQ-REC-TYP.
087800     IF REC-TYP-HLD = "VR1D"
087900         MOVE 0 TO ERR-FREE  RNGE-SITE-SAME
088000         MOVE 0 TO SWITCH-LINE1
088100         MOVE REC-TYP-HLD TO REC-TYP-HLD-2
088200         MOVE ADST-CD-VR1Z TO HLD-ST
088300         MOVE RNG-SITE-ID-VR1Z TO HLD-RNG-SITE-ID
088400         MOVE "VR1 EDIT ERROR LISTING" TO HDR-VR-TIT
088500         MOVE SPACES TO VR-HDR-ASTERISK-LN1  VR1-HDR-ASTERISK-LN2
088600         PERFORM 432-VALIDATE-ST-VR THRU 434-EXIT
088700         PERFORM 522-CHK-RNGSITE THRU 526-EXIT
088800         GO TO 230-EQ-REC-TYP.
088900     IF REC-TYP-HLD = "VR2D"
089000         MOVE 0 TO ERR-FREE  RNGE-SITE-SAME
089100         MOVE 0 TO SWITCH-LINE1
089200         MOVE REC-TYP-HLD TO REC-TYP-HLD-2

```

```

089300      MOVE ADST-CD-VR2Z TO HLD-ST
089400      MOVE RNG-SITE-ID-VR2Z TO HLD-RNG-SITE-ID
089500      MOVE "VR2 EDIT ERROR LISTING" TO HDR-VR-TIT
089600      MOVE SPACES TO VR-HDR-ASTERISK-LN1  VR2-HDR-ASTERISK-LN2
089700      PERFORM 432-VALIDATE-ST-VR THRU 434-EXIT
089800      PERFORM 620A-CHK-RNGSITE THRU 621A-EXIT
089900      GO TO 230-EQ-REC-TYP.
090000      IF REC-TYP-HLD = "VR3D"
090100          MOVE 0 TO ERR-FREE  RNGE-SITE-SAME
090200          MOVE 0 TO SWITCH-LINE1
090300          MOVE REC-TYP-HLD TO REC-TYP-HLD-2
090400          MOVE ADST-CD-VR3Z TO HLD-ST
090500          MOVE RNG-SITE-ID-VR3Z TO HLD-RNG-SITE-ID
090600          MOVE "VR3 EDIT ERROR LISTING" TO HDR-VR-TIT
090700          MOVE SPACES TO VR-HDR-ASTERISK-LN1  VR3-HDR-ASTERISK-LN2
090800          PERFORM 432-VALIDATE-ST-VR THRU 434-EXIT
090900          PERFORM 710-CHK-RNGSITE THRU 735-EXIT
091000          GO TO 230-EQ-REC-TYP.
091100      IF REC-TYP-HLD = "VB1D"
091200          MOVE 0 TO SWITCH-LINE1
091300          PERFORM 385-MV-TO-HLD
091400          MOVE "VB  EDIT ERROR LISTING" TO HDR-VB-EDIT
091500          MOVE SPACES TO VB-ASTERISK-LN1  VB-ASTERISK-LN2
091600          PERFORM 435-VALIDATE-ST THRU 490-EXIT.
091700      230-EQ-REC-TYP.
091800          ADD 1 TO INPUT-CTR.
091900          IF REC-TYP-HLD-2 = "VB1D"
092000              PERFORM 320-CHK-ST-VB THRU 384-EXIT-PRT
092100              MOVE SPACES TO VB-ASTERISK-LN1  VB-ASTERISK-LN2
092200              GO TO 250-READ-FL-AGAIN.
092300          IF REC-TYP-HLD-2 = "VR1D"
092400              PERFORM 500-CHK-VR1D THRU 535-EXIT-PRT-VR1
092500              IF (ERR-FREE = 1) AND (RNGE-SITE-SAME = 1)
092600                  MOVE SPACES TO VR2-HDR-ASTERISK-LN2
092700                  GO TO 250-READ-FL-AGAIN
092800              ELSE
092900                  MOVE SPACES TO VR-HDR-ASTERISK-LN1
093000                      VR2-HDR-ASTERISK-LN2
093100                  GO TO 250-READ-FL-AGAIN.
093200          IF REC-TYP-HLD-2 = "VR2D"
093300              PERFORM 600-CHK-VR2D THRU 675-EXIT-PRT-VR2
093400              IF (ERR-FREE = 1) AND (RNGE-SITE-SAME = 1)
093500                  MOVE SPACES TO VR2-HDR-ASTERISK-LN2
093600                  GO TO 250-READ-FL-AGAIN
093700              ELSE
093800                  MOVE SPACES TO VR-HDR-ASTERISK-LN1
093900                      VR2-HDR-ASTERISK-LN2
094000                  GO TO 250-READ-FL-AGAIN.
094100          IF REC-TYP-HLD-2 = "VR3D"
094200              PERFORM 700-CHK-VR3D THRU 785-EXIT-PRT-VR3
094300              IF (ERR-FREE = 1) AND (RNGE-SITE-SAME = 1)
094400                  MOVE SPACES TO VR2-HDR-ASTERISK-LN2
094500                  GO TO 250-READ-FL-AGAIN
094600              ELSE
094700                  MOVE SPACES TO VR-HDR-ASTERISK-LN1
094800                      VR2-HDR-ASTERISK-LN2
094900                  GO TO 250-READ-FL-AGAIN.

```

```

095000     DISPLAY REC-TYP-HLD-2.
095100     DISPLAY VR-VB-REC-HLD.
095200 250-READ-FL-AGAIN.
095300     READ VR-VB-IN-FILE
095400         AT END
095500         MOVE 1 TO EOF-SWITCH.
095600     IF (REC-TYP-I1 = "VB1D") AND
095700         (EOF-SWITCH = ZERO) AND
095800         (RNG-ECOL-COND-CLS-I1 = " ")
095900         MOVE "U" TO RNG-ECOL-COND-CLS-I1.
096000     IF EOF-SWITCH = 0
096100         MOVE VR-VB-IN-REC TO VR-VB-REC-HLD.
096200     IF (REC-TYP-I1 = "VB1D") AND
096300         (EOF-SWITCH = ZERO)
096400         ADD 1 TO VB-IN-CNT
096500         MOVE VR-VB-IN-REC TO VB-WORK-REC
096600         WRITE VB-WORK-REC.
096700     IF (REC-TYP-I1 = "VR1D") AND
096800         (EOF-SWITCH = ZERO)
096900         IF RNG-SITE-HLD = RNG-SITE-ID-VR1Z
097000             NEXT SENTENCE ELSE
097100             MOVE RNG-SITE-ID-VR1Z TO RNG-SITE-HLD
097200             MOVE SPACE TO VM-WORK-REC
097300             MOVE "VM1D" TO REC-TYP-U1
097400             MOVE ADST-CD-VR1Z TO ST-U1
097500             MOVE DIST-CD-VR1Z TO DS-U1
097600             MOVE DATA-DATE-VR1Z TO DATE-U1
097700             MOVE "A" TO ACT-U1
097800             MOVE "2" TO STK-RATE-U1
097900             MOVE RNG-SITE-ID-VR1Z TO RNG-SITE-U1
098000             WRITE VM-WORK-REC.
098100 260-CHK-ERROR-CTR.
098200     IF ERROR-CTR = ZERO
098300         DISPLAY " NO ERRORS DETECTED ON THESE RECORDS"
098400     ELSE
098500         MOVE INPUT-CTR TO INPUT-CTR-P
098600         MOVE GOOD-CTR TO GOOD-CNTR-P
098700         MOVE ERROR-CTR TO BAD-CNTR-P
098800         WRITE PRT-REC FROM PRT-RESULT-ERROR AFTER ADVANCING
098900                                     2 LINES
099000         ADD 2 TO LINE-CTR.
099100 275-WRT-HDR-ST.
099200     WRITE PRT-REC FROM VR-INST-ERR-LN1 AFTER ADVANCING 2 LINES.
099300     WRITE PRT-REC FROM VR-INST-ERR-LN2 AFTER ADVANCING 1 LINES.
099400     ADD 3 TO LINE-CTR.
099500 320-CHK-ST-VB.
099600     IF HLD-ST = ADST-CD-VB1Z NEXT SENTENCE
099700     ELSE
099800         PERFORM 435-VALIDATE-ST THRU 490-EXIT
099900         MOVE 0 TO PAGE-CTR
100000         PERFORM 430-PRT-HEADING2
100100         MOVE 0 TO SWITCH-LINE1
100200         PERFORM 385-MV-TO-HLD
100300         GO TO 370-EDIT-VB1D.
100400 330-CHK-DIST-VB.
100500     IF HLD-DIST = DIST-CD-VB1Z NEXT SENTENCE
100600     ELSE

```

```

100700         PERFORM 435-VALIDATE-ST THRU 490-EXIT
100800         MOVE 0 TO PAGE-CTR
100900         PERFORM 430-PRT-HEADING2
101000         MOVE 0 TO SWITCH-LINE1
101100         PERFORM 385-MV-TO-HLD
101200         GO TO 370-EDIT-VB1D.
101300 340-CHK-RA-VB.
101400         IF HLD-RA = RA-CD-VB1Z NEXT SENTENCE
101500         ELSE
101600             PERFORM 435-VALIDATE-ST THRU 490-EXIT
101700             MOVE 0 TO SWITCH-LINE1
101800             PERFORM 385-MV-TO-HLD
101900             GO TO 370-EDIT-VB1D.
102000 350-CHK-PU-VB.
102100         IF HLD-PU = PU-CD-VB1Z NEXT SENTENCE
102200         ELSE
102300             PERFORM 435-VALIDATE-ST THRU 490-EXIT
102400             MOVE 0 TO SWITCH-LINE1
102500             PERFORM 385-MV-TO-HLD
102600             GO TO 370-EDIT-VB1D.
102700 360-CHK-CLMTC-ADJ-FCTR.
102800         IF HLD-CLMTC-ADJ-FCTR = CLMTC-ADJ-FCTR-VB1Z NEXT SENTENCE
102900         ELSE
103000             MOVE 0 TO SWITCH-LINE1
103100             PERFORM 385-MV-TO-HLD.
103200 370-EDIT-VB1D.
103300         IF REC-TYP-HLD-2 NOT = "VB1D"
103400             MOVE ALL "*" TO REC-TYP-ERR.
103500         IF HLD-CLMTC-ADJ-FCTR NOT NUMERIC
103600             OR HLD-CLMTC-ADJ-FCTR NOT > ZERO
103700             MOVE ALL "*" TO CLIMATIC-ADJ-ERR.
103800         IF ACTION-CD-VB1Z NOT = "A" AND "D"
103900             MOVE "*" TO ACTN-ERR.
104000         IF SWA-CD-VB1Z NOT ALPHABETIC
104100             OR SWA-CD-VB1Z = SPACE
104200             MOVE ALL "*" TO VB-SWA-ERR.
104300         IF SWA-NUM-VB1Z NOT NUMERIC
104400             IF SWA-NUM-VB1Z = SPACES
104500                 MOVE ZEROS TO SWA-NUM-VB1Z
104600             ELSE
104700                 MOVE ALL "*" TO VB-SWA-ERR.
104800         IF TRN-NUM-VB1Z NOT NUMERIC
104900             IF TRN-NUM-VB1Z = SPACES
105000                 MOVE ZEROS TO TRN-NUM-VB1Z
105100             ELSE
105200                 MOVE ALL "*" TO VB-TRNSCT-ERR.
105300         IF SWA-PCT-VB1Z LESS THAN "001" OR
105400             SWA-PCT-VB1Z GREATER THAN "100"
105500             MOVE ALL "*" TO VB-PCT-SWA-ERR.
105600         IF STRATUM-NUMER-VB1Z NOT NUMERIC OR
105700             STRATUM-NUMER-VB1Z NOT GREATER THAN ZERO
105800             MOVE ALL "*" TO VB-STRTUM-ERR.
105900         IF RNG-SITE-ID-VB1Z = SPACES OR ZEROS
106000             MOVE ALL "*" TO VB-RNGE-SITE-ERR.
106100         EXAMINE RNG-SITE-ID-VB1Z TALLYING UNTIL FIRST SPACE.
106200         MOVE TALLY TO RNG-SITE-TALLY.
106300         EXAMINE RNG-SITE-ID-VB1Z TALLYING ALL SPACES.

```

```

106400     ADD TALLY TO RNG-SITE-TALLY.
106500     IF RNG-SITE-TALLY NOT = 11
106600         MOVE ALL "*" TO VB-RNGE-SITE-ERR.
106700     IF RNG-SITE-ID-4-VB1Z = "G58C" OR "G59C"
106800         GO TO 370B-CHK-RNGSITE-VB1D.
106900     MOVE RNG-SITE-ID-4-VB1Z TO DE-CD-8822-DEC.
107000     MOVE "3902" TO DE-NO-8801-DEC.
107100     FIND ANY CODE-DEC.
107200     MOVE DB-STATUS TO DB-STAT.
107300     IF NOT OK
107400         MOVE ALL "*" TO VB-RNGSITE-ERR-4.
107500 370B-CHK-RNGSITE-VB1D.
107600     IF RNG-SITE-ID-3-VB1Z NOT NUMERIC
107700         MOVE ALL "*" TO VB-RNGSITE-ERR-3.
107800     IF ALLOT-NUM-VB1Z
107900         NOT NUMERIC
108000         MOVE ALL "*" TO VB-ALLOT-ERR.
108100     IF PASTURE-NUM-VB1Z NOT NUMERIC
108200         IF PASTURE-NUM-VB1Z = SPACES
108300             MOVE ZEROS TO PASTURE-NUM-VB1Z
108400         ELSE
108500             MOVE ALL "*" TO VB-PASTURE-ERR.
108600 371-CHK-VEG.
108700     IF VEG-SUB-TYP-VB1Z = SPACES GO TO 372-CHK-COND-CLS.
108800     MOVE VEG-SUB-TYP-VB1Z TO DE-CD-8822-DEC.
108900     MOVE 2706 TO DE-NO-8801-DEC.
109000     FIND ANY CODE-DEC.
109100     MOVE DB-STATUS TO DB-STAT.
109200     IF NOT OK
109300         MOVE ALL "*" TO VB-VEG-SUB-ERR.
109400 372-CHK-COND-CLS.
109500     IF RNG-ECOL-COND-CLS-VB1Z = " "
109600         MOVE "U" TO RNG-ECOL-COND-CLS-VB1Z.
109700     IF BLM-ADM-U-VB1Z NOT = "CA026804" NEXT SENTENCE
109800     ELSE IF RNG-ECOL-COND-CLS-VB1Z = "S" OR "M" OR "D"
109900         GO TO 373-CHK-PCT-SLP.
110000     IF RNG-ECOL-COND-CLS-VB1Z NOT =
110100         "E" AND "F" AND "G" AND "P" AND "U"
110200         MOVE "*" TO VB-COND-CL-ERR.
110300 373-CHK-PCT-SLP.
110400     IF PCT-SLP-VB1Z = SPACES GO TO 374-CHK-ASPT.
110500     IF PCT-SLP-VB1Z NOT NUMERIC
110600         MOVE ZEROS TO PCT-SLP-VB1Z
110700         MOVE ALL "*" TO VB-PCT-SLOPE-ERR.
110800 374-CHK-ASPT.
110900     IF ASPT-VB1Z = SPACES GO TO 374A-CHK-L-FORM.
111000     MOVE ASPT-VB1Z TO DE-CD-8822-DEC.
111100     MOVE 6523 TO DE-NO-8801-DEC.
111200     FIND ANY CODE-DEC.
111300     IF NOT OK
111400         MOVE ALL "*" TO VB-SLOPE-ASP-ERR.
111500 374A-CHK-L-FORM.
111600     IF L-FORM-VB1Z = SPACES GO TO 380-EXIT.
111700     MOVE L-FORM-VB1Z TO DE-CD-8822-DEC.
111800     MOVE 5132 TO DE-NO-8801-DEC.
111900     FIND ANY CODE-DEC.
112000     MOVE DB-STATUS TO DB-STAT.

```

```

112100     IF NOT OK
112200         MOVE ALL "*" TO VB-LAND-FORM-ERR.
112300 380-EXIT.
112400     EXIT.
112500 382-CHK-TWO-LINES.
112600     IF VB-ASTERISK-LN1 = SPACES AND
112700         VB-ASTERISK-LN2 = SPACES
112800         WRITE VR-VB-OT-REC FROM VR-VB-REC-HLD
112900         ADD 1 TO GOOD-CTR
113000         GO TO 384-EXIT-PRT.
113100     ADD 1 TO ERROR-CTR.
113200     IF SWITCH-LINE1 = 1
113300         PERFORM 400-WRITE-ERROR-VB
113400         GO TO 384-EXIT-PRT
113500     ELSE
113600         MOVE 1 TO SWITCH-LINE1
113700         PERFORM 160-PRT-VB1D-HDNG
113800         PERFORM 390-MV-HDR-DET1
113900         WRITE PRT-REC FROM VB-HDR-REC1 AFTER ADVANCING 2 LINES.
114000         WRITE PRT-REC FROM VB-HDR-REC2 AFTER ADVANCING 1 LINES.
114100         WRITE PRT-REC FROM VB-HDR-REC3 AFTER ADVANCING 1 LINES.
114200         WRITE PRT-REC FROM VB-DET-LN1 AFTER ADVANCING 2 LINES.
114300         WRITE PRT-REC FROM VB-ASTERISK-LN1 AFTER ADVANCING
114400                                     2 LINES.
114500         WRITE PRT-REC FROM VB-HDR-REC4 AFTER ADVANCING 2 LINES.
114600         WRITE PRT-REC FROM VB-HDR-REC5 AFTER ADVANCING 1 LINES.
114700         WRITE PRT-REC FROM VB-HDR-REC6 AFTER ADVANCING 1 LINES.
114800         ADD 12 TO LINE-CTR.
114900         PERFORM 400-WRITE-ERROR-VB.
115000 384-EXIT-PRT.
115100     EXIT.
115200 385-MV-TO-HLD.
115300     MOVE REC-TYP-HLD TO REC-TYP-HLD-2.
115400     MOVE ADST-CD-VB1Z TO HLD-ST.
115500     MOVE DIST-CD-VB1Z TO HLD-DIST.
115600     MOVE RA-CD-VB1Z TO HLD-RA.
115700     MOVE PU-CD-VB1Z TO HLD-PU.
115800     MOVE CLMTC-ADJ-FCTR-VB1Z TO HLD-CLMTC-ADJ-FCTR.
115900 390-MV-HDR-DET1.
116000     MOVE SPACES TO VB-DET-LN1.
116100     MOVE REC-TYP-HLD-2 TO REC-TYP-P.
116200     MOVE HLD-ST TO ST-P.
116300     MOVE HLD-DIST TO DIST-P.
116400     MOVE HLD-RA TO RS-P.
116500     MOVE HLD-PU TO PU-P.
116600     MOVE HLD-CLMTC-ADJ-FCTR TO CLIMATIC-ADJ-P.
116700     MOVE DATA-DATE-VB1Z TO DATE-P.
116800     MOVE ACTION-CD-VB1Z TO ACTN-P.
116900 400-WRITE-ERROR-VB.
117000     MOVE SPACES TO VB-DET-LN2.
117100     IF LINE-CTR > 50
117200         PERFORM 160-PRT-VB1D-HDNG
117300         WRITE PRT-REC FROM VB-HDR-REC4 AFTER ADVANCING 2 LINES
117400         WRITE PRT-REC FROM VB-HDR-REC5 AFTER ADVANCING 1 LINES
117500         WRITE PRT-REC FROM VB-HDR-REC6 AFTER ADVANCING 1 LINES
117600         ADD 4 TO LINE-CTR.
117700     MOVE LIN-NUM-VB1Z TO VB-LIN-NUM-P.

```

```

117800     MOVE SWA-VB1Z TO VB-SWA-P.
117900     MOVE TRN-NUM-VB1Z TO VB-TRN-P.
118000     MOVE SWA-PCT-VB1Z TO VB-PCT-SWA-P.
118100     MOVE RNG-SITE-ID-VB1Z TO VB-RNGE-SITE-P.
118200     MOVE STRATUM-NUMER-VB1Z TO VB-STRTUM-P.
118300     MOVE ALLOT-NUM-VB1Z TO VB-ALLOT-P.
118400     MOVE PASTURE-NUM-VB1Z TO VB-PASTURE-P.
118500     MOVE VEG-SUB-TYP-VB1Z TO VB-VEG-SUB-P.
118600     MOVE RNG-ECOL-COND-CLS-VB1Z TO VB-COND-CL-P.
118700     MOVE PCT-SLP-VB1Z TO VB-PCT-SLOPE-P.
118800     MOVE ASPT-VB1Z TO VB-SLOPE-ASP-P.
118900     MOVE L-FORM-VB1Z TO VB-LAND-FORM-P.
119000     MOVE SOIL-PHAS-VB1Z TO VB-SOIL-PHASE-P.
119100     WRITE PRT-REC FROM VB-DET-LN2 AFTER ADVANCING 2 LINES.
119200     WRITE PRT-REC FROM VB-ASTERISK-LN2 AFTER ADVANCING 1 LINES.
119300     ADD 3 TO LINE-CTR.
119400 415-CHK-TIT.
119500     MOVE RNG-SITE-ID-VR1Z TO HLD-RNG-SITE-ID.
119600     IF REC-TYP-HLD = "VR1D"
119700         MOVE "VR1 EDIT ERROR LISTING" TO HDR-VR-TIT
119800     ELSE
119900         IF REC-TYP-HLD = "VR2D"
120000             MOVE "VR2 EDIT ERROR LISTING" TO HDR-VR-TIT
120100         ELSE
120200             IF REC-TYP-HLD = "VR3D"
120300                 MOVE "VR3-EDIT ERROR LISTING" TO HDR-VR-TIT.
120400 420-HEADING-ROUTINE.
120500     MOVE 1 TO PAGE-CTR.
120600     MOVE PAGE-CTR TO HDR-PG.
120700     WRITE PRT-REC FROM HDR-1 AFTER ADVANCING PAGE.
120800     WRITE PRT-REC FROM VR-HDR-ST AFTER ADVANCING 2 LINES
120900     MOVE 3 TO LINE-CTR.
121000 430-PRT-HEADING2.
121100     ADD 1 TO PAGE-CTR.
121200     MOVE PAGE-CTR TO HDR-PG.
121300     WRITE PRT-REC FROM HDR-1 AFTER ADVANCING PAGE.
121400     WRITE PRT-REC FROM VR-HDR-ST AFTER ADVANCING 2 LINES.
121500     MOVE 3 TO LINE-CTR.
121600 432-VALIDATE-ST-VR.
121700     MOVE ADST-CD-VR1Z TO DE-CD-8822-DEC.
121800     MOVE 0003 TO DE-NO-8801-DEC.
121900     FIND ANY CODE-DEC.
122000     MOVE DB-STATUS TO DB-STAT.
122100     IF NOT OK
122200         MOVE "UNKNOWN" TO HDR-VR-ST
122300         GO TO 434-EXIT.
122400     GET CODE-DEC.
122500     MOVE DB-STATUS TO DB-STAT.
122600     IF NOT OK
122700         DISPLAY "DIDN'T GET ST"
122800         DISPLAY DB-STAT
122900         GO TO 434-EXIT.
123000     MOVE DE-CD-NAM-8823-DEC TO FUNC-HLD.
123100     MOVE ST-NM-HLD TO HDR-VR-ST.
123200 434-EXIT.
123300     EXIT.
123400 435-VALIDATE-ST.

```



123500 MOVE ADST-CD-VB1Z TO DE-CD-8822-DEC.  
123600 436-MV-ST.  
123700 MOVE 0003 TO DE-NO-8801-DEC.  
123800 FIND ANY CODE-DEC.  
123900 MOVE DB-STATUS TO DB-STAT.  
124000 IF NOT OK  
124100 PERFORM 440-ST-NOT-FND  
124200 GO TO 490-EXIT.  
124300 GET CODE-DEC.  
124400 MOVE DB-STATUS TO DB-STAT.  
124500 IF NOT OK  
124600 PERFORM 440-ST-NOT-FND  
124700 GO TO 490-EXIT.  
124800 MOVE DE-CD-NAM-8823-DEC TO FUNC-HLD.  
124900 MOVE ST-NM-HLD TO HDR-ST-NM.  
125000 437-VALIDATE-ST-DIST.  
125100 MOVE SD-VB1Z TO DE-CD-8822-DEC.  
125200 MOVE 0003 TO DE-NO-8801-DEC.  
125300 FIND ANY CODE-DEC.  
125400 MOVE DB-STATUS TO DB-STAT.  
125500 IF NOT OK  
125600 PERFORM 450-SD-NOT-FND  
125700 GO TO 490-EXIT.  
125800 GET CODE-DEC.  
125900 MOVE DB-STATUS TO DB-STAT.  
126000 IF NOT OK  
126100 PERFORM 450-SD-NOT-FND  
126200 GO TO 490-EXIT.  
126300 FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.  
126400 MOVE DB-STATUS TO DB-STAT.  
126500 IF NOT OK  
126600 PERFORM 450-SD-NOT-FND  
126700 GO TO 490-EXIT.  
126800 GET CODE-EXPL-DECE.  
126900 MOVE DB-STATUS TO DB-STAT.  
127000 IF NOT OK  
127100 PERFORM 450-SD-NOT-FND  
127200 GO TO 490-EXIT.  
127300 MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HLD.  
127400 MOVE DIST-NM-HLD TO HDR-DIST-NM.  
127500 438-VALIDATE-SDR.  
127600 MOVE SDR-VB1Z TO DE-CD-8822-DEC.  
127700 MOVE 0003 TO DE-NO-8801-DEC.  
127800 FIND ANY CODE-DEC.  
127900 MOVE DB-STATUS TO DB-STAT.  
128000 IF NOT OK  
128100 PERFORM 470-SDR-NOT-FND  
128200 GO TO 490-EXIT.  
128300 439-VALIDATE-SDRP.  
128400 MOVE BLM-ADM-U-VB1Z TO DE-CD-8822-DEC.  
128500 MOVE 0003 TO DE-NO-8801-DEC.  
128600 FIND ANY CODE-DEC.  
128700 MOVE DB-STATUS TO DB-STAT.  
128800 IF NOT OK  
128900 PERFORM 480-SDRP-NOT-FND  
129000 GO TO 490-EXIT.  
129100 GO TO 490-EXIT.

```

129200 440-ST-NOT-FND.
129300     MOVE "UNKNOWN" TO HDR-ST-NM  HDR-DIST-NM.
129400     MOVE ALL "*" TO ST-ERR  DIST-ERR  RS-ERR  PU-ERR.
129500 450-SD-NOT-FND.
129600     MOVE "UNKNOWN" TO HDR-DIST-NM.
129700     MOVE ALL "*" TO DIST-ERR  RS-ERR  PU-ERR.
129800 470-SDR-NOT-FND.
129900     MOVE ALL "*" TO RS-ERR  PU-ERR.
130000 480-SDRP-NOT-FND.
130100     MOVE ALL "*" TO PU-ERR.
130200 490-EXIT.
130300     EXIT.
130400 500-CHK-VR1D.
130500     IF HLD-RNG-SITE-ID = RNG-SITE-ID-VR1Z NEXT SENTENCE
130600     ELSE
130700         MOVE 0 TO RNGE-SITE-SAME
130800         MOVE SPACES TO HDR-VR-RNG-SITE-NO-ERR
130900         MOVE "VR1 EDIT ERROR LISTING" TO HDR-VR-TIT
131000         MOVE 0 TO SWITCH-LINE1
131100         MOVE ADST-CD-VR1Z TO HLD-ST
131200         MOVE REC-TYP-HLD TO REC-TYP-HLD-2
131300         MOVE RNG-SITE-ID-VR1Z TO HLD-RNG-SITE-ID
131400         PERFORM 522-CHK-RNGSITE THRU 526-EXIT
131500         PERFORM 550-PRT-HDNG-VR
131600         GO TO 520-EDIT-VR1D.
131700     MOVE 1 TO RNGE-SITE-SAME.
131800     IF HLD-ST = ADST-CD-VR1Z NEXT SENTENCE
131900     ELSE
132000         MOVE 1 TO PAGE-CTR
132100         MOVE "VR1 EDIT ERROR LISTING" TO HDR-VR-TIT
132200         MOVE 0 TO SWITCH-LINE1
132300         MOVE ADST-CD-VR1Z TO HLD-ST
132400         MOVE REC-TYP-HLD TO REC-TYP-HLD-2
132500         PERFORM 550-PRT-HDNG-VR.
132600 520-EDIT-VR1D.
132700     IF REC-TYP-HLD-2 NOT = "VR1D"
132800         MOVE ALL "*" TO HDR-VR-REC-TYP-ERR.
132900     IF ACTION-CD-VR1Z NOT = "A" AND "D"
133000         MOVE "*" TO HDR-VR-ACTN-ERR
133100         GO TO 527-CHK-PRECIP.
133200 522-CHK-RNGSITE.
133300     IF RNG-SITE-ID-VR1Z = ZERO OR
133400         RNG-SITE-ID-VR1Z = SPACE
133500         MOVE ALL "*" TO HDR-VR-RNG-SITE-NO-ERR.
133600     MOVE RNG-SITE-ID-VR1Z TO RANGE-SITE-ID.
133700     EXAMINE MLRA TALLYING ALL SPACE.
133800     IF TALLY > ZERO
133900         MOVE ALL "*" TO HDR-VR-RNG-SITE-NO-ERR.
134000     MOVE 8 TO I.
134100     PERFORM 580-EXAMINE-ID UNTIL I < 1 OR RNG-CHAR (I)
134200         NOT = SPACE.
134300     EXAMINE RNG-NUM TALLYING UNTIL FIRST SPACE.
134400     IF I > 0
134500         IF TALLY NOT = I
134600             MOVE ALL "*" TO HDR-VR-RNG-SITE-NO-ERR.
134700     IF RNG-SITE-ID-4-VR1Z = "G58C" OR "G59C"
134800         GO TO 525-CHK-RNG-SITE-VR1Z.

```

```

134900     MOVE RNG-SITE-ID-4-VR1Z TO DE-CD-8822-DEC.
135000     MOVE "3902" TO DE-NO-8801-DEC.
135100     FIND ANY CODE-DEC.
135200     MOVE DB-STATUS TO DB-STAT.
135300     IF NOT OK
135400         MOVE ALL "*" TO VR-RNGSITE-ERR-4.
135500 525-CHK-RNG-SITE-VR1Z.
135600     IF RNG-SITE-ID-3-VR1Z NOT NUMERIC
135700         MOVE ALL "*" TO VR-RNGSITE-ERR-3.
135800 526-EXIT.
135900     EXIT.
136000 527-CHK-PRECIP.
136100     IF PRECIP-ZONE-VR1Z NOT NUMERIC
136200         AND PRECIP-ZONE-VR1Z NOT = SPACE
136300         MOVE ALL "*" TO VR1-PRECIP-ERR.
136400     IF PRECIP-ZONE-VR1Z = SPACE
136500         MOVE ZERO TO PRECIP-ZONE-VR1Z.
136600     IF SSF-VAL-AVG-VR1Z = SPACE
136700         MOVE ZERO TO SSF-VAL-AVG-VR1Z.
136800     IF SSF-VAL-AVG-VR1Z NOT NUMERIC
136900         AND SSF-VAL-AVG-VR1Z NOT = SPACE
137000         MOVE ALL "*" TO VR1-SOIL-SURF-ERR.
137100     IF POTN-PPA-RS-VR1Z (1) = SPACE
137200         MOVE ALL "*" TO VR1-AVG-YR-ERR.
137300     IF POTN-PPA-RS-VR1Z (1) NOT NUMERIC
137400         OR POTN-PPA-RS-VR1Z (1) = ZERO
137500         MOVE ALL "*" TO VR1-AVG-YR-ERR.
137600     IF POTN-PPA-RS-VR1Z (2) = SPACE
137700         MOVE ALL "*" TO VR1-FAVORABLE-YR-ERR.
137800     IF POTN-PPA-RS-VR1Z (2) NOT NUMERIC
137900         OR POTN-PPA-RS-VR1Z (2) = ZERO
138000         MOVE ALL "*" TO VR1-FAVORABLE-YR-ERR.
138100     IF POTN-PPA-RS-VR1Z (3) = SPACE
138200         MOVE ALL "*" TO VR1-UNFAVORABLE-YR-ERR.
138300     IF POTN-PPA-RS-VR1Z (3) NOT NUMERIC
138400         OR POTN-PPA-RS-VR1Z (3) = ZERO
138500         MOVE ALL "*" TO VR1-UNFAVORABLE-YR-ERR.
138600 530-CHK-VR-ERR.
138700     IF VR-HDR-ASTERISK-LN1 = SPACES AND
138800         VR1-HDR-ASTERISK-LN2 = SPACES
138900         WRITE VR-VB-OT-REC FROM VR1-REC-HLD
139000         ADD 1 TO GOOD-CTR
139100         GO TO 535-EXIT-PRT-VR1.
139200     MOVE 1 TO ERR-FREE.
139300     ADD 1 TO ERROR-CTR.
139400     IF SWITCH-LINE1 = 1
139500         PERFORM 590-WRT-ERROR-VR1
139600         GO TO 535-EXIT-PRT-VR1
139700     ELSE
139800         MOVE 1 TO SWITCH-LINE1
139900         PERFORM 560-PRT-HDNG
140000         PERFORM 275-WRT-HDR-ST
140100         PERFORM 585-MV-HDR-DET-VR
140200         WRITE PRT-REC FROM VR-HDR-REC1 AFTER ADVANCING 2 LINES.
140300         WRITE PRT-REC FROM VR-HDR-REC2 AFTER ADVANCING 1 LINES.
140400         WRITE PRT-REC FROM VR-HDR-REC3 AFTER ADVANCING 1 LINES.
140500         WRITE PRT-REC FROM VR-HDR-DET-LN1 AFTER ADVANCING

```

```

140600                                     2 LINES.
140700      WRITE PRT-REC FROM VR-HDR-ASTERISK-LN1 AFTER ADVANCING 1
140800                                     LINES.
140900      WRITE PRT-REC FROM VR1-HDR-REC1 AFTER ADVANCING 2 LINES.
141000      WRITE PRT-REC FROM VR1-HDR-REC2 AFTER ADVANCING 1 LINES.
141100      WRITE PRT-REC FROM VR1-HDR-REC3 AFTER ADVANCING 1 LINES.
141200      ADD 11 TO LINE-CTR.
141300      PERFORM 590-WRT-ERROR-VR1.
141400 535-EXIT-PRT-VR1.
141500      EXIT.
141600 550-PRT-HDNG-VR.
141700      PERFORM 432-VALIDATE-ST-VR THRU 434-EXIT.
141800 560-PRT-HDNG.
141900      ADD 1 TO PAGE-CTR.
142000      MOVE PAGE-CTR TO HDR-PG.
142100      WRITE PRT-REC FROM HDR-1 AFTER ADVANCING PAGE.
142200      WRITE PRT-REC FROM VR-HDR-ST AFTER ADVANCING 2 LINES.
142300      MOVE 3 TO LINE-CTR.
142400 580-EXAMINE-ID.
142500      SUBTRACT 1 FROM I.
142600 585-MV-HDR-DET-VR.
142700      MOVE SPACES TO VR-HDR-DET-LN1.
142800      MOVE GRP1-VR1Z TO HDR-VR-REC-TYP-P.
142900      MOVE ADST-CD-VR1Z TO HDR-VR-ST-P.
143000      MOVE DATA-DATE-VR1Z TO HDR-VR-DATE-P.
143100      MOVE ACTION-CD-VR1Z TO HDR-VR-ACTN-P.
143200      MOVE RNG-SITE-ID-VR1Z TO HDR-VR-RNG-SITE-NO-P.
143300 590-WRT-ERROR-VR1.
143400      MOVE SPACES TO VR1-HDR-DET-LN2.
143500      IF LINE-CTR > 50
143600          PERFORM 560-PRT-HDNG.
143700      MOVE LIN-NUM-VR1Z TO VR1-LIN-NUM-P.
143800      MOVE RNG-SITE-NAM-VR1Z TO VR1-RNGSITE-NM-P.
143900      MOVE PRECIP-ZONE-VR1Z TO VR1-PRECIP-P.
144000      MOVE SSF-VAL-AVG-VR1Z TO VR1-SOIL-SURF-P.
144100      MOVE POTN-PPA-RS-VR1Z (1) TO VR1-AVG-YR-P.
144200      MOVE POTN-PPA-RS-VR1Z (2) TO VR1-FAVORABLE-YR-P.
144300      MOVE POTN-PPA-RS-VR1Z (3) TO VR1-UNFAVORABLE-YR-P.
144400      WRITE PRT-REC FROM VR1-HDR-DET-LN2 AFTER ADVANCING 2 LINES.
144500      WRITE PRT-REC FROM VR1-HDR-ASTERISK-LN2 AFTER ADVANCING
144600          1 LINES.
144700      MOVE SPACES TO VR-HDR-ASTERISK-LN1 VR1-HDR-ASTERISK-LN2.
144800      ADD 3 TO LINE-CTR.
144900 600-CHK-VR2D.
145000      IF HLD-RNG-SITE-ID = RNG-SITE-ID-VR2Z NEXT SENTENCE
145100      ELSE
145200          MOVE 0 TO RNGE-SITE-SAME
145300          MOVE SPACES TO HDR-VR-RNG-SITE-NO-ERR
145400          MOVE "VR2 EDIT ERROR LISTING" TO HDR-VR-TIT
145500          MOVE 0 TO SWITCH-LINE1
145600          MOVE ADST-CD-VR2Z TO HLD-ST
145700          MOVE REC-TYP-HLD TO REC-TYP-HLD-2
145800          MOVE RNG-SITE-ID-VR2Z TO HLD-RNG-SITE-ID
145900          PERFORM 620A-CHK-RNGSITE THRU 621A-EXIT
146000          PERFORM 550-PRT-HDNG-VR
146100          GO TO 620-EDIT-VR2D.
146200      MOVE 1 TO RNGE-SITE-SAME.

```

```

146300     IF HLD-ST = ADST-CD-VR2Z NEXT SENTENCE
146400     ELSE
146500         MOVE 1 TO PAGE-CTR
146600         MOVE "VR2 EDIT ERROR LISTING" TO HDR-VR-TIT
146700         MOVE 0 TO SWITCH-LINE1
146800         MOVE ADST-CD-VR1Z TO HLD-ST
146900         MOVE REC-TYP-HLD TO REC-TYP-HLD-2
147000         PERFORM 550-PRT-HDNG-VR.
147100     620-EDIT-VR2D.
147200         IF GRP1-VR2Z NOT = "VR2D"
147300             MOVE ALL "*" TO HDR-VR-REC-TYP-ERR.
147400         IF ACTION-CD-VR2Z NOT = "A" AND "D"
147500             MOVE "*" TO HDR-VR-ACTN-ERR.
147600             GO TO 621A-CHK-PLNT-CD.
147700     620A-CHK-RNGSITE.
147800         IF RNG-SITE-ID-VR1Z = ZERO OR
147900             RNG-SITE-ID-VR1Z = SPACE
148000             MOVE ALL "*" TO HDR-VR-RNG-SITE-NO-ERR.
148100         MOVE RNG-SITE-ID-VR1Z TO RANGE-SITE-ID.
148200         EXAMINE MLRA TALLYING ALL SPACE.
148300         IF TALLY > ZERO
148400             MOVE ALL "*" TO HDR-VR-RNG-SITE-NO-ERR.
148500         MOVE 8 TO I.
148600         PERFORM 580-EXAMINE-ID UNTIL I < 1 OR RNG-CHAR (I)
148700             NOT = SPACE.
148800         EXAMINE RNG-NUM TALLYING UNTIL FIRST SPACE.
148900         IF I > 0
149000             IF TALLY NOT = I
149100                 MOVE ALL "*" TO HDR-VR-RNG-SITE-NO-ERR.
149200         IF RNG-SITE-ID-4-VR1Z = "G58C" OR "G59C"
149300             GO TO 621-CHK-RNG-SITE-VR2Z.
149400         MOVE RNG-SITE-ID-4-VR1Z TO DE-CD-8822-DEC.
149500         MOVE "3902" TO DE-NO-8801-DEC.
149600         FIND ANY CODE-DEC.
149700         MOVE DB-STATUS TO DB-STAT.
149800         IF NOT OK
149900             MOVE ALL "*" TO VR-RNGSITE-ERR-4.
150000     621-CHK-RNG-SITE-VR2Z.
150100         IF RNG-SITE-ID-3-VR1Z NOT NUMERIC
150200             MOVE ALL "*" TO VR-RNGSITE-ERR-3.
150300     621A-EXIT.
150400         EXIT.
150500     621A-CHK-PLNT-CD.
150600         IF PLANT-CD-VR2Z (1) = SPACE
150700             MOVE SPACE TO PLANT-TYP-VR2Z (1)
150800             GO TO 622-CHK-PLNT-CD2.
150900             MOVE "2646" TO DE-NO-8801-DEC
151000             MOVE PLANT-CD-VR2Z (1) TO DE-CD-8822-DEC
151100             FIND ANY CODE-DEC
151200             MOVE DB-STATUS TO DB-STAT
151300             IF NOT OK
151400                 IF PLANT-CD-VR2Z (1) = "BARREN"
151500                     MOVE SPACE TO PLANT-TYP-VR2Z (1)
151600                     GO TO 622-CHK-PLNT-CD2
151700             ELSE
151800                 MOVE ALL "*" TO VR2-PLANT-CD1-ERR
151900                 GO TO 622-CHK-PLNT-CD2.

```

```

152000     GET CODE-DEC.
152100     MOVE DB-STATUS TO DB-STAT
152200     IF NOT OK
152300         MOVE ALL "*" TO VR2-PLANT-CD1-ERR
152400         GO TO 622-CHK-PLNT-CD2.
152500     MOVE DE-CD-NAM-8823-DEC TO DICTIONARY-SEPARATE
152600     IF PLANT-TYP NOT = "G" AND "F" AND "S" AND "T"
152700         MOVE ALL "*" TO VR2-PLANT-CD1-ERR.
152800     MOVE PLANT-TYP TO PLANT-TYP-VR2Z (1).
152900 622-CHK-PLNT-CD2.
153000     IF PLANT-CD-VR2Z (2) = SPACE
153100         MOVE SPACE TO PLANT-TYP-VR2Z (2)
153200         GO TO 624-CHK-PLNT-CD3.
153300         MOVE "2646" TO DE-NO-8801-DEC
153400         MOVE PLANT-CD-VR2Z (2) TO DE-CD-8822-DEC
153500         FIND ANY CODE-DEC
153600         MOVE DB-STATUS TO DB-STAT
153700         IF NOT OK
153800             IF PLANT-CD-VR2Z (2) = "BARREN"
153900                 MOVE SPACE TO PLANT-TYP-VR2Z (2)
154000                 GO TO 624-CHK-PLNT-CD3
154100             ELSE
154200                 MOVE ALL "*" TO VR2-PLANT-CD2-ERR
154300                 GO TO 624-CHK-PLNT-CD3.
154400             GET CODE-DEC
154500             MOVE DB-STATUS TO DB-STAT
154600             IF NOT OK
154700                 MOVE ALL "*" TO VR2-PLANT-CD2-ERR
154800                 GO TO 624-CHK-PLNT-CD3.
154900                 MOVE DE-CD-NAM-8823-DEC TO DICTIONARY-SEPARATE
155000                 IF PLANT-TYP NOT = "G" AND "F" AND "S"
155100                     AND "T"
155200                     MOVE ALL "*" TO VR2-PLANT-CD2-ERR.
155300                     MOVE PLANT-TYP TO PLANT-TYP-VR2Z (2).
155400 624-CHK-PLNT-CD3.
155500     IF PLANT-CD-VR2Z (3) = SPACE
155600         MOVE SPACE TO PLANT-TYP-VR2Z (3)
155700         GO TO 626-CHK-PLNT-CD4.
155800         MOVE "2646" TO DE-NO-8801-DEC
155900         MOVE PLANT-CD-VR2Z (3) TO DE-CD-8822-DEC
156000         FIND ANY CODE-DEC
156100         MOVE DB-STATUS TO DB-STAT
156200         IF NOT OK
156300             IF PLANT-CD-VR2Z (3) = "BARREN"
156400                 MOVE SPACE TO PLANT-TYP-VR2Z (3)
156500                 GO TO 626-CHK-PLNT-CD4
156600             ELSE
156700                 MOVE ALL "*" TO VR2-PLANT-CD3-ERR
156800                 GO TO 626-CHK-PLNT-CD4.
156900             GET CODE-DEC
157000             MOVE DB-STATUS TO DB-STAT
157100             IF NOT OK
157200                 MOVE ALL "*" TO VR2-PLANT-CD3-ERR
157300                 GO TO 626-CHK-PLNT-CD4.
157400                 MOVE DE-CD-NAM-8823-DEC TO DICTIONARY-SEPARATE
157500                 IF PLANT-TYP NOT = "G" AND "F" AND "S"
157600                     AND "T"

```

```

157700             MOVE ALL "*" TO VR2-PLANT-CD3-ERR.
157800             MOVE PLANT-TYP TO PLANT-TYP-VR2Z (3).
157900 626-CHK-PLNT-CD4.
158000             IF PLANT-CD-VR2Z (4) = SPACE
158100                 MOVE SPACE TO PLANT-TYP-VR2Z (4)
158200                 GO TO 628-CHK-PCT-COMP.
158300                 MOVE "2646" TO DE-NO-8801-DEC
158400                 MOVE PLANT-CD-VR2Z (4) TO DE-CD-8822-DEC
158500                 FIND ANY CODE-DEC
158600                 MOVE DB-STATUS TO DB-STAT
158700                 IF NOT OK
158800                     IF PLANT-CD-VR2Z (4) = "BARREN"
158900                         MOVE SPACE TO PLANT-TYP-VR2Z (4)
159000                         GO TO 628-CHK-PCT-COMP
159100                     ELSE
159200                         MOVE ALL "*" TO VR2-PLANT-CD4-ERR
159300                         GO TO 628-CHK-PCT-COMP.
159400                         GET CODE-DEC
159500                         MOVE DB-STATUS TO DB-STAT
159600                         IF NOT OK
159700                             MOVE ALL "*" TO VR2-PLANT-CD4-ERR
159800                             GO TO 628-CHK-PCT-COMP.
159900                             MOVE DE-CD-NAM-8823-DEC TO DICTIONARY-SEPARATE
160000                             IF PLANT-TYP NOT = "G" AND "F" AND "S"
160100                                 AND "T"
160200                                 MOVE ALL "*" TO VR2-PLANT-CD4-ERR.
160300                                 MOVE PLANT-TYP TO PLANT-TYP-VR2Z (4).
160400 628-CHK-PCT-COMP.
160500             IF PLANT-CD-VR2Z (1) NOT = SPACE AND
160600                 ((PCT-COMP-VR2Z (1) = SPACE)
160700                 OR (PCT-COMP-VR2Z (1) NOT NUMERIC))
160800                 MOVE ALL "*" TO VR2-COMP-PCT1-ERR.
160900             IF PLANT-CD-VR2Z (2) NOT = SPACE AND
161000                 ((PCT-COMP-VR2Z (2) = SPACE)
161100                 OR (PCT-COMP-VR2Z (2) NOT NUMERIC))
161200                 MOVE ALL "*" TO VR2-COMP-PCT2-ERR.
161300             IF PLANT-CD-VR2Z (3) NOT = SPACE AND
161400                 ((PCT-COMP-VR2Z (3) = SPACE)
161500                 OR (PCT-COMP-VR2Z (3) NOT NUMERIC))
161600                 MOVE ALL "*" TO VR2-COMP-PCT3-ERR.
161700             IF PLANT-CD-VR2Z (4) NOT = SPACE AND
161800                 ((PCT-COMP-VR2Z (4) = SPACE)
161900                 OR (PCT-COMP-VR2Z (4) NOT NUMERIC))
162000                 MOVE ALL "*" TO VR2-COMP-PCT4-ERR.
162100             IF VR-HDR-ASTERISK-LN1 = SPACES AND
162200                 VR2-HDR-ASTERISK-LN2 = SPACES
162300                 WRITE VR-VB-OT-REC FROM VR2-REC-HLD
162400                 ADD 1 TO GOOD-CTR
162500                 GO TO 675-EXIT-PRT-VR2.
162600             MOVE 1 TO ERR-FREE.
162700             ADD 1 TO ERROR-CTR.
162800             IF SWITCH-LINE1 = 1
162900                 PERFORM 690-WRT-ERROR-VR2
163000                 GO TO 675-EXIT-PRT-VR2
163100             ELSE
163200                 MOVE 1 TO SWITCH-LINE1
163300                 PERFORM 560-PRT-HDNG

```

```

163400      PERFORM 275-WRT-HDR-ST
163500      PERFORM 585-MV-HDR-DET-VR
163600      WRITE PRT-REC FROM VR-HDR-REC1 AFTER ADVANCING 2 LINES.
163700      WRITE PRT-REC FROM VR-HDR-REC2 AFTER ADVANCING 1 LINES.
163800      WRITE PRT-REC FROM VR-HDR-REC3 AFTER ADVANCING 1 LINES.
163900      WRITE PRT-REC FROM VR-HDR-DET-LN1 AFTER ADVANCING 2
164000                      LINES.
164100      WRITE PRT-REC FROM VR-HDR-ASTERISK-LN1 AFTER ADVANCING
164200                      1 LINES.
164300      WRITE PRT-REC FROM VR2-HDR-REC1 AFTER ADVANCING 2 LINES.
164400      WRITE PRT-REC FROM VR2-HDR-REC2 AFTER ADVANCING 1 LINES.
164500      WRITE PRT-REC FROM VR2-HDR-REC3 AFTER ADVANCING 1 LINES.
164600      ADD 11 TO LINE-CTR.
164700      PERFORM 690-WRT-ERROR-VR2.
164800 675-EXIT-PRT-VR2.
164900      EXIT.
165000 690-WRT-ERROR-VR2.
165100      MOVE SPACES TO VR2-HDR-DET-LN2.
165200      IF LINE-CTR > 50
165300          PERFORM 560-PRT-HDNG.
165400      MOVE LIN-NUM-VR2Z TO VR2-LIN-NUM-P.
165500      MOVE PLANT-CD-VR2Z (1) TO VR2-PLANT-CD1-P.
165600      MOVE PCT-COMP-VR2Z (1) TO VR2-COMP-PCT1-P.
165700      MOVE PLANT-CD-VR2Z (2) TO VR2-PLANT-CD2-P.
165800      MOVE PCT-COMP-VR2Z (2) TO VR2-COMP-PCT2-P.
165900      MOVE PLANT-CD-VR2Z (3) TO VR2-PLANT-CD3-P.
166000      MOVE PCT-COMP-VR2Z (3) TO VR2-COMP-PCT3-P.
166100      MOVE PLANT-CD-VR2Z (4) TO VR2-PLANT-CD4-P.
166200      MOVE PCT-COMP-VR2Z (4) TO VR2-COMP-PCT4-P.
166300      WRITE PRT-REC FROM VR2-HDR-DET-LN2 AFTER ADVANCING 2 LINES.
166400      WRITE PRT-REC FROM VR2-HDR-ASTERISK-LN2 AFTER ADVANCING
166500                      1 LINES.
166600      MOVE SPACES TO VR2-HDR-ASTERISK-LN2.
166700      ADD 3 TO LINE-CTR.
166800 700-CHK-VR3D.
166900      IF HLD-RNG-SITE-ID = RNG-SITE-ID-VR3Z NEXT SENTENCE
167000      ELSE
167100          MOVE 0 TO RNGE-SITE-SAME
167200          MOVE SPACES TO HDR-VR-RNG-SITE-NO-ERR
167300          MOVE "VR3 EDIT ERROR LISTING" TO HDR-VR-TIT
167400          MOVE 0 TO SWITCH-LINE1
167500          MOVE ADST-CD-VR3Z TO HLD-ST
167600          MOVE REC-TYP-HLD TO REC-TYP-HLD-2
167700          MOVE RNG-SITE-ID-VR3Z TO HLD-RNG-SITE-ID
167800          PERFORM 710-CHK-RNGSITE THRU 735-EXIT
167900          PERFORM 550-PRT-HDNG-VR
168000          GO TO 720-EDIT-VR3D.
168100      MOVE 1 TO RNGE-SITE-SAME.
168200      IF HLD-ST = ADST-CD-VR3Z NEXT SENTENCE
168300      ELSE
168400          MOVE 1 TO PAGE-CTR
168500          MOVE "VR3 EDIT ERROR LISTING" TO HDR-VR-TIT
168600          MOVE 0 TO SWITCH-LINE1
168700          MOVE ADST-CD-VR1Z TO HLD-ST
168800          MOVE REC-TYP-HLD TO REC-TYP-HLD-2
168900          PERFORM 550-PRT-HDNG-VR.
169000 720-EDIT-VR3D.

```



```

169100     IF  REC-TYP-HLD-2 NOT = "VR3D"
169200         MOVE ALL "*" TO HDR-VR-REC-TYP-ERR.
169300     IF  ACTION-CD-VR3Z NOT = "A" AND "D"
169400         MOVE "*" TO HDR-VR-ACTN-ERR.
169500         GO TO 740-CHK-SOIL.
169600 710-CHK-RNGSITE.
169700     IF  RNG-SITE-ID-VR1Z = ZERO OR
169800         RNG-SITE-ID-VR1Z = SPACE
169900         MOVE ALL "*" TO HDR-VR-RNG-SITE-NO-ERR.
170000     MOVE RNG-SITE-ID-VR1Z TO RANGE-SITE-ID.
170100     EXAMINE MLRA TALLYING ALL SPACE.
170200     IF  TALLY > ZERO
170300         MOVE ALL "*" TO HDR-VR-RNG-SITE-NO-ERR.
170400     MOVE 8 TO I.
170500     PERFORM 580-EXAMINE-ID UNTIL I < 1 OR RNG-CHAR (I)
170600         NOT = SPACE.
170700     EXAMINE RNG-NUM TALLYING UNTIL FIRST SPACE.
170800     IF  I > 0
170900         IF  TALLY NOT = I
171000             MOVE ALL "*" TO HDR-VR-RNG-SITE-NO-ERR.
171100     IF  RNG-SITE-ID-4-VR1Z = "G58C" OR "G59C"
171200         GO TO 730-CHK-RNG-SITE-VR3Z.
171300     MOVE RNG-SITE-ID-4-VR1Z TO DE-CD-8822-DEC.
171400     MOVE "3902" TO DE-NO-8801-DEC.
171500     FIND ANY CODE-DEC.
171600     MOVE DB-STATUS TO DB-STAT.
171700     IF  NOT OK
171800         MOVE ALL "*" TO VR-RNGSITE-ERR-4.
171900 730-CHK-RNG-SITE-VR3Z.
172000     IF  RNG-SITE-ID-3-VR1Z NOT NUMERIC
172100         MOVE ALL "*" TO VR-RNGSITE-ERR-3.
172200 735-EXIT.
172300     EXIT.
172400 740-CHK-SOIL.
172500*     IF  SOIL-PHAS-VR3Z (1) NOT = SPACE
172600*         AND SOIL-NAM-VR3Z (1) = SPACE
172700*         MOVE ALL "*" TO VR3-SOIL-NM1-ERR.
172800*     IF  SOIL-PHAS-VR3Z (2) NOT = SPACE
172900*         AND SOIL-NAM-VR3Z (2) = SPACE
173000*         MOVE ALL "*" TO VR3-SOIL-NM2-ERR.
173100     IF  VR-HDR-ASTERISK-LN1 = SPACES AND
173200         VR3-HDR-ASTERISK-LN2 = SPACES
173300         WRITE VR-VB-OT-REC FROM VR-VB-REC-HLD
173400         ADD 1 TO GOOD-CTR
173500         GO TO 785-EXIT-PRT-VR3.
173600     MOVE 1 TO ERR-FREE.
173700     ADD 1 TO ERROR-CTR.
173800     IF  SWITCH-LINE1 = 1
173900         PERFORM 790-WRT-ERROR-VR3
174000         GO TO 785-EXIT-PRT-VR3
174100     ELSE
174200         MOVE 1 TO SWITCH-LINE1
174300         PERFORM 560-PRT-HDNG
174400         PERFORM 275-WRT-HDR-ST
174500         PERFORM 585-MV-HDR-DET-VR
174600         WRITE PRT-REC FROM VR-HDR-REC1 AFTER ADVANCING 2 LINES.
174700         WRITE PRT-REC FROM VR-HDR-REC2 AFTER ADVANCING 1 LINES.

```

```

174800 WRITE PRT-REC FROM VR-HDR-REC3 AFTER ADVANCING 1 LINES.
174900 WRITE PRT-REC FROM VR-HDR-DET-LN1 AFTER ADVANCING
175000 2 LINES.
175100 WRITE PRT-REC FROM VR-HDR-ASTERISK-LN1 AFTER ADVANCING
175200 1 LINES.
175300 WRITE PRT-REC FROM VR3-HDR-REC1 AFTER ADVANCING 2 LINES.
175400 WRITE PRT-REC FROM VR3-HDR-REC2 AFTER ADVANCING 1 LINES.
175500 WRITE PRT-REC FROM VR3-HDR-REC3 AFTER ADVANCING 1 LINES.
175600 ADD 11 TO LINE-CTR.
175700 PERFORM 790-WRT-ERROR-VR3.
175800 785-EXIT-PRT-VR3.
175900 EXIT.
176000 790-WRT-ERROR-VR3.
176100 MOVE SPACES TO VR3-HDR-DET-LN2.
176200 IF LINE-CTR > 50
176300 PERFORM 560-PRT-HDNG.
176400 MOVE LIN-NUM-VR3Z TO VR3-LIN-NUM-P.
176500 MOVE SOIL-PHAS-VR3Z (1) TO VR3-SOIL-PHASE1-P.
176600 MOVE SOIL-NAM-VR3Z (1) TO VR3-SOIL-NM1-P.
176700 MOVE SOIL-PHAS-VR3Z (2) TO VR3-SOIL-PHASE2-P.
176800 MOVE SOIL-NAM-VR3Z (2) TO VR3-SOIL-NM2-P.
176900 WRITE PRT-REC FROM VR3-HDR-DET-LN2 AFTER ADVANCING 2 LINES.
177000 WRITE PRT-REC FROM VR3-HDR-ASTERISK-LN2 AFTER ADVANCING
177100 1 LINES.
177200 ADD 3 TO LINE-CTR.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES410U.
000300* INITIAL EDIT/UPDATE OF LIVESTOCK (VL) AND
000400* WILDLIFE (VW) USE DATA.
000500*
000600 AUTHOR. CARLANDER.
000700 INSTALLATION. BLM.
000800 DATE-WRITTEN. AUGUST 1979.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.
001200 OBJECT-COMPUTER. LEVEL-66-ASCII SEQUENCE IS EBCDIC.
001300 INPUT-OUTPUT SECTION.
001400 FILE-CONTROL.
001500 SELECT NEW-FILE ASSIGN D1
001600 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001700 SELECT TRAN-FILE ASSIGN I1
001800 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001900 SELECT OPTIONAL PREV-FILE ASSIGN I2
002000 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002100 SELECT SORT-WORK ASSIGN I1 I2 I3.
002200 DATA DIVISION.
002300 FILE SECTION.
002400*
002500 FD PREV-FILE
002600 CODE-SET IS GBCD
002700 LABEL RECORDS ARE STANDARD
002800 DATA RECORDS ARE VL1X-RCD VW1X-RCD.
002900 01 VL1X-RCD.
003000 02 REC-TYP-3529-VL1X PIC X(02).
003100 02 FMT-NUM-3576-VL1X PIC X(01).

```

003200 02 FMT-CD-3579-VL1X PIC X(01).  
003300 02 SDRP-VL1X.  
003400 03 BLM-ADM-U-ST-0003-VL1X PIC X(02).  
003500 03 BLM-ADM-U-DIST-0003-VL1X PIC X(02).  
003600 03 BLM-ADM-U-RA-0003-VL1X PIC X(02).  
003700 03 BLM-ADM-U-PLU-0003-VL1X PIC X(02).  
003800 02 DATA-DATE-6618-VL1X PIC X(06).  
003900 02 ACTN-CD-7350-VL1X PIC X(01).  
004000 02 LIN-NUM-3578-VL1X PIC X(04).  
004100 02 VL1X-DATA OCCURS 2 TIMES.  
004200 03 ALLOT-NUM-0968-VL1X PIC X(04).  
004300 03 PASTURE-NUM-3905-VL1X PIC X(02).  
004400 03 ANML-GRZG-CD-3929-VL1X PIC X(02).  
004500 03 ANML-EST-POP-3926-VL1X PIC X(05).  
004600 03 USE-DATES-3845-1ST-VL1X PIC X(04).  
004700 03 USE-DATES-3845-END-VL1X PIC X(04).  
004800 02 VL1X-OPEN PIC X(13).  
004900 01 VW1X-RCD.  
005000 02 REC-TYP-3529-VW1X PIC X(02).  
005100 02 FMT-NUM-3576-VW1X PIC X(01).  
005200 02 FMT-CD-3579-VW1X PIC X(01).  
005300 02 SDRP-VW1X.  
005400 03 BLM-ADM-U-ST-0003-VW1X PIC X(02).  
005500 03 BLM-ADM-U-DIST-0003-VW1X PIC X(02).  
005600 03 BLM-ADM-U-RA-0003-VW1X PIC X(02).  
005700 03 BLM-ADM-U-PLU-0003-VW1X PIC X(02).  
005800 02 DATA-DATE-6618-VW1X PIC X(06).  
005900 02 ACTN-CD-7350-VW1X PIC X(01).  
006000 02 LIN-NUM-3578-VW1X PIC X(04).  
006100 02 HERD-UNIT-NUM-6598-VW1X PIC X(08).  
006200 02 ALLOT-NUM-0968-VW1X PIC X(04).  
006300 02 HERD-UNIT-ALLOT-PCT-3927-VW1X PIC X(03).  
006400 02 ANML-GRZG-CD-3929-VW1X PIC X(02).  
006500 02 ANML-EST-POP-3926-VW1X PIC X(05).  
006600 02 USE-DATES-3845-1ST-VW1X PIC X(04).  
006700 02 USE-DATES-3845-END-VW1X PIC X(04).  
006800 02 SWA-3507-VW1X PIC X(04) OCCURS 5 TIMES.  
006900 02 VW1X-OPEN PIC X(05).  
007000\*  
007100 FD TRAN-FILE  
007200 CODE-SET IS GBCD  
007300 LABEL RECORDS ARE STANDARD  
007400 DATA RECORDS ARE RCD-TF.  
007500 01 RCD-TF.  
007600 03 REC-TYP-TF PIC X(02).  
007700 03 FILLER PIC X(16).  
007800 03 ACTN-CD-TF PIC X.  
007900 03 LINE-TF PIC X(04).  
008000 03 ALLOT-VL-TF PIC XXXX.  
008100 03 PAST-VL-TF PIC XX.  
008200 03 ANML-CD-VL-TF PIC XX.  
008300 03 ALLOT-VW-TF PIC XXXX.  
008400 03 FILLER PIC XXX.  
008500 03 ANML-CD-VW-TF PIC XX.  
008600 03 FILLER PIC X(38).  
008700\*  
008800 FD NEW-FILE

008900 CODE-SET IS GBCD  
009000 LABEL RECORDS ARE STANDARD  
009100 DATA RECORDS ARE VL1Z-RCD VW1Z-RCD.  
009200 01 VL1Z-RCD.  
009300 02 REC-TYP-3529-VL1Z PIC X(02).  
009400 02 FMT-NUM-3576-VL1Z PIC X(01).  
009500 02 FMT-CD-3579-VL1Z PIC X(01).  
009600 02 SDRP-VL1Z.  
009700 03 BLM-ADM-U-ST-0003-VL1Z PIC X(02).  
009800 03 BLM-ADM-U-DIST-0003-VL1Z PIC X(02).  
009900 03 BLM-ADM-U-RA-0003-VL1Z PIC X(02).  
010000 03 BLM-ADM-U-PLU-0003-VL1Z PIC X(02).  
010100 02 DATA-DATE-6618-VL1Z PIC X(06).  
010200 02 ACTN-CD-7350-VL1Z PIC X(01).  
010300 02 LIN-NUM-3578-VL1Z PIC X(04).  
010400 02 VL1Z-DATA OCCURS 2 TIMES.  
010500 03 ALLOT-NUM-0968-VL1Z PIC X(04).  
010600 03 PASTURE-NUM-3905-VL1Z PIC X(02).  
010700 03 ANML-GRZG-CD-3929-VL1Z PIC X(02).  
010800 03 ANML-EST-POP-3926-VL1Z PIC X(05).  
010900 03 USE-DATES-3845-1ST-VL1Z PIC X(04).  
011000 03 USE-DATES-3845-END-VL1Z PIC X(04).  
011100 02 VL1Z-OPEN PIC X(13).  
011200 01 VW1Z-RCD.  
011300 02 REC-TYP-3529-VW1Z PIC X(02).  
011400 02 FMT-NUM-3576-VW1Z PIC X(01).  
011500 02 FMT-CD-3579-VW1Z PIC X(01).  
011600 02 SDRP-VW1Z.  
011700 03 BLM-ADM-U-ST-0003-VW1Z PIC X(02).  
011800 03 BLM-ADM-U-DIST-0003-VW1Z PIC X(02).  
011900 03 BLM-ADM-U-RA-0003-VW1Z PIC X(02).  
012000 03 BLM-ADM-U-PLU-0003-VW1Z PIC X(02).  
012100 02 DATA-DATE-6618-VW1Z PIC X(06).  
012200 02 ACTN-CD-7350-VW1Z PIC X(01).  
012300 02 LIN-NUM-3578-VW1Z PIC X(04).  
012400 02 HERD-UNIT-NUM-6598-VW1Z PIC X(08).  
012500 02 ALLOT-NUM-0968-VW1Z PIC X(04).  
012600 02 HERD-UNIT-ALLOT-PCT-3927-VW1Z PIC X(03).  
012700 02 ANML-GRZG-CD-3929-VW1Z PIC X(02).  
012800 02 ANML-EST-POP-3926-VW1Z PIC X(05).  
012900 02 USE-DATES-3845-1ST-VW1Z PIC X(04).  
013000 02 USE-DATES-3845-END-VW1Z PIC X(04).  
013100 02 SWA-3507-VW1Z PIC X(04) OCCURS 5 TIMES.  
013200 02 VW1Z-OPEN PIC X(05).  
013300\*  
013400 SD SORT-WORK  
013500 DATA RECORD IS SORT-RCD.  
013600 01 SORT-RCD.  
013700 03 SORT-REC.  
013800 05 SR-1-12.  
013900 07 SR-1-2 PIC X(02).  
014000 07 SR-3-12 PIC X(10).  
014100 05 SR-13-19 PIC X(07).  
014200 05 SR-LINE PIC X(04).  
014300 05 SR-DATA PIC X(55).  
014400 03 SR-KEYS.  
014500 05 SR-ALLOT PIC XXXX.

014600 05 SR-PAST PIC XX.  
014700 05 SR-ANML-CD PIC XX.  
014800 03 FILLER PIC XXXX.  
014900\*  
015000 WORKING-STORAGE SECTION.  
015100 77 END-OF-TRAN PIC X(01) VALUE " ".  
015200 77 END-OF-PREV PIC X(01) VALUE " ".  
015300 77 LAST-LIN-NUM PIC 9(04) VALUE 0000.  
015400 77 DATE-SW PIC X(01).  
015500 77 DATE-MV-SW PIC X(01).  
015600 77 TODAYS-DATE PIC X(06).  
015700 77 SORT-SV PIC X(78) VALUE SPACES.  
015800\*  
015900 01 PARAMETER.  
016000 03 RELINE-CHK PIC XXX.  
016100 03 FILLER PIC X(77).  
016200 01 CTRS.  
016300 02 VL-CTR PIC 99999 VALUE 0.  
016400 02 VW-CTR PIC 99999 VALUE 0.  
016500\*  
016600 01 DATE-WORK.  
016700 02 DW-YY PIC X(02).  
016800 02 DW-MM PIC X(02).  
016900 02 DW-DD PIC X(02).  
017000 01 MOVED-DATE.  
017100 02 MD-DD PIC XX.  
017200 02 MD-YY PIC XX.  
017300 02 MD-MM PIC XX.  
017400\*  
017500 01 TRAN-CTL.  
017600 02 TC-1-12 PIC X(12) VALUE SPACES.  
017700 02 TC-LINE PIC X(04) VALUE SPACES.  
017800 01 PREV-CTL.  
017900 02 PC-1-12 PIC X(12) VALUE SPACES.  
018000 02 PC-13-16 PIC X(04) VALUE SPACES.  
018100\*  
018200 01 CTL PIC X(12).  
018300 01 CTL-SAVE PIC X(12) VALUE SPACES.  
018400\*  
018500 01 VL1K-RCD.  
018600 02 REC-TYP-3529-VL1K PIC X(02).  
018700 02 FMT-NUM-3576-VL1K PIC X(01).  
018800 02 FMT-CD-3579-VL1K PIC X(01).  
018900 02 SDRP-VL1K.  
019000 03 BLM-ADM-U-ST-0003-VL1K PIC X(02).  
019100 03 BLM-ADM-U-DIST-0003-VL1K PIC X(02).  
019200 03 BLM-ADM-U-RA-0003-VL1K PIC X(02).  
019300 03 BLM-ADM-U-PLU-0003-VL1K PIC X(02).  
019400 02 DATA-DATE-6618-VL1K PIC X(06).  
019500 02 ACTN-CD-7350-VL1K PIC X(01).  
019600 02 LIN-NUM-3578-VL1K PIC X(04).  
019700 02 VL1K-DATA OCCURS 2 TIMES.  
019800 03 ALLOT-NUM-0968-VL1K PIC X(04).  
019900 03 PASTURE-NUM-3905-VL1K PIC X(02).  
020000 03 ANML-GRZG-CD-3929-VL1K PIC X(02).  
020100 03 ANML-EST-POP-3926-VL1K PIC X(05).  
020200 03 USE-DATES-3845-1ST-VL1K PIC X(04).

```

020300      03 USE-DATES-3845-END-VL1K PIC X(04).
020400      02 VL1K-OPEN                PIC X(13).
020500 01  VW1K-RCD.
020600      02 REC-TYP-3529-VW1K        PIC X(02).
020700      02 FMT-NUM-3576-VW1K        PIC X(01).
020800      02 FMT-CD-3579-VW1K        PIC X(01).
020900      02 SDRP-VW1K.
021000      03 BLM-ADM-U-ST-0003-VW1K   PIC X(02).
021100      03 BLM-ADM-U-DIST-0003-VW1K PIC X(02).
021200      03 BLM-ADM-U-RA-0003-VW1K  PIC X(02).
021300      03 BLM-ADM-U-PLU-0003-VW1K  PIC X(02).
021400      02 DATA-DATE-6618-VW1K     PIC X(06).
021500      02 ACTN-CD-7350-VW1K        PIC X(01).
021600      02 LIN-NUM-3578-VW1K        PIC X(04).
021700      02 HERD-UNIT-NUM-6598-VW1K  PIC X(08).
021800      02 ALLOT-NUM-0968-VW1K      PIC X(04).
021900      02 HERD-UNIT-ALLOT-PCT-3927-VW1K PIC X(03).
022000      02 ANML-GRZG-CD-3929-VW1K   PIC X(02).
022100      02 ANML-EST-POP-3926-VW1K   PIC X(05).
022200      02 USE-DATES-3845-1ST-VW1K  PIC X(04).
022300      02 USE-DATES-3845-END-VW1K  PIC X(04).
022400      02 SWA-3507-VW1K            PIC X(04) OCCURS 5 TIMES.
022500      02 VW1K-OPEN                PIC X(05).
022600*
022700 PROCEDURE DIVISION.
022800*
022900 000-DRIVER SECTION.
023000 010-MAINLINE.
023100      PERFORM 100-INITIALIZE.
023200      PERFORM 200-SORT.
023300      PERFORM 990-TERMINATE.
023400      STOP RUN.
023500*
023600 100-INITIALIZE SECTION.
023700 110-OPENS.
023800      OPEN INPUT PREV-FILE TRAN-FILE
023900          OUTPUT NEW-FILE.
024000      MOVE ALL "9" TO PREV-CTL.
024100      ACCEPT TODAYS-DATE FROM DATE.
024200      ACCEPT PARAMETER.
024300*
024400 200-SORT SECTION.
024500 210-SORT-VERB.
024600      SORT SORT-WORK
024700          ASCENDING SR-1-12 SR-LINE SR-KEYS
024800          INPUT PROCEDURE 300-READ-FORMAT
024900          OUTPUT PROCEDURE 400-MATCH-UPDATE.
025000*
025100 300-READ-FORMAT SECTION.
025200 310-READ.
025300      READ TRAN-FILE
025400          AT END GO TO 300-EXIT.
025500      IF ACTN-CD-TF = SPACE
025600          MOVE "A" TO ACTN-CD-TF.
025700      MOVE RCD-TF TO SORT-RCD.
025800      IF (SR-LINE NOT NUMERIC) OR (SR-LINE = "0000")
025900          OR (RELIN-CHK = "YES")

```

```

026000         MOVE "9999" TO SR-LINE.
026100         MOVE SPACE TO SR-KEYS.
026200         IF REC-TYP-TF = "VL"
026300             MOVE ALLOT-VL-TF TO SR-ALLOT
026400             MOVE PAST-VL-TF TO SR-PAST
026500             MOVE ANML-CD-VL-TF TO SR-ANML-CD.
026600         IF REC-TYP-TF = "VW"
026700             MOVE ALLOT-VW-TF TO SR-ALLOT
026800             MOVE ANML-CD-VW-TF TO SR-ANML-CD.
026900         RELEASE SORT-RCD.
027000         GO TO 310-READ.
027100 300-EXIT.
027200         EXIT.
027300*
027400 400-MATCH-UPDATE SECTION.
027500 410-GET-FIRST-RCDS.
027600         PERFORM 430-RETURN-SORT.
027700         PERFORM 440-READ-PREV.
027800 420-COMPARE.
027900         IF TRAN-CTL IS EQUAL TO ALL "9" AND
028000             PREV-CTL IS EQUAL TO ALL "9"
028100             GO TO 400-EXIT.
028200         IF TRAN-CTL IS GREATER THAN PREV-CTL
028300             PERFORM 500-NO-TRAN
028400             GO TO 420-COMPARE.
028500         IF PREV-CTL IS GREATER THAN TRAN-CTL
028600             PERFORM 600-NO-PREV
028700             GO TO 420-COMPARE.
028800         IF TRAN-CTL IS EQUAL TO PREV-CTL
028900             PERFORM 700-MATCH.
029000         GO TO 420-COMPARE.
029100 430-RETURN-SORT.
029200         RETURN SORT-WORK AT END
029300             MOVE "X" TO END-OF-TRAN.
029400         IF SORT-REC = SORT-SV AND
029500             END-OF-TRAN NOT = "X"
029600             GO TO 430-RETURN-SORT.
029700         MOVE SORT-REC TO SORT-SV.
029800         IF SR-1-2 IS EQUAL TO "VL"
029900             MOVE SORT-REC TO VL1K-RCD
030000             ELSE
030100             MOVE SORT-REC TO VW1K-RCD.
030200         MOVE SORT-REC TO TRAN-CTL.
030300         MOVE SR-LINE TO TC-LINE.
030400         IF END-OF-TRAN IS EQUAL TO "X"
030500             MOVE ALL "9" TO TRAN-CTL.
030600 440-READ-PREV.
030700         READ PREV-FILE AT END
030800             MOVE "X" TO END-OF-PREV.
030900         MOVE VL1X-RCD TO PREV-CTL.
031000         MOVE LIN-NUM-3578-VL1X TO PC-13-16.
031100         IF END-OF-PREV = "X"
031200             MOVE ALL "9" TO PREV-CTL.
031300*
031400 500-NO-TRAN.
031500         MOVE VL1X-RCD         TO VL1Z-RCD.
031600         PERFORM 800-ADD-TO-CTRS.

```

```

031700     PERFORM 920-WRITE-Z-RCD.
031800     PERFORM 440-READ-PREV.
031900*
032000 600-NO-PREV.
032100     MOVE SORT-REC TO VL1Z-RCD.
032200     PERFORM 800-ADD-TO-CTRS.
032300     PERFORM 830-CHECK-LIN-NUM THRU 830-OUT.
032400     PERFORM 890-EDIT-DATE.
032500     PERFORM 920-WRITE-Z-RCD.
032600     PERFORM 430-RETURN-SORT.
032700*
032800 700-MATCH.
032900     MOVE VL1X-RCD TO VL1Z-RCD.
033000     PERFORM 890-EDIT-DATE.
033100     IF SR-DATA NOT = SPACES AND
033200         REC-TYP-3529-VL1Z = "VL"
033300         PERFORM 850-MOVE-VL-FIELDS
033400         PERFORM 800-ADD-TO-CTRS
033500         PERFORM 920-WRITE-Z-RCD.
033600     IF SR-DATA NOT = SPACES AND
033700         REC-TYP-3529-VL1Z = "VW"
033800         PERFORM 860-MOVE-VW-FIELDS
033900         PERFORM 800-ADD-TO-CTRS
034000         PERFORM 920-WRITE-Z-RCD.
034100     PERFORM 430-RETURN-SORT.
034200     PERFORM 440-READ-PREV.
034300*
034400 800-ADD-TO-CTRS.
034500     IF REC-TYP-3529-VL1Z = "VL"
034600         ADD 1 TO VL-CTR
034700         ELSE
034800         ADD 1 TO VW-CTR.
034900*
035000 830-CHECK-LIN-NUM.
035100     IF LIN-NUM-3578-VL1Z NOT = ALL "9"
035200         GO TO 830-OUT.
035300     MOVE VL1Z-RCD TO CTL.
035400     IF CTL NOT = CTL-SAVE
035500         MOVE 0001 TO LAST-LIN-NUM
035600         MOVE "0001" TO LIN-NUM-3578-VL1Z
035700     ELSE
035800         ADD 1 TO LAST-LIN-NUM
035900         MOVE LAST-LIN-NUM TO LIN-NUM-3578-VL1Z.
036000     MOVE CTL TO CTL-SAVE.
036100 830-OUT.
036200     EXIT.
036300*
036400 850-MOVE-VL-FIELDS.
036500     IF ALLOT-NUM-0968-VL1K (1) = SPACES
036600         NEXT SENTENCE
036700     ELSE
036800         IF ALLOT-NUM-0968-VL1K (1) = "*****"
036900             MOVE SPACES TO ALLOT-NUM-0968-VL1Z (1)
037000         ELSE
037100             MOVE ALLOT-NUM-0968-VL1K (1) TO ALLOT-NUM-0968-VL1Z (1).
037200     IF PASTURE-NUM-3905-VL1K (1) = SPACES
037300         NEXT SENTENCE

```



```

037400      ELSE
037500          IF PASTURE-NUM-3905-VL1K (1) = "***"
037600              MOVE SPACES TO PASTURE-NUM-3905-VL1Z (1)
037700          ELSE
037800      MOVE PASTURE-NUM-3905-VL1K (1) TO PASTURE-NUM-3905-VL1Z (1).
037900      IF ANML-GRZG-CD-3929-VL1K (1) = SPACES
038000          NEXT SENTENCE
038100      ELSE
038200          IF ANML-GRZG-CD-3929-VL1K (1) = "***"
038300              MOVE SPACES TO ANML-GRZG-CD-3929-VL1Z (1)
038400          ELSE
038500      MOVE ANML-GRZG-CD-3929-VL1K (1) TO
038600          ANML-GRZG-CD-3929-VL1Z (1).
038700      IF ANML-EST-POP-3926-VL1K (1) = SPACES
038800          NEXT SENTENCE
038900      ELSE
039000*          IF ANML-EST-POP-3926-VL1K (1) = "*****"
039100          IF ANML-EST-POP-3926-VL1K (1) = "00000"
039200              MOVE SPACES TO ANML-EST-POP-3926-VL1Z (1)
039300          ELSE
039400      MOVE ANML-EST-POP-3926-VL1K (1) TO
039500          ANML-EST-POP-3926-VL1Z (1).
039600      IF USE-DATES-3845-END-VL1K (1) = SPACES
039700          NEXT SENTENCE
039800      ELSE
039900          IF USE-DATES-3845-END-VL1K (1) = "*****"
040000              MOVE SPACES TO USE-DATES-3845-END-VL1Z (1)
040100          ELSE
040200      MOVE USE-DATES-3845-END-VL1K (1) TO
040300          USE-DATES-3845-END-VL1Z (1).
040400      IF USE-DATES-3845-1ST-VL1K (1) = SPACES
040500          NEXT SENTENCE
040600      ELSE
040700          IF USE-DATES-3845-1ST-VL1K (1) = "*****"
040800              MOVE SPACES TO USE-DATES-3845-1ST-VL1Z (1)
040900          ELSE
041000      MOVE USE-DATES-3845-1ST-VL1K (1) TO
041100          USE-DATES-3845-1ST-VL1Z (1).
041200      IF ALLOT-NUM-0968-VL1K (2) = SPACES
041300          NEXT SENTENCE
041400      ELSE
041500          IF ALLOT-NUM-0968-VL1K (2) = "*****"
041600              MOVE SPACES TO ALLOT-NUM-0968-VL1Z (2)
041700          ELSE
041800      MOVE ALLOT-NUM-0968-VL1K (2) TO ALLOT-NUM-0968-VL1Z (2).
041900      IF PASTURE-NUM-3905-VL1K (2) = SPACES
042000          NEXT SENTENCE
042100      ELSE
042200          IF PASTURE-NUM-3905-VL1K (2) = "***"
042300              MOVE SPACES TO PASTURE-NUM-3905-VL1Z (2)
042400          ELSE
042500      MOVE PASTURE-NUM-3905-VL1K (2) TO PASTURE-NUM-3905-VL1Z (2).
042600      IF ANML-GRZG-CD-3929-VL1K (2) = SPACES
042700          NEXT SENTENCE
042800      ELSE
042900          IF ANML-GRZG-CD-3929-VL1K (2) = "***"
043000              MOVE SPACES TO ANML-GRZG-CD-3929-VL1Z (2)

```

```

043100             ELSE
043200 MOVE ANML-GRZG-CD-3929-VL1K (2) TO
043300             ANML-GRZG-CD-3929-VL1Z (2).
043400 IF ANML-EST-POP-3926-VL1K (2) = SPACES
043500             NEXT SENTENCE
043600             ELSE
043700*             IF ANML-EST-POP-3926-VL1K (2) = "*****"
043800             IF ANML-EST-POP-3926-VL1K (2) = "00000"
043900                 MOVE SPACES TO ANML-EST-POP-3926-VL1Z (2)
044000             ELSE
044100 MOVE ANML-EST-POP-3926-VL1K (2) TO
044200             ANML-EST-POP-3926-VL1Z (2).
044300 IF USE-DATES-3845-END-VL1K (2) = SPACES
044400             NEXT SENTENCE
044500             ELSE
044600             IF USE-DATES-3845-END-VL1K (2) = "*****"
044700                 MOVE SPACES TO USE-DATES-3845-END-VL1Z (2)
044800             ELSE
044900 MOVE USE-DATES-3845-END-VL1K (2) TO
045000             USE-DATES-3845-END-VL1Z (2).
045100 IF USE-DATES-3845-1ST-VL1K (2) = SPACES
045200             NEXT SENTENCE
045300             ELSE
045400             IF USE-DATES-3845-1ST-VL1K (2) = "*****"
045500                 MOVE SPACES TO USE-DATES-3845-1ST-VL1Z (2)
045600             ELSE
045700 MOVE USE-DATES-3845-1ST-VL1K (2) TO
045800             USE-DATES-3845-1ST-VL1Z (2).
045900*
046000 860-MOVE-VW-FIELDS.
046100 IF HERD-UNIT-NUM-6598-VW1K = SPACES
046200             NEXT SENTENCE
046300             ELSE
046400             IF HERD-UNIT-NUM-6598-VW1K = "*****"
046500                 MOVE SPACES TO HERD-UNIT-NUM-6598-VW1Z
046600             ELSE
046700                 MOVE HERD-UNIT-NUM-6598-VW1K TO
046800                 HERD-UNIT-NUM-6598-VW1Z.
046900 IF ALLOT-NUM-0968-VW1K = SPACES
047000             NEXT SENTENCE
047100             ELSE
047200             IF ALLOT-NUM-0968-VW1K = "*****"
047300                 MOVE SPACES TO ALLOT-NUM-0968-VW1Z
047400             ELSE
047500                 MOVE ALLOT-NUM-0968-VW1K TO
047600                 ALLOT-NUM-0968-VW1Z.
047700 IF HERD-UNIT-ALLOT-PCT-3927-VW1K = SPACES
047800             NEXT SENTENCE
047900             ELSE
048000             IF HERD-UNIT-ALLOT-PCT-3927-VW1K = "****"
048100                 MOVE SPACES TO HERD-UNIT-ALLOT-PCT-3927-VW1Z
048200             ELSE
048300                 MOVE HERD-UNIT-ALLOT-PCT-3927-VW1K TO
048400                 HERD-UNIT-ALLOT-PCT-3927-VW1Z.
048500 IF ANML-GRZG-CD-3929-VW1K = SPACES
048600             NEXT SENTENCE
048700             ELSE

```

```

048800         IF ANML-GRZG-CD-3929-VW1K = "***"
048900             MOVE SPACES TO ANML-GRZG-CD-3929-VW1Z
049000             ELSE
049100             MOVE ANML-GRZG-CD-3929-VW1K TO
049200                 ANML-GRZG-CD-3929-VW1Z.
049300 IF ANML-EST-POP-3926-VW1K = SPACES
049400     NEXT SENTENCE
049500     ELSE
049600     IF ANML-EST-POP-3926-VW1K = "*****"
049700         MOVE SPACES TO ANML-EST-POP-3926-VW1Z
049800         ELSE
049900         MOVE ANML-EST-POP-3926-VW1K TO
050000             ANML-EST-POP-3926-VW1Z.
050100 IF USE-DATES-3845-1ST-VW1K = SPACES
050200     NEXT SENTENCE
050300     ELSE
050400     IF USE-DATES-3845-1ST-VW1K = "*****"
050500         MOVE SPACES TO USE-DATES-3845-1ST-VW1Z
050600         ELSE
050700         MOVE USE-DATES-3845-1ST-VW1K TO
050800             USE-DATES-3845-1ST-VW1Z.
050900 IF USE-DATES-3845-END-VW1K = SPACES
051000     NEXT SENTENCE
051100     ELSE
051200     IF USE-DATES-3845-END-VW1K = "*****"
051300         MOVE SPACES TO USE-DATES-3845-END-VW1Z
051400         ELSE
051500         MOVE USE-DATES-3845-END-VW1K TO
051600             USE-DATES-3845-END-VW1Z.
051700 IF SWA-3507-VW1K (1) = SPACES
051800     NEXT SENTENCE
051900     ELSE
052000     IF SWA-3507-VW1K (1) = "*****"
052100         MOVE SPACES TO SWA-3507-VW1Z (1)
052200         ELSE
052300         MOVE SWA-3507-VW1K (1) TO
052400             SWA-3507-VW1Z (1).
052500 IF SWA-3507-VW1K (2) = SPACES
052600     NEXT SENTENCE
052700     ELSE
052800     IF SWA-3507-VW1K (2) = "*****"
052900         MOVE SPACES TO SWA-3507-VW1Z (2)
053000         ELSE
053100         MOVE SWA-3507-VW1K (2) TO
053200             SWA-3507-VW1Z (2).
053300 IF SWA-3507-VW1K (3) = SPACES
053400     NEXT SENTENCE
053500     ELSE
053600     IF SWA-3507-VW1K (3) = "*****"
053700         MOVE SPACES TO SWA-3507-VW1Z (3)
053800         ELSE
053900         MOVE SWA-3507-VW1K (3) TO
054000             SWA-3507-VW1Z (3).
054100 IF SWA-3507-VW1K (4) = SPACES
054200     NEXT SENTENCE
054300     ELSE
054400     IF SWA-3507-VW1K (4) = "*****"

```

```

054500             MOVE SPACES TO SWA-3507-VW1Z (4)
054600             ELSE
054700             MOVE SWA-3507-VW1K (4) TO
054800             SWA-3507-VW1Z (4).
054900     IF SWA-3507-VW1K (5) = SPACES
055000             NEXT SENTENCE
055100             ELSE
055200             IF SWA-3507-VW1K (5) = "*****"
055300             MOVE SPACES TO SWA-3507-VW1Z (5)
055400             ELSE
055500             MOVE SWA-3507-VW1K (5) TO
055600             SWA-3507-VW1Z (5).
055700*
055800 890-EDIT-DATE.
055900     MOVE SPACE TO DATE-MV-SW.
056000     IF REC-TYP-3529-VL1Z = "VL"
056100             MOVE DATA-DATE-6618-VL1Z TO DATE-WORK
056200             ELSE
056300             MOVE DATA-DATE-6618-VW1Z TO DATE-WORK.
056400     PERFORM 900-EDIT-FIELDS.
056500     IF DATE-SW NOT = " "
056600             PERFORM 910-SWITCH-FIELDS
056700             PERFORM 900-EDIT-FIELDS.
056800     IF DATE-SW NOT = " " AND
056900             REC-TYP-3529-VL1Z = "VL"
057000             MOVE TODAYS-DATE TO DATA-DATE-6618-VL1Z.
057100     IF DATE-SW NOT = " " AND
057200             REC-TYP-3529-VL1Z = "VW"
057300             MOVE TODAYS-DATE TO DATA-DATE-6618-VW1Z.
057400     IF DATE-MV-SW NOT = " " AND
057500             REC-TYP-3529-VL1Z = "VL"
057600             MOVE MOVED-DATE TO DATA-DATE-6618-VL1Z.
057700     IF DATE-MV-SW NOT = " " AND
057800             REC-TYP-3529-VL1Z = "VW"
057900             MOVE MOVED-DATE TO DATA-DATE-6618-VW1Z.
058000 900-EDIT-FIELDS.
058100     MOVE SPACE TO DATE-SW.
058200     IF DW-MM NOT NUMERIC OR
058300             DW-MM > "12" OR
058400             DW-MM < "01"
058500             MOVE "X" TO DATE-SW.
058600     IF DW-DD NOT NUMERIC OR
058700             DW-DD < "01" OR
058800             DW-DD > "31"
058900             MOVE "X" TO DATE-SW.
059000     IF DW-YY NOT NUMERIC OR
059100             DW-YY < "78"
059200             MOVE "X" TO DATE-SW.
059300 910-SWITCH-FIELDS.
059400     IF DW-DD = "78" OR "79" OR "80" OR "81" OR "82"
059500             MOVE DW-MM TO MD-MM
059600             MOVE DW-DD TO MD-DD
059700             MOVE DW-YY TO MD-YY
059800             MOVE MOVED-DATE TO DATE-WORK
059900             MOVE "X" TO DATE-MV-SW.
060000*
060100 920-WRITE-Z-RCD.

```

```

060200     MOVE VL1Z-RCD TO CTL CTL-SAVE.
060300     MOVE LIN-NUM-3578-VW1Z TO LAST-LIN-NUM.
060400     IF REC-TYP-3529-VL1Z = "VL"
060500             MOVE SPACES TO VL1Z-OPEN     ELSE
060600             MOVE SPACES TO VW1Z-OPEN.
060700     MOVE "A" TO ACTN-CD-7350-VL1Z.
060800     WRITE VL1Z-RCD.
060900 400-EXIT.
061000     EXIT.
061100*
061200 990-TERMINATE SECTION.
061300 990-PRINT.
061400     DISPLAY "    VL    VW".
061500     DISPLAY VL-CTR " " VW-CTR.
061600 990-CLOSE.
061700     CLOSE PREV-FILE TRAN-FILE NEW-FILE.
061800*
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES415P.
000300*     VL / VW VERIFICATION LIST
000400*
000500 AUTHOR. CORA FISCHER.
000600 INSTALLATION.
000700 DATE-WRITTEN. 7/29/80.
000800 DATE-COMPILED.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.
001200 OBJECT-COMPUTER. LEVEL-66-ASCII.
001300 INPUT-OUTPUT SECTION.
001400 FILE-CONTROL.
001500     SELECT INPUT-FILE1 ASSIGN TO I1-ES410UD1
001600             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001700     SELECT PRINT-FILE ASSIGN TO P1-PRINTER
001800             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001900     SELECT SORT-FILE ASSIGN TO S1.
002000 DATA DIVISION.
002100 SUB-SCHEMA SECTION.
002200 DB CODVAL2 WITHIN BLMDIC.
002300 FILE SECTION.
002400 FD INPUT-FILE1             CODE-SET IS GBCD
002500                             LABEL RECORDS ARE STANDARD
002600                             DATA RECORDS ARE FDR-VL FDR-VW.
002700 01 FDR-VL.
002800     03 REC-TYPE-3529-VL-I1             PIC             X(02).
002900     03 FMT-NO-3576-VL-I1             PIC             X(01).
003000     03 FMT-CD-3579-VL-I1             PIC             X(01).
003100     03 ADM-UNIT-0003-VL-I1           PIC             X(08).
003200     03 DATA-DT-6618-VL-I1           PIC             X(06).
003300     03 ACT-CD-7350-VL-I1             PIC             X(01).
003400     03 LINE-NO-3578-VL-I1             PIC             X(04).
003500     03 LVSTK-USE-DATA-I1 OCCURS 2 TIMES.
003600     05 ALLOT-NUM-0968-VL-I1           PIC             X(04).
003700     05 PASTURE-NUM-3905-VL-I1        PIC             X(02).
003800     05 ANML-GRZG-CD-3929-VL-I1      PIC             X(02).
003900     05 ANML-EST-POP-3926-VL-I1      PIC             X(05).

```

004000		05	USE-DATES-3845-VL-I1.			
004100		07	USE-MO-DT-FR-3845-VL-I1	PIC		X(02).
004200		07	USE-DD-DT-FR-3845-VL-I1	PIC		X(02).
004300		07	USE-MO-DT-TO-3845-VL-I1	PIC		X(02).
004400		07	USE-DD-DT-TO-3845-VL-I1	PIC		X(02).
004500		03	FILLER	PIC		X(13).
004600	01		FDR-VW.			
004700		03	REC-TYPE-3529-VW-I1	PIC		X(02).
004800		03	FMT-NO-3576-VW-I1	PIC		X(01).
004900		03	FMT-CD-3579-VW-I1	PIC		X(01).
005000		03	ADM-UNIT-0003-VW-I1	PIC		X(08).
005100		03	DATA-DT-6618-VW-I1	PIC		X(06).
005200		03	ACT-CD-7350-VW-I1	PIC		X(01).
005300		03	LINE-NO-3578-VW-I1	PIC		X(04).
005400		03	HERD-UNIT-NUM-6598-VW-I1	PIC		X(08).
005500		03	ALLOT-NUM-0968-VW-I1	PIC		X(04).
005600		03	HERD-UNIT-ALLOT-PCT-3927-VW-I1	PIC		X(03).
005700		03	ANML-GRZG-CD-3929-VW-I1	PIC		X(02).
005800		03	ANML-EST-POP-3926-VW-I1	PIC		X(05).
005900		03	USE-DATES-3845-VW-I1.			
006000		05	USE-MO-DT-FR-3845-VW-I1	PIC		X(02).
006100		05	USE-DD-DT-FR-3845-VW-I1	PIC		X(02).
006200		05	USE-MO-DT-TO-3845-VW-I1	PIC		X(02).
006300		05	USE-DD-DT-FR-3845-VW-I1	PIC		X(02).
006400		03	SWA-3507-VW-I1	PIC	X(04)	OCCURS 5 TIMES.
006500		03	FILLER	PIC		X(05).
006600	FD		PRINT-FILE		CODE-SET IS GBCD	
006700					LABEL RECORDS ARE STANDARD	
006800					DATA RECORDS IS PRT-REC.	
006900	01		PRT-REC	PIC		X(132).
007000	SD		SORT-FILE		DATA RECORDS ARE S-KEY1	S-KEY2.
007100	01		S-KEY1.			
007200		03	S-KEY-DATA-VL-S1.			
007300		05	REC-TYPE-3529-VL-S1	PIC		X(02).
007400		05	FMT-NO-3576-VL-S1	PIC		X(01).
007500		05	FMT-CD-3579-VL-S1	PIC		X(01).
007600		05	ADM-UNIT-0003-VL-S1.			
007700		07	ADM-ST-0003-VL-S1	PIC		X(02).
007800		07	ADM-DI-0003-VL-S1	PIC		X(02).
007900		07	ADM-RA-0003-VL-S1	PIC		X(02).
008000		07	ADM-PU-0003-VL-S1	PIC		X(02).
008100		05	ALLOT-NUM1-0968-VL-S1	PIC		X(04).
008200		05	PASTURE-NUM1-3905-VL-S1	PIC		X(02).
008300		05	ANML-GRZG-CD1-3929-VL-S1	PIC		X(02).
008400		03	DATA-DT-6618-VL-S1	PIC		X(06).
008500		03	ACT-CD-7350-VL-S1	PIC		X(01).
008600		03	LINE-NO-3578-VL-S1	PIC		X(04).
008700		03	ANML-EST-POP1-3926-VL-S1	PIC		X(05).
008800		03	ANML-EST-POP2-3926-VL-S1	PIC		X(05).
008900		03	USE-DATES-3845-VL-S1		OCCURS 2 TIMES.	
009000		05	USE-MO-DT-FR-3845-VL-S1	PIC		X(02).
009100		05	USE-DD-DT-FR-3845-VL-S1	PIC		X(02).
009200		05	USE-MO-DT-TO-3845-VL-S1	PIC		X(02).
009300		05	USE-DD-DT-TO-3845-VL-S1	PIC		X(02).
009400		03	ALLOT-NUM2-0968-VL-S1	PIC		X(04).
009500		03	PASTURE-NUM2-3905-VL-S1	PIC		X(02).
009600		03	ANML-GRZG-CD2-3929-VL-S1	PIC		X(02).

009700	03	FILLER	PIC	X(13).
009800	01	S-KEY2.		
009900	03	S-KEY-DATA-VW-S1.		
010000	05	REC-TYPE-3529-VW-S1	PIC	X(02).
010100	05	FMT-NO-3576-VW-S1	PIC	X(01).
010200	05	FMT-CD-3579-VW-S1	PIC	X(01).
010300	05	ADM-UNIT-0003-VW-S1.		
010400	07	ADM-ST-0003-VW-S1	PIC	X(02).
010500	07	ADM-DI-0003-VW-S1	PIC	X(02).
010600	07	ADM-RA-0003-VW-S1	PIC	X(02).
010700	07	ADM-PU-0003-VW-S1	PIC	X(02).
010800	05	ALLOT-NUM-0968-VW-S1	PIC	X(04).
010900	05	FILLER	PIC	X(02).
011000	05	ANML-GRZG-CD-3929-VW-S1	PIC	X(02).
011100	03	DATA-DT-6618-VW-S1	PIC	X(06).
011200	03	ACT-CD-7350-VW-S1	PIC	X(01).
011300	03	LINE-NO-3578-VW-S1	PIC	X(04).
011400	03	HERD-UNIT-NUM-6598-VW-S1	PIC	X(08).
011500	03	HERD-UNIT-ALLOT-PCT-3927-VW-S1	PIC	X(03).
011600	03	ANML-EST-POP-3926-VW-S1	PIC	X(05).
011700	03	USE-DATES-3845-VW-S1.		
011800	05	USE-MO-DT-FR-3845-VW-S1	PIC	X(02).
011900	05	USE-DD-DT-FR-3845-VW-S1	PIC	X(02).
012000	05	USE-MO-DT-TO-3845-VW-S1	PIC	X(02).
012100	05	USE-DD-DT-TO-3845-VW-S1	PIC	X(02).
012200	03	SWA-3507-VW-S1	PIC X(04)	OCCURS 5 TIMES.
012300	03	FILLER	PIC	X(03).
012400	WORKING-STORAGE SECTION.			
012500	77	PAGE-CNT	PIC	9(05) VALUE 0.
012600	77	LINE-CNT	PIC	9(02) VALUE 66.
012700	77	VL-CNT	PIC	9(05) VALUE 0.
012800	77	VW-CNT	PIC	9(05) VALUE 0.
012900	01	HLD-REC-TYPE	PIC	X(02) VALUE SPACES.
013000	01	MONTH-TABLE.		
013100	03	MO-TAB.		
013200	05	FILLER	PIC	X(03) VALUE "JAN".
013300	05	FILLER	PIC	X(03) VALUE "FEB".
013400	05	FILLER	PIC	X(03) VALUE "MAR".
013500	05	FILLER	PIC	X(03) VALUE "APR".
013600	05	FILLER	PIC	X(03) VALUE "MAY".
013700	05	FILLER	PIC	X(03) VALUE "JUN".
013800	05	FILLER	PIC	X(03) VALUE "JUL".
013900	05	FILLER	PIC	X(03) VALUE "AUG".
014000	05	FILLER	PIC	X(03) VALUE "SEP".
014100	05	FILLER	PIC	X(03) VALUE "OCT".
014200	05	FILLER	PIC	X(03) VALUE "NOV".
014300	05	FILLER	PIC	X(03) VALUE "DEC".
014400	03	MON REDEFINES MO-TAB	PIC	X(03) OCCURS 12 TIMES.
014500	01	EOF-SWITCH	PIC	9 VALUE 0.
014600	88	EOF		VALUE 1.
014700	01	EOR-SWITCH	PIC	9 VALUE 0.
014800	88	EOR		VALUE 1.
014900	01	PARAMETER	PIC	X(04).
015000	01	HLD-DT.		
015100	03	HOLD-DT.		
015200	05	YR-DT	PIC	XX.
015300	05	MO-DT	PIC	99.

015400		05	DY-DT	PIC	XX.	
015500	03		INV-HLD.			
015600		05	INV-NM	PIC	X(20).	
015700		05	ST-DIST-CD.			
015800		07	ST-CD-HLD	PIC	X(02).	
015900		07	DI-CD-HLD	PIC	X(02).	
016000	03		EXPL-HLD.			
016100		05	DIST-NM-HLD	PIC	X(12).	
016200	03		FUNC-HLD.			
016300		05	ST-NM-HLD	PIC	X(10).	
016400		05	FILLER	PIC	X(14).	
016500			COPY DBSTATUS IN TPCOBOLIB.			
016600	01		HDR-1.			
016700		03	FILLER	PIC	X(08)	VALUE
016800			" DATE: " .			
016900	03		HDR-MO	PIC	X(03).	
017000	03		FILLER	PIC	X(01)	VALUE SPACE.
017100	03		HDR-DA	PIC	X(02).	
017200	03		FILLER	PIC	X(04)	VALUE ", 19".
017300	03		HDR-YR	PIC	X(02).	
017400	03		FILLER	PIC	X(21)	VALUE SPACES.
017500	03		FILLER	PIC	X(47)	VALUE
017600			"US DEPT OF INTERIOR - BUREAU OF LAND MANAGEMENT".			
017700	03		FILLER	PIC	X(29)	VALUE SPACES.
017800	03		FILLER	PIC	X(07)	VALUE
017900			"PAGE: " .			
018000	03		HDR-PG	PIC	ZZ,ZZ9.	
018100	03		FILLER	PIC	X(02)	VALUE SPACES.
018200	01		HDR-2.			
018300		03	FILLER	PIC	X(8)	VALUE
018400			"STATE: " .			
018500	03		HDR-ST-CD	PIC	X(02).	
018600	03		FILLER	PIC	X(04)	VALUE SPACES.
018700	03		HDR-ST-NM	PIC	X(10).	
018800	03		FILLER	PIC	X(30)	VALUE SPACES.
018900	03		FILLER	PIC	X(25)	VALUE
019000			"ECOLOGICAL SITE INVENTORY".			
019100	03		FILLER	PIC	X(35)	VALUE SPACES.
019200	03		FILLER	PIC	X(18)	VALUE
019300			"PROGRAM: ES415P " .			
019400	01		HDR-3.			
019500		03	FILLER	PIC	X(08)	VALUE
019600			" DI: " .			
019700	03		HDR-DIST-CD	PIC	X(02).	
019800	03		FILLER	PIC	X(04)	VALUE SPACES.
019900	03		HDR-DIST-NM	PIC	X(25).	
020000	03		FILER	PIC	X(79)	VALUE SPACES.
020100	03		FILLER	PIC	X(14)	VALUE
020200			"PCN: PCN415 " .			
020300	01		HDR-4.			
020400		03	FILLER	PIC	X(08)	VALUE
020500			" INV: " .			
020600	03		HDR-INV-CD	PIC	X(04).	
020700	03		FILLER	PIC	X(02)	VALUE SPACES.
020800	03		HDR-INV-NM	PIC	X(25).	
020900	03		FILLER	PIC	X(16)	VALUE SPACES.
021000	03		HDR-REC-TYPE	PIC	X(02).	



021100	03	FILLER		PIC	X(18)	VALUE	
021200		" VERIFICATION LIST".					
021300	03	FILLER		PIC	X(57)	VALUE SPACES.	
021400	01	HDR-5-VL.					
021500	03	FILLER		PIC	X(38)	VALUE	
021600		"(1-2) (3) (4) (5)".					
021700	03	FILLER		PIC	X(10)	VALUE SPACES.	
021800	03	FILLER		PIC	X(34)	VALUE	
021900		"(6) (7) (8) (9) (10)".					
022000	03	FILLER		PIC	X(10)	VALUE SPACES.	
022100	03	FILLER		PIC	X(40)	VALUE	
022200		"(6) (7) (8) (9) (10) ".					
022300	01	HDR-6-VL.					
022400	03	FILLER		PIC	X(43)	VALUE	
022500		" REC ADMINISTRATIVE UNIT DATE ACT LINE".					
022600	03	FILLER		PIC	X(16)	VALUE SPACES.	
022700	03	FILLER		PIC	X(27)	VALUE	
022800		"ANML AUTH PERIOD OF USE".					
022900	03	FILLER		PIC	X(16)	VALUE SPACES.	
023000	03	FILLER		PIC	X(30)	VALUE	
023100		"ANML AUTH PERIOD OF USE ".					
023200	01	HDR-7-VL.					
023300	03	FILLER		PIC	X(46)	VALUE	
023400		"TYPE ST DI RA PU YMMDD CD NUM ".					
023500	03	FILLER		PIC	X(51)	VALUE	
023600		"ALLOT PAST SPEC LVSTK FROM MM DD-TO MM DD ALLOT ".					
023700	03	FILLER		PIC	X(35)	VALUE	
023800		"PAST SPEC LVSTK FROM MM DD-TO MM DD".					
023900	01	HDR-8-VL.					
024000	03	FILLER		PIC	X(52)	VALUE	
024100		" 1-4 5-6 7-8 9-10 11-12 13-18 19 20-23 24-27 ".					
024200	03	FILLER		PIC	X(49)	VALUE	
024300		"28-29 30-31 32-36 37-40 41-44 45-48 49-50".					
024400	03	FILLER		PIC	X(31)	VALUE	
024500		" 51-2 53-57 58-61 62-65".					
024600	01	HDR-9-VL.					
024700	03	FILLER		PIC	X(53)	VALUE	
024800		"XXXX XX XX XX XX XXXXXX X 9999 9999 ".					
024900	03	FILLER		PIC	X(54)	VALUE	
025000		" 99 XX 99999 XX XX XX XX 9999 99 XX ".					
025100	03	FILLER		PIC	X(25)	VALUE	
025200		"99999 XX XX XX XX".					
025300	01	HDR-10-DET-VL.					
025400	03	REC-TYPE-3529-VL-P1		PIC	X(02).		
025500	03	FMT-NO-3576-VL-P1		PIC	X(01).		
025600	03	FMT-CD-3579-VL-P1		PIC	X(01).		
025700	03	FILLER		PIC	X(02)	VALUE SPACES.	
025800	03	ADM-ST-0003-VL-P1		PIC	X(02).		
025900	03	FILLER		PIC	X(03)	VALUE SPACES.	
026000	03	ADM-DI-0003-VL-P1		PIC	X(02).		
026100	03	FILLER		PIC	X(03)	VALUE SPACES.	
026200	03	ADM-RA-0003-VL-P1		PIC	X(02).		
026300	03	FILLER		PIC	X(03)	VALUE SPACES.	
026400	03	ADM-PU-0003-VL-P1		PIC	X(02).		
026500	03	FILLER		PIC	X(03)	VALUE SPACES.	
026600	03	DATA-DT-6618-VL-P1		PIC	X(06).		
026700	03	FILLER		PIC	X(03)	VALUE SPACES.	

026800	03	ACT-CD-7350-VL-P1	PIC	X(01).	
026900	03	FILLER	PIC	X(03)	VALUE SPACES.
027000	03	LINE-NO-3578-VL-P1	PIC	X(04).	
027100	03	FILLER	PIC	X(04)	VALUE SPACES.
027200	03	ALLOT-NUM1-0968-VL-P1	PIC	X(04).	
027300	03	FILLER	PIC	X(03)	VALUE SPACES.
027400	03	PASTURE-NUM1-3905-VL-P1	PIC	X(02).	
027500	03	FILLER	PIC	X(04)	VALUE SPACES.
027600	03	ANML-GRZG-CD1-3929-VL-P1	PIC	X(02).	
027700	03	FILLER	PIC	X(02)	VALUE SPACES.
027800	03	ANML-EST-POP1-3926-VL-P1	PIC	X(05).	
027900	03	FILLER	PIC	X(06)	VALUE SPACES.
028000	03	USE-MO-DT-FR1-3845-VL-P1	PIC	X(02).	
028100	03	FILLER	PIC	X(01)	VALUE SPACE.
028200	03	USE-DD-DT-FR1-3845-VL-P1	PIC	X(02).	
028300	03	FILLER	PIC	X(04)	VALUE SPACES.
028400	03	USE-MO-DT-TO1-3845-VL-P1	PIC	X(02).	
028500	03	FILLER	PIC	X(01)	VALUE SPACE.
028600	03	USE-DD-DT-TO1-3845-VL-P1	PIC	X(02).	
028700	03	FILLER	PIC	X(02)	VALUE SPACES.
028800	03	ALLOT-NUM2-0968-VL-P1	PIC	X(04).	
028900	03	FILLER	PIC	X(03)	VALUE SPACES.
029000	03	PASTURE-NUM2-3905-VL-P1	PIC	X(02).	
029100	03	FILLER	PIC	X(03)	VALUE SPACES.
029200	03	ANML-GRZG-CD2-3929-VL-P1	PIC	X(02).	
029300	03	FILLER	PIC	X(02)	VALUE SPACES.
029400	03	ANML-EST-POP2-3926-VL-P1	PIC	X(05).	
029500	03	FILLER	PIC	X(06)	VALUE SPACES.
029600	03	USE-MO-DT-FR2-3845-VL-P1	PIC	X(02).	
029700	03	FILLER	PIC	X(01)	VALUE SPACE.
029800	03	USE-DD-DT-FR2-3845-VL-P1	PIC	X(02).	
029900	03	FILLER	PIC	X(04)	VALUE SPACES.
030000	03	USE-MO-DT-TO2-3845-VL-P1	PIC	X(02).	
030100	03	FILLER	PIC	X(01)	VALUE SPACE.
030200	03	USE-DD-DT-TO2-3845-VL-P1	PIC	X(02).	
030300	01	HDR-5-VW.			
030400	03	FILLER	PIC	X(53)	VALUE
030500		"(1-2) (3) (4) (5) (6)".			
030600	03	FILLER	PIC	X(29)	VALUE
030700		" (7) (8) (9) (10)".			
030800	03	FILLER	PIC	X(10)	VALUE SPACES.
030900	03	FILLER	PIC	X(4)	VALUE
031000		"(11)".			
031100	03	FILLER	PIC	X(21)	VALUE SPACES.
031200	03	FILLER	PIC	X(4)	VALUE "(12)".
031300	03	FILLER	PIC	X(11)	VALUE SPACES.
031400	01	HDR-6-VW.			
031500	03	FILLER	PIC	X(49)	VALUE
031600		" REC ADMINISTRATIVE UNIT DATE ACT LINE "			
031700	03	FILLER	PIC	X(51)	VALUE
031800		"HERD PCT ANML EST NUM PERIOD OF USE".			
031900	03	FILLER	PIC	X(32)	VALUE
032000		" LSTG OF SWAS BY WLDLF SPEC "			
032100	01	HDR-7-VW.			
032200	03	FILLER	PIC	X(42)	VALUE
032300		"TYPE ST DI RA PU YYMMDD CD NO".			
032400	03	FILLER	PIC	X(49)	VALUE

032500		"	UNIT	ALLOT	HERD	SPEC	ANMLS	FROM	MM	".	
032600	03	FILLER			PIC		X(40)	VALUE			
032700		"DD-TO	MM	DD	SWA	SWA	SWA	SWA	SWA	".	
032800	01	HDR-8-VW.									
032900	03	FILLER			PIC		X(54)	VALUE			
033000		"	1-4	5-6	7-8	9-10	11-12	13-18	19	20-23	24-31".
033100	03	FILLER			PIC		X(49)	VALUE			
033200		"	32-35	36-8	39-40	41-45		46-49		50-53".	
033300	03	FILLER			PIC		X(29)	VALUE			
033400		"	54-7	58-61	62-5	66-9		70-3".			
033500	01	HDR-9-VW.									
033600	03	FILLER			PIC		X(47)	VALUE			
033700		"XXXX	XX	XX	XX	XX	XXXXXX	X	XXXX	".	
033800	03	FILLER			PIC		X(42)	VALUE			
033900		"XXXXXXXX	9999	999	XX	99999				".	
034000	03	FILLER			PIC		X(43)	VALUE			
034100		"XX	XX	XX	XX	XXXX	XXXX	XXXX	XXXX	".	
034200	01	HDR-10-DET-VW.									
034300	03	REC-TYPE-3529-VW-P1			PIC		X(02).				
034400	03	FMT-NO-3576-VW-P1			PIC		X(01).				
034500	03	FMT-CD-3579-VW-P1			PIC		X(01).				
034600	03	FILLER			PIC		X(02)	VALUE	SPACES.		
034700	03	ADM-ST-0003-VW-P1			PIC		X(02).				
034800	03	FILLER			PIC		X(03)	VALUE	SPACES.		
034900	03	ADM-DI-0003-VW-P1			PIC		X(02).				
035000	03	FILLER			PIC		X(03)	VALUE	SPACES.		
035100	03	ADM-RA-0003-VW-P1			PIC		X(02).				
035200	03	FILLER			PIC		X(03)	VALUE	SPACES.		
035300	03	ADM-PU-0003-VW-P1			PIC		X(02).				
035400	03	FILLER			PIC		X(04)	VALUE	SPACES.		
035500	03	DATA-DT-6618-VW-P1			PIC		X(06).				
035600	03	FILLER			PIC		X(03)	VALUE	SPACES.		
035700	03	ACT-CD-7350-VW-P1			PIC		X(01).				
035800	03	FILLER			PIC		X(03)	VALUE	SPACES.		
035900	03	LINE-NO-3578-VW-P1			PIC		X(04).				
036000	03	FILLER			PIC		X(03)	VALUE	SPACES.		
036100	03	HERD-UNIT-NUM-6598-VW-P1			PIC		X(08).				
036200	03	FILLER			PIC		X(03)	VALUE	SPACES.		
036300	03	ALLOT-NUM-0968-VW-P1			PIC		X(04).				
036400	03	FILLER			PIC		X(03)	VALUE	SPACES.		
036500	03	HERD-UNIT-ALLOT-PCT-3927-VW-P1			PIC		X(03).				
036600	03	FILLER			PIC		X(04)	VALUE	SPACES.		
036700	03	ANML-GRZG-CD-3929-VW-P1			PIC		X(02).				
036800	03	FILLER			PIC		X(03)	VALUE	SPACES.		
036900	03	ANML-EST-POP-3926-VW-P1			PIC		X(05).				
037000	03	FILLER			PIC		X(07)	VALUE	SPACES.		
037100	03	USE-MO-DT-FR-3845-VW-P1			PIC		X(02).				
037200	03	FILLER			PIC		X(01)	VALUE	SPACES.		
037300	03	USE-DD-DT-FR-3845-VW-P1			PIC		X(02).				
037400	03	FILLER			PIC		X(04)	VALUE	SPACES.		
037500	03	USE-MO-DT-TO-3845-VW-P1			PIC		X(02).				
037600	03	FILLER			PIC		X(01)	VALUE	SPACE.		
037700	03	USE-DD-DT-TO-3845-VW-P1			PIC		X(02).				
037800	03	FILLER			PIC		X(01)	VALUE	SPACE.		
037900	03	SWA1-3507-VW-P1			PIC		X(04).				
038000	03	FILLER			PIC		X(02)	VALUE	SPACES.		
038100	03	SWA2-3507-VW-P1			PIC		X(04).				

```

038200      03  FILLER                PIC          X(02)  VALUE SPACES.
038300      03  SWA3-3507-VW-P1       PIC          X(04).
038400      03  FILLER                PIC          X(02)  VALUE SPACES.
038500      03  SWA4-3507-VW-P1       PIC          X(04).
038600      03  FILLER                PIC          X(02)  VALUE SPACES.
038700      03  SWA5-3507-VW-P1       PIC          X(04).
038800  PROCEDURE DIVISION.
038900  START-SORT SECTION.
039000  100-SORT.
039100          SORT SORT-FILE ON ASCENDING S-KEY-DATA-VL-S1
039200          INPUT PROCEDURE PRE-SORT
039300          OUTPUT PROCEDURE POST-SORT.
039400  200-END-SECTION.
039500          FINISH DIC-DE.
039600          CLOSE PRINT-FILE.
039700          DISPLAY "VL-CNT "  VL-CNT.
039800          DISPLAY "VW-CNT "  VW-CNT.
039900          STOP RUN.
040000  PRE-SORT SECTION.
040100  300-HSKPNG.
040200          OPEN INPUT INPUT-FILE1.
040300          MOVE SPACES TO S-KEY1  S-KEY2.
040400  400-MAIN.
040500          PERFORM 500-RD-FILE1 THRU 600-EXIT-RD-FL1 UNTIL EOF.
040600          CLOSE INPUT-FILE1.
040700          GO TO 850-EXIT-VW.
040800  500-RD-FILE1.
040900          READ INPUT-FILE1 AT END MOVE 1 TO EOF-SWITCH.
041000          IF (EOF-SWITCH = 1) GO TO 600-EXIT-RD-FL1.
041100          IF REC-TYPE-3529-VL-I1 = "VL"
041200              PERFORM 700-MV-VL-TO-SRT THRU 750-EXIT-VL
041300              GO TO 600-EXIT-RD-FL1.
041400          IF REC-TYPE-3529-VW-I1 = "VW"
041500              PERFORM 800-MV-VW-TO-SRT THRU 850-EXIT-VW
041600              GO TO 600-EXIT-RD-FL1.
041700  600-EXIT-RD-FL1.
041800          EXIT.
041900  700-MV-VL-TO-SRT.
042000          ADD 1 TO VL-CNT.
042100          MOVE REC-TYPE-3529-VL-I1 TO REC-TYPE-3529-VL-S1.
042200          MOVE FMT-NO-3576-VL-I1 TO FMT-NO-3576-VL-S1.
042300          MOVE FMT-CD-3579-VL-I1 TO FMT-CD-3579-VL-S1.
042400          MOVE ADM-UNIT-0003-VL-I1 TO ADM-UNIT-0003-VL-S1.
042500          MOVE DATA-DT-6618-VL-I1 TO DATA-DT-6618-VL-S1.
042600          MOVE ACT-CD-7350-VL-I1 TO ACT-CD-7350-VL-S1.
042700          MOVE LINE-NO-3578-VL-I1 TO LINE-NO-3578-VL-S1.
042800          MOVE ALLOT-NUM-0968-VL-I1 (1) TO ALLOT-NUM1-0968-VL-S1.
042900          MOVE ALLOT-NUM-0968-VL-I1 (2) TO ALLOT-NUM2-0968-VL-S1.
043000          MOVE PASTURE-NUM-3905-VL-I1 (1) TO PASTURE-NUM1-3905-VL-S1.
043100          MOVE PASTURE-NUM-3905-VL-I1 (2) TO PASTURE-NUM2-3905-VL-S1.
043200          MOVE ANML-GRZG-CD-3929-VL-I1 (1) TO ANML-GRZG-CD1-3929-VL-S1.
043300          MOVE ANML-GRZG-CD-3929-VL-I1 (2) TO ANML-GRZG-CD2-3929-VL-S1.
043400          MOVE ANML-EST-POP-3926-VL-I1 (1) TO ANML-EST-POP1-3926-VL-S1.
043500          MOVE ANML-EST-POP-3926-VL-I1 (2) TO
043600          ANML-EST-POP2-3926-VL-S1.
043700          MOVE USE-MO-DT-FR-3845-VL-I1 (1) TO
043800          USE-MO-DT-FR-3845-VL-S1 (1).

```

043900 MOVE USE-MO-DT-FR-3845-VL-I1 (2) TO  
044000 USE-MO-DT-FR-3845-VL-S1 (2).  
044100 MOVE USE-DD-DT-FR-3845-VL-I1 (1) TO  
044200 USE-DD-DT-FR-3845-VL-S1 (1).  
044300 MOVE USE-DD-DT-FR-3845-VL-I1 (2) TO  
044400 USE-DD-DT-FR-3845-VL-S1 (2).  
044500 MOVE USE-MO-DT-TO-3845-VL-I1 (1) TO  
044600 USE-MO-DT-TO-3845-VL-S1 (1).  
044700 MOVE USE-MO-DT-TO-3845-VL-I1 (2) TO  
044800 USE-MO-DT-TO-3845-VL-S1 (2).  
044900 MOVE USE-DD-DT-TO-3845-VL-I1 (1) TO  
045000 USE-DD-DT-TO-3845-VL-S1 (1).  
045100 MOVE USE-DD-DT-TO-3845-VL-I1 (2) TO  
045200 USE-DD-DT-TO-3845-VL-S1 (2).  
045300 RELEASE S-KEY1.  
045400 750-EXIT-VL.  
045500 EXIT.  
045600 800-MV-VW-TO-SRT.  
045700 ADD 1 TO VW-CNT.  
045800 MOVE REC-TYPE-3529-VW-I1 TO REC-TYPE-3529-VW-S1.  
045900 MOVE FMT-NO-3576-VW-I1 TO FMT-NO-3576-VW-S1.  
046000 MOVE FMT-CD-3579-VW-I1 TO FMT-CD-3579-VW-S1.  
046100 MOVE ADM-UNIT-0003-VW-I1 TO ADM-UNIT-0003-VW-S1.  
046200 MOVE DATA-DT-6618-VW-I1 TO DATA-DT-6618-VW-S1.  
046300 MOVE ACT-CD-7350-VW-I1 TO ACT-CD-7350-VW-S1.  
046400 MOVE LINE-NO-3578-VW-I1 TO LINE-NO-3578-VW-S1.  
046500 MOVE HERD-UNIT-NUM-6598-VW-I1 TO HERD-UNIT-NUM-6598-VW-S1.  
046600 MOVE ALLOT-NUM-0968-VW-I1 TO ALLOT-NUM-0968-VW-S1.  
046700 MOVE HERD-UNIT-ALLOT-PCT-3927-VW-I1 TO  
046800 HERD-UNIT-ALLOT-PCT-3927-VW-S1.  
046900 MOVE ANML-GRZG-CD-3929-VW-I1 TO ANML-GRZG-CD-3929-VW-S1.  
047000 MOVE ANML-EST-POP-3926-VW-I1 TO ANML-EST-POP-3926-VW-S1.  
047100 MOVE USE-DATES-3845-VW-I1 TO USE-DATES-3845-VW-S1.  
047200 MOVE SWA-3507-VW-I1(1) TO SWA-3507-VW-S1(1).  
047300 MOVE SWA-3507-VW-I1(2) TO SWA-3507-VW-S1(2).  
047400 MOVE SWA-3507-VW-I1(3) TO SWA-3507-VW-S1(3).  
047500 MOVE SWA-3507-VW-I1(4) TO SWA-3507-VW-S1(4).  
047600 MOVE SWA-3507-VW-I1(5) TO SWA-3507-VW-S1(5).  
047700 RELEASE S-KEY2.  
047800 850-EXIT-VW.  
047900 EXIT.  
048000 POST-SORT SECTION.  
048100 3050-RET-HSKPNG.  
048200 OPEN OUTPUT PRINT-FILE.  
048300 ACCEPT PARAMETER.  
048400 ACCEPT HOLD-DT FROM DATE.  
048500 MOVE YR-DT TO HDR-YR.  
048600 MOVE MON(MO-DT) TO HDR-MO.  
048700 MOVE DY-DT TO HDR-DA.  
048800 READY DIC-DE.  
048900 PERFORM 4000-VALIDATE-INV THRU 4050-EXIT-STDI.  
049000 RETURN SORT-FILE AT END MOVE 1 TO EOR-SWITCH.  
049100 MOVE REC-TYPE-3529-VL-S1 TO HLD-REC-TYPE.  
049200 PERFORM 4100-CHK-LINE-CNT THRU 4150-EXIT-LINE-OVR50.  
049300 3070-MAIN-DRIVER.  
049400 PERFORM 4300-DET-REC-LINE THRU 4350-EXIT-DET UNTIL EOR.  
049500 IF (EOR-SWITCH = 1) GO TO 5000-DUMMY.

```
049600 4000-VALIDATE-INV.
049700     MOVE PARAMETER TO DE-CD-8822-DEC  HDR-INV-CD.
049800     MOVE 3940 TO DE-NO-8801-DEC.
049900     FIND ANY CODE-DEC.
050000     MOVE DB-STATUS TO DB-STAT.
050100     IF NOT OK
050200         MOVE "UNKNOWN" TO HDR-ST-NM HDR-DIST-NM HDR-INV-NM
050300         GO TO 4050-EXIT-STD I.
050400     GET CODE-DEC.
050500     MOVE DB-STATUS TO DB-STAT.
050600     IF NOT OK
050700         DISPLAY "ES415PBD  DIDN'T GET INVN"
050800         DISPLAY DB-STAT
050900         GO TO 4050-EXIT-STD I.
051000     MOVE DE-CD-NAM-8823-DEC TO INV-HLD.
051100     MOVE INV-NM TO HDR-INV-NM.
051200 4005-VALIDATE-ST.
051300     MOVE ST-CD-HLD TO DE-CD-8822-DEC  HDR-ST-CD.
051400     MOVE 0003 TO DE-NO-8801-DEC.
051500     FIND ANY CODE-DEC.
051600     MOVE DB-STATUS TO DB-STAT.
051700     IF NOT OK
051800         MOVE "UNKNOWN" TO HDR-ST-NM
051900         GO TO 4008-EXIT-ST.
052000     GET CODE-DEC.
052100     MOVE DB-STATUS TO DB-STAT.
052200     IF NOT OK
052300         DISPLAY "ES415PBD  3  DIDN'T GET ST"
052400         DISPLAY "ES415PBD  4  " DB-STAT
052500         GO TO 4008-EXIT-ST.
052600     MOVE DE-CD-NAM-8823-DEC TO FUNC-HLD.
052700     MOVE ST-NM-HLD TO HDR-ST-NM.
052800 4008-EXIT-ST.
052900     EXIT.
053000 4010-VALIDATE-STD I.
053100     MOVE ST-DIST-CD TO DE-CD-8822-DEC.
053200     MOVE DI-CD-HLD TO HDR-DIST-CD.
053300     MOVE 0003 TO DE-NO-8801-DEC.
053400     FIND ANY CODE-DEC.
053500     MOVE DB-STATUS TO DB-STAT.
053600     IF NOT OK
053700         MOVE "UNKNOWN" TO HDR-DIST-NM
053800         GO TO 4050-EXIT-STD I.
053900     GET CODE-DEC.
054000     MOVE DB-STATUS TO DB-STAT.
054100     IF NOT OK
054200         DISPLAY "ES415PBD  5  DIDN'T GET STD I"
054300         DISPLAY "ES415PBD  6  " DB-STAT
054400         GO TO 4050-EXIT-STD I.
054500     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
054600     MOVE DB-STATUS TO DB-STAT.
054700     IF NOT OK
054800         MOVE "UNKNOWN" TO HDR-DIST-NM
054900         GO TO 4050-EXIT-STD I.
055000     GET CODE-EXPL-DECE.
055100     MOVE DB-STATUS TO DB-STAT.
055200     IF NOT OK
```

```

055300         DISPLAY "ES415PBD 7 DIDN'T GET DIST"
055400         DISPLAY "ES415PBD 8 " DB-STAT
055500         GO TO 4050-EXIT-STDI.
055600         MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HLD
055700         MOVE DIST-NM-HLD TO HDR-DIST-NM.
055800 4050-EXIT-STDI.
055900         EXIT.
056000 4100-CHK-LINE-CNT.
056100         IF LINE-CNT > 50
056200             PERFORM 4200-PRT-HDNG THRU 4250-HDNG-EXIT
056300             GO TO 4150-EXIT-LINE-OVR50.
056400 4150-EXIT-LINE-OVR50.
056500         EXIT.
056600 4200-PRT-HDNG.
056700         ADD 1 TO PAGE-CNT.
056800         MOVE PAGE-CNT TO HDR-PG.
056900         WRITE PRT-REC FROM HDR-1 AFTER ADVANCING PAGE.
057000         WRITE PRT-REC FROM HDR-2 AFTER ADVANCING 1 LINES.
057100         WRITE PRT-REC FROM HDR-3 AFTER ADVANCING 1 LINES.
057200         MOVE 2 TO LINE-CNT.
057300 4220-CHK-WHAT-REC.
057400         IF HLD-REC-TYPE = "VL"
057500             MOVE "VL" TO HDR-REC-TYPE
057600             WRITE PRT-REC FROM HDR-4 AFTER ADVANCING 1 LINES
057700             WRITE PRT-REC FROM HDR-5-VL AFTER ADVANCING 2 LINES
057800             WRITE PRT-REC FROM HDR-6-VL AFTER ADVANCING 1 LINES
057900             WRITE PRT-REC FROM HDR-7-VL AFTER ADVANCING 1 LINES
058000             WRITE PRT-REC FROM HDR-8-VL AFTER ADVANCING 1 LINES
058100             WRITE PRT-REC FROM HDR-9-VL AFTER ADVANCING 1 LINES
058200             GO TO 4230-PRT-SPACES.
058300         IF HLD-REC-TYPE = "VW"
058400             MOVE "VW" TO HDR-REC-TYPE
058500             WRITE PRT-REC FROM HDR-4 AFTER ADVANCING 1 LINES
058600             WRITE PRT-REC FROM HDR-5-VW AFTER ADVANCING 2 LINES
058700             WRITE PRT-REC FROM HDR-6-VW AFTER ADVANCING 1 LINES
058800             WRITE PRT-REC FROM HDR-7-VW AFTER ADVANCING 1 LINES
058900             WRITE PRT-REC FROM HDR-8-VW AFTER ADVANCING 1 LINES
059000             WRITE PRT-REC FROM HDR-9-VW AFTER ADVANCING 1 LINES
059100             GO TO 4230-PRT-SPACES.
059200 4230-PRT-SPACES.
059300         MOVE SPACES TO PRT-REC.
059400         WRITE PRT-REC AFTER ADVANCING 1 LINES.
059500         ADD 7 TO LINE-CNT.
059600 4250-HDNG-EXIT.
059700         EXIT.
059800 4300-DET-REC-LINE.
059900         IF REC-TYPE-3529-VL-S1 = HLD-REC-TYPE
060000             PERFORM 4400-PRNT-DET-LINE THRU 4450-EXIT-CHK-REC-TYP
060100             GO TO 4320-RET-SORT.
060200         IF REC-TYPE-3529-VL-S1 = "99" GO TO 4350-EXIT-DET.
060300         MOVE 66 TO LINE-CNT.
060400         MOVE 0 TO PAGE-CNT.
060500         MOVE REC-TYPE-3529-VL-S1 TO HLD-REC-TYPE.
060600         PERFORM 4400-PRNT-DET-LINE THRU 4450-EXIT-CHK-REC-TYP.
060700 4320-RET-SORT.
060800         RETURN SORT-FILE AT END MOVE 1 TO EOR-SWITCH
060900         MOVE "99" TO REC-TYPE-3529-VL-S1.

```

```

061000     IF EOR-SWITCH = 1 GO TO 4350-EXIT-DET.
061100 4350-EXIT-DET.
061200     EXIT.
061300 4400-PRNT-DET-LINE.
061400     PERFORM 4100-CHK-LINE-CNT THRU 4150-EXIT-LINE-OVR50.
061500     IF REC-TYPE-3529-VL-S1 = "VL"
061600     PERFORM 4500-PRNT-VL THRU 4800-EXIT-PRT-DET
061700     GO TO 4450-EXIT-CHK-REC-TYP.
061800     IF REC-TYPE-3529-VW-S1 = "VW"
061900         PERFORM 4550-PRNT-VW THRU 4800-EXIT-PRT-DET
062000         GO TO 4450-EXIT-CHK-REC-TYP.
062100 4450-EXIT-CHK-REC-TYP.
062200     EXIT.
062300 4500-PRNT-VL.
062400     MOVE REC-TYPE-3529-VL-S1 TO REC-TYPE-3529-VL-P1.
062500     MOVE FMT-NO-3576-VL-S1 TO FMT-NO-3576-VL-P1.
062600     MOVE FMT-CD-3579-VL-S1 TO FMT-CD-3579-VL-P1.
062700     MOVE ADM-ST-0003-VL-S1 TO ADM-ST-0003-VL-P1.
062800     MOVE ADM-DI-0003-VL-S1 TO ADM-DI-0003-VL-P1.
062900     MOVE ADM-RA-0003-VL-S1 TO ADM-RA-0003-VL-P1.
063000     MOVE ADM-PU-0003-VL-S1 TO ADM-PU-0003-VL-P1.
063100     MOVE DATA-DT-6618-VL-S1 TO DATA-DT-6618-VL-P1.
063200     MOVE ACT-CD-7350-VL-S1 TO ACT-CD-7350-VL-P1.
063300     MOVE LINE-NO-3578-VL-S1 TO LINE-NO-3578-VL-P1.
063400     MOVE ALLOT-NUM1-0968-VL-S1 TO ALLOT-NUM1-0968-VL-P1.
063500     MOVE ALLOT-NUM2-0968-VL-S1 TO ALLOT-NUM2-0968-VL-P1.
063600     MOVE PASTURE-NUM1-3905-VL-S1 TO PASTURE-NUM1-3905-VL-P1.
063700     MOVE PASTURE-NUM2-3905-VL-S1 TO PASTURE-NUM2-3905-VL-P1.
063800     MOVE ANML-GRZG-CD1-3929-VL-S1 TO ANML-GRZG-CD1-3929-VL-P1.
063900     MOVE ANML-GRZG-CD2-3929-VL-S1 TO ANML-GRZG-CD2-3929-VL-P1.
064000     MOVE ANML-EST-POP1-3926-VL-S1 TO ANML-EST-POP1-3926-VL-P1.
064100     MOVE ANML-EST-POP2-3926-VL-S1 TO ANML-EST-POP2-3926-VL-P1.
064200     MOVE USE-MO-DT-FR-3845-VL-S1 (1) TO USE-MO-DT-FR1-3845-VL-P1.
064300     MOVE USE-MO-DT-FR-3845-VL-S1 (2) TO USE-MO-DT-FR2-3845-VL-P1.
064400     MOVE USE-DD-DT-FR-3845-VL-S1 (1) TO USE-DD-DT-FR1-3845-VL-P1.
064500     MOVE USE-DD-DT-FR-3845-VL-S1 (2) TO USE-DD-DT-FR2-3845-VL-P1.
064600     MOVE USE-MO-DT-TO-3845-VL-S1 (1) TO USE-MO-DT-TO1-3845-VL-P1.
064700     MOVE USE-MO-DT-TO-3845-VL-S1 (2) TO USE-MO-DT-TO2-3845-VL-P1.
064800     MOVE USE-DD-DT-TO-3845-VL-S1 (1) TO USE-DD-DT-TO1-3845-VL-P1.
064900     MOVE USE-DD-DT-TO-3845-VL-S1 (2) TO USE-DD-DT-TO2-3845-VL-P1.
065000     WRITE PRT-REC FROM HDR-10-DET-VL AFTER ADVANCING 2 LINES.
065100     ADD 2 TO LINE-CNT.
065200     GO TO 4800-EXIT-PRT-DET.
065300 4550-PRNT-VW.
065400     MOVE REC-TYPE-3529-VW-S1 TO REC-TYPE-3529-VW-P1.
065500     MOVE FMT-NO-3576-VW-S1 TO FMT-NO-3576-VW-P1.
065600     MOVE FMT-CD-3579-VW-S1 TO FMT-CD-3579-VW-P1.
065700     MOVE ADM-ST-0003-VW-S1 TO ADM-ST-0003-VW-P1.
065800     MOVE ADM-DI-0003-VW-S1 TO ADM-DI-0003-VW-P1.
065900     MOVE ADM-RA-0003-VW-S1 TO ADM-RA-0003-VW-P1.
066000     MOVE ADM-PU-0003-VW-S1 TO ADM-PU-0003-VW-P1.
066100     MOVE DATA-DT-6618-VW-S1 TO DATA-DT-6618-VW-P1.
066200     MOVE ACT-CD-7350-VW-S1 TO ACT-CD-7350-VW-P1.
066300     MOVE LINE-NO-3578-VW-S1 TO LINE-NO-3578-VW-P1.
066400     MOVE HERD-UNIT-NUM-6598-VW-S1 TO HERD-UNIT-NUM-6598-VW-P1.
066500     MOVE ALLOT-NUM-0968-VW-S1 TO ALLOT-NUM-0968-VW-P1.
066600     MOVE HERD-UNIT-ALLOT-PCT-3927-VW-S1 TO

```



```

066700             HERD-UNIT-ALLOT-PCT-3927-VW-P1.
066800     MOVE ANML-GRZG-CD-3929-VW-S1 TO ANML-GRZG-CD-3929-VW-P1.
066900     MOVE ANML-EST-POP-3926-VW-S1 TO ANML-EST-POP-3926-VW-P1.
067000     MOVE USE-MO-DT-FR-3845-VW-S1 TO USE-MO-DT-FR-3845-VW-P1.
067100     MOVE USE-DD-DT-FR-3845-VW-S1 TO USE-DD-DT-FR-3845-VW-P1.
067200     MOVE USE-MO-DT-TO-3845-VW-S1 TO USE-MO-DT-TO-3845-VW-P1.
067300     MOVE USE-DD-DT-TO-3845-VW-S1 TO USE-DD-DT-TO-3845-VW-P1.
067400     MOVE SWA-3507-VW-S1 (1) TO SWA1-3507-VW-P1.
067500     MOVE SWA-3507-VW-S1 (2) TO SWA2-3507-VW-P1.
067600     MOVE SWA-3507-VW-S1 (3) TO SWA3-3507-VW-P1.
067700     MOVE SWA-3507-VW-S1 (4) TO SWA4-3507-VW-P1.
067800     MOVE SWA-3507-VW-S1 (5) TO SWA5-3507-VW-P1.
067900     WRITE PRT-REC FROM HDR-10-DET-VW AFTER ADVANCING 2 LINES.
068000     ADD 2 TO LINE-CNT.
068100 4800-EXIT-PRT-DET.
068200     EXIT.
068300 DUMMY-SECTION.
068400 5000-DUMMY.
068500     EXIT.
068600 END-OF-JOB.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES420E.
000300*     EDIT/UPDATE OF LIVESTOCK (VL) AND
000400*     WILDLIFE (VW) USE DATA.
000500 AUTHOR. FRANK WILEY.
000600 DATE-WRITTEN. 20 AUG 79.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400     SELECT VL-VW-OUT ASSIGN TO D1
001500     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600     SELECT VL-VW-IN ASSIGN TO I1
001700     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800     SELECT PRINT-FILE ASSIGN TO P1
001900     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000 DATA DIVISION.
002100 SUB-SCHEMA SECTION.
002200 DB CODVAL2 WITHIN BLMDIC.
002300 FILE SECTION.
002400 FD VL-VW-IN
002500     CODE-SET IS GBCD
002600     LABEL RECORDS ARE STANDARD.
002700 01 VW-RCD.
002800     03 RECORD-FORMAT.
002900         05 REC-TYP-W PIC XX.
003000         05 FMT-NUM-W PIC X.
003100         05 FMT-CD-W PIC X.
003200     03 BLM-ADM-IN.
003300         05 BLM-ADM-4.
003400         07 BLM-ADM-3.
003500         09 BLM-ADM-2.
003600         11 BLM-ADM-ST-W PIC XX.

```

003700		11	BLM-ADM-DIST-W	PIC XX.
003800		09	BLM-ADM-RA-W	PIC XX.
003900		07	BLM-ADM-PLU-W	PIC XX.
004000	03		DATA-DATE-W	PIC X(6).
004100	03		ACTN-CD-W	PIC X.
004200	03		LIN-NUM-W	PIC X(4).
004300	03		HERD-UNIT-NUM-W	PIC X(8).
004400	03		ALLOT-NUM-W	PIC X(4).
004500	03		HERD-UNIT-ALLOT-PCT	PIC X(3).
004600	03		ANML-GRZG-CD-W	PIC XX.
004700	03		ANML-EST-POP-W	PIC X(5).
004800	03		USE-DATES.	
004900	05		USE-DATES1ST.	
005000		07	USE-DATES1ST-MON	PIC 9(2).
005100		88	MON-1-W VALUES 1 THRU 12.	
005200		07	USE-DATES1ST-DAY	PIC 9(2).
005300		88	DAY-1-W VALUES 1 THRU 31.	
005400	05		USE-DATESEND.	
005500		07	USE-DATESEND-MON	PIC 9(2).
005600		88	MON-2-W VALUES 1 THRU 12.	
005700		07	USE-DATESEND-DAY	PIC 9(2).
005800		88	DAY-2-W VALUES 1 THRU 31.	
005900	03		SWA-GRP.	
006000		05	SWA-SET OCCURS 5.	
006100		07	SWACD-W	PIC X.
006200		07	SWA-THREE	PIC X(3).
006300	03		FILLER	PIC X(5).
006400	01		VL-RCD.	
006500		03	FILLER	PIC X(23).
006600		03	HERD-GRP OCCURS 2.	
006700		05	ALOT-VL PIC XXXX.	
006800		05	FILLER PIC X(17).	
006900		03	FILLER	PIC X(12).
007000	FD		PRINT-FILE	
007100			CODE-SET IS GBCD	
007200			LABEL RECORDS ARE STANDARD	
007300			DATA RECORD IS PRINT-RCD.	
007400	01		PRINT-RCD	PIC X(132).
007500	FD		VL-VW-OUT	
007600			CODE-SET IS GBCD	
007700			LABEL RECORD IS STANDARD	
007800			DATA RECORD VI-OUT-RCD.	
007900	01		VL-VW-RCD	PIC X(78).
008000			WORKING-STORAGE SECTION.	
008100	77		ERROR-SW COMP-4	PIC 9 VALUE ZERO.
008200	77		PAGE-NO COMP-4	PIC 9(6) VALUE 0.
008300	77		HDR-SW1 COMP-4	PIC 9 VALUE ZERO.
008400	77		HDR-SW2 COMP-4	PIC 9 VALUE ZERO.
008500	77		LINE-CNT COMP-4	PIC 99 VALUE ZERO.
008600	77		HDR-SW3 COMP-4	PIC 9 VALUE ZERO.
008700	77		PAGE-SW COMP-4	PIC 9 VALUE 1.
008800	77		PROCESS-SW COMP-4	PIC 9 VALUE ZERO.
008900	01		BLM-ADM-HOLD.	
009000		05	ST-HOLD	PIC XX.
009100		05	DT-HOLD	PIC XX.
009200		05	RA-HOLD	PIC XX.
009300		05	PLU-HOLD	PIC XX.

009400	01	DATE-HOLD.		
009500		03 YEAR-H		PIC 99.
009600		03 MON-H		PIC 99.
009700		03 DAY-H		PIC 99.
009800	01	MONTH-TABLE		PIC X(36) VALUE
009900		"JANFEBMARAPRMAYJUNJULAUGSEPOCTNOVDEC".		
010000	01	MONTH-LINE REDEFINES MONTH-TABLE.		
010100		03 ALPHA-MONTH		PIC X(3) OCCURS 12.
010200	01	HOLD-AREA.		
010300		03 FUNC-HOLD.		
010400		04 STATE-NAME		PIC X(10).
010500		04 FILLER		PIC X(14).
010600		03 EXPL-HOLD.		
010700		04 DIST-NAME		PIC X(10).
010800		04 FILLER		PIC X.
010900		04 RA-NAME		PIC X(12).
011000		04 FILLER		PIC X.
011100		04 PLU-NAME		PIC X(15).
011200		04 FILLER		PIC X.
011300		03 DIST-H		PIC XX.
011400		COPY DBSTATUS OF TPCOBOLIB.		
011500	01	HDR-1.		
011600		03 FILLER		PIC X(8) VALUE
011700		" PCN "		
011800		03 FILLER		PIC X(10) VALUE "ES420E "
011900		03 FILLER		PIC X(6) VALUE "AS OF "
012000		03 DATE-AS-OF.		
012100		04 DD		PIC 99.
012200		04 FILLER		PIC X VALUE SPACE.
012300		04 MMM		PIC XXX.
012400		04 FILLER		PIC X VALUE SPACE.
012500		04 YY		PIC 99.
012600		03 FILLER		PIC X(09) VALUE SPACE.
012700		03 FILLER		PIC X(48) VALUE
012800		"USDI- BUR OF LAND MGT ECOLOGICAL SITE INVENTORY".		
012900		03 FILLER		PIC X(28) VALUE SPACE.
013000		03 FILLER		PIC X(7) VALUE "PAGE "
013100		03 PAGE-CNT		PIC Z,ZZ9.
013200		03 FILLER		PIC X(02) VALUE SPACE.
013300	01	HDR-2.		
013400		03 FILLER		PIC X(17) VALUE SPACE.
013500		03 FILLER		PIC X(8) VALUE "STATE "
013600		03 ST-HDR		PIC X(15).
013700		03 FILLER		PIC X(16) VALUE SPACE.
013800		03 FILLER		PIC X(7) VALUE "DIST "
013900		03 DIST-HDR		PIC X(15).
014000		03 FILLER		PIC X(15) VALUE SPACE.
014100		03 VL-VW-TYPE		PIC XX VALUE "VL".
014200		03 FILLER		PIC X(20) VALUE
014300		" EDIT ERROR LISTING".		
014400		03 FILLER		PIC X(17) VALUE SPACE.
014500	01	HDR-3.		
014600		03 FILLER		PIC X(40) VALUE
014700		" REC TYP	ST	".
014800		03 FILLER		PIC X(40) VALUE
014900		" DIST	RA	".
015000		03 FILLER		PIC X(40) VALUE

015100		"PLU		DATE		ACTN	"	.
015200	03	FILLER				PIC X(12)	VALUE	SPACE.
015300	01	HDR-4.						
015400	03	FILLER				PIC X(17)	VALUE	SPACE.
015500	03	FILLER				PIC X(43)	VALUE	
015600		"1-4		5-6		7-8		"
015700	03	FILLER				PIC X(41)	VALUE	
015800		" 9-10		11-12		13-18"		.
015900	03	FILLER				PIC X(31)	VALUE	
016000		"		19				"
016100	01	HDR-5.						
016200	03	FILLER				PIC X(17)	VALUE	SPACE.
016300	03	FILLER				PIC X(43)	VALUE	
016400		"XXXX		XX		XX		"
016500	03	FILLER				PIC X(43)	VALUE	
016600		" XX		XX		XXXXXX		"
016700	03	FILLER				PIC X(29)	VALUE	
016800		"		X				"
016900	01	HDR-6L.						
017000	03	FILLER				PIC X(40)	VALUE	
017100		" LIN NUM	ALLOT	PASTURE	ANML	SP		"
017200	03	FILLER				PIC X(40)	VALUE	
017300		"AUTH/LSTK	FROM DATE	TO DATE	ALLOT	P"		.
017400	03	FILLER				PIC X(40)	VALUE	
017500		"ASTURE	ANML SP	AUTH/LSTK	FROM DATE	"		.
017600	03	FILLER				PIC X(12)	VALUE	
017700		" TO DATE		"				"
017800	01	HDR-7L.						
017900	03	FILLER				PIC X(40)	VALUE	
018000		" 20-23	24-27	28-29	30-31			"
018100	03	FILLER				PIC X(40)	VALUE	
018200		" 32-36	37-40	41-44	45-48			"
018300	03	FILLER				PIC X(40)	VALUE	
018400		"49-50	51-52	53-57	58-61			"
018500	03	FILLER				PIC X(12)	VALUE	
018600		" 62-65						"
018700	01	HDR-8L.						
018800	03	FILLER				PIC X(40)	VALUE	
018900		" XXXX	XXXX	XX	XX			"
019000	03	FILLER				PIC X(40)	VALUE	
019100		" XXXXX	XX/XX	XX/XX	XXXX			"
019200	03	FILLER				PIC X(40)	VALUE	
019300		" XX	XX	XXXXX	XX/XX			"
019400	03	FILLER				PIC X(12)	VALUE	
019500		" XX/XX						"
019600	01	HDR-9W.						
019700	03	FILLER				PIC X(40)	VALUE	
019800		" LIN NUM	HRD NO	ALLOT	% HRD			"
019900	03	FILLER				PIC X(45)	VALUE	
020000		" ANML SP	EST NUM	ANML	FROM DATE	TO DATE"		.
020100	03	FILLER				PIC X(39)	VALUE	
020200		" SWA	SWA	SWA	SWA	SWA		"
020300	03	FILLER				PIC X(8)	VALUE	SPACE.
020400	01	HDR-10W.						
020500	03	FILLER				PIC X(40)	VALUE	
020600		" 20-23	24-31	32-35	36-38			"
020700	03	FILLER				PIC X(45)	VALUE	

020800		" 39-40	41-45	46-49	50-53 "	.
020900	03	FILLER			PIC X(39) VALUE	
021000		" 54-57	58-61	62-65	66-69	70-73 "
021100	03	FILLER			PIC X(8) VALUE SPACE.	
021200	01	HDR-11W.				
021300	03	FILLER			PIC X(40) VALUE	
021400		" XXXX	XXXXXXXX	XXXX	XXX	" .
021500	03	FILLER			PIC X(45) VALUE	
021600		" XX	XXXXX	XX/XX	XX/XX	" .
021700	03	FILLER			PIC X(39) VALUE	
021800		" XXXX	XXXX	XXXX	XXXX	XXXX "
021900	03	FILLER			PIC X(8) VALUE SPACE.	
022000	01	PRINT-1LW.				
022100	03	FILLER			PIC X(17) VALUE SPACE.	
022200	03	REC-TYP-P			PIC X(4).	
022300	03	FILLER			PIC X(13) VALUE SPACE.	
022400	03	BLM-ADM-ST			PIC XX.	
022500	03	FILLER			PIC X(14) VALUE SPACE.	
022600	03	BLM-ADM-DIST			PIC XX.	
022700	03	FILLER			PIC X(12) VALUE SPACE.	
022800	03	BLM-ADM-RA			PIC XX.	
022900	03	FILLER			PIC X(15) VALUE SPACE.	
023000	03	BLM-ADM-PLU			PIC XX.	
023100	03	FILLER			PIC X(13) VALUE SPACE.	
023200	03	DATA-DATE-P			PIC X(6).	
023300	03	FILLER			PIC X(13) VALUE SPACE.	
023400	03	ACTN-CD-P			PIC X.	
023500	03	FILLER			PIC X(16) VALUE SPACE.	
023600	01	PRINT-2LW.				
023700	03	FILLER			PIC X(17) VALUE SPACE.	
023800	03	ASTER-1			PIC X(4).	
023900	03	FILLER			PIC X(13) VALUE SPACE.	
024000	03	ASTER-2			PIC XX.	
024100	03	FILLER			PIC X(14) VALUE SPACE.	
024200	03	ASTER-3			PIC XX.	
024300	03	FILLER			PIC X(12) VALUE SPACE.	
024400	03	ASTER-4			PIC XX.	
024500	03	FILLER			PIC X(15) VALUE SPACE.	
024600	03	ASTER-5			PIC XX.	
024700	03	FILLER			PIC X(49) VALUE SPACE.	
024800	01	PRINT-3L.				
024900	03	FILLER			PIC X(5) VALUE SPACE.	
025000	03	LIN-NUM-P1			PIC X(4).	
025100	03	FILLER			PIC X(4) VALUE SPACE.	
025200	03	ALLOT-NUM-P1			PIC X(4).	
025300	03	FILLER			PIC X(6) VALUE SPACE.	
025400	03	PASTURE-NUM-P1			PIC XX.	
025500	03	FILLER			PIC X(8) VALUE SPACE.	
025600	03	ANML-GRZG-CD-P1			PIC XX.	
025700	03	FILLER			PIC X(7) VALUE SPACE.	
025800	03	ANML-EST-POP-P1			PIC X(5).	
025900	03	FILLER			PIC X(6) VALUE SPACE.	
026000	03	USE-DATE-FROM.				
026100		05 F-MM-1			PIC XX.	
026200		05 FILLER			PIC X VALUE SPACE.	
026300		05 F-DD-1			PIC XX.	
026400	03	FILLER			PIC X(5) VALUE SPACE.	

026500	03	USE-DATE-TO.	
026600		05 T-MM-1	PIC XX.
026700		05 FILLER	PIC X VALUE SPACE.
026800		05 T-DD-1	PIC XX.
026900	03	FILLER	PIC X(4) VALUE SPACE.
027000	03	ALLOT-NUM-P2	PIC X(4).
027100	03	FILLER	PIC X(6) VALUE SPACE.
027200	03	PASTURE-NUM-P2	PIC XX.
027300	03	FILLER	PIC X(8) VALUE SPACE.
027400	03	ANML-GRZG-CD-P2	PIC XX.
027500	03	FILLER	PIC X(7) VALUE SPACE.
027600	03	ANML-EST-POP-P2	PIC X(5).
027700	03	FILLER	PIC X(6) VALUE SPACE.
027800	03	USE-DATE-FROM-1.	
027900		05 F-MM-2	PIC XX.
028000		05 FILLER	PIC X VALUE SPACE.
028100		05 F-DD-2	PIC XX.
028200	03	FILLER	PIC X(5) VALUE SPACE.
028300	03	USE-DATE-TO-1.	
028400		05 T-MM-2	PIC XX.
028500		05 FILLER	PIC X VALUE SPACE.
028600		05 T-DD-2	PIC XX.
028700	03	FILLER	PIC X(5) VALUE SPACE.
028800	01	PRINT-4L.	
028900	03	FILLER	PIC X(13) VALUE SPACE.
029000	03	ASTER-11	PIC X(4).
029100	03	FILLER	PIC X(6) VALUE SPACE.
029200	03	ASTER-12	PIC X(2).
029300	03	FILLER	PIC X(8) VALUE SPACE.
029400	03	ASTER-13	PIC X(2).
029500	03	FILLER	PIC X(7) VALUE SPACE.
029600	03	ASTER-14	PIC X(5).
029700	03	FILLER	PIC X(6) VALUE SPACE.
029800	03	ASTER-15	PIC X(5).
029900	03	FILLER	PIC X(5) VALUE SPACE.
030000	03	ASTER-16	PIC X(5).
030100	03	FILLER	PIC X(4) VALUE SPACE.
030200	03	ASTER-17	PIC X(4).
030300	03	FILLER	PIC X(6) VALUE SPACE.
030400	03	ASTER-18	PIC X(2).
030500	03	FILLER	PIC X(8) VALUE SPACE.
030600	03	ASTER-19	PIC X(2).
030700	03	FILLER	PIC X(7) VALUE SPACE.
030800	03	ASTER-20	PIC X(5).
030900	03	FILLER	PIC X(6) VALUE SPACE.
031000	03	ASTER-21	PIC X(5).
031100	03	FILLER	PIC X(5) VALUE SPACE.
031200	03	ASTER-22	PIC X(5).
031300	03	FILLER	PIC X(5) VALUE SPACE.
031400	01	PRINT-5W.	
031500	03	FILLER	PIC X(5) VALUE SPACE.
031600	03	LIN-NUM-P3	PIC X(4).
031700	03	FILLER	PIC X(4) VALUE SPACE.
031800	03	HERD-NO-P3	PIC X(8).
031900	03	FILLER	PIC X(3) VALUE SPACE.
032000	03	ALLOT-NUM-P3	PIC X(4).
032100	03	FILLER	PIC X(5) VALUE SPACE.

032200	03	PCT-HERD-P3	PIC X(3).
032300	03	FILLER	PIC X(8) VALUE SPACE.
032400	03	ANML-GRZG-CD-P3	PIC XX.
032500	03	FILLER	PIC X(9) VALUE SPACE.
032600	03	ANML-EST-POP-P3	PIC X(5).
032700	03	FILLER	PIC X(9) VALUE SPACE.
032800	03	USE-DATE-FROM5.	
032900		05 F-MM-3	PIC XX.
033000		05 FILLER	PIC X VALUE SPACE.
033100		05 F-DD-3	PIC XX.
033200	03	FILLER	PIC X(5) VALUE SPACE.
033300	03	USE-DATE-TO5.	
033400		05 T-MM-4	PIC XX.
033500		05 FILLER	PIC X VALUE SPACE.
033600		05 T-DD-4	PIC XX.
033700	03	FILLER	PIC X(4) VALUE SPACE.
033800	03	SWA-1P	PIC X(4).
033900	03	FILLER	PIC X(3) VALUE SPACE.
034000	03	SWA-2P	PIC X(4).
034100	03	FILLER	PIC X(3) VALUE SPACE.
034200	03	SWA-3P	PIC X(4).
034300	03	FILLER	PIC X(3) VALUE SPACE.
034400	03	SWA-4P	PIC X(4).
034500	03	FILLER	PIC X(3) VALUE SPACE.
034600	03	SWA-5P	PIC X(4).
034700	03	FILLER	PIC X(12) VALUE SPACE.
034800	01	PRINT-6W.	
034900	03	FILLER	PIC X(13) VALUE SPACE.
035000	03	ASTER-24	PIC X(8).
035100	03	FILLER	PIC X(3) VALUE SPACE.
035200	03	ASTER-25	PIC X(4).
035300	03	FILLER	PIC X(5) VALUE SPACE.
035400	03	ASTER-26	PIC X(3).
035500	03	FILLER	PIC X(8) VALUE SPACE.
035600	03	ASTER-27	PIC X(2).
035700	03	FILLER	PIC X(9) VALUE SPACE.
035800	03	ASTER-28	PIC X(5).
035900	03	FILLER	PIC X(9) VALUE SPACE.
036000	03	ASTER-29	PIC X(5).
036100	03	FILLER	PIC X(5) VALUE SPACE.
036200	03	ASTER-30	PIC X(5).
036300	03	FILLER	PIC X(4) VALUE SPACE.
036400	03	ASTER-31	PIC X(4).
036500	03	FILLER	PIC X(3) VALUE SPACE.
036600	03	ASTER-32	PIC X(4).
036700	03	FILLER	PIC X(3) VALUE SPACE.
036800	03	ASTER-33	PIC X(4).
036900	03	FILLER	PIC X(3) VALUE SPACE.
037000	03	ASTER-34	PIC X(4).
037100	03	FILLER	PIC X(3) VALUE SPACE.
037200	03	ASTER-35	PIC X(4).
037300	03	FILLER	PIC X(12) VALUE SPACE.
037400	01	INFO-LIN-1.	
037500	03	FILLER	PIC X(24) VALUE SPACE.
037600	03	FILLER	PIC X(38) VALUE
037700		"IF ERROR CORRECTION IS IN COMMON DATA ".	
037800	03	FILLER	PIC X(46) VALUE

```

037900          "(1-12), KEY ALL RECORDS WITH SAME COMMON DATA.".
038000      03  FILLER                                PIC X(24) VALUE SPACE.
038100  01  INFO-LIN-2.
038200      03  FILLER                                PIC X(24) VALUE SPACE.
038300      03  FILLER                                PIC X(42) VALUE
038400          "IF ERROR CORRECTION IS IN FIELD POSITIONS ".
038500      03  FILLER                                PIC X(45) VALUE
038600          "(24-73), KEY (1-23) AND RED CORRECTED FIELDS.".
038700      03  FILLER                                PIC X(21) VALUE SPACE.
038800  01  HERD-GRP-WORK.
038900      03  ALLOT-NUM-L                            PIC 9(4).
039000      03  ALLOT-NUM-L-A REDEFINES ALLOT-NUM-L PIC  X(4).
039100      03  PASTURE-NUM-L                          PIC 9(2).
039200      03  PASTURE-NUM-L-A REDEFINES PASTURE-NUM-L PIC  X(2).
039300      03  ANML-GRZG-CD-L                        PIC X(2).
039400      03  ANML-EST-POP-L                        PIC 9(5).
039500      03  USE-DATES-L.
039600          07  USE-DATES-L-1ST.
039700              09  USE-DATES-L-1ST-MON PIC 9(2).
039800                  88  MON-1-L VALUES 1 THRU 12.
039900              09  USE-DATES-L-1ST-DAY PIC 9(2).
040000                  88  DAY-1-L VALUES 1 THRU 31.
040100          07  USE-DATES-L-END.
040200              09  USE-DATES-L-END-MON PIC 9(2).
040300                  88  MON-2-L VALUES 1 THRU 12.
040400              09  USE-DATES-L-END-DAY PIC 9(2).
040500                  88  DAY-2-L VALUES 1 THRU 31.
040600  PROCEDURE DIVISION.
040700  005-START SECTION.
040800  010-OPEN-FILES.
040900      READY DIC-DE.
041000      OPEN INPUT VL-VW-IN.
041100      OPEN OUTPUT PRINT-FILE, VL-VW-OUT.
041200      MOVE SPACE TO PRINT-RCD.
041300      WRITE PRINT-RCD BEFORE ADVANCING PAGE.
041400      ACCEPT DATE-HOLD FROM DATE.
041500      MOVE YEAR-H TO YY.
041600      MOVE DAY-H TO DD.
041700      MOVE ALPHA-MONTH (MON-H) TO MMM.
041800      MOVE PAGE-NO TO PAGE-CNT.
041900      MOVE SPACE TO PRINT-2LW, PRINT-4L, PRINT-6W.
042000  015-READ.
042100      READ VL-VW-IN AT END
042200          GO TO 9090-END.
042300  020-HOLD.
042400      MOVE BLM-ADM-IN TO BLM-ADM-HOLD.
042500  025-EDIT-RCD-TYPE.
042600      IF RECORD-FORMAT = "VL1D"
042700          GO TO 035-EDIT-ST.
042800      IF REC-TYP-W = "VL"
042900          GO TO 030-EDIT-VL.
043000      GO TO 700-EDIT-VW.
043100  030-EDIT-VL.
043200      MOVE 1 TO HDR-SW1.
043300      MOVE ALL "*" TO ASTER-1.
043400  035-EDIT-ST.
043500      MOVE BLM-ADM-ST-W TO DE-CD-8822-DEC.

```



```

043600     MOVE 0003 TO DE-NO-8801-DEC.
043700     FIND ANY CODE-DEC.
043800     MOVE DB-STATUS TO DATA-BASE-STATUS.
043900     IF OK
044000         GET CODE-DEC
044100             MOVE DE-CD-NAM-8823-DEC TO FUNC-HOLD
044200             MOVE STATE-NAME TO ST-HDR
044300             GO TO 040-EDIT-DT.
044400     MOVE 1 TO HDR-SW1.
044500     MOVE "UNKNOWN" TO ST-HDR, DIST-HDR.
044600     MOVE ALL "*" TO ASTER-2, ASTER-3, ASTER-4, ASTER-5.
044700     GO TO 057-EXIT-BLM.
044800 040-EDIT-DT.
044900     MOVE BLM-ADM-2 TO DE-CD-8822-DEC.
045000     MOVE 0003 TO DE-NO-8801-DEC.
045100     FIND ANY CODE-DEC.
045200     MOVE DB-STATUS TO DATA-BASE-STATUS.
045300     IF OK
045400         GET CODE-DEC
045500         GO TO 045-FIND-DT.
045600     MOVE "UNKNOWN" TO DIST-HDR.
045700     MOVE 1 TO HDR-SW1.
045800     MOVE ALL "*" TO ASTER-3, ASTER-4, ASTER-5.
045900     GO TO 057-EXIT-BLM.
046000 045-FIND-DT.
046100     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
046200     MOVE DB-STATUS TO DATA-BASE-STATUS.
046300     IF OK
046400         GET CODE-EXPL-DECE
046500             MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HOLD
046600             MOVE DIST-NAME TO DIST-HDR
046700             GO TO 050-EDIT-RA.
046800     MOVE "UNKNOWN" TO DIST-HDR.
046900 050-EDIT-RA.
047000     MOVE BLM-ADM-3 TO DE-CD-8822-DEC.
047100     MOVE 0003 TO DE-NO-8801-DEC.
047200     FIND ANY CODE-DEC.
047300     MOVE DB-STATUS TO DATA-BASE-STATUS.
047400     IF OK
047500         GO TO 055-EDIT-PLU.
047600     MOVE 1 TO HDR-SW1.
047700     MOVE ALL "*" TO ASTER-4, ASTER-5.
047800     GO TO 057-EXIT-BLM.
047900 055-EDIT-PLU.
048000     MOVE BLM-ADM-4 TO DE-CD-8822-DEC.
048100     MOVE 0003 TO DE-NO-8801-DEC.
048200     FIND ANY CODE-DEC.
048300     MOVE DB-STATUS TO DATA-BASE-STATUS.
048400     IF OK
048500         GO TO 057-EXIT-BLM.
048600     MOVE ALL "*" TO ASTER-5.
048700     MOVE 1 TO HDR-SW1.
048800 057-EXIT-BLM.
048900     EXIT.
049000 058-MOVE-HERD.
049100     MOVE HERD-GRP (1) TO HERD-GRP-WORK.
049200     IF ALLOT-NUM-L-A = SPACE GO TO 095-NEXT-SET.

```

```

049300 060-EDIT-ALLOTMENT.
049400     IF ALLOT-NUM-L NUMERIC GO TO 065-PASTURE.
049500     MOVE 1 TO HDR-SW2.
049600     PERFORM 081-ASTERISK.
049700 065-PASTURE.
049800     IF PASTURE-NUM-L-A = SPACE
049900         GO TO 070-ANML-SP.
050000     IF PASTURE-NUM-L = ZERO
050100         GO TO 070-ANML-SP.
050200     IF PASTURE-NUM-L NUMERIC AND PASTURE-NUM-L
050300         GREATER THAN ZERO
050400         GO TO 070-ANML-SP.
050500     MOVE 1 TO HDR-SW2.
050600     PERFORM 082-ASTERISK.
050700 070-ANML-SP.
050800*     MOVE ANML-GRZG-CD-L TO DE-CD-8822-DEC.
050900*     MOVE 3929 TO DE-NO-8801-DEC.
051000*     FIND ANY CODE-DEC.
051100*     MOVE DB-STATUS TO DATA-BASE-STATUS.
051200*     IF OK
051300*         GO TO 075-ANML-EST-POP.
051400*     MOVE 1 TO HDR-SW2.
051500*     PERFORM 083-ASTERISK.
051600 075-ANML-EST-POP.
051700     IF ANML-EST-POP-L NUMERIC AND ANML-EST-POP-L > ZERO
051800         GO TO 080-USE-DATES.
051900     MOVE 1 TO HDR-SW2.
052000     PERFORM 084-ASTERISK.
052100 080-USE-DATES.
052200     IF MON-1-L NEXT SENTENCE ELSE
052300         MOVE 1 TO HDR-SW2
052400     PERFORM 085-ASTERISK.
052500     IF DAY-1-L NEXT SENTENCE ELSE
052600         MOVE 1 TO HDR-SW2
052700     PERFORM 085-ASTERISK.
052800     IF MON-2-L NEXT SENTENCE ELSE
052900         MOVE 1 TO HDR-SW2
053000     PERFORM 086-ASTERISK.
053100     IF DAY-2-L NEXT SENTENCE ELSE
053200         MOVE 1 TO HDR-SW2
053300     PERFORM 086-ASTERISK.
053400     IF (USE-DATES-L-1ST-MON = 04 OR 06 OR 09 OR 11)
053500     AND (USE-DATES-L-1ST-DAY = 31)
053600         MOVE 1 TO HDR-SW2
053700     PERFORM 085-ASTERISK.
053800     IF (USE-DATES-L-END-MON = 04 OR 06 OR 09 OR 11)
053900     AND (USE-DATES-L-END-DAY = 31)
054000         MOVE 1 TO HDR-SW2
054100     PERFORM 086-ASTERISK.
054200     IF (USE-DATES-L-1ST-MON = 02)
054300     AND (USE-DATES-L-1ST-DAY > 28)
054400         MOVE 1 TO HDR-SW2
054500     PERFORM 085-ASTERISK.
054600     IF (USE-DATES-L-END-MON = 02)
054700     AND (USE-DATES-L-END-DAY > 28)
054800         MOVE 1 TO HDR-SW2
054900     PERFORM 086-ASTERISK.

```

```

055000      GO TO 090-EXIT-EDIT.
055100 081-ASTERISK.
055200      IF HDR-SW3 = ZERO
055300          MOVE ALL "*" TO ASTER-11
055400          ELSE MOVE ALL "*" TO ASTER-17.
055500 082-ASTERISK.
055600      IF HDR-SW3 = ZERO
055700          MOVE ALL "*" TO ASTER-12
055800          ELSE MOVE ALL "*" TO ASTER-18.
055900 083-ASTERISK.
056000      IF HDR-SW3 = ZERO
056100          MOVE ALL "*" TO ASTER-13
056200          ELSE MOVE ALL "*" TO ASTER-19.
056300 084-ASTERISK.
056400      IF HDR-SW3 = ZERO
056500          MOVE ALL "*" TO ASTER-14
056600          ELSE MOVE ALL "*" TO ASTER-20.
056700 085-ASTERISK.
056800      IF HDR-SW3 = ZERO
056900          MOVE ALL "*" TO ASTER-15
057000          ELSE MOVE ALL "*" TO ASTER-21.
057100 086-ASTERISK.
057200      IF HDR-SW3 = ZERO
057300          MOVE ALL "*" TO ASTER-16
057400          ELSE MOVE ALL "*" TO ASTER-22.
057500 090-EXIT-EDIT.
057600      EXIT.
057700 095-NEXT-SET.
057800      MOVE HERD-GRP (2) TO HERD-GRP-WORK.
057900      IF ALLOT-NUM-L-A = SPACE
058000          GO TO 100-SWITCH-CHECK.
058100      MOVE 1 TO HDR-SW3.
058200      PERFORM 060-EDIT-ALLOTMENT THRU 090-EXIT-EDIT.
058300      MOVE ZERO TO HDR-SW3.
058400 100-SWITCH-CHECK.
058500      IF HDR-SW1 = ZERO
058600          GO TO 115-HDR-SW2.
058700      IF PAGE-SW = 1
058800          PERFORM 415-HDR-ST-DIST
058900          MOVE ZERO TO PAGE-SW.
059000      PERFORM 420-HDRS-CNTL.
059100 105-WRITE-CONTROL.
059200      PERFORM 430-MOVE-CTL-DATA.
059300      MOVE PRINT-1LW TO PRINT-RCD.
059400      WRITE PRINT-RCD BEFORE 1.
059500      MOVE PRINT-2LW TO PRINT-RCD.
059600      WRITE PRINT-RCD BEFORE 2.
059700      ADD 3 TO LINE-CNT.
059800      MOVE 1 TO ERROR-SW.
059900 110-WRITE-DATA.
060000      PERFORM 425-HDRS-DATA.
060100      PERFORM 435-MOVE-DATA THRU 450-EXIT-MOVE.
060200      MOVE PRINT-3L TO PRINT-RCD.
060300      WRITE PRINT-RCD BEFORE 1.
060400      IF HDR-SW2 = ZERO
060500          MOVE SPACE TO PRINT-RCD
060600          ELSE

```

```

060700             MOVE PRINT-4L TO PRINT-RCD
060800             MOVE 1 TO ERROR-SW.
060900             WRITE PRINT-RCD BEFORE 2.
061000             ADD 3 TO LINE-CNT.
061100 112-DUMMY.
061200             GO TO 120-NEW-RCD.
061300 115-HDR-SW2.
061400             IF HDR-SW2 = ZERO
061500                 GO TO 120-NEW-RCD.
061600             IF PAGE-SW = ZERO
061700                 PERFORM 110-WRITE-DATA
061800                 GO TO 120-NEW-RCD.
061900             PERFORM 415-HDR-ST-DIST THRU 420-HDRS-CNTL.
062000             PERFORM 430-MOVE-CTL-DATA.
062100             MOVE PRINT-1LW TO PRINT-RCD.
062200             WRITE PRINT-RCD BEFORE 1.
062300             ADD 1 TO LINE-CNT.
062400             MOVE ZERO TO PAGE-SW.
062500             PERFORM 110-WRITE-DATA.
062600 120-NEW-RCD.
062700             MOVE HERD-GRP (1) TO HERD-GRP-WORK.
062800             IF (PASTURE-NUM-L-A = SPACE AND ALLOT-NUM-L-A NOT = SPACE)
062900                 MOVE ZERO TO PASTURE-NUM-L
063000                 MOVE HERD-GRP-WORK TO HERD-GRP (1).
063100             MOVE HERD-GRP (2) TO HERD-GRP-WORK.
063200             IF (PASTURE-NUM-L-A = SPACE AND ALLOT-NUM-L-A NOT = SPACE)
063300                 MOVE ZERO TO PASTURE-NUM-L
063400                 MOVE HERD-GRP-WORK TO HERD-GRP (2).
063500             IF (ALOT-VL (1) = SPACE) AND
063600                 (ALOT-VL (2) = SPACE)
063700                 GO TO 130-READ-NEXT.
063800             MOVE VL-RCD TO VL-VW-RCD.
063900             WRITE VL-VW-RCD.
064000             GO TO 130-READ-NEXT.
064100 125-ZERO-OUT.
064200             MOVE ZERO TO HDR-SW1, HDR-SW2, HDR-SW3.
064300             MOVE SPACE TO PRINT-2LW, PRINT-4L, PRINT-6W.
064400 130-READ-NEXT.
064500             READ VL-VW-IN AT END
064600                 GO TO 9090-END.
064700             IF RECORD-FORMAT = "VL1D"
064800                 GO TO 135-ST-CHECK.
064900             IF REC-TYP-W = "VL"
065000                 PERFORM 030-EDIT-VL
065100                 GO TO 135-ST-CHECK.
065200             GO TO 700-EDIT-VW.
065300 135-ST-CHECK.
065400             IF BLM-ADM-ST-W = ST-HOLD
065500                 GO TO 150-DIST-CHECK.
065600             PERFORM 145-NEW-PAGE.
065700             GO TO 035-EDIT-ST.
065800 145-NEW-PAGE.
065900             MOVE 0 TO PAGE-NO.
066000             MOVE 1 TO PAGE-SW.
066100             PERFORM 125-ZERO-OUT.
066200             PERFORM 020-HOLD.
066300 150-DIST-CHECK.

```

```

066400     IF BLM-ADM-DIST-W = DT-HOLD
066500         GO TO 155-RA-CHECK.
066600     PERFORM 145-NEW-PAGE.
066700     GO TO 035-EDIT-ST.
066800 155-RA-CHECK.
066900     IF BLM-ADM-RA-W = RA-HOLD
067000         GO TO 160-PLU-CHECK.
067100     MOVE 1 TO PAGE-SW.
067200     PERFORM 125-ZERO-OUT.
067300     PERFORM 020-HOLD.
067400     GO TO 035-EDIT-ST.
067500 160-PLU-CHECK.
067600     IF BLM-ADM-PLU-W = PLU-HOLD
067700         GO TO 165-EQUAL-CONTROL.
067800     MOVE 1 TO PAGE-SW.
067900     PERFORM 125-ZERO-OUT.
068000     PERFORM 020-HOLD.
068100     GO TO 035-EDIT-ST.
068200 165-EQUAL-CONTROL.
068300     MOVE SPACE TO PRINT-4L.
068400     MOVE ZERO TO HDR-SW2.
068500     MOVE HERD-GRP (1) TO HERD-GRP-WORK.
068600     IF ALLOT-NUM-L-A NOT = SPACE
068700         PERFORM 060-EDIT-ALLOTMENT THRU 090-EXIT-EDIT.
068800     MOVE HERD-GRP (2) TO HERD-GRP-WORK.
068900     MOVE 1 TO HDR-SW3.
069000     IF ALLOT-NUM-L-A = SPACE NEXT SENTENCE ELSE
069100         PERFORM 060-EDIT-ALLOTMENT THRU 090-EXIT-EDIT.
069200     MOVE ZERO TO HDR-SW3.
069300     IF HDR-SW1 NOT = ZERO
069400         GO TO 166-PAGE.
069500     IF HDR-SW2 = ZERO
069600         GO TO 120-NEW-RCD.
069700 166-PAGE.
069800     IF PAGE-SW = ZERO
069900         GO TO 170-CONTINUE.
070000     MOVE ZERO TO PAGE-SW.
070100     PERFORM 415-HDR-ST-DIST THRU 420-HDRS-CNTL.
070200     PERFORM 430-MOVE-CTL-DATA.
070300     MOVE PRINT-1LW TO PRINT-RCD.
070400     WRITE PRINT-RCD BEFORE 1.
070500     IF HDR-SW1 = 1
070600         MOVE PRINT-2LW TO PRINT-RCD
070700         MOVE 1 TO ERROR-SW
070800         ELSE
070900         MOVE SPACE TO PRINT-RCD.
071000     WRITE PRINT-RCD BEFORE 2.
071100     ADD 3 TO LINE-CNT.
071200     PERFORM 425-HDRS-DATA.
071300 170-CONTINUE.
071400     PERFORM 435-MOVE-DATA THRU 450-EXIT-MOVE.
071500     MOVE PRINT-3L TO PRINT-RCD.
071600     MOVE 1 TO ERROR-SW.
071700     WRITE PRINT-RCD BEFORE 1.
071800     IF HDR-SW2 = ZERO
071900         MOVE SPACE TO PRINT-RCD
072000     ELSE

```

072100 MOVE PRINT-4L TO PRINT-RCD  
072200 MOVE 1 TO ERROR-SW.  
072300 WRITE PRINT-RCD BEFORE 2.  
072400 ADD 3 TO LINE-CNT.  
072500 IF LINE-CNT GREATER THAN 54  
072600 MOVE 1 TO PAGE-SW.  
072700 GO TO 120-NEW-RCD.  
072800 400-LINE-CNT.  
072900 MOVE SPACE TO PRINT-RCD.  
073000 WRITE PRINT-RCD BEFORE PAGE.  
073100 MOVE ZERO TO LINE-CNT.  
073200 MOVE 0 TO PAGE-SW.  
073300 ADD 1 TO PAGE-NO.  
073400 MOVE PAGE-NO TO PAGE-CNT.  
073500 415-HDR-ST-DIST.  
073600 PERFORM 400-LINE-CNT.  
073700 MOVE HDR-1 TO PRINT-RCD.  
073800 WRITE PRINT-RCD BEFORE 2.  
073900 MOVE HDR-2 TO PRINT-RCD.  
074000 WRITE PRINT-RCD BEFORE 2.  
074100 MOVE INFO-LIN-1 TO PRINT-RCD.  
074200 WRITE PRINT-RCD BEFORE 1.  
074300 MOVE INFO-LIN-2 TO PRINT-RCD.  
074400 WRITE PRINT-RCD BEFORE 2.  
074500 ADD 7 TO LINE-CNT.  
074600 420-HDRS-CNTL.  
074700 MOVE HDR-3 TO PRINT-RCD.  
074800 WRITE PRINT-RCD BEFORE 1.  
074900 MOVE HDR-4 TO PRINT-RCD.  
075000 WRITE PRINT-RCD BEFORE 1.  
075100 MOVE HDR-5 TO PRINT-RCD.  
075200 WRITE PRINT-RCD BEFORE 2.  
075300 ADD 4 TO LINE-CNT.  
075400 425-HDRS-DATA.  
075500 MOVE HDR-6L TO PRINT-RCD.  
075600 WRITE PRINT-RCD BEFORE 1.  
075700 MOVE HDR-7L TO PRINT-RCD.  
075800 WRITE PRINT-RCD BEFORE 1.  
075900 MOVE HDR-8L TO PRINT-RCD.  
076000 WRITE PRINT-RCD BEFORE 2.  
076100 ADD 4 TO LINE-CNT.  
076200 430-MOVE-CTL-DATA.  
076300 MOVE RECORD-FORMAT TO REC-TYP-P.  
076400 MOVE BLM-ADM-ST-W TO BLM-ADM-ST.  
076500 MOVE BLM-ADM-DIST-W TO BLM-ADM-DIST.  
076600 MOVE BLM-ADM-RA-W TO BLM-ADM-RA.  
076700 MOVE BLM-ADM-PLU-W TO BLM-ADM-PLU.  
076800 MOVE DATA-DATE-W TO DATA-DATE-P.  
076900 MOVE ACTN-CD-W TO ACTN-CD-P.  
077000 435-MOVE-DATA.  
077100 MOVE LIN-NUM-W TO LIN-NUM-P1.  
077200 MOVE HERD-GRP (1) TO HERD-GRP-WORK.  
077300 PERFORM 440-MOVE-ALOT-DTD-1.  
077400 MOVE HERD-GRP (2) TO HERD-GRP-WORK.  
077500 PERFORM 445-MOVE-ALOT-DTD-2.  
077600 GO TO 450-EXIT-MOVE.  
077700 440-MOVE-ALOT-DTD-1.

```

077800     MOVE ALLOT-NUM-L TO ALLOT-NUM-P1.
077900     MOVE PASTURE-NUM-L TO PASTURE-NUM-P1.
078000     MOVE ANML-GRZG-CD-L TO ANML-GRZG-CD-P1.
078100     MOVE ANML-EST-POP-L TO ANML-EST-POP-P1.
078200     MOVE USE-DATES-L-1ST-MON TO F-MM-1.
078300     MOVE USE-DATES-L-1ST-DAY TO F-DD-1.
078400     MOVE USE-DATES-L-END-MON TO T-MM-1.
078500     MOVE USE-DATES-L-END-DAY TO T-DD-1.
078600 445-MOVE-ALOT-DTD-2.
078700     MOVE ALLOT-NUM-L TO ALLOT-NUM-P2.
078800     MOVE PASTURE-NUM-L TO PASTURE-NUM-P2.
078900     MOVE ANML-GRZG-CD-L TO ANML-GRZG-CD-P2.
079000     MOVE ANML-EST-POP-L TO ANML-EST-POP-P2.
079100     MOVE USE-DATES-L-1ST-MON TO F-MM-2.
079200     MOVE USE-DATES-L-1ST-DAY TO F-DD-2.
079300     MOVE USE-DATES-L-END-MON TO T-MM-2.
079400     MOVE USE-DATES-L-END-DAY TO T-DD-2.
079500 450-EXIT-MOVE.
079600     EXIT.
079700 700-EDIT-VW.
079800     PERFORM 145-NEW-PAGE.
079900     MOVE "VW" TO VL-VW-TYPE.
080000 705-EDIT-FORMAT.
080100     IF RECORD-FORMAT = "VW1D"
080200         GO TO 710-EXIT-FORMAT.
080300     IF REC-TYP-W = "VW"
080400         PERFORM 030-EDIT-VL
080500         GO TO 710-EXIT-FORMAT.
080600     DISPLAY "RECORD NOT PROCESSED***".
080700     DISPLAY VL-RCD.
080800     READ VL-VW-IN AT END
080900         GO TO 9090-END.
081000     IF RECORD-FORMAT = "VL1D" OR REC-TYP-W = "VL"
081100         DISPLAY "OUT OF SEQUENCE"
081200         GO TO 9095-CLOSE.
081300 710-EXIT-FORMAT.
081400     EXIT.
081500 715-BLM-ADM-CHECK.
081600     PERFORM 035-EDIT-ST THRU 057-EXIT-BLM.
081700 720-ALLOTMENT-W.
081800     IF ALLOT-NUM-W NUMERIC GO TO 725-PCT-HERD.
081900     MOVE 1 TO HDR-SW2.
082000     MOVE ALL "*" TO ASTER-25.
082100 725-PCT-HERD.
082200     IF HERD-UNIT-ALLOT-PCT NUMERIC OR
082300         HERD-UNIT-ALLOT-PCT = SPACES
082400         GO TO 730-ANML-SP.
082500     MOVE 1 TO HDR-SW2.
082600     MOVE ALL "*" TO ASTER-26.
082700 730-ANML-SP.
082800*     MOVE ANML-GRZG-CD-W TO DE-CD-8822-DEC.
082900*     MOVE 3929 TO DE-NO-8801-DEC.
083000*     FIND ANY CODE-DEC.
083100*     MOVE DB-STATUS TO DATA-BASE-STATUS.
083200*     IF OK
083300*         GO TO 735-EST-ANML-POP.
083400*     MOVE 1 TO HDR-SW2.

```

```

083500*   MOVE ALL "*" TO ASTER-27.
083600 735-EST-ANML-POP.
083700   IF ANML-EST-POP-W NUMERIC OR ANML-EST-POP-W = SPACE
083800     GO TO 740-DATES-USE.
083900   MOVE 1 TO HDR-SW2.
084000   MOVE ALL "*" TO ASTER-28.
084100 740-DATES-USE.
084200   IF MON-1-W NEXT SENTENCE ELSE
084300     MOVE 1 TO HDR-SW2
084400     MOVE ALL "*" TO ASTER-29.
084500   IF DAY-1-W NEXT SENTENCE ELSE
084600     MOVE 1 TO HDR-SW2
084700     MOVE ALL "*" TO ASTER-29.
084800   IF MON-2-W NEXT SENTENCE ELSE
084900     MOVE 1 TO HDR-SW2
085000     MOVE ALL "*" TO ASTER-30.
085100   IF DAY-2-W NEXT SENTENCE ELSE
085200     MOVE 1 TO HDR-SW2
085300     MOVE ALL "*" TO ASTER-30.
085400   IF (USE-DATES1ST-MON = 04 OR 06 OR 09 OR 11)
085500   AND (USE-DATES1ST-DAY = 31)
085600     MOVE 1 TO HDR-SW2
085700     MOVE ALL "*" TO ASTER-29.
085800   IF (USE-DATESEND-MON = 04 OR 06 OR 09 OR 11)
085900   AND (USE-DATESEND-DAY = 31)
086000     MOVE 1 TO HDR-SW2
086100     MOVE ALL "*" TO ASTER-30.
086200   IF (USE-DATES1ST-MON = 02)
086300   AND (USE-DATES1ST-DAY > 28)
086400     MOVE 1 TO HDR-SW2
086500     MOVE ALL "*" TO ASTER-29.
086600   IF (USE-DATESEND-MON = 02)
086700   AND (USE-DATESEND-DAY > 28)
086800     MOVE 1 TO HDR-SW2
086900     MOVE ALL "*" TO ASTER-30.
087000 750-SWA1.
087100   IF SWA-GRP = SPACES
087200     MOVE ALL "*" TO ASTER-31, ASTER-32,
087300     ASTER-33, ASTER-34, ASTER-35
087400     MOVE 1 TO HDR-SW2
087500     GO TO 775-EDIT-COMPLETE.
087600   IF SWA-SET (1) = "9999"
087700     GO TO 775-EDIT-COMPLETE.
087800   IF SWA-SET (1) = SPACE
087900     GO TO 755-SWA2.
088000   IF SWACD-W (1) = SPACES
088100     MOVE ALL "*" TO ASTER-31
088200     MOVE 1 TO HDR-SW2
088300     GO TO 755-SWA2.
088400   IF SWACD-W (1) NOT ALPHABETIC
088500     MOVE ALL "*" TO ASTER-31
088600     MOVE 1 TO HDR-SW2
088700     GO TO 755-SWA2.
088800   IF SWA-THREE (1) NUMERIC
088900     GO TO 755-SWA2.
089000   MOVE ALL "*" TO ASTER-31.
089100   MOVE 1 TO HDR-SW2.

```



```
089200 755-SWA2.
089300     IF SWA-SET (2) = SPACE
089400         GO TO 760-SWA3.
089500     IF SWACD-W (2) = SPACES
089600         MOVE ALL "*" TO ASTER-32
089700         MOVE 1 TO HDR-SW2
089800         GO TO 760-SWA3.
089900     IF SWACD-W (2) NOT ALPHABETIC
090000         MOVE ALL "*" TO ASTER-32
090100         MOVE 1 TO HDR-SW2
090200         GO TO 760-SWA3.
090300     IF SWA-THREE (2) NUMERIC
090400         GO TO 760-SWA3.
090500     MOVE ALL "*" TO ASTER-32.
090600     MOVE 1 TO HDR-SW2.
090700 760-SWA3.
090800     IF SWA-SET (3) = SPACE
090900         GO TO 765-SWA4.
091000     IF SWACD-W (3) = SPACES
091100         MOVE ALL "*" TO ASTER-33
091200         MOVE 1 TO HDR-SW2
091300         GO TO 765-SWA4.
091400     IF SWACD-W (3) NOT ALPHABETIC
091500         MOVE ALL "*" TO ASTER-33
091600         MOVE 1 TO HDR-SW2
091700         GO TO 765-SWA4.
091800     IF SWA-THREE (3) NUMERIC
091900         GO TO 765-SWA4.
092000     MOVE ALL "*" TO ASTER-33.
092100     MOVE 1 TO HDR-SW2.
092200 765-SWA4.
092300     IF SWA-SET (4) = SPACE
092400         GO TO 770-SWA5.
092500     IF SWACD-W (4) = SPACES
092600         MOVE ALL "*" TO ASTER-34
092700         MOVE 1 TO HDR-SW2
092800         GO TO 770-SWA5.
092900     IF SWACD-W (4) NOT ALPHABETIC
093000         MOVE ALL "*" TO ASTER-34
093100         MOVE 1 TO HDR-SW2
093200         GO TO 770-SWA5.
093300     IF SWA-THREE (4) NUMERIC
093400         GO TO 770-SWA5.
093500     MOVE ALL "*" TO ASTER-34.
093600     MOVE 1 TO HDR-SW2.
093700 770-SWA5.
093800     IF SWA-SET (5) = SPACE
093900         GO TO 775-EDIT-COMPLETE.
094000     IF SWACD-W (5) = SPACES
094100         MOVE ALL "*" TO ASTER-35
094200         MOVE 1 TO HDR-SW2
094300         GO TO 775-EDIT-COMPLETE.
094400     IF SWACD-W (5) NOT ALPHABETIC
094500         MOVE ALL "*" TO ASTER-35
094600         MOVE 1 TO HDR-SW2
094700         GO TO 775-EDIT-COMPLETE.
094800     IF SWA-THREE (5) NUMERIC
```

```

094900          GO TO 775-EDIT-COMPLETE.
095000          MOVE ALL "*" TO ASTER-35.
095100          MOVE 1 TO HDR-SW2.
095200 775-EDIT-COMPLETE.
095300          EXIT.
095400 776-HDR-CHECK.
095500          IF HDR-SW1 = ZERO
095600              GO TO 795-HDR-SW2.
095700          IF PAGE-SW = 1
095800              PERFORM 415-HDR-ST-DIST
095900              MOVE ZERO TO PAGE-SW.
096000          PERFORM 420-HDRS-CNTL.
096100 780-WRITE-CNTL.
096200          PERFORM 430-MOVE-CTL-DATA.
096300          MOVE PRINT-1LW TO PRINT-RCD.
096400          WRITE PRINT-RCD BEFORE 1.
096500          MOVE PRINT-2LW TO PRINT-RCD.
096600          WRITE PRINT-RCD BEFORE 2.
096700          ADD 3 TO LINE-CNT.
096800          MOVE 1 TO ERROR-SW.
096900 785-WRITE-DATA.
097000          PERFORM 900-HDRS-W THRU 910-DATA-W.
097100          MOVE PRINT-5W TO PRINT-RCD.
097200          WRITE PRINT-RCD BEFORE 1.
097300          IF HDR-SW2 = 1
097400              MOVE PRINT-6W TO PRINT-RCD
097500              MOVE 1 TO ERROR-SW
097600          ELSE
097700              MOVE SPACE TO PRINT-RCD.
097800          WRITE PRINT-RCD BEFORE 2.
097900          ADD 3 TO LINE-CNT.
098000 790-DUMMY.
098100          GO TO 800-NEW-RCD.
098200 795-HDR-SW2.
098300          IF HDR-SW2 = ZERO
098400              GO TO 800-NEW-RCD.
098500          IF PAGE-SW = ZERO
098600              PERFORM 785-WRITE-DATA
098700              GO TO 800-NEW-RCD.
098800          PERFORM 415-HDR-ST-DIST THRU 420-HDRS-CNTL.
098900          MOVE ZERO TO PAGE-SW.
099000          PERFORM 780-WRITE-CNTL THRU 785-WRITE-DATA.
099100 800-NEW-RCD.
099200          IF HERD-UNIT-ALLOT-PCT = SPACE
099300              MOVE ZERO TO HERD-UNIT-ALLOT-PCT.
099400          IF ANML-EST-POP-W = SPACE
099500              MOVE ZERO TO ANML-EST-POP-W.
099600          MOVE VW-RCD TO VL-VW-RCD.
099700          WRITE VL-VW-RCD.
099800          GO TO 810-READ-NEXT.
099900 805-ZERO-OUT.
100000          MOVE ZERO TO HDR-SW1, HDR-SW2
100100          MOVE SPACE TO PRINT-2LW, PRINT-6W.
100200 810-READ-NEXT.
100300          READ VL-VW-IN AT END
100400          GO TO 9090-END.
100500          PERFORM 705-EDIT-FORMAT THRU 710-EXIT-FORMAT.

```

```
100600 815-BLM-ST.
100700     IF BLM-ADM-ST-W = ST-HOLD
100800         GO TO 820-BLM-DIST.
100900     PERFORM 145-NEW-PAGE.
101000     GO TO 715-BLM-ADM-CHECK.
101100 820-BLM-DIST.
101200     IF BLM-ADM-DIST-W = DT-HOLD
101300         GO TO 825-BLM-RA.
101400     PERFORM 145-NEW-PAGE.
101500     GO TO 715-BLM-ADM-CHECK.
101600 825-BLM-RA.
101700     IF BLM-ADM-RA-W = RA-HOLD
101800         GO TO 830-BLM-PLU.
101900     MOVE 1 TO PAGE-SW.
102000     PERFORM 125-ZERO-OUT.
102100     PERFORM 020-HOLD.
102200     GO TO 715-BLM-ADM-CHECK.
102300 830-BLM-PLU.
102400     IF BLM-ADM-PLU-W = PLU-HOLD
102500         GO TO 840-EDIT-NEXT.
102600     MOVE 1 TO PAGE-SW.
102700     PERFORM 125-ZERO-OUT.
102800     PERFORM 020-HOLD.
102900     GO TO 715-BLM-ADM-CHECK.
103000 840-EDIT-NEXT.
103100     MOVE SPACE TO PRINT-6W.
103200     MOVE ZERO TO HDR-SW2.
103300     PERFORM 720-ALLOTMENT-W THRU 775-EDIT-COMPLETE.
103400     IF HDR-SW1 NOT = TO ZERO
103500         GO TO 841-PAGE.
103600     IF HDR-SW2 = ZERO
103700         GO TO 800-NEW-RCD.
103800 841-PAGE.
103900     IF PAGE-SW = ZERO
104000         GO TO 850-CONTINUE.
104100     MOVE ZERO TO PAGE-SW.
104200     PERFORM 415-HDR-ST-DIST THRU 420-HDRS-CNTL.
104300     PERFORM 430-MOVE-CTL-DATA.
104400     MOVE PRINT-1LW TO PRINT-RCD.
104500     WRITE PRINT-RCD BEFORE 1.
104600     IF HDR-SW1 = ZERO
104700         MOVE SPACE TO PRINT-RCD
104800     ELSE
104900         MOVE PRINT-2LW TO PRINT-RCD
105000         MOVE 1 TO ERROR-SW.
105100     WRITE PRINT-RCD BEFORE 2.
105200     ADD 3 TO LINE-CNT.
105300     PERFORM 900-HDRS-W.
105400 850-CONTINUE.
105500     PERFORM 910-DATA-W.
105600     MOVE PRINT-5W TO PRINT-RCD.
105700     WRITE PRINT-RCD BEFORE 1.
105800     IF HDR-SW2 = ZERO
105900         MOVE SPACE TO PRINT-RCD
106000     ELSE
106100         MOVE PRINT-6W TO PRINT-RCD
106200         MOVE 1 TO ERROR-SW.
```

```

106300    WRITE PRINT-RCD BEFORE 2.
106400    ADD 3 TO LINE-CNT.
106500    IF LINE-CNT > 54
106600        MOVE 1 TO PAGE-SW.
106700    GO TO 800-NEW-RCD.
106800 900-HDRS-W.
106900    MOVE HDR-9W TO PRINT-RCD.
107000    WRITE PRINT-RCD BEFORE 1.
107100    MOVE HDR-10W TO PRINT-RCD.
107200    WRITE PRINT-RCD BEFORE 1.
107300    MOVE HDR-11W TO PRINT-RCD.
107400    WRITE PRINT-RCD BEFORE 2.
107500    ADD 4 TO LINE-CNT.
107600 910-DATA-W.
107700    MOVE LIN-NUM-W TO LIN-NUM-P3.
107800    MOVE HERD-UNIT-NUM-W TO HERD-NO-P3.
107900    MOVE ALLOT-NUM-W TO ALLOT-NUM-P3.
108000    MOVE HERD-UNIT-ALLOT-PCT TO PCT-HERD-P3.
108100    MOVE ANML-GRZG-CD-W TO ANML-GRZG-CD-P3.
108200    MOVE ANML-EST-POP-W TO ANML-EST-POP-P3.
108300    MOVE USE-DATES1ST-MON TO F-MM-3.
108400    MOVE USE-DATES1ST-DAY TO F-DD-3.
108500    MOVE USE-DATESEND-MON TO T-MM-4.
108600    MOVE USE-DATESEND-DAY TO T-DD-4.
108700    MOVE SWA-SET (1) TO SWA-1P.
108800    MOVE SWA-SET (2) TO SWA-2P.
108900    MOVE SWA-SET (3) TO SWA-3P.
109000    MOVE SWA-SET (4) TO SWA-4P.
109100    MOVE SWA-SET (5) TO SWA-5P.
109200 9090-END.
109300    IF ERROR-SW = 1
109400        PERFORM 400-LINE-CNT
109500        GO TO 9095-CLOSE.
109600    DISPLAY "NO ERRORS DETECTED ON THESE RECORDS".
109700 9095-CLOSE.
109800    CLOSE VL-VW-IN, VL-VW-OUT, PRINT-FILE.
109900    FINISH.
110000    STOP RUN.

```

```

000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES510P.
000300*    ALLOTMENT LEVEL ACREAGE (P1 LIST)
000400*
000500 AUTHOR. M.QUANDT.
000600 ENVIRONMENT DIVISION.
000700 CONFIGURATION SECTION.
000800 SOURCE-COMPUTER. LEVEL-66-ASCII.
000900 OBJECT-COMPUTER. LEVEL-66-ASCII.
001000 INPUT-OUTPUT SECTION.
001100 FILE-CONTROL.
001200    SELECT INPUT-FILE ASSIGN TO I1
001300        ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001400    SELECT PRINT-OUT ASSIGN TO P1
001500        ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600 DATA DIVISION.
001700 SUB-SCHEMA SECTION.
001800 DB    CODVAL2 WITHIN BLMDIC.

```

001900 FILE SECTION.  
002000 FD INPUT-FILE  
002100 CODE-SET IS GBCD  
002200 LABEL RECORDS ARE STANDARD.  
002300 01 IN-RECORD.  
002400 05 REC-TYP PIC XX.  
002500 05 FMT-NUM PIC X.  
002600 05 FORMAT-CD PIC X.  
002700 05 BLM-ADM-U PIC X(8).  
002800 05 ALLOT-NUM PIC X(4).  
002900 05 PASTURE-NUM PIC XX.  
003000 05 DATA-DATE PIC X(6).  
003100 05 ACTION-CD PIC X.  
003200 05 MAP-SRC PIC X(4).  
003300 05 IN-MTR-MER-CD PIC XX.  
003400 05 LIN-NUM PIC X(4).  
003500 05 MTR-TWSHP PIC X(5).  
003600 05 IN-MTR-RNG PIC X(5).  
003700 05 IN-SEC-SECT PIC XXX.  
003800 05 SWA PIC X(4).  
003900 05 FILLER PIC X(16).  
004000 05 ACR-DU PIC 9(5).  
004100 05 COMBO.  
004200 10 OWN-TYP PIC X(4).  
004300 10 JURIS PIC X(4).  
004400 10 IN-ADMIN PIC X(4).  
004500 10 LAND-TYP PIC X(4).  
004600 05 FILLER PIC X.  
004700 FD PRINT-OUT  
004800 CODE-SET IS GBCD  
004900 LABEL RECORDS ARE STANDARD.  
005000 01 PRINT-LINE PIC X(132).  
005100 WORKING-STORAGE SECTION.  
005200 77 NEW-ALLOT PIC X(4).  
005300 77 SUB-CHK PIC 9(4) VALUE ZERO.  
005400 77 OLD-ALLOT PIC X(4).  
005500 77 NEW-PASTURE PIC XX.  
005600 77 OLD-PASTURE PIC XX.  
005700 77 NEW-SWA PIC X(4).  
005800 77 OLD-SWA PIC X(4).  
005900 77 NEW-SKEY PIC X(8).  
006000 77 OLD-SKEY PIC X(8).  
006100 77 PAGE-COUNT PIC 9(5) VALUE ZERO.  
006200 77 LINE-COUNT PIC 99 VALUE ZERO.  
006300 77 READ-COUNT PIC 9(7) VALUE ZEROS.  
006400 77 DATA-PRINT-COUNT PIC 9(7) VALUE ZEROS.  
006500 77 WORK-SPACES PIC X(132) VALUE SPACES.  
006600 77 WORK-PRINT PIC X(132).  
006700 77 TOTAL-SWA-ACRES PIC 9(7) VALUE ZERO.  
006800 77 TOTAL-PASTURE-ACRES PIC 9(7) VALUE ZERO.  
006900 77 TOTAL-ALLOT-ACRES PIC 9(7) VALUE ZERO.  
007000 77 SUB-SCRIPT PIC 9999 VALUE ZERO.  
007100 77 FIND-SCRIPT PIC 9999 VALUE ZERO.  
007200 77 SAVE-PASTURE PIC XX.  
007300 77 WS-PASTURE PIC XX.  
007400 77 SAVE-ALLOTMENT PIC 9(4).  
007500 01 HOLD-AREA.

007600 03 ADST-DIST-RA-PLU-CDS-H.  
007700 05 ADST-CD-H PIC XX.  
007800 05 DIST-CD-H PIC XX.  
007900 05 RA-CD-H PIC XX.  
008000 05 PLU-CD-H PIC XX.  
008100 03 DE-CD-EXPLN-8827-DECE-H.  
008200 05 DIST-NAM-H PIC X(12).  
008300 05 RA-NAM-H PIC X(13).  
008400 05 PLU-NAM-H PIC X(15).  
008500 03 DE-CD-NAM-8823-DEC-H.  
008600 05 ST-NAM-H PIC X(10).  
008700 05 FILLER PIC X(14).  
008800 01 PAG-HDR-1.  
008900 03 FILLER PIC X(13) VALUE "REPORT DATE: ".  
009000 03 HEADER-DATE.  
009100 05 MO-HDR PIC 99.  
009200 05 FILLER PIC X VALUE "/".  
009300 05 DA-HDR PIC 99.  
009400 05 FILLER PIC X VALUE "/".  
009500 05 YR-HDR PIC 99.  
009600 03 FILLER PIC X(28) VALUE SPACES.  
009700 03 FILLER PIC X(23) VALUE "U.S.D.I. BUREAU OF LAND".  
009800 03 FILLER PIC X(11) VALUE " MANAGEMENT".  
009900 03 FILLER PIC X(22) VALUE SPACES.  
010000 03 FILLER PIC X(15) VALUE "PCN: P010 ".  
010100 03 FILLER PIC X(6) VALUE " PAGE ".  
010200 03 PAGE-NO PIC ZZ,ZZ9.  
010300 01 PAG-HDR-3.  
010400 03 FILLER PIC X(20) VALUE " STATE ".  
010500 03 STATE-NAME PIC X(10).  
010600 03 FILLER PIC X(24) VALUE SPACES.  
010700 03 FILLER PIC X(21) VALUE "ECOLOGICAL SITE INVEN".  
010800 03 FILLER PIC X(04) VALUE "TORY".  
010900 03 FILLER PIC X(53) VALUE SPACES.  
011000 01 PAG-HDR-4.  
011100 03 FILLER PIC X(20) VALUE " DISTRICT ".  
011200 03 DIST-NAME PIC X(12).  
011300 03 FILLER PIC X(100) VALUE SPACES.  
011400 01 PAG-HDR-5.  
011500 03 FILLER PIC X(20) VALUE " RESOURCE AREA ".  
011600 03 RA-NAME PIC X(13).  
011700 03 FILLER PIC X(16) VALUE SPACES.  
011800 03 FILLER PIC X(21) VALUE "ALLOTMENT LEVEL ACREA".  
011900 03 FILLER PIC X(14) VALUE "GE INFORMATION".  
012000 03 FILLER PIC X(48) VALUE SPACES.  
012100 01 PAG-HDR-6.  
012200 03 FILLER PIC X(20) VALUE " PLANNING UNIT ".  
012300 03 PU-NAME PIC X(15).  
012400 03 FILLER PIC X(97) VALUE SPACES.  
012500 01 COL-HDR-1.  
012600 03 FILLER PIC X(59) VALUE SPACES.  
012700 03 FILLER PIC X(10) VALUE "TYPE MAP ".  
012800 03 FILLER PIC X(63) VALUE SPACES.  
012900 01 COL-HDR-2.  
013000 03 FILLER PIC X(21) VALUE " ALLOTMENT PASTUR".  
013100 03 FILLER PIC X(21) VALUE "E SWA ACRES OWNE".  
013200 03 FILLER PIC X(21) VALUE "R JURIS ADMIN LAND".

013300	03	FILLER	PIC X(21) VALUE " SOURCE MERID TOWN".
013400	03	FILLER	PIC X(21) VALUE "SHIP RANGE SEC ALI".
013500	03	FILLER	PIC X(21) VALUE "QUOT PARTS ".
013600	03	FILLER	PIC X(6) VALUE SPACES.
013700	01	DATA-LINE-1.	
013800	03	FILLER	PIC X(6).
013900	03	ALLOT-NO-P	PIC 9999.
014000	03	FILLER	PIC X(7).
014100	03	PASTURE-P	PIC XX.
014200	03	FILLER	PIC X(4).
014300	03	SWA-P	PIC X(4).
014400	03	FILLER	PIC XX.
014500	03	ACRES-P	PIC Z(6)9.
014600	03	FILLER	PIC XX.
014700	03	OWNER-P	PIC X(4).
014800	03	FILLER	PIC XXX.
014900	03	JURIS-P	PIC X(4).
015000	03	FILLER	PIC XXX.
015100	03	ADMIN-P	PIC X(4).
015200	03	FILLER	PIC XXX.
015300	03	LAND-TYPE-P	PIC X(4).
015400	03	FILLER	PIC XXX.
015500	03	MAP-SPCE-P	PIC X(4).
015600	03	FILLER	PIC X(4).
015700	03	MERID-P	PIC Z9.
015800	03	FILLER	PIC X(5).
015900	03	TWNSHP-P	PIC X(5).
016000	03	FILLER	PIC X(4).
016100	03	RNGE-P	PIC X(5).
016200	03	FILLER	PIC XX.
016300	03	SECT-P	PIC XXX.
016400	03	FILLER	PIC XX.
016500	03	ALIQ-PTS-P	PIC X(19).
016600	03	FILLER	PIC X(11).
016700	01	DATA-LINE-2 REDEFINES DATA-LINE-1	PIC X(132).
016800	01	SWA-TOTAL-LINE.	
016900	03	FILLER	PIC X(6) VALUE SPACES.
017000	03	ALLT-P	PIC 9(4).
017100	03	FILLER	PIC X(7) VALUE SPACES.
017200	03	PASTR-P	PIC XX.
017300	03	FILLER	PIC XXX VALUE SPACES.
017400	03	TOTALL-P	PIC X(5) VALUE "TOTAL".
017500	03	FILLER	PIC XX VALUE SPACES.
017600	03	TOTL-ACRS	PIC Z(6)9.
017700	03	FILLER	PIC X(96) VALUE SPACES.
017800	01	PASTURE-TOTAL-LINE.	
017900	03	FILLER	PIC X(6) VALUE SPACES.
018000	03	ALLOT-P	PIC 9(4).
018100	03	FILLER	PIC X(5) VALUE SPACES.
018200	03	PAS-TOT-P	PIC X(5) VALUE "TOTAL".
018300	03	FILLER	PIC X(9) VALUE SPACES.
018400	03	ACRS-P	PIC Z(6)9.
018500	03	FILLER	PIC X(96) VALUE SPACES.
018600	01	ALLOTMENT-TOTAL-LINE.	
018700	03	FILLER	PIC X(6) VALUE SPACES.
018800	03	ALLOT-TOT-P	PIC X(5) VALUE "TOTAL".

018900	03	FILLER	PIC X(18)	VALUE SPACES.
019000	03	ACRES-P	PIC Z(6)9.	
019100	03	FILLER	PIC X(96)	VALUE SPACES.
019200	01	OWNER-SUMMARY-LINE-1.		
019300	03	FILLER	PIC X(17)	VALUE "OWNERSHIP SUMMARY".
019400	03	FILLER	PIC X(12)	VALUE SPACES.
019500	03	ACRE-SUM-P	PIC Z(6)9.	
019600	03	FILLER	PIC XX	VALUE SPACES.
019700	03	OWNR-SUM-P	PIC X(4).	
019800	03	FILLER	PIC XXX	VALUE SPACES.
019900	03	JURIS-SUM-P	PIC X(4).	
020000	03	FILLER	PIC XXX	VALUE SPACES.
020100	03	ADMIN-SUM-P	PIC X(4).	
020200	03	FILLER	PIC XXX	VALUE SPACES.
020300	03	LND-TYP-SUM-P	PIC X(4).	
020400	03	FILLER	PIC X(69)	VALUE SPACES.
020500	01	OWNER-SUMMARY-LINE-2.		
020600	03	FILLER	PIC X(14)	VALUE " FOR ALLOTMENT".
020700	03	FILLER	PIC X(15)	VALUE SPACES.
020800	03	ACRE-SUM-2	PIC Z(6)9.	
020900	03	FILLER	PIC XX	VALUE SPACES.
021000	03	OWNR-SUM-2	PIC X(4).	
021100	03	FILLER	PIC XXX	VALUE SPACES.
021200	03	JURIS-SUM-2	PIC X(4).	
021300	03	FILLER	PIC X	VALUE SPACES.
021400	03	ADMIN-SUM-2	PIC X(8).	
021500	03	FILLER	PIC X	VALUE SPACES.
021600	03	LND-TYP-SUM-2	PIC X(4).	
021700	03	FILLER	PIC X(69)	VALUE SPACES.
021800	01	OWNER-SUMMARY-LINE-3.		
021900	03	FILLER	PIC X(29)	VALUE SPACES.
022000	03	ACRE-SUM-3	PIC Z(6)9.	
022100	03	FILLER	PIC XX	VALUE SPACES.
022200	03	OWNR-SUM-3	PIC X(4).	
022300	03	FILLER	PIC XXX	VALUE SPACES.
022400	03	JURIS-SUM-3	PIC X(4).	
022500	03	FILLER	PIC X	VALUE SPACES.
022600	03	ADMIN-SUM-3	PIC X(8).	
022700	03	FILLER	PIC X	VALUE SPACES.
022800	03	LND-TYP-SUM-3	PIC X(4).	
022900	03	FILLER	PIC X(69)	VALUE SPACES.
023000	01	DATE-TODAY.		
023100	05	THIS-YEAR		PIC 99.
023200	05	THIS-MONTH		PIC 99.
023300	05	THIS-DAY		PIC 99.
023400	01	EOF-CONDITION		PIC 9.
023500	88	FILE-END	VALUE IS 1.	
023600	01	FIRST-DATA-CONDITION		PIC 9.
023700	88	FIRST-DATA-LINE	VALUE IS 1.	
023800	01	COMBO-TABLE.		
023900	05	TABLE-ELEMENT	OCCURS 200 TIMES.	
024000	10	COMBO-ELEMENT.		
024100	15	OWNER-ELEMENT	PIC X(4).	
024200	15	JURIS-ELEMENT	PIC X(4).	
024300	15	ADMIN-ELEMENT	PIC X(4).	
024400	15	LAND-TYPE-ELEMENT	PIC X(4).	
024500	10	TOTAL-ELEMENT	PIC 9(7).	



```

024600 01  OWNER-LINE2-SPACES.
024700     05  FILLER PIC X(14) VALUE " FOR ALLOTMENT".
024800     05  FILLER PIC X(118) VALUE SPACES.
024900 PROCEDURE DIVISION.
025000 10-HOUSEKEEPING.
025100     PERFORM 200-HOUSEKEEP.
025200 20-READ-PROCESS.
025300     PERFORM 210-READ-INPUT.
025400     IF FILE-END
025500         PERFORM 900-WRAPUP
025600         STOP RUN.
025700     IF PASTURE-NUM EQUAL "00"
025800         MOVE SPACES TO WS-PASTURE
025900     ELSE MOVE PASTURE-NUM TO WS-PASTURE.
026000     PERFORM 225-SKEY-CHANGE.
026100     PERFORM 230-ALLOT-CHANGE.
026200     PERFORM 240-PASTURE-CHANGE.
026300     PERFORM 250-SWA-CHANGE.
026400     IF NEW-ALLOT NOT EQUAL OLD-ALLOT
026500         OR NEW-SKEY NOT EQUAL OLD-SKEY
026600         PERFORM 500-SWA-TOTAL THRU 539-EXIT
026700         PERFORM 215-SKEY-TO-HDR THRU 220-TOP-PAGE
026800         GO TO 30-ADD-WRITE.
026900     IF NEW-PASTURE NOT EQUAL OLD-PASTURE
027000         PERFORM 500-SWA-TOTAL THRU 510-PASTURE-TOTAL
027100         GO TO 30-ADD-WRITE.
027200     IF NEW-SWA NOT EQUAL OLD-SWA
027300         PERFORM 500-SWA-TOTAL.
027400 30-ADD-WRITE.
027500     PERFORM 700-SWA-ADD THRU 720-MOVE-TO-OUTPUT.
027600     GO TO 20-READ-PROCESS.
027700 200-HOUSEKEEP.
027800     READY DIC-DE.
027900     INITIALIZE COMBO-TABLE.
028000     MOVE 1 TO FIRST-DATA-CONDITION.
028100     MOVE ZERO TO EOF-CONDITION.
028200     OPEN INPUT INPUT-FILE OUTPUT PRINT-OUT.
028300     ACCEPT DATE-TODAY FROM DATE.
028400     MOVE THIS-DAY TO DA-HDR.
028500     MOVE THIS-MONTH TO MO-HDR.
028600     MOVE THIS-YEAR TO YR-HDR.
028700     PERFORM 210-READ-INPUT.
028800     IF FILE-END
028900         DISPLAY "NO RECORD IN INPUT FILE"
029000         CLOSE INPUT-FILE PRINT-OUT
029100         STOP RUN.
029200     IF PASTURE-NUM EQUAL "00"
029300         MOVE SPACES TO WS-PASTURE
029400     ELSE MOVE PASTURE-NUM TO WS-PASTURE.
029500     PERFORM 215-SKEY-TO-HDR THRU 220-TOP-PAGE.
029600     PERFORM 700-SWA-ADD.
029700     MOVE COMBO TO COMBO-ELEMENT ( 1 ).
029800     MOVE ACR-DU TO TOTAL-ELEMENT ( 1 ).
029900     PERFORM 720-MOVE-TO-OUTPUT.
030000     MOVE SWA TO NEW-SWA.
030100     MOVE PASTURE-NUM TO NEW-PASTURE.
030200     MOVE ALLOT-NUM TO NEW-ALLOT.

```

```

030300     MOVE BLM-ADM-U TO NEW-SKEY.
030400 210-READ-INPUT.
030500     READ INPUT-FILE
030600         AT END MOVE 1 TO EOF-CONDITION
030700         SUBTRACT 1 FROM READ-COUNT.
030800     ADD 1 TO READ-COUNT.
030900 215-SKEY-TO-HDR.
031000     MOVE 0003 TO DE-NO-8801-DEC.
031100     MOVE BLM-ADM-U TO DE-CD-8822-DEC.
031200     FIND ANY CODE-DEC.
031300     IF DB-STATUS NOT = ZERO
031400         DISPLAY "BAD STATE CODE"  CALL "ABOR".
031500     GET CODE-DEC.
031600     MOVE DE-CD-NAM-8823-DEC TO DE-CD-NAM-8823-DEC-H.
031700     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
031800     IF DB-STATUS NOT = ZERO
031900         DISPLAY "BAD DIST, RA, PLU CODES"  CALL "ABOR".
032000     GET CODE-EXPL-DECE.
032100     MOVE DE-CD-EXPLN-8827-DECE TO DE-CD-EXPLN-8827-DECE-H.
032200     MOVE ST-NAM-H TO STATE-NAME.
032300     MOVE RA-NAM-H TO RA-NAME.
032400     MOVE DIST-NAM-H TO DIST-NAME.
032500     MOVE PLU-NAM-H TO PU-NAME.
032600 220-TOP-PAGE.
032700     ADD 1 TO PAGE-COUNT.
032800     MOVE PAGE-COUNT TO PAGE-NO.
032900     IF PAGE-COUNT = 1
033000         DISPLAY PAG-HDR-1
033100         DISPLAY PAG-HDR-3
033200         DISPLAY PAG-HDR-4
033300         DISPLAY PAG-HDR-5
033400         DISPLAY PAG-HDR-6
033500         DISPLAY COL-HDR-1
033600         DISPLAY COL-HDR-2
033700         DISPLAY SPACES.
033800     WRITE PRINT-LINE FROM PAG-HDR-1
033900         AFTER ADVANCING PAGE.
034000     WRITE PRINT-LINE FROM PAG-HDR-3
034100         AFTER ADVANCING 1 LINE.
034200     WRITE PRINT-LINE FROM PAG-HDR-4
034300         AFTER ADVANCING 1 LINE.
034400     WRITE PRINT-LINE FROM PAG-HDR-5
034500         AFTER ADVANCING 1 LINE.
034600     WRITE PRINT-LINE FROM PAG-HDR-6
034700         AFTER ADVANCING 1 LINE.
034800     WRITE PRINT-LINE FROM COL-HDR-1
034900         AFTER ADVANCING 1 LINE.
035000     WRITE PRINT-LINE FROM COL-HDR-2
035100         AFTER ADVANCING 1 LINE.
035200     WRITE PRINT-LINE FROM WORK-SPACES
035300         AFTER ADVANCING 1 LINE.
035400     MOVE 9 TO LINE-COUNT.
035500 225-SKEY-CHANGE.
035600     MOVE NEW-SKEY TO OLD-SKEY.
035700     MOVE BLM-ADM-U TO NEW-SKEY.
035800 230-ALLOT-CHANGE.
035900     MOVE NEW-ALLOT TO OLD-ALLOT.

```

```

036000     MOVE ALLOT-NUM TO NEW-ALLOT.
036100 240-PASTURE-CHANGE.
036200     MOVE NEW-PASTURE TO OLD-PASTURE.
036300     MOVE PASTURE-NUM TO NEW-PASTURE.
036400 250-SWA-CHANGE.
036500     MOVE NEW-SWA TO OLD-SWA.
036600     MOVE SWA TO NEW-SWA.
036700 260-WRITE-OUTPUT.
036800     IF LINE-COUNT GREATER 54
036900         PERFORM 220-TOP-PAGE.
037000     IF PAGE-COUNT = 1
037100         DISPLAY WORK-PRINT.
037200     WRITE PRINT-LINE FROM WORK-PRINT
037300         AFTER ADVANCING 1 LINE.
037400     ADD 1 TO LINE-COUNT.
037500 500-SWA-TOTAL.
037600     MOVE SPACES TO WORK-PRINT.
037700     PERFORM 260-WRITE-OUTPUT.
037800     MOVE SAVE-ALLOTMENT TO ALLT-P.
037900     MOVE SAVE-PASTURE TO PASTR-P.
038000     MOVE TOTAL-SWA-ACRES TO TOTL-ACRS.
038100     MOVE SWA-TOTAL-LINE TO WORK-PRINT.
038200     PERFORM 260-WRITE-OUTPUT.
038300     ADD TOTAL-SWA-ACRES TO TOTAL-PASTURE-ACRES.
038400     MOVE ZEROS TO TOTAL-SWA-ACRES.
038500     MOVE 1 TO FIRST-DATA-CONDITION.
038600 510-PASTURE-TOTAL.
038700     MOVE SPACES TO WORK-PRINT.
038800     PERFORM 260-WRITE-OUTPUT.
038900     MOVE SAVE-ALLOTMENT TO ALLOT-P.
039000     MOVE TOTAL-PASTURE-ACRES TO ACRS-P.
039100     MOVE PASTURE-TOTAL-LINE TO WORK-PRINT.
039200     PERFORM 260-WRITE-OUTPUT.
039300     ADD TOTAL-PASTURE-ACRES TO TOTAL-ALLOT-ACRES.
039400     MOVE ZEROS TO TOTAL-PASTURE-ACRES.
039500 520-ALLOT-TOTAL.
039600     MOVE SPACES TO WORK-PRINT.
039700     PERFORM 260-WRITE-OUTPUT.
039800     MOVE TOTAL-ALLOT-ACRES TO ACRES-P OF ALLOTMENT-TOTAL-LINE.
039900     MOVE ALLOTMENT-TOTAL-LINE TO WORK-PRINT.
040000     PERFORM 260-WRITE-OUTPUT.
040100     MOVE ZEROS TO TOTAL-ALLOT-ACRES.
040200     MOVE SPACES TO WORK-PRINT.
040300     PERFORM 260-WRITE-OUTPUT.
040400 530-OWN-SUM.
040500     ADD 1 TO SUB-SCRIPT.
040600     IF SUB-SCRIPT > SUB-CHK
040700         MOVE SUB-SCRIPT TO SUB-CHK.
040800     IF COMBO-ELEMENT ( SUB-SCRIPT ) EQUAL SPACES
040900         OR SUB-SCRIPT GREATER 200
041000         GO TO 535-FINISH.
041100     IF SUB-SCRIPT EQUAL 1
041200         MOVE TOTAL-ELEMENT ( 1 ) TO ACRE-SUM-P
041300         MOVE OWNER-ELEMENT ( 1 ) TO OWNR-SUM-P
041400         MOVE JURIS-ELEMENT ( 1 ) TO JURIS-SUM-P
041500         MOVE ADMIN-ELEMENT ( 1 ) TO ADMIN-SUM-P
041600         MOVE LAND-TYPE-ELEMENT ( 1 ) TO LND-TYP-SUM-P

```

```

041700      MOVE OWNER-SUMMARY-LINE-1 TO WORK-PRINT
041800      PERFORM 260-WRITE-OUTPUT
041900      GO TO 530-OWN-SUM.
042000      IF SUB-SCRIPT EQUAL 2
042100          MOVE TOTAL-ELEMENT ( 2 ) TO ACRE-SUM-2
042200          MOVE OWNER-ELEMENT ( 2 ) TO OWNR-SUM-2
042300          MOVE JURIS-ELEMENT ( 2 ) TO JURIS-SUM-2
042400          MOVE ADMIN-ELEMENT ( 2 ) TO ADMIN-SUM-2
042500          MOVE LAND-TYPE-ELEMENT ( 2 ) TO LND-TYP-SUM-2
042600          MOVE OWNER-SUMMARY-LINE-2 TO WORK-PRINT
042700          PERFORM 260-WRITE-OUTPUT
042800          GO TO 530-OWN-SUM.
042900      MOVE TOTAL-ELEMENT ( SUB-SCRIPT ) TO ACRE-SUM-3.
043000      MOVE OWNER-ELEMENT ( SUB-SCRIPT ) TO OWNR-SUM-3.
043100      MOVE JURIS-ELEMENT ( SUB-SCRIPT ) TO JURIS-SUM-3.
043200      MOVE ADMIN-ELEMENT ( SUB-SCRIPT ) TO ADMIN-SUM-3.
043300      MOVE LAND-TYPE-ELEMENT ( SUB-SCRIPT ) TO LND-TYP-SUM-3.
043400      MOVE OWNER-SUMMARY-LINE-3 TO WORK-PRINT
043500      PERFORM 260-WRITE-OUTPUT
043600      GO TO 530-OWN-SUM.
043700 535-FINISH.
043800      IF SUB-SCRIPT EQUAL 2
043900          MOVE OWNER-LINE2-SPACES TO WORK-PRINT
044000          PERFORM 260-WRITE-OUTPUT.
044100 536-RE-INITIALIZE.
044200      MOVE ZEROS TO SUB-SCRIPT.
044300      INITIALIZE COMBO-TABLE.
044400 539-EXIT.
044500 700-SWA-ADD.
044600      ADD ACR-DU TO TOTAL-SWA-ACRES.
044700 710-COMBO-ADD.
044800      ADD 1 TO FIND-SCRIPT.
044900      IF FIND-SCRIPT GREATER 200
045000          DISPLAY "TABLE TOO SMALL"
045100          DISPLAY "RECOMPILE AND RERUN"
045200          CALL "TBLE-TOO-SMALL".
045300      IF COMBO-ELEMENT ( FIND-SCRIPT ) EQUAL SPACES
045400          MOVE COMBO TO COMBO-ELEMENT ( FIND-SCRIPT )
045500          MOVE ACR-DU TO TOTAL-ELEMENT ( FIND-SCRIPT )
045600          GO TO 712-SET-SCRIPT.
045700      IF COMBO EQUAL COMBO-ELEMENT ( FIND-SCRIPT )
045800          ADD ACR-DU TO TOTAL-ELEMENT ( FIND-SCRIPT )
045900          GO TO 712-SET-SCRIPT.
046000      GO TO 710-COMBO-ADD.
046100 712-SET-SCRIPT.
046200      MOVE ZEROS TO FIND-SCRIPT.
046300 714-EXIT.
046400 720-MOVE-TO-OUTPUT.
046500      IF FIRST-DATA-LINE
046600          MOVE SPACES TO DATA-LINE-2
046700          MOVE ALLOT-NUM TO ALLOT-NO-P
046800          MOVE SWA TO SWA-P
046900          MOVE ZERO TO FIRST-DATA-CONDITION
047000          MOVE SPACES TO WORK-PRINT
047100          PERFORM 260-WRITE-OUTPUT
047200          MOVE ALLOT-NUM TO SAVE-ALLOTMENT
047300          MOVE WS-PASTURE TO SAVE-PASTURE

```

```

047400         MOVE WS-PASTURE TO PASTURE-P
047500     ELSE MOVE SPACES TO DATA-LINE-2.
047600     IF LINE-COUNT GREATER 54
047700         MOVE ALLOT-NUM TO ALLOT-NO-P
047800         MOVE WS-PASTURE TO PASTURE-P
047900         MOVE SWA TO SWA-P.
048000     MOVE ACR-DU TO ACRES-P OF DATA-LINE-1.
048100     MOVE OWN-TYP TO OWNER-P.
048200     MOVE JURIS TO JURIS-P.
048300     MOVE IN-ADMIN TO ADMIN-P.
048400     MOVE LAND-TYP TO LAND-TYPE-P.
048500     MOVE MAP-SRC TO MAP-SPCE-P.
048600     MOVE IN-MTR-MER-CD TO MERID-P.
048700     MOVE MTR-TWSHP TO TWNSHP-P.
048800     MOVE IN-MTR-RNG TO RNGE-P.
048900     MOVE IN-SEC-SECT TO SECT-P.
049000     MOVE DATA-LINE-1 TO WORK-PRINT.
049100     ADD 1 TO DATA-PRINT-COUNT.
049200     PERFORM 260-WRITE-OUTPUT.
049300     900-WRAPUP.
049400     DISPLAY "INPUT RCDS= " READ-COUNT.
049500     DISPLAY "PAGES PRINTED= " PAGE-NO.
049600     DISPLAY "THIS IS A CHECK OF THE LARGEST TABLE SIZE"
049700     DISPLAY "      REQUIRED FOR THIS RUN."      "SUB= " SUB-CHK.
049800     PERFORM 500-SWA-TOTAL THRU 535-FINISH.
049900     FINISH DIC-DE.
050000     CLOSE INPUT-FILE PRINT-OUT.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES512Z.
000300*         ACRES BY STRATUM COMPUTATION.
000400*
000500 AUTHOR. LEN SHEA.
000600 DATE-WRITTEN. 7 FEB 83.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400     SELECT VA1Z-IN     ASSIGN TO I1
001500     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600     SELECT VB1Z-IN     ASSIGN TO I2
001700     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800     SELECT VAFILE-OUT ASSIGN TO D1
001900     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000 DATA DIVISION.
002100 FILE SECTION.
002200 FD  VA1Z-IN
002300     CODE-SET IS GBCD
002400     LABEL RECORDS ARE STANDARD.
002500 01  VA-IN-REC                PIC X(90).
002600 FD  VB1Z-IN
002700     CODE-SET IS GBCD
002800     LABEL RECORDS ARE STANDARD.
002900 01  VB-IN-REC                PIC X(96).

```

```

003000 FD  VAFILE-OUT
003100     CODE-SET IS GBCD
003200     LABEL RECORDS ARE STANDARD.
003300 01  VAOUT-REC                               PIC X(132).
003400 WORKING-STORAGE SECTION.
003500 77  VA-REC-IN-CNT                             PIC 9999 VALUE ZEROES.
003600 77  VB-REC-IN-CNT                             PIC 9999 VALUE ZEROES.
003700 77  VA-REC-OUT-CNT                           PIC 9999 VALUE ZEROES.
003800 77  VA-SUB                                    PIC 999  VALUE ZEROES.
003900 77  VA-IN-EOF                                 PIC XXX VALUE " NO".
004000 77  VB-IN-EOF                                 PIC XXX VALUE " NO".
004100 77  VA-TBL-COUNT                              PIC 999  VALUE ZEROES.
004200 77  VAVB-SWA-MTCH                            PIC XXX VALUE " NO".
004300 77  VB-MATCH                                  PIC XXX VALUE " NO".
004400 01  VA-ACRES-COMP                            PIC 9(5) VALUE ZEROES.
004500 01  VA-REC-IN.
004600     05  FILLER                                PIC X(48).
004700     05  VA-SWA                                PIC XXXX.
004800     05  FILLER                                PIC X(16).
004900     05  VA-ACRES                              PIC 9(5).
005000     05  FILLER                                PIC X(17).
005100 01  VB-REC-IN.
005200     05  FILLER                                PIC X(28).
005300     05  VB-SWA                                PIC XXXX.
005400     05  FILLER                                PIC XX.
005500     05  VB-SWA-PCT                            PIC 9V99.
005600     05  VB-SWA-PCT-R REDEFINES VB-SWA-PCT PIC X(03).
005700     05  VB-COPY-DATA1                          PIC X(15).
005800     05  FILLER                                  PIC X(6).
005900     05  VB-COPY-DATA2                          PIC X(19).
006000     05  FILLER                                  PIC X(19).
006100 01  VA-REC-OUT.
006200     05  VA-REC-DATA                            PIC X(90).
006300     05  ACRES-STRAT                            PIC 9(6) VALUE ZEROES.
006400     05  VB-RECV-DATA1                          PIC X(15).
006500     05  VB-RECV-DATA2.
006600         07  VAB-SWA-PCT PIC X(03).
006700         07  FILLER PIC X(16).
006800     05  FILLER                                  PIC X(02).
006900 01  VA-REC-TABLE.
007000     05  VA-REC-HOLD OCCURS 200.
007100         10  FILLER                                PIC X(48).
007200         10  VA-SWA-HOLD                          PIC XXXX.
007300         10  FILLER                                PIC X(16).
007400         10  VA-ACRES-HOLD                       PIC 9(5).
007500         10  FILLER                                PIC X(17).
007600 PROCEDURE DIVISION.
007700 0010-MAINLINE.
007800     OPEN INPUT  VA1Z-IN, VB1Z-IN,
007900             OUTPUT VAFILE-OUT.
008000     PERFORM 0030-VA-READ.
008100     IF VA-IN-EOF = "YES"
008200         DISPLAY "VA FILE EMPTY"
008300         PERFORM 9999-ABORT.
008400     PERFORM 0040-VB-READ.
008500     IF VB-IN-EOF = "YES"
008600         DISPLAY "VB FILE EMPTY"

```

```

008700         PERFORM 9999-ABORT.
008800     PERFORM 0020-PROCESS THROUGH 0020-EXIT
008900         UNTIL VB-IN-EOF = "YES"
009000         AND VA-IN-EOF = "YES".
009100     PERFORM STOP-RUN-NOW.
009200 0020-PROCESS.
009300     IF VA-SWA < VB-SWA
009400         PERFORM 0060-VA-NOMATCH.
009500     IF VA-SWA > VB-SWA
009600         PERFORM 9998-ABORT.
009700     IF VA-SWA = VB-SWA
009800         MOVE "YES" TO VAVB-SWA-MTCH
009900         PERFORM 0070-VA-TABLE-BUILD THRU 0070-EXIT.
010000     PERFORM 0080-CALCULATE THROUGH 0080-EXIT.
010100 0020-EXIT.
010200     EXIT.
010300 0030-VA-READ.
010400     READ VA1Z-IN INTO VA-REC-IN
010500     AT END MOVE "YES" TO VA-IN-EOF.
010600     IF VA-IN-EOF = " NO"
010700         ADD 1 TO VA-REC-IN-CNT.
010800 0040-VB-READ.
010900     READ VB1Z-IN INTO VB-REC-IN
011000     AT END MOVE "YES" TO VB-IN-EOF.
011100     IF VB-IN-EOF = " NO"
011200         ADD 1 TO VB-REC-IN-CNT.
011300 0050-WRITE-OUT-REC.
011400     WRITE VAOUT-REC FROM VA-REC-OUT.
011500     ADD 1 TO VA-REC-OUT-CNT.
011600 0060-VA-NOMATCH.
011700     DISPLAY "NO VB RECORD TO MATCH THIS VA RECORD: ".
011800     DISPLAY VA-REC-IN.
011900     PERFORM STOP-RUN-NOW.
012000 0060-EXIT.
012100     EXIT.
012200 0070-VA-TABLE-BUILD.
012300     MOVE 1 TO VA-SUB.
012400     MOVE SPACES TO VA-REC-TABLE.
012500 0070-VA-DATA-MOVE.
012600     IF VA-SUB > 200 DISPLAY "INCREASE SIZE OF VA-REC-HOLD"
012700         CALL "ABOR".
012800     MOVE VA-REC-IN TO VA-REC-HOLD (VA-SUB).
012900     PERFORM 0030-VA-READ.
013000     IF VA-IN-EOF = "YES"
013100         MOVE " NO" TO VAVB-SWA-MTCH
013200         GO TO 0070-EXIT.
013300     IF VA-SWA = VB-SWA
013400         ADD 1 TO VA-SUB
013500         GO TO 0070-VA-DATA-MOVE
013600     ELSE
013700         MOVE " NO" TO VAVB-SWA-MTCH.
013800 0070-EXIT.
013900     EXIT.
014000 0080-CALCULATE.
014100     MOVE VA-SUB TO VA-TBL-COUNT.
014200     MOVE 1 TO VA-SUB.
014300 0080-MULTIPLY.

```

```

014400     MOVE VA-REC-HOLD (VA-SUB) TO VA-REC-OUT.
014500     MOVE VB-COPY-DATA1 TO VB-RECV-DATA1.
014600     MOVE VB-COPY-DATA2 TO VB-RECV-DATA2.
014700     MOVE VB-SWA-PCT-R TO VAB-SWA-PCT.
014800     COMPUTE ACRES-STRAT =
014900         (VA-ACRES-HOLD (VA-SUB) * VB-SWA-PCT * 10).
015000     PERFORM 0050-WRITE-OUT-REC.
015100     ADD 1 TO VA-SUB.
015200     IF VA-SUB > VA-TBL-COUNT
015300         PERFORM 0040-VB-READ
015400         MOVE 1 TO VA-SUB.
015500     IF VB-IN-EOF = "YES"
015600         GO TO 0080-EXIT.
015700     IF VA-SWA-HOLD (VA-SUB) = VB-SWA
015800         GO TO 0080-MULTIPLY.
015900 0080-EXIT.
016000     EXIT.
016100 9998-ABORT.
016200     DISPLAY "NO VA RECORD TO MATCH THIS VB RECORD: ".
016300     DISPLAY VB-REC-IN.
016400     PERFORM STOP-RUN-NOW.
016500 9999-ABORT.
016600     DISPLAY "VA OR VB FILE IS EMPTY, PROGRAM ABORTED."
016700     PERFORM STOP-RUN-NOW.
016800 STOP-RUN-NOW.
016900     DISPLAY "VA INPUT RECORDS: " VA-REC-IN-CNT.
017000     DISPLAY "VB INPUT RECORDS: " VB-REC-IN-CNT.
017100     DISPLAY "VA OUTPUT RECORDS: " VA-REC-OUT-CNT.
017200     CLOSE VALZ-IN, VB1Z-IN, VAFILE-OUT.
017300     STOP RUN.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES515P.
000300*     ALLOTMENT RANGE CONDITION INFORMATION REPORT, P01A.
000400*
000500 AUTHOR. ROSE DAVIS, RON BAKER.
000600 DATE-WRITTEN. 04/14/80.
000700*DATE-REVISED. MAR 1982.
000800 DATE-COMPILED.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.
001200 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001300 INPUT-OUTPUT SECTION.
001400 FILE-CONTROL.
001500 SELECT ACRE-STRATUM-FILE ASSIGN TO D1
001600     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001700 SELECT PRINT-FILE ASSIGN TO P1-PRINTER
001800     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001900 SELECT SORT-FILE ASSIGN TO S1.
002000 DATA DIVISION.
002100 SUB-SCHEMA SECTION.
002200 DB CODVAL2 WITHIN BLMDIC.
002300 FILE SECTION.
002400 FD ACRE-STRATUM-FILE
002500     CODE-SET IS GBCD
002600     LABEL RECORDS ARE STANDARD

```



002700 DATA RECORD IS ACRE-STRATUM-REC.  
002800 01 ACRE-STRATUM-REC.  
002900 03 REC-D1.  
003000 05 REC-TYP-D1 PIC X(02).  
003100 05 FMT-NUM-D1 PIC X.  
003200 05 FMT-CD-D1 PIC X.  
003300 03 ADM-UNIT-D1.  
003400 05 ST-D1 PIC X(02).  
003500 05 DIS-D1 PIC X(02).  
003600 05 RA-D1 PIC X(02).  
003700 05 PLU-D1 PIC X(02).  
003800 03 ALLOT-D1.  
003900 05 ALLOT-NUM-D1 PIC X(04).  
004000 05 PAST-NUM-D1 PIC X(02).  
004100 03 DATE-D1 PIC X(06).  
004200 03 ACT-D1 PIC X(01).  
004300 03 MAP-SRC-D1 PIC X(04).  
004400 03 MTR-MER-CD-D1 PIC X(02).  
004500 03 LINE-D1 PIC X(04).  
004600 03 MTR-TWN-D1 PIC X(05).  
004700 03 MTR-RNG-D1 PIC X(05).  
004800 03 SEC-D1 PIC X(03).  
004900 03 SWA-D1 PIC X(04).  
005000 03 ALIQ-PART-D1 PIC X(16).  
005100 03 ACRES-D1 PIC 9(05).  
005200 03 OWNER-D1 PIC X(04).  
005300 03 JURIS-D1 PIC X(04).  
005400 03 MGT-ADM-D1 PIC X(04).  
005500 03 LAND-TYP-D1 PIC X(04).  
005600 03 FILLER PIC X(01).  
005700 03 ACRES-STRATUM-D1 PIC 9(06).  
005800 03 RNG-SITE-D1 PIC X(11).  
005900 03 STRATUM-D1 PIC XXXX.  
006000 03 GRP-D1.  
006100 05 VEG-SUB-TYP-D1 PIC X(04).  
006200 05 COND-CLS-D1 PIC X.  
006300 05 PCT-SLP-D1 PIC XXX.  
006400 05 ASPT-D1 PIC XX.  
006500 05 L-FORM-D1 PIC XXX.  
006600 05 SOIL-PHASE-D1 PIC X(6).  
006700 03 FILLER PIC X(2).  
006800 FD PRINT-FILE  
006900 CODE-SET IS GBCD  
007000 LABEL RECORDS ARE STANDARD  
007100 DATA RECORD IS PRINT-REC.  
007200 01 PRINT-REC PIC X(132).  
007300 SD SORT-FILE  
007400 DATA RECORDS ARE SORT-REC.  
007500 01 SORT-REC.  
007600 05 FILLER PIC X(22).  
007700 05 SORT-KEY PIC X(7).  
007800 WORKING-STORAGE SECTION.  
007900 77 FLAGG1 PIC 9 VALUE 0.  
008000 77 PAGECT PIC 9(5) VALUE ZEROS.  
008100 77 LINECT PIC 99 VALUE ZEROS.  
008200 77 10OT PIC 9(6)V9.  
008300 77 11OT PIC 9(6)V9.

008400 77 12OT PIC 9(6)V9.  
008500 77 13OT PIC 9(7)V9.  
008600 77 14OT PIC 9(7)V9.  
008700 77 15OT PIC 9(7)V9.  
008800 77 16OT PIC 9(7)V9.  
008900 77 17OT PIC 9(7)V9.  
009000 77 18OT PIC 9(7)V9.  
009100 77 20OT PIC 9(7)V9.  
009200 77 21OT PIC 9(7)V9.  
009300 77 22OT PIC 9(7)V9.  
009400 77 24OT PIC 9(7)V9.  
009500 77 25OT PIC 9(7)V9.  
009600 77 26OT PIC 9(7)V9.  
009700 77 28OT PIC 9(7)V9.  
009800 77 29OT PIC 9(7)V9.  
009900 77 30OT PIC 9(7)V9.  
010000 77 32OT PIC 9(7)V9.  
010100 77 33OT PIC 9(7)V9.  
010200 77 34OT PIC 9(7)V9.  
010300 77 32OTX PIC 9(7)V9.  
010400 77 33OTX PIC 9(7)V9.  
010500 77 34OTX PIC 9(7)V9.  
010600 77 32OTXX PIC 9(7)V9.  
010700 77 33OTXX PIC 9(7)V9.  
010800 77 34OTXX PIC 9(7)V9.  
010900 77 CNT-IN PIC 9(8) VALUE ZERO.  
011000 77 DET-CNT PIC 9(8) VALUE ZERO.  
011100 77 TEST-CNT PIC 9(8) VALUE 99999999.  
011200 01 HOLD-AREA.  
011300 03 ADST-DIST-RA-PLU-CDS-H.  
011400 05 ADSTDSRA-CD-H.  
011500 07 ADST-CD-H PIC XX.  
011600 07 DIST-CD-H PIC XX.  
011700 07 RA-CD-H PIC XX.  
011800 05 PLU-CD-H PIC XX.  
011900 03 CE-CD-EXPL-LIN-H.  
012000 05 DIST-NAM-H PIC X(12).  
012100 05 RA-NAM-H PIC X(13).  
012200 05 PLU-NAM-H PIC X(15).  
012300 03 CT-FUNC-NAM-H.  
012400 05 ST-NAM-H PIC X(10).  
012500 05 FILLER PIC X(14).  
012600 01 ALOT-H PIC X(4).  
012700 01 31H PIC X(6).  
012800 01 RS-S-VST-CC-H PIC X(20).  
012900 01 ACRE-STRATUM-REC-HLD.  
013000 05 REC-TYPE-W PIC X(4).  
013100 05 SDRP-W.  
013200 07 SDR-W.  
013300 09 SD-W.  
013400 11 ST-W PIC XX.  
013500 11 DS-W PIC XX.  
013600 09 RA-W PIC XX.  
013700 07 PU-W PIC XX.  
013800 05 ALLOT-W.  
013900 07 ALOT-W PIC X(04).  
014000 07 PAST-NUM-W PIC X(02).

014100 05 FILLER PIC X(30).  
014200 05 SWA-W PIC X(04).  
014300 05 FILLER PIC X(16).  
014400 05 ACRES-SWA-W PIC 9(05).  
014500 05 OWNER-W PIC X(04).  
014600 05 JURIS-W PIC X(04).  
014700 05 MGT-ADM-W PIC X(04).  
014800 05 LAND-TYP-W PIC X(04).  
014900 05 FILLER PIC X.  
015000 05 ACRES-W PIC X(06).  
015100 05 ACRES-W-RD REDEFINES ACRES-W PIC 9(05)V9.  
015200 05 RS-S-VST-CC.  
015300 10 RNG-SITE-W.  
015400 15 RNG-SITE-W1 PIC X(5).  
015500 15 RNG-SITE-W2 PIC X(2).  
015600 15 RNG-SITE-W3 PIC X(4).  
015700 10 STRAT-W PIC X(4).  
015800 10 VEG-SUB-TYP-W PIC X(4).  
015900 10 COND-CLASS-W PIC X.  
016000 05 PCT-SLP-W PIC XXX.  
016100 05 ASPT-W PIC XX.  
016200 05 L-FORM-W PIC XXX.  
016300 05 SOIL-PHASE-W PIC X(6).  
016400 05 FILLER PIC X(2).  
016500 01 PW1 PIC 9V9999.  
016600 01 PW1X REDEFINES PW1 PIC 999V99.  
016700 01 DATE-IN.  
016800 05 YY PIC XX.  
016900 05 MM PIC XX.  
017000 05 DD PIC XX.  
017100 01 COND-CLASSW.  
017200 05 COND-CLASS-CCW PIC X.  
017300 05 FILLER PIC X(5) VALUE SPACES.  
017400 05 40OT PIC 9(7)V9.  
017500 05 41OT PIC 9(7)V9.  
017600 05 KEY-2.  
017700 10 KEY-CCW PIC X VALUE "2".  
017800 10 COND-CLASS-KEY-CCW PIC X.  
017900 10 FILLER PIC X(5) VALUE SPACES.  
018000 01 SOIL-SERIESW.  
018100 05 SOIL-SER-SSW PIC X(6).  
018200 05 FILLER PIC X VALUE ZERO.  
018300 05 44OT PIC 9(6)V9.  
018400 05 FILLER PIC X VALUE ZERO.  
018500 05 45OT PIC 9(6)V9.  
018600 05 KEY-3.  
018700 10 KEY-SS PIC X VALUE "3".  
018800 10 SOIL-SER-KEY-SSW PIC X(6).  
018900 01 STRATUMW.  
019000 05 STRAT-SW PIC X(4).  
019100 05 FILLER PIC XX VALUE SPACE.  
019200 05 36OT PIC 9(7)V9.  
019300 05 37OT PIC 9(7)V9.  
019400 05 KEY-1.  
019500 10 KEY-STR PIC X VALUE "1".  
019600 10 STRAT-KEY-SW PIC X(4).  
019700 10 FILLER PIC XX.

```

019800 01 HD1.
019900 03 FILLER PIC X(13) VALUE "REPORT DATE: ".
020000 03 HD-MM PIC XX.
020100 03 FILLER PIC X VALUE "/".
020200 03 HD-DD PIC XX.
020300 03 FILLER PIC X VALUE "/".
020400 03 HD-YY PIC XX.
020500 03 FILLER PIC X(28) VALUE SPACES.
020600 03 FILLER PIC X(23) VALUE "U.S.D.I. BUREAU OF LAND".
020700 03 FILLER PIC X(11) VALUE " MANAGEMENT".
020800 03 FILLER PIC X(22) VALUE SPACES.
020900 03 FILLER PIC X(15) VALUE "PCN: P01A ".
021000 03 FILLER PIC X(6) VALUE " PAGE ".
021100 03 HDR-PG PIC ZZ,ZZ9.
021200 01 HD3.
021300 05 FILLER PIC X(19) VALUE
021400- " STATE ".
021500 05 HD4-ST PIC X(35) VALUE
021600- "WYOMING ".
021700 05 FILLER PIC X(25) VALUE
021800- "ECOLOGICAL SITE INVENTORY".
021900 05 FILLER PIC X(38) VALUE SPACES.
022000 05 FILLER PIC X(06)
022100 VALUE SPACE.
022200 05 FILLER PIC X(09)
022300 VALUE SPACE.
022400 01 HD4.
022500 05 FILLER PIC X(19) VALUE
022600- " DISTRICT ".
022700 05 HD4-DS PIC X(20) VALUE "ROCK SPRINGS".
022800 05 FILLER PIC X(93) VALUE SPACES.
022900 01 HD5.
023000 05 FILLER PIC X(19) VALUE " RESOURCE AREA ".
023100 05 HD5-RA PIC X(20) VALUE "SALT WELLS ".
023200 05 FILLER PIC X(8) VALUE SPACES.
023300 05 HD5-NAME PIC X(37) VALUE
023400 "ALLOTMENT RANGE CONDITION INFORMATION".
023500 05 FILLER PIC X(48) VALUE SPACES.
023600 01 HD6.
023700 05 FILLER PIC X(14) VALUE " ALLOTMENT ".
023800 05 HD6-ALOT PIC X(4).
023900 05 FILLER PIC X(114) VALUE SPACES.
024000 01 HD7.
024100 05 FILLER PIC X(94) VALUE SPACES.
024200 05 FILLER PIC X(29) VALUE
024300 "-----STRATUM ACREAGE-----".
024400 05 FILLER PIC X(9) VALUE SPACES.
024500 01 HD8.
024600 05 FILLER PIC X(43) VALUE SPACES.
024700 05 FILLER PIC X(42) VALUE
024800 "VEGETAL CONDITION PHASE OF".
024900 05 FILLER PIC X(47) VALUE SPACES.
025000 01 HD9.
025100 05 FILLER PIC X(16) VALUE " STRATUM".
025200 05 FILLER PIC X(18) VALUE " RANGE SITE".
025300 05 FILLER PIC X(16) VALUE " SUB-TYPE".
025400 05 FILLER PIC X(15) VALUE " CLASS".

```

```

025500      05  FILLER  PIC X(21) VALUE "          SOIL SERIES".
025600      05  FILLER  PIC X(11) VALUE "          BLM".
025700      05  FILLER  PIC X(14) VALUE "          OTHER".
025800      05  FILLER  PIC X(21) VALUE "          TOTAL          ".
025900 01  HD10.
026000      05  FILLER  PIC X(82) VALUE SPACES.
026100      05  FILLER  PIC X(33) VALUE
026200-      "ALLOTMENT RANGE CONDITION SUMMARY".
026300      05  FILLER  PIC X(17) VALUE SPACES.
026400 01  DATA1.
026500      05  FILLER  PIC X(10) VALUE SPACES.
026600      05  STRAT-P  PIC X(4).
026700      05  FILLER  PIC X(10) VALUE SPACES.
026800      05  RNG-SITE-P  PIC X(11).
026900      05  FILLER  PIC X(9) VALUE SPACES.
027000      05  VEG-SUB-TYP-P  PIC X(4).
027100      05  FILLER  PIC X(14) VALUE SPACES.
027200      05  COND-CLASS-P  PIC X.
027300      05  FILLER  PIC X(14) VALUE SPACES.
027400      05  SOIL-SER-P  PIC X(6).
027500      05  FILLER  PIC X(5) VALUE SPACES.
027600      05  10PT  PIC ZZZ,ZZZ.9.
027700      05  FILLER  PIC X(5) VALUE SPACES.
027800      05  11PT  PIC ZZZ,ZZZ.9.
027900      05  FILLER  PIC X(5) VALUE SPACES.
028000      05  12PT  PIC ZZZ,ZZZ.9.
028100      05  FILLER  PIC X(7) VALUE SPACES.
028200 01  DATA2.
028300      05  FILLER  PIC X(60) VALUE SPACES.
028400      05  FILLER  PIC X(26) VALUE
028500      "STRATUM SUB-TOTAL          ".
028600      05  13PT  PIC Z,ZZZ,ZZZ.9.
028700      05  FILLER  PIC X(3) VALUE SPACES.
028800      05  14PT  PIC Z,ZZZ,ZZZ.9.
028900      05  FILLER  PIC X(3) VALUE SPACES.
029000      05  15PT  PIC Z,ZZZ,ZZZ.9.
029100      05  FILLER  PIC X(7) VALUE SPACES.
029200 01  DATA3.
029300      05  FILLER  PIC X(60) VALUE SPACES.
029400      05  FILLER  PIC X(26) VALUE
029500      "ALLOTMENT ACREAGE TOTAL          ".
029600      05  16PT  PIC Z,ZZZ,ZZZ.9.
029700      05  FILLER  PIC X(3) VALUE SPACES.
029800      05  17PT  PIC Z,ZZZ,ZZZ.9.
029900      05  FILLER  PIC X(3) VALUE SPACES.
030000      05  18PT  PIC Z,ZZZ,ZZZ.9.
030100      05  FILLER  PIC X(7) VALUE SPACES.
030200 01  DATA4.
030300      05  FILLER  PIC X(70) VALUE SPACES.
030400      05  19-31PT  PIC X(10).
030500      05  FILLER  PIC X(5) VALUE SPACES.
030600      05  20-32PT  PIC Z,ZZZ,ZZZ.9.
030700      05  FILLER  PIC X(3) VALUE SPACES.
030800      05  21-33PT  PIC Z,ZZZ,ZZZ.9.
030900      05  FILLER  PIC X(3) VALUE SPACES.
031000      05  22-34PT  PIC Z,ZZZ,ZZZ.9.
031100      05  FILLER  PIC X VALUE SPACE.

```

```

031200      05 PERCENT PIC ZZZ.99.
031300      05 FILLER PIC X VALUE "%".
031400*****WORKING AREA FOR OUTPUT*****
031500 01  KEYR1H PIC 9 VALUE ZERO.
031600 01  36RH PIC 9(8)V9 VALUE ZEROS.
031700 01  37RH PIC 9(8)V9 VALUE ZEROS.
031800 01  38RH PIC 9(8)V9.
031900 01  36RHT PIC 9(9)V9 VALUE ZEROS.
032000 01  37RHT PIC 9(9)V9 VALUE ZEROS.
032100 01  38RHT PIC 9(9)V9.
032200 01  35-43RH PIC X(6).
032300 01  HOLD-SORT-REC.
032400      05 35-43R.
032500      10 39R PIC X.
032600      10 FILLER PIC X(5).
032700      05 36R PIC 9(7)V9.
032800      05 37R PIC 9(7)V9.
032900      05 KEYR.
033000      10 KEYR1 PIC 9.
033100      10 KEYR2 PIC X(6).
033200 01  35R.
033300      05 35R1 PIC X(3) VALUE SPACES.
033400      05 35R2 PIC X(6).
033500      05 35R3 PIC X(1) VALUE SPACES.
033600 01  43R.
033700      05 43R1 PIC X(2) VALUE SPACES.
033800      05 43R2 PIC X(6).
033900      05 43R3 PIC X(2) VALUE SPACES.
034000 01  HD1R.
034100      05 FILLER PIC X(54) VALUE SPACES.
034200      05 HD1-NAME PIC X(23) VALUE " STRATUM SUMMARY ".
034300      05 FILLER PIC X(55) VALUE SPACES.
034400 01  HD2R.
034500      05 FILLER PIC X(77) VALUE SPACES.
034600      05 FILLER PIC X(42) VALUE
034700-      "-----ACREAGE-----".
034800      05 FILLER PIC X(13) VALUE SPACES.
034900 01  HD3R.
035000      05 FILLER PIC X(26) VALUE SPACES.
035100      05 HD3-NAME PIC X(15) VALUE " STRATUM ".
035200      05 FILLER PIC X(39) VALUE SPACES.
035300      05 FILLER PIC X(3) VALUE "BLM".
035400      05 FILLER PIC X(13) VALUE SPACES.
035500      05 FILLER PIC X(5) VALUE "OTHER".
035600      05 FILLER PIC X(14) VALUE SPACES.
035700      05 FILLER PIC X(5) VALUE "TOTAL".
035800      05 FILLER PIC X(15) VALUE SPACES.
035900 01  HD4R.
036000      05 FILLER PIC X(28) VALUE SPACES.
036100      05 HD4-NAME PIC X(10).
036200      05 FILLER PIC X(33) VALUE SPACES.
036300      05 36-44R PIC ZZ,ZZZ,ZZZ.9.
036400      05 FILLER PIC X(6) VALUE SPACES.
036500      05 37-45R PIC ZZ,ZZZ,ZZZ.9.
036600      05 FILLER PIC X(7) VALUE SPACES.
036700      05 38-46R PIC ZZ,ZZZ,ZZZ.9.
036800      05 FILLER PIC X(12) VALUE SPACES.

```

```

036900 01 HD4RX.
037000 05 FILLER PIC X(28) VALUE SPACES.
037100 05 HD4-NAMEX PIC X(10).
037200 05 FILLER PIC X(33) VALUE SPACES.
037300 05 36-44RX PIC ZZ,ZZZ,ZZZ.9.
037400 05 FILLER PIC X(6) VALUE SPACES.
037500 05 37-45RX PIC ZZ,ZZZ,ZZZ.9.
037600 05 FILLER PIC X(7) VALUE SPACES.
037700 05 38-46RX PIC ZZ,ZZZ,ZZZ.9.
037800 05 FILLER PIC X(3) VALUE SPACES.
037900 05 PERCENTS PIC ZZZ.99.
038000 05 FILLER PIC X VALUE "%".
038100 05 FILLER PIC X(2) VALUE SPACES.
038200 01 HD5R.
038300 05 FILLER PIC X(23) VALUE SPACES.
038400 05 FILLER PIC X(15) VALUE "RESOURCE TOTALS".
038500 05 FILLER PIC X(32) VALUE SPACES.
038600 05 36-44RT PIC ZZZ,ZZZ,ZZZ.9.
038700 05 FILLER PIC X(5) VALUE SPACES.
038800 05 37-45RT PIC ZZZ,ZZZ,ZZZ.9.
038900 05 FILLER PIC X(6) VALUE SPACES.
039000 05 38-46RT PIC ZZZ,ZZZ,ZZZ.9.
039100 05 FILLER PIC X(12) VALUE SPACES.
039200 01 HD1RX.
039300 05 FILLER PIC X(19) VALUE " RESOURCE AREA ".
039400 05 HD1RX-RA PIC X(20) VALUE "SALT WELLS ".
039500 05 FILLER PIC X(15) VALUE SPACES.
039600 05 HD1RX-NAME PIC X(23) VALUE " STRATUM SUMMARY ".
039700 05 FILLER PIC X(39) VALUE SPACES.
039800 05 FILLER PIC X(8) VALUE "PAGE NO ".
039900 05 PG-NOX PIC ZZZZ9.
040000 05 FILLER PIC X(3) VALUE SPACES.
040100 01 ST-NAM-HLD.
040200 03 ST-NAME PIC X(10).
040300 03 FILLER PIC X(14).
040400 01 DRP-NAM-HLD.
040500 03 DS-NAME PIC X(10).
040600 03 FILLER PIC XX.
040700 03 RA-NAME PIC X(12).
040800 03 FILLER PIC X.
040900 03 PU-NAME PIC X(15).
041000 01 FILE-STATUS.
041100 03 MAJOR-STATUS PIC X.
041200 03 MINOR-STATUS PIC X.
041300 COPY DBSTATUS IN TPCOBOLIB.
041400 PROCEDURE DIVISION.
041500 SORT-STATEMENT SECTION.
041600 SORT-STATEMENT-PARA.
041700 SORT SORT-FILE ON ASCENDING KEY SORT-KEY,
041800 INPUT PROCEDURE IS 100-INPUT,
041900 OUTPUT PROCEDURE IS 600-OUTPUT.
042000 FINISH DIC-DE.
042100 STOP RUN.
042200 100-INPUT SECTION.
042300 110-INPUT.
042400 OPEN INPUT ACRE-STRATUM-FILE
042500 OUTPUT PRINT-FILE.

```

```

042600     READY DIC-DE.
042700     ACCEPT DATE-IN FROM DATE.
042800     MOVE YY TO HD-YY.
042900     MOVE MM TO HD-MM.
043000     MOVE DD TO HD-DD.
043100 120-READ1.
043200     READ ACRE-STRATUM-FILE AT END GO TO 130-READ2.
043300*    DISPLAY ACRE-STRATUM-REC.
043400     MOVE ACRE-STRATUM-REC TO ACRE-STRATUM-REC-HLD.
043500     MOVE SDRP-W TO ADST-DIST-RA-PLU-CDS-H.
043600     PERFORM 590-DB-HDR THRU 590-EXIT.
043700     MOVE ALOT-W TO ALOT-H, HD6-ALOT.
043800     MOVE RS-S-VST-CC TO RS-S-VST-CC-H.
043900     MOVE RNG-SITE-W TO RNG-SITE-P.
044000     MOVE STRAT-W TO STRAT-P.
044100     MOVE VEG-SUB-TYP-W TO VEG-SUB-TYP-P.
044200     MOVE COND-CLASS-W TO COND-CLASS-P.
044300*    IF RA-W = "48" MOVE "VALLEY  " TO HD5-RA, HD1RX-RA
044400*    ELSE IF RA-W = "58" MOVE "PHILLIPS" TO HD5-RA, HD1RX-RA
044500*    ELSE IF RA-W = "68" MOVE "HAVRE  " TO HD5-RA, HD1RX-RA
044600*    ELSE DISPLAY "BAD RESOURCE AREA" SPACE ACRE-STRATUM-REC
044700*    GO TO 120-READ1.
044800     EXAMINE ACRES-W REPLACING ALL SPACES BY ZEROS.
044900*    IF RNG-SITE-W2 = "27" MOVE "C" TO COND-CLASS-W.
045000     IF SOIL-PHASE-W = "000110" MOVE "U" TO COND-CLASS-W.
045100     MOVE ZEROS TO 130T, 140T, 160T, 170T, 200T, 210T,
045200     240T, 250T, 280T, 290T, 320T, 330T, 360T, 370T,
045300     400T, 410T, 440T, 450T, 320TX, 330TX, 320TXX, 330TXX.
045400     PERFORM 310-ACREAGE THRU 310-ACREAGE-EXIT.
045500     PERFORM 400-HDGS1 THRU 400-HDGS1-EXIT.
045600     PERFORM 400-HDGS1A THRU 400-HDGS1A-EXIT.
045700 130-READ2.
045800     READ ACRE-STRATUM-FILE AT END GO TO 510-CLOSE-INPUT.
045900     ADD 1 TO CNT-IN.
046000     IF CNT-IN > TEST-CNT GO TO 510-CLOSE-INPUT.
046100*    DISPLAY ACRE-STRATUM-REC.
046200     MOVE ACRE-STRATUM-REC TO ACRE-STRATUM-REC-HLD.
046300     EXAMINE ACRES-W REPLACING ALL SPACES BY ZEROS.
046400*    IF RNG-SITE-W2 = "27" MOVE "C" TO COND-CLASS-W.
046500     IF SOIL-PHASE-W = "000110" MOVE "U" TO COND-CLASS-W.
046600     IF ALOT-W = HD6-ALOT
046700     PERFORM 150-P1 THRU 150-P1-EXIT
046800     GO TO 130-READ2.
046900     PERFORM 320-SOIL-SERIES THRU 320-SOIL-SER-EXIT.
047000     PERFORM 300-COND-CK THRU 300-CC-EXIT.
047100     PERFORM 330-STRATUM-CHG THRU 330-SC-EXIT.
047200     PERFORM 340-ALLOTMENT-CHG THRU 340-AC-EXIT.
047300     PERFORM 400-HDGS1 THRU 400-HDGS1-EXIT.
047400     PERFORM 400-HDGS1A THRU 400-HDGS1A-EXIT.
047500     PERFORM 310-ACREAGE THRU 310-ACREAGE-EXIT.
047600     GO TO 130-READ2.
047700 150-P1.
047800     IF (RS-S-VST-CC = RS-S-VST-CC-H) AND (SOIL-PHASE-W = 31H)
047900     PERFORM 200-OWNR-CK THRU 200-OC-EXIT
048000     GO TO 150-P1-EXIT.
048100     IF (RS-S-VST-CC = RS-S-VST-CC-H) AND (SOIL-PHASE-W NOT = 31H)
048200     PERFORM 320-SOIL-SERIES THRU 320-SOIL-SER-EXIT

```



```

048300     PERFORM 300-COND-CK THRU 300-CC-EXIT
048400     PERFORM 310-ACREAGE THRU 310-ACREAGE-EXIT
048500     GO TO 150-P1-EXIT.
048600     PERFORM 320-SOIL-SERIES THRU 320-SOIL-SER-EXIT.
048700     PERFORM 300-COND-CK THRU 300-CC-EXIT.
048800     PERFORM 330-STRATUM-CHG THRU 330-SC-EXIT.
048900     PERFORM 310-ACREAGE THRU 310-ACREAGE-EXIT.
049000 150-P1-EXIT.  EXIT.
049100 200-OWNR-CK.
049200     IF JURIS-W = "BLM" ADD ACRES-W-RD TO 100T
049300     ELSE ADD ACRES-W-RD TO 110T.
049400*   DISPLAY "100T= " 100T.
049500 200-OC-EXIT.  EXIT.
049600 300-COND-CK.
049700     IF COND-CLASS-P = "E"
049800     ADD 100T TO 200T  ADD 110T TO 210T
049900     ELSE IF COND-CLASS-P = "G"
050000     ADD 100T TO 240T  ADD 110T TO 250T
050100     ELSE IF COND-CLASS-P = "F"
050200     ADD 100T TO 280T  ADD 110T TO 290T
050300     ELSE IF COND-CLASS-P = "P"
050400     ADD 100T TO 320T  ADD 110T TO 330T
050500     ELSE IF COND-CLASS-P = "C"
050600     ADD 100T TO 320TXX  ADD 110T TO 330TXX
050700     ELSE IF COND-CLASS-P = "U"
050800     ADD 100T TO 320TX  ADD 110T TO 330TX
050900     ELSE ADD 100T TO 320TX  ADD 110T TO 330TX.
051000 300-CC-EXIT.  EXIT.
051100 310-ACREAGE.
051200     MOVE SOIL-PHASE-W TO 31H, SOIL-SER-P.
051300     IF JURIS-W NOT = "BLM"
051400     MOVE ACRES-W-RD TO 110T
051500     MOVE ZEROS TO 100T
051600     ELSE MOVE ACRES-W-RD TO 100T
051700     MOVE ZEROS TO 110T.
051800 310-ACREAGE-EXIT.  EXIT.
051900 320-SOIL-SERIES.
052000     IF SDR-W NOT = ADSTDSRA-CD-H
052100     MOVE SDRP-W TO ADST-DIST-RA-PLU-CDS-H
052200     PERFORM 590-DB-HDR THRU 590-EXIT.
052300     IF LINECT > 53
052400     PERFORM 400-HDGS1 THRU 400-HDGS1-EXIT
052500     PERFORM 400-HDGS1A THRU 400-HDGS1A-EXIT.
052600     ADD 100T, 110T GIVING 120T.
052700     MOVE 100T TO 10PT.
052800     MOVE 110T TO 11PT.
052900     MOVE 120T TO 12PT.
053000     MOVE DATA1 TO PRINT-REC.
053100     WRITE PRINT-REC.
053200     ADD 1 TO LINECT.
053300     ADD 1 TO DET-CNT.
053400     MOVE SOIL-SER-P TO SOIL-SER-SSW, SOIL-SER-KEY-SSW.
053500     MOVE 100T TO 440T.
053600     MOVE 110T TO 450T.
053700     RELEASE SORT-REC FROM SOIL-SERIESW.
053800     ADD 100T TO 130T.
053900     ADD 110T TO 140T.

```

054000 320-SOIL-SER-EXIT. EXIT.  
054100 330-STRATUM-CHG.  
054200 ADD 13OT, 14OT GIVING 15OT.  
054300 MOVE 13OT TO 13PT.  
054400 MOVE 14OT TO 14PT.  
054500 MOVE 15OT TO 15PT.  
054600 IF DET-CNT = 1  
054700 GO TO PASS-STRAT-TOT.  
054800 IF LINECT > 53  
054900 PERFORM 400-HDGS1 THRU 400-HDGS1-EXIT.  
055000 MOVE DATA2 TO PRINT-REC.  
055100 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
055200 MOVE SPACES TO PRINT-REC.  
055300 WRITE PRINT-REC.  
055400 ADD 3 TO LINECT.  
055500 PASS-STRAT-TOT.  
055600 MOVE ZERO TO DET-CNT.  
055700 ADD 13OT TO 16OT.  
055800 ADD 14OT TO 17OT.  
055900 MOVE STRAT-P TO STRAT-SW, STRAT-KEY-SW.  
056000 MOVE 13OT TO 36OT.  
056100 MOVE 14OT TO 37OT.  
056200 RELEASE SORT-REC FROM STRATUMW.  
056300 MOVE ZEROS TO 13OT, 14OT.  
056400 MOVE RS-S-VST-CC TO RS-S-VST-CC-H.  
056500 MOVE RNG-SITE-W TO RNG-SITE-P.  
056600 MOVE STRAT-W TO STRAT-P.  
056700 MOVE VEG-SUB-TYP-W TO VEG-SUB-TYP-P.  
056800 MOVE COND-CLASS-W TO COND-CLASS-P.  
056900 330-SC-EXIT. EXIT.  
057000 340-ALLOTMENT-CHG.  
057100 IF LINECT > 53  
057200 PERFORM 400-HDGS1 THRU 400-HDGS1-EXIT.  
057300 ADD 16OT, 17OT GIVING 18OT.  
057400 MOVE 16OT TO 16PT.  
057500 MOVE 17OT TO 17PT.  
057600 MOVE 18OT TO 18PT.  
057700 MOVE DATA3 TO PRINT-REC  
057800 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
057900 ADD 2 TO LINECT.  
058000 ADD 20OT, 21OT GIVING 22OT.  
058100 ADD 24OT, 25OT GIVING 26OT.  
058200 ADD 28OT, 29OT GIVING 30OT.  
058300 ADD 32OT, 33OT GIVING 34OT.  
058400 ADD 32OTX, 33OTX GIVING 34OTX.  
058500 ADD 32OTXX, 33OTXX GIVING 34OTXX.  
058600 IF LINECT > 39  
058700 PERFORM 400-HDGS1 THRU 400-HDGS1-EXIT.  
058800 MOVE HD10 TO PRINT-REC.  
058900 WRITE PRINT-REC AFTER 2 LINES.  
059000 MOVE "EXCELLENT " TO 19-31PT.  
059100 MOVE 20OT TO 20-32PT.  
059200 MOVE 21OT TO 21-33PT.  
059300 MOVE 22OT TO 22-34PT.  
059400 DIVIDE 18OT INTO 22OT GIVING PW1 ROUNDED.  
059500 PERFORM 500-CP THRU 500-CP-EXIT.  
059600 MOVE DATA4 TO PRINT-REC.

059700 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
059800 MOVE "GOOD " TO 19-31PT.  
059900 MOVE 24OT TO 20-32PT.  
060000 MOVE 25OT TO 21-33PT.  
060100 MOVE 26OT TO 22-34PT.  
060200 DIVIDE 18OT INTO 26OT GIVING PW1 ROUNDED.  
060300 PERFORM 500-CP THRU 500-CP-EXIT.  
060400 MOVE DATA4 TO PRINT-REC.  
060500 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
060600 MOVE "FAIR " TO 19-31PT.  
060700 MOVE 28OT TO 20-32PT.  
060800 MOVE 29OT TO 21-33PT.  
060900 MOVE 30OT TO 22-34PT.  
061000 DIVIDE 18OT INTO 30OT GIVING PW1 ROUNDED.  
061100 PERFORM 500-CP THRU 500-CP-EXIT.  
061200 MOVE DATA4 TO PRINT-REC.  
061300 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
061400 MOVE "POOR " TO 19-31PT.  
061500 MOVE 32OT TO 20-32PT.  
061600 MOVE 33OT TO 21-33PT.  
061700 MOVE 34OT TO 22-34PT.  
061800 DIVIDE 18OT INTO 34OT GIVING PW1 ROUNDED.  
061900 PERFORM 500-CP THRU 500-CP-EXIT.  
062000 MOVE DATA4 TO PRINT-REC.  
062100 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
062200 MOVE "CROPLAND " TO 19-31PT.  
062300 MOVE 32OTXX TO 20-32PT.  
062400 MOVE 33OTXX TO 21-33PT.  
062500 MOVE 34OTXX TO 22-34PT.  
062600 DIVIDE 18OT INTO 34OTXX GIVING PW1 ROUNDED.  
062700 PERFORM 500-CP THRU 500-CP-EXIT.  
062800 MOVE DATA4 TO PRINT-REC.  
062900 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
063000 MOVE "UNSUITABLE" TO 19-31PT.  
063100 MOVE 32OTX TO 20-32PT.  
063200 MOVE 33OTX TO 21-33PT.  
063300 MOVE 34OTX TO 22-34PT.  
063400 DIVIDE 18OT INTO 34OTX GIVING PW1 ROUNDED.  
063500 PERFORM 500-CP THRU 500-CP-EXIT.  
063600 MOVE DATA4 TO PRINT-REC.  
063700 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
063800 MOVE "E" TO COND-CLASS-CCW, COND-CLASS-KEY-CCW.  
063900 MOVE 20OT TO 40OT.  
064000 MOVE 21OT TO 41OT.  
064100 RELEASE SORT-REC FROM COND-CLASSW.  
064200 MOVE "G" TO COND-CLASS-CCW, COND-CLASS-KEY-CCW.  
064300 MOVE 24OT TO 40OT.  
064400 MOVE 25OT TO 41OT.  
064500 RELEASE SORT-REC FROM COND-CLASSW.  
064600 MOVE "F" TO COND-CLASS-CCW, COND-CLASS-KEY-CCW.  
064700 MOVE 28OT TO 40OT.  
064800 MOVE 29OT TO 41OT.  
064900 RELEASE SORT-REC FROM COND-CLASSW.  
065000 MOVE "P" TO COND-CLASS-CCW, COND-CLASS-KEY-CCW.  
065100 MOVE 32OT TO 40OT.  
065200 MOVE 33OT TO 41OT.  
065300 RELEASE SORT-REC FROM COND-CLASSW.

```

065400     MOVE "C" TO COND-CLASS-CCW, COND-CLASS-KEY-CCW.
065500     MOVE 32OTXX TO 40OT.
065600     MOVE 33OTXX TO 41OT.
065700     RELEASE SORT-REC FROM COND-CLASSW.
065800     MOVE "U" TO COND-CLASS-CCW, COND-CLASS-KEY-CCW.
065900     MOVE 32OTX TO 40OT.
066000     MOVE 33OTX TO 41OT.
066100     RELEASE SORT-REC FROM COND-CLASSW.
066200     MOVE ALOT-W TO ALOT-H, HD6-ALOT.
066300     MOVE RS-S-VST-CC TO RS-S-VST-CC-H.
066400     MOVE RNG-SITE-W TO RNG-SITE-P.
066500     MOVE STRAT-W TO STRAT-P.
066600     MOVE VEG-SUB-TYP-W TO VEG-SUB-TYP-P.
066700     MOVE COND-CLASS-W TO COND-CLASS-P.
066800     MOVE ZEROS TO 16OT, 17OT, 20OT, 21OT, 24OT, 25OT,
066900         28OT, 29OT, 32OT, 33OT, 32OTX, 33OTX, 32OTXX, 33OTXX.
067000 340-AC-EXIT.  EXIT.
067100 400-HDGS1.
067200     ADD 1 TO PAGECT.
067300     MOVE PAGECT TO HDR-PG.
067400     MOVE SPACES TO PRINT-REC.
067500     WRITE PRINT-REC AFTER ADVANCING PAGE.
067600     MOVE HD1 TO PRINT-REC.
067700     WRITE PRINT-REC.
067800     MOVE HD3 TO PRINT-REC.
067900     WRITE PRINT-REC.
068000     MOVE HD4 TO PRINT-REC.
068100     WRITE PRINT-REC.
068200     MOVE HD5 TO PRINT-REC.
068300     WRITE PRINT-REC.
068400     MOVE HD6 TO PRINT-REC.
068500     WRITE PRINT-REC AFTER ADVANCING 2 LINES.
068600     MOVE 8 TO LINECT.
068700 400-HDGS1-EXIT.  EXIT.
068800 400-HDGS1A.
068900     MOVE HD7 TO PRINT-REC.
069000     WRITE PRINT-REC.
069100     MOVE HD8 TO PRINT-REC.
069200     WRITE PRINT-REC.
069300     MOVE HD9 TO PRINT-REC.
069400     WRITE PRINT-REC.
069500     MOVE SPACES TO PRINT-REC.
069600     WRITE PRINT-REC.
069700     ADD 4 TO LINECT.
069800 400-HDGS1A-EXIT.  EXIT.
069900 500-CP.
070000     MOVE PW1X TO PERCENT.
070100 500-CP-EXIT.  EXIT.
070200 510-CLOSE-INPUT.
070300     IF LINECT > 50 PERFORM 400-HDGS1 THRU 400-HDGS1-EXIT
070400         PERFORM 400-HDGS1A THRU 400-HDGS1A-EXIT.
070500     ADD 10OT, 11OT GIVING 12OT.
070600         MOVE 10OT TO 10PT.
070700         MOVE 11OT TO 11PT.
070800         MOVE 12OT TO 12PT.
070900     MOVE DATA1 TO PRINT-REC  WRITE PRINT-REC.
071000     ADD 1 TO LINECT.

```

```

071100     ADD 100T TO 130T  ADD 110T TO 140T.
071200     ADD 130T, 140T GIVING 150T.
071300     MOVE 130T TO 13PT.
071400     MOVE 140T TO 14PT.
071500     MOVE 150T TO 15PT.
071600     IF DET-CNT = 1
071700         GO TO 520-PASS-FINAL-STRAT-TOT.
071800     MOVE DATA2 TO PRINT-REC
071900     WRITE PRINT-REC AFTER ADVANCING 2 LINES.
072000     MOVE SPACES TO PRINT-REC.
072100     WRITE PRINT-REC.
072200     ADD 3 TO LINECT.
072300 520-PASS-FINAL-STRAT-TOT.
072400     MOVE ZERO TO DET-CNT.
072500     ADD 130T TO 160T  ADD 140T TO 170T.
072600     ADD 160T, 170T GIVING 180T.
072700     MOVE 160T TO 16PT.
072800     MOVE 170T TO 17PT.
072900     MOVE 180T TO 18PT.
073000     IF LINECT > 38  PERFORM 400-HDGS1 THRU 400-HDGS1-EXIT.
073100     MOVE DATA3 TO PRINT-REC.
073200     WRITE PRINT-REC AFTER ADVANCING 2 LINES.
073300     ADD 2 TO LINECT.
073400     IF COND-CLASS-P = "E"
073500         ADD 100T TO 200T  ADD 110T TO 210T
073600     ELSE IF COND-CLASS-P = "G"
073700         ADD 100T TO 240T  ADD 110T TO 250T
073800     ELSE IF COND-CLASS-P = "F"
073900         ADD 100T TO 280T  ADD 110T TO 290T
074000     ELSE IF COND-CLASS-P = "P"
074100         ADD 100T TO 320T  ADD 110T TO 330T
074200     ELSE IF COND-CLASS-P = "C"
074300         ADD 100T TO 320TXX  ADD 110T TO 330TXX
074400     ELSE IF COND-CLASS-P = "U"  ADD 100T TO 320TX
074500         ADD 110T TO 330TX
074600     ELSE ADD 100T TO 320TX  ADD 110T TO 330TX.
074700     ADD 200T, 210T GIVING 220T.
074800     ADD 240T, 250T GIVING 260T.
074900     ADD 280T, 290T GIVING 300T.
075000     ADD 320T, 330T GIVING 340T.
075100     ADD 320TX, 330TX GIVING 340TX.
075200     ADD 320TXX, 330TXX GIVING 340TXX.
075300     MOVE HD10 TO PRINT-REC.
075400     WRITE PRINT-REC AFTER 2 LINES.
075500     MOVE "EXCELLENT" TO 19-31PT.
075600     MOVE 200T TO 20-32PT.
075700     MOVE 210T TO 21-33PT.
075800     MOVE 220T TO 22-34PT.
075900     DIVIDE 180T INTO 220T GIVING PW1 ROUNDED.
076000     PERFORM 500-CP THRU 500-CP-EXIT.
076100     MOVE DATA4 TO PRINT-REC.
076200     WRITE PRINT-REC AFTER ADVANCING 2 LINES.
076300     MOVE "GOOD      " TO 19-31PT.
076400     MOVE 240T TO 20-32PT.
076500     MOVE 250T TO 21-33PT.
076600     MOVE 260T TO 22-34PT.
076700     DIVIDE 180T INTO 260T GIVING PW1 ROUNDED.

```

076800 PERFORM 500-CP THRU 500-CP-EXIT.  
076900 MOVE DATA4 TO PRINT-REC.  
077000 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
077100 MOVE "FAIR " TO 19-31PT.  
077200 MOVE 28OT TO 20-32PT.  
077300 MOVE 29OT TO 21-33PT.  
077400 MOVE 30OT TO 22-34PT.  
077500 DIVIDE 18OT INTO 30OT GIVING PW1 ROUNDED.  
077600 PERFORM 500-CP THRU 500-CP-EXIT.  
077700 MOVE DATA4 TO PRINT-REC.  
077800 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
077900 MOVE "POOR " TO 19-31PT.  
078000 MOVE 32OT TO 20-32PT.  
078100 MOVE 33OT TO 21-33PT.  
078200 MOVE 34OT TO 22-34PT.  
078300 DIVIDE 18OT INTO 34OT GIVING PW1 ROUNDED.  
078400 PERFORM 500-CP THRU 500-CP-EXIT.  
078500 MOVE DATA4 TO PRINT-REC.  
078600 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
078700 MOVE "CROPLAND " TO 19-31PT.  
078800 MOVE 32OTXX TO 20-32PT.  
078900 MOVE 33OTXX TO 21-33PT.  
079000 MOVE 34OTXX TO 22-34PT.  
079100 DIVIDE 18OT INTO 34OTXX GIVING PW1 ROUNDED.  
079200 PERFORM 500-CP THRU 500-CP-EXIT.  
079300 MOVE DATA4 TO PRINT-REC.  
079400 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
079500 MOVE "UNSUITABLE" TO 19-31PT.  
079600 MOVE 32OTX TO 20-32PT.  
079700 MOVE 33OTX TO 21-33PT.  
079800 MOVE 34OTX TO 22-34PT.  
079900 DIVIDE 18OT INTO 34OTX GIVING PW1 ROUNDED.  
080000 PERFORM 500-CP THRU 500-CP-EXIT.  
080100 MOVE DATA4 TO PRINT-REC.  
080200 WRITE PRINT-REC AFTER ADVANCING 2 LINES.  
080300 MOVE SOIL-SER-P TO SOIL-SER-SSW, SOIL-SER-KEY-SSW.  
080400 MOVE 10OT TO 44OT.  
080500 MOVE 11OT TO 45OT.  
080600 RELEASE SORT-REC FROM SOIL-SERIESW.  
080700 MOVE STRAT-P TO STRAT-SW, STRAT-KEY-SW.  
080800 MOVE 13OT TO 36OT.  
080900 MOVE 14OT TO 37OT.  
081000 RELEASE SORT-REC FROM STRATUMW.  
081100 MOVE "E" TO COND-CLASS-CCW, COND-CLASS-KEY-CCW.  
081200 MOVE 20OT TO 40OT.  
081300 MOVE 21OT TO 41OT.  
081400 RELEASE SORT-REC FROM COND-CLASSW.  
081500 MOVE "G" TO COND-CLASS-CCW, COND-CLASS-KEY-CCW.  
081600 MOVE 24OT TO 40OT.  
081700 MOVE 25OT TO 41OT.  
081800 RELEASE SORT-REC FROM COND-CLASSW.  
081900 MOVE "F" TO COND-CLASS-CCW, COND-CLASS-KEY-CCW.  
082000 MOVE 28OT TO 40OT.  
082100 MOVE 29OT TO 41OT.  
082200 RELEASE SORT-REC FROM COND-CLASSW.  
082300 MOVE "P" TO COND-CLASS-CCW, COND-CLASS-KEY-CCW.  
082400 MOVE 32OT TO 40OT.

```

082500     MOVE 330T TO 410T.
082600     RELEASE SORT-REC FROM COND-CLASSW.
082700     MOVE "C" TO COND-CLASS-CCW, COND-CLASS-KEY-CCW.
082800     MOVE 320TXX TO 400T.
082900     MOVE 330TXX TO 410T.
083000     RELEASE SORT-REC FROM COND-CLASSW.
083100     MOVE "U" TO COND-CLASS-CCW, COND-CLASS-KEY-CCW.
083200     MOVE 320TX TO 400T.
083300     MOVE 330TX TO 410T.
083400     RELEASE SORT-REC FROM COND-CLASSW.
083500     MOVE ZEROS TO LINECT.
083600     CLOSE ACRE-STRATUM-FILE.
083700 590-DB-HDR.
083800     MOVE ADSTDSRA-CD-H TO DE-CD-8822-DEC.
083900     MOVE 0003 TO DE-NO-8801-DEC.
084000     FIND ANY CODE-DEC.
084100     MOVE DB-STATUS TO DB-STAT.
084200     IF NOT OK
084300         MOVE ADST-CD-H TO HD4-ST
084400         MOVE DIST-CD-H TO HD4-DS
084500         MOVE RA-CD-H TO HD5-RA HD1RX-RA
084600         GO TO 590-EXIT.
084700     GET CODE-DEC.
084800     MOVE DB-STATUS TO DB-STAT.
084900     IF NOT OK
085000         MOVE ADST-CD-H TO HD4-ST
085100         MOVE DIST-CD-H TO HD4-DS
085200         MOVE RA-CD-H TO HD5-RA HD1RX-RA
085300         GO TO 590-EXIT.
085400     MOVE DE-CD-NAM-8823-DEC TO ST-NAM-HLD.
085500     MOVE ST-NAME TO HD4-ST.
085600     FIND NEXT CODE-EXPL-DECE
085700         WITHIN DEC-DECE.
085800     MOVE DB-STATUS TO DB-STAT.
085900     IF NOT OK
086000         MOVE DIST-CD-H TO HD4-DS
086100         MOVE RA-CD-H TO HD5-RA HD1RX-RA
086200         GO TO 590-EXIT.
086300     GET CODE-EXPL-DECE.
086400     MOVE DB-STATUS TO DB-STAT.
086500     IF NOT OK
086600         MOVE DIST-CD-H TO HD4-DS
086700         GO TO 590-EXIT.
086800     MOVE DE-CD-EXPLN-8827-DECE TO DRP-NAM-HLD.
086900     MOVE DS-NAME TO HD4-DS.
087000     MOVE RA-NAME TO HD5-RA HD1RX-RA.
087100 590-EXIT.
087200     EXIT.
087300 600-OUTPUT SECTION.
087400 610-OUTPUT.
087500 610-RETURN1.
087600     RETURN SORT-FILE AT END GO TO 900-CLOSE.
087700*     DISPLAY "SR= " SORT-REC.
087800     MOVE SORT-REC TO HOLD-SORT-REC.
087900     IF KEYR1 NOT = KEYR1H
088000         PERFORM 700-HD-CKR THRU 700-EXIT
088100         GO TO 610-RETURN1.

```

```

088200     PERFORM 620-SUM-PROCESS THRU 620-SP-EXIT.
088300     GO TO 610-RETURN1.
088400 620-SUM-PROCESS.
088500     IF 35-43R = 35-43RH
088600         ADD 36R TO 36RH, 36RHT  ADD 37R TO 37RH, 37RHT
088700         GO TO 620-SP-EXIT.
088800     IF LINECT > 53 PERFORM 800-OFLO-HD2 THRU 800-EXIT.
088900     ADD 36RH, 37RH GIVING 38RH.
089000     IF FLAGG1 = 1
089100         MOVE 36RH TO 36-44RX
089200         MOVE 37RH TO 37-45RX
089300         MOVE 38RH TO 38-46RX
089400         DIVIDE 38RHT INTO 38RH GIVING PW1 ROUNDED
089500         MOVE PW1X TO PERCENTS
089600         MOVE HD4RX TO PRINT-REC
089700         WRITE PRINT-REC
089800     ELSE
089900         MOVE 36RH TO 36-44R
090000         MOVE 37RH TO 37-45R
090100         MOVE 38RH TO 38-46R
090200         MOVE HD4R TO PRINT-REC
090300         WRITE PRINT-REC.
090400     ADD 1 TO LINECT.
090500     MOVE 35-43R TO 35-43RH.
090600     IF KEYR1 = 1
090700         MOVE 35-43R TO 35R2
090800         MOVE 35R TO HD4-NAME.
090900     IF (KEYR1 = 2) AND (39R = "E")
091000         MOVE "EXCELLENT " TO HD4-NAMEX
091100     ELSE IF (KEYR1 = 2) AND (39R = "G")
091200         MOVE "GOOD      " TO HD4-NAMEX
091300     ELSE IF (KEYR1 = 2) AND (39R = "F")
091400         MOVE "FAIR      " TO HD4-NAMEX
091500     ELSE IF (KEYR1 = 2) AND (39R = "P")
091600         MOVE "POOR      " TO HD4-NAMEX
091700     ELSE IF (KEYR1 = 2) AND (39R = "C")
091800         MOVE "CROPLAND " TO HD4-NAMEX
091900     ELSE IF (KEYR1 = 2) AND (39R = "U")
092000         MOVE "UNSUITABLE" TO HD4-NAMEX.
092100     IF KEYR1 = 3
092200         MOVE 35-43R TO 43R2
092300         MOVE 43R TO HD4-NAME.
092400     MOVE 36R TO 36RH.
092500     MOVE 37R TO 37RH.
092600     ADD 36R TO 36RHT.
092700     ADD 37R TO 37RHT.
092800 620-SP-EXIT.  EXIT.
092900 700-HD-CKR.
093000     IF KEYR1 = 1
093100         MOVE " RESOURCE ACREAGE INFORMATION" TO HD5-NAME
093200         MOVE KEYR1 TO KEYR1H
093300         MOVE 35-43R TO 35-43RH, 35R2
093400         MOVE 35R TO HD4-NAME
093500         PERFORM 620-SUM-PROCESS THRU 620-SP-EXIT
093600         PERFORM 810-OFLO-HD3 THRU 810-EXIT
093700         GO TO 700-EXIT.
093800     IF KEYR1 = 2

```



```

093900         MOVE KEYR1 TO KEYR1H
094000         PERFORM 820-CK-OFLO THRU 820-EXIT
094100         ADD 36RHT, 37RHT GIVING 38RHT
094200         MOVE 36RHT TO 36-44RT
094300         MOVE 37RHT TO 37-45RT
094400         MOVE 38RHT TO 38-46RT
094500         MOVE ZEROS TO 36RHT, 37RHT
094600         PERFORM 620-SUM-PROCESS THRU 620-SP-EXIT
094700         MOVE HD5R TO PRINT-REC
094800         WRITE PRINT-REC AFTER ADVANCING 3 LINES
094900         MOVE 1 TO FLAGG1
095000         MOVE "RANGE CONDITION SUMMARY" TO HD1-NAME, HD1RX-NAME
095100         MOVE "CONDITION CLASS" TO HD3-NAME
095200         PERFORM 810-OFLO-HD3 THRU 810-EXIT
095300         GO TO 700-EXIT.
095400     IF KEYR1 = 3
095500         MOVE KEYR1 TO KEYR1H
095600         PERFORM 820-CK-OFLO THRU 820-EXIT
095700         ADD 36RHT, 37RHT GIVING 38RHT
095800         MOVE 36RHT TO 36-44RT
095900         MOVE 37RHT TO 37-45RT
096000         MOVE 38RHT TO 38-46RT
096100         MOVE ZEROS TO 36RHT, 37RHT
096200         PERFORM 620-SUM-PROCESS THRU 620-SP-EXIT
096300         MOVE HD5R TO PRINT-REC
096400         WRITE PRINT-REC AFTER ADVANCING 3 LINES
096500         MOVE 0 TO FLAGG1
096600         MOVE " SOIL SERIES SUMMARY " TO HD1-NAME, HD1RX-NAME
096700         MOVE " SOIL SERIES " TO HD3-NAME
096800         PERFORM 810-OFLO-HD3 THRU 810-EXIT
096900         GO TO 700-EXIT.
097000     700-EXIT.  EXIT.
097100     800-OFLO-HD2.
097200         ADD 1 TO PAGECT.
097300         MOVE PAGECT TO PG-NOX.
097400         MOVE SPACES TO PRINT-REC.
097500         WRITE PRINT-REC AFTER ADVANCING PAGE.
097600         MOVE HD1RX TO PRINT-REC.
097700         WRITE PRINT-REC AFTER ADVANCING 2 LINES.
097800         MOVE HD2R TO PRINT-REC.
097900         WRITE PRINT-REC AFTER ADVANCING 3 LINES.
098000         MOVE HD3R TO PRINT-REC.
098100         WRITE PRINT-REC AFTER ADVANCING 2 LINES.
098200         MOVE SPACES TO PRINT-REC  WRITE PRINT-REC.
098300         MOVE 9 TO LINECT.
098400     800-EXIT.  EXIT.
098500     810-OFLO-HD3.
098600         ADD 1 TO PAGECT.
098700         MOVE PAGECT TO HDR-PG.
098800         MOVE SPACES TO PRINT-REC.
098900         WRITE PRINT-REC AFTER ADVANCING PAGE.
099000         MOVE HD1 TO PRINT-REC.
099100         WRITE PRINT-REC.
099200         MOVE HD3 TO PRINT-REC.
099300         WRITE PRINT-REC.
099400         MOVE HD4 TO PRINT-REC.
099500         WRITE PRINT-REC.

```

```

099600 MOVE HD5 TO PRINT-REC.
099700 WRITE PRINT-REC.
099800 MOVE HD1R TO PRINT-REC.
099900 WRITE PRINT-REC AFTER ADVANCING 3 LINES.
100000 MOVE HD2R TO PRINT-REC.
100100 WRITE PRINT-REC AFTER ADVANCING 3 LINES.
100200 MOVE HD3R TO PRINT-REC.
100300 WRITE PRINT-REC AFTER ADVANCING 2 LINES.
100400 MOVE SPACES TO PRINT-REC.
100500 WRITE PRINT-REC.
100600 MOVE 15 TO LINECT.
100700 810-EXIT. EXIT.
100800 820-CK-OFLO.
100900 IF LINECT > 53 PERFORM 800-OFLO-HD2 THRU 800-EXIT.
101000 820-EXIT. EXIT.
101100 900-CLOSE.
101200 IF LINECT > 53 PERFORM 800-OFLO-HD2 THRU 800-EXIT.
101300 ADD 36RH, 37RH GIVING 38RH.
101400 MOVE 36RH TO 36-44R.
101500 MOVE 37RH TO 37-45R.
101600 MOVE 38RH TO 38-46R.
101700 MOVE HD4R TO PRINT-REC.
101800 WRITE PRINT-REC.
101900 IF LINECT > 53 PERFORM 800-OFLO-HD2 THRU 800-EXIT.
102000 ADD 36RHT, 37RHT GIVING 38RHT.
102100 MOVE 36RHT TO 36-44RT.
102200 MOVE 37RHT TO 37-45RT.
102300 MOVE 38RHT TO 38-46RT.
102400 MOVE HD5R TO PRINT-REC.
102500 WRITE PRINT-REC AFTER ADVANCING 3 LINES.
102600 DISPLAY "PAGES PRINTED " PAGECT.
102700 CLOSE PRINT-FILE.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES520P.
000300* ALLOTMENT LEVEL STRATIFICATION SUMMARY (P2 LIST)
000400*
000500 AUTHOR. M.QUANDT.
000700 ENVIRONMENT DIVISION.
000800 CONFIGURATION SECTION.
000900 SOURCE-COMPUTER. LEVEL-66-ASCII.
001000 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001100 INPUT-OUTPUT SECTION.
001200 FILE-CONTROL.
001300 SELECT INPUT-FILE ASSIGN TO I1
001400 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001500 SELECT PRINT-OUT ASSIGN TO P1
001600 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001700 SELECT SWA-FILE ASSIGN TO D1
001800 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001900 DATA DIVISION.
002000 SUB-SCHEMA SECTION.
002100 DB CODVAL2 WITHIN BLMDIC.
002200 FILE SECTION.
002300 FD INPUT-FILE
002400 CODE-SET IS GBCD
002500 LABEL RECORDS ARE STANDARD.

```

002600	01	IN-RECORD.	
002700	05	IN-REC-TYP	PIC X(2).
002800	05	IN-FMT-NUM	PIC X.
002900	05	IN-FORMAT-CD	PIC X.
003000	05	IN-BLM-ADM-U	PIC X(8).
003100	05	IN-CLMTC-ADJ-FCTR	PIC 99V999.
003200	05	IN-DATA-DATE	PIC X(6).
003300	05	IN-ACTION-CD	PIC X.
003400	05	IN-LIN-NUM	PIC X(4).
003500	05	IN-SWA	PIC X(4).
003600	05	IN-TRN-NUM	PIC XX.
003700	05	IN-SWA-PCT	PIC 999.
003800	05	IN-RNG-SITE-ID	PIC X(11).
003900	05	IN-STRATUM-NUM	PIC X(4).
004000	05	IN-ALLOT-NUM	PIC X(4).
004100	05	IN-PASTURE-NUM	PIC XX.
004200	05	IN-VEG-SUB-TYP	PIC X(4).
004300	05	IN-RNG-ECOL-COND-CLS	PIC X.
004400	05	IN-PCT-SLP	PIC XXX.
004500	05	IN-ASPT	PIC XX.
004600	05	IN-L-FORM	PIC XXX.
004700	05	IN-SOIL-PHAS	PIC X(5).
004800	05	FILLER	PIC XX.
004900	FD	PRINT-OUT	
005000		CODE-SET IS GBCD	
005100		LABEL RECORDS ARE STANDARD.	
005200	01	PRINT-LINE	PIC X(132).
005300	FD	SWA-FILE	
005400		CODE-SET IS GBCD	
005500		LABEL RECORDS ARE STANDARD	
005600		DATA RECORD IS SWA-REC.	
005700	01	SWA-REC.	
005800	05	OT-ST-DIST-RA-PLU	PIC X(8).
005900	05	OT-SWA	PIC X(4).
006000	05	OT-TRANSECT	PIC 99.
006100	05	OT-RANGE-SITE	PIC X(11).
006200	05	OT-STRATUM	PIC 9(4).
006300	05	OT-SWA-PERCENT	PIC 9(3).
006400	05	OT-ALLOTMENT	PIC 9(4).
006500	05	OT-PASTURE	PIC 99.
006600	05	OT-COMPARISON-AREA	PIC X.
006700	05	OT-CLIMATIC-ADJ-FCTR	PIC 99V999.
006800	05	OT-COND-CLS	PIC X.
006900	05	SPACE-FILL	PIC X(3).
007000		WORKING-STORAGE SECTION.	
007100	77	TRAN-INDX	PIC 999 VALUE ZERO.
007200	77	TRANS-CNT	PIC 999 VALUE ZERO.
007300	77	PERCENT-ACCUL	PIC 999 VALUE ZEROS.
007400	77	NEW-SKEY	PIC X(8).
007500	77	OLD-SKEY	PIC X(8).
007600	77	PG-CNT	PIC 9(5) VALUE ZEROS.
007700	77	WORK-SPACES	PIC X(132) VALUE SPACES.
007800	77	WORK-PRINT	PIC X(132).
007900	77	LINE-COUNT	PIC 99 VALUE ZEROS.
008000	77	WORK-PASTURE	PIC XX.
008100	77	READ-COUNT	PIC 9(7) VALUE ZERO.
008200	77	READ-COUNT-VB	PIC 9(7) VALUE ZERO.

008300 77 WRITE-COUNT PIC 9(7) VALUE ZERO.  
008400 77 NEW-ALLOT PIC X(4).  
008500 77 OLD-ALLOT PIC X(4).  
008600 77 NEW-PASTURE PIC XX.  
008700 77 OLD-PASTURE PIC XX.  
008800 77 NEW-SWA PIC X(4).  
008900 77 OLD-SWA PIC X(4).  
009000 77 NEW-STRA PIC X(4).  
009100 77 OLD-STRA PIC X(4).  
009200 01 SAVE-TRANSECT-TABLE.  
009300 05 SAVE-TRANSECT PIC 99 OCCURS 100 TIMES.  
009400 01 ZERO-CONDITION PIC 9 VALUE IS ZERO.  
009500 88 ZERO-TRANSECT VALUE IS 1.  
009600 01 SAVED-DATA.  
009700 05 FILLER PIC X(13) VALUE SPACES.  
009800 05 SAVE-ALLOT PIC X(4).  
009900 05 FILLER PIC X(17) VALUE SPACES.  
010000 05 SAVE-PASTURE PIC XX.  
010100 05 FILLER PIC X(16) VALUE SPACES.  
010200 05 SAVE-SWA PIC X(4).  
010300 01 HOLD-AREA.  
010400 03 ADST-DIST-RA-PLU-CDS-H.  
010500 05 ADST-CD-H PIC XX.  
010600 05 DIST-CD-H PIC XX.  
010700 05 RA-CD-H PIC XX.  
010800 05 PLU-CD-H PIC XX.  
010900 03 DE-CD-EXPLN-8827-DECE-H.  
011000 05 DIST-NAM-H PIC X(12).  
011100 05 RA-NAM-H PIC X(13).  
011200 05 PLU-NAM-H PIC X(15).  
011300 03 DE-CD-NAM-8823-DEC-H.  
011400 05 ST-NAM-H PIC X(10).  
011500 05 FILLER PIC X(14).  
011600 01 WS-IN-RECORD.  
011700 05 WS-REC-TYP PIC X(2).  
011800 05 WS-FMT-NUM PIC X.  
011900 05 WS-FORMAT-CD PIC X.  
012000 05 WS-BLM-ADM-U PIC X(8).  
012100 05 WS-CLMTC-ADJ-FCTR PIC 99V999.  
012200 05 WS-DATA-DATE PIC X(6).  
012300 05 WS-ACTION-CD PIC X.  
012400 05 WS-LIN-NUM PIC X(4).  
012500 05 WS-SWA PIC X(4).  
012600 05 WS-TRN-NUM PIC XX.  
012700 05 WS-SWA-PCT PIC 999.  
012800 05 WS-RNG-SITE-ID PIC X(11).  
012900 05 WS-STRATUM-NUM PIC X(4).  
013000 05 WS-ALLOT-NUM PIC X(4).  
013100 05 WS-PASTURE-NUM PIC XX.  
013200 05 WS-VEG-SUB-TYP PIC X(4).  
013300 05 WS-RNG-ECOL-COND-CLS PIC X.  
013400 05 WS-PCT-SLP PIC XXX.  
013500 05 WS-ASPT PIC XX.  
013600 05 WS-L-FORM PIC XXX.  
013700 05 WS-SOIL-PHAS PIC X(5).  
013800 05 FILLER PIC XX.  
013900 01 PAG-HDR-1.

014000	03	FILLER	PIC X(13) VALUE "REPORT DATE: "
014100	03	HEADER-DATE.	
014200	05	MO-HDR	PIC 99.
014300	05	FILLER	PIC X VALUE "/".
014400	05	DA-HDR	PIC 99.
014500	05	FILLER	PIC X VALUE "/".
014600	05	YR-HDR	PIC 99.
014700	03	FILLER	PIC X(28) VALUE SPACES.
014800	03	FILLER	PIC X(23) VALUE "U.S.D.I. BUREAU OF LAND".
014900	03	FILLER	PIC X(11) VALUE " MANAGEMENT".
015000	03	FILLER	PIC X(22) VALUE SPACES.
015100	03	FILLER	PIC X(15) VALUE "PCN: P020 "
015200	03	FILLER	PIC X(6) VALUE " PAGE "
015300	03	PAGE-NO	PIC ZZ,ZZ9.
015400	01	PAG-HDR-3.	
015500	03	FILLER	PIC X(20) VALUE " STATE "
015600	03	STATE-NAME	PIC X(10).
015700	03	FILLER	PIC X(24) VALUE SPACES.
015800	03	FILLER	PIC X(21) VALUE "ECOLOGICAL SITE INVEN".
015900	03	FILLER	PIC X(04) VALUE "TORY".
016000	03	FILLER	PIC X(53) VALUE SPACES.
016100	01	PAG-HDR-4.	
016200	03	FILLER	PIC X(20) VALUE " DISTRICT "
016300	03	DIST-NAME	PIC X(12).
016400	03	FILLER	PIC X(100) VALUE SPACES.
016500	01	PAG-HDR-5.	
016600	03	FILLER	PIC X(20) VALUE " RESOURCE AREA "
016700	03	RA-NAME	PIC X(13).
016800	03	FILLER	PIC X(13) VALUE SPACES.
016900	03	FILLER	PIC X(19) VALUE "ALLOTMENT LEVEL STR".
017000	03	FILLER	PIC X(19) VALUE "ATIFICATION SUMMARY".
017100	03	FILLER	PIC X(46) VALUE SPACES.
017200	01	PAG-HDR-6.	
017300	03	FILLER	PIC X(20) VALUE " PLANNING UNIT "
017400	03	PU-NAME	PIC X(15).
017500	03	FILLER	PIC X(97) VALUE SPACES.
017600	01	COL-HDR-1.	
017700	03	FILLER	PIC X(11) VALUE SPACES.
017800	03	FILLER	PIC X(9) VALUE "ALLOTMENT".
017900	03	FILLER	PIC X(12) VALUE SPACES.
018000	03	FILLER	PIC X(7) VALUE "PASTURE".
018100	03	FILLER	PIC X(14) VALUE SPACES.
018200	03	FILLER	PIC X(3) VALUE "SWA".
018300	03	FILLER	PIC X(16) VALUE SPACES.
018400	03	FILLER	PIC X(7) VALUE "STRATUM".
018500	03	FILLER	PIC X(12) VALUE SPACES.
018600	03	FILLER	PIC X(8) VALUE "% OF SWA".
018700	03	FILLER	PIC X(11) VALUE SPACES.
018800	03	FILLER	PIC X(10) VALUE "RANGE SITE".
018900	03	FILLER	PIC X(12) VALUE SPACES.
019000	01	DATA-LINE-1.	
019100	03	FILLER	PIC X(13) VALUE SPACES.
019200	03	ALLOT-P	PIC X(4).
019300	03	FILLER	PIC X(17) VALUE SPACES.
019400	03	PASTURE-P	PIC XX.
019500	03	FILLER	PIC X(16) VALUE SPACES.
019600	03	SWA-P	PIC X(4).

```

019700      03  FILLER          PIC X(17) VALUE SPACES.
019800      03  STRATUM-P      PIC 9(4).
019900      03  FILLER          PIC X(16) VALUE SPACES.
020000      03  PCT-SWA-P      PIC ZZ9.
020100      03  FILLER          PIC X(14) VALUE SPACES.
020200      03  RNG-SITE-P    PIC X(11).
020300      03  FILLER          PIC X(11) VALUE SPACES.
020400  01  DATA-LINE-2 REDEFINES DATA-LINE-1 PIC X(132).
020500  01  DATE-TODAY.
020600      05  THIS-YEAR          PIC 99.
020700      05  THIS-MONTH        PIC 99.
020800      05  THIS-DAY          PIC 99.
020900  01  EOF-CONDITION        PIC 9.
021000      88  FILE-END VALUE IS 1.
021100  PROCEDURE DIVISION.
021200  10-HOUSEKEEPING.
021300      PERFORM 200-HOUSEKEEP THRU 205-EXIT.
021400  20-MAINLINE.
021500      PERFORM 210-READ-INPUT.
021600      IF FILE-END
021700          PERFORM 900-WRAPUP
021800          STOP RUN.
021900      IF IN-REC-TYP NOT EQUAL "VB"
022000          GO TO 20-MAINLINE.
022100      ADD 1 TO READ-COUNT-VB.
022200      IF IN-PASTURE-NUM EQUAL "00"
022300          MOVE SPACES TO WORK-PASTURE
022400      ELSE MOVE IN-PASTURE-NUM TO WORK-PASTURE.
022500      PERFORM 240-SKEY-CHANGE.
022600      PERFORM 220-ALLOT-CHANGE THRU 226-STRA-CHANGE.
022700      IF NEW-SKEY NOT EQUAL OLD-SKEY
022800          OR NEW-ALLOT NOT EQUAL OLD-ALLOT
022900          PERFORM 700-SAVE-TO-LINE
023000          PERFORM 500-MOVE-ALLOT THRU 520-MOVE-SWA
023100          GO TO 30-BYPASS.
023200      IF NEW-PASTURE NOT EQUAL OLD-PASTURE
023300          PERFORM 700-SAVE-TO-LINE
023400          PERFORM 510-MOVE-PASTURE THRU 520-MOVE-SWA
023500          GO TO 30-BYPASS.
023600      IF NEW-SWA NOT EQUAL OLD-SWA
023700          PERFORM 700-SAVE-TO-LINE
023800          PERFORM 520-MOVE-SWA
023900          GO TO 30-BYPASS.
024000      IF NEW-STRA NOT EQUAL OLD-STRA
024100          PERFORM 700-SAVE-TO-LINE
024200          GO TO 30-BYPASS.
024300      GO TO 40-CALCULATE.
024400  30-BYPASS.
024500      IF LINE-COUNT GREATER 54
024600          PERFORM 710-1ST-LINE-MOVE.
024700      PERFORM 310-MOVE-TO-PRINT THRU 330-MOVE-WRITE-FILE.
024800      IF NEW-SKEY NOT EQUAL OLD-SKEY
024900          PERFORM 250-SKEY-TO-HDR THRU 260-TOP-PAGE.
025000      PERFORM 230-INITIAL-ACCUL.
025100      PERFORM 610-EXCHANGE.
025200  40-CALCULATE.
025300      PERFORM 300-PERCENT-ADD.

```

```

025400      GO TO 20-MAINLINE.
025500 200-HOUSEKEEP.
025600      OPEN INPUT INPUT-FILE.
025700      OPEN OUTPUT PRINT-OUT SWA-FILE.
025800      READY DIC-DE.
025900      MOVE SPACES TO PRINT-LINE.
026000      MOVE ZERO TO EOF-CONDITION.
026100      INITIALIZE SWA-REC.
026200      ACCEPT DATE-TODAY FROM DATE.
026300      MOVE THIS-DAY TO DA-HDR.
026400      MOVE THIS-MONTH TO MO-HDR.
026500      MOVE THIS-YEAR TO YR-HDR.
026600 201-READ-LOOP.
026700      PERFORM 210-READ-INPUT.
026800      IF FILE-END
026900          DISPLAY "NO RECORD IN INPUT FILE"
027000          PERFORM 900-WRAPUP
027100          STOP RUN.
027200      IF IN-REC-TYP NOT EQUAL "VB"
027300          GO TO 201-READ-LOOP.
027400      ADD 1 TO READ-COUNT-VB.
027500      IF IN-PASTURE-NUM EQUAL "00"
027600          MOVE SPACES TO WORK-PASTURE
027700      ELSE MOVE IN-PASTURE-NUM TO WORK-PASTURE.
027800      PERFORM 610-EXCHANGE.
027900      PERFORM 250-SKEY-TO-HDR.
028000      PERFORM 260-TOP-PAGE.
028100      MOVE SPACES TO SAVED-DATA.
028200      PERFORM 500-MOVE-ALLOT THRU 520-MOVE-SWA.
028300      MOVE IN-ALLOT-NUM TO NEW-ALLOT.
028400      MOVE IN-PASTURE-NUM TO NEW-PASTURE.
028500      MOVE IN-SWA TO NEW-SWA.
028600      MOVE IN-STRATUM-NUM TO NEW-STRA.
028700      MOVE IN-BLM-ADM-U TO NEW-SKEY.
028800      PERFORM 300-PERCENT-ADD.
028900 205-EXIT.
029000      EXIT.
029100 210-READ-INPUT.
029200      READ INPUT-FILE
029300          AT END MOVE 1 TO EOF-CONDITION
029400          SUBTRACT 1 FROM READ-COUNT.
029500          ADD 1 TO READ-COUNT.
029600 220-ALLOT-CHANGE.
029700      MOVE NEW-ALLOT TO OLD-ALLOT.
029800      MOVE IN-ALLOT-NUM TO NEW-ALLOT.
029900 222-PASTURE-CHANGE.
030000      MOVE NEW-PASTURE TO OLD-PASTURE.
030100      MOVE IN-PASTURE-NUM TO NEW-PASTURE.
030200 224-SWA-CHANGE.
030300      MOVE NEW-SWA TO OLD-SWA.
030400      MOVE IN-SWA TO NEW-SWA.
030500 226-STRA-CHANGE.
030600      MOVE NEW-STRA TO OLD-STRA.
030700      MOVE IN-STRATUM-NUM TO NEW-STRA.
030800 230-INITIAL-ACCUL.
030900      MOVE ZEROS TO PERCENT-ACCUL.
031000 240-SKEY-CHANGE.

```

```

031100     MOVE NEW-SKEY TO OLD-SKEY.
031200     MOVE IN-BLM-ADM-U TO NEW-SKEY.
031300 250-SKEY-TO-HDR.
031400     MOVE 0003 TO DE-NO-8801-DEC.
031500     MOVE IN-BLM-ADM-U TO DE-CD-8822-DEC.
031600     FIND ANY CODE-DEC.
031700     IF DB-STATUS NOT = ZERO
031800         DISPLAY "BAD STATE CODE"  CALL "ABOR".
031900     GET CODE-DEC.
032000     MOVE DE-CD-NAM-8823-DEC TO DE-CD-NAM-8823-DEC-H.
032100     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
032200     IF DB-STATUS NOT = ZERO
032300         DISPLAY "ST-DIST-RA-PLU IS " IN-BLM-ADM-U
032400         DISPLAY "BAD DIST, RA, PLU CODES"  CALL "ABOR".
032500     GET CODE-EXPL-DECE.
032600     MOVE DE-CD-EXPLN-8827-DECE TO DE-CD-EXPLN-8827-DECE-H.
032700     MOVE ST-NAM-H TO STATE-NAME.
032800     MOVE RA-NAM-H TO RA-NAME.
032900     MOVE DIST-NAM-H TO DIST-NAME.
033000     MOVE PLU-NAM-H TO PU-NAME.
033100 260-TOP-PAGE.
033200     ADD 1 TO PG-CNT.
033300     MOVE PG-CNT TO PAGE-NO.
033400     IF PG-CNT = 1
033500         DISPLAY PAG-HDR-1
033600         DISPLAY PAG-HDR-3
033700         DISPLAY PAG-HDR-4
033800         DISPLAY PAG-HDR-5
033900         DISPLAY PAG-HDR-6
034000         DISPLAY SPACES
034100         DISPLAY COL-HDR-1
034200         DISPLAY SPACES.
034300     WRITE PRINT-LINE FROM PAG-HDR-1
034400         AFTER ADVANCING PAGE.
034500     WRITE PRINT-LINE FROM PAG-HDR-3
034600         AFTER ADVANCING 1 LINE.
034700     WRITE PRINT-LINE FROM PAG-HDR-4
034800         AFTER ADVANCING 1 LINE.
034900     WRITE PRINT-LINE FROM PAG-HDR-5
035000         AFTER ADVANCING 1 LINE.
035100     WRITE PRINT-LINE FROM PAG-HDR-6
035200         AFTER ADVANCING 1 LINE.
035300     WRITE PRINT-LINE FROM COL-HDR-1
035400         AFTER ADVANCING 2 LINES.
035500     WRITE PRINT-LINE FROM WORK-SPACES
035600         AFTER ADVANCING 2 LINE.
035700     MOVE 9 TO LINE-COUNT.
035800 300-PERCENT-ADD.
035900     IF IN-TRN-NUM EQUAL ZERO
036000         MOVE 1 TO ZERO-CONDITION
036100     ELSE ADD 1 TO TRAN-INDX
036200         IF TRAN-INDX GREATER 100
036300             DISPLAY "MORE THAN 100 TRANSECTS PER STRATUM"
036400             STOP RUN
036500     ELSE
036600         MOVE IN-TRN-NUM TO SAVE-TRANSECT (TRAN-INDX).
036700     ADD IN-SWA-PCT TO PERCENT-ACCUL.

```



```

036800 310-MOVE-TO-PRINT.
036900     MOVE PERCENT-ACCUL TO PCT-SWA-P.
037000     MOVE WS-STRATUM-NUM TO STRATUM-P.
037100     MOVE WS-RNG-SITE-ID TO RNG-SITE-P.
037200     MOVE DATA-LINE-1 TO WORK-PRINT.
037300 320-WRITE-PRINT.
037400     IF LINE-COUNT GREATER 54
037500         PERFORM 260-TOP-PAGE.
037600     IF PG-CNT = 1
037700         DISPLAY WORK-PRINT.
037800     WRITE PRINT-LINE FROM WORK-PRINT
037900         AFTER ADVANCING 1 LINE.
038000     ADD 1 TO LINE-COUNT.
038100 330-MOVE-WRITE-FILE.
038200     MOVE PERCENT-ACCUL TO OT-SWA-PERCENT.
038300     MOVE WS-BLM-ADM-U TO OT-ST-DIST-RA-PLU.
038400     MOVE WS-SWA TO OT-SWA.
038500     MOVE WS-RNG-SITE-ID TO OT-RANGE-SITE.
038600     MOVE WS-STRATUM-NUM TO OT-STRATUM.
038700     MOVE WS-RNG-ECOL-COND-CLS TO OT-COND-CLS.
038800     MOVE WS-ALLOT-NUM TO OT-ALLOTMENT.
038900     IF WS-PASTURE-NUM EQUAL SPACES
039000         MOVE ZEROS TO OT-PASTURE
039100     ELSE MOVE WS-PASTURE-NUM TO OT-PASTURE.
039200     MOVE WS-CLMTC-ADJ-FCTR TO OT-CLIMATIC-ADJ-FCTR.
039300     PERFORM 340-MOVE-TRANSECTS THRU 349-EXIT.
039400     MOVE ZERO TO TRAN-INDX.
039500     MOVE ZERO TO TRANS-CNT.
039600     MOVE ZERO TO ZERO-CONDITION.
039700 340-MOVE-TRANSECTS.
039800     IF ZERO-TRANSECT
039900         MOVE ZEROS TO OT-TRANSECT
040000         PERFORM 350-WRITE-SWA-REC.
040100 345-TRANS-LOOP.
040200     ADD 1 TO TRANS-CNT.
040300     IF TRANS-CNT GREATER TRAN-INDX
040400         GO TO 349-EXIT.
040500     MOVE SAVE-TRANSECT (TRANS-CNT) TO OT-TRANSECT
040600     PERFORM 350-WRITE-SWA-REC.
040700     GO TO 345-TRANS-LOOP.
040800 349-EXIT.
040900     EXIT.
041000 350-WRITE-SWA-REC.
041100     WRITE SWA-REC.
041200     ADD 1 TO WRITE-COUNT.
041300 500-MOVE-ALLOT.
041400     MOVE IN-ALLOT-NUM TO SAVE-ALLOT.
041500 510-MOVE-PASTURE.
041600     MOVE WORK-PASTURE TO SAVE-PASTURE.
041700 520-MOVE-SWA.
041800     MOVE IN-SWA TO SAVE-SWA.
041900 610-EXCHANGE.
042000     MOVE IN-RECORD TO WS-IN-RECORD.
042100     MOVE WORK-PASTURE TO WS-PASTURE-NUM.
042200 700-SAVE-TO-LINE.
042300     MOVE SAVED-DATA TO DATA-LINE-2.
042400     MOVE SPACES TO SAVED-DATA.

```

```

042500 710-1ST-LINE-MOVE.
042600     MOVE WS-ALLOT-NUM TO ALLOT-P.
042700     MOVE WS-PASTURE-NUM TO PASTURE-P.
042800     MOVE WS-SWA TO SWA-P.
042900 900-WRAPUP.
043000     MOVE SAVED-DATA TO DATA-LINE-2.
043100     IF LINE-COUNT GREATER 54
043200         MOVE WS-ALLOT-NUM TO ALLOT-P
043300         MOVE WS-PASTURE-NUM TO PASTURE-P
043400         MOVE WS-SWA TO SWA-P.
043500     PERFORM 310-MOVE-TO-PRINT THRU 330-MOVE-WRITE-FILE.
043600     FINISH DIC-DE.
043700     DISPLAY READ-COUNT " RECORDS READ".
043800     DISPLAY READ-COUNT-VB " VB RECORDS READ".
043900     DISPLAY WRITE-COUNT " RECORDS WRITTEN".
044000     CLOSE INPUT-FILE PRINT-OUT SWA-FILE.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES524Z.
000300*     STOCKING RATE FILE BUILD.
000400*
000500 AUTHOR. RON BAKER.
000600 DATE-WRITTEN. NOV 81.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400     SELECT ACRE-FILE ASSIGN TO I1
001500         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600     SELECT STRATUM-FILE ASSIGN TO I2
001700         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800     SELECT VM-FILE ASSIGN TO I3
001900         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000     SELECT ACRE-WORK-FILE ASSIGN TO W1
002100         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002200     SELECT STRATUM-WORK-FILE ASSIGN TO W2
002300         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002400     SELECT OWNER-WORK-FILE ASSIGN TO W3
002500         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002600     SELECT STOCKING-FILE ASSIGN TO D1
002700         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002800     SELECT SORT-FILE ASSIGN TO S1 S2 S3.
002900     SELECT SORT-FILE-2 ASSIGN TO S1 S2 S3.
003000     SELECT SORT-FILE-3 ASSIGN TO S1 S2 S3.
003100     SELECT SORT-FILE-4 ASSIGN TO S1 S2 S3.
003200 DATA DIVISION.
003300 FILE SECTION.
003400 FD STOCKING-FILE
003500     CODE-SET IS GBCD
003600     LABEL RECORD IS STANDARD.
003700 01 STOCKING-REC.
003800     03 ADM-UNIT-D1.
003900         05 ST-D1           PIC X(02).
004000         05 DIS-D1         PIC X(02).

```

004100 05 RA-D1 PIC X(02).  
004200 05 PLU-D1 PIC X(02).  
004300 03 ALLOT-D1.  
004400 05 ALLOT-NUM-D1 PIC X(04).  
004500 05 PAST-NUM-D1 PIC X(02).  
004600 03 STRATUM-D1 PIC X(04).  
004700 03 RNG-SITE-D1 PIC X(11).  
004800 03 SWA-D1 PIC X(04).  
004900 03 COND-CLS-D1 PIC X(01).  
005000 03 ACRES-SWA-TOT-D1 PIC 9(06).  
005100 03 ACRES-OWNER-STRATUM-TOT-D1 PIC 9(06).  
005200 03 ACRES-STRATUM-SUM-D1 PIC 9(06).  
005300 03 PCT-OWNER-SWA-D1 PIC 9(03)V99.  
005400 03 FILLER PIC XX.  
005500 03 OWNER-D1 PIC X(04).  
005600 03 JURIS-D1 PIC X(04).  
005700 03 MGT-ADM-D1 PIC X(04).  
005800 03 LAND-TYP-D1 PIC X(04).  
005900 03 FILLER PIC X(03).  
006000 03 STOCK-RATE-KEY-D1 PIC X.  
006100 03 STOCKING-RATE-GRP-D1.  
006200 05 STOCKING-RATE-D1 PIC X(05) OCCURS 5 TIMES.  
006300 03 FILLER PIC X(04).  
006400 FD ACRE-FILE  
006500 CODE-SET IS GBCD  
006600 LABEL RECORDS ARE STANDARD.  
006700 01 ACRE-REC.  
006800 03 REC-I1.  
006900 05 REC-TYP-I1 PIC X(02).  
007000 05 FMT-NUM-I1 PIC X.  
007100 05 FMT-CD-I1 PIC X.  
007200 03 ADM-UNIT-I1.  
007300 05 ST-I1 PIC X(02).  
007400 05 DIS-I1 PIC X(02).  
007500 05 RA-I1 PIC X(02).  
007600 05 PLU-I1 PIC X(02).  
007700 03 ALLOT-I1.  
007800 05 ALLOT-NUM-I1 PIC X(04).  
007900 05 PAST-NUM-I1 PIC X(02).  
008000 03 DATE-I1 PIC X(06).  
008100 03 ACT-I1 PIC X(01).  
008200 03 MAP-SRC-I1 PIC X(04).  
008300 03 MTR-MER-CD-I1 PIC X(02).  
008400 03 LINE-I1 PIC X(04).  
008500 03 MTR-TWN-I1 PIC X(05).  
008600 03 MTR-RNG-I1 PIC X(05).  
008700 03 SEC-I1 PIC X(03).  
008800 03 SWA-I1 PIC X(04).  
008900 03 ALIQ-PART-I1 PIC X(16).  
009000 03 ACRES-I1 PIC 9(05).  
009100 03 OWNER-I1 PIC X(04).  
009200 03 JURIS-I1 PIC X(04).  
009300 03 MGT-ADM-I1 PIC X(04).  
009400 03 LAND-TYP-I1 PIC X(04).  
009500 03 FILLER PIC X(01).  
009600 FD ACRE-WORK-FILE  
009700 CODE-SET IS GBCD

009800 LABEL RECORD IS STANDARD.  
009900 01 ACRE-WORK-REC.  
010000 03 ADM-UNIT-W1.  
010100 05 ST-W1 PIC X(02).  
010200 05 DIS-W1 PIC X(02).  
010300 05 RA-W1 PIC X(02).  
010400 05 PLU-W1 PIC X(02).  
010500 03 ALLOT-W1.  
010600 05 ALLOT-NUM-W1 PIC X(04).  
010700 05 PAST-NUM-W1 PIC X(02).  
010800 03 SWA-W1 PIC X(04).  
010900 03 ACRES-SWA-TOT-W1 PIC 9(06).  
011000 03 ACRES-OWNER-TOT-W1 PIC 9(06).  
011100 03 PCT-OWNER-SWA-W1 PIC 9(03)V99.  
011200 03 FILLER PIC XX.  
011300 03 OWNER-W1 PIC X(04).  
011400 03 JURIS-W1 PIC X(04).  
011500 03 MGT-ADM-W1 PIC X(04).  
011600 03 LAND-TYP-W1 PIC X(04).  
011700 03 FILLER PIC X.  
011800 FD OWNER-WORK-FILE  
011900 CODE-SET IS GBCD  
012000 LABEL RECORD IS STANDARD.  
012100 01 OWNER-WORK-REC.  
012200 03 ADM-UNIT-W3.  
012300 05 SD-W3.  
012400 07 ST-W3 PIC X(02).  
012500 07 DIS-W3 PIC X(02).  
012600 05 RA-W3 PIC X(02).  
012700 05 PLU-W3 PIC X(02).  
012800 03 ALLOT-W3.  
012900 05 ALLOT-NUM-W3 PIC X(04).  
013000 05 PAST-NUM-W3 PIC X(02).  
013100 03 STRATUM-W3 PIC X(04).  
013200 03 RNG-SITE-W3 PIC X(11).  
013300 03 SWA-W3 PIC X(04).  
013400 03 COND-CLS-W3 PIC X(01).  
013500 03 ACRES-SWA-TOT-W3 PIC 9(06).  
013600 03 ACRES-OWNER-STRATUM-TOT-W3 PIC 9(06).  
013700 03 ACRES-STRATUM-SUM-W3 PIC 9(06).  
013800 03 PCT-OWNER-SWA-W3 PIC 9(03)V99.  
013900 03 FILLER PIC XX.  
014000 03 OWNER-W3 PIC X(04).  
014100 03 JURIS-W3 PIC X(04).  
014200 03 MGT-ADM-W3 PIC X(04).  
014300 03 LAND-TYP-W3 PIC X(04).  
014400 03 FILLER PIC X(03).  
014500 FD STRATUM-FILE  
014600 CODE-SET IS GBCD  
014700 LABEL RECORD IS STANDARD.  
014800 01 STRATUM-REC.  
014900 03 ADM-UNIT-I2.  
015000 05 ST-I2 PIC X(02).  
015100 05 DIS-I2 PIC X(02).  
015200 05 RA-I2 PIC X(02).  
015300 05 PLU-I2 PIC X(02).  
015400 03 SWAT-I2.

015500		05 SWA-I2	PIC X(4).
015600		05 TRANS-I2	PIC 99.
015700	03	RNG-SITE-I2	PIC X(11).
015800	03	STRATUM-I2	PIC 9(4).
015900	03	PCT-SWA-I2	PIC 9(03).
016000	03	ALLOT-I2.	
016100		05 ALLOT-NUM-I2	PIC X(04).
016200		05 PAST-NUM-I2	PIC X(02).
016300	03	COMP-AREA-I2	PIC X.
016400	03	CLIM-ADJ-FCTR-I2	PIC 99V999.
016500	03	COND-CLS-I2	PIC X.
016600	03	FILLER	PIC X(3).
016700	FD	VM-FILE	
016800		CODE-SET IS GBCD	
016900		LABEL RECORD IS STANDARD.	
017000	01	VM-REC.	
017100	03	REC-I3.	
017200		05 REC-TYP-I3	PIC X(02).
017300		05 FMT-NUM-I3	PIC X.
017400		05 FMT-CD-I3	PIC X.
017500	03	ADM-UNIT-I3.	
017600		05 SD-I3.	
017700		07 ST-I3	PIC X(02).
017800		07 DIS-I3	PIC X(02).
017900	03	DATE-I3	PIC X(06).
018000	03	ACT-I3	PIC X.
018100	03	STOCK-RATE-KEY-I3	PIC 9.
018200	03	RNG-SITE-I3	PIC X(11).
018300	03	STOCKING-RATE-GRP-I3.	
018400		05 STOCKING-RATE-I3	PIC X(05) OCCURS 5 TIMES.
018500	03	FILLER	PIC X(32).
018600	FD	STRATUM-WORK-FILE	
018700		CODE-SET IS GBCD	
018800		LABEL RECORD IS STANDARD.	
018900	01	STRATUM-WORK-REC.	
019000	03	ADM-UNIT-W2.	
019100		05 ST-W2	PIC X(02).
019200		05 DIS-W2	PIC X(02).
019300		05 RA-W2	PIC X(02).
019400		05 PLU-W2	PIC X(02).
019500	03	SWAT-W2.	
019600		05 SWA-W2	PIC X(4).
019700		05 TRANS-W2	PIC 99.
019800	03	RNG-SITE-W2	PIC X(11).
019900	03	STRATUM-W2	PIC 9(4).
020000	03	PCT-SWA-TOT-W2	PIC 9(03).
020100	03	ALLOT-W2.	
020200		05 ALLOT-NUM-W2	PIC X(04).
020300		05 PAST-NUM-W2	PIC X(02).
020400	03	COMP-AREA-I2	PIC X.
020500	03	CLIM-ADJ-FCTR-I2	PIC 99V999.
020600	03	COND-CLS-W2	PIC X.
020700	03	FILLER	PIC X(03).
020800	SD	SORT-FILE	
020900		DATA RECORD IS SORT-REC.	
021000	01	SORT-REC.	
021100	03	SORT-KEY-SK1.	

021200 05 ADM-UNIT-SK1 PIC X(08).  
021300 05 ALLOT-SK1.  
021400 07 ALLOT-NUM-SK1 PIC X(04).  
021500 07 PAST-NUM-SK1 PIC X(02).  
021600 05 SWA-SK1 PIC X(04).  
021700 05 KEY-SK1 PIC 9.  
021800 05 OWNER-SK1 PIC X(04).  
021900 03 DATA-SK1.  
022000 05 FILLER PIC X(68).  
022100 05 ACRES-SK1 PIC 9(05).  
022200 05 FILLER PIC X(17).  
022300 SD SORT-FILE-2  
022400 DATA RECORD IS SORT-REC-2.  
022500 01 SORT-REC-2.  
022600 03 SORT-KEY-SK2.  
022700 05 ADM-UNIT-SK2 PIC X(08).  
022800 05 ALLOT-SK2.  
022900 07 ALLOT-NUM-SK2 PIC X(04).  
023000 07 PAST-NUM-SK2 PIC X(02).  
023100 05 STRATUM-SK2 PIC X(04).  
023200 05 SWAT-SK2 PIC X(06).  
023300 03 DATA-SK2 PIC X(48).  
023400 SD SORT-FILE-3  
023500 DATA RECORD IS SORT-REC-3.  
023600 01 SORT-REC-3.  
023700 03 SORT-KEY-SK3.  
023800 05 SWA-CNTL-SK3.  
023900 07 ADM-UNIT-SK3 PIC X(08).  
024000 07 ALLOT-SK3.  
024100 09 ALLOT-NUM-SK3 PIC X(04).  
024200 09 PAST-NUM-SK3 PIC X(02).  
024300 07 SWA-SK3 PIC X(04).  
024400 05 STRATUM-SK3 PIC X(04).  
024500 03 DATA-SK3.  
024600 05 FILLER PIC X(29).  
024700 05 PCT-SWA-TOT-SK3 PIC 9(03).  
024800 05 FILLER PIC X(12).  
024900 05 COND-CLS-SK3 PIC X.  
025000 05 FILLER PIC X(03).  
025100 SD SORT-FILE-4  
025200 DATA RECORD IS SORT-REC-4.  
025300 01 SORT-REC-4.  
025400 03 SORT-KEY-SK4.  
025500 05 CNTL-SK4.  
025600 07 RNG-SITE-SK4 PIC X(11).  
025700 07 STRATUM-SK4 PIC X(04).  
025800 07 ALLOT-SK4.  
025900 09 ALLOT-NUM-SK4 PIC X(04).  
026000 09 PAST-NUM-SK4 PIC X(02).  
026100 05 KEY-SK4 PIC 9.  
026200 03 DATA-SK4.  
026300 05 FILLER PIC X(46).  
026400 05 ACRES-STRATUM-SUM-SK4 PIC 9(06).  
026500 05 FILLER PIC X(56).  
026600 WORKING-STORAGE SECTION.  
026700 77 PAGE-NO COMP-4 PIC 9(6) VALUE 0.  
026800 77 TEST-CNT-1 PIC 9(8) VALUE ZERO.

026900 77 TEST-CNT-2 PIC 9(8) VALUE ZERO.  
027000 77 CNTL-SK4-HLD PIC X(21) VALUE SPACE.  
027100 77 KEY-PREV PIC 9 VALUE ZERO.  
027200 77 SK1-SW PIC 9 VALUE ZERO.  
027300 77 SK2-SW PIC 9 VALUE ZERO.  
027400 77 SK3-SW PIC 9 VALUE ZERO.  
027500 77 END-SW PIC 9 VALUE ZERO.  
027600 77 SUB PIC 99 VALUE ZERO.  
027700 77 OWNER-SW PIC 9 VALUE ZERO.  
027800 77 SWA-SW PIC 9 VALUE ZERO.  
027900 77 X COMP-4 PIC 9 VALUE 0.  
028000 77 Y COMP-4 PIC 9 VALUE 0.  
028100 77 ACRES-SWA-TOT-HLD PIC 9(06) VALUE ZERO.  
028200 77 ACRES-OWNER-TOT-HLD PIC 9(08) VALUE ZERO.  
028300 77 ACRES-STRATUM-SUM-HLD PIC 9(06) VALUE ZERO.  
028400 77 ACRES-OWNER-SWA-STRATUM-HLD PIC 9(06) VALUE ZERO.  
028500 01 CNTL-W3-HLD.  
028600 03 RNG-SITE-W3-HLD PIC X(11).  
028700 03 STRATUM-W3-HLD PIC X(04).  
028800 03 ALLOT-W3-HLD.  
028900 05 ALLOT-NUM-W3-HLD PIC X(04).  
029000 05 PAST-NUM-W3-HLD PIC X(02).  
029100 01 PCT-SWA-STRATUM-TOT-HLD PIC 9(03)V99 VALUE ZERO.  
029200 01 PCT-SWA-STRATUM-RD REDEFINES PCT-SWA-STRATUM-TOT-HLD  
029300 PIC 9V9999.  
029400 01 PCT-SWA-OWNER-HLD PIC 9(03)V99 VALUE ZERO.  
029500 01 PCT-SWA-OWNER-RD REDEFINES PCT-SWA-OWNER-HLD  
029600 PIC 9V9999.  
029700 01 PCT-SWA-OWNER-STRATUM-HLD PIC 9(03)V99 VALUE ZERO.  
029800 01 PCT-SWA-OWNER-STRATUM-RD REDEFINES PCT-SWA-OWNER-STRATUM-HLD  
029900 PIC 9V9999.  
030000 01 ACRE-CNTL-HLD.  
030100 03 ADM-UNIT-ACRE-CNTL.  
030200 05 ST-ACRE-CNTL PIC X(02).  
030300 05 DIS-ACRE-CNTL PIC X(02).  
030400 05 RA-ACRE-CNTL PIC X(02).  
030500 05 PLU-ACRE-CNTL PIC X(02).  
030600 03 ALLOT-ACRE-CNTL.  
030700 05 ALLOT-NUM-ACRE-CNTL PIC X(04).  
030800 05 PAST-NUM-ACRE-CNTL PIC X(02).  
030900 03 SWA-ACRE-CNTL PIC X(04).  
031000 01 STRATUM-CNTL-HLD.  
031100 03 SWA-CNTL-HLD.  
031200 05 ADM-UNIT-SWA-CNTL.  
031300 07 ST-SWA-CNTL PIC X(02).  
031400 07 DIS-SWA-CNTL PIC X(02).  
031500 07 RA-SWA-CNTL PIC X(02).  
031600 07 PLU-SWA-CNTL PIC X(02).  
031700 05 ALLOT-SWA-CNTL.  
031800 07 ALLOT-NUM-SWA-CNTL PIC X(04).  
031900 07 PAST-NUM-SWA-CNTL PIC X(02).  
032000 05 SWA-SWA-CNTL PIC X(04).  
032100 03 STRATUM-SWA-CNTL PIC X(04).  
032200 01 SWR-TABLE.  
032300 03 SWR-TAB PIC X(48) OCCURS 30 TIMES.  
032400 01 ACRE-SORT-REC-HLD.  
032500 03 FILLER PIC X(04).

032600	03	ADM-UNIT-H1.		
032700		05 ST-H1	PIC X(02).	
032800		05 DIS-H1	PIC X(02).	
032900		05 RA-H1	PIC X(02).	
033000		05 PLU-H1	PIC X(02).	
033100	03	ALLOT-H1.		
033200		05 ALLOT-NUM-H1	PIC X(04).	
033300		05 PAST-NUM-H1	PIC X(02).	
033400	03	FILLER	PIC X(30).	
033500	03	SWA-H1	PIC X(04).	
033600	03	FILLER	PIC X(16).	
033700	03	ACRES-H1	PIC 9(05).	
033800	03	OWNER-H1	PIC X(04).	
033900	03	JURIS-H1	PIC X(04).	
034000	03	MGT-ADM-H1	PIC X(04).	
034100	03	LAND-TYP-H1	PIC X(04).	
034200	03	FILLER	PIC X(01).	
034300	01	STRATUM-SORT-REC-HLD.		
034400	03	ADM-UNIT-H2.		
034500		05 ST-H2	PIC X(02).	
034600		05 DIS-H2	PIC X(02).	
034700		05 RA-H2	PIC X(02).	
034800		05 PLU-H2	PIC X(02).	
034900	03	SWAT-H2.		
035000		05 SWA-H2	PIC X(4).	
035100		05 TRANS-H2	PIC 99.	
035200	03	RNG-SITE-H2	PIC X(11).	
035300	03	STRATUM-H2	PIC 9(4).	
035400	03	PCT-SWA-H2	PIC 9(03).	
035500	03	ALLOT-H2.		
035600		05 ALLOT-NUM-H2	PIC X(04).	
035700		05 PAST-NUM-H2	PIC X(02).	
035800	03	COMP-AREA-H2	PIC X.	
035900	03	CLIM-ADJ-FCTR-H2	PIC 99V999.	
036000	03	COND-CLS-H2	PIC X.	
036100	03	FILLER-H2	PIC X(3).	
036200	01	VM-H3.		
036300	03	REC-H3.		
036400		05 REC-TYP-H3	PIC X(02).	
036500		05 FMT-NUM-H3	PIC X.	
036600		05 FMT-CD-H3	PIC X.	
036700	03	ADM-UNIT-H3.		
036800		05 ST-H3	PIC X(02).	
036900		05 DIS-H3	PIC X(02).	
037000	03	DATE-H3	PIC X(06).	
037100	03	ACT-H3	PIC X.	
037200	03	STOCK-RATE-KEY-H3	PIC 9.	
037300	03	RNG-SITE-H3	PIC X(11).	
037400	03	STOCKING-RATE-GRP-H3.		
037500		05 STOCKING-RATE-H3	PIC X(05) OCCURS 5 TIMES.	
037600	03	FILLER	PIC X(32).	
037700	01	STOCKING-REC-H5.		
037800	03	OWNER-DATA.		
037900		05 ADM-UNIT-H5.		
038000		07 ST-H5	PIC X(02).	
038100		07 DIS-H5	PIC X(02).	
038200		07 RA-H5	PIC X(02).	



038300           07 PLU-H5           PIC X(02).  
038400           05 ALLOT-NUM-H5        PIC X(04).  
038500           05 PAST-NUM-H5           PIC X(02).  
038600           05 STRATUM-H5        PIC X(04).  
038700           05 RNG-SITE-H5        PIC X(11).  
038800           05 SWA-H5            PIC X(04).  
038900           05 COND-CLS-H5        PIC X(01).  
039000           05 ACRES-SWA-TOT-H5    PIC 9(06).  
039100           05 ACRES-OWNER-STRATUM-TOT-H5 PIC 9(06).  
039200           05 ACRES-STRATUM-SUM-H5    PIC 9(06).  
039300           05 PCT-OWNER-SWA-H5        PIC 9(03)V99.  
039400           05 FILLER            PIC XX.  
039500           05 OWNER-H5            PIC X(04).  
039600           05 JURIS-H5            PIC X(04).  
039700           05 MGT-ADM-H5            PIC X(04).  
039800           05 LAND-TYP-H5        PIC X(04).  
039900           05 FILLER            PIC X(03).  
040000           03 STOCK-RATE-KEY-H5    PIC 9.  
040100           03 STOCKING-RATE-GRP-H5.  
040200           05 STOCKING-RATE-H5    PIC X(05) OCCURS 5 TIMES.  
040300           03 FILLER            PIC X(4).  
040400 01 HOLD-AREA.  
040500           03 BLM-ADM-HOLD.  
040600           05 ST-HOLD            PIC XX.  
040700           05 DT-HOLD            PIC XX.  
040800           05 RA-HOLD            PIC XX.  
040900           05 PLU-HOLD            PIC XX.  
041000           03 ALLOT-NUM-HOLD        PIC X(4).  
041100           03 PASTURE-NUM-HOLD        PIC XX.  
041200           03 MAP-SRC-HOLD        PIC X(4).  
041300           03 MTR-MER-CD-HOLD        PIC XX.  
041400 01 DATE-HOLD.  
041500           03 YEAR-H            PIC 99.  
041600           03 MON-H            PIC 99.  
041700           03 DAY-H            PIC 99.  
041800 01 MONTH-TABLE            PIC X(36) VALUE  
041900           "JANFEBMARAPRMAYJUNJULAUGSEPOCTNOVDEC".  
042000 01 MONTH-LINE REDEFINES MONTH-TABLE.  
042100           03 ALPHA-MONTH            PIC X(3) OCCURS 12.  
042200 01 HOLD-AREA.  
042300           03 FUNC-HOLD.  
042400           04 STATE-NAME            PIC X(10).  
042500           04 FILLER            PIC X(14).  
042600           03 EXPL-HOLD.  
042700           04 DIST-NAME            PIC X(10).  
042800           04 FILLER            PIC X.  
042900           04 RA-NAME            PIC X(12).  
043000           04 FILLER            PIC X.  
043100           04 PLU-NAME            PIC X(15).  
043200           04 FILLER            PIC X.  
043300           03 DIST-H            PIC XX.  
043400 01 STOCK-RATE-HLD.  
043500           03 SRH            PIC X OCCURS 5 TIMES.  
043600 COPY DBSTATUS OF TPCOBOLIB.  
043700 PROCEDURE DIVISION.  
043800 005-START SECTION.  
043900 010-SORT-ACRES.

```

044000     SORT SORT-FILE ON ASCENDING KEY
044100         SORT-KEY-SK1
044200             INPUT PROCEDURE IS ACRE-SORT-INPUT
044300             OUTPUT PROCEDURE IS ACRE-SUM-OUTPUT.
044400 020-SORT-STRATUM.
044500     SORT SORT-FILE-2 ON ASCENDING KEY
044600         SORT-KEY-SK2
044700             INPUT PROCEDURE IS STRATUM-SORT-INPUT
044800             OUTPUT PROCEDURE IS STRATUM-SUM-OUTPUT.
044900 025-SORT-SWA.
045000     SORT SORT-FILE-3 ON ASCENDING KEY
045100         SORT-KEY-SK3
045200             INPUT PROCEDURE IS SWA-SORT-INPUT
045300             OUTPUT PROCEDURE IS OWNER-SUM-OUTPUT.
045400 027-SORT-OWNER-STOCKING.
045500     SORT SORT-FILE-4 ON ASCENDING KEY
045600         SORT-KEY-SK4
045700             INPUT PROCEDURE IS RNG-SITE-SORT-INPUT
045800             OUTPUT PROCEDURE IS STOCKING-SUM-OUTPUT.
045900 029-END.
046000     CLOSE STOCKING-FILE.
046100     DISPLAY "END JOB".
046200     STOP RUN.
046300 ACRE-SORT-INPUT SECTION.
046400 030-OPEN.
046500     OPEN INPUT ACRE-FILE.
046600 035-READ-ACRE.
046700     READ ACRE-FILE
046800         AT END GO TO 030-EXIT.
046900     IF PAST-NUM-I1 = SPACE
047000         MOVE ZERO TO PAST-NUM-I1.
047100*     ADD 1 TO TEST-CNT-1.
047200*     IF TEST-CNT-1 = 200 GO TO 030-EXIT.
047300*     DISPLAY "AR = " ACRE-REC.
047400     MOVE ADM-UNIT-I1 TO ADM-UNIT-SK1.
047500     MOVE ALLOT-I1 TO ALLOT-SK1.
047600     MOVE SWA-I1 TO SWA-SK1.
047700     MOVE SPACE TO OWNER-SK1.
047800     MOVE ACRE-REC TO DATA-SK1.
047900     MOVE 1 TO KEY-SK1.
048000     RELEASE SORT-REC.
048100     MOVE ADM-UNIT-I1 TO ADM-UNIT-SK1.
048200     MOVE ALLOT-I1 TO ALLOT-SK1.
048300     MOVE SWA-I1 TO SWA-SK1.
048400     MOVE OWNER-I1 TO OWNER-SK1.
048500     MOVE ACRE-REC TO DATA-SK1.
048600     MOVE 2 TO KEY-SK1.
048700     RELEASE SORT-REC.
048800     GO TO 035-READ-ACRE.
048900 030-EXIT.
049000     EXIT.
049100 ACRE-SUM-OUTPUT SECTION.
049200 040-OPEN.
049300     OPEN OUTPUT ACRE-WORK-FILE.
049400     INITIALIZE ACRE-SORT-REC-HLD.
049500     INITIALIZE ACRE-WORK-REC.
049600     CLOSE ACRE-FILE.

```

```

049700 045-RETURN.
049800     RETURN SORT-FILE
049900         AT END
050000             MOVE 1 TO SK1-SW
050100             GO TO 050-SUM.
050200*    DISPLAY "SR1= " SORT-REC.
050300     IF ADM-UNIT-H1 = SPACE
050400         MOVE ADM-UNIT-SK1 TO ADM-UNIT-H1
050500         MOVE ALLOT-SK1 TO ALLOT-H1
050600         MOVE SWA-SK1 TO SWA-H1.
050700     IF (ADM-UNIT-SK1 NOT = ADM-UNIT-H1) OR
050800         (ALLOT-SK1 NOT = ALLOT-H1) OR
050900         (SWA-SK1 NOT = SWA-H1)
051000         GO TO 050-SUM.
051100     IF KEY-SK1 = 1
051200         ADD ACRES-SK1 TO ACRES-SWA-TOT-HLD
051300         GO TO 045-RETURN.
051400     IF OWNER-H1 = SPACE
051500         MOVE OWNER-SK1 TO OWNER-H1.
051600     IF OWNER-SK1 = OWNER-H1
051700         ADD ACRES-SK1 TO ACRES-OWNER-TOT-HLD
051800         MOVE DATA-SK1 TO ACRE-SORT-REC-HLD
051900         GO TO 045-RETURN.
052000     MOVE 1 TO OWNER-SW.
052100 050-SUM.
052200     MOVE ADM-UNIT-H1 TO ADM-UNIT-W1.
052300     MOVE ALLOT-NUM-H1 TO ALLOT-NUM-W1.
052400     MOVE PAST-NUM-H1 TO PAST-NUM-W1.
052500     MOVE SWA-H1 TO SWA-W1.
052600     MOVE OWNER-H1 TO OWNER-W1.
052700     MOVE JURIS-H1 TO JURIS-W1.
052800     MOVE MGT-ADM-H1 TO MGT-ADM-W1.
052900     MOVE LAND-TYP-H1 TO LAND-TYP-W1.
053000     MOVE ACRES-OWNER-TOT-HLD TO ACRES-OWNER-TOT-W1.
053100     MOVE ACRES-SWA-TOT-HLD TO ACRES-SWA-TOT-W1.
053200     MULTIPLY 100 BY ACRES-OWNER-TOT-HLD.
053300     DIVIDE ACRES-OWNER-TOT-HLD BY
053400         ACRES-SWA-TOT-HLD GIVING PCT-OWNER-SWA-W1 ROUNDED.
053500     MOVE ZERO TO ACRES-OWNER-TOT-HLD.
053600*    DISPLAY "AWR= " ACRE-WORK-REC.
053700     WRITE ACRE-WORK-REC.
053800     INITIALIZE ACRE-WORK-REC.
053900     IF SK1-SW = 1 GO TO 040-EXIT.
054000     IF OWNER-SW = 1
054100         MOVE ZERO TO OWNER-SW
054200         MOVE ACRES-SK1 TO ACRES-OWNER-TOT-HLD
054300         MOVE DATA-SK1 TO ACRE-SORT-REC-HLD
054400         GO TO 045-RETURN.
054500     MOVE ACRES-SK1 TO ACRES-SWA-TOT-HLD.
054600     MOVE DATA-SK1 TO ACRE-SORT-REC-HLD.
054700     MOVE SPACE TO OWNER-H1.
054800     GO TO 045-RETURN.
054900 040-EXIT.
055000     EXIT.
055100 STRATUM-SORT-INPUT SECTION.
055200 060-OPEN.
055300     OPEN INPUT STRATUM-FILE.

```

```

055400     CLOSE ACRE-WORK-FILE.
055500 060-READ-STRATUM.
055600     READ STRATUM-FILE
055700         AT END GO TO 060-EXIT.
055800     IF PAST-NUM-I2 = SPACE
055900         MOVE ZERO TO PAST-NUM-I2.
056000*    ADD 1 TO TEST-CNT-2.
056100*    IF TEST-CNT-2 = 200 GO TO 060-EXIT.
056200*    DISPLAY "STRAT-REC= " STRATUM-REC.
056300     MOVE ADM-UNIT-I2 TO ADM-UNIT-SK2.
056400     MOVE ALLOT-I2 TO ALLOT-SK2.
056500     MOVE SWAT-I2 TO SWAT-SK2.
056600     MOVE STRATUM-I2 TO STRATUM-SK2.
056700     MOVE STRATUM-REC TO DATA-SK2.
056800     RELEASE SORT-REC-2.
056900     GO TO 060-READ-STRATUM.
057000 060-EXIT.
057100     EXIT.
057200 STRATUM-SUM-OUTPUT SECTION.
057300 070-OPEN.
057400     OPEN OUTPUT STRATUM-WORK-FILE.
057500     CLOSE STRATUM-FILE.
057600     INITIALIZE STRATUM-SORT-REC-HLD.
057700 075-RETURN.
057800     RETURN SORT-FILE-2
057900         AT END
058000             MOVE 1 TO SK2-SW
058100             GO TO 075-SUM.
058200*    DISPLAY "SR2= " SORT-REC-2.
058300     IF ADM-UNIT-H2 = SPACE
058400         MOVE ADM-UNIT-SK2 TO ADM-UNIT-H2
058500         MOVE ALLOT-SK2 TO ALLOT-H2
058600         MOVE STRATUM-SK2 TO STRATUM-H2.
058700     IF (ADM-UNIT-SK2 NOT = ADM-UNIT-H2) OR
058800         (ALLOT-SK2 NOT = ALLOT-H2) OR
058900         (STRATUM-SK2 NOT = STRATUM-H2)
059000         GO TO 075-SUM.
059100     IF SWA-H2 = SPACE
059200         MOVE SWAT-SK2 TO SWAT-H2.
059300     IF SWAT-SK2 = SWAT-H2
059400         MOVE DATA-SK2 TO STRATUM-SORT-REC-HLD
059500         ADD PCT-SWA-H2 TO PCT-SWA-STRATUM-TOT-HLD
059600         GO TO 075-RETURN.
059700 075-SUM.
059800     MOVE STRATUM-SORT-REC-HLD TO STRATUM-WORK-REC.
059900     MOVE PCT-SWA-STRATUM-TOT-HLD TO PCT-SWA-TOT-W2.
060000*    DISPLAY "SWR= " STRATUM-WORK-REC.
060100     WRITE STRATUM-WORK-REC.
060200     IF SK2-SW = 1
060300         GO TO 070-EXIT.
060400     MOVE DATA-SK2 TO STRATUM-SORT-REC-HLD.
060500     MOVE PCT-SWA-H2 TO PCT-SWA-STRATUM-TOT-HLD.
060600     GO TO 075-RETURN.
060700 070-EXIT.
060800     EXIT.
060900 SWA-SORT-INPUT SECTION.
061000 080-OPEN.

```

```

061100      CLOSE STRATUM-WORK-FILE.
061200      OPEN INPUT STRATUM-WORK-FILE.
061300 080-READ-SWA.
061400      READ STRATUM-WORK-FILE
061500          AT END GO TO 080-EXIT.
061600*     DISPLAY "SWR= " STRATUM-WORK-REC.
061700      MOVE ADM-UNIT-W2 TO ADM-UNIT-SK3.
061800      MOVE ALLOT-W2 TO ALLOT-SK3.
061900      MOVE SWA-W2 TO SWA-SK3.
062000      MOVE STRATUM-W2 TO STRATUM-SK3.
062100      MOVE STRATUM-WORK-REC TO DATA-SK3.
062200      RELEASE SORT-REC-3.
062300      GO TO 080-READ-SWA.
062400 080-EXIT.
062500      EXIT.
062600 OWNER-SUM-OUTPUT SECTION.
062700 090-OPEN.
062800      CLOSE STRATUM-WORK-FILE.
062900      OPEN OUTPUT OWNER-WORK-FILE.
063000      MOVE SPACE TO ACRE-CNTL-HLD STRATUM-CNTL-HLD.
063100      MOVE SPACE TO SWR-TABLE.
063200      OPEN INPUT ACRE-WORK-FILE.
063300 095-RETURN.
063400      RETURN SORT-FILE-3
063500          AT END
063600              MOVE 1 TO SK3-SW
063700              GO TO 098-PASS.
063800*     DISPLAY "SR3= " SORT-REC-3.
063900      IF SUB > 29 DISPLAY "SWA TABLE OVERSIZE  SUB = " SUB
064000          CALL "ABORT".
064100 097-LOAD.
064200      IF SK3-SW = 1 GO TO 105-CHK-END.
064300      IF STRATUM-CNTL-HLD = SPACE
064400          MOVE ADM-UNIT-SK3 TO ADM-UNIT-SWA-CNTL
064500          MOVE ALLOT-SK3 TO ALLOT-SWA-CNTL
064600          MOVE SWA-SK3 TO SWA-SWA-CNTL
064700          MOVE STRATUM-SK3 TO STRATUM-SWA-CNTL
064800          ADD 1 TO SUB
064900          MOVE DATA-SK3 TO SWR-TAB (SUB)
065000          GO TO 095-RETURN.
065100*     DISPLAY "SCH= " STRATUM-CNTL-HLD.
065200      IF STRATUM-CNTL-HLD = SORT-KEY-SK3
065300          GO TO 095-RETURN.
065400      IF SWA-CNTL-HLD = SWA-CNTL-SK3
065500          MOVE STRATUM-SK3 TO STRATUM-SWA-CNTL
065600          ADD 1 TO SUB
065700          MOVE DATA-SK3 TO SWR-TAB (SUB)
065800          GO TO 095-RETURN.
065900 098-PASS.
066000      IF SWA-CNTL-HLD = ACRE-CNTL-HLD
066100          GO TO 100-MOVE-OWNER-WORK.
066200 100-READ-ACRE-WORK.
066300      READ ACRE-WORK-FILE
066400          AT END
066500              MOVE 1 TO END-SW
066600              GO TO 100-EXIT.
066700*     DISPLAY "AWR= " ACRE-WORK-REC.

```

```

066800     MOVE ADM-UNIT-W1 TO ADM-UNIT-ACRE-CNTL.
066900     MOVE ALLOT-W1 TO ALLOT-ACRE-CNTL.
067000     MOVE SWA-W1 TO SWA-ACRE-CNTL.
067100     IF ACRE-CNTL-HLD > SWA-CNTL-HLD
067200         MOVE ZERO TO SUB
067300         MOVE SPACE TO SWR-TABLE STRATUM-CNTL-HLD
067400         GO TO 097-LOAD.
067500     IF ACRE-CNTL-HLD < SWA-CNTL-HLD
067600         DISPLAY "ACH= " ACRE-CNTL-HLD
067700         DISPLAY "SCH= " SWA-CNTL-HLD
067800         GO TO 100-READ-ACRE-WORK.
067900 100-MOVE-OWNER-WORK.
068000     MOVE ZERO TO SUB.
068100 100-LOOP.
068200     MOVE SPACE TO OWNER-WORK-REC.
068300     MOVE ADM-UNIT-W1 TO ADM-UNIT-W3.
068400     MOVE ALLOT-NUM-W1 TO ALLOT-NUM-W3.
068500     MOVE PAST-NUM-W1 TO PAST-NUM-W3.
068600     MOVE SWA-W1 TO SWA-W3.
068700     MOVE OWNER-W1 TO OWNER-W3.
068800     MOVE JURIS-W1 TO JURIS-W3.
068900     MOVE MGT-ADM-W1 TO MGT-ADM-W3.
069000     MOVE LAND-TYP-W1 TO LAND-TYP-W3.
069100     MOVE PCT-OWNER-SWA-W1 TO PCT-SWA-OWNER-HLD.
069200     MOVE ACRES-SWA-TOT-W1 TO ACRES-SWA-TOT-W3.
069300     ADD 1 TO SUB.
069400     IF SWR-TAB (SUB) = SPACE
069500         GO TO 100-READ-ACRE-WORK.
069600     MOVE SWR-TAB (SUB) TO STRATUM-SORT-REC-HLD.
069700     MOVE STRATUM-H2 TO STRATUM-W3.
069800     MOVE RNG-SITE-H2 TO RNG-SITE-W3.
069900     MOVE COND-CLS-H2 TO COND-CLS-W3.
070000     MOVE PCT-SWA-H2 TO PCT-SWA-STRATUM-TOT-HLD.
070100     MULTIPLY PCT-SWA-OWNER-RD BY PCT-SWA-STRATUM-RD
070200         GIVING PCT-SWA-OWNER-STRATUM-RD ROUNDED.
070300     MULTIPLY ACRES-SWA-TOT-W1 BY PCT-SWA-OWNER-STRATUM-RD
070400         GIVING ACRES-OWNER-SWA-STRATUM-HLD ROUNDED.
070500     MOVE ACRES-OWNER-SWA-STRATUM-HLD TO
070600         ACRES-OWNER-STRATUM-TOT-W3.
070700     MOVE PCT-SWA-OWNER-STRATUM-HLD TO
070800         PCT-OWNER-SWA-W3.
070900*     DISPLAY "OWR= " OWNER-WORK-REC.
071000     WRITE OWNER-WORK-REC.
071100     GO TO 100-LOOP.
071200 100-EXIT.
071300     EXIT.
071400 105-CHK-END.
071500     IF END-SW NOT = 1
071600         DISPLAY "ACRES-WORK-FILE NOT AT END"
071700         STOP RUN.
071800 090-EXIT.
071900     EXIT.
072000 RNG-SITE-SORT-INPUT SECTION.
072100 110-OPEN.
072200     CLOSE OWNER-WORK-FILE.
072300     CLOSE ACRE-WORK-FILE.
072400     OPEN INPUT OWNER-WORK-FILE.

```

```

072500     OPEN INPUT VM-FILE.
072600 110-READ-OWNER.
072700     READ OWNER-WORK-FILE AT END
072800         MOVE SPACE TO SORT-REC-4
072900         GO TO 115-RELEASE-TOTAL.
073000*    DISPLAY "OWR= " STRATUM-WORK-REC.
073100     MOVE RNG-SITE-W3 TO RNG-SITE-W3-HLD.
073200     MOVE ALLOT-W3 TO ALLOT-W3-HLD.
073300     MOVE STRATUM-W3 TO STRATUM-W3-HLD.
073400     MOVE ALLOT-NUM-W3 TO ALLOT-NUM-W3-HLD.
073500     MOVE PAST-NUM-W3 TO PAST-NUM-W3-HLD.
073600     IF CNTL-SK4-HLD = SPACE
073700         MOVE CNTL-W3-HLD TO CNTL-SK4-HLD.
073800     IF CNTL-W3-HLD NOT = CNTL-SK4-HLD
073900         PERFORM 115-RELEASE-TOTAL
074000         MOVE CNTL-W3-HLD TO CNTL-SK4-HLD.
074100     MOVE 2 TO KEY-SK4.
074200     MOVE OWNER-WORK-REC TO DATA-SK4.
074300     MOVE CNTL-W3-HLD TO CNTL-SK4.
074400     ADD ACRES-OWNER-STRATUM-TOT-W3 TO ACRES-STRATUM-SUM-HLD.
074500     RELEASE SORT-REC-4.
074600     GO TO 110-READ-OWNER.
074700 115-RELEASE-TOTAL.
074800     MOVE SPACE TO SORT-REC-4.
074900     MOVE 0 TO KEY-SK4.
075000     MOVE CNTL-SK4-HLD TO CNTL-SK4.
075100     MOVE ACRES-STRATUM-SUM-HLD TO ACRES-STRATUM-SUM-SK4.
075200     MOVE ZERO TO ACRES-STRATUM-SUM-HLD.
075300     RELEASE SORT-REC-4.
075400 110-EXIT.
075500     EXIT.
075600 120-READ-VM.
075700     READ VM-FILE
075800         AT END GO TO 120-EXIT.
075900     MOVE RNG-SITE-I3 TO RNG-SITE-SK4.
076000     MOVE ZERO TO STRATUM-SK4 ALLOT-SK4.
076100     MOVE 1 TO KEY-SK4.
076200     MOVE ZERO TO X Y.
076300 121-LP.
076400     IF X = 5 GO TO 123-RELEASE.
076500     ADD 1 TO X.
076600     MOVE STOCKING-RATE-I3 (X) TO STOCK-RATE-HLD.
076700 122-LP.
076800     IF Y = 5
076900         MOVE STOCK-RATE-HLD TO STOCKING-RATE-I3 (X)
077000         MOVE ZERO TO Y
077100         GO TO 121-LP.
077200     IF SRH (Y) = SPACE MOVE ZERO TO SRH (Y).
077300     ADD 1 TO Y.
077400     GO TO 122-LP.
077500 123-RELEASE.
077600     MOVE VM-REC TO DATA-SK4.
077700     RELEASE SORT-REC-4.
077800     GO TO 120-READ-VM.
077900 120-EXIT.
078000     EXIT.
078100 STOCKING-SUM-OUTPUT SECTION.

```

```

078200 130-OPEN.
078300     OPEN OUTPUT STOCKING-FILE.
078400     MOVE SPACE TO STOCKING-REC-H5
078500 130-RETURN.
078600     RETURN SORT-FILE-4
078700     AT END
078800     GO TO 130-EXIT.
078900*    ADD 1 TO TEST-CNT-1.
079000*    IF TEST-CNT-1 < 300
079100*        DISPLAY "SR4= " SORT-REC-4.
079200    IF (KEY-PREV = 2 OR 1) AND
079300        (KEY-SK4 = ZERO)
079400        MOVE ZERO TO ACRES-STRATUM-SUM-HLD.
079500    MOVE KEY-SK4 TO KEY-PREV.
079600    IF KEY-SK4 = 0
079700        ADD ACRES-STRATUM-SUM-SK4 TO ACRES-STRATUM-SUM-HLD
079800        GO TO 130-RETURN.
079900    IF (KEY-SK4 = 1) AND
080000        (RNG-SITE-SK4 = RNG-SITE-H5)
080100        DISPLAY "VM - DUPLICATE RNG-SITE= " DATA-SK4
080200        GO TO 130-RETURN.
080300    IF KEY-SK4 = 1
080400        MOVE DATA-SK4 TO VM-H3
080500        MOVE SPACE TO STOCKING-REC-H5
080600        MOVE RNG-SITE-SK4 TO RNG-SITE-H5
080700        MOVE STOCKING-RATE-GRP-H3 TO STOCKING-RATE-GRP-H5
080800        MOVE STOCK-RATE-KEY-H3 TO STOCK-RATE-KEY-H5
080900        GO TO 130-RETURN.
081000    IF RNG-SITE-SK4 NOT = RNG-SITE-H5
081100        MOVE SPACE TO STOCKING-REC-H5.
081200    MOVE DATA-SK4 TO OWNER-DATA.
081300    MOVE ACRES-STRATUM-SUM-HLD TO ACRES-STRATUM-SUM-H5.
081400    WRITE STOCKING-REC FROM STOCKING-REC-H5.
081500    GO TO 130-RETURN.
081600 130-EXIT.
081700     EXIT.
081800 DUMMY SECTION.
081900 999-END.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES526P.
000300*     ECOLOGICAL CONDITION CLASS/EST. STOCKING RATE (P01B).
000400*
000500 AUTHOR. RON BAKER.
000600 INSTALLATION.          BLM.
000700 DATE-WRITTEN.          NOV 1981.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER.       LEVEL-66-ASCII.
001100 OBJECT-COMPUTER.       LEVEL-66-ASCII SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400     SELECT  VM-COND-LIST-FILE  ASSIGN P1
001500             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600     SELECT  RNG-SITE-WORK-FILE  ASSIGN W1
001700             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800     SELECT  STOCKING-FILE  ASSIGN TO I1

```



001900 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
002000 SELECT SORT-FILE ASSIGN TO S1 S2 S3.  
002100 SELECT SORT-FILE-2 ASSIGN TO S1 S2 S3.  
002200 DATA DIVISION.  
002300 SUB-SCHEMA SECTION.  
002400 DB CODVAL2 WITHIN BLMDIC.  
002500 FILE SECTION.  
002600 FD STOCKING-FILE  
002700 CODE-SET IS GBCD  
002800 LABEL RECORD IS STANDARD.  
002900 01 STOCKING-REC.  
003000 03 ADM-UNIT-I1.  
003100 05 ST-I1 PIC X(02).  
003200 05 DIS-I1 PIC X(02).  
003300 05 RA-I1 PIC X(02).  
003400 05 PLU-I1 PIC X(02).  
003500 03 ALLOT-I1.  
003600 05 ALLOT-NUM-I1 PIC X(04).  
003700 05 PAST-NUM-I1 PIC X(02).  
003800 03 STRATUM-I1 PIC X(04).  
003900 03 RNG-SITE-I1 PIC X(11).  
004000 03 SWA-I1 PIC X(04).  
004100 03 COND-CLS-I1 PIC X(01).  
004200 03 ACRES-SWA-TOT-I1 PIC 9(06).  
004300 03 ACRES-OWNER-STRATUM-TOT-I1 PIC 9(06).  
004400 03 ACRES-STRATUM-SUM-I1 PIC 9(06).  
004500 03 PCT-OWNER-SWA-I1 PIC 9(03)V99.  
004600 03 FILLER PIC XX.  
004700 03 OWNER-I1 PIC X(04).  
004800 03 JURIS-I1 PIC X(04).  
004900 03 MGT-ADM-I1 PIC X(04).  
005000 03 LAND-TYP-I1 PIC X(04).  
005100 03 FILLER PIC X(03).  
005200 03 STOCK-RATE-KEY-I1 PIC 9.  
005300 03 STOCKING-RATE-GRP-I1.  
005400 05 STOCKING-RATE-I1 PIC X(05) OCCURS 5 TIMES.  
005500 03 FILLER PIC X(04).  
005600 FD RNG-SITE-WORK-FILE  
005700 CODE-SET IS GBCD  
005800 LABEL RECORD IS STANDARD.  
005900 01 RNG-SITE-WORK-REC.  
006000 03 ADM-UNIT-W1.  
006100 05 ST-W1 PIC X(02).  
006200 05 DIS-W1 PIC X(02).  
006300 05 RA-W1 PIC X(02).  
006400 05 PLU-W1 PIC X(02).  
006500 03 ALLOT-W1.  
006600 05 ALLOT-NUM-W1 PIC X(04).  
006700 05 PAST-NUM-W1 PIC X(02).  
006800 03 RNG-SITE-W1 PIC X(11).  
006900 03 OWNER-W1 PIC X(04).  
007000 03 ACRES-W1 PIC 9(07).  
007100 03 EST-AUMS-PRES-W1 PIC 9(7)V99.  
007200 03 EST-AUMS-POTN-W1 PIC 9(7)V99.  
007300 03 COND-SUB-W1 PIC 9.  
007400 03 FILLER PIC X(05).  
007500 FD VM-COND-LIST-FILE

007600 CODE-SET IS GBCD  
007700 LABEL RECORDS ARE STANDARD  
007800 DATA RECORD IS VM-COND-LIST-FILE.  
007900 01 VM-COND-LIST-REC PIC X(132).  
008000 SD SORT-FILE  
008100 DATA RECORD IS SORT-REC.  
008200 01 SORT-REC.  
008300 03 SORT-KEY.  
008400 05 ADM-UNIT-SK1 PIC X(08).  
008500 05 ALLOT-SK1.  
008600 07 ALLOT-NUM-SK1 PIC X(04).  
008700 07 PAST-NUM-SK1 PIC XX.  
008800 05 STRATUM-SK1 PIC X(04).  
008900 05 OWNER-SK1 PIC X(04).  
009000 05 RNG-SITE-SK1 PIC X(11).  
009100 03 DATA-SK1 PIC X(102).  
009200 SD SORT-FILE-2  
009300 DATA RECORD IS SORT-REC-2.  
009400 01 SORT-REC-2.  
009500 03 SORT-KEY-2.  
009600 05 KEY-SK2 PIC 9.  
009700 05 ADM-UNIT-SK2 PIC X(08).  
009800 05 ALLOT-SK2.  
009900 07 ALLOT-NUM-SK2 PIC X(04).  
010000 07 PAST-NUM-SK2 PIC XX.  
010100 05 RNG-SITE-SK2.  
010200 07 OWNER-SK2 PIC X(04).  
010300 07 COND-SUB-SK2 PIC 9.  
010400 07 FILLER PIC X(06).  
010500 03 DATA-SK2 PIC X(60).  
010600 WORKING-STORAGE SECTION.  
010700 77 PG-CNT PIC 9(5) VALUE ZERO.  
010800 77 LINE-HLD PIC 9 VALUE 1.  
010900 77 LINE-CNT PIC 9(2) VALUE 99.  
011000 77 END-SW PIC 9 VALUE ZERO.  
011100 77 INV-SW PIC 9 VALUE ZERO.  
011200 77 ADM-SW PIC 9 VALUE ZERO.  
011300 77 RNG-SW PIC 9 VALUE ZERO.  
011400 77 OWN-SW PIC 9 VALUE ZERO.  
011500 77 END-OWN-SW PIC 9 VALUE ZERO.  
011600 77 END-OWN2-SW PIC 9 VALUE ZERO.  
011700 77 COND-SW PIC 9 VALUE ZERO.  
011800 77 COND-SUB PIC 9 VALUE ZERO.  
011900 77 END-RNG-SW PIC 9 VALUE ZERO.  
012000 77 END-RNG2-SW PIC 9 VALUE ZERO.  
012100 77 OFLO-SW PIC 9 VALUE 1.  
012200 77 SDRP-SW PIC 9 VALUE 1.  
012300 77 SUB PIC 9 VALUE ZERO.  
012400 77 OWNER-P4-HLD PIC X(04) VALUE SPACE.  
012500 77 INVENTORY PIC X(04).  
012600 77 RNG-SITE-PREV-HLD PIC X(11).  
012700 77 COND-CLS-PREV-HLD PIC X(01).  
012800 77 STRATUM-PREV-HLD PIC X(04).  
012900 01 TOT-CNTL.  
013000 03 ADM-UNIT-CNTL PIC X(08).  
013100 03 ALLOT-CNTL.  
013200 05 ALLOT-NUM-CNTL PIC X(04).

013300           05 PAST-NUM-CNTL   PIC XX.  
013400           03 STRATUM-CNTL       PIC X(04).  
013500           03 OWNER-CNTL         PIC X(04).  
013600           03 RNG-SITE-CNTL        PIC X(11).  
013700 01   RNG-CNTL.  
013800           03 KEY-RNG-CNTL         PIC 9.  
013900           03 ADM-UNIT-RNG-CNTL     PIC X(08).  
014000           03 ALLOT-RNG-RNG-CNTL.  
014100           05 ALLOT-RNG-CNTL.  
014200           07 ALLOT-NUM-RNG-CNTL   PIC X(04).  
014300           07 PAST-NUM-RNG-CNTL   PIC XX.  
014400           03 RNG-SITE-RNG-CNTL.  
014500           07 OWNER-RNG-CNTL     PIC X(04).  
014600           07 COND-SUB-RNG-CNTL   PIC 9.  
014700           07 FILLER             PIC X(06).  
014800 01   ALLOT-P3-HLD.  
014900           03 ALLOT-NUM-P3-HLD     PIC X(04).  
015000           03 PAST-NUM-P3-HLD     PIC X(02).  
015100 01   TOTALS-HLD.  
015200           03 ACRES-CAL             PIC 9(09) VALUE ZERO.  
015300           03 PCT-CAL             PIC 999 VALUE ZERO.  
015400           03 ACRES-PLU-SUM         PIC 9(07) VALUE ZERO.  
015500           03 ACRES-INV-SUM         PIC 9(07) VALUE ZERO.  
015600           03 ACRES-COND-TOT         PIC 9(07) VALUE ZERO.  
015700           03 AUMS-PRES-COND-TOT         PIC 9(7)V99 VALUE ZERO.  
015800           03 AUMS-POTN-COND-TOT         PIC 9(07)V99 VALUE ZERO.  
015900           03 ACRES-SWA-OWNER-TOT         PIC 9(07) VALUE ZERO.  
016000           03 ACRES-OWNER-TOT         PIC 9(07) VALUE ZERO.  
016100           03 AUMS-PRES-OWNER-TOT         PIC 9(7)V99 VALUE ZERO.  
016200           03 AUMS-POTN-OWNER-TOT         PIC 9(07)V99 VALUE ZERO.  
016300           03 ACRES-STRATUM-TOT         PIC 9(07) VALUE ZERO.  
016400           03 AUMS-PRES-STRATUM-TOT         PIC 9(7)V99 VALUE ZERO.  
016500           03 AUMS-POTN-STRATUM-TOT         PIC 9(07)V99 VALUE ZERO.  
016600           03 ACRES-RNG-SITE-TOT         PIC 9(07) VALUE ZERO.  
016700           03 AUMS-PRES-RNG-SITE-TOT         PIC 9(7)V99 VALUE ZERO.  
016800           03 AUMS-POTN-RNG-SITE-TOT         PIC 9(07)V99 VALUE ZERO.  
016900           03 ACRES-PAST-TOT             PIC 9(07) VALUE ZERO.  
017000           03 AUMS-PRES-PAST-TOT         PIC 9(7)V99 VALUE ZERO.  
017100           03 AUMS-POTN-PAST-TOT         PIC 9(07)V99 VALUE ZERO.  
017200           03 ACRES-ALOT-TOT             PIC 9(07) VALUE ZERO.  
017300           03 AUMS-PRES-ALOT-TOT         PIC 9(7)V99 VALUE ZERO.  
017400           03 AUMS-POTN-ALOT-TOT         PIC 9(07)V99 VALUE ZERO.  
017500           03 ACRES-PLU-TOT             PIC 9(07) VALUE ZERO.  
017600           03 AUMS-PRES-PLU-TOT         PIC 9(7)V99 VALUE ZERO.  
017700           03 AUMS-POTN-PLU-TOT         PIC 9(07)V99 VALUE ZERO.  
017800           03 ACRES-INV-TOT             PIC 9(07) VALUE ZERO.  
017900           03 AUMS-PRES-INV-TOT         PIC 9(7)V99 VALUE ZERO.  
018000           03 AUMS-POTN-INV-TOT         PIC 9(07)V99 VALUE ZERO.  
018100           03 PCT-OWNER-TOT             PIC 9V99 VALUE ZERO.  
018200           03 PCT-OWNER-TOT-RD REDEFINES PCT-OWNER-TOT  
018300                                    PIC 999.  
018400 01   COND-SUM-TOTALS.  
018500           03 COND-PLU-SUM.  
018600           05 COND-PLU        OCCURS 5 TIMES.  
018700           07 ACRES-COND-PLU-SUM     PIC 9(07)V99.  
018800           07 AUMS-PRES-COND-PLU-SUM PIC 9(07)V99.  
018900           07 AUMS-POTN-COND-PLU-SUM PIC 9(07)V99.

019000 03 COND-INV-SUM.  
019100 05 COND-INV OCCURS 5 TIMES.  
019200 07 ACRES-COND-INV-SUM PIC 9(07)V99.  
019300 07 AUMS-PRES-COND-INV-SUM PIC 9(07)V99.  
019400 07 AUMS-POTN-COND-INV-SUM PIC 9(07)V99.  
019500 01 HDR-1.  
019600 03 FILLER PIC X(07)  
019700 VALUE " DATE: ".  
019800 03 HDR-MO PIC X(04).  
019900 03 FILLER PIC X(01)  
020000 VALUE SPACE.  
020100 03 HDR-DA PIC Z9.  
020200 03 FILLER PIC X(04)  
020300 VALUE ", 19".  
020400 03 HDR-YR PIC 9(02).  
020500 03 FILLER PIC X(02)  
020600 VALUE SPACES.  
020700 03 HDR-HR PIC 9(02).  
020800 03 FILLER PIC X(01)  
020900 VALUE ":".   
021000 03 HDR-MIN PIC 9(02).  
021100 03 FILLER PIC X(22)  
021200 VALUE SPACES.  
021300 03 FILLER PIC X(23) VALUE "U.S.D.I. BUREAU OF LAND".  
021400 03 FILLER PIC X(11) VALUE " MANAGEMENT".  
021500 03 FILLER PIC X(22)  
021600 VALUE SPACES.  
021700 03 FILLER PIC X(15) VALUE "PCN: P01B ".  
021800 03 FILLER PIC X(6) VALUE " PAGE ".  
021900 03 HDR-PG PIC ZZ,ZZ9.  
022000 01 HDR-2.  
022100 03 FILLER PIC X(8)  
022200 VALUE "STATE: ".  
022300 03 HDR-ST PIC X(02).  
022400 03 FILLER PIC X(04)  
022500 VALUE SPACES.  
022600 03 HDR-ST-NAM PIC X(10).  
022700 03 FILLER PIC X(30)  
022800 VALUE SPACES.  
022900 03 FILLER PIC X(25)  
023000 VALUE "ECOLOGICAL SITE INVENTORY".  
023100 03 FILLER PIC X(38)  
023200 VALUE SPACES.  
023300 03 FILLER PIC X(06)  
023400 VALUE SPACE.  
023500 03 FILLER PIC X(9)  
023600 VALUE SPACE.  
023700 01 HDR-3.  
023800 03 FILLER PIC X(08)  
023900 VALUE " DI: ".  
024000 03 HDR-DIST PIC X(02).  
024100 03 FILLER PIC X(04)  
024200 VALUE SPACES.  
024300 03 HDR-DIST-NAM PIC X(12).  
024400 03 FILLER PIC X(106)  
024500 VALUE SPACES.  
024600 01 HDR-4.

024700	03	FILLER	PIC	X(08)	
024800		VALUE " RA: "			
024900	03	HDR-RA	PIC	X(02).	
025000	03	FILLER	PIC	X(04)	
025100		VALUE SPACES.			
025200	03	HDR-RA-NAM	PIC	X(18).	
025300	03	FILLER	PIC	X(09)	
025400		VALUE SPACES.			
025500	03	FILLER	PIC	X(25)	
025600		VALUE "ECOLOGICAL CONDITION CLAS".			
025700	03	FILLER	PIC	X(25)	
025800		VALUE "S/ESTIMATED STOCKING RATE".			
025900	03	HDR-4-REMARK	PIC	X(37)	
026000		VALUE SPACE.			
026100	03	FILLER	PIC	X(10)	
026200		VALUE SPACES.			
026300	01	HDR-5.			
026400	03	FILLER	PIC	X(08)	
026500		VALUE " PLU: "			
026600	03	HDR-PLU	PIC	X(02).	
026700	03	FILLER	PIC	X(04)	
026800		VALUE SPACES.			
026900	03	HDR-PLU-NAM	PIC	X(18).	
027000	03	FILLER	PIC	X(100)	
027100		VALUE SPACES.			
027200	01	HDR-6	PIC	X(132).	
027300	01	HDR-6A.			
027400	03	FILLER	PIC	X(08)	
027500		VALUE " INV: "			
027600	03	HDR-INV-A	PIC	X(04).	
027700	03	FILLER	PIC	X(02)	
027800		VALUE SPACES.			
027900	03	HDR-INV-NAM-A	PIC	X(18).	
028000	03	FILLER	PIC	X(20)	
028100		VALUE SPACES.			
028200	03	FILLER	PIC	X(10)	
028300		VALUE "ALLOTMENT ".			
028400	03	HDR-ALOT	PIC	XXXX.	
028500	03	FILLER	PIC	X(11)	
028600		VALUE " PASTURE ".			
028700	03	HDR-PAST	PIC	XX.	
028800	03	FILLER	PIC	X(54)	
028900		VALUE SPACES.			
029000	01	HDR-6B.			
029100	03	FILLER	PIC	X(08)	
029200		VALUE " INV: "			
029300	03	HDR-INV-B	PIC	X(04).	
029400	03	FILLER	PIC	X(02)	
029500		VALUE SPACES.			
029600	03	HDR-INV-NAM-B	PIC	X(18).	
029700	03	FILLER	PIC	X(100)	
029800		VALUE SPACES.			
029900	01	HDR-7.			
030000	03	FILLER	PIC	X(33)	
030100		VALUE " RANGE SITE STRATUM ESTIMAT".			
030200	03	FILLER	PIC	X(33)	
030300		VALUE "ED ACRES OWNER JURIS ".			

030400	03	FILLER	PIC X(33)		
030500		VALUE " ADMIN	LAND		ESTIMATE".
030600	03	FILLER	PIC X(33)		
030700		VALUE "D AUMS			".
030800	01	HDR-8.			
030900	03	FILLER	PIC X(33)		
031000		VALUE "			CONDITI".
031100	03	FILLER	PIC X(33)		
031200		VALUE "ON	PCT CD		".
031300	03	FILLER	PIC X(33)		
031400		VALUE "	TYPE	PRESENT	".
031500	03	FILLER	PIC X(33)		
031600		VALUE " POTENTIAL			".
031700	01	HDR-9.			
031800	03	RMK-H9	PIC X(12)		
031900		VALUE "ALLOT/PAST "			".
032000	03	FILLER	PIC X(21)		
032100		VALUE "RANGE SITE	ACRES".		
032200	03	FILLER	PIC X(33)		
032300		VALUE "	ESTIMATED AUMS		".
032400	03	FILLER	PIC X(33)		
032500		VALUE SPACE.			
032600	03	FILLER	PIC X(33)		
032700		VALUE SPACE.			
032800	01	HDR-10.			
032900	03	FILLER	PIC X(33)		
033000		VALUE SPACE.			
033100	03	FILLER	PIC X(33)		
033200		VALUE "	PRESENT	POTENTIAL	".
033300	03	FILLER	PIC X(33)		
033400		VALUE SPACE.			
033500	03	FILLER	PIC X(33)		
033600		VALUE SPACE.			
033700	01	HDR-11.			
033800	03	FILLER	PIC X(33)		
033900		VALUE "	OWNER	ACRES	ESTIM".
034000	03	FILLER	PIC X(33)		
034100		VALUE "ATED	ESTIMATED AUMS		".
034200	03	FILLER	PIC X(33)		
034300		VALUE SPACE.			
034400	03	FILLER	PIC X(33)		
034500		VALUE SPACE.			
034600	01	HDR-12.			
034700	03	FILLER	PIC X(33)		
034800		VALUE "			CONDI".
034900	03	FILLER	PIC X(33)		
035000		VALUE "TION	PRESENT	POTENTIAL	".
035100	03	FILLER	PIC X(33)		
035200		VALUE SPACE.			
035300	03	FILLER	PIC X(33)		
035400		VALUE SPACE.			
035500	01	HDR-13.			
035600	03	FILLER	PIC X(33)		
035700		VALUE "	ACRES	PERCEN".	
035800	03	FILLER	PIC X(33)		
035900		VALUE "T ESTIMATED	ESTIMATED AUM".		
036000	03	FILLER	PIC X(33)		

036100		VALUE "S			" .
036200	03	FILLER	PIC	X(33)	
036300		VALUE SPACE.			
036400	01	HDR-14.			
036500	03	FILLER	PIC	X(33)	
036600		VALUE "			" .
036700	03	FILLER	PIC	X(33)	
036800		VALUE " CONDITION PRESENT			POTEN" .
036900	03	FILLER	PIC	X(33)	
037000		VALUE "TIAL			" .
037100	03	FILLER	PIC	X(33)	
037200		VALUE SPACE.			
037300	01	STOCK-REC-HLD.			
037400	03	ADM-UNIT-H1.			
037500	05	ST-H1	PIC	X(02).	
037600	05	DIS-H1	PIC	X(02).	
037700	05	RA-H1	PIC	X(02).	
037800	05	PLU-H1	PIC	X(02).	
037900	03	ALLOT-NUM-H1	PIC	X(04).	
038000	03	PAST-NUM-H1	PIC	X(02).	
038100	03	STRATUM-H1	PIC	X(04).	
038200	03	RNG-SITE-H1	PIC	X(11).	
038300	03	SWA-H1	PIC	X(04).	
038400	03	COND-CLS-H1	PIC	X(01).	
038500	03	ACRES-SWA-TOT-H1	PIC	9(06).	
038600	03	ACRES-OWNER-STRATUM-TOT-H1	PIC	9(06).	
038700	03	ACRES-STRATUM-SUM-H1	PIC	9(06).	
038800	03	PCT-OWNER-SWA-H1	PIC	9(03)V99.	
038900	03	FILLER	PIC	XX.	
039000	03	OWNER-H1	PIC	X(04).	
039100	03	JURIS-H1	PIC	X(04).	
039200	03	MGT-ADM-H1	PIC	X(04).	
039300	03	LAND-TYP-H1	PIC	X(04).	
039400	03	FILLER	PIC	X(03).	
039500	03	STOCK-RATE-KEY-H1	PIC	9.	
039600	03	STOCKING-RATE-GRP-H1.			
039700	05	STOCKING-RATE-H1	PIC	999V99	OCCURS 5 TIMES.
039800	03	STOCKING-RATE-GRP-RD-H1	REDEFINES	STOCKING-RATE-GRP-H1.	
039900	05	STOCKING-RATE-RD-H1	PIC	999V99	OCCURS 5 TIMES.
040000	03	FILLER	PIC	X(04).	
040100	01	STOCK-REC-PREV.			
040200	03	ADM-UNIT-PREV.			
040300	05	ST-PREV	PIC	X(02).	
040400	05	DIS-PREV	PIC	X(02).	
040500	05	RA-PREV	PIC	X(02).	
040600	05	PLU-PREV	PIC	X(02).	
040700	03	ALLOT-NUM-PREV	PIC	X(04).	
040800	03	PAST-NUM-PREV	PIC	X(02).	
040900	03	STRATUM-PREV	PIC	X(04).	
041000	03	RNG-SITE-PREV	PIC	X(11).	
041100	03	SWA-PREV	PIC	X(04).	
041200	03	COND-CLS-PREV	PIC	X(01).	
041300	03	ACRES-SWA-TOT-PREV	PIC	9(06).	
041400	03	ACRES-OWNER-STRATUM-TOT-PREV	PIC	9(06).	
041500	03	ACRES-STRATUM-SUM-PREV	PIC	9(06).	
041600	03	PCT-OWNER-SWA-PREV	PIC	9(03)V99.	
041700	03	FILLER	PIC	XX.	

041800	03	OWNER-PREV	PIC X(04).
041900	03	JURIS-PREV	PIC X(04).
042000	03	MGT-ADM-PREV	PIC X(04).
042100	03	LAND-TYP-PREV	PIC X(04).
042200	03	FILLER	PIC X(03).
042300	03	STOCK-RATE-KEY-PREV	PIC 9.
042400	03	STOCKING-RATE-GRP-PREV.	
042500		05 STOCKING-RATE-PREV	PIC 999V99 OCCURS 5 TIMES.
042600	03	STOCKING-RATE-GRP-RD-PREV	REDEFINES
042700		STOCKING-RATE-GRP-PREV.	
042800		05 STOCKING-RATE-RD-PREV	PIC 999V99 OCCURS 5 TIMES.
042900	03	FILLER	PIC X(04).
043000	01	RNG-SITE-WORK-REC-HLD.	
043100	03	ADM-UNIT-H2.	
043200		05 ST-H2	PIC X(02).
043300		05 DIS-H2	PIC X(02).
043400		05 RA-H2	PIC X(02).
043500		05 PLU-H2	PIC X(02).
043600	03	ALLOT-NUM-H2	PIC X(04).
043700	03	PAST-NUM-H2	PIC X(02).
043800	03	RNG-SITE-H2	PIC X(11).
043900	03	OWNER-H2	PIC X(04).
044000	03	ACRES-H2	PIC 9(07).
044100	03	EST-AUMS-PRES-H2	PIC 9(7)V99.
044200	03	EST-AUMS-POTN-H2	PIC 9(7)V99.
044300	03	FILLER	PIC X(06) VALUE SPACE.
044400	01	PRINT-WORK.	
044500	03	FILLER	PIC X(05) VALUE SPACE.
044600	03	RNG-SITE-P1	PIC X(11).
044700	03	FILLER	PIC X(03) VALUE SPACE.
044800	03	STRATUM-P1	PIC X(04).
044900	03	FILLER	PIC X(06) VALUE SPACE.
045000	03	COND-P1	PIC X(04).
045100	03	FILLER	PIC X(02) VALUE SPACE.
045200	03	ACRES-P1	PIC Z,ZZZ,ZZ9.
045300	03	FILLER	PIC X(04) VALUE SPACE.
045400	03	PCT-P1	PIC ZZ9.
045500	03	FILLER	PIC X.
045600	03	OWNER-P1	PIC X(04).
045700	03	FILLER	PIC X(03) VALUE SPACE.
045800	03	JURIS-P1	PIC X(04).
045900	03	FILLER	PIC X(04) VALUE SPACE.
046000	03	MGT-ADM-P1	PIC X(04).
046100	03	FILLER	PIC X(03) VALUE SPACE.
046200	03	LAND-TYP-P1	PIC X(04).
046300	03	FILLER	PIC X(03) VALUE SPACE.
046400	03	EST-AUMS-PRES-P1	PIC Z,ZZZ,ZZZ.99.
046500	03	FILLER	PIC X(06) VALUE SPACE.
046600	03	EST-AUMS-POTN-P1	PIC Z,ZZZ,ZZZ.99.
046700	03	FILLER	PIC X(20) VALUE SPACE.
046800	01	PRINT-TOT-WORK.	
046900	03	REMARK-P2	PIC X(24).
047000	03	FILLER	PIC X(11) VALUE SPACE.
047100	03	ACRES-P2	PIC Z,ZZZ,ZZ9.
047200	03	FILLER	PIC X(37) VALUE SPACE.
047300	03	EST-AUMS-PRES-P2	PIC Z,ZZZ,ZZZ.99.
047400	03	FILLER	PIC X(06) VALUE SPACE.



047500 03 EST-AUMS-POTN-P2 PIC Z,ZZZ,ZZZ.99.  
047600 03 FILLER PIC X(20) VALUE SPACE.  
047700 01 PRINT-RNG-TOT-WORK.  
047800 03 REMARK-P3.  
047900 05 ALLOT-P3 PIC X(04).  
048000 05 FILLER PIC XX VALUE SPACE.  
048100 05 PAST-P3 PIC XX.  
048200 05 FILLER PIC X(04) VALUE SPACE.  
048300 05 RNG-SITE-P3 PIC X(11).  
048400 03 FILLER PIC X(01) VALUE SPACE.  
048500 03 ACRES-P3 PIC Z,ZZZ,ZZ9.  
048600 03 FILLER PIC X(02) VALUE SPACE.  
048700 03 EST-AUMS-PRES-P3 PIC Z,ZZZ,ZZZ.99.  
048800 03 FILLER PIC X(02) VALUE SPACE.  
048900 03 EST-AUMS-POTN-P3 PIC Z,ZZZ,ZZZ.99.  
049000 03 FILLER PIC X(71) VALUE SPACE.  
049100 01 PRINT-OWN-TOT-WORK.  
049200 03 REMARK-P4.  
049300 05 FILLER PIC X(11) VALUE SPACE.  
049400 05 OWNER-P4 PIC X(04).  
049500 05 FILLER PIC X(01) VALUE SPACE.  
049600 03 ACRES-P4 PIC Z,ZZZ,ZZ9.  
049700 03 FILLER PIC X(05) VALUE SPACE.  
049800 03 COND-P4 PIC X(04).  
049900 03 FILLER PIC X(02) VALUE SPACE.  
050000 03 EST-AUMS-PRES-P4 PIC Z,ZZZ,ZZZ.99.  
050100 03 FILLER PIC X(02) VALUE SPACE.  
050200 03 EST-AUMS-POTN-P4 PIC Z,ZZZ,ZZZ.99.  
050300 03 FILLER PIC X(70) VALUE SPACE.  
050400 01 PRINT-OWN-SUM-WORK.  
050500 03 REMARK-P5 PIC X(16) VALUE SPACE.  
050600 03 ACRES-P5 PIC Z,ZZZ,ZZ9.  
050700 03 FILLER PIC X(04) VALUE SPACE.  
050800 03 PCT-P5 PIC ZZ9.  
050900 03 FILLER PIC X(06) VALUE SPACE.  
051000 03 COND-P5 PIC X(04).  
051100 03 FILLER PIC X(02) VALUE SPACE.  
051200 03 EST-AUMS-PRES-P5 PIC Z,ZZZ,ZZZ.99.  
051300 03 FILLER PIC X(02) VALUE SPACE.  
051400 03 EST-AUMS-POTN-P5 PIC Z,ZZZ,ZZZ.99.  
051500 03 FILLER PIC X(62) VALUE SPACE.  
051600 01 MTH-TABLE.  
051700 03 FILLER PIC X(32)  
051800 VALUE "JAN FEB MAR APR MAY JUNEJULY AUG ".  
051900 03 FILLER PIC X(16)  
052000 VALUE "SEPT OCT NOV DEC ".  
052100 01 MTH-TAB REDEFINES MTH-TABLE.  
052200 03 MTH-TB PIC X(4) OCCURS 12 TIMES.  
052300 01 COND-TABLE.  
052400 03 FILLER PIC X(20)  
052500 VALUE "EXCLGOODFAIRPOORUNCL".  
052600 01 COND-TAB REDEFINES COND-TABLE.  
052700 03 COND-TB PIC X(04) OCCURS 5 TIMES.  
052800 01 TOD.  
052900 03 HR-TOD PIC 99.  
053000 03 MIN-TOD PIC 99.  
053100 01 TODAYS-DATE.

053200 03 TD-YR PIC 9(02).  
053300 03 TD-MO PIC 9(02).  
053400 03 TD-DA PIC 9(02).  
053500 01 MOVED-DATE.  
053600 03 MD-DD PIC XX.  
053700 03 MD-YY PIC XX.  
053800 03 MD-MM PIC XX.  
053900 01 INV-HLD.  
054000 03 INV-NAME PIC X(18).  
054100 03 FILLER PIC XX.  
054200 03 INV-SD.  
054300 05 INV-ST PIC XX.  
054400 05 INV-DS PIC XX.  
054500 01 ST-NAM-HLD.  
054600 03 ST-NAME PIC X(10).  
054700 03 FILLER PIC X(14).  
054800 01 DRP-NAM-HLD.  
054900 03 DS-NAME PIC X(10).  
055000 03 FILLER PIC XX.  
055100 03 RA-NAME PIC X(12).  
055200 03 FILLER PIC X.  
055300 03 PU-NAME PIC X(15).  
055400 01 SDRP-HLD.  
055500 03 ST-HLD PIC XX.  
055600 03 DS-HLD PIC XX.  
055700 03 RA-HLD PIC XX.  
055800 03 PLU-HLD PIC XX.  
055900 01 P-SPACE PIC X(132) VALUE SPACE.  
056000 01 FILE-STATUS.  
056100 03 MAJOR-STATUS PIC X.  
056200 03 MINOR-STATUS PIC X.  
056300 COPY DBSTATUS IN TPCOBOLIB.  
056400 PROCEDURE DIVISION.  
056500 A100-HOUSE SECTION.  
056600 A100-HOUSEKEEPING.  
056700 ACCEPT TODAYS-DATE FROM DATE.  
056800 MOVE TD-YR TO HDR-YR.  
056900 MOVE TD-DA TO HDR-DA.  
057000 ACCEPT TOD FROM TIME.  
057100 MOVE HR-TOD TO HDR-HR.  
057200 MOVE MIN-TOD TO HDR-MIN.  
057300 MOVE MTH-TB (TD-MO) TO HDR-MO.  
057400 ACCEPT INVENTORY.  
057500 READY DIC-DE.  
057600 PERFORM F600-DB THRU F600-EXIT.  
057700 MOVE ZEROS TO COND-PLU-SUM COND-INV-SUM.  
057800 A110-SORT.  
057900 SORT SORT-FILE ON ASCENDING KEY  
058000 SORT-KEY  
058100 INPUT PROCEDURE IS STOCK-SORT-INPUT  
058200 OUTPUT PROCEDURE IS STOCK-SUM-OUTPUT.  
058300 A120-SORT.  
058400 SORT SORT-FILE-2 ON ASCENDING KEY  
058500 SORT-KEY-2  
058600 INPUT PROCEDURE IS RNG-SORT-INPUT  
058700 OUTPUT PROCEDURE IS RNG-SUM-OUTPUT.  
058800 A120-END.

```

058900     FINISH DIC-DE.
059000     CLOSE VM-COND-LIST-FILE.
059100     DISPLAY "END JOB".
059200     STOP RUN.
059300 STOCK-SORT-INPUT SECTION.
059400 B200-OPEN.
059500     OPEN INPUT STOCKING-FILE.
059600     MOVE SPACE TO TOT-CNTL.
059700 B210-READ-STOCKING.
059800     READ STOCKING-FILE AT END
059900         GO TO B200-EXIT.
060000*    MOVE 2 TO STOCK-RATE-KEY-I1.
060100     MOVE ADM-UNIT-I1 TO ADM-UNIT-SK1.
060200     MOVE ALLOT-NUM-I1 TO ALLOT-NUM-SK1.
060300     MOVE PAST-NUM-I1 TO PAST-NUM-SK1.
060400     MOVE STRATUM-I1 TO STRATUM-SK1.
060500     MOVE OWNER-I1 TO OWNER-SK1.
060600     MOVE RNG-SITE-I1 TO RNG-SITE-SK1.
060700     MOVE STOCKING-REC TO DATA-SK1.
060800     RELEASE SORT-REC.
060900     GO TO B210-READ-STOCKING.
061000 B200-EXIT.
061100     EXIT.
061200 STOCK-SUM-OUTPUT SECTION.
061300 C300-OPEN.
061400     OPEN OUTPUT VM-COND-LIST-FILE.
061500     OPEN OUTPUT RNG-SITE-WORK-FILE.
061600     CLOSE STOCKING-FILE.
061700     MOVE SPACE TO PRINT-WORK SDRP-HLD.
061800 C310-RETURN.
061900     RETURN SORT-FILE AT END
062000         PERFORM D400-OWN-TOT THRU D450-INV-TOT
062100         GO TO D300-EXIT.
062200*    DISPLAY "SR= " SORT-REC.
062300     MOVE DATA-SK1 TO STOCK-REC-HLD.
062400     MOVE ADM-UNIT-H1 TO SDRP-HLD.
062500 C320-CHK-OFLO.
062600     IF OFLO-SW = 1
062700         MOVE ZERO TO OFLO-SW
062800         MOVE 99 TO LINE-CNT
062900         MOVE ALLOT-NUM-H1 TO HDR-ALOT
063000         MOVE PAST-NUM-H1 TO HDR-PAST
063100         MOVE HDR-6A TO HDR-6
063200         MOVE SPACE TO RNG-SITE-PREV-HLD STRATUM-PREV-HLD
063300         PERFORM G700-DB THRU G700-EXIT.
063400     IF TOT-CNTL = SPACE
063500         MOVE SORT-KEY TO TOT-CNTL.
063600     IF (ADM-UNIT-SK1 NOT = ADM-UNIT-CNTL)
063700         MOVE 1 TO SDRP-SW
063800         MOVE 1 TO OFLO-SW
063900         PERFORM D400-OWN-TOT THRU D440-PLU-TOT
064000         MOVE SPACE TO TOT-CNTL
064100         GO TO C320-CHK-OFLO.
064200     IF (ALLOT-NUM-SK1 NOT = ALLOT-NUM-CNTL)
064300         MOVE 1 TO OFLO-SW
064400         PERFORM D400-OWN-TOT THRU D430-ALOT-TOT
064500         MOVE SPACE TO TOT-CNTL

```

```

064600         GO TO C320-CHK-OFLO.
064700     IF (PAST-NUM-SK1 NOT = PAST-NUM-CNTL)
064800         MOVE 1 TO OFLO-SW
064900         PERFORM D400-OWN-TOT THRU D425-EXIT
065000         MOVE SPACE TO TOT-CNTL
065100         GO TO C320-CHK-OFLO.
065200     IF STRATUM-SK1 NOT = STRATUM-CNTL
065300         PERFORM D400-OWN-TOT THRU D420-STRATUM-TOT
065400         WRITE VM-COND-LIST-REC FROM P-SPACE
065500         ADD 1 TO LINE-CNT
065600         MOVE SPACE TO TOT-CNTL
065700         GO TO C320-CHK-OFLO.
065800     IF (OWNER-SK1 = OWNER-CNTL) AND
065900         (RNG-SITE-SK1 = RNG-SITE-CNTL)
066000*         ADD ACRES-SWA-TOT-H1 TO ACRES-SWA-OWNER-TOT
066100         ADD ACRES-OWNER-STRATUM-TOT-H1 TO ACRES-OWNER-TOT
066200         MOVE STOCK-REC-HLD TO STOCK-REC-PREV
066300         GO TO C310-RETURN.
066400     PERFORM D400-OWN-TOT.
066500     MOVE SPACE TO TOT-CNTL.
066600     GO TO C320-CHK-OFLO.
066700 D400-OWN-TOT.
066800*     DISPLAY "SRP= " STOCK-REC-PREV.
066900     IF COND-CLS-PREV = "E" MOVE 1 TO SUB.
067000     IF COND-CLS-PREV = "G" MOVE 2 TO SUB.
067100     IF COND-CLS-PREV = "F" MOVE 3 TO SUB.
067200     IF COND-CLS-PREV = "P" MOVE 4 TO SUB.
067300     IF COND-CLS-PREV = "U" MOVE 5 TO SUB.
067400*     DISPLAY " ASOT= " ACRES-SWA-OWNER-TOT.
067500*     DISPLAY " AOT= " ACRES-OWNER-TOT.
067600     DIVIDE ACRES-STRATUM-SUM-PREV INTO ACRES-OWNER-TOT
067700         GIVING PCT-OWNER-TOT ROUNDED.
067800     IF RNG-SITE-PREV NOT = RNG-SITE-PREV-HLD
067900         MOVE RNG-SITE-PREV TO RNG-SITE-P1.
068000     IF STRATUM-PREV NOT = STRATUM-PREV-HLD
068100         MOVE STRATUM-PREV TO STRATUM-P1.
068200     MOVE ACRES-OWNER-TOT TO ACRES-P1.
068300     MOVE OWNER-PREV TO OWNER-P1.
068400     MOVE PCT-OWNER-TOT-RD TO PCT-P1.
068500     MOVE JURIS-PREV TO JURIS-P1.
068600     MOVE MGT-ADM-PREV TO MGT-ADM-P1.
068700     MOVE LAND-TYP-PREV TO LAND-TYP-P1.
068800     IF STOCK-RATE-KEY-PREV = 2
068900         DIVIDE ACRES-OWNER-TOT BY
069000             STOCKING-RATE-PREV (SUB)
069100             GIVING AUMS-PRES-OWNER-TOT.
069200     IF STOCK-RATE-KEY-PREV = 1
069300         MULTIPLY ACRES-OWNER-TOT BY
069400             STOCKING-RATE-RD-PREV (SUB)
069500             GIVING AUMS-PRES-OWNER-TOT.
069600     IF STOCK-RATE-KEY-PREV = 2
069700         DIVIDE ACRES-OWNER-TOT BY
069800             STOCKING-RATE-PREV (1)
069900             GIVING AUMS-POTN-OWNER-TOT.
070000     IF STOCK-RATE-KEY-PREV = 1
070100         MULTIPLY ACRES-OWNER-TOT BY
070200             STOCKING-RATE-RD-PREV (1)

```

```

070300             GIVING AUMS-POTN-OWNER-TOT.
070400     MOVE AUMS-PRES-OWNER-TOT TO EST-AUMS-PRES-P1.
070500     MOVE AUMS-POTN-OWNER-TOT TO EST-AUMS-POTN-P1.
070600     IF COND-CLS-PREV NOT = COND-CLS-PREV-HLD
070700             MOVE COND-TB (SUB) TO COND-P1.
070800     MOVE SPACE TO RNG-SITE-WORK-REC.
070900     MOVE ADM-UNIT-PREV TO ADM-UNIT-W1.
071000     MOVE RNG-SITE-PREV TO RNG-SITE-W1.
071100     MOVE ALLOT-NUM-PREV TO ALLOT-NUM-W1.
071200     MOVE PAST-NUM-PREV TO PAST-NUM-W1.
071300     MOVE OWNER-PREV TO OWNER-W1.
071400     MOVE ACRES-OWNER-TOT TO ACRES-W1.
071500     MOVE AUMS-PRES-OWNER-TOT TO EST-AUMS-PRES-W1.
071600     MOVE AUMS-POTN-OWNER-TOT TO EST-AUMS-POTN-W1.
071700     MOVE SUB TO COND-SUB-W1.
071800     WRITE RNG-SITE-WORK-REC.
071900     ADD AUMS-PRES-OWNER-TOT TO AUMS-PRES-STRATUM-TOT.
072000     ADD AUMS-POTN-OWNER-TOT TO AUMS-POTN-STRATUM-TOT.
072100     ADD ACRES-OWNER-TOT TO ACRES-STRATUM-TOT.
072200     MOVE ZERO TO ACRES-OWNER-TOT AUMS-PRES-OWNER-TOT
072300             ACRES-SWA-OWNER-TOT
072400             AUMS-POTN-OWNER-TOT.
072500     IF LINE-CNT > 47
072600             PERFORM H800-OFLO THRU H800-EXIT.
072700     MOVE RNG-SITE-PREV TO RNG-SITE-PREV-HLD.
072800     MOVE STRATUM-PREV TO STRATUM-PREV-HLD.
072900     MOVE COND-CLS-PREV TO COND-CLS-PREV-HLD.
073000     WRITE VM-COND-LIST-REC FROM PRINT-WORK.
073100     MOVE SPACE TO PRINT-WORK.
073200     ADD 1 TO LINE-CNT.
073300 D420-STRATUM-TOT.
073400*     DISPLAY "TC= " TOT-CNTL.
073500     MOVE SPACE TO COND-CLS-PREV-HLD.
073600     MOVE SPACE TO PRINT-TOT-WORK.
073700     MOVE "             TOTAL" TO REMARK-P2.
073800     MOVE ACRES-STRATUM-TOT TO ACRES-P2.
073900     MOVE AUMS-PRES-STRATUM-TOT TO EST-AUMS-PRES-P2.
074000     MOVE AUMS-POTN-STRATUM-TOT TO EST-AUMS-POTN-P2.
074100     ADD AUMS-PRES-STRATUM-TOT TO AUMS-PRES-PAST-TOT.
074200     ADD AUMS-POTN-STRATUM-TOT TO AUMS-POTN-PAST-TOT.
074300     ADD ACRES-STRATUM-TOT TO ACRES-PAST-TOT.
074400     MOVE ZERO TO ACRES-STRATUM-TOT AUMS-PRES-STRATUM-TOT
074500             AUMS-POTN-STRATUM-TOT.
074600     WRITE VM-COND-LIST-REC FROM PRINT-TOT-WORK.
074700     ADD 1 TO LINE-CNT.
074800 D425-PAST-TOT.
074900     ADD AUMS-PRES-PAST-TOT TO AUMS-PRES-ALOT-TOT.
075000     ADD AUMS-POTN-PAST-TOT TO AUMS-POTN-ALOT-TOT.
075100     ADD ACRES-PAST-TOT TO ACRES-ALOT-TOT.
075200     IF PAST-NUM-CNTL = SPACE OR ZERO
075300             MOVE ZERO TO ACRES-PAST-TOT AUMS-PRES-PAST-TOT
075400             AUMS-POTN-PAST-TOT
075500             MOVE 2 TO LINE-HLD
075600             GO TO D425-EXIT.
075700     MOVE 1 TO LINE-HLD.
075800     MOVE SPACE TO PRINT-TOT-WORK.
075900     MOVE "PASTURE TOTAL" TO REMARK-P2.

```

```

076000     MOVE ACRES-PAST-TOT TO ACRES-P2.
076100     MOVE AUMS-PRES-PAST-TOT TO EST-AUMS-PRES-P2.
076200     MOVE AUMS-POTN-PAST-TOT TO EST-AUMS-POTN-P2.
076300     MOVE ZERO TO ACRES-PAST-TOT AUMS-PRES-PAST-TOT
076400         AUMS-POTN-PAST-TOT.
076500     WRITE VM-COND-LIST-REC FROM PRINT-TOT-WORK
076600         AFTER ADVANCING 2 LINES.
076700     ADD 2 TO LINE-CNT.
076800 D425-EXIT.
076900     EXIT.
077000 D430-ALOT-TOT.
077100     MOVE SPACE TO PRINT-TOT-WORK.
077200     MOVE "ALLOTMENT TOTAL" TO REMARK-P2.
077300     MOVE ACRES-ALOT-TOT TO ACRES-P2.
077400     MOVE AUMS-PRES-ALOT-TOT TO EST-AUMS-PRES-P2.
077500     MOVE AUMS-POTN-ALOT-TOT TO EST-AUMS-POTN-P2.
077600     ADD AUMS-PRES-ALOT-TOT TO AUMS-PRES-PLU-TOT.
077700     ADD AUMS-POTN-ALOT-TOT TO AUMS-POTN-PLU-TOT.
077800     ADD ACRES-ALOT-TOT TO ACRES-PLU-TOT.
077900     MOVE ZERO TO ACRES-ALOT-TOT AUMS-PRES-ALOT-TOT
078000         AUMS-POTN-ALOT-TOT.
078100     WRITE VM-COND-LIST-REC FROM PRINT-TOT-WORK
078200         AFTER ADVANCING LINE-HLD LINES.
078300     ADD LINE-HLD TO LINE-CNT.
078400 D440-PLU-TOT.
078500     MOVE SPACE TO PRINT-TOT-WORK.
078600     MOVE "RA/PLU TOTAL" TO REMARK-P2.
078700     MOVE ACRES-PLU-TOT TO ACRES-P2.
078800     MOVE AUMS-PRES-PLU-TOT TO EST-AUMS-PRES-P2.
078900     MOVE AUMS-POTN-PLU-TOT TO EST-AUMS-POTN-P2.
079000     ADD AUMS-PRES-PLU-TOT TO AUMS-PRES-INV-TOT.
079100     ADD AUMS-POTN-PLU-TOT TO AUMS-POTN-INV-TOT.
079200     ADD ACRES-PLU-TOT TO ACRES-INV-TOT.
079300     MOVE ZERO TO ACRES-PLU-TOT AUMS-PRES-PLU-TOT
079400         AUMS-POTN-PLU-TOT.
079500     WRITE VM-COND-LIST-REC FROM PRINT-TOT-WORK.
079600     ADD 1 TO LINE-CNT.
079700 D450-INV-TOT.
079800     MOVE SPACE TO PRINT-TOT-WORK.
079900     MOVE "INVENTORY TOTAL" TO REMARK-P2.
080000     MOVE ACRES-INV-TOT TO ACRES-P2.
080100     MOVE AUMS-PRES-INV-TOT TO EST-AUMS-PRES-P2.
080200     MOVE AUMS-POTN-INV-TOT TO EST-AUMS-POTN-P2.
080300     WRITE VM-COND-LIST-REC FROM PRINT-TOT-WORK.
080400     ADD 1 TO LINE-CNT.
080500 D300-EXIT.
080600     EXIT.
080700 RNG-SORT-INPUT SECTION.
080800 E500-OPEN.
080900     CLOSE RNG-SITE-WORK-FILE.
081000     OPEN INPUT RNG-SITE-WORK-FILE.
081100 E510-READ-RNG-SITE.
081200     READ RNG-SITE-WORK-FILE AT END
081300         GO TO E500-EXIT.
081400     MOVE ADM-UNIT-W1 TO ADM-UNIT-SK2.
081500     MOVE ALLOT-NUM-W1 TO ALLOT-NUM-SK2.
081600     MOVE PAST-NUM-W1 TO PAST-NUM-SK2.

```

```

081700     MOVE RNG-SITE-W1 TO RNG-SITE-SK2.
081800     MOVE RNG-SITE-WORK-REC TO DATA-SK2.
081900     MOVE 1 TO KEY-SK2.
082000     RELEASE SORT-REC-2.
082100     MOVE SPACE TO SORT-REC-2.
082200     MOVE ADM-UNIT-W1 TO ADM-UNIT-SK2.
082300     MOVE RNG-SITE-W1 TO RNG-SITE-SK2.
082400     MOVE RNG-SITE-WORK-REC TO DATA-SK2.
082500     MOVE 2 TO KEY-SK2.
082600     RELEASE SORT-REC-2.
082700     MOVE SPACE TO SORT-REC-2.
082800     MOVE ADM-UNIT-W1 TO ADM-UNIT-SK2.
082900     MOVE ALLOT-NUM-W1 TO ALLOT-NUM-SK2.
083000     MOVE PAST-NUM-W1 TO PAST-NUM-SK2.
083100     MOVE OWNER-W1 TO OWNER-SK2.
083200     MOVE COND-SUB-W1 TO COND-SUB-SK2.
083300     MOVE RNG-SITE-WORK-REC TO DATA-SK2.
083400     MOVE 3 TO KEY-SK2.
083500     RELEASE SORT-REC-2.
083600     MOVE SPACE TO SORT-REC-2.
083700     MOVE ADM-UNIT-W1 TO ADM-UNIT-SK2.
083800     MOVE OWNER-W1 TO OWNER-SK2.
083900     MOVE COND-SUB-W1 TO COND-SUB-SK2.
084000     MOVE RNG-SITE-WORK-REC TO DATA-SK2.
084100     MOVE 4 TO KEY-SK2.
084200     RELEASE SORT-REC-2.
084300     GO TO E510-READ-RNG-SITE.
084400 E500-EXIT.
084500     EXIT.
084600 RNG-SUM-OUTPUT SECTION.
084700 E515-CLOSE.
084800     MOVE 1 TO OFLO-SW SDRP-SW.
084900     MOVE " (RANGE SITE ALLOTMENT SUMMARY)" TO HDR-4-REMARK.
085000     MOVE HDR-6B TO HDR-6.
085100     MOVE HDR-9 TO HDR-7.
085200     MOVE HDR-10 TO HDR-8.
085300     MOVE 99 TO LINE-CNT.
085400     CLOSE RNG-SITE-WORK-FILE.
085500     MOVE SPACE TO PRINT-TOT-WORK SDRP-HLD RNG-CNTL.
085600     MOVE ZERO TO ACRES-RNG-SITE-TOT AUMS-PRES-RNG-SITE-TOT
085700         AUMS-POTN-RNG-SITE-TOT.
085800 E520-RETURN.
085900     RETURN SORT-FILE-2 AT END
086000         DISPLAY "NO KEY2 SORT REC"
086100         STOP RUN.
086200*     DISPLAY "SR2= " SORT-REC-2.
086300         IF KEY-SK2 = 2
086400             MOVE 1 TO END-RNG-SW
086500             GO TO E530-RNG-TOT.
086600     MOVE DATA-SK2 TO RNG-SITE-WORK-REC-HLD.
086700     MOVE ADM-UNIT-H2 TO SDRP-HLD.
086800 E525-CHK-OFLO.
086900     IF OFLO-SW = 1
087000         MOVE 99 TO LINE-CNT
087100         MOVE ZERO TO OFLO-SW
087200         PERFORM G700-DB THRU H800-EXIT.
087300     IF RNG-CNTL = SPACE

```

```

087400         MOVE SORT-KEY-2 TO RNG-CNTL.
087500         IF (ADM-UNIT-SK2 NOT = ADM-UNIT-RNG-CNTL)
087600             MOVE 1 TO SDRP-SW OFLO-SW.
087700         IF SORT-KEY-2 = RNG-CNTL
087800             ADD EST-AUMS-PRES-H2 TO AUMS-PRES-RNG-SITE-TOT
087900             ADD EST-AUMS-POTN-H2 TO AUMS-POTN-RNG-SITE-TOT
088000             ADD ACRES-H2 TO ACRES-RNG-SITE-TOT
088100             GO TO E520-RETURN.
088200 E530-RNG-TOT.
088300*         DISPLAY "RC= " RNG-CNTL.
088400         MOVE SPACE TO PRINT-RNG-TOT-WORK.
088500         IF ALLOT-RNG-CNTL NOT = ALLOT-P3-HLD
088600             MOVE ALLOT-NUM-RNG-CNTL TO ALLOT-P3 ALLOT-NUM-P3-HLD
088700             MOVE PAST-NUM-RNG-CNTL TO PAST-P3 PAST-NUM-P3-HLD.
088800         MOVE RNG-SITE-RNG-CNTL TO RNG-SITE-P3.
088900         MOVE ACRES-RNG-SITE-TOT TO ACRES-P3.
089000         MOVE AUMS-PRES-RNG-SITE-TOT TO EST-AUMS-PRES-P3.
089100         MOVE AUMS-POTN-RNG-SITE-TOT TO EST-AUMS-POTN-P3.
089200         MOVE ZERO TO ACRES-RNG-SITE-TOT AUMS-PRES-RNG-SITE-TOT
089300             AUMS-POTN-RNG-SITE-TOT.
089400         IF LINE-CNT > 50
089500             PERFORM H800-OFLO THRU H800-EXIT.
089600         WRITE VM-COND-LIST-REC FROM PRINT-RNG-TOT-WORK
089700             AFTER ADVANCING 2 LINES.
089800         ADD 2 TO LINE-CNT.
089900         IF END-RNG-SW = 1 GO TO E540-RNG-SUM.
090000         MOVE SPACE TO RNG-CNTL.
090100         GO TO E525-CHK-OFLO.
090200 E540-RNG-SUM.
090300         MOVE " (RANGE SITE SUMMARY)" TO HDR-4-REMARK.
090400         MOVE SPACE TO RMK-H9.
090500         MOVE HDR-9 TO HDR-7.
090600         MOVE 99 TO LINE-CNT.
090700         MOVE SPACE TO PRINT-TOT-WORK SDRP-HLD RNG-CNTL.
090800         MOVE ZERO TO ACRES-PLU-TOT AUMS-PRES-PLU-TOT
090900             AUMS-POTN-PLU-TOT.
091000         MOVE ZERO TO ACRES-INV-TOT AUMS-PRES-INV-TOT
091100             AUMS-POTN-INV-TOT.
091200         MOVE DATA-SK2 TO RNG-SITE-WORK-REC-HLD.
091300         MOVE ADM-UNIT-H2 TO SDRP-HLD.
091400         GO TO E550-CHK-OFLO.
091500 E545-RETURN.
091600         RETURN SORT-FILE-2 AT END
091700             DISPLAY "NO KEY3 SORT REC"
091800             STOP RUN.
091900*         DISPLAY "SR2= " SORT-REC-2.
092000         IF KEY-SK2 = 3
092100             MOVE 1 TO END-RNG2-SW
092200             GO TO E550-RNG-SUM-TOT.
092300         MOVE DATA-SK2 TO RNG-SITE-WORK-REC-HLD.
092400         MOVE ADM-UNIT-H2 TO SDRP-HLD.
092500 E550-CHK-OFLO.
092600         IF OFLO-SW = 1
092700             MOVE 99 TO LINE-CNT
092800             MOVE ZERO TO OFLO-SW
092900             PERFORM G700-DB THRU H800-EXIT.
093000         IF RNG-CNTL = SPACE

```



```

093100         MOVE SORT-KEY-2 TO RNG-CNTL.
093200         IF (ADM-UNIT-SK2 NOT = ADM-UNIT-RNG-CNTL)
093300             MOVE 1 TO SDRP-SW OFLO-SW  ADM-SW
093400             GO TO E550-RNG-SUM-TOT.
093500         IF SORT-KEY-2 = RNG-CNTL
093600             ADD EST-AUMS-PRES-H2 TO AUMS-PRES-RNG-SITE-TOT
093700             ADD EST-AUMS-POTN-H2 TO AUMS-POTN-RNG-SITE-TOT
093800             ADD ACRES-H2 TO ACRES-RNG-SITE-TOT
093900             GO TO E545-RETURN.
094000         MOVE 1 TO RNG-SW.
094100 E550-RNG-SUM-TOT.
094200*        DISPLAY "RC= " RNG-CNTL.
094300         MOVE SPACE TO PRINT-RNG-TOT-WORK.
094400         MOVE RNG-SITE-RNG-CNTL TO RNG-SITE-P3.
094500         MOVE ACRES-RNG-SITE-TOT TO ACRES-P3.
094600         MOVE AUMS-PRES-RNG-SITE-TOT TO EST-AUMS-PRES-P3.
094700         MOVE AUMS-POTN-RNG-SITE-TOT TO EST-AUMS-POTN-P3.
094800         ADD AUMS-PRES-RNG-SITE-TOT TO AUMS-PRES-PLU-TOT.
094900         ADD AUMS-POTN-RNG-SITE-TOT TO AUMS-POTN-PLU-TOT.
095000         ADD ACRES-RNG-SITE-TOT TO ACRES-PLU-TOT.
095100         MOVE ZERO TO ACRES-RNG-SITE-TOT AUMS-PRES-RNG-SITE-TOT
095200             AUMS-POTN-RNG-SITE-TOT.
095300         IF LINE-CNT > 50
095400             PERFORM H800-OFLO THRU H800-EXIT.
095500         WRITE VM-COND-LIST-REC FROM PRINT-RNG-TOT-WORK
095600             AFTER ADVANCING 2 LINES.
095700         ADD 2 TO LINE-CNT.
095800         IF RNG-SW = 1
095900             MOVE SPACE TO RNG-CNTL
096000             MOVE ZERO TO RNG-SW
096100             GO TO E550-CHK-OFLO.
096200         MOVE SPACE TO PRINT-RNG-TOT-WORK.
096300         MOVE "RA/PLU TOTAL" TO REMARK-P3.
096400         MOVE ACRES-PLU-TOT TO ACRES-P3.
096500         MOVE AUMS-PRES-PLU-TOT TO EST-AUMS-PRES-P3.
096600         MOVE AUMS-POTN-PLU-TOT TO EST-AUMS-POTN-P3.
096700         ADD AUMS-PRES-PLU-TOT TO AUMS-PRES-INV-TOT.
096800         ADD AUMS-POTN-PLU-TOT TO AUMS-POTN-INV-TOT.
096900         ADD ACRES-PLU-TOT TO ACRES-INV-TOT.
097000         MOVE ZERO TO ACRES-PLU-TOT AUMS-PRES-PLU-TOT
097100             AUMS-POTN-PLU-TOT.
097200         IF LINE-CNT > 50
097300             PERFORM H800-OFLO THRU H800-EXIT.
097400         WRITE VM-COND-LIST-REC FROM PRINT-RNG-TOT-WORK
097500             AFTER ADVANCING 2 LINES.
097600         ADD 2 TO LINE-CNT.
097700         IF ADM-SW = 1
097800             MOVE SPACE TO RNG-CNTL
097900             MOVE ZERO TO ADM-SW
098000             GO TO E550-CHK-OFLO.
098100         MOVE SPACE TO PRINT-RNG-TOT-WORK.
098200         MOVE "INVENTORY TOTAL" TO REMARK-P3.
098300         MOVE ACRES-INV-TOT TO ACRES-P3.
098400         MOVE AUMS-PRES-INV-TOT TO EST-AUMS-PRES-P3.
098500         MOVE AUMS-POTN-INV-TOT TO EST-AUMS-POTN-P3.
098600         MOVE ZERO TO ACRES-PLU-TOT AUMS-PRES-PLU-TOT
098700             AUMS-POTN-PLU-TOT.

```

```

098800 MOVE ZERO TO ACRES-INV-TOT AUMS-PRES-INV-TOT
098900 AUMS-POTN-INV-TOT.
099000 IF LINE-CNT > 50
099100 PERFORM H800-OFLO THRU H800-EXIT.
099200 WRITE VM-COND-LIST-REC FROM PRINT-RNG-TOT-WORK
099300 AFTER ADVANCING 2 LINES.
099400 ADD 2 TO LINE-CNT.
099500 MOVE SPACE TO RNG-CNTL.
099600 E560-OWNER-SUM.
099700 MOVE 1 TO OFLO-SW SDRP-SW.
099800 MOVE " (OWNER ALLOTMENT SUMMARY )" TO HDR-4-REMARK.
099900 MOVE HDR-11 TO HDR-7.
100000 MOVE HDR-12 TO HDR-8.
100100 MOVE 99 TO LINE-CNT.
100200 MOVE SPACE TO PRINT-RNG-TOT-WORK SDRP-HLD RNG-CNTL.
100300 MOVE ZERO TO ACRES-OWNER-TOT AUMS-PRES-OWNER-TOT
100400 AUMS-POTN-OWNER-TOT.
100500 MOVE ZERO TO ACRES-COND-TOT AUMS-PRES-COND-TOT
100600 AUMS-POTN-COND-TOT.
100700 MOVE DATA-SK2 TO RNG-SITE-WORK-REC-HLD.
100800 MOVE ADM-UNIT-H2 TO SDRP-HLD.
100900 GO TO E570-CHK-OFLO.
101000 E565-RETURN.
101100 RETURN SORT-FILE-2 AT END
101200 DISPLAY "NO KEY4 SORT REC"
101300 STOP RUN.
101400* DISPLAY "SR2= " SORT-REC-2.
101500 IF KEY-SK2 = 4
101600 MOVE 1 TO END-OWN-SW
101700 GO TO E575-OWN-TOT.
101800 MOVE DATA-SK2 TO RNG-SITE-WORK-REC-HLD.
101900 MOVE ADM-UNIT-H2 TO SDRP-HLD.
102000 E570-CHK-OFLO.
102100 IF OFLO-SW = 1
102200 MOVE 99 TO LINE-CNT
102300 MOVE ZERO TO OFLO-SW
102400 MOVE ALLOT-NUM-H2 TO HDR-ALOT
102500 MOVE PAST-NUM-H2 TO HDR-PAST
102600 MOVE HDR-6A TO HDR-6
102700 PERFORM G700-DB THRU H800-EXIT.
102800 IF RNG-CNTL = SPACE
102900 MOVE SORT-KEY-2 TO RNG-CNTL.
103000 IF (ADM-UNIT-SK2 NOT = ADM-UNIT-RNG-CNTL)
103100 MOVE 1 TO SDRP-SW.
103200 IF (ADM-UNIT-SK2 NOT = ADM-UNIT-RNG-CNTL)
103300 OR (ALLOT-SK2 NOT = ALLOT-RNG-CNTL)
103400 MOVE 1 TO OFLO-SW
103500 GO TO E575-OWN-TOT.
103600 IF (OWNER-SK2 NOT = OWNER-RNG-CNTL)
103700 GO TO E575-OWN-TOT.
103800 IF SORT-KEY-2 = RNG-CNTL
103900 ADD EST-AUMS-PRES-H2 TO AUMS-PRES-COND-TOT
104000 ADD EST-AUMS-POTN-H2 TO AUMS-POTN-COND-TOT
104100 ADD ACRES-H2 TO ACRES-COND-TOT
104200 GO TO E565-RETURN.
104300 MOVE 1 TO COND-SW.
104400 E575-OWN-TOT.

```

```

104500 MOVE SPACE TO PRINT-OWN-TOT-WORK.
104600 IF OWNER-P4-HLD NOT = OWNER-RNG-CNTL
104700     MOVE OWNER-RNG-CNTL TO OWNER-P4-HLD OWNER-P4.
104800 MOVE ACRES-COND-TOT TO ACRES-P4.
104900 MOVE AUMS-PRES-COND-TOT TO EST-AUMS-PRES-P4.
105000 MOVE AUMS-POTN-COND-TOT TO EST-AUMS-POTN-P4.
105100 MOVE COND-TB (COND-SUB-RNG-CNTL) TO COND-P4.
105200 ADD AUMS-PRES-COND-TOT TO AUMS-PRES-OWNER-TOT.
105300 ADD AUMS-POTN-COND-TOT TO AUMS-POTN-OWNER-TOT.
105400 ADD ACRES-COND-TOT TO ACRES-OWNER-TOT.
105500 MOVE ZERO TO ACRES-COND-TOT AUMS-PRES-COND-TOT
105600     AUMS-POTN-COND-TOT.
105700 IF LINE-CNT > 50
105800     PERFORM H800-OFLO THRU H800-EXIT.
105900 WRITE VM-COND-LIST-REC FROM PRINT-OWN-TOT-WORK
106000     AFTER ADVANCING 1 LINES.
106100 ADD 1 TO LINE-CNT.
106200 IF COND-SW = 1
106300     MOVE ZERO TO COND-SW
106400     MOVE SPACE TO RNG-CNTL
106500     GO TO E570-CHK-OFLO.
106600 MOVE SPACE TO PRINT-OWN-TOT-WORK.
106700 MOVE "          TOTAL          " TO REMARK-P4.
106800 MOVE ACRES-OWNER-TOT TO ACRES-P4.
106900 MOVE AUMS-PRES-OWNER-TOT TO EST-AUMS-PRES-P4.
107000 MOVE AUMS-POTN-OWNER-TOT TO EST-AUMS-POTN-P4.
107100 MOVE ZERO TO ACRES-OWNER-TOT AUMS-PRES-OWNER-TOT
107200     AUMS-POTN-OWNER-TOT.
107300 IF LINE-CNT > 50
107400     PERFORM H800-OFLO THRU H800-EXIT.
107500 WRITE VM-COND-LIST-REC FROM PRINT-OWN-TOT-WORK
107600     AFTER ADVANCING 1 LINES.
107700 WRITE VM-COND-LIST-REC FROM P-SPACE
107800     AFTER ADVANCING 1 LINES.
107900 ADD 2 TO LINE-CNT.
108000 IF END-OWN-SW = 1
108100     GO TO E580-OWN-SUM-TOT.
108200 MOVE SPACE TO RNG-CNTL OWNER-P4-HLD.
108300 GO TO E570-CHK-OFLO.
108400 E580-OWN-SUM-TOT.
108500 MOVE " (OWNER SUMMARY )" TO HDR-4-REMARK.
108600 MOVE 1 TO OFLO-SW SDRP-SW.
108700 MOVE HDR-6B TO HDR-6.
108800 MOVE 99 TO LINE-CNT.
108900 MOVE SPACE TO PRINT-RNG-TOT-WORK SDRP-HLD RNG-CNTL
109000     OWNER-P4-HLD.
109100 MOVE ZERO TO ACRES-OWNER-TOT AUMS-PRES-OWNER-TOT
109200     AUMS-POTN-OWNER-TOT.
109300 MOVE ZERO TO ACRES-COND-TOT AUMS-PRES-COND-TOT
109400     AUMS-POTN-COND-TOT.
109500 MOVE ZERO TO ACRES-PLU-TOT AUMS-PRES-PLU-TOT
109600     AUMS-POTN-PLU-TOT.
109700 MOVE ZERO TO ACRES-INV-TOT AUMS-PRES-INV-TOT
109800     AUMS-POTN-INV-TOT.
109900 MOVE DATA-SK2 TO RNG-SITE-WORK-REC-HLD.
110000 MOVE ADM-UNIT-H2 TO SDRP-HLD.
110100 GO TO E590-CHK-OFLO.

```

```

110200 E585-RETURN.
110300     RETURN SORT-FILE-2 AT END
110400         MOVE 1 TO END-OWN2-SW
110500         GO TO E595-OWN-SUM-TOT.
110600*      DISPLAY "SR2= " SORT-REC-2.
110700         MOVE DATA-SK2 TO RNG-SITE-WORK-REC-HLD.
110800         MOVE ADM-UNIT-H2 TO SDRP-HLD.
110900 E590-CHK-OFLO.
111000     IF OFLO-SW = 1
111100         MOVE 99 TO LINE-CNT
111200         MOVE ZERO TO OFLO-SW
111300         PERFORM G700-DB THRU H800-EXIT.
111400     IF RNG-CNTL = SPACE
111500         MOVE SORT-KEY-2 TO RNG-CNTL.
111600     IF (ADM-UNIT-SK2 NOT = ADM-UNIT-RNG-CNTL)
111700         MOVE 1 TO SDRP-SW OFLO-SW ADM-SW
111800         GO TO E595-OWN-SUM-TOT.
111900     IF (OWNER-SK2 NOT = OWNER-RNG-CNTL)
112000         MOVE 1 TO OWN-SW
112100         GO TO E595-OWN-SUM-TOT.
112200     IF SORT-KEY-2 = RNG-CNTL
112300         ADD EST-AUMS-PRES-H2 TO AUMS-PRES-COND-TOT
112400         ADD EST-AUMS-POTN-H2 TO AUMS-POTN-COND-TOT
112500         ADD ACRES-H2 TO ACRES-COND-TOT
112600         GO TO E585-RETURN.
112700     MOVE 1 TO COND-SW.
112800 E595-OWN-SUM-TOT.
112900     ADD ACRES-COND-TOT TO
113000         ACRES-PLU-SUM.
113100     ADD ACRES-COND-TOT TO
113200         ACRES-COND-PLU-SUM (COND-SUB-RNG-CNTL).
113300     ADD AUMS-PRES-COND-TOT TO
113400         AUMS-PRES-COND-PLU-SUM (COND-SUB-RNG-CNTL).
113500     ADD AUMS-POTN-COND-TOT TO
113600         AUMS-POTN-COND-PLU-SUM (COND-SUB-RNG-CNTL).
113700     MOVE SPACE TO PRINT-OWN-TOT-WORK.
113800     IF OWNER-P4-HLD NOT = OWNER-RNG-CNTL
113900         MOVE OWNER-RNG-CNTL TO OWNER-P4-HLD OWNER-P4.
114000     MOVE ACRES-COND-TOT TO ACRES-P4.
114100     MOVE AUMS-PRES-COND-TOT TO EST-AUMS-PRES-P4.
114200     MOVE AUMS-POTN-COND-TOT TO EST-AUMS-POTN-P4.
114300     MOVE COND-TB (COND-SUB-RNG-CNTL) TO COND-P4.
114400     ADD AUMS-PRES-COND-TOT TO AUMS-PRES-OWNER-TOT.
114500     ADD AUMS-POTN-COND-TOT TO AUMS-POTN-OWNER-TOT.
114600     ADD ACRES-COND-TOT TO ACRES-OWNER-TOT.
114700     MOVE ZERO TO ACRES-COND-TOT AUMS-PRES-COND-TOT
114800         AUMS-POTN-COND-TOT.
114900     IF LINE-CNT > 50
115000         PERFORM H800-OFLO THRU H800-EXIT.
115100     WRITE VM-COND-LIST-REC FROM PRINT-OWN-TOT-WORK
115200         AFTER ADVANCING 1 LINES.
115300     ADD 1 TO LINE-CNT.
115400     IF COND-SW = 1
115500         MOVE ZERO TO COND-SW
115600         MOVE SPACE TO RNG-CNTL
115700         GO TO E590-CHK-OFLO.
115800     MOVE SPACE TO PRINT-OWN-TOT-WORK.

```

```

115900 MOVE " TOTAL " TO REMARK-P4.
116000 MOVE ACRES-OWNER-TOT TO ACRES-P4.
116100 MOVE AUMS-PRES-OWNER-TOT TO EST-AUMS-PRES-P4.
116200 MOVE AUMS-POTN-OWNER-TOT TO EST-AUMS-POTN-P4.
116300 ADD AUMS-PRES-OWNER-TOT TO AUMS-PRES-PLU-TOT.
116400 ADD AUMS-POTN-OWNER-TOT TO AUMS-POTN-PLU-TOT.
116500 ADD ACRES-OWNER-TOT TO ACRES-PLU-TOT.
116600 MOVE ZERO TO ACRES-OWNER-TOT AUMS-PRES-OWNER-TOT
116700 AUMS-POTN-OWNER-TOT.
116800 IF LINE-CNT > 50
116900 PERFORM H800-OFLO THRU H800-EXIT.
117000 WRITE VM-COND-LIST-REC FROM PRINT-OWN-TOT-WORK
117100 AFTER ADVANCING 1 LINES.
117200 ADD 1 TO LINE-CNT.
117300 IF OWN-SW = 1
117400 MOVE ZERO TO OWN-SW
117500 MOVE SPACE TO RNG-CNTL
117600 WRITE VM-COND-LIST-REC FROM P-SPACE
117700 AFTER ADVANCING 1 LINES
117800 ADD 1 TO LINE-CNT
117900 GO TO E590-CHK-OFLO.
118000 MOVE HDR-13 TO HDR-7.
118100 MOVE HDR-14 TO HDR-8.
118200 MOVE ZERO TO COND-SUB.
118300 MOVE " (CONDITION SUMMARY )" TO HDR-4-REMARK.
118400 PERFORM H800-OFLO THRU H800-EXIT.
118500 E596-LP-COND.
118600 MOVE SPACE TO PRINT-OWN-SUM-WORK.
118700 IF COND-SUB = 5
118800 GO TO E597-PLU-TOT.
118900 ADD 1 TO COND-SUB.
119000 MOVE ACRES-COND-PLU-SUM (COND-SUB) TO ACRES-CAL.
119100 MULTIPLY 100 BY ACRES-CAL.
119200 DIVIDE ACRES-CAL BY ACRES-PLU-SUM
119300 GIVING PCT-CAL ROUNDED.
119400 MOVE PCT-CAL TO PCT-P5.
119500 MOVE ACRES-COND-PLU-SUM (COND-SUB) TO ACRES-P5.
119600 MOVE AUMS-PRES-COND-PLU-SUM (COND-SUB) TO EST-AUMS-PRES-P5.
119700 MOVE AUMS-POTN-COND-PLU-SUM (COND-SUB) TO EST-AUMS-POTN-P5.
119800 MOVE COND-TB (COND-SUB) TO COND-P5.
119900 ADD ACRES-COND-PLU-SUM (COND-SUB) TO
120000 ACRES-COND-INV-SUM (COND-SUB).
120100 ADD AUMS-PRES-COND-PLU-SUM (COND-SUB) TO
120200 AUMS-PRES-COND-INV-SUM (COND-SUB).
120300 ADD AUMS-POTN-COND-PLU-SUM (COND-SUB) TO
120400 AUMS-POTN-COND-INV-SUM (COND-SUB).
120500 WRITE VM-COND-LIST-REC FROM PRINT-OWN-SUM-WORK
120600 AFTER ADVANCING 1 LINES.
120700 GO TO E596-LP-COND.
120800 E597-PLU-TOT.
120900 MOVE ZERO TO COND-PLU-SUM.
121000 ADD ACRES-PLU-SUM TO ACRES-INV-SUM.
121100 MOVE ZERO TO ACRES-PLU-SUM.
121200 MOVE SPACE TO PRINT-OWN-SUM-WORK.
121300 MOVE "RA/PLU TOTAL " TO REMARK-P5.
121400 MOVE ACRES-PLU-TOT TO ACRES-P5.
121500 MOVE AUMS-PRES-PLU-TOT TO EST-AUMS-PRES-P5.

```

```

121600 MOVE AUMS-POTN-PLU-TOT TO EST-AUMS-POTN-P5.
121700 ADD AUMS-PRES-PLU-TOT TO AUMS-PRES-INV-TOT.
121800 ADD AUMS-POTN-PLU-TOT TO AUMS-POTN-INV-TOT.
121900 ADD ACRES-PLU-TOT TO ACRES-INV-TOT.
122000 MOVE ZERO TO ACRES-PLU-TOT AUMS-PRES-PLU-TOT
122100 AUMS-POTN-PLU-TOT.
122200 WRITE VM-COND-LIST-REC FROM PRINT-OWN-SUM-WORK
122300 AFTER ADVANCING 2 LINES.
122400 ADD 2 TO LINE-CNT.
122500 IF ADM-SW = 1
122600 MOVE 1 TO INV-SW
122700 MOVE HDR-11 TO HDR-7
122800 MOVE HDR-12 TO HDR-8
122900 MOVE " (OWNER SUMMARY )" TO HDR-4-REMARK
123000 MOVE ZERO TO ADM-SW
123100 MOVE SPACE TO RNG-CNTL
123200 GO TO E590-CHK-OFLO.
123300 IF INV-SW = ZERO
123400 GO TO E550-EXIT.
123500 WRITE VM-COND-LIST-REC FROM P-SPACE
123600 AFTER ADVANCING 1 LINES.
123700 MOVE ZERO TO COND-SUB.
123800 E598-LP-COND.
123900 MOVE SPACE TO PRINT-OWN-SUM-WORK.
124000 IF COND-SUB = 5
124100 GO TO E599-INV-TOT.
124200 ADD 1 TO COND-SUB.
124300 MOVE ACRES-COND-INV-SUM (COND-SUB) TO ACRES-CAL.
124400 MULTIPLY 100 BY ACRES-CAL.
124500 DIVIDE ACRES-CAL BY ACRES-INV-SUM
124600 GIVING PCT-CAL ROUNDED.
124700 MOVE PCT-CAL TO PCT-P5.
124800 MOVE ACRES-COND-INV-SUM (COND-SUB) TO ACRES-P5.
124900 MOVE AUMS-PRES-COND-INV-SUM (COND-SUB) TO EST-AUMS-PRES-P5.
125000 MOVE AUMS-POTN-COND-INV-SUM (COND-SUB) TO EST-AUMS-POTN-P5.
125100 MOVE COND-TB (COND-SUB) TO COND-P5.
125200 WRITE VM-COND-LIST-REC FROM PRINT-OWN-SUM-WORK
125300 AFTER ADVANCING 1 LINES.
125400 GO TO E598-LP-COND.
125500 E599-INV-TOT.
125600 MOVE SPACE TO PRINT-OWN-SUM-WORK.
125700 MOVE "INVENTORY TOTAL " TO REMARK-P5.
125800 MOVE ACRES-INV-TOT TO ACRES-P5.
125900 MOVE AUMS-PRES-INV-TOT TO EST-AUMS-PRES-P5.
126000 MOVE AUMS-POTN-INV-TOT TO EST-AUMS-POTN-P5.
126100 WRITE VM-COND-LIST-REC FROM PRINT-OWN-SUM-WORK
126200 AFTER ADVANCING 2 LINES.
126300 GO TO E550-EXIT.
126400 F600-DB.
126500 MOVE INVENTORY TO HDR-INV-A HDR-INV-B.
126600 MOVE INVENTORY TO DE-CD-8822-DEC.
126700 MOVE 3940 TO DE-NO-8801-DEC.
126800 FIND ANY CODE-DEC.
126900 MOVE DB-STATUS TO DB-STAT.
127000 IF NOT OK
127100 MOVE "UNKNOWN" TO HDR-INV-NAM-A HDR-INV-NAM-B
127200 GO TO F600-EXIT.

```

```

127300 GET CODE-DEC.
127400 MOVE DB-STATUS TO DB-STAT.
127500 IF NOT OK
127600     MOVE "UNKNOWN" TO HDR-INV-NAM-A HDR-INV-NAM-B
127700     GO TO F600-EXIT.
127800 MOVE DE-CD-NAM-8823-DEC TO INV-HLD.
127900 MOVE INV-NAME TO HDR-INV-NAM-A HDR-INV-NAM-B.
128000* MOVE INV-SD TO SD-HLD.
128100* MOVE ST-HLD TO HDR-ST.
128200* MOVE DS-HLD TO HDR-DIST.
128300 F600-EXIT.
128400 EXIT.
128500 G700-DB.
128600 IF SDRP-SW = ZERO
128700     GO TO G700-EXIT.
128800 MOVE ZERO TO SDRP-SW.
128900 MOVE ST-HLD TO HDR-ST.
129000 MOVE DS-HLD TO HDR-DIST.
129100 MOVE RA-HLD TO HDR-RA.
129200 MOVE PLU-HLD TO HDR-PLU.
129300 MOVE SDRP-HLD TO DE-CD-8822-DEC.
129400 MOVE 0003 TO DE-NO-8801-DEC.
129500 FIND ANY CODE-DEC.
129600 MOVE DB-STATUS TO DB-STAT.
129700 IF NOT OK
129800     MOVE "UNKNOWN" TO HDR-ST-NAM HDR-DIST-NAM
129900     HDR-RA-NAM HDR-PLU-NAM
130000     GO TO G700-EXIT.
130100 GET CODE-DEC.
130200 MOVE DB-STATUS TO DB-STAT.
130300 IF NOT OK
130400     MOVE "UNKNOWN" TO HDR-ST-NAM HDR-DIST-NAM
130500     HDR-RA-NAM HDR-PLU-NAM
130600     GO TO G700-EXIT.
130700 MOVE DE-CD-NAM-8823-DEC TO ST-NAM-HLD.
130800 MOVE ST-NAME TO HDR-ST-NAM.
130900 FIND NEXT CODE-EXPL-DECE
131000     WITHIN DEC-DECE.
131100 MOVE DB-STATUS TO DB-STAT.
131200 IF NOT OK
131300     MOVE "UNKNOWN" TO HDR-DIST-NAM
131400     HDR-RA-NAM HDR-PLU-NAM
131500     GO TO G700-EXIT.
131600 GET CODE-EXPL-DECE.
131700 MOVE DB-STATUS TO DB-STAT.
131800 IF NOT OK
131900     MOVE "UNKNOWN" TO HDR-DIST-NAM
132000     HDR-RA-NAM HDR-PLU-NAM
132100     GO TO G700-EXIT.
132200 MOVE DE-CD-EXPLN-8827-DECE TO DRP-NAM-HLD.
132300 MOVE RA-NAME TO HDR-RA-NAM.
132400 MOVE PU-NAME TO HDR-PLU-NAM.
132500 MOVE DS-NAME TO HDR-DIST-NAM.
132600 G700-EXIT.
132700 EXIT.
132800 H800-OFLO.
132900 MOVE 10 TO LINE-CNT.

```

```

133000 MOVE SPACE TO RNG-SITE-PREV-HLD STRATUM-PREV-HLD.
133100 ADD 1 TO PG-CNT.
133200 MOVE PG-CNT TO HDR-PG.
133300 WRITE VM-COND-LIST-REC FROM HDR-1 AFTER ADVANCING PAGE.
133400 WRITE VM-COND-LIST-REC FROM HDR-2 AFTER 1 LINE.
133500 WRITE VM-COND-LIST-REC FROM HDR-3 AFTER 1 LINE.
133600 WRITE VM-COND-LIST-REC FROM HDR-4 AFTER 1 LINE.
133700 WRITE VM-COND-LIST-REC FROM HDR-5 AFTER 1 LINE.
133800 WRITE VM-COND-LIST-REC FROM HDR-6 AFTER 1 LINE.
133900 WRITE VM-COND-LIST-REC FROM HDR-7 AFTER 2 LINES.
134000 WRITE VM-COND-LIST-REC FROM HDR-8 AFTER 1 LINE.
134100 WRITE VM-COND-LIST-REC FROM P-SPACE AFTER 1 LINE.
134200 H800-EXIT.
134300 EXIT.
134400 E550-EXIT.
134500 EXIT.
134600 DUMMY SECTION.
134700 H900-END.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES530M.
000300* SWAT CLIMATIC ADJUSTMENT FILE CREATION.
000400*
000500 AUTHOR. EARL BEAM.
000600 INSTALLATION. USBLM.
000700 DATE-WRITTEN. SEPTEMBER 4, 1979.
000800 DATE-COMPILED. SEPTEMBER 7, 1979.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.
001200 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001300 INPUT-OUTPUT SECTION.
001400 FILE-CONTROL.
001500 SELECT SWAT-FILE
001600 ASSIGN TO D1
001700 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
001800 ACCESS IS SEQUENTIAL.
001900 SELECT SWA-FILE
002000 ASSIGN TO D2
002100 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002200 ACCESS IS SEQUENTIAL.
002300 SELECT SWA-CLIM-FILE
002400 ASSIGN TO D3
002500 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002600 DATA DIVISION.
002700 FILE SECTION.
002800 FD SWAT-FILE
002900 CODE-SET IS GBCD
003000 LABEL RECORDS ARE STANDARD
003100 DATA RECORD IS SWAT-REC.
003200 01 SWAT-REC.
003300 05 ADST-CD PIC XX.
003400 05 DIST-CD PIC XX.
003500 05 RA-CD PIC XX.
003600 05 PLU-CD PIC XX.
003700 05 FILLER PIC X(6).
003800 05 SWA-CD PIC X(4).

```



003900 05 TRN-CD PIC XX.  
004000 05 REC-KEY PIC X.  
004100 05 FILLER PIC X(7).  
004200 05 COMPR-ID PIC X.  
004300 05 FILLER PIC X(37).  
004400 FD SWA-FILE  
004500 CODE-SET IS GBCD  
004600 LABEL RECORDS ARE STANDARD  
004700 DATA RECORD IS SWA-REC.  
004800 01 SWA-REC.  
004900 05 SDRPS-D2.  
005000 07 ST-D2 PIC XX.  
005100 07 DIS-D2 PIC XX.  
005200 07 RA-D2 PIC XX.  
005300 07 PLU-D2 PIC XX.  
005400 07 SWAT-D2 PIC X(6).  
005500 05 DATA-D2 PIC X(24).  
005600 05 FILLER PIC X.  
005700 05 CLIM-ADJ-FACTOR-D2 PIC 99V999.  
005800 05 FILLER PIC X(4).  
005900 FD SWA-CLIM-FILE  
006000 CODE-SET IS GBCD  
006100 LABEL RECORDS ARE STANDARD  
006200 DATA RECORD IS SWA-CLIM-REC.  
006300 01 SWA-CLIM-REC.  
006400 05 SDRPS-D3.  
006500 07 ST-D3 PIC XX.  
006600 07 DIS-D3 PIC XX.  
006700 07 RA-D3 PIC XX.  
006800 07 PLU-D3 PIC XX.  
006900 07 SWAT-D3 PIC X(6).  
007000 05 DATA-D3 PIC X(24).  
007100 05 COMPARISON-AREA PIC X.  
007200 05 CLIM-ADJ-FACTOR-D3 PIC 99V999.  
007300 05 FILLER PIC X(4).  
007400 WORKING-STORAGE SECTION.  
007500 77 SWA-CNT PIC 9(8) VALUE ZERO.  
007600 77 SWAT-CNT PIC 9(8) VALUE ZERO.  
007700 77 CLIM-CNT PIC 9(8) VALUE ZERO.  
007800 77 DISPLAY-COUNT PIC 9(8) VALUE ZERO.  
007900 77 MATCH-COUNT PIC 9(8) VALUE ZERO.  
008000 77 MASTER-EOF-SW PIC 9 VALUE ZERO.  
008100 77 UPDATE-EOF-SW PIC 9 VALUE ZERO.  
008200 01 DISP-MSG.  
008300 05 DISP-MSG-1 PIC X(33) VALUE  
008400 "NO VB STRATUM RECORD FOR THE FOLL".  
008500 05 DISP-MSG-2 PIC X(34) VALUE  
008600 "OWING ST,DIST,RA,PLU,SWA,TRANSECT ".  
008700 01 SDRPS-HLD.  
008800 05 ADST-KEY PIC XX.  
008900 05 DIST-KEY PIC XX.  
009000 05 RA-KEY PIC XX.  
009100 05 PLU-KEY PIC XX.  
009200 05 SWA-KEY PIC X(4).  
009300 05 TRN-KEY PIC XX.  
009400 PROCEDURE DIVISION.  
009500 005-HOUSEKEEPING.

```

009600     OPEN INPUT SWAT-FILE, SWA-FILE.
009700     OPEN OUTPUT SWA-CLIM-FILE.
009800     DISPLAY DISP-MSG.
009900 100-MAINLINE.
010000     PERFORM 200-READ-MASTER THRU 299-EXIT.
010100     IF MASTER-EOF-SW = 1
010200         MOVE HIGH-VALUES TO SDRPS-D2.
010300 110-MAINLINE.
010400     PERFORM 150-READ-UPDATE THRU 199-EXIT.
010500     IF UPDATE-EOF-SW = 1
010600         MOVE SPACES TO COMPARISON-AREA
010700         PERFORM 300-MASTER-WRITE
010800         PERFORM 200-READ-MASTER THRU 300-MASTER-WRITE
010900         UNTIL MASTER-EOF-SW = 1
011000         GO TO 900-EOJ.
011100 120-MAINLINE.
011200     IF SDRPS-HLD GREATER THAN SDRPS-D2
011300         MOVE SPACES TO COMPARISON-AREA
011400         PERFORM 300-MASTER-WRITE
011500         PERFORM 100-MAINLINE
011600         GO TO 120-MAINLINE.
011700     IF SDRPS-D2 GREATER THAN SDRPS-HLD
011800         PERFORM 400-DISPLAY THRU 499-EXIT
011900         GO TO 110-MAINLINE.
012000     ADD 1 TO MATCH-COUNT.
012100     IF COMPR-ID EQUAL "C"
012200         MOVE "C" TO COMPARISON-AREA
012300     ELSE
012400         MOVE SPACES TO COMPARISON-AREA.
012500     PERFORM 300-MASTER-WRITE.
012600     GO TO 100-MAINLINE.
012700 150-READ-UPDATE.
012800     IF UPDATE-EOF-SW = 1
012900         GO TO 199-EXIT.
013000     READ SWAT-FILE
013100         AT END MOVE 1 TO UPDATE-EOF-SW
013200         GO TO 199-EXIT.
013300     IF REC-KEY NOT = 1
013400         GO TO 150-READ-UPDATE.
013500     ADD 1 TO SWAT-CNT.
013600     MOVE ADST-CD TO ADST-KEY.
013700     MOVE DIST-CD TO DIST-KEY.
013800     MOVE RA-CD TO RA-KEY.
013900     MOVE PLU-CD TO PLU-KEY.
014000     MOVE SWA-CD TO SWA-KEY.
014100     MOVE TRN-CD TO TRN-KEY.
014200 199-EXIT.
014300     EXIT.
014400 200-READ-MASTER.
014500     IF MASTER-EOF-SW = 1
014600         GO TO 299-EXIT.
014700     READ SWA-FILE
014800         AT END MOVE 1 TO MASTER-EOF-SW
014900         GO TO 299-EXIT.
015000     ADD 1 TO SWA-CNT.
015100 299-EXIT.
015200     EXIT.

```

```

015300 300-MASTER-WRITE.
015400     MOVE SDRPS-D2 TO SDRPS-D3.
015500     MOVE DATA-D2 TO DATA-D3.
015600     MOVE CLIM-ADJ-FACTOR-D2 TO CLIM-ADJ-FACTOR-D3.
015700     IF MASTER-EOF-SW NOT = 1
015800         WRITE SWA-CLIM-REC
015900         ADD 1 TO CLIM-CNT.
016000 400-DISPLAY.
016100     DISPLAY ADST-CD " " DIST-CD " " RA-CD " "
016200     PLU-CD " " SWA-CD TRN-CD.
016300     ADD 1 TO DISPLAY-COUNT.
016400 499-EXIT.
016500     EXIT.
016600 900-EOJ.
016700     DISPLAY "SWA INPUT= " SWA-CNT.
016800     DISPLAY "SWAT INPUT= " SWAT-CNT.
016900     DISPLAY "CLIM-ADJ OUTPUT= " CLIM-CNT.
017000     CLOSE SWAT-FILE, SWA-FILE, SWA-CLIM-FILE.
017100     STOP RUN.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES540P.
000300*     INVENTORY PLANT LIST (P3)
000400*
000500 AUTHOR. RON BAKER.
000600 DATE-WRITTEN. 03/10/81.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400     SELECT FIL-D1             ASSIGN TO D1
001500     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600     SELECT FIL-I1             ASSIGN TO I1
001700     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800     SELECT OPTIONAL FIL-I2    ASSIGN TO I2
001900     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000     SELECT FIL-P1             ASSIGN TO P1
002100     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002200     SELECT FIL-S1             ASSIGN TO S1
002300     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002400     SELECT FIL-S2             ASSIGN TO S2
002500     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002600 DATA DIVISION.
002700 SUB-SCHEMA SECTION.
002800 DB CODVAL2 WITHIN BLMDIC.
002900 FILE SECTION.
003000 FD FIL-D1
003100     CODE-SET IS GBCD
003200     LABEL RECORDS ARE STANDARD
003300     DATA RECORD IS REC-D1.
003400 01 REC-D1 PIC X(132).
003500 FD FIL-I1
003600     CODE-SET IS GBCD
003700     LABEL RECORDS ARE STANDARD

```

003800 DATA RECORDS ARE REC-V11A-I1,  
 003900 REC-V12A-I1,  
 004000 REC-V13A-I1,  
 004100 REC-V21A-I1,  
 004200 REC-V31A-I1.  
 004300 01 REC-V11A-I1.  
 004400 03 FILLER PIC XXXX.  
 004500 03 REC-I1.  
 004600 05 REC-TYP-V11A-I1 PIC XX.  
 004700 05 FMT-NUM-V11A-I1 PIC X.  
 004800 03 FMT-CD-V11A-I1 PIC X.  
 004900 03 ST-DS-I1 PIC XXXX.  
 005000 03 FILLER PIC X(132).  
 005100 01 REC-V12A-I1.  
 005200 03 FILLER PIC X(48).  
 005300 03 PLANT-CD-V12A-I1.  
 005400 05 FILLER PIC X.  
 005500 05 PLT1-V12A-I1 PIC X(7).  
 005600 05 FILLER PIC X.  
 005700 05 PLT2-V12A-I1 PIC X(7).  
 005800 05 FILLER PIC X.  
 005900 05 PLT3-V12A-I1 PIC X(7).  
 006000 05 FILLER PIC X.  
 006100 05 PLT4-V12A-I1 PIC X(7).  
 006200 03 FILLER PIC X(64).  
 006300 01 REC-V13A-I1.  
 006400 03 FILLER PIC X(44).  
 006500 03 PLANT-CD-V13A-A-I1 PIC X(39).  
 006600 03 PLANT-CD-V13A-B-I1 PIC X(39).  
 006700 03 FILLER PIC X(22).  
 006800 01 REC-V21A-I1.  
 006900 03 FILLER PIC X(47).  
 007000 03 PLANT-CD-V21A-I1 PIC X(7).  
 007100 03 FILLER PIC X(90).  
 007200 01 REC-V31A-I1.  
 007300 03 FILLER PIC X(53).  
 007400 03 PLANT-CD-V31A-I1 PIC X(7).  
 007500 03 FILLER PIC X(84).  
 007600 FD FIL-I2  
 007700 CODE-SET IS GBCD  
 007800 LABEL RECORDS ARE STANDARD  
 007900 DATA RECORDS ARE REC-V12A-I2.  
 008000 01 REC-V12A-I2.  
 008100 03 FILLER PIC X(04).  
 008200 03 REC-I2.  
 008300 05 REC-TYP-V12A-I2 PIC XX.  
 008400 05 FMT-NUM-V12A-I2 PIC X.  
 008500 03 FILLER PIC X(41).  
 008600 03 PLANT-CD-V12A-I2.  
 008700 05 FILLER PIC X.  
 008800 05 PLT1-V12A-I2 PIC X(7).  
 008900 05 FILLER PIC X.  
 009000 05 PLT2-V12A-I2 PIC X(7).  
 009100 05 FILLER PIC X.  
 009200 05 PLT3-V12A-I2 PIC X(7).  
 009300 05 FILLER PIC X.  
 009400 05 PLT4-V12A-I2 PIC X(7).

```

009500      03  FILLER          PIC X(64).
009600 FD   FIL-P1
009700      CODE-SET IS GBCD
009800      LABEL RECORDS ARE STANDARD
009900      DATA RECORD IS REC-P1.
010000 01  REC-P1  PIC X(132).
010100 SD   FIL-S1
010200      DATA RECORD IS REC-S1.
010300 01  REC-S1.
010400      03  PLANT-CD-S1  PIC X(9).
010500      03  FILLER  PIC XXX.
010600 SD   FIL-S2
010700      DATA RECORD IS REC-S2.
010800 01  REC-S2.
010900      03  SORT-2-KEY.
011000      05  INV-S2      PIC X(4).
011100      05  PLT-TYP-S2  PIC 9.
011200      05  PLANT-S2    PIC X(7).
011300      05  MULT-S2     PIC 9.
011400      03  DESC-S2.
011500      05  GENUS-S2    PIC X(19).
011600      05  SPEC-S2     PIC X(20).
011700      05  VAR-S2     PIC X(40).
011800      05  COM-S2     PIC X(40).
011900 WORKING-STORAGE SECTION.
012000 77  LIN-CNTR  PIC 99  COMP-4  VALUE 53.
012100 77  DUP-LINE  PIC 99  VALUE ZERO.
012200 77  P-HLD    PIC X(7)  VALUE SPACE.
012300 77  MULT-PREV PIC 9  VALUE ZERO.
012400 77  FILE-CHG PIC 9  VALUE ZERO.
012500 77  PARAMETER PIC XXXX  VALUE SPACE.
012600 77  CNT-1    PIC 9999  VALUE ZERO.
012700 77  PG-CNT  PIC 9(6)  VALUE ZERO.
012800 77  PT-HLD  PIC 9  VALUE ZERO.
012900 77  END-FLG PIC 9  COMP-4  VALUE ZERO.
013000 77  A-SW    PIC 9  VALUE ZERO.
013100 77  SUB     PIC 99  VALUE ZERO.
013200 77  PLANT-CD-FLG PIC 9  COMP-4.
013300 77  PLANT-CNTR1 PIC 9(5)  COMP-4  VALUE 1.
013400 77  PLANT-CNTR2 PIC 9(5)  COMP-4  VALUE ZERO.
013500 77  TOT-CNTR  PIC 9(5)  COMP-4  VALUE ZERO.
013600 77  SS1A  PIC 9  COMP-4  VALUE 1.
013700 77  SS1B  PIC 9  COMP-4.
013800 77  SS1C  PIC 9  COMP-4.
013900 77  SS1D  PIC 9  COMP-4.
014000 77  SS2A  PIC 99  COMP-4.
014100 01  TABL-AREA.
014200      03  MON-V  PIC X(36)  VALUE  "JANFEBMARAPRMAYJUNJULAUGSEPOCT
014300-      "NOVDEC".
014400      03  MON-T  REDEFINES  MON-V  PIC XXX  OCCURS 12  TIMES.
014500 01  PAG-HDR1.
014600      03  FILLER  PIC X(14)  VALUE "REPORT DATE:  ".
014700      03  MON-PH1  PIC XXX.
014800      03  FILLER  PIC X  VALUE SPACE.
014900      03  DAY-PH1  PIC XX.
015000      03  FILLER  PIC XXXX  VALUE ", 19".
015100      03  YER-PH1  PIC XX.

```

```

015200      03  FILLER          PIC X(23) VALUE SPACES.
015300      03  FILLER          PIC X(23) VALUE "U.S.D.I. BUREAU OF LAND".
015400      03  FILLER          PIC X(11) VALUE " MANAGEMENT".
015500      03  FILLER          PIC X(22) VALUE SPACES.
015600      03  FILLER          PIC X(15) VALUE "PCN: P030      ".
015700      03  FILLER          PIC X(6) VALUE " PAGE ".
015800      03  PAGE-NO        PIC ZZ,ZZ9.
015900  01  PAG-HDR2.
016000      03  FILLER PIC X(8) VALUE "STATE: ".
016100      03  HDR-ST-CD      PIC XX.
016200      03  FILLER          PIC XXXX VALUE SPACE.
016300      03  HDR-ST-NM      PIC X(10).
016400      03  FILLER          PIC X(30) VALUE SPACES.
016500      03  FILLER          PIC X(21) VALUE "ECOLOGICAL SITE INVEN".
016600      03  FILLER          PIC X(04) VALUE "TORY".
016700      03  FILLER          PIC X(53) VALUE SPACE.
016800  01  PAG-HDR3.
016900      03  FILLER PIC X(8) VALUE " DIST: ".
017000      03  HDR-DIST-CD    PIC XX.
017100      03  FILLER          PIC XXXX VALUE SPACE.
017200      03  HDR-DIST-NM    PIC X(10).
017300      03  FILLER          PIC X(108) VALUE SPACES.
017400  01  PAG-HDR4.
017500*     03  FILLER PIC X(8) VALUE " INV: ".
017600      03  FILLER PIC X(8) VALUE "      ".
017700      03  HDR-INV-CD     PIC XXX.
017800      03  FILLER          PIC XXX VALUE SPACE.
017900      03  HDR-INV-NM     PIC X(10).
018000      03  FILLER          PIC X(32) VALUE SPACES.
018100      03  FILLER PIC X(20) VALUE "INVENTORY PLANT LIST".
018200      03  FILLER          PIC X(56) VALUE SPACE.
018300  01  HEADING-LINE-9.
018400      03  FILLER          PIC X(11) VALUE "----PLANT----".
018500      03  FILLER          PIC X(15) VALUE "      -----".
018600      03  FILLER          PIC X(9) VALUE "-----".
018700      03  FILLER          PIC X(17) VALUE " SCIENTIFIC NAME ".
018800      03  FILLER          PIC X(20) VALUE "-----".
018900      03  FILLER          PIC X(14) VALUE "      -----".
019000      03  FILLER          PIC X(13) VALUE " COMMON NAME ".
019100      03  FILLER          PIC X(11) VALUE "-----".
019200      03  FILLER          PIC X(22) VALUE SPACES.
019300  01  HEADING-LINE-10.
019400      03  FILLER          PIC X(16) VALUE SPACES.
019500      03  FILLER          PIC X(6) VALUE "GENUS ".
019600      03  FILLER          PIC X(13) VALUE SPACES.
019700      03  FILLER          PIC X(7) VALUE "SPECIES".
019800      03  FILLER          PIC X(13) VALUE SPACES.
019900      03  FILLER          PIC X(7) VALUE "VARIETY".
020000      03  FILLER          PIC X(71) VALUE SPACES.
020100  01  HEADING-LINE-UNK.
020200      03  FILLER          PIC X(9) VALUE "UNKNOWN: ".
020300      03  U-CONT          PIC X(13) VALUE SPACE.
020400      03  FILLER          PIC X(110) VALUE SPACES.
020500  01  HEADING-LINE-GRASSES.
020600      03  FILLER          PIC X(9) VALUE "GRASSES: ".
020700      03  G-CONT          PIC X(13) VALUE SPACE.
020800      03  FILLER          PIC X(110) VALUE SPACES.

```

020900 01 HEADING-LINE-FORBS.  
021000 03 FILLER PIC X(7) VALUE "FORBS: ".  
021100 03 F-CONT PIC X(13) VALUE SPACE.  
021200 03 FILLER PIC X(112) VALUE SPACES.  
021300 01 HEADING-LINE-SHRUBS.  
021400 03 FILLER PIC X(8) VALUE "SHRUBS &".  
021500 03 FILLER PIC X(124) VALUE SPACES.  
021600 01 HEADING-LINE-TREES.  
021700 03 FILLER PIC X(7) VALUE "TREES :".  
021800 03 T-CONT PIC X(13) VALUE SPACE.  
021900 03 FILLER PIC X(112) VALUE SPACES.  
022000 01 PRINT-REC.  
022100 03 FILLER PIC X(6) VALUE SPACES.  
022200 03 PLANT-SYM-P PIC X(7).  
022300 03 FILLER PIC X(3) VALUE SPACES.  
022400 03 GRP-P.  
022500 05 GENUS-P PIC X(19).  
022600 05 SPECIES-P PIC X(20).  
022700 05 VAR-P PIC X(19).  
022800 05 FILLER PIC X VALUE SPACE.  
022900 05 COMMON-P PIC X(40).  
023000 03 FILLER PIC X(18) VALUE SPACES.  
023100 01 REC-D1-HLD.  
023200 03 INV-D1 PIC X(4).  
023300 03 PLT-TYP-D1 PIC 9.  
023400 03 PLANT-D1 PIC X(7).  
023500 03 MULT-D1 PIC 9.  
023600 03 DESC-D1.  
023700 05 GENUS-D1 PIC X(19).  
023800 05 SPEC-D1 PIC X(20).  
023900 05 VAR-D1 PIC X(40).  
024000 05 COM-D1 PIC X(40).  
024100 01 V12-PLANT-HOLD.  
024200 03 V12-GRP-HOLD OCCURS 4 TIMES.  
024300 05 TYP-V12 PIC X.  
024400 05 PLANT-V12 PIC X(7).  
024500 01 V13-PLANT-HOLD.  
024600 03 PLANT-SET-V13 OCCURS 4 TIMES.  
024700 05 PLANT-SET PIC X(8).  
024800 05 PLANT-SET-A REDEFINES PLANT-SET.  
024900 07 PLANT-SET-A1 PIC X.  
025000 07 PLANT-SET-A2 PIC X.  
025100 07 PLANT-SET-A3 PIC X.  
025200 07 FILLER PIC X(5).  
025300 05 PLANT-SET-B REDEFINES PLANT-SET.  
025400 07 FILLER PIC X.  
025500 07 PLANT-SET-B1 PIC X(7).  
025600 05 PLANT-SET-C REDEFINES PLANT-SET.  
025700 07 PLANT-SET-C1 PIC X(7).  
025800 07 FILLER PIC X.  
025900 05 FILLER PIC X.  
026000 03 FILLER PIC XXX.  
026100 01 HLD-INV.  
026200 03 INV-HLD.  
026300 05 INV-NM PIC X(20).  
026400 05 ST-DIST-CD.  
026500 07 ST-CD-HLD PIC X(02).

```

026600          07 DI-CD-HLD          PIC          X(02).
026700      03  EXPL-HLD.
026800          05 DIST-NM-HLD          PIC          X(12).
026900          05 RA-NM-HLD            PIC          X(13).
027000          05 PU-NM-HLD            PIC          X(15).
027100      03  FUNC-HLD.
027200          05 ST-NM-HLD            PIC          X(10).
027300          05 FILLER                PIC          X(14).
027400      COPY DBSTATUS IN TPCOBOLIB.
027500 01  HOLD-AREA.
027600      03  ADST-INV-NAM-H1.
027700          05 ADST-NAM-H1 PIC X(10).
027800          05 INV-NAM-H1 PIC X(30).
027900      03  DE-CD-NAM-8823-DEC-H1.
028000          05 FILLER PIC X(23).
028100          05 PLANT-TYP-H1 PIC X.
028200      03  PLANT-CD-H1.
028300          05 PLANT-CD-1C-H1 PIC X OCCURS 9 TIMES.
028400      03  PLANT-CD-HR REDEFINES PLANT-CD-H1.
028500          05 PLANT-CD-C1T8-H1 PIC X(8).
028600          05 FILLER PIC X.
028700      03  PLANT-CD-H2.
028800          05 PLANT-CD-1C-H2 PIC X OCCURS 9 TIMES.
028900 01  EXPL-HLD-2.
029000          05 LIN-KEY PIC 99.
029100          05 EXPL-NAM.
029200          07 GENUS-HLD PIC X(19).
029300          07 FILLER PIC X.
029400          07 SPECIES-HLD PIC X(20).
029500 01  DAT-H.
029600      03  YER-H PIC XX.
029700      03  MON-H PIC 99.
029800      03  DAY-H PIC XX.
029900  PROCEDURE DIVISION.
030000  SORTING SECTION.
030100  100-SORT.
030200      SORT FIL-S1 ON ASCENDING KEY PLANT-CD-S1,
030300          INPUT PROCEDURE IS SORT1-IN,
030400          OUTPUT PROCEDURE IS SORT1-OUT.
030500  110-CLOSE.
030600      CLOSE FIL-D1.
030700      OPEN INPUT FIL-D1.
030800  200-SORT.
030900      SORT FIL-S2 ON ASCENDING KEY SORT-2-KEY,
031000          INPUT PROCEDURE IS SORT2-IN,
031100          OUTPUT PROCEDURE IS SORT2-OUT.
031200  300-CLOSE.
031300      CLOSE FIL-P1. FINISH DIC-DE. STOP RUN.
031400  SORT1-IN SECTION.
031500  400-OPEN.
031600      OPEN INPUT FIL-I1.
031700*      ACCEPT PARAMETER.
031800      MOVE SPACE TO HDR-INV-NM HDR-INV-CD.
031900      READ FIL-I1 AT END
032000          DISPLAY "BAD INPUT FILE" CALL "ABOR".
032100      MOVE ST-DS-I1 TO ST-DIST-CD.
032200      GO TO 510-CHK-REC.

```



```

032300 500-READ.
032400     READ FIL-I1 AT END   CLOSE FIL-I1
032500     OPEN INPUT  FIL-I2  GO TO 610-READ.
032600*    IF CNT-1 > 2000   CLOSE FIL-I1
032700*    OPEN INPUT  FIL-I2  GO TO 610-READ.
032800 510-CHK-REC.
032900     IF REC-TYP-V11A-I1 = "V2"  GO TO 520-V2-REC.
033000     IF REC-TYP-V11A-I1 = "V3"  GO TO 530-V3-REC.
033100     IF REC-I1 = "V11" OR "V14"  GO TO 500-READ.
033200     IF REC-I1 = "V12"
033300         GO TO 570-V12-REC1.
033400     IF REC-I1 = "V13"  GO TO 590-V13-REC.
033500     DISPLAY REC-V11A-I1.
033600     DISPLAY "BAD RECORD TYPE"  CALL "ABOR".
033700 520-V2-REC.
033800     IF PLANT-CD-V21A-I1 = SPACES  GO TO 500-READ.
033900     MOVE PLANT-CD-V21A-I1 TO PLANT-CD-H1.
034000     PERFORM 540-SRCH THRU 560-EXIT.  GO TO 500-READ.
034100 530-V3-REC.
034200     IF PLANT-CD-V31A-I1 = SPACES  GO TO 500-READ.
034300     MOVE PLANT-CD-V31A-I1 TO PLANT-CD-H1.
034400     PERFORM 540-SRCH THRU 560-EXIT.  GO TO 500-READ.
034500 540-SRCH.
034600     MOVE SPACES TO PLANT-CD-H2.  MOVE 1 TO SS1B, SS1C.
034700 550-LP.
034800     IF PLANT-CD-1C-H1 (SS1B) NOT = SPACE AND "-" AND ","
034900         AND ")" AND "("
035000         MOVE PLANT-CD-1C-H1 (SS1B) TO PLANT-CD-1C-H2 (SS1C)
035100         ADD 1 TO SS1C.  IF SS1B < 9  ADD 1 TO SS1B  GO TO 550-LP.
035200     MOVE PLANT-CD-H2 TO REC-S1.
035300     RELEASE REC-S1.
035400     ADD 1 TO CNT-1.
035500 560-EXIT.  EXIT.
035600 570-V12-REC1.
035700     MOVE PLT1-V12A-I1 TO PLANT-V12 (1).
035800     MOVE PLT2-V12A-I1 TO PLANT-V12 (2).
035900     MOVE PLT3-V12A-I1 TO PLANT-V12 (3).
036000     MOVE PLT4-V12A-I1 TO PLANT-V12 (4).
036100     MOVE ZERO TO SUB.
036200 580-LP.
036300     IF SUB = 4  GO TO 500-READ.  ADD 1 TO SUB.
036400     IF PLANT-V12 (SUB) = SPACE  GO TO 580-LP.
036500     MOVE PLANT-V12 (SUB) TO PLANT-CD-H1.
036600     PERFORM 540-SRCH THRU 560-EXIT.  GO TO 580-LP.
036700 590-V13-REC.
036800     MOVE PLANT-CD-V13A-A-I1 TO V13-PLANT-HOLD.
036900     MOVE ZERO TO SUB.
037000 600-LP.
037100     IF SUB = 4 AND (A-SW = 1)
037200         MOVE 0 TO A-SW
037300         GO TO 500-READ.
037400     IF SUB = 4
037500         MOVE PLANT-CD-V13A-B-I1 TO V13-PLANT-HOLD
037600         MOVE 1 TO A-SW
037700         MOVE ZERO TO SUB.
037800     ADD 1 TO SUB.
037900     IF (PLANT-SET (SUB) = SPACE) OR

```

```

038000      (PLANT-SET-A2 (SUB) = SPACE) OR
038100      ((PLANT-SET-A1 (SUB) = "(") AND
038200      (PLANT-SET-A3 (SUB) = ")"))
038300      GO TO 600-LP.
038400      IF (PLANT-SET-A1 (SUB) = "(")
038500          MOVE PLANT-SET-B1 (SUB) TO PLANT-CD-H1 ELSE
038600          MOVE PLANT-SET-C1 (SUB) TO PLANT-CD-H1.
038700      PERFORM 540-SRCH THRU 560-EXIT.
038800      GO TO 600-LP.
038900 610-READ.
039000      READ FIL-I2 AT END GO TO 750-CLOSE.
039100      IF REC-I2 NOT = "V12" DISPLAY REC-V12A-I2
039200          DISPLAY "BAD RECORD TYPE" CALL "ABOR".
039300      MOVE PLT1-V12A-I2 TO PLANT-V12 (1).
039400      MOVE PLT2-V12A-I2 TO PLANT-V12 (2).
039500      MOVE PLT3-V12A-I2 TO PLANT-V12 (3).
039600      MOVE PLT4-V12A-I2 TO PLANT-V12 (4).
039700      MOVE ZERO TO SUB.
039800 620-LP.
039900      IF SUB = 4 GO TO 610-READ. ADD 1 TO SUB.
040000      IF PLANT-V12 (SUB) = SPACE GO TO 620-LP.
040100      MOVE PLANT-V12 (SUB) TO PLANT-CD-H1.
040200      PERFORM 540-SRCH THRU 560-EXIT. GO TO 620-LP.
040300 750-CLOSE.
040400      CLOSE FIL-I2. OPEN OUTPUT FIL-D1.
040500 SORT1-OUT SECTION.
040600 800-READY.
040700      READY DIC-DE.
040800 800-RETURN1.
040900      RETURN FIL-S1 AT END
041000          GO TO 890-EXIT.
041100*      DISPLAY REC-S1.
041200      IF PLANT-CD-S1 = "BARREN"
041300          GO TO 800-RETURN1.
041400      IF PLANT-CD-S1 = PLANT-CD-H1
041500          ADD 1 TO PLANT-CNTR1 GO TO 800-RETURN1.
041600      MOVE PLANT-CD-S1 TO PLANT-CD-H1.
041700      ADD 1 TO PLANT-CNTR2.
041800      MOVE 2646 TO DE-NO-8801-DEC.
041900      MOVE SPACE TO REC-D1-HLD.
042000      MOVE PARAMETER TO INV-D1.
042100      MOVE ZERO TO MULT-D1.
042200      MOVE PLANT-CD-S1 TO PLANT-D1.
042300      MOVE PLANT-CD-S1 TO DE-CD-8822-DEC.
042400      MOVE ZERO TO PLT-TYP-D1.
042500      FIND ANY CODE-DEC.
042600      IF DB-STATUS NOT = ZERO
042700          WRITE REC-D1 FROM REC-D1-HLD
042800          GO TO 800-RETURN1.
042900      GET CODE-DEC.
043000      MOVE DE-CD-NAM-8823-DEC TO DE-CD-NAM-8823-DEC-H1.
043100      IF PLANT-TYP-H1 = "G" MOVE 1 TO PLT-TYP-D1.
043200      IF PLANT-TYP-H1 = "F" MOVE 2 TO PLT-TYP-D1.
043300      IF PLANT-TYP-H1 = "S" OR "T" MOVE 3 TO PLT-TYP-D1.
043400 810-FIND.
043500      FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
043600      MOVE DB-STATUS TO DB-STAT.

```

```

043700     IF END-OF-SET
043800         GO TO 800-RETURN1.
043900     IF NO-RECORD-LOCATED
044000         GO TO 800-RETURN1.
044100     IF NOT OK
044200         GO TO 800-RETURN1.
044300     GET CODE-EXPL-DECE.
044400     MOVE DB-STATUS TO DB-STAT.
044500     IF NOT OK
044600         GO TO 800-RETURN1.
044700     MOVE CODE-EXPL-DECE TO EXPL-HLD-2.
044800     IF LIN-KEY > 26
044900         GO TO 810-FIND.
045000     IF (LIN-KEY = 01) OR
045100         (LIN-KEY > 03 AND < 10) OR
045200         (LIN-KEY > 13 AND < 17) OR
045300         (LIN-KEY > 23 AND < 27)
045400         ADD 1 TO MULT-D1
045500         MOVE EXPL-NAM TO COM-D1.
045600     IF (LIN-KEY = 03 OR 13 OR 23)
045700         ADD 1 TO MULT-D1
045800         MOVE EXPL-NAM TO VAR-D1.
045900     IF (LIN-KEY = 02 OR 12 OR 22)
046000         ADD 1 TO MULT-D1
046100         MOVE GENUS-HLD TO GENUS-D1
046200         MOVE SPECIES-HLD TO SPEC-D1.
046300     WRITE REC-D1 FROM REC-D1-HLD.
046400     MOVE SPACE TO DESC-D1.
046500     GO TO 810-FIND.
046600 890-EXIT.
046700     EXIT.
046800 SORT2-IN SECTION.
046900 900-READ.
047000     READ FIL-D1 INTO REC-S2
047100         AT END GO TO 900-EXIT.
047200     RELEASE REC-S2.
047300     GO TO 900-READ.
047400 900-EXIT.
047500     EXIT.
047600 SORT2-OUT SECTION.
047700 910-HSKP.
047800     CLOSE FIL-D1.
047900     OPEN OUTPUT FIL-P1.
048000     ACCEPT DAT-H FROM DATE.  MOVE MON-T (MON-H) TO MON-PH1.
048100     MOVE DAY-H TO DAY-PH1.  MOVE YER-H TO YER-PH1.
048200*     MOVE PARAMETER TO DE-CD-8822-DEC  HDR-INV-CD.
048300*     MOVE 3940 TO DE-NO-8801-DEC.
048400*     FIND ANY CODE-DEC.
048500*     MOVE DB-STATUS TO DB-STAT.
048600*     IF NOT OK
048700*         MOVE "UNKNOWN" TO HDR-ST-NM HDR-DIST-NM HDR-INV-NM
048800*         GO TO 918-EXIT-STDI.
048900*     GET CODE-DEC.
049000*     MOVE DB-STATUS TO DB-STAT.
049100*     IF NOT OK
049200*         DISPLAY "MISS INV"
049300*         DISPLAY DB-STAT

```

```
049400*          GO TO 918-EXIT-STD1.
049500*          MOVE DE-CD-NAM-8823-DEC TO INV-HLD.
049600*          MOVE INV-NM TO HDR-INV-NM.
049700 912-VALIDATE-ST.
049800          MOVE ST-CD-HLD TO DE-CD-8822-DEC  HDR-ST-CD.
049900          MOVE 0003 TO DE-NO-8801-DEC.
050000          FIND ANY CODE-DEC.
050100          MOVE DB-STATUS TO DB-STAT.
050200          IF NOT OK
050300              MOVE "UNKNOWN" TO HDR-ST-NM
050400              GO TO 914-EXIT-ST.
050500          GET CODE-DEC.
050600          MOVE DB-STATUS TO DB-STAT.
050700          IF NOT OK
050800              DISPLAY DB-STAT
050900              GO TO 914-EXIT-ST.
051000          MOVE DE-CD-NAM-8823-DEC TO FUNC-HLD.
051100          MOVE ST-NM-HLD TO HDR-ST-NM.
051200 914-EXIT-ST.
051300          EXIT.
051400 916-VALIDATE-STD1.
051500          MOVE ST-DIST-CD TO DE-CD-8822-DEC.
051600          MOVE DI-CD-HLD TO HDR-DIST-CD.
051700          MOVE 0003 TO DE-NO-8801-DEC.
051800          FIND ANY CODE-DEC.
051900          MOVE DB-STATUS TO DB-STAT.
052000          IF NOT OK
052100              MOVE "UNKNOWN" TO HDR-DIST-NM
052200              GO TO 918-EXIT-STD1.
052300          GET CODE-DEC.
052400          MOVE DB-STATUS TO DB-STAT.
052500          IF NOT OK
052600              DISPLAY DB-STAT
052700              GO TO 918-EXIT-STD1.
052800          FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
052900          MOVE DB-STATUS TO DB-STAT.
053000          IF NOT OK
053100              MOVE "UNKNOWN" TO HDR-DIST-NM
053200              GO TO 918-EXIT-STD1.
053300          GET CODE-EXPL-DECE.
053400          MOVE DB-STATUS TO DB-STAT.
053500          IF NOT OK
053600              DISPLAY DB-STAT
053700              GO TO 918-EXIT-STD1.
053800          MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HLD
053900          MOVE DIST-NM-HLD TO HDR-DIST-NM.
054000 918-EXIT-STD1.
054100          EXIT.
054200 919-PROCESS.
054300          RETURN FIL-S2 AT END STOP RUN.
054400*          DISPLAY REC-S2.
054500          MOVE PLT-TYP-S2 TO PT-HLD.
054600          MOVE PLANT-S2 TO P-HLD.
054700          MOVE SPACE TO GRP-P.
054800          GO TO 940-PROCESS.
054900 920-OFLO.
055000          MOVE PLANT-S2 TO P-HLD.
```

```

055100      ADD 1 TO PG-CNT.
055200      MOVE 11 TO LIN-CNTR.
055300      MOVE SPACE TO REC-P1.
055400      WRITE REC-P1 BEFORE ADVANCING PAGE.
055500      MOVE PG-CNT TO PAGE-NO.
055600      MOVE PAG-HDR1 TO REC-P1.  WRITE REC-P1.
055700      MOVE PAG-HDR2 TO REC-P1.  WRITE REC-P1.
055800      MOVE PAG-HDR3 TO REC-P1.  WRITE REC-P1.
055900      MOVE PAG-HDR4 TO REC-P1.  WRITE REC-P1.
056000      MOVE SPACES TO REC-P1.  WRITE REC-P1.
056100      MOVE SPACES TO REC-P1.  WRITE REC-P1.
056200      MOVE SPACES TO REC-P1.  WRITE REC-P1.
056300      WRITE REC-P1 FROM HEADING-LINE-9.
056400      WRITE REC-P1 FROM HEADING-LINE-10.
056500      MOVE SPACES TO REC-P1.  WRITE REC-P1.
056600      IF PT-HLD = 0
056700          WRITE REC-P1 FROM HEADING-LINE-UNK
056800          MOVE "(CONTINUED)" TO U-CONT.
056900      IF PT-HLD = 1
057000          WRITE REC-P1 FROM HEADING-LINE-GRASSES
057100          MOVE "(CONTINUED)" TO G-CONT.
057200      IF PT-HLD = 2
057300          WRITE REC-P1 FROM HEADING-LINE-FORBBS
057400          MOVE "(CONTINUED)" TO F-CONT.
057500      IF PT-HLD = 3
057600          WRITE REC-P1 FROM HEADING-LINE-SHRUBS
057700          WRITE REC-P1 FROM HEADING-LINE-TREES
057800          MOVE "(CONTINUED)" TO T-CONT.
057900      920-EXIT.
058000          EXIT.
058100      940-PROCESS.
058200          IF PLT-TYP-S2 NOT = PT-HLD
058300              MOVE PLT-TYP-S2 TO PT-HLD
058400              PERFORM 920-OFLO THRU 920-EXIT.
058500          IF (PLANT-S2 NOT = P-HLD) AND
058600              (DUP-LINE > ZERO)
058700              MOVE ZERO TO DUP-LINE
058800              ADD 1 TO LIN-CNTR
058900              MOVE SPACE TO REC-P1
059000              WRITE REC-P1.
059100          IF GENUS-S2 = SPACE NEXT SENTENCE ELSE
059200              IF GENUS-P = SPACE
059300                  MOVE GENUS-S2 TO GENUS-P ELSE
059400                  PERFORM 950-WRITE
059500                  ADD 1 TO DUP-LINE
059600                  MOVE GENUS-S2 TO GENUS-P.
059700          IF SPEC-S2 = SPACE NEXT SENTENCE ELSE
059800              IF SPECIES-P = SPACE
059900                  MOVE SPEC-S2 TO SPECIES-P ELSE
060000                  PERFORM 950-WRITE
060100                  ADD 1 TO DUP-LINE
060200                  MOVE SPEC-S2 TO SPECIES-P.
060300          IF VAR-S2 = SPACE NEXT SENTENCE ELSE
060400              IF VAR-P = SPACE
060500                  MOVE VAR-S2 TO VAR-P ELSE
060600                  PERFORM 950-WRITE
060700                  ADD 1 TO DUP-LINE

```

```

060800         MOVE VAR-S2 TO VAR-P.
060900         IF COM-S2 = SPACE NEXT SENTENCE ELSE
061000             IF COMMON-P = SPACE
061100                 MOVE COM-S2 TO COMMON-P ELSE
061200                 PERFORM 950-WRITE
061300                 ADD 1 TO DUP-LINE
061400                 MOVE COM-S2 TO COMMON-P.
061500         MOVE PLANT-S2 TO PLANT-SYM-P.
061600         MOVE PLANT-S2 TO P-HLD.
061700 960-RET.
061800         RETURN FIL-S2 AT END
061900             GO TO 999-END.
062000         IF PLANT-S2 NOT = P-HLD
062100             PERFORM 950-WRITE.
062200         GO TO 940-PROCESS.
062300 950-WRITE.
062400         IF LIN-CNTR > 52
062500             PERFORM 920-OFLO THRU 920-EXIT.
062600         ADD 1 TO LIN-CNTR.
062700         WRITE REC-P1 FROM PRINT-REC.
062800         MOVE SPACE TO GRP-P.
062900 999-END.
063000         IF GRP-P NOT = SPACE
063100             PERFORM 950-WRITE.
063200 999-EXIT.
063300         EXIT.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES555M.
000300*         SPECIES SUMMARY PASTURE ADDITION.
000400*
000500 AUTHOR. RON BAKER.
000600 INSTALLATION. USBLM.
000700 DATE-WRITTEN. JULY 4, 1980.
000800 DATE-COMPILED. JULY 4, 1980.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.
001200 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001300 INPUT-OUTPUT SECTION.
001400 FILE-CONTROL.
001500         SELECT SPECIES-SUM-FILE
001600             ASSIGN TO D1
001700             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
001800             ACCESS IS SEQUENTIAL.
001900         SELECT SWA-FILE
002000             ASSIGN TO D2
002100             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002200             ACCESS IS SEQUENTIAL.
002300         SELECT SPEC-PAST-FILE
002400             ASSIGN TO D3
002500             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002600 DATA DIVISION.
002700 FILE SECTION.
002800 FD SPECIES-SUM-FILE
002900         CODE-SET IS GBCD
003000         LABEL RECORDS ARE STANDARD

```

003100 DATA RECORD IS SPEC-REC.  
003200 01 SPEC-REC.  
003300 03 SPEC-CNTL.  
003400 05 ST-D1 PIC XX.  
003500 05 DS-D1 PIC XX.  
003600 05 RA-D1 PIC XX.  
003700 05 PLU-D1 PIC XX.  
003800 05 ALOT-D1 PIC XXXX.  
003900 05 PAST-D1 PIC XX.  
004000 05 SWAT-D1 PIC X(6).  
004100 03 FILLER PIC X(136).  
004200 FD SWA-FILE  
004300 CODE-SET IS GBCD  
004400 LABEL RECORDS ARE STANDARD  
004500 DATA RECORD IS SWA-REC.  
004600 01 SWA-REC.  
004700 05 SDRP-D2.  
004800 07 ST-D2 PIC XX.  
004900 07 DS-D2 PIC XX.  
005000 07 RA-D2 PIC XX.  
005100 07 PLU-D2 PIC XX.  
005200 05 SWAT-D2 PIC X(6).  
005300 05 DATA-D2 PIC X(18).  
005400 05 ALOT-D2 PIC X(4).  
005500 05 PAST-D2 PIC XX.  
005600 05 FILLER PIC X(10).  
005700 FD SPEC-PAST-FILE  
005800 CODE-SET IS GBCD  
005900 LABEL RECORDS ARE STANDARD  
006000 DATA RECORD IS SPEC-PAST-REC.  
006100 01 SPEC-PAST-REC.  
006200 03 ST-D3 PIC XX.  
006300 03 DS-D3 PIC XX.  
006400 03 RA-D3 PIC XX.  
006500 03 PLU-D3 PIC XX.  
006600 03 ALOT-D3 PIC XXXX.  
006700 03 PAST-D3 PIC XX.  
006800 03 SWAT-D3 PIC X(6).  
006900 03 FILLER PIC X(136).  
007000 WORKING-STORAGE SECTION.  
007100 77 CNT1 PIC 9(8) VALUE ZERO.  
007200 77 CNT2 PIC 9(8) VALUE ZERO.  
007300 77 CNT3 PIC 9(8) VALUE ZERO.  
007400 77 CNT4 PIC 9(8) VALUE ZERO.  
007500 77 END-SW PIC 9 VALUE ZERO.  
007600 77 END-SWA PIC 9 VALUE ZERO.  
007700 01 SWA-CNTL.  
007800 03 SDRP-HLD PIC X(8).  
007900 03 ALOT-HLD PIC XXXX.  
008000 03 PAST-HLD PIC XX.  
008100 03 SWAT-HLD PIC X(6).  
008200 PROCEDURE DIVISION.  
008300 010-OPEN.  
008400 OPEN INPUT SPECIES-SUM-FILE SWA-FILE.  
008500 OPEN OUTPUT SPEC-PAST-FILE.  
008600 020-RD-SPECIES-SUM.  
008700 READ SPECIES-SUM-FILE AT END

```

008800         MOVE 1 TO END-SW
008900         GO TO 020-EXIT.
009000         MOVE SPEC-REC TO SPEC-PAST-REC.
009100 020-EXIT.
009200         EXIT.
009300 030-RD-SWA.
009400         READ SWA-FILE AT END
009500         MOVE 1 TO END-SWA
009600         GO TO 030-EXIT.
009700         MOVE SDRP-D2 TO SDRP-HLD.
009800         MOVE ALOT-D2 TO ALOT-HLD.
009900         MOVE SWAT-D2 TO SWAT-HLD.
010000         MOVE ZERO TO PAST-HLD.
010100 030-EXIT.
010200         EXIT.
010300 040-CNTL.
010400         IF END-SW = 1
010500             DISPLAY "END " "SPEC-CNTL= " SPEC-CNTL " SWA-CNTL= "
010600                 SWA-CNTL
010700             GO TO 100-CLOSE.
010800         IF END-SWA = 1
010900             ADD 1 TO CNT1
011000             GO TO 050-WRITE.
011100         IF END-SW = 1
011200             GO TO 100-CLOSE.
011300         IF SPEC-CNTL = SWA-CNTL
011400             MOVE PAST-D2 TO PAST-D3
011500             ADD 1 TO CNT2
011600             GO TO 050-WRITE.
011700         IF SPEC-CNTL > SWA-CNTL
011800             PERFORM 030-RD-SWA THRU 030-EXIT
011900             GO TO 040-CNTL.
012000         ADD 1 TO CNT1.
012100 050-WRITE.
012200         ADD 1 TO CNT3.
012300         WRITE SPEC-PAST-REC.
012400         PERFORM 020-RD-SPECIES-SUM THRU 020-EXIT.
012500         GO TO 040-CNTL.
012600 100-CLOSE.
012700         DISPLAY "CNT1= " CNT1.
012800         DISPLAY "CNT2= " CNT2.
012900         DISPLAY "CNT3= " CNT3.
013000         DISPLAY "CNT4= " CNT4.
013100         CLOSE SWA-FILE SPECIES-SUM-FILE SPEC-PAST-FILE.
013200         STOP RUN.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES560P.
000300*         VEGETATION CHAR. SUMMARY BY STRATUM (P5 LIST)
000400*
000500 AUTHOR. EARL BEAM, RON BAKER.
000600 INSTALLATION. USBLM.
000700 DATE-WRITTEN. SEPTEMBER 10, 1979.
000800 DATE-COMPILED. SEPTEMBER 11, 1979.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.

```



001200 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.  
001300 INPUT-OUTPUT SECTION.  
001400 FILE-CONTROL.  
001500       SELECT FILE-D1  
001600            ASSIGN TO D1  
001700            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF  
001800            ACCESS IS SEQUENTIAL.  
001900       SELECT FILE-D2  
002000            ASSIGN TO D2  
002100            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF  
002200            ACCESS IS SEQUENTIAL.  
002300       SELECT STRATUM-VEGETATION  
002400            ASSIGN TO D3  
002500            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF  
002600            ACCESS IS SEQUENTIAL.  
002700       SELECT PRINT-FILE  
002800            ASSIGN TO P1-PRINTER  
002900            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003000       SELECT PRINT-FILE-2  
003100            ASSIGN TO P2-PRINTER  
003200            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003300       SELECT SORT-FILE  
003400            ASSIGN TO S1.  
003500 DATA DIVISION.  
003600 SUB-SCHEMA SECTION.  
003700 DB   CODVAL2 WITHIN BLMDIC.  
003800 FILE SECTION.  
003900 FD   FILE-D1  
004000       CODE-SET IS GBCD  
004100       LABEL RECORDS ARE STANDARD  
004200       DATA RECORD IS REC-D1.  
004300 01   REC-D1.  
004400    05   ADST-CD                    PIC XX.  
004500    05   DIST-CD                    PIC XX.  
004600    05   RA-CD                     PIC XX.  
004700    05   PLU-CD                     PIC XX.  
004800    05   FILLER                     PIC X(6).  
004900    05   SWA-CD                     PIC X(4).  
005000    05   TRN-CD                     PIC XX.  
005100    05   FILLER                     PIC X.  
005200    05   IN-PLANT-CD                PIC X(7).  
005300    05   IN-PLANT-TYP               PIC X.  
005400    05   IN-FORM-CLASS              PIC X(5) OCCURS 6 TIMES.  
005500    05   IN-AGE-CL                  PIC X(5) OCCURS 7 TIMES.  
005600    05   IN-AVG-HT                  PIC 999V9.  
005700    05   IN-AVG-CROWN               PIC 99V9.  
005800    05   IN-WTD-AVG-AVAIL           PIC 9(3).  
005900    05   IN-TOTAL-PLANTS            PIC 9(5).  
006000    05   IN-UTIL                    PIC 999.  
006100    05   IN-PHENO                    PIC 9.  
006200    05   IN-GRAMS-1                 PIC 9(5).  
006300    05   IN-GRAMS-2                 PIC 9(5).  
006400    05   IN-GRAMS-3                 PIC 9(5).  
006500    05   IN-GRAMS-4                 PIC 9(5).  
006600    05   FILLER                     PIC X(20).  
006700    05   IN-PLOTS-CHRZ              PIC 99.  
006800    05   FILLER                     PIC X.

```

006900 FD  FILE-D2
007000      CODE-SET IS GBCD
007100      LABEL RECORDS ARE STANDARD
007200      DATA RECORD IS REC-D2.
007300 01  REC-D2.
007400      05  SDRPS-D2.
007500          07  SDRP-D2.
007600              09  SDR-D2.
007700                  11 SD-D2.
007800                      13 ST-D2  PIC XX.
007900                      13 DS-D2  PIC XX.
008000                          11 RA-D2  PIC XX.
008100                              09 PLU-D2  PIC XX.
008200                                  07 FILLER  PIC X(6).
008300      05  FILLER  PIC X(34).
008400 01  REC-D2-REDEFINED.
008500      05  FILLER  PIC X(8).
008600      05  IN-SWA  PIC X(4).
008700      05  FILLER  PIC XX.
008800      05  IN-RANGE-SITE  PIC X(11).
008900      05  IN-STRATUM  PIC 9(4).
009000      05  FILLER  PIC X(9).
009100      05  IN-COMPARISON-AREA  PIC X.
009200      05  FILLER  PIC X(9).
009300 FD  STRATUM-VEGETATION
009400      CODE-SET IS GBCD
009500      LABEL RECORDS ARE STANDARD
009600      DATA RECORD IS STRATUM-VEGETATION-REC.
009700 01  STRATUM-VEGETATION-REC.
009800      05  OT-ST-DIST-RA-PLU  PIC X(8).
009900      05  OT-STRATUM  PIC 9(4).
010000      05  OT-PLANT-TYP  PIC 9.
010100      05  OT-PLANT-CD  PIC X(7).
010200      05  OT-DENSITY  PIC 9(6).
010300      05  OT-WTD-AVE-AVAIL  PIC 9(3).
010400      05  OT-RANGE-SITE  PIC X(11).
010500      05  OT-COMPARISON-AREA  PIC X(4).
010600      05  FILLER  PIC X(4).
010700 SD  SORT-FILE.
010800 01  SORT-REC.
010900      05  ST-DIST-RA-PLU  PIC X(8).
011000      05  STRATUM  PIC 9(4).
011100      05  PLANT-TYP  PIC X.
011200      05  PLANT-CD  PIC X(7).
011300      05  FORM-CLASS  PIC 9(6) OCCURS 6 TIMES.
011400      05  AGE-CL  PIC 9(6) OCCURS 7 TIMES.
011500      05  AVG-HT  PIC 9(3)V9.
011600      05  AVG-CROWN  PIC 9(2)V9.
011700      05  WTD-AVG-AVAIL  PIC 9(3).
011800      05  TOTAL-PLANTS  PIC 9(5).
011900      05  COMPARISON-AREA  PIC X(4).
012000      05  RANGE-SITE  PIC X(11).
012100      05  PLOTS-CHRZ  PIC 99.
012200      05  TOTAL-GRAMS  PIC 9(5).
012300      05  FILLER  PIC XXX.
012400      05  SWAT-SR  PIC X(6).
012500 FD  PRINT-FILE

```

012600 LABEL RECORD IS STANDARD  
012700 CODE-SET IS GBCD.  
012800 01 PREC PIC X(132).  
012900 FD PRINT-FILE-2  
013000 LABEL RECORD IS STANDARD  
013100 CODE-SET IS GBCD.  
013200 01 PREC-2 PIC X(132).  
013300 WORKING-STORAGE SECTION.  
013400 77 RETURN-COUNT PIC 9(8) VALUE ZERO.  
013500 77 FIRST-SW PIC 9 VALUE 1.  
013600 77 PRINT-SW PIC 9 VALUE 0.  
013700 77 HOLD-ST-DIST-RA-PLU-2 PIC X(8) VALUE SPACES.  
013800 77 HOLD-STRATUM-2 PIC 9(4) VALUE ZERO.  
013900 77 RNG-SITE-P-HLD PIC X(11) VALUE ZERO.  
014000 77 STRATUM-P-HLD PIC 9999 VALUE ZERO.  
014100 77 UNK-COUNT PIC 9(8) VALUE ZERO.  
014200 77 MASTER-COUNT PIC 9(8) VALUE ZERO.  
014300 77 UPDATE-COUNT PIC 9(8) VALUE ZERO.  
014400 77 SORT-COUNT PIC 9(8) VALUE ZERO.  
014500 77 ZERO-CNT PIC 9(2) VALUE ZERO.  
014600 77 PLOTS-CHRZ-CNT PIC 9(2) VALUE ZERO.  
014700 77 PLOTS-CHRZ-CNT-HLD PIC 9(2) VALUE ZERO.  
014800 77 DISPLAY-COUNT PIC 9(8) VALUE ZERO.  
014900 77 PLANT-TYP-COUNT PIC 9(8) VALUE ZERO.  
015000 77 MASTER-EOF-SW PIC 9 VALUE ZERO.  
015100 77 UNK-SW PIC 9 VALUE ZERO.  
015200 77 UPDATE-EOF-SW PIC 9 VALUE ZERO.  
015300 77 HLD-DENS PIC 9(6) VALUE ZERO.  
015400 77 GRASS-SW PIC 9 VALUE ZERO.  
015500 77 FORBS-SW PIC 9 VALUE ZERO.  
015600 77 HLD-SWAT PIC X(6) VALUE SPACE.  
015700 77 SHRUB-SW PIC 9 VALUE ZERO.  
015800 77 LINE-COUNT PIC 99 VALUE ZERO.  
015900 77 LINE-CNT-2 PIC 99 VALUE ZERO.  
016000 77 PAGE-COUNT PIC 9(5) VALUE ZERO.  
016100 77 STRAT-CNT PIC 999 VALUE ZERO.  
016200 77 WS-HGT-PLANT-TOT PIC 9(10)V9 VALUE ZERO.  
016300 77 WS-CRN-PLANT-TOT PIC 9(10)V9 VALUE ZERO.  
016400 77 WS-AVAIL-GRAM-TOT PIC 9(10) VALUE ZERO.  
016500 77 HLD-SUB PIC 9999 VALUE ZERO.  
016600 77 DISP-SUB PIC 9999 VALUE ZERO.  
016700 77 DISP-SUB-2 PIC 9999 VALUE ZERO.  
016800 77 HLD-SUB2 PIC 9999 VALUE ZERO.  
016900 77 STRAT-SUB PIC 9999 VALUE ZERO.  
017000 77 SUB PIC 9999 VALUE ZERO.  
017100 77 SUB-FC PIC 9999 VALUE ZERO.  
017200 77 SUB-AC PIC 9999 VALUE ZERO.  
017300 01 HLD-IN-STRATUM.  
017400 03 FILLER PIC XX.  
017500 03 IN-STRAT PIC 99.  
017600 01 HOLD-DISP-CODES PIC X(14) VALUE ZEROS.  
017700 01 DISP-CODES.  
017800 05 DISP-CD1 PIC XX.  
017900 05 DISP-CD2 PIC XX.  
018000 05 DISP-CD3 PIC XX.  
018100 05 DISP-CD4 PIC XX.  
018200 05 DISP-CD5 PIC X(4).

018300 05 DISP-CD6 PIC XX.  
018400 01 CURRENT-DATE.  
018500 05 CURRENT-YEAR PIC XX.  
018600 05 CURRENT-MONTH PIC XX.  
018700 05 CURRENT-DAY PIC XX.  
018800 01 DISP-MSG.  
018900 05 DISP-MSG-1 PIC X(33) VALUE  
019000 "NO VB STRATUM RECORD FOR THE FOLL".  
019100 05 DISP-MSG-2 PIC X(34) VALUE  
019200 "OWING ST,DIST,RA,PLU,SWA,TRANSECT".  
019300 01 SDRPS-D1-HLD.  
019400 05 ST-DIST-RA-PLU-KEY.  
019500 10 ADST-KEY PIC XX.  
019600 10 DIST-KEY PIC XX.  
019700 10 RA-KEY PIC XX.  
019800 10 PLU-KEY PIC XX.  
019900 05 SWAT-KEY.  
020000 07 SWA-KEY PIC X(4).  
020100 07 TRN-KEY PIC XX.  
020200 01 STRATUM-TABLE.  
020300 03 STRATUM-TAB.  
020400 05 TRAN-TB PIC X(6) OCCURS 32 TIMES.  
020500 01 HOLD-REC.  
020600 05 HOLD-ST-DIST-RA-PLU PIC X(8) VALUE SPACES.  
020700 05 HOLD-STRATUM PIC 9(4) VALUE ZERO.  
020800 05 HOLD-PLANT-TYP PIC X VALUE SPACES.  
020900 05 HOLD-PLANT-CD PIC X(7) VALUE SPACES.  
021000 05 FILLER PIC X(85) VALUE SPACES.  
021100 05 HOLD-WTD-AVE-AVAIL PIC 9(3) VALUE ZEROES.  
021200 05 FILLER PIC X(5) VALUE SPACES.  
021300 05 HOLD-COMPARISON-AREA PIC X(4) VALUE SPACES.  
021400 05 HOLD-RANGE-SITE PIC X(11) VALUE SPACES.  
021500 05 FILLER PIC X(10) VALUE SPACES.  
021600 05 HOLD-SWAT PIC X(6).  
021700 01 PLANT-TABLE.  
021800 05 DENS-PA-FORM-CLS PIC 9(6) OCCURS 6 TIMES.  
021900 05 DENS-PA-AGE-CLS PIC 9(6) OCCURS 7 TIMES.  
022000 05 HGT-X-PLANT-TOT-SUM PIC 9(10)V9.  
022100 05 CRN-X-PLANT-TOT-SUM PIC 9(10)V9.  
022200 05 AVAIL-X-GRAM-TOT-SUM PIC 9(10).  
022300 05 PLANT-TOT-SUM PIC 9(8).  
022400 05 GRAM-TOT-SUM PIC 9(8).  
022500 01 HOLD-AREA.  
022600 03 SDRP-H.  
022700 05 ADST-CD-H PIC XX.  
022800 05 DIST-CD-H PIC XX.  
022900 05 RA-CD-H PIC XX.  
023000 05 PLU-CD-H PIC XX.  
023100 03 DE-CD-EXPLN-8827-DECE-H.  
023200 05 DIST-NAM-H PIC X(12).  
023300 05 RA-NAM-H PIC X(13).  
023400 05 PLU-NAM-H PIC X(15).  
023500 03 DE-CD-NAM-8823-DEC-H.  
023600 05 ST-NAM-H PIC X(10).  
023700 05 FILLER PIC X(14).  
023800 01 PAG-HDR-1.  
023900 03 FILLER PIC X(13) VALUE "REPORT DATE:".

024000	03	HEADER-DATE.	
024100	05	MO-HDR	PIC 99.
024200	05	FILLER	PIC X VALUE "/".
024300	05	DA-HDR	PIC 99.
024400	05	FILLER	PIC X VALUE "/".
024500	05	YR-HDR	PIC 99.
024600	03	FILLER	PIC X(28) VALUE SPACES.
024700	03	FILLER	PIC X(23) VALUE "U.S.D.I. BUREAU OF LAND".
024800	03	FILLER	PIC X(11) VALUE " MANAGEMENT".
024900	03	FILLER	PIC X(22) VALUE SPACES.
025000	03	FILLER	PIC X(15) VALUE "PCN: P050 ".
025100	03	FILLER	PIC X(6) VALUE " PAGE ".
025200	03	PAGE-NO	PIC ZZ,ZZ9.
025300	01	PAG-HDR-3.	
025400	03	FILLER	PIC X(21) VALUE " STATE ".
025500	03	STATE-NAME	PIC X(10).
025600	03	FILLER	PIC X(23) VALUE SPACES.
025700	03	FILLER	PIC X(21) VALUE "ECOLOGICAL SITE INVEN".
025800	03	FILLER	PIC X(04) VALUE "TORY".
025900	03	FILLER	PIC X(53) VALUE SPACES.
026000	01	PAG-HDR-4.	
026100	03	FILLER	PIC X(20) VALUE " DISTRICT ".
026200	03	DIST-NAME	PIC X(12).
026300	03	FILLER	PIC X(100) VALUE SPACES.
026400	01	PAG-HDR-5.	
026500	03	FILLER	PIC X(20) VALUE " RESOURCE AREA ".
026600	03	RA-NAME	PIC X(13).
026700	03	FILLER	PIC X(11) VALUE SPACES.
026800	03	FILLER	PIC X(24) VALUE "VEGETATION CHARACTERIZAT".
026900	03	FILLER	PIC X(22) VALUE "ION SUMMARY BY STRATUM".
027000	03	FILLER	PIC X(42) VALUE SPACES.
027100	01	PAG-HDR-6.	
027200	03	FILLER	PIC X(20) VALUE " PLANNING UNIT ".
027300	03	PLU-NAME	PIC X(15).
027400	03	FILLER	PIC X(97) VALUE SPACES.
027500	01	PAG-HDR-7.	
027600	03	FILLER	PIC X(4) VALUE SPACES.
027700	03	FILLER	PIC X(16) VALUE "RANGE SITE ".
027800	03	RNG-SITE-P	PIC X(11).
027900	03	RMK-HDR1-7	PIC X(28) VALUE SPACES.
028000	03	FILLER	PIC X(8) VALUE "STRATUM ".
028100	03	STRATUM-P	PIC 9999.
028200	03	RMK-HDR2-7	PIC X(36) VALUE SPACE.
028300*	03	FILLER	PIC X(10) VALUE "(INCLUDES ".
028400*	03	CNT-TRN-P	PIC ZZZ.
028500*	03	FILLER	PIC X(12) VALUE " TRANSECTS)".
028600	03	FILLER	PIC X(25) VALUE SPACES.
028700	01	PAG-HDR-8.	
028800	03	FILLER	PIC X(20) VALUE " COMPARISON AREA ".
028900	03	COMP-AREA-P	PIC X(4).
029000	03	FILLER	PIC X(108) VALUE SPACES.
029100	01	COL-HDR-1.	
029200	03	FILLER	PIC X(6) VALUE " PLANT".
029300	03	FILLER	PIC X(13) VALUE SPACES.
029400	03	FILLER	PIC X(21) VALUE "NUMBER OF PLANTS/ACRE".
029500	03	FILLER	PIC X(24) VALUE SPACES.
029600	03	FILLER	PIC X(21) VALUE "NUMBER OF PLANTS/ACRE".

```

029700      03  FILLER          PIC X(17) VALUE SPACES.
029800      03  FILLER          PIC X(21) VALUE "AVE  AVE  WTD AVE  ".
029900      03  FILLER          PIC X(9) VALUE "  DENSITY".
030000  01  COL-HDR-2.
030100      03  FILLER          PIC X(23) VALUE "SYMBOL          ***** ".
030200      03  FILLER          PIC X(13) VALUE "BY FORM CLASS".
030300      03  FILLER          PIC X(13) VALUE " *****".
030400      03  FILLER          PIC X(7) VALUE SPACES.
030500      03  FILLER          PIC X(13) VALUE " ***** ".
030600      03  FILLER          PIC X(12) VALUE "BY AGE CLASS".
030700      03  FILLER          PIC X(18) VALUE " *****".
030800      03  FILLER          PIC X(3) VALUE SPACES.
030900      03  FILLER          PIC X(22) VALUE "HGT  CRWN  AVAIL %  ".
031000      03  FILLER          PIC X(8) VALUE "  PER  ".
031100  01  COL-HDR-3.
031200      03  FILLER          PIC X(21) VALUE "                1    2".
031300      03  FILLER          PIC X(21) VALUE "                3    4    5".
031400      03  FILLER          PIC X(21) VALUE "                6    S    ".
031500      03  FILLER          PIC X(21) VALUE "P          Y    M    ".
031600      03  FILLED          PIC X(17) VALUE "O    D    R    ".
031700      03  FILLER          PIC X(19) VALUE "(FT) DIA.(FT)    ".
031800      03  FILLER          PIC X(12) VALUE "    ACRE  ".
031900  01  COL-HDR-4.
032000      03  FILLER          PIC X(108) VALUE SPACES.
032100      03  FILLER          PIC X(4) VALUE "(FT)".
032200      03  FILLER          PIC X(20) VALUE SPACES.
032300  01  BARREN-LINE-1.
032400      03  FILLER          PIC X(20) VALUE "*** BARREN STRATUM ***".
032500      03  FILLER          PIC X(112) VALUE SPACE.
032600  01  DATA-LINE-1.
032700      03  PLANT-SYM-P      PIC X(7).
032800      03  FC-P.
032900          05  FORM-CLASS-1  PIC ZZZ,ZZZ.
033000          05  FORM-CLASS-2  PIC ZZZ,ZZZ.
033100          05  FORM-CLASS-3  PIC ZZZ,ZZZ.
033200          05  FORM-CLASS-4  PIC ZZZ,ZZZ.
033300          05  FORM-CLASS-5  PIC ZZZ,ZZZ.
033400          05  FORM-CLASS-6  PIC ZZZ,ZZZ.
033500      03  FC-RD-P REDEFINES FC-P PIC X(7) OCCURS 6 TIMES.
033600      03  FILLER          PIC X VALUE SPACES.
033700      03  AC-P.
033800          05  AGE-CLASS-S  PIC ZZZ,ZZZ.
033900          05  AGE-CLASS-P  PIC ZZZ,ZZZ.
034000          05  AGE-CLASS-Y  PIC ZZZ,ZZZ.
034100          05  AGE-CLASS-M  PIC ZZZ,ZZZ.
034200          05  AGE-CLASS-O  PIC ZZZ,ZZZ.
034300          05  AGE-CLASS-D  PIC ZZZ,ZZZ.
034400          05  AGE-CLASS-R  PIC ZZZ,ZZZ.
034500      03  AC-RD-P REDEFINES AC-P PIC X(7) OCCURS 7 TIMES.
034600      03  FILLER          PIC X VALUE SPACES.
034700      03  AVE-HGT-P      PIC ZZZ.Z.
034800      03  FILLER          PIC XX VALUE SPACES.
034900      03  AVE-CRWN-P     PIC ZZ.Z.
035000      03  AVE-CRWN-P-RD REDEFINES AVE-CRWN-P PIC XXXX.
035100      03  FILLER          PIC X(5) VALUE SPACES.
035200      03  WTD-AVE-P     PIC ZZZ.
035300      03  FILLER          PIC X(5) VALUE SPACES.

```

```

035400      03 DENS-BY-ACRE PIC ZZZ,ZZZ.
035500      03 DBA-RD REDEFINES DENS-BY-ACRE PIC X(7).
035600      03 FILLER          PIC X          VALUE SPACES.
035700 01 HEADING-LINE-GRASSES.
035800      03 FILLER          PIC X(11) VALUE "***GRASSES***".
035900      03 FILLER          PIC X(121) VALUE SPACES.
036000 01 HEADING-LINE-FORBS.
036100      03 FILLER          PIC X(9)  VALUE "***FORBS***".
036200      03 FILLER          PIC X(123) VALUE SPACES.
036300 01 HEADING-LINE-SHRUBS.
036400      03 FILLER          PIC X(8)  VALUE "***SHRUBS".
036500      03 FILLER          PIC X(124) VALUE SPACES.
036600 01 HEADING-LINE-TREES.
036700      03 FILLER          PIC X(11) VALUE " & TREES***".
036800      03 FILLER          PIC X(121) VALUE SPACES.
036900 01 HLD-ACRES-TABLE.
037000      03 HLD-ACRES-FC PIC 9(5)V9.
037100      03 HLD-ACRES-AC PIC 9(5)V9.
037200 01 HLD-TRACE-TABLE.
037300      03 T-TB-FC PIC 9 OCCURS 6 TIMES.
037400      03 T-TB-AC-GRP.
037500      05 T-TB-AC PIC 9 OCCURS 7 TIMES.
037600 01 DISP-REC.
037700      03 DISP-SDRP PIC X(8).
037800      03 FILLER PIC XX.
037900      03 DISP-STRAT PIC 9999.
038000      03 FILLER          PIC X(6)  VALUE SPACE.
038100      03 TRNS-DISPLAY OCCURS 16 TIMES.
038200      05 DISP-TRN PIC X(6).
038300      05 FILLER          PIC X.
038400 01 DISP-REC-RD REDEFINES DISP-REC PIC X(132).
038500 01 DISP-REC-2.
038600      03 FILLER          PIC X(20)  VALUE SPACE.
038700      03 TRNS-DISPLAY-2 OCCURS 16 TIMES.
038800      05 DISP-TRN-2 PIC X(6).
038900      05 FILLER          PIC X.
039000 01 DISP-REC-2-RD REDEFINES DISP-REC-2 PIC X(132).
039100 01 P-SPACE PIC X(132) VALUE SPACE.
039200 PROCEDURE DIVISION.
039300 001-SORT SECTION.
039400 005-SORT-PARA.
039500      MOVE SPACE TO STRATUM-TABLE DISP-REC DISP-REC-2.
039600      OPEN INPUT FILE-D1 FILE-D2.
039700      IF PRINT-SW = 1
039800          MOVE "NO REPORT DUE TO CHARACTERIZATION DATA MISSING"
039900          TO PREC
040000          WRITE PREC
040100          IF PAGE-COUNT = 1
040200              DISPLAY
040300              "NO REPORT DUE TO CHARACTERIZATION DATA MISSING".
040400      ACCEPT CURRENT-DATE FROM DATE.
040500      MOVE CURRENT-YEAR TO YR-HDR.
040600      MOVE CURRENT-MONTH TO MO-HDR.
040700      MOVE CURRENT-DAY TO DA-HDR.
040800      SORT SORT-FILE
040900          ASCENDING ST-DIST-RA-PLU STRATUM PLANT-TYP PLANT-CD
041000      INPUT PROCEDURE IS 100-COLLATE-FILES

```

```

041100         OUTPUT PROCEDURE IS 600-OUTPUT.
041200         CLOSE FILE-D1 FILE-D2 PRINT-FILE-2 PRINT-FILE.
041300         CLOSE STRATUM-VEGETATION.
041400         STOP RUN.
041500 100-COLLATE-FILES SECTION.
041600 120-MAINLINE.
041700         PERFORM 200-READ-MASTER THRU 299-EXIT.
041800 110-MAINLINE.
041900         PERFORM 150-READ-UPDATE THRU 199-EXIT.
042000         IF UPDATE-EOF-SW = 1
042100             GO TO 500-EOJ.
042200 130-MAINLINE.
042300         IF MASTER-EOF-SW = 1 OR UPDATE-EOF-SW = 1
042400             GO TO 500-EOJ.
042500         IF SDRPS-D1-HLD GREATER THAN SDRPS-D2
042600             PERFORM 200-READ-MASTER THRU 299-EXIT
042700             GO TO 130-MAINLINE.
042800         IF SDRPS-D1-HLD LESS THAN SDRPS-D2
042900             PERFORM 400-DISPLAY THRU 499-EXIT
043000         ELSE
043100             MOVE IN-STRATUM TO HLD-IN-STRATUM
043200             PERFORM 300-CREATE-SORT-FILE THRU 399-EXIT.
043300             GO TO 110-MAINLINE.
043400 150-READ-UPDATE.
043500         READ FILE-D1
043600             AT END MOVE 1 TO UPDATE-EOF-SW
043700             GO TO 199-EXIT.
043800         ADD 1 TO UPDATE-COUNT.
043900         MOVE ADST-CD TO ADST-KEY.
044000         MOVE DIST-CD TO DIST-KEY.
044100         MOVE RA-CD TO RA-KEY.
044200         MOVE PLU-CD TO PLU-KEY.
044300         MOVE SWA-CD TO SWA-KEY.
044400         MOVE TRN-CD TO TRN-KEY.
044500 199-EXIT.
044600         EXIT.
044700 200-READ-MASTER.
044800         READ FILE-D2
044900             AT END MOVE 1 TO MASTER-EOF-SW
045000             GO TO 299-EXIT.
045100*         IF ST-D2 = "00" MOVE "UT0848" TO SDR-D2.
045200         ADD 1 TO MASTER-COUNT.
045300 299-EXIT.
045400         EXIT.
045500 300-CREATE-SORT-FILE.
045600         IF IN-STRAT = ZERO MOVE 01 TO IN-STRAT.
045700         IF SWAT-KEY NOT = HLD-SWAT
045800             MOVE IN-PLOTS-CHRZ TO PLOTS-CHRZ
045900             MOVE SPACE TO PLANT-CD
046000             MOVE "0" TO PLANT-TYP
046100             MOVE ST-DIST-RA-PLU-KEY TO ST-DIST-RA-PLU
046200             MOVE IN-STRATUM TO STRATUM
046300             RELEASE SORT-REC
046400             MOVE SWAT-KEY TO HLD-SWAT.
046500*         ADD 1 TO STRAT-TB (IN-STRAT)
046600*             MOVE STRAT-TB (IN-STRAT) TO HLD-SUB
046700*             IF HLD-SUB < 35

```



```

046800*      MOVE SWAT-KEY TO TRAN-TB (IN-STRAT HLD-SUB).
046900      MOVE ST-DIST-RA-PLU-KEY TO ST-DIST-RA-PLU.
047000      MOVE SWAT-KEY TO SWAT-SR.
047100      MOVE IN-STRATUM TO STRATUM.
047200      MOVE IN-RANGE-SITE TO RANGE-SITE.
047300      MOVE IN-FORM-CLASS ( 1 ) TO FORM-CLASS ( 1 ).
047400      MOVE IN-FORM-CLASS ( 2 ) TO FORM-CLASS ( 2 ).
047500      MOVE IN-FORM-CLASS ( 3 ) TO FORM-CLASS ( 3 ).
047600      MOVE IN-FORM-CLASS ( 4 ) TO FORM-CLASS ( 4 ).
047700      MOVE IN-FORM-CLASS ( 5 ) TO FORM-CLASS ( 5 ).
047800      MOVE IN-FORM-CLASS ( 6 ) TO FORM-CLASS ( 6 ).
047900      MOVE IN-AGE-CL ( 1 ) TO AGE-CL ( 1 ).
048000      MOVE IN-AGE-CL ( 2 ) TO AGE-CL ( 2 ).
048100      MOVE IN-AGE-CL ( 3 ) TO AGE-CL ( 3 ).
048200      MOVE IN-AGE-CL ( 4 ) TO AGE-CL ( 4 ).
048300      MOVE IN-AGE-CL ( 5 ) TO AGE-CL ( 5 ).
048400      MOVE IN-AGE-CL ( 6 ) TO AGE-CL ( 6 ).
048500      MOVE IN-AGE-CL ( 7 ) TO AGE-CL ( 7 ).
048600      MULTIPLY IN-PLOTS-CHRZ BY FORM-CLASS (1).
048700      MULTIPLY IN-PLOTS-CHRZ BY FORM-CLASS (2).
048800      MULTIPLY IN-PLOTS-CHRZ BY FORM-CLASS (3).
048900      MULTIPLY IN-PLOTS-CHRZ BY FORM-CLASS (4).
049000      MULTIPLY IN-PLOTS-CHRZ BY FORM-CLASS (5).
049100      MULTIPLY IN-PLOTS-CHRZ BY FORM-CLASS (6).
049200      MULTIPLY IN-PLOTS-CHRZ BY AGE-CL (1).
049300      MULTIPLY IN-PLOTS-CHRZ BY AGE-CL (2).
049400      MULTIPLY IN-PLOTS-CHRZ BY AGE-CL (3).
049500      MULTIPLY IN-PLOTS-CHRZ BY AGE-CL (4).
049600      MULTIPLY IN-PLOTS-CHRZ BY AGE-CL (5).
049700      MULTIPLY IN-PLOTS-CHRZ BY AGE-CL (6).
049800      MULTIPLY IN-PLOTS-CHRZ BY AGE-CL (7).
049900      MOVE IN-AVG-HT TO AVG-HT.
050000      MOVE IN-AVG-CROWN TO AVG-CROWN.
050100      MOVE IN-WTD-AVG-AVAIL TO WTD-AVG-AVAIL.
050200      MOVE IN-TOTAL-PLANTS TO TOTAL-PLANTS.
050300      ADD IN-GRAMS-1, IN-GRAMS-2, IN-GRAMS-3, IN-GRAMS-4
050400          GIVING TOTAL-GRAMS.
050500      MOVE IN-PLOTS-CHRZ TO PLOTS-CHRZ.
050600      IF (IN-COMPARISON-AREA = "C")
050700          MOVE IN-SWA TO COMPARISON-AREA
050800      ELSE
050900          MOVE SPACES TO COMPARISON-AREA.
051000      MOVE IN-PLANT-CD TO PLANT-CD.
051100      IF PLANT-CD = "BARREN "
051200          MOVE "0" TO PLANT-TYP
051300          GO TO 350-SORT-WRITE.
051400      IF IN-PLANT-TYP = "G"
051500          MOVE "1" TO PLANT-TYP
051600          GO TO 350-SORT-WRITE.
051700      IF IN-PLANT-TYP = "F"
051800          MOVE "2" TO PLANT-TYP
051900          GO TO 350-SORT-WRITE.
052000      IF IN-PLANT-TYP = "S" OR "T"
052100          MOVE "3" TO PLANT-TYP
052200          GO TO 350-SORT-WRITE.
052300      IF IN-PLANT-TYP = "1" OR "2" OR "3" OR "0"
052400          MOVE IN-PLANT-TYP TO PLANT-TYP

```

```

052500         GO TO 350-SORT-WRITE.
052600         DISPLAY "PLANT-TYP= " IN-PLANT-TYP " IS IN ERROR"
052700         " NO RECORD CREATED. KEY IS = " SDRPS-D1-HLD
052800         "SPECIES= " IN-PLANT-CD.
052900         ADD 1 TO PLANT-TYP-COUNT.
053000         GO TO 399-EXIT.
053100 350-SORT-WRITE.
053200         RELEASE SORT-REC.
053300         ADD 1 TO SORT-COUNT.
053400 399-EXIT.
053500         EXIT.
053600 400-DISPLAY.
053700         MOVE ADST-CD TO DISP-CD1.
053800         MOVE DIST-CD TO DISP-CD2.
053900         MOVE RA-CD   TO DISP-CD3.
054000         MOVE PLU-CD  TO DISP-CD4.
054100         MOVE SWA-CD  TO DISP-CD5.
054200         MOVE TRN-CD  TO DISP-CD6.
054300         IF DISP-CODES = HOLD-DISP-CODES
054400         GO TO 450-DISPLAY.
054500         DISPLAY DISP-MSG, ADST-CD, SPACE , DIST-CD, SPACE,
054600         RA-CD, SPACE, PLU-CD, SPACE, SWA-CD, TRN-CD.
054700         ADD 1 TO DISPLAY-COUNT.
054800 450-DISPLAY.
054900         MOVE DISP-CODES TO HOLD-DISP-CODES.
055000 499-EXIT.
055100         EXIT.
055200 500-EOJ.
055300         DISPLAY "NO OF MASTER RECORDS READ      = " MASTER-COUNT.
055400         DISPLAY "NO OF SORT RECORDS WRITTEN     = " SORT-COUNT.
055500         DISPLAY "NO OF UPDATE RECORDS READ      = " UPDATE-COUNT.
055600         DISPLAY "NO OF UPDATE RECORDS DISPLAYED = " DISPLAY-COUNT.
055700         DISPLAY "NO OF UNKNOWN RECORDS      = " UNK-COUNT.
055800         DISPLAY "NO OF PLANT TYPES NOT VALID   = " PLANT-TYP-COUNT.
055900 599-EXIT.
056000         EXIT.
056100 600-OUTPUT SECTION.
056200 600-MAINLINE.
056300         READY.
056400         IF DB-STATUS = ZERO
056500         NEXT SENTENCE
056600         ELSE
056700         DISPLAY "DB NOT READY CANNOT PROCEDE. RUN STOPPED."
056800         STOP RUN.
056900         OPEN OUTPUT PRINT-FILE-2 PRINT-FILE STRATUM-VEGETATION.
057000         MOVE "LIST OF TRANSECTS W/I STRATUM" TO PREC-2.
057100         WRITE PREC-2.
057200         WRITE PREC-2 FROM P-SPACE.
057300         MOVE "S T R A T U M           T R A N S E C T S"
057400         TO PREC-2.
057500         WRITE PREC-2.
057600         WRITE PREC-2 FROM P-SPACE.
057700         GO TO 670-RETURN-RECORD.
057800 610-PRINT-STRAT-SWAT.
057900         MOVE HOLD-STRATUM TO DISP-STRAT.
058000         MOVE HOLD-ST-DIST-RA-PLU TO DISP-SDRP.
058100         IF FIRST-SW = 1 GO TO 630-EXIT.

```

```

058200     IF LINE-CNT-2 > 50
058300         MOVE ZERO TO LINE-CNT-2
058400         WRITE PREC-2 FROM P-SPACE AFTER ADVANCING PAGE
058500         MOVE "S T R A T U M           T R A N S E C T S"
058600         TO PREC-2
058700         WRITE PREC-2
058800         WRITE PREC-2 FROM P-SPACE.
058900     WRITE PREC-2 FROM DISP-REC-RD AFTER 1 LINE.
059000     ADD 1 TO LINE-CNT-2.
059100     IF DISP-TRN-2 (1) NOT = SPACE
059200         ADD 1 TO LINE-CNT-2
059300         WRITE PREC-2 FROM DISP-REC-2-RD AFTER 1 LINE.
059400     MOVE SPACE TO DISP-REC DISP-REC-2 STRATUM-TABLE.
059500     MOVE ZERO TO DISP-SUB DISP-SUB-2.
059600 620-LOAD-SWAT.
059700     MOVE ZERO TO HLD-SUB STRAT-SUB.
059800 625-LOOP.
059900     ADD 1 TO HLD-SUB.
060000     IF HLD-SUB > 32
060100         GO TO 630-EXIT.
060200     IF SWAT-SR = TRAN-TB (HLD-SUB)
060300         GO TO 630-EXIT.
060400     IF TRAN-TB (HLD-SUB) NOT = SPACE
060500         GO TO 625-LOOP.
060600     MOVE SWAT-SR TO TRAN-TB (HLD-SUB).
060700     IF DISP-SUB > 16
060800         ADD 1 TO DISP-SUB-2
060900         MOVE SWAT-SR TO DISP-TRN-2 (DISP-SUB-2)
061000         ELSE ADD 1 TO DISP-SUB
061100         MOVE SWAT-SR TO DISP-TRN (DISP-SUB).
061200 630-EXIT.
061300     EXIT.
061400 640-CHRZ-TOTALS.
061500     IF ST-DIST-RA-PLU EQUALS HOLD-ST-DIST-RA-PLU-2
061600     AND STRATUM EQUALS HOLD-STRATUM-2
061700         ADD PLOTS-CHRZ TO PLOTS-CHRZ-CNT
061800         ELSE MOVE ZERO TO PLOTS-CHRZ-CNT
061900         MOVE ST-DIST-RA-PLU TO HOLD-ST-DIST-RA-PLU-2
062000         MOVE STRATUM TO HOLD-STRATUM-2
062100         ADD PLOTS-CHRZ TO PLOTS-CHRZ-CNT.
062200 650-EXIT.
062300     EXIT.
062400 660-CONTINUE.
062500     DISPLAY P-SPACE.
062600 670-RETURN-RECORD.
062700     RETURN SORT-FILE
062800         AT END
062900         PERFORM 750-WRAPUP THRU 799-EXIT
063000         GO TO 900-EOJ.
063100*     DISPLAY "SR= " SORT-REC.
063200     IF (PLANT-TYP = "0") AND
063300         (PLANT-CD = SPACE)
063400         PERFORM 640-CHRZ-TOTALS THRU 650-EXIT
063500         GO TO 670-RETURN-RECORD.
063600     IF ST-DIST-RA-PLU EQUALS HOLD-ST-DIST-RA-PLU
063700     AND STRATUM EQUALS HOLD-STRATUM
063800         PERFORM 620-LOAD-SWAT THRU 630-EXIT

```

```

063900     ELSE
064000         PERFORM 610-PRINT-STRAT-SWAT THRU 630-EXIT
064100         PERFORM 750-WRAPUP THRU 799-EXIT
064200         PERFORM 700-VALIDATE-STATE THRU 749-EXIT
064300         PERFORM 800-NEW-PAGE-HEADING THRU 849-EXIT
064400         PERFORM 850-PLANT-HEADING-ROUTINE THRU 899-EXIT
064500         MOVE PLOTS-CHRZ-CNT TO PLOTS-CHRZ-CNT-HLD
064600         GO TO 680-CONTINUE.
064700     IF PLANT-TYP NOT = HOLD-PLANT-TYP
064800         PERFORM 750-WRAPUP THRU 799-EXIT
064900         PERFORM 850-PLANT-HEADING-ROUTINE THRU 899-EXIT
065000         GO TO 680-CONTINUE.
065100     IF PLANT-CD NOT = HOLD-PLANT-CD
065200         PERFORM 750-WRAPUP THRU 799-EXIT.
065300 680-CONTINUE.
065400     IF PLANT-CD NOT = "BARREN "
065500         PERFORM 690-ACCUMULATIONS THRU 699-EXIT.
065600     MOVE SORT-REC TO HOLD-REC.
065700     GO TO 670-RETURN-RECORD.
065800 690-ACCUMULATIONS.
065900     ADD FORM-CLASS ( 1 ) TO DENS-PA-FORM-CLS ( 1 ).
066000     ADD FORM-CLASS ( 2 ) TO DENS-PA-FORM-CLS ( 2 ).
066100     ADD FORM-CLASS ( 3 ) TO DENS-PA-FORM-CLS ( 3 ).
066200     ADD FORM-CLASS ( 4 ) TO DENS-PA-FORM-CLS ( 4 ).
066300     ADD FORM-CLASS ( 5 ) TO DENS-PA-FORM-CLS ( 5 ).
066400     ADD FORM-CLASS ( 6 ) TO DENS-PA-FORM-CLS ( 6 ).
066500     ADD AGE-CL ( 1 ) TO DENS-PA-AGE-CLS ( 1 ).
066600     ADD AGE-CL ( 2 ) TO DENS-PA-AGE-CLS ( 2 ).
066700     ADD AGE-CL ( 3 ) TO DENS-PA-AGE-CLS ( 3 ).
066800     ADD AGE-CL ( 4 ) TO DENS-PA-AGE-CLS ( 4 ).
066900     ADD AGE-CL ( 5 ) TO DENS-PA-AGE-CLS ( 5 ).
067000     ADD AGE-CL ( 6 ) TO DENS-PA-AGE-CLS ( 6 ).
067100     ADD AGE-CL ( 7 ) TO DENS-PA-AGE-CLS ( 7 ).
067200     MULTIPLY AVG-HT BY TOTAL-PLANTS GIVING WS-HGT-PLANT-TOT.
067300     ADD WS-HGT-PLANT-TOT TO HGT-X-PLANT-TOT-SUM.
067400     IF PLANT-TYP = 3
067500         MULTIPLY AVG-CROWN BY TOTAL-PLANTS
067600         GIVING WS-CRN-PLANT-TOT
067700         ADD WS-CRN-PLANT-TOT TO CRN-X-PLANT-TOT-SUM.
067800*     IF PLANT-TYP = 1 OR 2
067900         MULTIPLY WTD-AVG-AVAIL BY TOTAL-GRAMS
068000         GIVING WS-AVAIL-GRAM-TOT
068100         ADD WS-AVAIL-GRAM-TOT TO AVAIL-X-GRAM-TOT-SUM.
068200     ADD TOTAL-PLANTS TO PLANT-TOT-SUM.
068300     ADD TOTAL-GRAMS TO GRAM-TOT-SUM.
068400 699-EXIT.
068500     EXIT.
068600 700-VALIDATE-STATE.
068700     MOVE 0003 TO DE-NO-8801-DEC.
068800     MOVE ST-DIST-RA-PLU TO DE-CD-8822-DEC.
068900     FIND ANY CODE-DEC.
069000     IF DB-STATUS NOT = ZERO
069100         DISPLAY "DBSTATUS " DB-STATUS
069200         DISPLAY "INVALID SDRP " ST-DIST-RA-PLU CALL "ABOR".
069300     GET CODE-DEC.
069400     MOVE DE-CD-NAM-8823-DEC TO DE-CD-NAM-8823-DEC-H.
069500     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.

```

```

069600     IF DB-STATUS NOT = ZERO
069700         DISPLAY "BAD DIST, RA, PLU CODES"  CALL "ABOR".
069800     GET CODE-EXPL-DECE.
069900     MOVE DE-CD-EXPLN-8827-DECE TO DE-CD-EXPLN-8827-DECE-H.
070000     MOVE ST-NAM-H TO STATE-NAME.
070100     MOVE RA-NAM-H TO RA-NAME.
070200     MOVE DIST-NAM-H TO DIST-NAME.
070300     MOVE PLU-NAM-H TO PLU-NAME.
070400 749-EXIT.
070500     EXIT.
070600 750-WRAPUP.
070700     IF FIRST-SW = 1
070800         MOVE ZERO TO FIRST-SW
070900         MOVE PLOTS-CHRZ-CNT TO PLOTS-CHRZ-CNT-HLD.
071000     MOVE SPACE TO STRATUM-VEGETATION-REC.
071100     MOVE ZERO TO ZERO-CNT HLD-TRACE-TABLE HLD-ACRES-TABLE.
071200     IF HOLD-PLANT-CD EQUALS SPACES
071300         GO TO 799-EXIT.
071400     IF HOLD-PLANT-CD = "BARREN "
071500         GO TO 792-PRINT.
071600*     MOVE STRAT-TB (HOLD-STRATUM) TO STRAT-CNT.
071700*     IF STRAT-CNT = ZERO MOVE 1 TO STRAT-CNT.
071800     MOVE ZERO TO SUB-AC SUB-FC.
071900 760-LP.
072000     ADD 1 TO SUB-FC.
072100     IF SUB-FC > 6
072200         GO TO 770-LP.
072300     IF DENS-PA-FORM-CLS (SUB-FC) = ZERO
072400         ADD 1 TO ZERO-CNT
072500         GO TO 760-LP.
072600     DIVIDE PLOTS-CHRZ-CNT-HLD INTO DENS-PA-FORM-CLS (SUB-FC)
072700         GIVING HLD-ACRES-FC  ROUNDED.
072800     ADD .5 HLD-ACRES-FC GIVING DENS-PA-FORM-CLS (SUB-FC).
072900     IF HLD-ACRES-FC < .5
073000         MOVE 1 TO T-TB-FC (SUB-FC).
073100     GO TO 760-LP.
073200 770-LP.
073300     ADD 1 TO SUB-AC.
073400     IF SUB-AC > 7
073500         GO TO 780-LOAD-PRINT.
073600     IF DENS-PA-AGE-CLS (SUB-AC) = ZERO
073700         ADD 1 TO ZERO-CNT
073800         GO TO 770-LP.
073900     DIVIDE PLOTS-CHRZ-CNT-HLD INTO DENS-PA-AGE-CLS (SUB-AC)
074000         GIVING HLD-ACRES-AC  ROUNDED.
074100     ADD .5 HLD-ACRES-AC GIVING DENS-PA-AGE-CLS (SUB-AC).
074200     ADD DENS-PA-AGE-CLS (SUB-AC) TO HLD-DENS.
074300     IF HLD-ACRES-AC < .5
074400         MOVE 1 TO T-TB-AC (SUB-AC).
074500     GO TO 770-LP.
074600 780-LOAD-PRINT.
074700     MOVE HOLD-PLANT-CD           TO PLANT-SYM-P.
074800     MOVE DENS-PA-FORM-CLS ( 1 ) TO FORM-CLASS-1.
074900     MOVE DENS-PA-FORM-CLS ( 2 ) TO FORM-CLASS-2.
075000     MOVE DENS-PA-FORM-CLS ( 3 ) TO FORM-CLASS-3.
075100     MOVE DENS-PA-FORM-CLS ( 4 ) TO FORM-CLASS-4.
075200     MOVE DENS-PA-FORM-CLS ( 5 ) TO FORM-CLASS-5.

```

```

075300     MOVE DENS-PA-FORM-CLS ( 6 ) TO FORM-CLASS-6.
075400     MOVE DENS-PA-AGE-CLS ( 1 ) TO AGE-CLASS-S.
075500     MOVE DENS-PA-AGE-CLS ( 2 ) TO AGE-CLASS-P.
075600     MOVE DENS-PA-AGE-CLS ( 3 ) TO AGE-CLASS-Y.
075700     MOVE DENS-PA-AGE-CLS ( 4 ) TO AGE-CLASS-M.
075800     MOVE DENS-PA-AGE-CLS ( 5 ) TO AGE-CLASS-O.
075900     MOVE DENS-PA-AGE-CLS ( 6 ) TO AGE-CLASS-D.
076000     MOVE DENS-PA-AGE-CLS ( 7 ) TO AGE-CLASS-R.
076100     MOVE ZERO TO SUB.
076200     790-LP.
076300     ADD 1 TO SUB.
076400     IF T-TB-AC (SUB) = 1 MOVE "      T" TO AC-RD-P (SUB).
076500     IF T-TB-FC (SUB) = 1 MOVE "      T" TO FC-RD-P (SUB).
076600     IF SUB = 6 NEXT SENTENCE ELSE
076700         GO TO 790-LP.
076800     ADD 1 TO SUB.
076900     IF T-TB-AC (SUB) = 1 MOVE "      T" TO AC-RD-P (SUB).
077000     IF HGT-X-PLANT-TOT-SUM > ZERO
077100         DIVIDE HGT-X-PLANT-TOT-SUM BY PLANT-TOT-SUM
077200         GIVING AVE-HGT-P ELSE
077300         ADD 1 TO ZERO-CNT
077400         MOVE ZERO TO AVE-HGT-P.
077500     IF CRN-X-PLANT-TOT-SUM > ZERO
077600         DIVIDE CRN-X-PLANT-TOT-SUM BY PLANT-TOT-SUM
077700         GIVING AVE-CRWN-P ELSE
077800         ADD 1 TO ZERO-CNT
077900         MOVE ZERO TO AVE-CRWN-P.
078000     IF HOLD-PLANT-TYP = 1 OR 2
078100         MOVE SPACE TO AVE-CRWN-P-RD.
078200     IF AVAIL-X-GRAM-TOT-SUM > ZERO
078300         DIVIDE AVAIL-X-GRAM-TOT-SUM BY GRAM-TOT-SUM
078400         GIVING HOLD-WTD-AVE-AVAIL ELSE
078500         ADD 1 TO ZERO-CNT
078600         MOVE ZERO TO HOLD-WTD-AVE-AVAIL.
078700     MOVE HOLD-WTD-AVE-AVAIL TO WTD-AVE-P.
078800*     ADD .5 TO HLD-DENS.
078900     MOVE HLD-DENS TO DENS-BY-ACRE OT-DENSITY.
079000*     IF (HLD-DENS = .5) OR (HLD-DENS > .9 )
079100     IF (HLD-DENS = ZERO) AND
079200         (T-TB-AC-GRP NOT = ZERO)
079300         MOVE "      T" TO DBA-RD.
079400     MOVE ZERO TO HLD-DENS.
079500     IF (ZERO-CNT = 16)
079600         AND (HOLD-PLANT-CD NOT = "BARREN ")
079700         GO TO 799-EXIT.
079800     792-PRINT.
079900     IF (PRINT-SW = 0) AND (LINE-COUNT GREATER 54)
080000         PERFORM 800-NEW-PAGE-HEADING THRU 849-EXIT.
080100     IF PRINT-SW = 0 AND (HOLD-PLANT-CD NOT = "BARREN ")
080200         WRITE PREC FROM DATA-LINE-1 AFTER ADVANCING 1.
080300*     IF PAGE-COUNT = 1
080400*         DISPLAY DATA-LINE-1.
080500     IF PRINT-SW = 0 AND (HOLD-PLANT-CD = "BARREN ")
080600         WRITE PREC FROM BARREN-LINE-1 AFTER ADVANCING 1
080700         IF PAGE-COUNT = 1
080800         DISPLAY BARREN-LINE-1.
080900     ADD 1 TO LINE-COUNT.

```

```

081000 793-PASS.
081100     MOVE HOLD-ST-DIST-RA-PLU TO OT-ST-DIST-RA-PLU.
081200     MOVE HOLD-STRATUM          TO OT-STRATUM.
081300     MOVE HOLD-PLANT-TYP        TO OT-PLANT-TYP.
081400     MOVE HOLD-PLANT-CD         TO OT-PLANT-CD.
081500     MOVE HOLD-WTD-AVE-AVAIL    TO OT-WTD-AVE-AVAIL.
081600     MOVE HOLD-RANGE-SITE       TO OT-RANGE-SITE.
081700     MOVE HOLD-COMPARISON-AREA TO OT-COMPARISON-AREA.
081800*    DISPLAY STRATUM-VEGETATION-REC.
081900     WRITE STRATUM-VEGETATION-REC.
082000     MOVE ZEROES TO PLANT-TABLE.
082100 799-EXIT.
082200     EXIT.
082300 800-NEW-PAGE-HEADING.
082400     IF PRINT-SW = 1 GO TO 849-EXIT.
082500     ADD 1 TO PAGE-COUNT.
082600     MOVE PAGE-COUNT TO PAGE-NO.
082700     MOVE 12 TO LINE-COUNT.
082800     MOVE STRATUM TO STRATUM-P.
082900*    MOVE STRAT-TB (STRATUM) TO CNT-TRN-P.
083000     MOVE RANGE-SITE TO RNG-SITE-P.
083100     IF (STRATUM-P-HLD = STRATUM-P) AND
083200         (RNG-SITE-P-HLD = RNG-SITE-P)
083300         MOVE " (CONTINUED)" TO RMK-HDR2-7
083400         ELSE MOVE STRATUM-P TO STRATUM-P-HLD
083500             MOVE RNG-SITE-P TO RNG-SITE-P-HLD
083600             MOVE SPACE TO RMK-HDR2-7.
083700*    IF PAGE-COUNT = 1
083800*        DISPLAY PAG-HDR-1
083900*        DISPLAY PAG-HDR-3
084000*        DISPLAY PAG-HDR-4
084100*        DISPLAY PAG-HDR-5
084200*        DISPLAY PAG-HDR-6
084300*        DISPLAY PAG-HDR-7.
084400     WRITE PREC FROM PAG-HDR-1 AFTER ADVANCING PAGE.
084500     WRITE PREC FROM PAG-HDR-3 AFTER ADVANCING 1 LINE.
084600     WRITE PREC FROM PAG-HDR-4 AFTER ADVANCING 1 LINE.
084700     WRITE PREC FROM PAG-HDR-5 AFTER ADVANCING 1 LINE.
084800     WRITE PREC FROM PAG-HDR-6 AFTER ADVANCING 1 LINE.
084900     WRITE PREC FROM PAG-HDR-7 AFTER ADVANCING 1 LINE.
085000     IF COMPARISON-AREA = SPACES
085100         NEXT SENTENCE
085200     ELSE
085300         ADD 1 TO LINE-COUNT
085400         MOVE COMPARISON-AREA TO COMP-AREA-P
085500         WRITE PREC FROM PAG-HDR-8 AFTER ADVANCING 1 LINE.
085600*        IF PAGE-COUNT = 1
085700*            DISPLAY PAG-HDR-8.
085800*    IF PAGE-COUNT = 1
085900*        DISPLAY SPACES
086000*        DISPLAY COL-HDR-1
086100*        DISPLAY COL-HDR-2
086200*        DISPLAY COL-HDR-3
086300*        DISPLAY P-SPACE.
086400     WRITE PREC FROM COL-HDR-1 AFTER ADVANCING 2 LINES.
086500     WRITE PREC FROM COL-HDR-2 AFTER ADVANCING 1 LINE.
086600     WRITE PREC FROM COL-HDR-3 AFTER ADVANCING 1 LINE.

```

```

086700     MOVE SPACE TO RMK-HDR1-7 RMK-HDR2-7.
086800     WRITE PREC FROM P-SPACE AFTER ADVANCING 1 LINE.
086900 849-EXIT.
087000     EXIT.
087100 850-PLANT-HEADING-ROUTINE.
087200     IF PRINT-SW = 1 GO TO 899-EXIT.
087300     IF LINE-COUNT GREATER 48
087400         PERFORM 800-NEW-PAGE-HEADING THRU 849-EXIT.
087500*    IF PLANT-TYP = 1 AND PAGE-COUNT = 1
087600*        DISPLAY SPACES
087700*        DISPLAY HEADING-LINE-GRASSES.
087800     IF PLANT-TYP = 1
087900         WRITE PREC FROM HEADING-LINE-GRASSES
088000             AFTER ADVANCING 2 LINES
088100             ADD 2 TO LINE-COUNT
088200             GO TO 899-EXIT.
088300*    IF PLANT-TYP = 2 AND PAGE-COUNT = 1
088400*        DISPLAY SPACES
088500*        DISPLAY HEADING-LINE-FORBS.
088600     IF PLANT-TYP = 2
088700         WRITE PREC FROM HEADING-LINE-FORBS
088800             AFTER ADVANCING 2 LINES
088900             ADD 2 TO LINE-COUNT
089000             GO TO 899-EXIT.
089100*    IF PLANT-TYP = 3 AND PAGE-COUNT = 1
089200*        DISPLAY SPACES
089300*        DISPLAY HEADING-LINE-SHRUBS
089400*        DISPLAY HEADING-LINE-TREES.
089500     IF PLANT-TYP = 3
089600         WRITE PREC FROM HEADING-LINE-SHRUBS
089700             AFTER ADVANCING 2 LINES
089800         WRITE PREC FROM HEADING-LINE-TREES
089900             AFTER ADVANCING 1 LINE
090000         ADD 3 TO LINE-COUNT.
090100 899-EXIT.
090200     EXIT.
090300 900-EOJ.
090400     DISPLAY "PAGES PRINTED= " PAGE-COUNT.
090500     FINISH.
090600     IF DB-STATUS NOT = ZERO
090700         DISPLAY "DB CANNOT FINISH STATUS=" DB-STATUS.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES570P.
000300*     TOTAL AIR DRY PRODUCTION, AVG PHENO, UTIL. (P6 LIST).
000400*
000500 AUTHOR. DEBERARD, RON BAKER.
000600 INSTALLATION. USBLM.
000700 DATE-WRITTEN. SEPTEMBER 11, 1979.
000800 DATE-COMPILED. SEPTEMBER 11, 1979.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.
001200 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001300 INPUT-OUTPUT SECTION.
001400 FILE-CONTROL.
001500     SELECT FILE-D2

```



001600            ASSIGN TO D2  
001700            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF  
001800            ACCESS IS SEQUENTIAL.  
001900    SELECT FILE-D1  
002000            ASSIGN TO D1  
002100            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF  
002200            ACCESS IS SEQUENTIAL.  
002300    SELECT FILE-D3  
002400            ASSIGN TO D3  
002500            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF  
002600            ACCESS IS SEQUENTIAL.  
002700    SELECT FILE-I1  
002800            ASSIGN TO I1-I2  
002900            ORGANIZATION IS INDEXED  
003000            ACCESS MODE IS DYNAMIC  
003100            RECORD KEY IS SDRPTS-I1  
003200            FILE STATUS IS FILE-STATUS.  
003300    SELECT FILE-P1  
003400            ASSIGN TO P1-PRINTER  
003500            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003600    DATA DIVISION.  
003700    SUB-SCHEMA SECTION.  
003800    DB    CODVAL2 WITHIN BLMDIC.  
003900    FILE SECTION.  
004000    FD    FILE-D2  
004100            CODE-SET IS GBCD  
004200            LABEL RECORDS ARE STANDARD  
004300            DATA RECORD IS REC-D2.  
004400    01    REC-D2            PIC X(156).  
004500    FD    FILE-D3  
004600            CODE-SET IS GBCD  
004700            LABEL RECORDS ARE STANDARD  
004800            DATA RECORD IS REC-D3.  
004900    01    REC-D3            PIC X(48).  
005000    FD    FILE-I1  
005100            LABEL RECORDS STANDARD  
005200            BLOCK CONTAINS 8960 CHARACTERS  
005300            RECORD CONTAINS 72 CHARACTERS  
005400            DATA RECORD IS REC-I1.  
005500    01    REC-I1.  
005600            04    SDRPTS-I1 PIC X(16).  
005700            04    FILLER PIC X(56).  
005800    FD    FILE-D1  
005900            CODE-SET IS GBCD  
006000            LABEL RECORDS ARE STANDARD  
006100            DATA RECORD IS REC-D1.  
006200    01    REC-D1.  
006300            03    SDRP-D1            PIC X(8).  
006400            03    SWAT-D1.  
006500            05    SWA-D1            PIC XXXX.  
006600            05    TRAN-D1           PIC 99.  
006700            03    PLANT-TYPE-D1 PIC 9.  
006800            03    PLANT-CD-D1       PIC X(7).  
006900            03    HT-CODE-D1       PIC X.  
007000            03    TOT-PROD-D1     PIC 9(5)V9.  
007100            03    FILLER            PIC X.  
007200    FD    FILE-P1

007300 LABEL RECORD IS STANDARD  
007400 CODE-SET IS GBCD.  
007500 01 REC-P1 PIC X(132).  
007600 WORKING-STORAGE SECTION.  
007700 77 MASTER-COUNT PIC 9(8) VALUE ZERO.  
007800 77 INCOMP PIC 999.  
007900 77 TYPCNT PIC 99 VALUE ZERO.  
008000 77 HTCNT PIC 9.  
008100 77 FOUND-GRAM PIC 9.  
008200 77 WTDUTIL PIC 999V99.  
008300 77 GREENWT PIC 99999V999.  
008400 77 DRYWT PIC 99999V999.  
008500 77 PHENWT PIC 99999V999.  
008600 77 CLIMWT PIC 99999V999.  
008700 77 LINE-COUNT PIC 99 VALUE ZERO.  
008800 77 PAGE-COUNT PIC 9(5) VALUE ZERO.  
008900 77 HTCOUNT PIC 9.  
009000 77 M1-SW PIC 9 VALUE ZERO.  
009100 77 U1-SW PIC 9 VALUE ZERO.  
009200 77 PASS-SW PIC 9 VALUE ZERO.  
009300 01 FILE-STATUS.  
009400 03 MAJOR-STATUS PIC X.  
009500 03 MINOR-STATUS PIC X.  
009600 01 CURRENT-DATE.  
009700 05 CURRENT-YEAR PIC XX.  
009800 05 CURRENT-MONTH PIC XX.  
009900 05 CURRENT-DAY PIC XX.  
010000 01 UPDATE-KEY.  
010100 05 ST-DIST-RA-PLU-KEY.  
010200 10 ADST-KEY PIC XX.  
010300 10 DIST-KEY PIC XX.  
010400 10 RA-KEY PIC XX.  
010500 10 PLU-KEY PIC XX.  
010600 05 SWA-KEY PIC X(4).  
010700 05 TRN-KEY PIC XX.  
010800 01 HOLD-REC.  
010900 03 HOLD-KEY.  
011000 05 HOLD-SDRP PIC X(8).  
011100 05 HOLD-ALLOT PIC X(4).  
011200 05 HOLD-PAST PIC XX.  
011300 05 HOLD-SWAT.  
011400 07 HOLD-SWA PIC X(4).  
011500 07 HOLD-TRN PIC XX.  
011600 03 HOLD-PLANT.  
011700 05 HOLD-TYPE PIC X.  
011800 05 HOLD-SYMB PIC X(7).  
011900 03 FILLER PIC X(2).  
012000 01 DET-COUNT.  
012100 04 G-CNT PIC 99.  
012200 04 F-CNT PIC 99.  
012300 04 T-CNT PIC 99.  
012400 01 HOLD-AREA.  
012500 03 DE-CD-EXPLN-8827-DECE-H.  
012600 05 DIST-NAM-H PIC X(12).  
012700 05 RA-NAM-H PIC X(13).  
012800 05 PLU-NAM-H PIC X(15).  
012900 03 DE-CD-NAM-8823-DEC-H.

013000           05 ST-NAM-H PIC X(10).  
013100           05 FILLER PIC X(14).  
013200 01 SPECIES-SUM-WORK.  
013300    02 WORK-KEY.  
013400    03 SDPU.  
013500           04 IST PIC XX.  
013600           04 IDI PIC XX.  
013700           04 IRA PIC XX.  
013800           04 IPU PIC XX.  
013900    03 IALOT PIC XXXX.  
014000    03 IPAST PIC XX.  
014100    03 ISWA PIC X(4).  
014200    03 ITRN PIC XX.  
014300 02 WORK-DET.  
014400    03 FILLER PIC X.  
014500    03 SPECIES-WK PIC X(7).  
014600    03 ITYP PIC 9.  
014700    03 FILLER PIC X(80).  
014800    03 IUTIL PIC 999.  
014900    03 IPHEN PIC 9.  
015000    03 IGRAM OCCURS 4 TIMES PIC 99999.  
015100    03 IPROD OCCURS 4 TIMES PIC 99999.  
015200    03 FILLER PIC XXX.  
015300 01 SDRPTS-CNTL.  
015400    03 S-SDRP PIC X(8).  
015500    03 S-TYP PIC X.  
015600    03 S-SYMB PIC X(7).  
015700 01 SWA-WORK.  
015800    02 SWA-KEY.  
015900        04 SDRP.  
016000           05 SSTATE PIC XX.  
016100           05 SDIST PIC XX.  
016200           05 SRAREA PIC XX.  
016300           05 SPU PIC XX.  
016400    04 SSWAT.  
016500           06 SSWA PIC X(4).  
016600           06 STRN PIC XX.  
016700 02 SWA-DETL.  
016800    04 R-SITE PIC X(11).  
016900    04 STRAT PIC 9999.  
017000    04 SWAPCT PIC 999.  
017100    04 ALOT-PAST.  
017200           05 ALLOT PIC XXXX.  
017300           05 PAST PIC XX.  
017400    04 C-AREA PIC X.  
017500    04 CL-ADJ PIC 99V999.  
017600    04 FILLER PIC XXXX.  
017700 01 SWA-COMP.  
017800    03 SWA1 PIC X(8).  
017900    03 SWA2 PIC X(4).  
018000    03 SWA3 PIC X(2).  
018100    03 SWA4 PIC X(4).  
018200    03 SWA5 PIC XX.  
018300 01 ADJ-WORK.  
018400    02 A-COMP.  
018500    04 ASDRP PIC X(8).  
018600    04 ATYP PIC X.

```

018700      04  ASYMB      PIC X(7).
018800      02  A-REST.
018900      04  ADWPCT    OCCURS 8 TIMES  PIC 9V99.
019000      04  PH-ADJ    OCCURS 8 TIMES  PIC 99V99.
019100      01  PHENOS.
019200      02  PH1.
019300          04  FILLER  PIC X(12) VALUE "1-BEGIN GROW".
019400          04  FILLER  PIC X(12) VALUE "2-VEG. STAGE".
019500          04  FILLER  PIC X(12) VALUE "3-BOOT STAGE".
019600          04  FILLER  PIC X(12) VALUE "4-PEAK FLOWR".
019700          04  FILLER  PIC X(12) VALUE "5-SEED RIPE ".
019800          04  FILLER  PIC X(12) VALUE "6-MATURE   ".
019900          04  FILLER  PIC X(12) VALUE "7-DORMANT   ".
020000          04  FILLER  PIC X(12) VALUE "8-REGROWTH  ".
020100      02  PH2 REDEFINES PH1 OCCURS 8 TIMES.
020200          04  FENO PIC X(12).
020300      01  PAG-HDR-1.
020400          03  FILLER          PIC X(13) VALUE "REPORT DATE: ".
020500          03  HEADER-DATE.
020600          05  MO-HDR      PIC 99.
020700          05  FILLER      PIC X      VALUE "/".
020800          05  DA-HDR      PIC 99.
020900          05  FILLER      PIC X      VALUE "/".
021000          05  YR-HDR      PIC 99.
021100          03  FILLER      PIC X(28) VALUE SPACES.
021200          03  FILLER      PIC X(23) VALUE "U.S.D.I. BUREAU OF LAND".
021300          03  FILLER      PIC X(11) VALUE " MANAGEMENT".
021400          03  FILLER      PIC X(22) VALUE SPACES.
021500          03  FILLER      PIC X(15) VALUE "PCN: P060      ".
021600          03  FILLER      PIC X(6) VALUE " PAGE ".
021700          03  PAGE-NO      PIC ZZ,ZZ9.
021800      01  PAG-HDR-3.
021900          03  FILLER          PIC X(20) VALUE "      STATE          ".
022000          03  STATE-NAME      PIC X(10).
022100          03  FILLER          PIC X(24) VALUE SPACES.
022200          03  FILLER          PIC X(21) VALUE "ECOLOGICAL SITE INVEN".
022300          03  FILLER          PIC X(04) VALUE "TORY".
022400          03  FILLER          PIC X(53) VALUE SPACES.
022500      01  PAG-HDR-4.
022600          03  FILLER          PIC X(20) VALUE "      DISTRICT          ".
022700          03  DIST-NAME        PIC X(12).
022800          03  FILLER          PIC X(100) VALUE SPACES.
022900      01  PAG-HDR-5.
023000          03  FILLER          PIC X(20) VALUE "      RESOURCE AREA      ".
023100          03  RA-NAME          PIC X(13).
023200          03  FILLER          PIC X(5) VALUE SPACES.
023300          03  FILLER          PIC X(14) VALUE "TOTAL AIR DRY ".
023400          03  FILLER          PIC X(20) VALUE "PRODUCTION, AVERAGE ".
023500          03  FILLER          PIC X(15) VALUE "PHENOLOGY, AND ".
023600          03  FILLER          PIC X(11) VALUE "UTILIZATION".
023700          03  FILLER          PIC X(34) VALUE SPACES.
023800      01  PAG-HDR-6.
023900          03  FILLER          PIC X(20) VALUE "      PLANNING UNIT      ".
024000          03  PLU-NAME        PIC X(15).
024100          03  FILLER          PIC X(81) VALUE SPACES.
024200          03  FILLER          PIC X(8) VALUE "CLIMATIC".
024300          03  FILLER          PIC X(8) VALUE SPACES.

```

024400 01 P1.  
024500 04 FILLER PIC X(20) VALUE " ALLOTMENT ".  
024600 04 PAL PIC X(4).  
024700 04 FILLER PIC X(36) VALUE SPACES.  
024800 04 FILLER PIC X(10) VALUE "SWA ".  
024900 04 PSWA PIC XXXX.  
025000 04 FILLER PIC X(42) VALUE SPACES.  
025100 04 FILLER PIC X(8) VALUE "ADJ-FCTR".  
025200 04 FILLER PIC X(8) VALUE SPACES.  
025300 01 P2.  
025400 04 FILLER PIC XXXX VALUE SPACES.  
025500 04 PASTLIT PIC X(7) VALUE SPACES.  
025600 04 FILLER PIC X(9) VALUE SPACES.  
025700 04 PRAST PIC XX VALUE SPACES.  
025800 04 FILLER PIC X(38) VALUE SPACES.  
025900 04 FILLER PIC X(10) VALUE "TRANSECT ".  
026000 04 PTRAN PIC 99.  
026100 04 FILLER PIC X(45) VALUE SPACES.  
026200 04 PCLFAC PIC ZZ.999.  
026300 04 FILLER PIC X(9) VALUE SPACES.  
026400 01 P3.  
026500 04 FILLER PIC X(20) VALUE " COMPARISON AREA ".  
026600 04 PCOMP PIC XXXX.  
026700 04 FILLER PIC X(108) VALUE SPACES.  
026800 01 P4.  
026900 04 FILLER PIC X(28) VALUE " PLANT HT TOTAL LBS".  
027000 04 FILLER PIC X(28) VALUE "/ PLANT-UTILIZATION TOTAL-".  
027100 04 FILLER PIC X(28) VALUE "PROD PERCENT TOTAL-PROD".  
027200 04 FILLER PIC X(28) VALUE " WEIGHTED PHENOLOGY TOT".  
027300 04 FILLER PIC X(20) VALUE "AL-PROD TOTAL-PROD".  
027400 01 P5.  
027500 04 FILLER PIC X(28) VALUE " SYMBOL CODE GRAMS ACR".  
027600 04 FILLER PIC X(28) VALUE "E WTD-AVE AVE LBS/A".  
027700 04 FILLER PIC X(28) VALUE "CRE AIR DRY LBS/ACRE".  
027800 04 FILLER PIC X(28) VALUE " AVE ADJ LB".  
027900 04 FILLER PIC X(20) VALUE "S/ACRE LBS/ACRE".  
028000 01 P6.  
028100 04 FILLER PIC X(28) VALUE " (GREEN) (GRE".  
028200 04 FILLER PIC X(28) VALUE "EN) PCT. ADJ-FCTR (GREE".  
028300 04 FILLER PIC X(28) VALUE "N) WEIGHT (DRY)".  
028400 04 FILLER PIC X(28) VALUE " PHENOLOGY FACTOR PHE".  
028500 04 FILLER PIC X(20) VALUE "NO-ADJ. CLIM-ADJ".  
028600 01 BARREN-LINE.  
028700 03 FILLER PIC X(20) VALUE "\*\*\* BARREN STRATUM \*\*\*".  
028800 03 FILLER PIC X(112) VALUE SPACE.  
028900 01 PRINT-WORK-1-P1.  
029000 03 GROUP-1-P1.  
029100 05 SPECIES-P1 PIC X(9).  
029200 05 REMARK-1-P1.  
029300 07 FILLER PIC XX.  
029400 07 HT-CODE-P1 PIC 9.  
029500 07 FILLER PIC XX.  
029600 05 TOT-GRAMS-GREEN PIC ZZZ,ZZ9.  
029700 05 LBS-GREEN-P1 PIC ZZZZ,ZZ9.  
029800 05 UTIL-WTD-AVG-PCT-P1 PIC ZZZ,ZZ9.  
029900 05 UTIL-AVG-ADJ-FCTR-P1 PIC ZZZ,ZZZ.99.  
030000 05 TOT-PROD-GREEN-P1 PIC ZZZZZZZ,ZZ9.

030100		05 FILLER	PIC X(7).
030200		05 PCT-ADW-P1	PIC Z.99.
030300	03	REMARK-2-P1.	
030400		05 GROUP-2-P1.	
030500		07 FILLER	PIC X(4).
030600		07 TOT-PROD-DRY-P1	PIC ZZZ,ZZZ.99.
030700		07 FILLER	PIC X(2).
030800	05	REMARK-3-P1.	
030900		07 PHENO-WGTD-AVG-P1	PIC X(14).
031000		07 FILLER	PIC X.
031100		07 PHENO-ADJ-FCTR-P1	PIC ZZ.99.
031200		07 FILLER	PIC X(4).
031300		07 TOT-PROD-PHENO-P1	PIC ZZZ,ZZZ.99.
031400		07 FILLER	PIC X(3).
031500		07 TOT-PROD-CLIM-P1	PIC ZZZ,ZZZ.99.
031600		07 FILLER	PIC X.
031700	01	PRINT-WORK-2-P1.	
031800		03 FILLER	PIC X(56) VALUE SPACES.
031900		03 TYPE-NAME-P1	PIC X(20).
032000		03 FILLER	PIC X(56) VALUE SPACES.
032100	01	PRINT-WORK-3-P1.	
032200		03 SPECIES-2-P1	PIC X(9).
032300		03 FILLER	PIC XX VALUE SPACES.
032400		03 FILLER	PIC X.
032500		03 FILLER	PIC XX VALUE SPACES.
032600		03 FILLER PIC X(28) VALUE "WEIGHT ESTIMATE DATA MISSING".	
032700		03 FILLER	PIC X(90) VALUE SPACES.
032800	01	SPEC-TOT.	
032900		04 S-GRAM	PIC 9(6)V99.
033000		04 S-PROD	PIC 9(6)V99.
033100		04 S-PROD-UTIL	PIC 9(6)V99.
033200		04 S-PROD-DRY	PIC 9(6)V99.
033300		04 S-PROD-PHEN	PIC 9(6)V99.
033400		04 S-PROD-CLIM	PIC 9(6)V99.
033500	01	TYP-TOT.	
033600		04 T-GRAM	PIC 9(6)V99.
033700		04 T-PROD	PIC 9(6)V99.
033800		04 T-PROD-UTIL	PIC 9(6)V99.
033900		04 T-PROD-DRY	PIC 9(6)V99.
034000		04 T-PROD-PHEN	PIC 9(6)V99.
034100		04 T-PROD-CLIM	PIC 9(6)V99.
034200	01	SWAT-TOT.	
034300		04 W-GRAM	PIC 9(6)V99.
034400		04 W-PROD	PIC 9(6)V99.
034500		04 W-PROD-UTIL	PIC 9(6)V99.
034600		04 W-PROD-DRY	PIC 9(6)V99.
034700		04 W-PROD-PHEN	PIC 9(6)V99.
034800		04 W-PROD-CLIM	PIC 9(6)V99.
034900		PROCEDURE DIVISION.	
035000		OPEN-PARA.	
035100		OPEN INPUT FILE-D2 FILE-D3 FILE-I1.	
035200		OPEN OUTPUT FILE-P1.	
035300		OPEN OUTPUT FILE-D1.	
035400		ACCEPT CURRENT-DATE FROM DATE.	
035500		READY DIC-DE.	
035600		MOVE CURRENT-YEAR TO YR-HDR.	
035700		MOVE CURRENT-MONTH TO MO-HDR.	

```

035800     MOVE CURRENT-DAY TO DA-HDR.
035900     MOVE ZEROS TO DET-COUNT SPEC-TOT TYP-TOT SWAT-TOT.
036000     MOVE ZERO TO INCOMP.
036100*    DISPLAY "BLM-ADMN ALT/PA SWATR N T SYMBOL UTIL P  ** MSG **".
036200     PERFORM 100-READ-SWA THRU 210-EX.
036300     GO TO 300-CK-EQ.
036400 010-START-PARA.
036500*    DISPLAY "GOT TO 010".
036600     MOVE 0003 TO DE-NO-8801-DEC.
036700     MOVE SDRP TO DE-CD-8822-DEC.
036800     FIND ANY CODE-DEC.
036900     IF DB-STATUS NOT = ZERO
037000         DISPLAY "BAD STATE CODE"  CALL "ABOR".
037100     GET CODE-DEC.
037200     MOVE DE-CD-NAM-8823-DEC TO DE-CD-NAM-8823-DEC-H.
037300     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
037400     IF DB-STATUS NOT = ZERO
037500         DISPLAY "BAD DIST, RA, PLU CODES"  CALL "ABOR".
037600     GET CODE-EXPL-DECE.
037700     MOVE DE-CD-EXPLN-8827-DECE TO DE-CD-EXPLN-8827-DECE-H.
037800     MOVE ST-NAM-H TO STATE-NAME.
037900     MOVE RA-NAM-H TO RA-NAME.
038000     MOVE DIST-NAM-H TO DIST-NAME.
038100     MOVE PLU-NAM-H TO PLU-NAME.
038200 020-EXIT.
038300     EXIT.
038400 050-PAGE.
038500     ADD 1 TO PAGE-COUNT.
038600*    IF PAGE-COUNT > 300 STOP RUN.
038700     MOVE PAGE-COUNT TO PAGE-NO.
038800*    DISPLAY "PAGE  " PAGE-COUNT  "      LINE-COUNT  " LINE-COUNT.
038900     MOVE ZERO TO LINE-COUNT.
039000     MOVE SPACES TO REC-P1.
039100     IF PAGE-COUNT = 1
039200         DISPLAY SPACES.
039300     WRITE REC-P1 AFTER ADVANCING PAGE.
039400     IF PAGE-COUNT = 1
039500         DISPLAY PAG-HDR-1.
039600     WRITE REC-P1 FROM  PAG-HDR-1.
039700     IF PAGE-COUNT = 1
039800         DISPLAY PAG-HDR-3.
039900     WRITE REC-P1 FROM  PAG-HDR-3.
040000     IF PAGE-COUNT = 1
040100         DISPLAY PAG-HDR-4.
040200     WRITE REC-P1 FROM  PAG-HDR-4.
040300     IF PAGE-COUNT = 1
040400         DISPLAY PAG-HDR-5.
040500     WRITE REC-P1 FROM  PAG-HDR-5.
040600     IF PAGE-COUNT = 1
040700         DISPLAY PAG-HDR-6.
040800     WRITE REC-P1 FROM  PAG-HDR-6.
040900 060-PAL.
041000     MOVE ALLOT TO PAL.
041100     MOVE SSWA TO PSWA.
041200     IF PAGE-COUNT = 1
041300         DISPLAY P1.
041400     WRITE REC-P1 FROM P1.

```

```

041500     MOVE SPACES TO PASTLIT PRAST.
041600     IF PAST > 0 MOVE "PASTURE" TO PASTLIT
041700         MOVE PAST TO PRAST.
041800     MOVE STRN TO PTRAN.
041900     IF CL-ADJ = 0 MOVE 1 TO PCLFAC ELSE MOVE CL-ADJ TO PCLFAC.
042000     IF PAGE-COUNT = 1
042100         DISPLAY P2.
042200     WRITE REC-P1 FROM P2.
042300 070-COMP.
042400     IF C-AREA = 0 OR SPACES NEXT SENTENCE ELSE
042500     MOVE STRAT TO PCOMP WRITE REC-P1 FROM P3
042600     IF PAGE-COUNT = 1
042700         DISPLAY P3.
042800     MOVE SPACES TO REC-P1.
042900     IF PAGE-COUNT = 1
043000         DISPLAY SPACES.
043100     WRITE REC-P1 AFTER ADVANCING 1 LINE.
043200     IF PAGE-COUNT = 1
043300         DISPLAY P4.
043400     WRITE REC-P1 FROM P4.
043500     IF PAGE-COUNT = 1
043600         DISPLAY P5.
043700     WRITE REC-P1 FROM P5.
043800     IF PAGE-COUNT = 1
043900         DISPLAY P6.
044000     WRITE REC-P1 FROM P6.
044100     MOVE SPACES TO REC-P1.
044200     IF PAGE-COUNT = 1
044300         DISPLAY SPACES.
044400     WRITE REC-P1.
044500     MOVE ZEROS TO DET-COUNT.
044600 090-EXIT.     EXIT.
044700 100-READ-SWA.
044800     IF M1-SW = 1 GO TO 110-EX.
044900     READ FILE-D3 INTO SWA-WORK AT END MOVE 1 TO M1-SW
045000     MOVE HIGH-VALUES TO SWA-COMP
045100     GO TO 110-EX.
045200*     IF SPU NOT = "30"
045300*         GO TO 100-READ-SWA.
045400*     IF ALLOT NOT = "1401" GO TO 100-READ-SWA.
045500     MOVE SSDRP TO SWA1.
045600     MOVE ALLOT TO SWA2.
045700     MOVE PAST TO SWA3.
045800     MOVE SSWA TO SWA4.
045900     MOVE STRN TO SWA5.
046000     EXAMINE SWA-COMP REPLACING ALL SPACES BY ZERO.
046100*     DISPLAY "SWA-COMP      " SWA-COMP.
046200 110-EX.     EXIT.
046300 200-RD-SPECIES-SUM.
046400     IF U1-SW = 1 GO TO 210-EX.
046500     READ FILE-D2 INTO SPECIES-SUM-WORK AT END MOVE 1 TO U1-SW
046600         MOVE HIGH-VALUES TO WORK-KEY.
046700*     IF IPU NOT = "30"
046800*         GO TO 200-RD-SPECIES-SUM.
046900*     IF IALOT NOT = "1401" GO TO 200-RD-SPECIES-SUM.
047000     EXAMINE WORK-KEY REPLACING ALL SPACES BY ZERO.
047100*     DISPLAY "WORK-KEY      " WORK-KEY.

```



```

047200 210-EX.      EXIT.
047300 300-CK-EQ.
047400*   DISPLAY "300-SWA-COMP IS " SWA-COMP.
047500*   DISPLAY "300-WORK-KEY IS " WORK-KEY.
047600     IF M1-SW = 1 AND U1-SW = 1
047700         DISPLAY "PAGES PRINTED= " PAGE-COUNT
047800         CLOSE FILE-D2 FILE-D3 FILE-I1 FILE-P1 FILE-D1
047900         FINISH DIC-DE
048000         STOP RUN.
048100     IF SWA-COMP < WORK-KEY
048200*         DISPLAY "SWA-COMP " SWA-COMP " < WORK-KEY " WORK-KEY
048300         PERFORM 100-READ-SWA GO TO 300-CK-EQ.
048400     IF SWA-COMP > WORK-KEY PERFORM 600-SPP-TOT
048500         THRU 810-EXIT
048600         GO TO 200-RD-SPECIES-SUM.
048700     PERFORM 010-START-PARA THRU 020-EXIT.
048800     PERFORM 050-PAGE THRU 090-EXIT.
048900 400-PRINT.
049000*   DISPLAY "GOT TO 400".
049100     MOVE SPACES TO PRINT-WORK-1-P1.
049200     IF LINE-COUNT > 33 PERFORM 050-PAGE THRU 090-EXIT.
049300     IF ITYP = 1 ADD 1 TO G-CNT GO TO 410-G.
049400     IF ITYP = 2 ADD 1 TO F-CNT GO TO 420-F.
049500     IF ITYP = 3 ADD 1 TO T-CNT GO TO 430-T.
049600     IF SPECIES-WK = "BARREN "
049700         INITIALIZE REC-D1
049800         MOVE SDRP TO SDRP-D1
049900         MOVE PSWA TO SWA-D1
050000         MOVE PTRAN TO TRAN-D1
050100         MOVE ITYP TO PLANT-TYPE-D1
050200         MOVE SPECIES-WK TO PLANT-CD-D1
050300         WRITE REC-D1
050400         WRITE REC-P1 FROM BARREN-LINE
050500         GO TO 500-NEXT-SPP.
050600     DISPLAY SDPU SPACE IALOT IPAST SPACE ISWA ITRN SPACE
050700     ITYP SPACE SPECIES-WK SPACE IUTIL SPACE IPHEN SPACE
050800     "INVALID PLANT TYPE".
050900     GO TO 500-NEXT-SPP.
051000*   STOP RUN.
051100 410-G.
051200     IF G-CNT = 1 MOVE "    ** GRASSES **    " TO TYPE-NAME-P1
051300     ADD 1 TO LINE-COUNT
051400     WRITE REC-P1 FROM PRINT-WORK-2-P1
051500     IF PAGE-COUNT = 1
051600         DISPLAY PRINT-WORK-2-P1.
051700     GO TO 440-DETAIL.
051800 420-F.
051900     IF F-CNT = 1 MOVE "    ** FORBS **    " TO TYPE-NAME-P1
052000     ADD 1 TO LINE-COUNT
052100     WRITE REC-P1 FROM PRINT-WORK-2-P1
052200     IF PAGE-COUNT = 1
052300         DISPLAY PRINT-WORK-2-P1.
052400     GO TO 440-DETAIL.
052500 430-T.
052600     IF T-CNT = 1 MOVE "*** SHRUBS & TREES ***" TO TYPE-NAME-P1
052700     ADD 1 TO LINE-COUNT
052800     WRITE REC-P1 FROM PRINT-WORK-2-P1

```

```

052900             IF PAGE-COUNT = 1
053000             DISPLAY PRINT-WORK-2-P1.
053100 440-DETAIL.
053200             ADD 1 TO TYPCNT.
053300             MOVE SPECIES-WK TO SPECIES-P1.
053400             MOVE 0 TO HTCNT FOUND-GRAM.
053500 445-HT.
053600             ADD 1 TO HTCNT.
053700             IF HTCNT > 4 GO TO 500-NEXT-SPP.
053800             IF IGRAM (HTCNT) = 0 GO TO 445-HT.
053900             ADD 1 TO FOUND-GRAM.
054000 450-PRINT.
054100             MOVE HTCNT TO HT-CODE-P1.
054200             MOVE IGRAM (HTCNT) TO TOT-GRAMS-GREEN.
054300             MOVE IPROD (HTCNT) TO TOT-PROD-GREEN-P1.
054400             MOVE IUTIL TO UTIL-WTD-AVG-PCT-P1.
054500             COMPUTE WTDUTIL ROUNDED = 1 / (100 - IUTIL) * 100.
054600             MOVE WTDUTIL TO UTIL-AVG-ADJ-FCTR-P1.
054700             COMPUTE GREENWT ROUNDED = IPROD (HTCNT) / WTDUTIL.
054800             ADD .5 GREENWT GIVING LBS-GREEN-P1.
054900 460-FIND-ADW.
055000             MOVE SPECIES-WK TO S-SYMB.
055100             MOVE SDPU TO S-SDRP.
055200             MOVE ITYP TO S-TYP.
055300             MOVE SDRPTS-CNTL TO SDRPTS-I1.
055400*            DISPLAY "GOT TO 460".
055500             READ FILE-I1 KEY IS SDRPTS-I1
055600                 INVALID KEY
055700                 PERFORM 795-NO-CAL
055800                 GO TO 475-CONT.
055900*            DISPLAY SDPU SPACE IALOT IPAST SPACE ISWA ITRN SPACE
056000*            ITYP SPACE SPECIES-WK SPACE IUTIL SPACE IPHEN SPACE
056100*            "PLANT NOT FOUND ON ADW-PHENO FILE " FILE-STATUS
056200*            MOVE " AIR DRY WEIGHT & AVE PHENOLOGY MISSING" TO REMAR
056300*            ADD 1 TO INCOMP
056400*            MOVE 1 TO PASS-SW
056500*            MOVE ZERO TO PHENWT CLIMWT DRYWT
056600*            GO TO 475-CONT.
056700*            STOP RUN.
056800*470-CONTINUE.
056900             MOVE REC-I1 TO ADJ-WORK.
057000             IF IPHEN < 1 OR > 8
057100*            DISPLAY SDPU SPACE IALOT IPAST SPACE ISWA ITRN SPACE
057200*            ITYP SPACE SPECIES-WK SPACE IUTIL SPACE IPHEN SPACE
057300*            "PHENOLOGY STAGE NOT VALID "
057400             MOVE " INVALID PHENOLOGY STAGE " TO REMARK-3-P1
057500             MOVE ALL "*" TO PHENO-WGTD-AVG-P1
057600             ADD 1 TO INCOMP
057700             MOVE 1 TO PASS-SW
057800             MOVE ZERO TO PHENWT CLIMWT DRYWT
057900             GO TO 475-CONT.
058000*            STOP RUN.
058100             IF ADWPCT (IPHEN) = ZERO
058200*            DISPLAY "ADJ= " ADJ-WORK
058300*            DISPLAY SDPU SPACE IALOT IPAST SPACE ISWA ITRN SPACE
058400*            ITYP SPACE SPECIES-WK SPACE IUTIL SPACE IPHEN SPACE
058500*            " AIR DRY WT NOT STORED "

```

```

058600      MOVE 0 TO PCT-ADW-P1
058700      MOVE "                AIR DRY WEIGHT PCT = ZERO"
058800      TO REMARK-3-P1
058900      MOVE FENO (IPHEN) TO PHENO-WGTD-AVG-P1
059000      ADD 1 TO INCOMP
059100      MOVE 1 TO PASS-SW
059200      MOVE ZERO TO PHENWT CLIMWT DRYWT
059300      GO TO 475-CONT.
059400*     STOP RUN.
059500      MOVE ADWPCT (IPHEN) TO PCT-ADW-P1.
059600      COMPUTE DRYWT ROUNDED = IPROD (HTCNT) * ADWPCT (IPHEN).
059700      ADD .005 DRYWT GIVING TOT-PROD-DRY-P1.
059800      IF PH-ADJ (IPHEN) = ZERO
059900          DISPLAY "ADJ= " ADJ-WORK
060000          DISPLAY "PHENO ADJ FACTOR NOT STORED  "
060100          SPECIES-WK  IPHEN
060200      MOVE "                ADJ. FACTOR = ZERO"
060300      TO REMARK-3-P1
060400      MOVE ZERO TO PHENO-ADJ-FCTR-P1
060500      MOVE FENO (IPHEN) TO PHENO-WGTD-AVG-P1
060600      ADD 1 TO INCOMP
060700      MOVE 1 TO PASS-SW
060800      MOVE ZERO TO PHENWT CLIMWT
060900      GO TO 475-CONT.
061000*     STOP RUN.
061100      MOVE FENO (IPHEN) TO PHENO-WGTD-AVG-P1.
061200      MOVE PH-ADJ (IPHEN) TO PHENO-ADJ-FCTR-P1.
061300      COMPUTE PHENWT ROUNDED = DRYWT * PH-ADJ (IPHEN).
061400      ADD .005 PHENWT GIVING TOT-PROD-PHENO-P1.
061500      COMPUTE CLIMWT ROUNDED = PHENWT * CL-ADJ.
061600      ADD .005 CLIMWT GIVING TOT-PROD-CLIM-P1.
061700 475-CONT.
061800      IF PAGE-COUNT = 1
061900          DISPLAY PRINT-WORK-1-P1.
062000      WRITE REC-P1 FROM PRINT-WORK-1-P1
062100      ADD 1 TO LINE-COUNT.
062200      MOVE SPACE TO REC-D1.
062300      MOVE SDRP TO SDRP-D1.
062400      MOVE PSWA TO SWA-D1.
062500      MOVE PTRAN TO TRAN-D1.
062600      MOVE ITYP TO PLANT-TYPE-D1.
062700      MOVE SPECIES-WK TO PLANT-CD-D1.
062800      MOVE HTCNT TO HT-CODE-D1.
062900      IF PASS-SW = ZERO
063000          ADD .05 CLIMWT GIVING TOT-PROD-D1 ELSE
063100          MOVE ZERO TO TOT-PROD-D1 PASS-SW.
063200*     DISPLAY REC-D1.
063300      WRITE REC-D1.
063400      ADD IGRAM (HTCNT) TO S-GRAM.
063500      ADD IPROD (HTCNT) TO S-PROD-UTIL.
063600      ADD GREENWT          TO S-PROD.
063700      ADD DRYWT           TO S-PROD-DRY.
063800      ADD PHENWT         TO S-PROD-PHEN.
063900      ADD CLIMWT        TO S-PROD-CLIM.
064000      GO TO 445-HT.
064100 500-NEXT-SPP.
064200      MOVE SDPU TO HOLD-SDRP.

```

```

064300 MOVE IALOT TO HOLD-ALLOT.
064400 MOVE IPAST TO HOLD-PAST.
064500 MOVE ISWA TO HOLD-SWA.
064600 MOVE ITRN TO HOLD-TRN.
064700 MOVE ITYP TO HOLD-TYPE.
064800 MOVE SPECIES-WK TO HOLD-SYMB.
064900 IF (HOLD-SYMB = "BARREN")
065000     NEXT SENTENCE ELSE
065100     IF FOUND-GRAM = 0 MOVE SPECIES-WK TO SPECIES-2-P1
065200     WRITE REC-P1 FROM PRINT-WORK-3-P1
065300     ADD 1 TO LINE-COUNT
065400     IF PAGE-COUNT = 1
065500         DISPLAY PRINT-WORK-3-P1.
065600     PERFORM 200-RD-SPECIES-SUM THRU 210-EX.
065700 510-CK-STAT.
065800     IF U1-SW = 1 PERFORM 600-SPP-TOT
065900         THRU 810-EXIT
066000         DISPLAY "PAGES PRINTED= " PAGE-COUNT
066100     CLOSE FILE-D2 FILE-D3 FILE-I1 FILE-P1 FILE-D1
066200     FINISH DIC-DE
066300     IF M1-SW = 0 DISPLAY SWA-COMP
066400     " END OF SWA FILE NOT REACHED"
066500     STOP RUN.
066600     IF WORK-KEY = HOLD-KEY
066700         GO TO 520-CK.
066800         PERFORM 600-SPP-TOT THRU 810-EXIT.
066900         IF M1-SW = 0 PERFORM 100-READ-SWA.
067000         GO TO 300-CK-EQ.
067100 520-CK.
067200     IF HOLD-SYMB = "BARREN "
067300         GO TO 400-PRINT.
067400     IF SPECIES-WK NOT = HOLD-SYMB
067500         PERFORM 601-SPP-TOT THRU 699-EXIT.
067600     IF ITYP NOT = HOLD-TYPE
067700         PERFORM 700-TYP-TOT THRU 790-EXIT.
067800     GO TO 400-PRINT.
067900*
068000 600-SPP-TOT.
068100     IF HOLD-SYMB = "BARREN "
068200         GO TO 810-EXIT.
068300 601-SPP-TOT.
068400     IF HOLD-SYMB = "BARREN "
068500         GO TO 699-EXIT.
068600     IF S-GRAM = 0 GO TO 690-EXIT.
068700     IF FOUND-GRAM < 2 MOVE 0 TO FOUND-GRAM GO TO 690-EXIT.
068800     MOVE SPACES TO PRINT-WORK-1-P1.
068900     MOVE HOLD-SYMB TO SPECIES-P1.
069000     MOVE "TOTAL" TO REMARK-1-P1.
069100     ADD .5 S-GRAM GIVING TOT-GRAMS-GREEN.
069200     ADD .5 S-PROD GIVING LBS-GREEN-P1.
069300     ADD .5 S-PROD-UTIL GIVING TOT-PROD-GREEN-P1.
069400     MOVE S-PROD-DRY TO TOT-PROD-DRY-P1.
069500     MOVE S-PROD-PHEN TO TOT-PROD-PHENO-P1.
069600     MOVE S-PROD-CLIM TO TOT-PROD-CLIM-P1.
069700     IF PAGE-COUNT = 1
069800         DISPLAY SPACES
069900         DISPLAY PRINT-WORK-1-P1.

```

```

070000     WRITE REC-P1 FROM PRINT-WORK-1-P1 AFTER ADVANCING 2 LINES.
070100         ADD 2 TO LINE-COUNT.
070200 690-EXIT.
070300     IF PAGE-COUNT = 1
070400         DISPLAY SPACES
070500         MOVE SPACES TO REC-P1  WRITE REC-P1
070600         ADD 1 TO LINE-COUNT.
070700     ADD S-GRAM TO T-GRAM.
070800     ADD S-PROD TO T-PROD.
070900     ADD S-PROD-UTIL TO T-PROD-UTIL.
071000     ADD S-PROD-DRY  TO T-PROD-DRY.
071100     ADD S-PROD-PHEN TO T-PROD-PHEN.
071200     ADD S-PROD-CLIM TO T-PROD-CLIM.
071300     MOVE ZEROS TO SPEC-TOT.
071400 699-EXIT.
071500     EXIT.
071600 700-TYP-TOT.
071700     IF T-GRAM = 0 GO TO 790-EXIT.
071800     MOVE SPACES TO PRINT-WORK-1-P1.
071900     IF TYPCNT < 2 GO TO 790-EXIT.
072000     IF HOLD-TYPE = 1 MOVE "*** GRASS " TO SPECIES-P1
072100         MOVE 0 TO G-CNT.
072200     IF HOLD-TYPE = 2 MOVE "***  FORB " TO SPECIES-P1
072300         MOVE 0 TO F-CNT.
072400     IF HOLD-TYPE = 3 MOVE " SHRUB & " TO SPECIES-P1
072500         WRITE REC-P1 FROM SPECIES-P1
072600             IF PAGE-COUNT = 1
072700                 DISPLAY SPECIES-P1.
072800     IF HOLD-TYPE = 3 MOVE "***  TREE " TO SPECIES-P1
072900         MOVE 0 TO T-CNT.
073000     MOVE "TOTAL" TO REMARK-1-P1.
073100     ADD .5 T-GRAM GIVING TOT-GRAMS-GREEN.
073200     ADD .5 T-PROD GIVING LBS-GREEN-P1.
073300     ADD .5 T-PROD-UTIL GIVING TOT-PROD-GREEN-P1.
073400     MOVE T-PROD-DRY  TO TOT-PROD-DRY-P1.
073500     MOVE T-PROD-PHEN TO TOT-PROD-PHENO-P1.
073600     MOVE T-PROD-CLIM TO TOT-PROD-CLIM-P1.
073700     IF PAGE-COUNT = 1
073800         DISPLAY PRINT-WORK-1-P1.
073900         WRITE REC-P1 FROM PRINT-WORK-1-P1
074000         ADD 1 TO LINE-COUNT.
074100 790-EXIT.
074200     MOVE SPACES TO REC-P1.
074300     IF HOLD-TYPE < 3 WRITE REC-P1
074400         ADD 1 TO LINE-COUNT
074500             IF PAGE-COUNT = 1
074600                 DISPLAY SPACES.
074700     ADD T-GRAM TO W-GRAM.
074800     ADD T-PROD TO W-PROD.
074900     ADD T-PROD-UTIL TO W-PROD-UTIL.
075000     ADD T-PROD-DRY  TO W-PROD-DRY.
075100     ADD T-PROD-PHEN TO W-PROD-PHEN.
075200     ADD T-PROD-CLIM TO W-PROD-CLIM.
075300     MOVE ZERO TO TYPCNT.
075400     MOVE ZEROS TO TYP-TOT.
075500 795-NO-CAL.
075600*     NOTE: ADW PERCENT 100%, PHENO ADJ FCTR 1.00.

```

```

075700     MOVE 1.00 TO PCT-ADW-P1.
075800     COMPUTE DRYWT ROUNDED = IPROD (HTCNT) * 1.00.
075900     ADD .005 DRYWT GIVING TOT-PROD-DRY-P1.
076000     MOVE "NO ADJUSTMENTS" TO PHENO-WGTD-AVG-P1.
076100     COMPUTE PHENWT ROUNDED = DRYWT * 1.00.
076200     ADD .005 PHENWT GIVING TOT-PROD-PHENO-P1.
076300     COMPUTE CLIMWT ROUNDED = PHENWT * CL-ADJ.
076400     ADD .005 CLIMWT GIVING TOT-PROD-CLIM-P1.
076500     MOVE 01.00 TO PHENO-ADJ-FCTR-P1.
076600 800-WRAPUP.
076700     IF W-GRAM = 0 GO TO 810-EXIT.
076800     MOVE SPACES TO PRINT-WORK-1-P1.
076900     MOVE "TRANSECT" TO SPECIES-P1.
077000     MOVE "TOTAL" TO REMARK-1-P1.
077100     ADD .5 W-GRAM GIVING TOT-GRAMS-GREEN.
077200     ADD .5 W-PROD GIVING LBS-GREEN-P1.
077300     ADD .5 W-PROD-UTIL GIVING TOT-PROD-GREEN-P1.
077400     MOVE W-PROD-DRY TO TOT-PROD-DRY-P1.
077500     MOVE W-PROD-PHEN TO TOT-PROD-PHENO-P1.
077600     MOVE W-PROD-CLIM TO TOT-PROD-CLIM-P1.
077700     IF PAGE-COUNT = 1
077800         DISPLAY SPACES
077900         DISPLAY PRINT-WORK-1-P1.
078000     WRITE REC-P1 FROM PRINT-WORK-1-P1 AFTER ADVANCING 2 LINES.
078100     IF INCOMP > 0 MOVE
078200     "*** ERRONEOUS OR MISSING DATA ENCOUNTERED FOR THIS SWAT ***"
078300     TO REMARK-2-P1
078400     MOVE SPACES TO GROUP-1-P1
078500*     WRITE REC-P1 FROM PRINT-WORK-1-P1 AFTER ADVANCING 2 LINES.
078600     MOVE 0 TO INCOMP.
078700     MOVE ZEROS TO SWAT-TOT.
078800 810-EXIT.     EXIT.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES575M.
000300*     CONSOLIDATE TOTAL PRODUCTION BY HEIGHT CLASS
000400*     WITHIN SWAT/PLANT.
000500*
000600 AUTHOR. RON BAKER.
000700 INSTALLATION. USBLM.
000800 DATE-WRITTEN. DECEMBER 5, 1979.
000900 DATE-COMPILED.
001000 ENVIRONMENT DIVISION.
001100 CONFIGURATION SECTION.
001200 SOURCE-COMPUTER. LEVEL-66-ASCII.
001300 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001400 INPUT-OUTPUT SECTION.
001500 FILE-CONTROL.
001600     SELECT FILE-D1
001700         ASSIGN TO D1
001800         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
001900         ACCESS IS SEQUENTIAL.
002000     SELECT FILE-D2
002100         ASSIGN TO D2
002200         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002300         ACCESS IS SEQUENTIAL.
002400     SELECT FILE-D3

```

002500            ASSIGN TO D3  
 002600            ORGANIZATION IS GFRC SEQUENTIAL WITH SSF  
 002700            ACCESS IS SEQUENTIAL.  
 002800 DATA DIVISION.  
 002900 FILE SECTION.  
 003000 FD   FILE-D1  
 003100        CODE-SET IS GBCD  
 003200        LABEL RECORDS ARE STANDARD  
 003300        DATA RECORD IS REC-D1.  
 003400 01   REC-D1.  
 003500        03   SDRP-D1            PIC X(8).  
 003600        03   SWAT-D1.  
 003700            05   SWA-D1        PIC XXXX.  
 003800            05   TRAN-D1       PIC 99.  
 003900        03   SPECIES-TYP-D1     PIC 9.  
 004000        03   SPECIES-CD-D1     PIC X(7).  
 004100        03   HT-CODE-D1        PIC 9.  
 004200        03   TOT-PROD-D1       PIC 9(5)V9.  
 004300        03   FILLER            PIC X.  
 004400 FD   FILE-D2  
 004500        CODE-SET IS GBCD  
 004600        LABEL RECORDS ARE STANDARD  
 004700        DATA RECORD IS REC-D2 REC-D2A.  
 004800 01   REC-D2.  
 004900        03   SDRP-D2.  
 005000            05   ST-D2           PIC XX.  
 005100            05   DIS-D2          PIC 99.  
 005200            05   RA-D2          PIC 99.  
 005300            05   PLU-D2          PIC 99.  
 005400        03   ALOT-D2            PIC 9999.  
 005500        03   PAST-D2          PIC 99.  
 005600        03   SWAT-D2.  
 005700            05   SWA-D2        PIC XXXX.  
 005800            05   TRAN-D2       PIC 99.  
 005900        03   REC-KEY-D2        PIC 9.  
 006000        03   SPECIES-CD-D2     PIC X(7).  
 006100        03   SPECIES-TYP-D2     PIC 9.  
 006200        03   PLANTS-WI-ACRE-D2  PIC X(65).  
 006300        03   AVG-HT-D2          PIC 999V9.  
 006400        03   AVG-CRWN-D2       PIC 99V9.  
 006500        03   WTD-AVG-AVAIL-D2  PIC 999.  
 006600        03   TOT-PLANTS-D2     PIC 9(5).  
 006700        03   WTD-AVG-UTIL-D2   PIC 999.  
 006800        03   WTD-AVG-PHNO-D2   PIC 9.  
 006900        03   GRAMS-PROD-HT-CLS-D2 PIC X(40).  
 007000        03   PLOTS-CHR2-D2     PIC XX.  
 007100        03   FILLER            PIC X.  
 007200 01   REC-D2A.  
 007300        03   D2A1   PIC X(29).  
 007400        03   FILLER   PIC X(124).  
 007500        03   FILLER   PIC XXX.  
 007600 FD   FILE-D3  
 007700        CODE-SET IS GBCD  
 007800        LABEL RECORDS ARE STANDARD  
 007900        DATA RECORD IS REC-D3 REC-D3A.  
 008000 01   REC-D3.  
 008100        03   SDRP-D3.

008200 05 ST-D3 PIC XX.  
008300 05 DIS-D3 PIC 99.  
008400 05 RA-D3 PIC 99.  
008500 05 PLU-D3 PIC 99.  
008600 03 ALOT-D3 PIC 9999.  
008700 03 PAST-D3 PIC 99.  
008800 03 SWAT-D3.  
008900 05 SWA-D3 PIC XXXX.  
009000 05 TRAN-D3 PIC 99.  
009100 03 REC-KEY-D3 PIC 9.  
009200 03 SPECIES-CD-D3 PIC X(7).  
009300 03 SPECIES-TYP-D3 PIC 9.  
009400 03 PLANTS-WI-ACRE-D3 PIC X(65).  
009500 03 AVG-HT-D3 PIC 999V9.  
009600 03 AVG-CRWN-D3 PIC 99V9.  
009700 03 WTD-AVG-AVAIL-D3 PIC 999.  
009800 03 TOT-PLANTS-D3 PIC 9(5).  
009900 03 WTD-AVG-UTIL-D3 PIC 999.  
010000 03 WTD-AVG-PHNO-D3 PIC 9.  
010100 03 GRAMS-PROD-HT-CLS-D3 PIC X(40).  
010200 03 ADW-PROD-GRP.  
010300 05 ADW-PROD-HCC-D3 OCCURS 4 TIMES PIC 9(5)V9.  
010400 03 FILLER PIC X(19).  
010500 03 PLOTS-CHR2-D3 PIC XX.  
010600 01 REC-D3A.  
010700 03 D3A1 PIC X(29).  
010800 03 FILLER PIC X(124).  
010900 03 D3A2 PIC X(45).  
011000 WORKING-STORAGE SECTION.  
011100 77 END-SW-D1 PIC 9 VALUE ZERO.  
011200 77 END-SW-D2 PIC 9 VALUE ZERO.  
011300 01 CNTRL-D1.  
011400 03 SDRP-C-D1 PIC X(8).  
011500 03 SWAT-C-D1 PIC X(6).  
011600 03 SPECIES-TYP-C-D1 PIC 9.  
011700 03 SPECIES-CD-C-D1 PIC X(7).  
011800 01 CNTRL-D2.  
011900 03 SDRP-C-D2 PIC X(8).  
012000 03 SWAT-C-D2 PIC X(6).  
012100 03 SPECIES-TYP-C-D2 PIC 9.  
012200 03 SPECIES-CD-C-D2 PIC X(7).  
012300 01 CURRENT-DATE.  
012400 05 CURRENT-YEAR PIC XX.  
012500 05 CURRENT-MONTH PIC XX.  
012600 05 CURRENT-DAY PIC XX.  
012700 01 DISP-CNTS.  
012800 03 CNT-1 VALUE ZERO PIC 9(8).  
012900 03 FILLER VALUE "=D1-IN " PIC XXXXXXXX.  
013000 03 CNT-2 VALUE ZERO PIC 9(8).  
013100 03 FILLER VALUE "=D2-IN " PIC XXXXXXXX.  
013200 03 CNT-3 VALUE ZERO PIC 9(8).  
013300 03 FILLER VALUE "=D3-OUT " PIC XXXXXXXX.  
013400 03 CNT-4 VALUE ZERO PIC 9(8).  
013500 03 FILLER VALUE "= " PIC XXXXXXXX.  
013600 03 CNT-5 VALUE ZERO PIC 9(8).  
013700 03 FILLER VALUE "= " PIC XXXXXXXX.  
013800 03 CNT-6 VALUE ZERO PIC 9(8).



```

013900 01 P-SPACE      PIC X(132)  VALUE SPACE.
014000 PROCEDURE DIVISION.
014100 100-OPEN.
014200     DISPLAY "THE FOLLOWING RECORDS CONTAINED ON THE ES050PD1 ".
014300     DISPLAY "   FILE DO NOT MATCH THE ES570PD1 FILE ON STATE, ".
014400     DISPLAY "   DIST, RA, PLU, SWAT AND SPECIES.           ".
014500     DISPLAY P-SPACE.
014600     ACCEPT CURRENT-DATE FROM DATE.
014700     OPEN INPUT FILE-D1 FILE-D2.
014800     OPEN OUTPUT FILE-D3.
014900 200-READ-D2.
015000     READ FILE-D2
015100         AT END MOVE 1 TO END-SW-D2
015200         GO TO 200-EXIT.
015300     ADD 1 TO CNT-2.
015400     MOVE SDRP-D2 TO SDRP-C-D2.
015500     MOVE SWAT-D2 TO SWAT-C-D2.
015600     MOVE SPECIES-TYP-D2 TO SPECIES-TYP-C-D2.
015700     MOVE SPECIES-CD-D2 TO SPECIES-CD-C-D2.
015800 200-EXIT.
015900     EXIT.
016000 300-READ-D1.
016100     READ FILE-D1
016200         AT END MOVE 1 TO END-SW-D1
016300         MOVE "ZZ" TO SDRP-C-D1
016400         GO TO 300-EXIT.
016500     ADD 1 TO CNT-1.
016600     MOVE SDRP-D1 TO SDRP-C-D1.
016700     MOVE SWAT-D1 TO SWAT-C-D1.
016800     MOVE SPECIES-TYP-D1 TO SPECIES-TYP-C-D1.
016900     MOVE SPECIES-CD-D1 TO SPECIES-CD-C-D1.
017000 300-EXIT.
017100     EXIT.
017200 400-CONTROLS.
017300     IF END-SW-D2 = 1
017400         GO TO 900-EOJ.
017500     IF CNTRL-D1 = CNTRL-D2
017600         GO TO 500-BUILD-D3.
017700     IF CNTRL-D2 > CNTRL-D1
017800         GO TO 300-READ-D1.
017900     MOVE REC-D2 TO REC-D3.
018000     MOVE PLOTS-CHR2-D2 TO PLOTS-CHR2-D3.
018100     MOVE ZEROS TO ADW-PROD-GRP.
018200*     DISPLAY D3A1
018300*     DISPLAY D3A2.
018400     WRITE REC-D3.
018500     ADD 1 TO CNT-3.
018600     ADD 1 TO CNT-4.
018700     PERFORM 200-READ-D2 THRU 200-EXIT.
018800     IF END-SW-D1 = 1
018900         GO TO 900-EOJ.
019000     GO TO 400-CONTROLS.
019100 500-BUILD-D3.
019200     MOVE SPACE TO REC-D3.
019300     MOVE REC-D2 TO REC-D3.
019400     MOVE PLOTS-CHR2-D2 TO PLOTS-CHR2-D3.
019500     MOVE ZEROS TO ADW-PROD-GRP.

```

```

019600     MOVE TOT-PROD-D1 TO ADW-PROD-HCC-D3 (HT-CODE-D1).
019700 510-RD-LOOP.
019800     PERFORM 300-READ-D1 THRU 300-EXIT.
019900     IF CNTRL-D2 = CNTRL-D1
020000         MOVE TOT-PROD-D1 TO ADW-PROD-HCC-D3 (HT-CODE-D1)
020100         GO TO 510-RD-LOOP.
020200 520-WR-D3.
020300     WRITE REC-D3.
020400     ADD 1 TO CNT-3.
020500     ADD 1 TO CNT-5.
020600     PERFORM 200-READ-D2 THRU 200-EXIT.
020700     GO TO 400-CONTROLS.
020800 900-EOJ.
020900     DISPLAY DISP-CNTS.
021000     CLOSE FILE-D1 FILE-D2 FILE-D3.
021100     DISPLAY "EOJ".
021200     STOP RUN.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES590M.
000300*     CONSOLIDATE STRATUM/RNG SITE/SWA-PCT WITH SPECIES SUMMARY
000400*     DATA BY SWAT.
000500*
000600 AUTHOR. EARL BEAM.
000700 INSTALLATION. USBLM.
000800 DATE-WRITTEN. SEPTEMBER 10, 1979.
000900 DATE-COMPILED. SEPTEMBER 11, 1979.
001000 ENVIRONMENT DIVISION.
001100 CONFIGURATION SECTION.
001200 SOURCE-COMPUTER. LEVEL-66-ASCII.
001300 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001400 INPUT-OUTPUT SECTION.
001500 FILE-CONTROL.
001600     SELECT SPEC-SUM-FILE
001700         ASSIGN TO D1
001800         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
001900         ACCESS IS SEQUENTIAL.
002000     SELECT SWA-FILE
002100         ASSIGN TO D2
002200         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002300         ACCESS IS SEQUENTIAL.
002400     SELECT STRAT-SPEC-SUM-FILE
002500         ASSIGN TO D3
002600         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002700         ACCESS IS SEQUENTIAL.
002800 DATA DIVISION.
002900 FILE SECTION.
003000 FD SPEC-SUM-FILE
003100     CODE-SET IS GBCD
003200     LABEL RECORDS ARE STANDARD
003300     DATA RECORD IS SPEC-SUM-REC.
003400 01 SPEC-SUM-REC.
003500     05 SPEC-SUM-RECA.
003600         10 SPEC-SUM-CONTROL.
003700             15 BLM-ADM-U           PIC X(8).
003800             15 FILLER             PIC X(6).
003900             15 SWA                 PIC X(4).

```

```

004000          15  TRN-NUM          PIC X(2).
004100          10  SPEC-SUM-DATA    PIC X(157).
004200          05  FILLER           PIC X(19).
004300          05  PLOTS-CHRZ-A     PIC XX.
004400 FD      SWA-FILE
004500          CODE-SET IS GBCD
004600          LABEL RECORDS ARE STANDARD
004700          DATA RECORD IS SSWA-REC.
004800 01      SSWA-REC.
004900          05  SWA-FILE-KEY      PIC X(14).
005000          05  RANGE-SITE        PIC X(11).
005100          05  STRATUM           PIC 9(4).
005200          05  SWA-PERCENT       PIC 9(3).
005300          05  FILLER           PIC X(6).
005400          05  COMPARISON-AREA   PIC X.
005500          05  FILLER           PIC X(9).
005600 FD      STRAT-SPEC-SUM-FILE
005700          CODE-SET IS GBCD
005800          LABEL RECORDS ARE STANDARD
005900          DATA RECORD IS SPEC-SUM-RECB.
006000 01      SPEC-SUM-RECB.
006100          05  NEW-SPEC-SUM-RECB.
006200          10  NEW-SPEC-SUM-CONTROL PIC X(20).
006300          10  FILLER           PIC X(157).
006400          05  ADDED-RANGE-SITE   PIC X(11).
006500          05  ADDED-STRATUM     PIC 9(4).
006600          05  ADDED-COMPARISON-AREA PIC X.
006700          05  ADDED-SWA-PERCENT PIC 9(3).
006800          05  PLOTS-CHRZ-B     PIC X(2).
006900 WORKING-STORAGE SECTION.
007000 77      MATCH-COUNT          PIC 9(8) VALUE ZERO.
007100 77      INITIALIZE-COUNT     PIC 9(8) VALUE ZERO.
007200 77      EOF-SW              PIC 9 VALUE ZERO.
007300 77      UPDATE-COUNT        PIC 9(8) VALUE ZERO.
007400 77      DISPLAY-COUNT       PIC 9(8) VALUE ZERO.
007500 77      WRITE-COUNT         PIC 9(8) VALUE ZERO.
007600 01      SPEC-SUM-CONTROL-HOLD PIC X(20) VALUE SPACES.
007700 01      SPEC-SUM-KEY.
007800          05  ST-DIST-RA-PLU-KEY.
007900          10  ADST-KEY        PIC XX.
008000          10  DIST-KEY       PIC XX.
008100          10  RA-KEY         PIC XX.
008200          10  PLU-KEY       PIC XX.
008300          05  SWA-KEY        PIC X(4).
008400          05  TRN-KEY       PIC XX.
008500 PROCEDURE DIVISION.
008600 000-OPEN-FILES.
008700          OPEN INPUT SPEC-SUM-FILE SWA-FILE.
008800          OPEN OUTPUT STRAT-SPEC-SUM-FILE.
008900          MOVE LOW-VALUES TO SWA-FILE-KEY.
009000 100-MAINLINE.
009100          PERFORM 200-READ-SPEC-SUM THRU 299-EXIT.
009200          IF EOF-SW = 1
009300              DISPLAY "NUMBER OF MATCHED RECORDS   =" MATCH-COUNT
009400              DISPLAY "NUMBER OF RECORDS WRITTEN   =" WRITE-COUNT
009500              DISPLAY "NUMBER OF INITIALIZED RECS  =" INITIALIZE-COUNT
009600              DISPLAY "NUMBER OF SPEC-SUM RECORDS  =" UPDATE-COUNT

```

```
009700         DISPLAY "NUMBER OF DISPLAYED RECS      =" DISPLAY-COUNT
009800         CLOSE SPEC-SUM-FILE STRAT-SPEC-SUM-FILE SWA-FILE
009900         STOP RUN.
010000 110-LOOP.
010100         IF SWA-FILE-KEY GREATER THAN SPEC-SUM-KEY
010200             PERFORM 400-INITIALIZE THRU 499-EXIT
010300             PERFORM 500-WRITE-STRAT-SPEC-SUM THRU 599-EXIT
010400             PERFORM 600-DISPLAY-MSG THRU 699-EXIT
010500             GO TO 100-MAINLINE.
010600         IF SPEC-SUM-KEY GREATER THAN SWA-FILE-KEY
010700             PERFORM 300-READ-SWA THRU 399-EXIT
010800             GO TO 110-LOOP.
010900         PERFORM 700-MOVE-FIELDS THRU 799-EXIT.
011000         PERFORM 500-WRITE-STRAT-SPEC-SUM THRU 599-EXIT.
011100         ADD 1 TO MATCH-COUNT.
011200         GO TO 100-MAINLINE.
011300 200-READ-SPEC-SUM.
011400         READ SPEC-SUM-FILE
011500             AT END MOVE 1 TO EOF-SW
011600             GO TO 299-EXIT.
011700         MOVE BLM-ADM-U TO ST-DIST-RA-PLU-KEY.
011800         MOVE SWA TO SWA-KEY.
011900         MOVE TRN-NUM TO TRN-KEY.
012000         ADD 1 TO UPDATE-COUNT.
012100 299-EXIT.
012200         EXIT.
012300 300-READ-SWA.
012400         READ SWA-FILE
012500             AT END MOVE HIGH-VALUES TO SWA-FILE-KEY
012600             GO TO 399-EXIT.
012700 399-EXIT.
012800         EXIT.
012900 400-INITIALIZE.
013000         MOVE SPEC-SUM-RECA TO NEW-SPEC-SUM-RECB.
013100         MOVE PLOTS-CHRZ-A TO PLOTS-CHRZ-B.
013200         INITIALIZE ADDED-RANGE-SITE.
013300         INITIALIZE ADDED-SWA-PERCENT.
013400         INITIALIZE ADDED-STRATUM.
013500         INITIALIZE ADDED-COMPARISON-AREA.
013600         ADD 1 TO INITIALIZE-COUNT.
013700 499-EXIT.
013800         EXIT.
013900 500-WRITE-STRAT-SPEC-SUM.
014000         WRITE SPEC-SUM-RECB.
014100         ADD 1 TO WRITE-COUNT.
014200 599-EXIT.
014300         EXIT.
014400 600-DISPLAY-MSG.
014500         IF SPEC-SUM-CONTROL-HOLD = SPEC-SUM-CONTROL
014600             GO TO 699-EXIT.
014700         DISPLAY "NO SPEC-SUM RECORD FOR " NEW-SPEC-SUM-CONTROL.
014800         ADD 1 TO DISPLAY-COUNT.
014900         MOVE SPEC-SUM-CONTROL TO SPEC-SUM-CONTROL-HOLD.
015000 699-EXIT.
015100         EXIT.
015200 700-MOVE-FIELDS.
015300         MOVE SPEC-SUM-RECA TO SPEC-SUM-RECB.
```

```

015400     MOVE PLOTS-CHRZ-A TO PLOTS-CHRZ-B.
015500     MOVE RANGE-SITE TO ADDED-RANGE-SITE.
015600     MOVE STRATUM     TO ADDED-STRATUM.
015700     MOVE COMPARISON-AREA TO ADDED-COMPARISON-AREA.
015800     MOVE SWA-PERCENT TO ADDED-SWA-PERCENT.
015900 799-EXIT.
016000     EXIT.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES600M.
000300*      EXTRACT TOTAL PLOTS BY SWAT INTO SPECIES SUMMARY RECORD.
000400*
000500 AUTHOR. JOE R, RON BAKER.
000600 INSTALLATION. USBLM.
000700 DATE-WRITTEN. SEPTEMBER 19, 1979.
000800 DATE-COMPILED. SEPTEMBER 11, 1979.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.
001200 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001300 INPUT-OUTPUT SECTION.
001400 FILE-CONTROL.
001500     SELECT STRAT-SPEC-SUM-IN-FILE
001600         ASSIGN TO D1
001700         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
001800         ACCESS IS SEQUENTIAL.
001900     SELECT VEG-EXT-RK9-FILE
002000         ASSIGN TO D2
002100         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002200         ACCESS IS SEQUENTIAL.
002300     SELECT STRAT-SPEC-SUM-O-FILE
002400         ASSIGN TO D3
002500         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002600         ACCESS IS SEQUENTIAL.
002700 DATA DIVISION.
002800 FILE SECTION.
002900 FD  STRAT-SPEC-SUM-IN-FILE
003000     CODE-SET IS GBCD
003100     LABEL RECORDS ARE STANDARD
003200     DATA RECORD IS SPEC-IN-REC.
003300 01  SPEC-IN-REC.
003400     10  SWAT-CONTROL-D1.
003500         15  SDRP-D1  PIC X(8).
003600         15  FILLER    PIC X(6).
003700         15  SWA-D1    PIC X(4).
003800         15  TRN-NUM-D1  PIC X(2).
003900     10  FILLER      PIC X(157).
004000     10  DATA-D1    PIC X(19).
004100     10  FILLER      PIC XX.
004200 FD  VEG-EXT-RK9-FILE
004300     CODE-SET IS GBCD
004400     LABEL RECORDS ARE STANDARD
004500     DATA RECORD IS REC-KEY9.
004600 01  REC-KEY9.
004700     05  SWAT-KEY-D2.
004800         10  ST-D2          PIC XX.
004900         10  DIST-D2       PIC XX.

```

```

005000      10  RA-D2                PIC XX.
005100      10  PLU-D2               PIC XX.
005200      10  SWA-D2               PIC X(4).
005300      10  TRN-NUM-D2          PIC XX.
005400      05  REC-KEY-D2           PIC 9.
005500      05  TOT-PLOTS-D2        PIC 99.
005600      05  FILLER              PIC X(7).
005700  FD  STRAT-SPEC-SUM-O-FILE
005800      CODE-SET IS GBCD
005900      LABEL RECORDS ARE STANDARD
006000      DATA RECORD IS SPEC-OT-REC.
006100  01  SPEC-OT-REC.
006200      05  NEW-SPEC-OT-REC.
006300      10  SWAT-CONTROL-D3      PIC X(20).
006400      10  FILLER              PIC X(157).
006500      05  DATA-D3            PIC X(19).
006600      05  TOT-PLOTS-D3        PIC 99.
006700  WORKING-STORAGE SECTION.
006800  77  EOF-SW                  PIC 9 VALUE ZERO.
006900  77  CNT-1                  PIC 9(8) VALUE ZERO.
007000  77  CNT-2                  PIC 9(8) VALUE ZERO.
007100  77  CNT-3                  PIC 9(8) VALUE ZERO.
007200  77  CNT-4                  PIC 9(8) VALUE ZERO.
007300  77  CNT-5                  PIC 9(8) VALUE ZERO.
007400  77  HOLD-DISPLAY-KEY       PIC X(20) VALUE SPACES.
007500  01  STRAT-SPEC-KEY.
007600      05  ST-DIST-RA-PLU-KEY.
007700      10  ADST-KEY            PIC XX.
007800      10  DIST-KEY            PIC XX.
007900      10  RA-KEY              PIC XX.
008000      10  PLU-KEY             PIC XX.
008100      05  SWA-KEY             PIC X(4).
008200      05  TRN-KEY            PIC XX.
008300  01  VEG-EXT-KEY.
008400      05  ST-KEY-VEG         PIC XX.
008500      05  DIST-KEY-VEG       PIC XX.
008600      05  RA-KEY-VEG        PIC XX.
008700      05  PU-KEY-VEG        PIC XX.
008800      05  SWA-KEY-VEG       PIC X(4).
008900      05  TRN-KEY-VEG       PIC XX.
009000  PROCEDURE DIVISION.
009100  000-OPEN-FILES.
009200      OPEN INPUT  STRAT-SPEC-SUM-IN-FILE VEG-EXT-RK9-FILE.
009300      OPEN OUTPUT STRAT-SPEC-SUM-O-FILE.
009400      MOVE LOW-VALUES TO SWAT-KEY-D2.
009500  100-MAINLINE.
009600      PERFORM 200-READ-STRAT-SPEC THRU 299-EXIT.
009700      IF EOF-SW = 1
009800          DISPLAY "TRANSECTS INPUT      = " CNT-1
009900          DISPLAY "STRAT RECS INPUT     = " CNT-2
010000          DISPLAY "TRANSECTS MATCHED  = " CNT-3
010100          DISPLAY "TRANSECTS UNMATCHED= " CNT-5
010200          DISPLAY "RECORDS OUTPUT      = " CNT-4
010300          CLOSE STRAT-SPEC-SUM-IN-FILE STRAT-SPEC-SUM-O-FILE
010400          VEG-EXT-RK9-FILE
010500          STOP RUN.
010600  110-LOOP.

```

```

010700     IF VEG-EXT-KEY GREATER THAN STRAT-SPEC-KEY
010800         MOVE SPEC-IN-REC TO SPEC-OT-REC
010900         MOVE DATA-D1 TO DATA-D3
011000         INITIALIZE TOT-PLOTS-D3
011100         WRITE SPEC-OT-REC
011200         ADD 1 TO CNT-4
011300         PERFORM 600-DISPLAY-MSG THRU 699-EXIT
011400         GO TO 100-MAINLINE.
011500     IF STRAT-SPEC-KEY GREATER THAN VEG-EXT-KEY
011600         PERFORM 300-READ-VEG-EXT THRU 399-EXIT
011700         GO TO 110-LOOP.
011800     MOVE SPEC-IN-REC TO SPEC-OT-REC.
011900     MOVE DATA-D1 TO DATA-D3.
012000     MOVE TOT-PLOTS-D2 TO TOT-PLOTS-D3.
012100     WRITE SPEC-OT-REC.
012200     ADD 1 TO CNT-4.
012300     ADD 1 TO CNT-3.
012400     GO TO 100-MAINLINE.
012500 200-READ-STRAT-SPEC.
012600     READ STRAT-SPEC-SUM-IN-FILE
012700         AT END MOVE 1 TO EOF-SW
012800         GO TO 299-EXIT.
012900     MOVE SDRP-D1 TO ST-DIST-RA-PLU-KEY.
013000     MOVE SWA-D1 TO SWA-KEY.
013100     MOVE TRN-NUM-D1 TO TRN-KEY.
013200     ADD 1 TO CNT-2.
013300 299-EXIT.
013400     EXIT.
013500 300-READ-VEG-EXT.
013600     READ VEG-EXT-RK9-FILE
013700         AT END MOVE HIGH-VALUES TO VEG-EXT-KEY
013800         GO TO 399-EXIT.
013900     ADD 1 TO CNT-1.
014000     IF REC-KEY-D2 NOT EQUAL 9
014100         GO TO 300-READ-VEG-EXT.
014200     MOVE ST-D2 TO ST-KEY-VEG.
014300     MOVE DIST-D2 TO DIST-KEY-VEG.
014400     MOVE PLU-D2 TO PU-KEY-VEG.
014500     MOVE RA-D2 TO RA-KEY-VEG.
014600     MOVE SWA-D2 TO SWA-KEY-VEG.
014700     MOVE TRN-NUM-D2 TO TRN-KEY-VEG.
014800 399-EXIT.
014900     EXIT.
015000 600-DISPLAY-MSG.
015100     IF HOLD-DISPLAY-KEY = SWAT-CONTROL-D1
015200         GO TO 699-EXIT.
015300     ADD 1 TO CNT-5.
015400     DISPLAY "NO VEG-EXT RECORD FOR " SWAT-CONTROL-D3.
015500     MOVE SWAT-CONTROL-D1 TO HOLD-DISPLAY-KEY.
015600 699-EXIT.
015700     EXIT.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES610P.
000300*     AVERAGE AIR DRY PRODUCTION (P7 LIST).
000400*
000500 AUTHOR. BILL FORTE.

```

000600 INSTALLATION. USBLM.  
000700 DATE-WRITTEN. SEPTEMBER 13, 1979.  
000800 DATE-COMPILED. TODAY.  
000900 ENVIRONMENT DIVISION.  
001000 CONFIGURATION SECTION.  
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.  
001200 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.  
001300 INPUT-OUTPUT SECTION.  
001400 FILE-CONTROL.  
001500     SELECT SPEC-SUM-FILE  
001600         ASSIGN TO D1  
001700         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF  
001800         ACCESS IS SEQUENTIAL.  
001900     SELECT STRAT-AVG-FILE  
002000         ASSIGN TO D2  
002100         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF  
002200         ACCESS IS SEQUENTIAL.  
002300     SELECT STRAT-FILE  
002400         ASSIGN TO D3  
002500         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF  
002600         ACCESS IS SEQUENTIAL.  
002700     SELECT PRINT-FILE  
002800         ASSIGN TO P1-PRINTER  
002900         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003000     SELECT SORT-FILE  
003100         ASSIGN TO S1  
003200         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003300 DATA DIVISION.  
003400 SUB-SCHEMA SECTION.  
003500 DB CODVAL2 WITHIN BLMDIC.  
003600 FILE SECTION.  
003700 FD SPEC-SUM-FILE  
003800     CODE-SET IS GBCD  
003900     LABEL RECORDS ARE STANDARD  
004000     DATA RECORD IS SPEC-SUM-REC.  
004100 01 SPEC-SUM-REC.  
004200     03 FILL1.  
004300     05 KEY1.  
004400         10 ADST-CD                     PIC XX.  
004500         10 DIST-CD                    PIC XX.  
004600         10 RA-CD                       PIC XX.  
004700         10 PLU-CD                      PIC XX.  
004800     05 ALLOT-NUM                      PIC X(4).  
004900     05 PAST-NUM                        PIC XX.  
005000     03 SWAT.  
005100         05 SWA.  
005200             10 SWA-CD                   PIC X.  
005300             10 SWA-NUM                  PIC XXX.  
005400     05 TRANSECT                       PIC XX.  
005500     03 FILL2.  
005600     05 REC-KEY                         PIC X.  
005700     05 PLANT-CD                        PIC X(7).  
005800     05 SPECIES-TYPE                    PIC X.  
005900     05 FILLER                         PIC X(124).  
006000     05 ADW-PROD-ALL.  
006100         10 ADW-PROD    OCCURS 4 TIMES   PIC 9(5)V9.  
006200     05 RANGE-SITE                      PIC X(11).



```

006300      05  STRATUM                      PIC X(4).
006400      05  COMPARISION-AREA             PIC X.
006500      05  SWA-PERCENT                   PIC 9V99.
006600      05  SWA-PER-R REDEFINES SWA-PERCENT PIC XXX.
006700      05  PLOT-NUM                      PIC 99.
006800      05  PLOT-NUM-R REDEFINES PLOT-NUM PIC XX.
006900  FD  STRAT-FILE
007000      CODE-SET IS GBCD
007100      LABEL RECORDS ARE STANDARD.
007200      01  STRAT-FILE-REC                PIC X(54).
007300  SD  SORT-FILE
007400      CODE-SET IS GBCD.
007500  01  SORT-REC.
007600      05  S-ST-DIST-RA-PLU             PIC X(8).
007700      03  S-KEY1.
007800          10  S-STRATUM                PIC X(4).
007900      05  S-REC-TYPE                   PIC X.
008000      05  S-RANGE-SITE                 PIC X(11).
008100      05  S-COMP-AREA                   PIC X.
008200      03  S-KEY2.
008300      05  S-TYP-CD-HT.
008400          10  S-PLANT-TYPE             PIC X.
008500          10  S-PLANT-CD               PIC X(7).
008600          10  S-HT-CD                   PIC X.
008700      05  S-SWAT.
008800          10  S-SWA                     PIC X(4).
008900          10  S-TRANSECT               PIC XX.
009000      05  S-ADW-PROD                   PIC 9(5)V9.
009100      05  S-SWA-PERCENT                 PIC 9V99.
009200      05  S-ALLOTMENT                  PIC X(4).
009300      05  S-PASTURE                     PIC XX.
009400      05  S-PLOT-NUM                   PIC 99.
009500      05  FILLER                       PIC XXX.
009600  FD  STRAT-AVG-FILE
009700      CODE-SET IS GBCD
009800      LABEL RECORDS ARE STANDARD.
009900  01  STRAT-AVG-REC.
010000      05  OT-ST-DIST-RA-PLU           PIC X(8).
010100      05  OT-STRATUM                   PIC X(4).
010200      05  OT-RANGE-SITE                 PIC X(11).
010300      05  OT-PLANT-TYPE                PIC X.
010400      05  OT-PLANT-CD                  PIC X(7).
010500      05  OT-HT-CD                     PIC X.
010600      05  OT-STRAT-AVG                 PIC 9(5)V9(5).
010700      05  OT-SWA                       PIC X(4).
010800      05  OT-SWA-PERCENT               PIC 9V99.
010900      05  OT-ALLOTMENT                 PIC X(4).
011000      05  OT-PAST                      PIC XX.
011100      05  OT-COMP-AREA                 PIC X.
011200      05  FILLER                      PIC X(4).
011300  FD  PRINT-FILE
011400      CODE-SET IS GBCD
011500      LABEL RECORDS ARE STANDARD.
011600  01  REPORT-LINE                      PIC X(132).
011700  WORKING-STORAGE SECTION.
011800  77  FIRST-TIME                       PIC X    VALUE "1".
011900  77  BAR-SWA-W2    PIC XXXX    VALUE SPACE.

```

```

012000 77 BAR-SWA-SAR PIC XXXX VALUE SPACE.
012100 77 BAR-STRATUM PIC XXXX VALUE SPACE.
012200 77 BAR-SWA PIC X(6) VALUE SPACE.
012300 77 BAR-SWA-SFR PIC XXXX VALUE SPACE.
012400 77 BAR-PLANT-CD PIC X(7) VALUE SPACE.
012500 77 BAR-CNT1 PIC 9(8) VALUE ZERO.
012600 77 BAR-CNT2 PIC 9(8) VALUE ZERO.
012700 77 SWAT-HLD PIC X(06) VALUE SPACE.
012800 77 FIRST-COMP PIC X VALUE "N".
012900 77 C-TEST PIC X VALUE SPACE.
013000 77 W3-TOTAL-SPECIES PIC 9(5)V9(5) VALUE ZEROES.
013100 77 ONE-REC PIC X VALUE SPACE.
013200 77 HOLD-PLOT-TOT PIC 9(4) VALUE ZEROES.
013300 77 PLOT-TOT PIC 9(4) VALUE ZEROES.
013400 77 SPECIES-AVG PIC 9(5)V9(5) VALUE ZEROES.
013500 77 WORK-STRAT-AVG PIC 9(5)V9(5) VALUE ZEROES.
013600 77 TEMP-STRAT-AVG PIC 9(5)V9(5) VALUE ZEROES.
013700 77 TYPE-AVG PIC 9(5)V9(5) VALUE ZEROES.
013800 77 X PIC 9 VALUE ZERO.
013900 77 ZERO-PLOT-NUM PIC 999 VALUE ZEROES.
014000 77 PRINT-SW PIC 9 VALUE 1.
014100 77 HDR-SW PIC 9 VALUE 1.
014200 77 INPUT-COUNT PIC 9(8) VALUE ZERO.
014300 77 ZEROE-STRATUM PIC 9(8) VALUE ZEROES.
014400 77 OUTPUT-COUNT PIC 9(8) VALUE ZERO.
014500 77 SORT-INPUT PIC 9(8) VALUE ZERO.
014600 77 SUB PIC 9 VALUE ZERO.
014700 77 GRASS-SW PIC 9 VALUE ZERO.
014800 77 FORBS-SW PIC 9 VALUE ZERO.
014900 77 SHRUB-SW PIC 9 VALUE ZERO.
015000 77 LINE-COUNT PIC 99 VALUE 52.
015100 77 PAGE-COUNT PIC 9(5) VALUE 0.
015200 77 SORT-EOF PIC X VALUE SPACE.
015300 77 TOT-SWA-PERCENT PIC 9V99 VALUE ZEROES.
015400 77 OLD-SWAT PIC X(6) VALUE SPACES.
015500 77 C-COMP-AVG PIC 9(5)V9(5) VALUE ZEROES.
015600 77 C-PROD-HOLD PIC 9(5)V9(5) VALUE ZEROES.
015700 77 C-PLOT-HOLD PIC 999 VALUE ZEROES.
015800 01 FIRST-RETURNED-SW PIC 9 VALUE 1.
015900 88 FIRST-RETURNED VALUE IS 1.
016000 01 FILL1.
016100 05 COMP-STRAT-AVG PIC 9(5)V9(5) VALUE ZEROES.
016200 01 LAST-KEY VALUE SPACES.
016300 05 LAST-STRATUM PIC X(4).
016400 05 LAST-SWA PIC X(4).
016500 05 LAST-PL-CD-HT.
016600 10 LAST-PLANT-TYPE PIC X.
016700 10 LAST-PLANT-CD PIC X(7).
016800 10 LAST-HT-CD PIC XX.
016900 01 PROD-TOTALS VALUE ZEROES.
017000 05 TOT-PROD PIC 9(6)V99.
017100 05 TYPE-PROD PIC 9(6)V99.
017200 05 PLANT-PROD PIC 9(6)V99.
017300 05 HT-CD-PROD PIC 9(6)V99.
017400 01 WORK-REC1 VALUE ZEROES.
017500 05 W1-ST-DIST-RA-PLU PIC X(8).
017600 05 W1-STRATUM PIC X(4).

```

017700	05	W1-REC-TYPE	PIC X.
017800	05	W1-PLOT-TOT	PIC 9(4).
017900	05	FILLER	PIC X(43).
018000	01	WORK-REC2.	
018100	05	W2-ST-DIST-RA-PLU	PIC X(8).
018200	05	W2-STRATUM	PIC X(4).
018300	05	W2-REC-TYPE	PIC X.
018400	05	W2-RANGE-SITE	PIC X(11).
018500	05	W2-COMP-AREA	PIC X.
018600	05	W2-PLANT-TYPE	PIC X.
018700	05	W2-PLANT-CD	PIC X(7).
018800	05	W2-HT-CD	PIC X.
018900	05	W2-SWAT.	
019000	10	W2-SWA	PIC X(4).
019100	10	W2-TRANSECT	PIC XX.
019200	05	W2-ADW-PROD	PIC 9(5)V9.
019300	05	W2-SWA-PERCENT	PIC 9V99.
019400	05	W2-ALLOTMENT	PIC X(4).
019500	05	W2-PASTURE	PIC XX.
019600	05	W2-PLOT-NUM	PIC 99.
019700	05	FILLER	PIC XXX.
019800	01	WORK-RECORD VALUE SPACES.	
019900	03	WORK-REC3.	
020000	05	W3-ADMIN-UNIT	PIC X(8).
020100	05	W3-RANGE-SITE	PIC X(11).
020200	05	W3-STRATUM	PIC X(4).
020300	05	W3-PLANT-CD	PIC X(7).
020400	05	W3-STRAT-AVG-NON	PIC 9(5)V9(5).
020500	05	W3-SWA	PIC X(4).
020600	05	W3-STRAT-AVG-COMP	PIC 9(5)V9(5).
020700	03	W3-DIVISOR	PIC 999.
020800	01	WORK-REC4 VALUE SPACES.	
020900	05	W4-ADMIN-UNIT	PIC X(8).
021000	05	W4-RANGE-SITE	PIC X(11).
021100	05	W4-STRATUM	PIC X(4).
021200	05	W4-PLANT-CD	PIC X(7).
021300	03	W4-SPECIES-AVG	PIC 9(5)V9(5).
021400	03	W4-SWA	PIC X(4).
021500	03	FILLER	PIC X(22).
021600	01	CURRENT-DATE.	
021700	05	CURRENT-YEAR	PIC XX.
021800	05	CURRENT-MONTH	PIC XX.
021900	05	CURRENT-DAY	PIC XX.
022000	01	NOT-AVAIL-CD.	
022100	05	FILLER	PIC X(13) VALUE
022200		"NOT AVAILABLE".	
022300	05	FILLER	PIC X(19) VALUE SPACES.
022400	01	UPDATE-KEY.	
022500	05	ST-DIST-RA-PLU-KEY.	
022600	10	ADST-KEY	PIC XX.
022700	10	DIST-KEY	PIC XX.
022800	10	RA-KEY	PIC XX.
022900	10	PLU-KEY	PIC XX.
023000	05	SWA-KEY	PIC X(4).
023100	05	TRN-KEY	PIC XX.
023200	01	HOLD-REC.	
023300	05	HOLD-ST-DIST-RA-PLU	PIC X(8) VALUE SPACES.

023400	05	HOLD-STRATUM	PIC X(4)	VALUE SPACES.
023500	05	HOLD-PLANT-TYPE	PIC X	VALUE SPACES.
023600	05	HOLD-PLANT-CD	PIC X(7)	VALUE SPACES.
023700	05	FILLER	PIC X(4)	VALUE SPACES.
023800	01	NEW-KEY.		
023900	05	NEW-STRATUM	PIC X(4).	
024000	05	NEW-SWA	PIC X(4).	
024100	05	NEW-TYP-PL-CD.		
024200	10	NEW-PLANT-TYPE	PIC X.	
024300	10	NEW-PLANT-CD	PIC X(7).	
024400	10	NEW-HT-CD	PIC XX.	
024500	01	TEST-KEY	VALUE SPACES.	
024600	05	TEST-KEY1.		
024700	10	TEST-STRATUM	PIC X(4).	
024800	05	TEST-KEY2.		
024900	10	TEST-PLANT-TYPE	PIC X.	
025000	10	TEST-PLANT-CD	PIC X(7).	
025100	10	TEST-HT-CD	PIC XX.	
025200	01	HOLD-AREA.		
025300	03	ADST-DIST-RA-PLU-CDS-H.		
025400	05	ADST-CD-H	PIC XX.	
025500	05	DIST-CD-H	PIC XX.	
025600	05	RA-CD-H	PIC XX.	
025700	05	PLU-CD-H	PIC XX.	
025800	03	DE-CD-EXPLN-8827-DECE-H.		
025900	05	DIST-NAM-H	PIC X(12).	
026000	05	RA-NAM-H	PIC X(13).	
026100	05	PLU-NAM-H	PIC X(15).	
026200	03	DE-CD-NAM-8823-DEC-H.		
026300	05	ST-NAM-H	PIC X(10).	
026400	05	FILLER	PIC X(14).	
026500	01	PAG-HDR-1.		
026600	03	FILLER	PIC X(13)	VALUE "REPORT DATE: ".
026700	03	HEADER-DATE.		
026800	05	MO-HDR	PIC 99.	
026900	05	FILLER	PIC X	VALUE "/".
027000	05	DA-HDR	PIC 99.	
027100	05	FILLER	PIC X	VALUE "/".
027200	05	YR-HDR	PIC 99.	
027300	03	FILLER	PIC X(28)	VALUE SPACES.
027400	03	FILLER	PIC X(23)	VALUE "U.S.D.I. BUREAU OF LAND".
027500	03	FILLER	PIC X(11)	VALUE " MANAGEMENT".
027600	03	FILLER	PIC X(22)	VALUE SPACES.
027700	03	FILLER	PIC X(15)	VALUE "PCN: P070 ".
027800	03	FILLER	PIC X(6)	VALUE " PAGE ".
027900	03	PAGE-NO	PIC ZZ,ZZ9.	
028000	01	PAG-HDR-3.		
028100	03	FILLER	PIC X(20)	VALUE " STATE ".
028200	03	STATE-NAME	PIC X(10).	
028300	03	FILLER	PIC X(24)	VALUE SPACES.
028400	03	FILLER	PIC X(21)	VALUE "ECOLOGICAL SITE INVEN".
028500	03	FILLER	PIC X(04)	VALUE "TORY".
028600	03	FILLER	PIC X(53)	VALUE SPACES.
028700	01	PAG-HDR-4.		
028800	03	FILLER	PIC X(20)	VALUE " DISTRICT ".
028900	03	DIST-NAME	PIC X(12).	
029000	03	FILLER	PIC X(100)	VALUE SPACES.

029100	01	PAG-HDR-5.		
029200	03	FILLER	PIC X(20) VALUE "	RESOURCE AREA "
029300	03	RA-NAME	PIC X(13).	
029400	03	FILLER	PIC X(16) VALUE SPACES.	
029500	03	FILLER	PIC X(16) VALUE "AVERAGE AIR DRY "	
029600	03	FILLER	PIC X(10) VALUE "PRODUCTION".	
029700	03	FILLER	PIC X(57) VALUE SPACES.	
029800	01	PAG-HDR-6.		
029900	03	FILLER	PIC X(20) VALUE "	PLANNING UNIT "
030000	03	PLU-NAME	PIC X(15).	
030100	03	FILLER	PIC X(22) VALUE SPACES.	
030200	03	FILLER	PIC X(10) VALUE "(LBS/ACRE)".	
030300	03	FILLER	PIC X(65) VALUE SPACES.	
030400	01	HEADING-LINE7.		
030500	05	FILLER	PIC X(20) VALUE "	RANGE SITE "
030600	05	HDR-RANG-SITE	PIC X(11) VALUE SPACES.	
030700	05	FILLER	PIC X(105) VALUE SPACES.	
030800	01	HEADING-LINE8.		
030900	05	FILLER	PIC X(4) VALUE SPACES.	
031000	05	COMPARE-AREA	PIC X(16) VALUE "COMPARISON AREA "	
031100	05	COMP-VALUE	PIC X(4) VALUE SPACES.	
031200	05	FILLER	PIC X(35) VALUE SPACES.	
031300	03	FILLER	PIC X(8) VALUE "STRATUM "	
031400	03	STRATUM-NAME	PIC X(4).	
031500	03	FILLER	PIC X(61) VALUE SPACES.	
031600	01	HEADING-LINE9.		
031700	03	FILLER	PIC X(39) VALUE SPACES.	
031800	03	FILLER	PIC X(5) VALUE "PLANT".	
031900	03	FILLER	PIC X(16) VALUE SPACES.	
032000	03	FILLER	PIC X(6) VALUE "HEIGHT".	
032100	03	FILLER	PIC X(11) VALUE SPACES.	
032200	03	FILLER	PIC X(7) VALUE "STRATUM".	
032300	03	FILLER	PIC X(47) VALUE SPACES.	
032400	01	HEADING-LINE10.		
032500	03	FILLER	PIC X(39) VALUE SPACES.	
032600	03	FILLER	PIC X(6) VALUE "SYMBOL".	
032700	03	FILLER	PIC X(16) VALUE SPACES.	
032800	03	FILLER	PIC X(4) VALUE "CODE".	
032900	03	FILLER	PIC X(12) VALUE SPACES.	
033000	03	FILLER	PIC X(7) VALUE "AVERAGE".	
033100	03	FILLER	PIC X(48) VALUE SPACES.	
033200	01	HEADING-LINE-GRASSES.		
033300	03	FILLER	PIC X(39) VALUE SPACES.	
033400	03	FILLER	PIC X(6) VALUE "GRASS:".	
033500	03	FILLER	PIC X(87) VALUE SPACES.	
033600	01	HEADING-LINE-FORBS.		
033700	03	FILLER	PIC X(39) VALUE SPACES.	
033800	03	FILLER	PIC X(6) VALUE "FORBS:".	
033900	03	FILLER	PIC X(87) VALUE SPACES.	
034000	01	HEADING-LINE-SHRUBS.		
034100	03	FILLER	PIC X(39) VALUE SPACES.	
034200	03	FILLER	PIC X(8) VALUE "SHRUBS &".	
034300	03	FILLER	PIC X(85) VALUE SPACES.	
034400	01	HEADING-LINE-TREES.		
034500	03	FILLER	PIC X(39) VALUE SPACES.	
034600	03	FILLER	PIC X(6) VALUE "TREES:".	
034700	03	FILLER	PIC X(87) VALUE SPACES.	

```

034800 01  TOTAL-LINE.
034900      05  FILLER          PIC X(39) VALUE SPACES.
035000      05  TOT-TYPE      PIC X(8)  VALUE SPACES.
035100      05  FILLER          PIC X(5)  VALUE "TOTAL".
035200      05  FILLER          PIC X(26) VALUE SPACES.
035300      05  T-STRAT-AVG    PIC ZZZZZ.9.
035400      05  FILLER          PIC X(46) VALUE SPACES.
035500 01  BARREN-LINE.
035600      03  FILLER    PIC X(20) VALUE "*** BARREN STRATUM ***".
035700      03  FILLER    PIC X(112) VALUE SPACE.
035800 01  DATA-LINE-1.
035900      03  FILLER          PIC X(40) VALUE SPACES.
036000      03  P-PLANT-SYM    PIC X(7).
036100      03  FILLER          PIC X(16) VALUE SPACES.
036200      03  P-HT-CD        PIC X.
036300      03  FILLER          PIC X(14) VALUE SPACES.
036400      03  P-STRAT-AVG    PIC ZZZZZ.9.
036500      03  FILLER          PIC X(46) VALUE SPACES.
036600 01  CURRENT-STRAT-SWA.
036700      05  CURRENT-STRAT PIC X(4).
036800      05  CURRENT-SWA   PIC X(4).
036900 01  SWA-TABLE VALUE ZEROES.
037000      03  SWATBL OCCURS 50 TIMES ASCENDING KEY IS STRAT-SWA-KEY
037100          INDEXED BY INDEX1.
037200          05  STRAT-SWA-KEY.
037300          10  TBL-STRAT    PIC X(4).
037400          10  TBL-SWA     PIC X(4).
037500          05  TBL-PERCENT PIC 9V99.
037600          05  FILLER     PIC X(4).
037700  PROCEDURE DIVISION.
037800 000-START SECTION.
037900 000-START-PARA.
038000      PERFORM 900-HOUSEKEEPING.
038100 001-SORT SECTION.
038200 005-SORT-PARA.
038300      SORT SORT-FILE
038400          ASCENDING S-ST-DIST-RA-PLU S-STRATUM S-PLANT-TYPE
038500          S-PLANT-CD S-HT-CD S-REC-TYPE S-SWA S-TRANSECT
038600      INPUT  PROCEDURE IS 100-INPUT
038700      OUTPUT PROCEDURE IS 200-REPORT.
038800      STOP RUN.
038900 100-INPUT SECTION.
039000 110-MAINLINE.
039100 115-READ-SPEC-SUM.
039200      READ SPEC-SUM-FILE
039300          AT END
039400          PERFORM 130-RELEASE THRU 199-EXIT
039500          CLOSE SPEC-SUM-FILE
039600          GO TO 199-EXIT-SECTION.
039700      IF PLOT-NUM-R NOT NUMERIC
039800          DISPLAY KEY1 PLOT-NUM-R
039900          GO TO 115-READ-SPEC-SUM.
040000      IF SWA-PER-R NOT NUMERIC
040100          DISPLAY KEY1 SWA-PER-R
040200          GO TO 115-READ-SPEC-SUM.
040300      IF SWA-PERCENT EQUALS ZEROES
040400          DISPLAY KEY1 SWA-PERCENT

```

```

040500         GO TO 115-READ-SPEC-SUM.
040600     ADD 1 TO INPUT-COUNT.
040700     IF REC-KEY NOT EQUAL "8"
040800         GO TO 115-READ-SPEC-SUM.
040900     IF STRATUM EQUALS ZEROES OR SPACES
041000         ADD 1 TO ZEROE-STRATUM
041100         GO TO 115-READ-SPEC-SUM.
041200*     IF (STRATUM = "0012")
041300*         NEXT SENTENCE ELSE
041400*         GO TO 115-READ-SPEC-SUM.
041500     IF (PLANT-CD = "BARREN ")
041600         AND ((BAR-STRATUM = STRATUM) AND
041700             (BAR-SWA = SWA))
041800         GO TO 115-READ-SPEC-SUM.
041900     IF (PLANT-CD = "BARREN ")
042000         MOVE STRATUM TO BAR-STRATUM
042100         MOVE SWA TO BAR-SWA
042200         ADD 1 TO BAR-CNT1
042300             PERFORM 120-CREATE-SORT-FILE THRU 129-EXIT VARYING
042400                 SUB FROM 1 BY 1 UNTIL SUB GREATER THAN 1
042500                 GO TO 118-PASS.
042600     PERFORM 120-CREATE-SORT-FILE THRU 129-EXIT VARYING
042700         SUB FROM 1 BY 1 UNTIL SUB GREATER THAN 4.
042800 118-PASS.
042900     IF STRATUM NOT = W1-STRATUM
043000         PERFORM 130-RELEASE THRU 199-EXIT.
043100     IF SWAT EQUALS SWAT-HLD
043200         GO TO 115-READ-SPEC-SUM.
043300     MOVE SWAT TO SWAT-HLD.
043400     ADD PLOT-NUM TO W1-PLOT-TOT.
043500     GO TO 115-READ-SPEC-SUM.
043600 120-CREATE-SORT-FILE.
043700 121-MOVE.
043800     IF (PLANT-CD NOT = "BARREN ")
043900         AND (ADW-PROD (SUB) EQUALS ZEROES)
044000         GO TO 129-EXIT.
044100     MOVE KEY1 TO W2-ST-DIST-RA-PLU.
044200     MOVE STRATUM TO W2-STRATUM.
044300     MOVE RANGE-SITE TO W2-RANGE-SITE.
044400     MOVE COMPARISION-AREA TO W2-COMP-AREA.
044500     MOVE SPECIES-TYPE TO W2-PLANT-TYPE.
044600     MOVE PLANT-CD TO W2-PLANT-CD.
044700     MOVE SUB TO W2-HT-CD.
044800     MOVE SWA TO W2-SWA.
044900     MOVE TRANSECT TO W2-TRANSECT.
045000     MOVE ADW-PROD (SUB) TO W2-ADW-PROD.
045100     MOVE SWA-PERCENT TO W2-SWA-PERCENT.
045200     MOVE ALLOT-NUM TO W2-ALLOTMENT.
045300     MOVE PAST-NUM TO W2-PASTURE.
045400     MOVE PLOT-NUM TO W2-PLOT-NUM.
045500     MOVE "2" TO W2-REC-TYPE.
045600     RELEASE SORT-REC FROM WORK-REC2.
045700     IF W2-PLANT-CD = "BARREN "
045800         GO TO 129-EXIT.
045900     MOVE "3" TO W2-REC-TYPE.
046000     RELEASE SORT-REC FROM WORK-REC2.
046100     ADD 2 TO SORT-INPUT.

```

```

046200 129-EXIT.
046300     EXIT.
046400 130-RELEASE.
046500     IF W1-STRATUM EQUALS ZEROES
046600         MOVE STRATUM TO W1-STRATUM
046700         MOVE SWAT TO SWAT-HLD
046800         MOVE KEY1 TO W1-ST-DIST-RA-PLU
046900         MOVE PLOT-NUM TO W1-PLOT-TOT
047000         MOVE "1" TO W1-REC-TYPE
047100         GO TO 199-EXIT.
047200     RELEASE SORT-REC FROM WORK-REC1.
047300     ADD 1 TO SORT-INPUT.
047400     MOVE KEY1 TO W1-ST-DIST-RA-PLU.
047500     MOVE STRATUM TO W1-STRATUM.
047600     MOVE SWAT TO SWAT-HLD.
047700     MOVE PLOT-NUM TO W1-PLOT-TOT.
047800 199-EXIT.
047900     EXIT.
048000 199-EXIT-SECTION.
048100     EXIT.
048200 200-REPORT SECTION.
048300 200-REPORT-PARA.
048400     OPEN OUTPUT STRAT-AVG-FILE.
048500     OPEN OUTPUT STRAT-FILE.
048600     OPEN OUTPUT PRINT-FILE.
048700 201-RETURN-FIRST.
048800     PERFORM 400-RETURN-SORT THRU 419-EXIT.
048900     IF SORT-EOF EQUALS HIGH-VALUES
049000         DISPLAY "NO RECORDS ON SORT FILE"
049100         STOP RUN.
049200     MOVE S-SWA TO CURRENT-SWA.
049300     MOVE S-SWA-PERCENT TO TOT-SWA-PERCENT.
049400     MOVE S-STRATUM TO CURRENT-STRAT, LAST-STRATUM.
049500     MOVE S-TYP-CD-HT TO LAST-PL-CD-HT.
049600     PERFORM 500-SUM-PROD THRU 599-EXIT.
049700     MOVE SORT-REC TO WORK-REC2.
049800 210-MAINLINE.
049900     READY.
050000     IF DB-STATUS = ZERO
050100         NEXT SENTENCE
050200     ELSE
050300         DISPLAY "DB NOT READY CANNOT PROCEED. RUN STOPPED."
050400         STOP RUN.
050500     MOVE SORT-REC TO WORK-REC2.
050600 220-MAINLINE.
050700     IF SORT-EOF EQUALS HIGH-VALUES
050800         GO TO 999-EOJ.
050900     IF S-PLANT-CD = "BARREN "
051000         INITIALIZE WORK-RECORD STRAT-AVG-REC
051100         MOVE S-ST-DIST-RA-PLU TO OT-ST-DIST-RA-PLU
051200         MOVE S-STRATUM TO OT-STRATUM
051300         MOVE S-RANGE-SITE TO OT-RANGE-SITE
051400         MOVE S-PLANT-TYPE TO OT-PLANT-TYPE
051500         MOVE S-PLANT-CD TO OT-PLANT-CD
051600         MOVE S-SWA TO OT-SWA
051700         MOVE S-ALLOTMENT TO OT-ALLOTMENT
051800         MOVE S-PASTURE TO OT-PAST

```



```

051900      MOVE S-COMP-AREA TO OT-COMP-AREA
052000*     DISPLAY "SAR= " STRAT-AVG-REC
052100      WRITE STRAT-AVG-REC
052200      MOVE S-ST-DIST-RA-PLU TO W3-ADMIN-UNIT
052300      MOVE S-STRATUM TO W3-STRATUM
052400      MOVE S-PLANT-CD TO W3-PLANT-CD
052500      MOVE S-RANGE-SITE TO W3-RANGE-SITE
052600*     DISPLAY "SFR= " WORK-REC3
052700      WRITE STRAT-FILE-REC FROM WORK-REC3.
052800      PERFORM 400-RETURN-SORT THRU 419-EXIT.
052900      IF FIRST-TIME GREATER THAN ZERO
053000          AND S-REC-TYPE EQUALS "3"
053100          MOVE ZERO TO FIRST-TIME
053200          PERFORM 340-MOVE-IT THRU 399-EXIT
053300          PERFORM 890-VALIDATE-STATE THRU 898-EXIT
053400          MOVE W2-ADW-PROD TO TYPE-PROD PLANT-PROD
053500              HT-CD-PROD
053600          GO TO 220-MAINLINE.
053700      IF S-REC-TYPE NOT EQUAL "2"
053800          GO TO 221-MAINLINE.
053900      IF FIRST-TIME EQUALS "1"
054000          MOVE "2" TO FIRST-TIME
054100          PERFORM 340-MOVE-IT THRU 399-EXIT
054200          PERFORM 500-SUM-PROD THRU 599-EXIT
054300          GO TO 220-MAINLINE.
054400      IF S-STRATUM NOT EQUAL W2-STRATUM
054500          PERFORM 310-SPECIES-BREAK THRU 399-EXIT
054600          PERFORM 320-PLANT-TYPE-BREAK THRU 399-EXIT
054700          PERFORM 360-WRITE-PRMFL THRU 399-EXIT
054800          PERFORM 340-MOVE-IT THRU 399-EXIT
054900          PERFORM 500-SUM-PROD THRU 599-EXIT
055000          MOVE S-PLANT-CD TO BAR-PLANT-CD
055100          MOVE ZEROES TO HT-CD-PROD
055200          PERFORM 890-VALIDATE-STATE THRU 898-EXIT
055300          PERFORM 800-NEW-PAGE-HEADING THRU 849-EXIT
055400          GO TO 220-MAINLINE.
055500      IF S-PLANT-CD = "BARREN "
055600          GO TO 221-MAINLINE.
055700      IF S-PLANT-CD EQUALS W2-PLANT-CD
055800          AND S-HT-CD EQUALS W2-HT-CD
055900          PERFORM 500-SUM-PROD THRU 599-EXIT
056000          GO TO 220-MAINLINE.
056100      IF S-PLANT-TYPE NOT EQUAL W2-PLANT-TYPE
056200          PERFORM 310-SPECIES-BREAK THRU 399-EXIT
056300          PERFORM 320-PLANT-TYPE-BREAK THRU 399-EXIT
056400          PERFORM 360-WRITE-PRMFL THRU 399-EXIT
056500          PERFORM 340-MOVE-IT THRU 399-EXIT
056600          PERFORM 500-SUM-PROD THRU 599-EXIT
056700          MOVE ZEROES TO HT-CD-PROD
056800          GO TO 220-MAINLINE.
056900      IF S-PLANT-CD NOT EQUAL W2-PLANT-CD
057000          PERFORM 310-SPECIES-BREAK THRU 399-EXIT
057100          PERFORM 360-WRITE-PRMFL THRU 399-EXIT
057200          PERFORM 340-MOVE-IT THRU 399-EXIT
057300          PERFORM 500-SUM-PROD THRU 599-EXIT
057400          MOVE ZEROES TO HT-CD-PROD
057500          GO TO 220-MAINLINE.

```

```

057600     IF S-HT-CD NOT EQUAL W2-HT-CD
057700         PERFORM 350-HT-CD-BREAK THRU 359-EXIT
057800         PERFORM 360-WRITE-PRMFL THRU 399-EXIT
057900         PERFORM 340-MOVE-IT THRU 399-EXIT
058000         PERFORM 500-SUM-PROD THRU 599-EXIT
058100         GO TO 220-MAINLINE.
058200     PERFORM 500-SUM-PROD THRU 599-EXIT.
058300     GO TO 220-MAINLINE.
058400 221-MAINLINE.
058500     IF SORT-EOF EQUALS HIGH-VALUES
058600         GO TO 230-MAINLINE.
058700     IF NEW-KEY EQUALS LAST-KEY
058800         ADD S-ADW-PROD TO TYPE-PROD, HT-CD-PROD,
058900             PLANT-PROD
059000         GO TO 220-MAINLINE.
059100     IF S-ST-DIST-RA-PLU EQUALS HOLD-ST-DIST-RA-PLU
059200         AND S-STRATUM EQUALS HOLD-STRATUM
059300         NEXT SENTENCE
059400     ELSE
059500         PERFORM 890-VALIDATE-STATE THRU 899-EXIT
059600         PERFORM 800-NEW-PAGE-HEADING THRU 849-EXIT.
059700 230-MAINLINE.
059800     IF NEW-STRATUM GREATER THAN W2-STRATUM
059900         PERFORM 310-SPECIES-BREAK THRU 399-EXIT
060000         PERFORM 320-PLANT-TYPE-BREAK THRU 399-EXIT
060100         PERFORM 360-WRITE-PRMFL THRU 399-EXIT
060200         PERFORM 340-MOVE-IT THRU 399-EXIT
060300         MOVE W2-ADW-PROD TO TYPE-PROD,
060400             HT-CD-PROD, PLANT-PROD
060500         GO TO 220-MAINLINE.
060600     IF NEW-PLANT-TYPE NOT EQUAL W2-PLANT-TYPE
060700         PERFORM 310-SPECIES-BREAK THRU 399-EXIT
060800         PERFORM 320-PLANT-TYPE-BREAK THRU 399-EXIT
060900         PERFORM 360-WRITE-PRMFL THRU 399-EXIT
061000         PERFORM 340-MOVE-IT THRU 399-EXIT
061100         MOVE W2-ADW-PROD TO TYPE-PROD, PLANT-PROD, HT-CD-PROD
061200         MOVE 1 TO HDR-SW
061300         GO TO 220-MAINLINE.
061400     IF NEW-PLANT-CD NOT EQUAL W2-PLANT-CD
061500         PERFORM 310-SPECIES-BREAK THRU 399-EXIT
061600         PERFORM 360-WRITE-PRMFL THRU 399-EXIT
061700         PERFORM 340-MOVE-IT THRU 399-EXIT
061800         MOVE W2-ADW-PROD TO PLANT-PROD, HT-CD-PROD
061900         GO TO 220-MAINLINE.
062000     IF NEW-HT-CD NOT EQUAL W2-HT-CD
062100         PERFORM 350-HT-CD-BREAK THRU 359-EXIT
062200         PERFORM 360-WRITE-PRMFL THRU 399-EXIT
062300         PERFORM 340-MOVE-IT THRU 399-EXIT
062400         MOVE W2-ADW-PROD TO HT-CD-PROD
062500         GO TO 220-MAINLINE.
062600     GO TO 220-MAINLINE.
062700 310-SPECIES-BREAK.
062800     PERFORM 350-HT-CD-BREAK THRU 359-EXIT.
062900*     DISPLAY "**** " TOT-PROD " " W2-PLOT-NUM " " W1-PLOT-TOT.
063000     IF SPECIES-AVG EQUALS COMP-STRAT-AVG
063100         GO TO 312-ADD-TO-TYPE.
063200     MOVE SPECIES-AVG TO T-STRAT-AVG.

```

```

063300     MOVE W2-PLANT-CD TO TOT-TYPE.
063400     IF PAGE-COUNT = 1
063500         DISPLAY SPACES
063600         DISPLAY TOTAL-LINE.
063700     WRITE REPORT-LINE FROM TOTAL-LINE AFTER 2 LINES.
063800     MOVE SPACES TO REPORT-LINE.
063900     IF PAGE-COUNT = 1
064000         DISPLAY SPACES.
064100     WRITE REPORT-LINE.
064200     ADD 3 TO LINE-COUNT.
064300     IF LINE-COUNT GREATER 51
064400         PERFORM 800-NEW-PAGE-HEADING THRU 849-EXIT
064500         ADD 2 TO LINE-COUNT.
064600 312-ADD-TO-TYPE.
064700     PERFORM 370-WRITE-STRAT-FILE THRU 379-EXIT.
064800     ADD SPECIES-AVG TO TYPE-AVG.
064900     MOVE ZEROES TO SPECIES-AVG.
065000     GO TO 399-EXIT.
065100 320-PLANT-TYPE-BREAK.
065200     ADD 3 TO PRINT-SW.
065300     PERFORM 850-REPORT THRU 899-EXIT.
065400     MOVE 1 TO HDR-SW.
065500     GO TO 399-EXIT.
065600 340-MOVE-IT.
065700     MOVE SORT-REC TO WORK-REC2.
065800     MOVE W2-SWA TO CURRENT-SWA, LAST-SWA.
065900     MOVE W2-STRATUM TO CURRENT-STRAT, LAST-STRATUM.
066000     MOVE W2-PLANT-TYPE TO LAST-PLANT-TYPE.
066100     MOVE W2-PLANT-CD TO LAST-PLANT-CD.
066200     MOVE W2-HT-CD TO LAST-HT-CD.
066300     GO TO 399-EXIT.
066400 350-HT-CD-BREAK.
066500     MOVE W2-PLANT-TYPE TO PRINT-SW.
066600     IF ONE-REC EQUALS "1"
066700         MOVE SPACE TO ONE-REC
066800         MOVE HOLD-PLOT-TOT TO PLOT-TOT
066900         ELSE MOVE W1-PLOT-TOT TO PLOT-TOT.
067000*     DISPLAY "TOT " TOT-PROD " W2-PLOT-NUM " W2-PLOT-NUM
067100*         " W1-PLOT " W1-PLOT-TOT " PLOT-TOT " PLOT-TOT.
067200     COMPUTE COMP-STRAT-AVG ROUNDED EQUALS
067300         TOT-PROD / PLOT-TOT.
067400     ADD COMP-STRAT-AVG TO SPECIES-AVG.
067500     MOVE COMP-STRAT-AVG TO P-STRAT-AVG OT-STRAT-AVG.
067600     MOVE ZEROES TO TOT-PROD.
067700     MOVE W2-PLANT-CD TO P-PLANT-SYM.
067800     MOVE W2-HT-CD TO P-HT-CD.
067900     PERFORM 850-REPORT THRU 899-EXIT.
068000 359-EXIT.
068100     EXIT.
068200 360-WRITE-PRMFL.
068300     MOVE W2-SWA-PERCENT TO OT-SWA-PERCENT.
068400     MOVE W2-ST-DIST-RA-PLU TO OT-ST-DIST-RA-PLU.
068500     MOVE W2-STRATUM TO OT-STRATUM.
068600     MOVE W2-RANGE-SITE TO OT-RANGE-SITE.
068700     MOVE W2-PLANT-TYPE TO OT-PLANT-TYPE.
068800     MOVE W2-PLANT-CD TO OT-PLANT-CD.
068900     MOVE W2-HT-CD TO OT-HT-CD.

```

```

069000     MOVE W2-SWA TO OT-SWA.
069100     MOVE W2-ALLOTMENT TO OT-ALLOTMENT.
069200     MOVE W2-PASTURE TO OT-PAST.
069300     MOVE W2-COMP-AREA TO OT-COMP-AREA.
069400     IF OT-PLANT-CD NOT = "BARREN "
069500         WRITE STRAT-AVG-REC.
069600     ADD 1 TO OUTPUT-COUNT.
069700     GO TO 399-EXIT.
069800 370-WRITE-STRAT-FILE.
069900     IF W2-COMP-AREA EQUAL "C"
070000         MOVE W2-SWA TO W3-SWA
070100     ELSE MOVE SPACE TO W3-SWA.
070200     IF (FIRST-COMP EQUALS "N" AND
070300         W3-SWA NOT EQUAL SPACES)
070400         MOVE SPACE TO FIRST-COMP
070500         MOVE W2-ST-DIST-RA-PLU TO W4-ADMIN-UNIT
070600         MOVE W2-RANGE-SITE TO W4-RANGE-SITE
070700         MOVE W2-STRATUM TO W4-STRATUM
070800         MOVE W2-SWA TO W4-SWA
070900         MOVE SPECIES-AVG TO W4-SPECIES-AVG
071000         GO TO 372-WRITE.
071100     IF W3-SWA EQUALS W4-SWA
071200         ADD SPECIES-AVG TO W4-SPECIES-AVG
071300         GO TO 372-WRITE.
071400     IF W4-PLANT-CD NOT = "BARREN "
071500         WRITE STRAT-FILE-REC FROM WORK-REC4
071600         MOVE SPECIES-AVG TO W4-SPECIES-AVG
071700         MOVE W2-ST-DIST-RA-PLU TO W4-ADMIN-UNIT
071800         MOVE W2-RANGE-SITE TO W4-RANGE-SITE
071900         MOVE W2-STRATUM TO W4-STRATUM
072000         MOVE W3-SWA TO W4-SWA.
072100 372-WRITE.
072200     MOVE W2-ST-DIST-RA-PLU TO W3-ADMIN-UNIT.
072300     MOVE W2-STRATUM TO W3-STRATUM.
072400     MOVE W2-PLANT-CD TO W3-PLANT-CD.
072500     MOVE SPECIES-AVG TO W3-STRAT-AVG-NON.
072600     MOVE W2-RANGE-SITE TO W3-RANGE-SITE.
072700     MOVE ZEROES TO W3-STRAT-AVG-COMP.
072800     ADD SPECIES-AVG TO W3-TOTAL-SPECIES.
072900     IF W3-PLANT-CD NOT = "BARREN "
073000*         DISPLAY "SFR= " WORK-REC3
073100     WRITE STRAT-FILE-REC FROM WORK-REC3.
073200 378-CLEAR.
073300     MOVE SPACE TO C-TEST.
073400 379-EXIT.
073500     EXIT.
073600 399-EXIT.
073700     EXIT.
073800 400-RETURN-SORT.
073900     RETURN SORT-FILE
074000         AT END
074100         MOVE HIGH-VALUES TO SORT-EOF, NEW-STRATUM
074200         GO TO 419-EXIT.
074300*     DISPLAY "SR= " SORT-REC.
074400     IF S-PLANT-CD = "BARREN "
074500         ADD 1 TO BAR-CNT2.
074600     IF FIRST-RETURNED AND S-REC-TYPE EQUAL "1"

```

```

074700         MOVE SORT-REC TO WORK-REC1
074800         MOVE ZERO TO FIRST-RETURNED-SW.
074900         IF S-REC-TYPE EQUALS "1"
075000             MOVE "1" TO ONE-REC
075100             MOVE W1-PLOT-TOT TO HOLD-PLOT-TOT
075200             MOVE SORT-REC TO WORK-REC1
075300             GO TO 400-RETURN-SORT.
075400         IF S-REC-TYPE EQUALS "2"
075500             AND S-COMP-AREA EQUALS "C"
075600             MOVE "C" TO C-TEST
075700             ADD S-ADW-PROD TO C-PROD-HOLD
075800             ADD S-PLOT-NUM TO C-PLOT-HOLD.
075900         MOVE S-STRATUM TO NEW-STRATUM.
076000         MOVE S-TYP-CD-HT TO NEW-TYP-PL-CD.
076100         MOVE S-SWA TO NEW-SWA.
076200 419-EXIT.
076300         EXIT.
076400 500-SUM-PROD.
076500         IF S-PLANT-CD = "BARREN "
076600             GO TO 599-EXIT.
076700         MULTIPLY S-ADW-PROD BY S-PLOT-NUM
076800             GIVING TEMP-STRAT-AVG.
076900         ADD TEMP-STRAT-AVG TO TOT-PROD.
077000 599-EXIT.
077100         EXIT.
077200 800-NEW-PAGE-HEADING.
077300         ADD 1 TO PAGE-COUNT.
077400         MOVE PAGE-COUNT TO PAGE-NO.
077500         IF PAGE-COUNT = 1
077600             DISPLAY PAG-HDR-1
077700             DISPLAY PAG-HDR-3
077800             DISPLAY PAG-HDR-4
077900             DISPLAY PAG-HDR-5
078000             DISPLAY PAG-HDR-6.
078100         WRITE REPORT-LINE FROM PAG-HDR-1 AFTER ADVANCING PAGE.
078200         WRITE REPORT-LINE FROM PAG-HDR-3 AFTER ADVANCING 1 LINE.
078300         WRITE REPORT-LINE FROM PAG-HDR-4 AFTER ADVANCING 1 LINE.
078400         WRITE REPORT-LINE FROM PAG-HDR-5 AFTER ADVANCING 1 LINE.
078500         WRITE REPORT-LINE FROM PAG-HDR-6 AFTER ADVANCING 1 LINE.
078600         MOVE W2-RANGE-SITE TO HDR-RANG-SITE.
078700         IF PAGE-COUNT = 1
078800             DISPLAY HEADING-LINE7.
078900         WRITE REPORT-LINE FROM HEADING-LINE7 AFTER ADVANCING 1 LINE.
079000         IF W2-COMP-AREA EQUALS "C"
079100             MOVE "COMPARISON AREA " TO COMPARE-AREA
079200             MOVE W2-SWA TO COMP-VALUE
079300             ELSE MOVE SPACES TO COMPARE-AREA COMP-VALUE.
079400         IF PAGE-COUNT = 1
079500             DISPLAY HEADING-LINE8
079600             DISPLAY HEADING-LINE9
079700             DISPLAY HEADING-LINE10.
079800         WRITE REPORT-LINE FROM HEADING-LINE8 AFTER ADVANCING 1 LINE.
079900         IF BAR-PLANT-CD = "BARREN "
080000             WRITE REPORT-LINE FROM BARREN-LINE AFTER 2 LINES
080100             MOVE 10 TO LINE-COUNT MOVE 1 TO HDR-SW
080200             GO TO 849-EXIT.
080300         WRITE REPORT-LINE FROM HEADING-LINE9 AFTER ADVANCING 2 LINES.

```

```

080400     WRITE REPORT-LINE FROM HEADING-LINE10 AFTER ADVANCING 1 LINE.
080500     MOVE 10 TO LINE-COUNT.
080600     MOVE 1 TO HDR-SW.
080700 849-EXIT.
080800     EXIT.
080900 850-REPORT.
081000     IF LINE-COUNT GREATER 51
081100         PERFORM 800-NEW-PAGE-HEADING THRU 849-EXIT.
081200     GO TO
081300         851-GRASS-REPORT
081400         852-FORBS-REPORT
081500         853-SHRUBS-REPORT
081600         854-GRASS-TOTAL
081700         855-FORBS-TOTAL
081800         851-SHRUBS-TOTAL
081900         DEPENDING ON PRINT-SW.
082000 851-GRASS-REPORT.
082100     IF HDR-SW LESS THAN 1
082200         MOVE 1 TO X
082300         GO TO 851-PRINT.
082400     MOVE 2 TO X.
082500     IF PAGE-COUNT = 1
082600         DISPLAY SPACES
082700         DISPLAY HEADING-LINE-GRASSES.
082800     WRITE REPORT-LINE FROM HEADING-LINE-GRASSES
082900         AFTER ADVANCING 2.
083000     ADD 2 TO LINE-COUNT.
083100 851-PRINT.
083200     IF PAGE-COUNT = 1
083300         DISPLAY DATA-LINE-1.
083400     WRITE REPORT-LINE FROM DATA-LINE-1 AFTER ADVANCING X.
083500     ADD X TO LINE-COUNT.
083600     GO TO 898-EXIT.
083700 852-FORBS-REPORT.
083800     IF HDR-SW LESS THAN 1
083900         MOVE 1 TO X
084000         GO TO 852-PRINT.
084100     MOVE 2 TO X.
084200     IF PAGE-COUNT = 1
084300         DISPLAY SPACES
084400         DISPLAY HEADING-LINE-FORBS.
084500     WRITE REPORT-LINE FROM HEADING-LINE-FORBS
084600         AFTER ADVANCING 2.
084700     ADD 2 TO LINE-COUNT.
084800 852-PRINT.
084900     IF PAGE-COUNT = 1
085000         DISPLAY DATA-LINE-1.
085100     WRITE REPORT-LINE FROM DATA-LINE-1 AFTER ADVANCING X.
085200     ADD X TO LINE-COUNT.
085300     GO TO 898-EXIT.
085400 853-SHRUBS-REPORT.
085500     IF HDR-SW LESS THAN 1
085600         MOVE 1 TO X
085700         GO TO 853-PRINT.
085800     MOVE 2 TO X.
085900     IF PAGE-COUNT = 1
086000         DISPLAY SPACES

```

```

086100         DISPLAY HEADING-LINE-SHRUBS.
086200     WRITE REPORT-LINE FROM HEADING-LINE-SHRUBS
086300         AFTER ADVANCING 2.
086400     IF PAGE-COUNT = 1
086500         DISPLAY HEADING-LINE-TREES.
086600     WRITE REPORT-LINE FROM HEADING-LINE-TREES
086700         AFTER ADVANCING 1.
086800     ADD 4 TO LINE-COUNT.
086900 853-PRINT.
087000     IF PAGE-COUNT = 1
087100         DISPLAY DATA-LINE-1.
087200     WRITE REPORT-LINE FROM DATA-LINE-1 AFTER ADVANCING X.
087300     ADD X TO LINE-COUNT.
087400     GO TO 898-EXIT.
087500 854-GRASS-TOTAL.
087600     MOVE "GRASS " TO TOT-TYPE.
087700     GO TO 857-TOTAL-PRINT.
087800 855-FORBS-TOTAL.
087900     MOVE "FORBS " TO TOT-TYPE.
088000     GO TO 857-TOTAL-PRINT.
088100 851-SHRUBS-TOTAL.
088200     IF PAGE-COUNT = 1
088300         DISPLAY SPACES
088400         DISPLAY HEADING-LINE-SHRUBS.
088500     WRITE REPORT-LINE FROM HEADING-LINE-SHRUBS
088600         AFTER ADVANCING 2 LINES.
088700     ADD 2 TO LINE-COUNT.
088800     MOVE "TREES " TO TOT-TYPE.
088900     GO TO 857-TOTAL-PRINT.
089000 857-TOTAL-PRINT.
089100     MOVE TYPE-AVG TO T-STRAT-AVG.
089200     IF W2-PLANT-TYPE EQUALS "3"
089300         MOVE 1 TO X
089400     ELSE MOVE 2 TO X.
089500     IF PAGE-COUNT = 1
089600         DISPLAY TOTAL-LINE.
089700     IF W2-PLANT-CD NOT = "BARREN "
089800     WRITE REPORT-LINE FROM TOTAL-LINE AFTER ADVANCING X LINES.
089900     ADD X TO LINE-COUNT.
090000     MOVE ZEROES TO TYPE-AVG.
090100     GO TO 898-EXIT.
090200 890-VALIDATE-STATE.
090300     MOVE 0003 TO DE-NO-8801-DEC.
090400     MOVE S-STRATUM TO STRATUM-NAME, HOLD-STRATUM.
090500     MOVE S-ST-DIST-RA-PLU TO DE-CD-8822-DEC, HOLD-ST-DIST-RA-PLU.
090600     FIND ANY CODE-DEC.
090700     IF DB-STATUS NOT = ZERO
090800         DISPLAY "BAD STATE CODE ", DE-CD-8822-DEC
090900         CALL "ABOR".
091000     GET CODE-DEC.
091100     MOVE DE-CD-NAM-8823-DEC TO DE-CD-NAM-8823-DEC-H.
091200     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
091300     IF DB-STATUS NOT = ZERO
091400         DISPLAY "BAD DIST, RA, PLU CODES ", DE-CD-8822-DEC
091500         CALL "ABOR".
091600     GET CODE-EXPL-DECE.
091700     MOVE DE-CD-EXPLN-8827-DECE TO DE-CD-EXPLN-8827-DECE-H.

```

```

091800      MOVE ST-NAM-H TO STATE-NAME.
091900      MOVE RA-NAM-H TO RA-NAME.
092000      MOVE DIST-NAM-H TO DIST-NAME.
092100      MOVE PLU-NAM-H TO PLU-NAME.
092200 898-EXIT.
092300      MOVE ZERO TO HDR-SW.
092400 899-EXIT.
092500      EXIT.
092600 900-HOUSEKEEPING.
092700      OPEN INPUT SPEC-SUM-FILE.
092800      ACCEPT CURRENT-DATE FROM DATE.
092900      MOVE CURRENT-YEAR TO YR-HDR.
093000      MOVE CURRENT-MONTH TO MO-HDR.
093100      MOVE CURRENT-DAY TO DA-HDR.
093200      MOVE ZEROES TO W3-STRAT-AVG-NON, W3-STRAT-AVG-COMP.
093300 900-EXIT.
093400      EXIT.
093500 999-EOJ.
093600      IF W4-PLANT-CD NOT = "BARREN "
093700          WRITE STRAT-FILE-REC FROM WORK-REC4.
093800      DISPLAY "INPUT COUNT ", INPUT-COUNT.
093900      DISPLAY "ZERO STRATUM ", ZEROE-STRATUM.
094000      DISPLAY "INPUT TO SORT ", SORT-INPUT.
094100      DISPLAY "RECORDS WRITTEN ", OUTPUT-COUNT.
094200      DISPLAY "ZERO PLOT NO.  ", ZERO-PLOT-NUM.
094300      DISPLAY "PAGES PRINTED= " PAGE-COUNT.
094400      DISPLAY "BAR-CNT1= " BAR-CNT1.
094500      DISPLAY "BAR-CNT2= " BAR-CNT2.
094600      FINISH.
094700      CLOSE STRAT-AVG-FILE PRINT-FILE STRAT-FILE.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES615M.
000300*      BUILD A SPECIES SUMMARY FILE WITH LIKE PLANTS BY SWAT
000400*      WITHIN THE STRATUM.
000500*
000600 AUTHOR. RON BAKER.
000700 INSTALLATION. USBLM.
000800 DATE-WRITTEN. NOVEMBER 28, 1979.
000900 DATE-COMPILED.
001000 ENVIRONMENT DIVISION.
001100 CONFIGURATION SECTION.
001200 SOURCE-COMPUTER. LEVEL-66-ASCII.
001300 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001400 INPUT-OUTPUT SECTION.
001500 FILE-CONTROL.
001600      SELECT FILE-D1
001700          ASSIGN TO D1
001800          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
001900          ACCESS IS SEQUENTIAL.
002000      SELECT FILE-D2
002100          ASSIGN TO D2
002200          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002300          ACCESS IS SEQUENTIAL.
002400      SELECT FILE-D3
002500          ASSIGN TO D3
002600          ORGANIZATION IS GFRC SEQUENTIAL WITH SSF

```



002700 ACCESS IS SEQUENTIAL.  
002800 DATA DIVISION.  
002900 SUB-SCHEMA SECTION.  
003000 DB CODVAL2 WITHIN BLMDIC.  
003100 FILE SECTION.  
003200 FD FILE-D1  
003300 CODE-SET IS GBCD  
003400 LABEL RECORDS ARE STANDARD  
003500 DATA RECORD IS REC-D1.  
003600 01 REC-D1.  
003700 03 SDRP-D1.  
003800 05 ST-D1 PIC XX.  
003900 05 DIS-D1 PIC 99.  
004000 05 RA-D1 PIC 99.  
004100 05 PLU-D1 PIC 99.  
004200 03 SWAT-D1.  
004300 05 SWA-D1 PIC XXXX.  
004400 05 SWA-TRN-D1 PIC 99.  
004500 03 RANGE-SITE-D1 PIC X(11).  
004600 03 STRATUM-D1 PIC 9(4).  
004700 03 SWA-PERCENT-D1 PIC 999.  
004800 03 ALLOTMENT-PAST-D1.  
004900 05 ALLOTMENT-D1 PIC 9999.  
005000 05 PASTURE-D1 PIC 99.  
005100 03 COMP-AREA-D1 PIC X.  
005200 03 CLIM-ADJ-FCTR-D1 PIC 99V999.  
005300 03 FILLER PIC XXXX.  
005400 FD FILE-D2  
005500 CODE-SET IS GBCD  
005600 LABEL RECORDS ARE STANDARD  
005700 DATA RECORD IS REC-D2.  
005800 01 REC-D2.  
005900 05 SDRP-MK.  
006000 07 SDR-MK.  
006100 09 SD-MK.  
006200 11 ST-MK PIC XX.  
006300 11 DS-MK PIC XX.  
006400 09 RA-MK PIC XX.  
006500 07 PLU-MK PIC XX.  
006600 05 FILLER PIC X(6).  
006700 05 FILLER PIC X(34).  
006800 01 REC-D2-REDEFINED.  
006900 03 SDRP-D2 PIC X(8).  
007000 03 STRATUM-D2 PIC 9999.  
007100 03 RANGE-SITE-D2 PIC X(11).  
007200 03 PLANT-TYP-D2 PIC 9.  
007300 03 PLANT-CD-D2 PIC X(7).  
007400 03 HT-CD-D2 PIC 9.  
007500 03 STRAT-AVG-D2 PIC 9(5)V9(5).  
007600 03 FILL-D2 PIC X(18).  
007700 FD FILE-D3  
007800 CODE-SET IS GBCD  
007900 LABEL RECORDS ARE STANDARD  
008000 DATA RECORD IS REC-D3.  
008100 01 REC-D3.  
008200 03 SDRP-D3.  
008300 05 ST-D3 PIC XX.

008400 05 DIS-D3 PIC 99.  
008500 05 RA-D3 PIC 99.  
008600 05 PLU-D3 PIC 99.  
008700 03 STRATUM-D3 PIC 9(4).  
008800 03 RANGE-SITE-D3 PIC X(11).  
008900 03 GRP-D3.  
009000 05 PLANT-TYP-D3 PIC 9.  
009100 05 PLANT-CD-D3 PIC X(7).  
009200 05 HT-CD-D3 PIC 9.  
009300 05 STRAT-AVG-D3 PIC 9(5)V9(5).  
009400 03 SWA-D3 PIC XXXX.  
009500 03 SWA-PERCENT-D3 PIC 999.  
009600 03 ALLOTMENT-PAST-D3.  
009700 05 ALLOTMENT-D3 PIC 9999.  
009800 05 PASTURE-D3 PIC 99.  
009900 03 COMP-AREA-D3 PIC X.  
010000 03 FILL-D3 PIC XXXX.  
010100 WORKING-STORAGE SECTION.  
010200 77 SWA-PREV PIC XXXX.  
010300 77 BAR-CNT PIC 9(8) VALUE ZERO.  
010400 77 CNTRL-PREV PIC X(12) VALUE SPACE.  
010500 77 END-SW-D1 PIC 9 VALUE ZERO.  
010600 77 END-SW-D2 PIC 9 VALUE ZERO.  
010700 77 RETURN-COUNT PIC 9(8) VALUE ZERO.  
010800 77 FIRST-SW PIC 9 VALUE 1.  
010900 77 HOLD-ST-DIST-RA-PLU-2 PIC X(8) VALUE SPACES.  
011000 77 HOLD-STRATUM-2 PIC 9(4) VALUE ZERO.  
011100 77 RNG-SITE-P-HLD PIC X(11) VALUE ZERO.  
011200 77 STRATUM-P-HLD PIC 9999 VALUE ZERO.  
011300 77 UNK-COUNT PIC 9(8) VALUE ZERO.  
011400 77 MASTER-COUNT PIC 9(8) VALUE ZERO.  
011500 77 UPDATE-COUNT PIC 9(8) VALUE ZERO.  
011600 77 SORT-COUNT PIC 9(8) VALUE ZERO.  
011700 77 ZERO-CNT PIC 9(2) VALUE ZERO.  
011800 77 CNT1 PIC 9(5) VALUE ZERO.  
011900 77 PLOTS-CHRZ-CNT PIC 9(2) VALUE ZERO.  
012000 77 PLOTS-CHRZ-CNT-HLD PIC 9(2) VALUE ZERO.  
012100 77 DISPLAY-COUNT PIC 9(8) VALUE ZERO.  
012200 77 PLANT-TYP-COUNT PIC 9(8) VALUE ZERO.  
012300 77 MASTER-EOF-SW PIC 9 VALUE ZERO.  
012400 77 UNK-SW PIC 9 VALUE ZERO.  
012500 77 UPDATE-EOF-SW PIC 9 VALUE ZERO.  
012600 77 HLD-DENS PIC 9(6) VALUE ZERO.  
012700 77 GRASS-SW PIC 9 VALUE ZERO.  
012800 77 FORBS-SW PIC 9 VALUE ZERO.  
012900 77 HLD-SWAT PIC X(6) VALUE SPACE.  
013000 77 SHRUB-SW PIC 9 VALUE ZERO.  
013100 77 LINE-COUNT PIC 99 VALUE ZERO.  
013200 77 PAGE-COUNT PIC 9(4) VALUE ZERO.  
013300 77 STRAT-CNT PIC 999 VALUE ZERO.  
013400 77 WS-HGT-PLANT-TOT PIC 9(10)V9 VALUE ZERO.  
013500 77 WS-CRN-PLANT-TOT PIC 9(10)V9 VALUE ZERO.  
013600 77 WS-AVAIL-PLANT-TOT PIC 9(10) VALUE ZERO.  
013700 77 HLD-SUB PIC 9999 VALUE ZERO.  
013800 77 HLD-SUB2 PIC 9999 VALUE ZERO.  
013900 77 STRAT-SUB PIC 9999 VALUE ZERO.  
014000 77 SUB PIC 9999 VALUE ZERO.

014100 77 SUB-FC PIC 9999 VALUE ZERO.  
014200 77 SUB-AC PIC 9999 VALUE ZERO.  
014300 01 REC-D1-HLD.  
014400 03 SDRP-D1-HLD.  
014500 05 ST-D1-HLD PIC XX.  
014600 05 DIS-D1-HLD PIC 99.  
014700 05 RA-D1-HLD PIC 99.  
014800 05 PLU-D1-HLD PIC 99.  
014900 03 SWAT-D1-HLD.  
015000 05 SWA-D1-HLD PIC XXXX.  
015100 05 SWA-TRN-D1-HLD PIC 99.  
015200 03 RANGE-SITE-D1-HLD PIC X(11).  
015300 03 STRATUM-D1-HLD PIC 9(4).  
015400 03 SWA-PERCENT-D1-HLD PIC 999.  
015500 03 ALLOTMENT-PAST-D1-HLD.  
015600 05 ALLOTMENT-D1-HLD PIC 9999.  
015700 05 PASTURE-D1-HLD PIC 99.  
015800 03 COMP-AREA-D1-HLD PIC X.  
015900 03 CLIM-ADJ-FCTR-D1-HLD PIC 99V999.  
016000 03 FILLER PIC XXXX.  
016100 01 CNTRL-D1.  
016200 03 SDRP-C-D1 PIC X(8).  
016300 03 STRATUM-C-D1 PIC 9999.  
016400 01 CNTRL-D2.  
016500 03 SDRP-C-D2 PIC X(8).  
016600 03 STRATUM-C-D2 PIC 9999.  
016700 01 STRATUM-TABLE.  
016800 03 STRATUM-TAB OCCURS 2000 TIMES.  
016900 05 GRP-STAB.  
017000 07 PLANT-TYP-STAB PIC 9.  
017100 07 PLANT-CD-STAB PIC X(7).  
017200 07 HT-CD-STAB PIC 9.  
017300 07 STRAT-AVG-STAB PIC 9(5)V9(5).  
017400 01 CURRENT-DATE.  
017500 05 CURRENT-YEAR PIC XX.  
017600 05 CURRENT-MONTH PIC XX.  
017700 05 CURRENT-DAY PIC XX.  
017800 01 DISP-MSG.  
017900 05 DISP-MSG-1 PIC X(33) VALUE  
018000 "NO VB STRATUM RECORD FOR THE FOLL".  
018100 05 DISP-MSG-2 PIC X(34) VALUE  
018200 "OWING ST,DIST,RA,PLU,SWA,TRANSECT".  
018300 01 COMP-KEYS.  
018400 03 SDRP-KEY.  
018500 05 ST-KEY PIC XX.  
018600 05 DIS-KEY PIC XX.  
018700 05 RA-KEY PIC XX.  
018800 05 PLU-KEY PIC XX.  
018900 03 STRATUM-KEY PIC 9999.  
019000 03 SWAT-KEY.  
019100 05 SWA-KEY PIC X(4).  
019200 05 SWAT-TRN-KEY PIC XX.  
019300 01 HOLD-REC.  
019400 05 HOLD-ST-DIST-RA-PLU PIC X(8) VALUE SPACES.  
019500 05 HOLD-STRATUM PIC 9(4) VALUE ZERO.  
019600 05 HOLD-PLANT-TYP PIC X VALUE SPACES.  
019700 05 HOLD-PLANT-CD PIC X(7) VALUE SPACES.

```

019800      05  FILLER                                PIC X(85) VALUE SPACES.
019900      05  HOLD-WTD-AVE-AVAIL                    PIC 9(3) VALUE ZEROES.
020000      05  FILLER                                PIC X(5) VALUE SPACES.
020100      05  HOLD-COMPARISON-AREA                  PIC X(4) VALUE SPACES.
020200      05  HOLD-RANGE-SITE                       PIC X(11) VALUE SPACES.
020300      05  FILLER                                PIC X(10) VALUE SPACES.
020400 01  HOLD-AREA.
020500      03  SDRP-H.
020600          05  ST-H      PIC XX.
020700          05  DIS-H     PIC 99.
020800          05  RA-H     PIC 99.
020900          05  PLU-H    PIC 99.
021000      03  DE-CD-EXPLN-8827-DECE-H.
021100          05  DIST-NAM-H PIC X(12).
021200          05  RA-NAM-H  PIC X(13).
021300          05  PLU-NAM-H PIC X(15).
021400      03  DE-CD-NAM-8823-DEC-H.
021500          05  ST-NAM-H  PIC X(10).
021600          05  FILLER   PIC X(14).
021700 01  PAG-HDR-1.
021800      03  FILLER      PIC X(4)  VALUE SPACES.
021900      03  FILLER      PIC X(13) VALUE "REPORT DATE  ".
022000      03  HEADER-DATE.
022100          05  MO-HDR   PIC 99.
022200          05  FILLER   PIC X    VALUE "/".
022300          05  DA-HDR   PIC 99.
022400          05  FILLER   PIC X    VALUE "/".
022500          05  YR-HDR   PIC 99.
022600      03  FILLER      PIC X(21) VALUE SPACES.
022700      03  FILLER      PIC X(21) VALUE "UNITED STATES DEPARTM".
022800      03  FILLER      PIC X(21) VALUE "ENT OF THE INTERIOR  ".
022900      03  FILLER      PIC X(21) VALUE SPACES.
023000      03  FILLER      PIC X(10) VALUE " PAGE NO  ".
023100      03  PAGE-NO     PIC ZZZ9.
023200      03  FILLER      PIC X(9)  VALUE SPACES.
023300 01  PAG-HDR-2.
023400      03  FILLER      PIC X(30) VALUE SPACES.
023500      03  FILLER      PIC X(21) VALUE "PCN: ES615M          ".
023600      03  FILLER      PIC X(21) VALUE " BUREAU OF LAND MANA".
023700      03  FILLER      PIC X(21) VALUE "GEMENT              ".
023800      03  FILLER      PIC X(39) VALUE SPACES.
023900 01  CNT-LINE.
024000      03  FILLER      PIC X(11) VALUE "THERE WERE ".
024100      03  CNT1-Z     PIC ZZ,ZZ9.
024200      03  FILLER      PIC X(18) VALUE " RECORDS UNMATCHED.".
024300 01  P-SPACE      PIC X(132)  VALUE SPACE.
024400  PROCEDURE DIVISION.
024500 100-OPEN.
024600      DISPLAY "THE FOLLOWING RECORDS CONTAINED ON THE ES530MD1 ".
024700      DISPLAY "  FILE DO NOT MATCH THE ES610PD1 FILE ON STATE, ".
024800      DISPLAY "  DIST, RA, PLU AND STRATUM.                          ".
024900      DISPLAY P-SPACE.
025000      ACCEPT CURRENT-DATE FROM DATE.
025100      MOVE CURRENT-YEAR TO YR-HDR.
025200      MOVE CURRENT-MONTH TO MO-HDR.
025300      MOVE CURRENT-DAY TO DA-HDR.
025400      OPEN INPUT FILE-D1 FILE-D2.

```

```

025500     READY DIC-DE.
025600     OPEN OUTPUT FILE-D3.
025700 200-READ-D1.
025800     READ FILE-D1
025900         AT END MOVE 1 TO END-SW-D1
026000         GO TO 200-EXIT.
026100*    DISPLAY "D1= " REC-D1.
026200     MOVE REC-D1 TO REC-D1-HLD.
026300     MOVE STRATUM-D1 TO STRATUM-C-D1.
026400     MOVE SDRP-D1 TO SDRP-C-D1.
026500 200-EXIT.
026600     EXIT.
026700 300-READ-D2.
026800     READ FILE-D2
026900         AT END MOVE 1 TO END-SW-D2
027000         GO TO 300-EXIT.
027100     MOVE SPACE TO FILL-D2.
027200*    DISPLAY "D2= " REC-D2.
027300     MOVE SDRP-D2 TO SDRP-C-D2.
027400     MOVE STRATUM-D2 TO STRATUM-C-D2.
027500 300-EXIT.
027600     EXIT.
027700 400-CONTROLS.
027800     IF END-SW-D1 = 1
027900         GO TO 900-EOJ.
028000     IF END-SW-D2 = 1
028100         GO TO 900-EOJ.
028200     IF CNTRL-D1 = CNTRL-D2
028300         GO TO 500-LOAD-TABLE.
028400     IF CNTRL-D1 > CNTRL-D2
028500         GO TO 300-READ-D2.
028600     ADD 1 TO CNT1.
028700*    DISPLAY REC-D1.
028800     PERFORM 200-READ-D1 THRU 200-EXIT.
028900     GO TO 400-CONTROLS.
029000 500-LOAD-TABLE.
029100     INITIALIZE STRATUM-TABLE.
029200     MOVE ZERO TO SUB.
029300 510-LOAD.
029400*    IF PLANT-CD-D2 = "BARREN "
029500*        ADD 1 TO BAR-CNT
029600*        GO TO 512-PASS.
029700     ADD 1 TO SUB.
029800     IF SUB > 2000 DISPLAY "BAD SUB 1"
029900         CNTRL-D1 CNTRL-D2 PLANT-CD-D2
030000     STOP RUN.
030100     MOVE PLANT-TYP-D2 TO PLANT-TYP-STAB (SUB).
030200     MOVE PLANT-CD-D2 TO PLANT-CD-STAB (SUB).
030300     MOVE HT-CD-D2 TO HT-CD-STAB (SUB).
030400     MOVE STRAT-AVG-D2 TO STRAT-AVG-STAB (SUB).
030500 512-PASS.
030600     PERFORM 300-READ-D2 THRU 300-EXIT.
030700     IF END-SW-D2 = 1
030800         GO TO 600-BUILD-OUTPUT.
030900     IF CNTRL-D1 = CNTRL-D2
031000         GO TO 510-LOAD.
031100 600-BUILD-OUTPUT.

```

```

031200     MOVE ZERO TO SUB.
031300 610-LOOP.
031400     ADD 1 TO SUB.
031500     IF SUB > 2000
031600         DISPLAY "BAD SUB " CNTRL-D1 CNTRL-D2
031700         STOP RUN.
031800     IF PLANT-CD-STAB (SUB) = SPACE
031900         GO TO 620-RD-LOOP.
032000     MOVE SPACE TO REC-D3.
032100     IF PLANT-CD-STAB (SUB) = "BARREN "
032200         INITIALIZE REC-D3
032300         MOVE "BARREN " TO PLANT-CD-D3
032400         MOVE SDRP-D1-HLD TO SDRP-D3
032500         MOVE STRATUM-D1-HLD TO STRATUM-D3
032600         MOVE RANGE-SITE-D1-HLD TO RANGE-SITE-D3
032700         MOVE SWA-D1-HLD TO SWA-D3
032800         MOVE SWA-D1-HLD TO SWA-PREV
032900         MOVE CNTRL-D1 TO CNTRL-PREV
033000         MOVE ALLOTMENT-PAST-D1 TO ALLOTMENT-PAST-D3
033100         MOVE " END" TO FILL-D3
033200         MOVE SWA-PERCENT-D1-HLD TO SWA-PERCENT-D3
033300         WRITE REC-D3
033400         GO TO 610-LOOP.
033500     MOVE " END" TO FILL-D3.
033600     MOVE SDRP-D1-HLD TO SDRP-D3.
033700     MOVE STRATUM-D1-HLD TO STRATUM-D3.
033800     MOVE RANGE-SITE-D1-HLD TO RANGE-SITE-D3.
033900     MOVE SWA-D1-HLD TO SWA-D3.
034000     MOVE SWA-D1-HLD TO SWA-PREV.
034100     MOVE CNTRL-D1 TO CNTRL-PREV.
034200     MOVE SWA-PERCENT-D1-HLD TO SWA-PERCENT-D3.
034300     MOVE ALLOTMENT-PAST-D1 TO ALLOTMENT-PAST-D3.
034400     MOVE COMP-AREA-D1-HLD TO COMP-AREA-D3.
034500     MOVE GRP-STAB (SUB) TO GRP-D3.
034600*    DISPLAY "D3= " REC-D3.
034700     WRITE REC-D3.
034800     GO TO 610-LOOP.
034900 620-RD-LOOP.
035000     PERFORM 200-READ-D1 THRU 200-EXIT.
035100     IF END-SW-D1 = 1 GO TO 900-EOJ.
035200     IF CNTRL-D1 = CNTRL-PREV
035300         NEXT SENTENCE ELSE
035400         GO TO 400-CONTROLS.
035500     IF SWA-PREV = SWA-D1
035600         GO TO 620-RD-LOOP.
035700     GO TO 600-BUILD-OUTPUT.
035800 900-EOJ.
035900     MOVE CNT1 TO CNT1-Z.
036000     DISPLAY CNT-LINE.
036100     DISPLAY "EOJ".
036200     CLOSE FILE-D1 FILE-D2 FILE-D3.
036300     FINISH DIC-DE.
036400     IF DB-STATUS NOT = ZERO
036500         DISPLAY "DB CANNOT FINISH STATUS=" DB-STATUS.
036600 999-END.
036700     STOP RUN.
000000*-----

```

000100 IDENTIFICATION DIVISION.  
000200 PROGRAM-ID. ES670M.  
000300\*           CREATES AN INDEXED SEQUENTIAL FILE OF RANGE SITE  
000400\*           POTENTIAL FROM VR1D & VR2D RECORDS.  
000500\*  
000600 AUTHOR. ANITA TURNMIRE.  
000700 ENVIRONMENT DIVISION.  
000800 CONFIGURATION SECTION.  
000900 SOURCE-COMPUTER. LEVEL-66-ASCII.  
001000 OBJECT-COMPUTER. LEVEL-66-ASCII.  
001100 INPUT-OUTPUT SECTION.  
001200 FILE-CONTROL.  
001300       SELECT VR-FILE            ASSIGN TO D1  
001400                    ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
001500       SELECT SORT-FILE         ASSIGN TO S1.  
001600       SELECT RANGE-SITE         ASSIGN TO I1-I2  
001700                    ORGANIZATION IS INDEXED  
001800                    ACCESS MODE IS DYNAMIC  
001900                    RECORD KEY IS PRIMARY-KEY  
002000                    FILE STATUS IS FILE-STATUS.  
002100 DATA DIVISION.  
002200 FILE SECTION.  
002300 SD   SORT-FILE  
002400       DATA RECORD IS SORT-REC.  
002500 01   SORT-REC.  
002600       04   SSRANGE-SITE         PIC X(11).  
002700       04   SSREC-TYP            PIC 9.  
002800       04   SSPLANT-TYP         PIC 9.  
002900       04   SSPLANT-CD          PIC X(7).  
003000       04   SSPOT-LBS-ACRE-AVG   PIC 9(6).  
003100       04   SSPERCENT-COMP       PIC 9(3).  
003200       04   FILLER               PIC X.  
003300 FD   VR-FILE  
003400       LABEL RECORDS ARE STANDARD  
003500       CODE-SET IS GBCD  
003600       DATA RECORD IS VR-REC.  
003700 01   VR-REC.  
003800       04   VREC-CD             PIC X(4).  
003900       04   FILLER               PIC X(15).  
004000       04   VRANGE-SITE         PIC X(11).  
004100       04   VREC-TYP1.  
004200            06   FILLER         PIC X(19).  
004300            06   VPOT-LBS-ACRE-AVG   PIC 9(6).  
004400            06   FILLER         PIC X(41).  
004500       04   VREC-TYP2 REDEFINES VREC-TYP1.  
004600            06   FILLER         PIC X(4).  
004700            06   VPLANT OCCURS 4 TIMES.  
004800                    08   VPLANT-CD   PIC X(7).  
004900                    08   VPCT-COMP   PIC 9(3).  
005000            06   VPLANT-TYP OCCURS 4 TIMES PIC X.  
005100            06   FILLER            PIC X(18).  
005200 FD   RANGE-SITE  
005300       LABEL RECORDS ARE STANDARD  
005400       BLOCK CONTAINS 1790 CHARACTERS  
005500       RECORD CONTAINS 42 CHARACTERS  
005600       DATA RECORD IS RANGE-REC.  
005700 01   RANGE-REC.

```

005800      04  PRIMARY-KEY.
005900          06  RANGE-SITE-OUT  PIC X(11).
006000          06  RECD-CNTR      PIC 9(4).
006100      04  PLANT-TYP          PIC 9.
006200      04  PLANT-CD           PIC X(7).
006300      04  NORM-POT-PERCENT-COMP  PIC 9(3)V99.
006400      04  POT-LBS-ACRE-AVG  PIC 9(6)V9.
006500      04  PCT-COMP          PIC 9(3).
006600      04  FILLER            PIC X(4).
006700  WORKING-STORAGE SECTION.
006800      77  V1IN              PIC 9(4) VALUE ZERO.
006900      77  V2IN              PIC 9(4) VALUE ZERO.
007000      77  RCDS-RELEASED  PIC 9(4) VALUE ZERO.
007100      77  RCDS-RETURNED  PIC 9(4) VALUE ZERO.
007200      77  RCDS-WRITTEN   PIC 9(4) VALUE ZERO.
007300      77  OLD-R-S         PIC X(11).
007400      77  TOT-PCT-COMP   PIC 9(4) VALUE ZERO.
007500      77  PLANT-TOT      PIC 9(4) VALUE ZERO.
007600      77  I               PIC 9 VALUE ZERO.
007700      01  EOF            PIC X(4).
007800          88  DONE        VALUE "DONE".
007900      01  FILE-STATUS.
008000          04  MAJOR-STATUS  PIC X.
008100          04  MINOR-STATUS  PIC X.
008200      01  S-REC.
008300          04  SRANGE-SITE  PIC X(11).
008400          04  SREC-TYP     PIC 9.
008500          04  SPLANT-TYP   PIC 9.
008600          04  SPLANT-CD    PIC X(7).
008700          04  SPOT-LBS-ACRE-AVG  PIC 9(6).
008800          04  SPERCENT-COMP  PIC 9(3).
008900          04  FILLER      PIC X.
009000  PROCEDURE DIVISION.
009100  SORTING SECTION.
009200  100-SORT.
009300      SORT SORT-FILE ON ASCENDING KEY SSRANGE-SITE
009400          SSREC-TYP SSPLANT-TYP SSPLANT-CD
009500          INPUT PROCEDURE IS 200-CREATE-SORT
009600          OUTPUT PROCEDURE IS 300-WRITE-RANGE.
009700      STOP RUN.
009800  200-CREATE-SORT SECTION.
009900  210-CONTROL.
010000      OPEN INPUT VR-FILE.
010100      MOVE SPACE TO EOF.
010200      READ VR-FILE
010300          AT END MOVE "DONE" TO EOF.
010400      PERFORM 220-PROCESS UNTIL DONE.
010500      CLOSE VR-FILE.
010600      GO TO 299-EXIT.
010700  220-PROCESS.
010800      IF VREC-CD = "VR1D"
010900          INITIALIZE S-REC
011000          ADD 1 TO V1IN
011100          MOVE VRANGE-SITE TO SRANGE-SITE
011200          MOVE VPOT-LBS-ACRE-AVG TO SPOT-LBS-ACRE-AVG
011300      ELSE IF VREC-CD = "VR2D"
011400          ADD 1 TO V2IN

```



```

011500         PERFORM 230-MOVE-RELEASE VARYING I FROM 1 BY 1
011600             UNTIL I > 4.
011700         READ VR-FILE
011800             AT END MOVE "DONE" TO EOF.
011900 230-MOVE-RELEASE.
012000         IF VPLANT-TYP (I) = "G"
012100             MOVE 1 TO SPLANT-TYP
012200         ELSE IF VPLANT-TYP (I) = "F"
012300             MOVE 2 TO SPLANT-TYP
012400         ELSE MOVE 3 TO SPLANT-TYP.
012500         IF VPLANT-CD (I) NOT = SPACE
012600             MOVE VPLANT-CD (I) TO SPLANT-CD
012700             MOVE VPCT-COMP (I) TO SPERCENT-COMP
012800             MOVE 1 TO SREC-TYP
012900             RELEASE SORT-REC FROM S-REC
013000             MOVE 2 TO SREC-TYP
013100             RELEASE SORT-REC FROM S-REC
013200             ADD 2 TO RCDS-RELEASED.
013300 299-EXIT.
013400         EXIT.
013500 300-WRITE-RANGE SECTION.
013600 310-CONTROL.
013700         OPEN OUTPUT RANGE-SITE.
013800         MOVE SPACE TO EOF.
013900         MOVE ZERO TO TOT-PCT-COMP.
014000         RETURN SORT-FILE
014100             AT END MOVE "DONE" TO EOF.
014200         ADD 1 TO RCDS-RETURNED.
014300         MOVE SSRANGE-SITE TO OLD-R-S.
014400         PERFORM 320-PROCESS UNTIL DONE.
014500         CLOSE RANGE-SITE.
014600*         DISPLAY "V1 IN =          " V1IN.
014700*         DISPLAY "V2 IN =          " V2IN.
014800         DISPLAY "RCDS RELEASED = " RCDS-RELEASED.
014900         DISPLAY "RCDS RETURNED = " RCDS-RETURNED.
015000         DISPLAY "RCDS WRITTEN  = " RCDS-WRITTEN.
015100         GO TO 399-EXIT.
015200 320-PROCESS.
015300         IF SSRANGE-SITE NOT = OLD-R-S
015400*             DISPLAY "TOT-PCT-COMP = " TOT-PCT-COMP
015500             MOVE SSRANGE-SITE TO OLD-R-S
015600             MOVE ZERO TO TOT-PCT-COMP PLANT-TOT.
015700         IF SSREC-TYP = 1
015800             ADD SSPERCENT-COMP TO TOT-PCT-COMP
015900         ELSE
016000*             DISPLAY "REC-TYP2 = " SORT-REC
016100             COMPUTE NORM-POT-PERCENT-COMP ROUNDED =
016200                 (SSPERCENT-COMP / TOT-PCT-COMP) * 100
016300             ADD 1 TO PLANT-TOT
016400             MOVE PLANT-TOT TO RECD-CNTR
016500             MOVE SSRANGE-SITE TO RANGE-SITE-OUT
016600             MOVE SSPLANT-TYP TO PLANT-TYP
016700             MOVE SSPLANT-CD TO PLANT-CD
016800             MOVE SSPERCENT-COMP TO PCT-COMP
016900             COMPUTE POT-LBS-ACRE-AVG ROUNDED = SSPERCENT-COMP /
017000                 TOT-PCT-COMP * SSPOT-LBS-ACRE-AVG
017100*             DISPLAY "RANGE-REC = " RANGE-REC

```

```

017200      ADD 1 TO RCDS-WRITTEN
017300      WRITE RANGE-REC INVALID KEY
017400          DISPLAY "INVALID KEY " RANGE-REC
017500          DISPLAY "FILE STATUS " FILE-STATUS
017600          STOP RUN.
017700      RETURN SORT-FILE
017800          AT END MOVE "DONE" TO EOF.
017900      IF NOT DONE
018000          ADD 1 TO RCDS-RETURNED.
018100 399-EXIT.
018200      EXIT.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES680P.
000300*      RANGE ECOLOGICAL CONDITION (P11 LIST)
000400*
000500 AUTHOR. ANITA TURNMIRE.
000600*REMARKS.
000700* THIS PROGRAM CALCULATES PERCENT OF POTENTIAL BY PLANT CODE WITH
000800* STRATUM. IT ALSO CALCULATES STRATUM CONDITION CLASS. INPUT IS
000900* /S-DATA/RANGEIND, /S-DATA/RANGEDAT, & /S-DATA/STRATAVG. OUTPUT
001000* IS P110 & /S-DATA/STRTPOT.
001100 ENVIRONMENT DIVISION.
001200 CONFIGURATION SECTION.
001300 SOURCE-COMPUTER. LEVEL-66-ASCII.
001400 OBJECT-COMPUTER. LEVEL-66-ASCII.
001500 INPUT-OUTPUT SECTION.
001600 FILE-CONTROL.
001700     SELECT STRATAVG-FILE          ASSIGN TO D1
001800             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001900     SELECT SORT-FILE             ASSIGN TO S1.
002000     SELECT RANGE-FILE           ASSIGN TO I1-I2
002100             ORGANIZATION IS INDEXED
002200             ACCESS MODE IS DYNAMIC
002300             RECORD KEY IS RPRIMARY-KEY
002400             FILE STATUS IS FILE-STATUS.
002500     SELECT STRTPOT-FILE          ASSIGN TO D2
002600             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002700     SELECT PRINT-FILE            ASSIGN TO P1-PRINTER
002800             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
003000 DATA DIVISION.
003100 SUB-SCHEMA SECTION.
003200 DB CODVAL2 WITHIN BLMDIC.
003300 FILE SECTION.
003400 FD RANGE-FILE
003500     LABEL RECORDS ARE STANDARD
003600     BLOCK CONTAINS 1790 CHARACTERS
003700     RECORD CONTAINS 42 CHARACTERS
003800     DATA RECORD IS RANGE-REC.
003900 01 RANGE-REC.
004000     04 RPRIMARY-KEY.
004100         06 R RANGE-SITE          PIC X(11).
004200         06 RRECD-CNTR           PIC 9(4).
004300     04 RPLANT-TYP              PIC 9.
004400     04 RPLANT-CD               PIC X(7).
004500     04 RNORM-POT-PCT-COMP      PIC 9(3)V99.
004600     04 RPOT-LBS-ACRE-AVG       PIC 9(6)V9.

```

004700 04 RPCT-COMP PIC 9(3).  
004800 04 FILLER PIC X(4).  
004900 FD STRATAVG-FILE  
005000 LABEL RECORDS ARE STANDARD  
005100 CODE-SET IS GBCD  
005200 DATA RECORD IS STRAT-REC.  
005300 01 STRAT-REC.  
005400 04 ST-ST-DIST-RA-PLU PIC X(8).  
005500 04 ST-STRATUM PIC 9(4).  
005600 04 ST-RANGE PIC X(11).  
005700 04 ST-PLANT-TYP PIC 9.  
005800 04 ST-PLANT-CD PIC X(7).  
005900 04 ST-HT-CODE PIC 9.  
006000 04 ST-STRAT-AVG PIC 9(5)V9(5).  
006100 04 ST-SWA PIC X(4).  
006200 04 FILLER PIC X(14).  
006300 FD STRTPOT-FILE  
006400 LABEL RECORDS ARE STANDARD  
006500 CODE-SET IS GBCD  
006600 DATA RECORD IS POT-REC.  
006700 01 POT-REC.  
006800 04 ST-DIST-RA-PLU PIC X(8).  
006900 04 STRATUM PIC 9(4).  
007000 04 RANGE-SITE PIC X(11).  
007100 04 REC-TYP1.  
007200 06 REC-TYP-1 PIC 9.  
007300 06 TOTAL-POT-PROD-PERCENT PIC 9(3).  
007400 06 DUM-ZERO PIC 9(33).  
007500 04 REC-TYP2 REDEFINES REC-TYP1.  
007600 06 REC-TYP-2 PIC 9.  
007700 06 PLANT-TYP PIC 9.  
007800 06 PLANT-CD PIC X(7).  
007900 06 PRESENT-PRODUCTION PIC 9(5)V9(5).  
008000 06 POTENTIAL-PRODUCTION PIC 9(5)V9(5).  
008100 06 POT-COMP-PCT PIC 9(3).  
008200 06 FILLER PIC X(5).  
008300 FD PRINT-FILE  
008400 LABEL RECORDS ARE STANDARD  
008500 CODE-SET IS GBCD  
008600 DATA RECORD IS PREC.  
008700 01 PREC PIC X(132).  
008800 SD SORT-FILE  
008900 DATA RECORD IS SORT-REC.  
009000 01 SORT-REC.  
009100 04 SORT-KEY.  
009200 06 SORT-ST-DIST-RA-PLU PIC X(8).  
009300 06 SORT-RANGE PIC X(11).  
009400 06 SORT-STRATUM PIC 9(4).  
009500 04 SORT-REC-TYP PIC 9.  
009600 04 SORT-PLANT-TYP PIC 9.  
009700 04 SORT-PLANT-CD PIC X(7).  
009800 04 SORT-STRAT-AVG PIC 9(5)V9(5).  
009900 WORKING-STORAGE SECTION.  
010000 77 RCDS-IN PIC 9(4) VALUE ZERO.  
010100 77 RCDS-RLS PIC 9(4) VALUE ZERO.  
010200 77 RCDS-RETURN PIC 9(4) VALUE ZERO.  
010300 77 RCDS-RTN PIC 9(4) VALUE ZERO.

010400 77 TOT-STRAT-AVG PIC 9(9)V9(5) VALUE ZERO.  
010500 77 LCNTR PIC 9(2) VALUE ZERO.  
010600 77 PNO PIC 9(5) VALUE ZERO.  
010700 77 HOLD-PCT-STRAT PIC 9(3) VALUE ZERO.  
010800 77 HOLD-PCT-POT PIC 9(3) VALUE ZERO.  
010900 77 TOT-PCT PIC 9(3) VALUE ZERO.  
011000 77 OLD-SWA PIC X(4) VALUE SPACE.  
011100 01 PLANT-COMPARES.  
011200 03 RS-PC.  
011300 06 RS-TYP PIC 9.  
011400 06 RS-PLNT PIC X(7).  
011500 03 STR-PC.  
011600 06 STR-TYP PIC 9.  
011700 06 STR-PLNT PIC X(7).  
011800 01 EOF PIC X(4).  
011900 88 DONE VALUE "DONE".  
012000 01 FILE-STATUS.  
012100 04 MAJOR-STATUS PIC X.  
012200 04 MINOR-STATUS PIC X.  
012300 01 S-REC.  
012400 04 SO-KEY.  
012500 06 S-KEY PIC X(8).  
012600 06 S-RS PIC X(11).  
012700 06 S-STRT PIC 9(4).  
012800 04 S-RC-TYP PIC 9.  
012900 04 S-PLNT-TYP PIC 9.  
013000 04 S-PLNT-CD PIC X(7).  
013100 04 S-STRTAVG PIC 9(5)V9(5).  
013200 01 OLD-RS-STRAT.  
013300 02 OLD-ST-RS-STR.  
013400 04 OLD-ST-DIST-RA-PLU PIC X(8).  
013500 04 OLD-RS PIC X(11).  
013600 04 OLD-STRAT PIC 9(4).  
013700 02 OLD-PLANT PIC X(7).  
013800 02 OLD-TYP PIC 9.  
013900 01 COMPARE-RS-STRAT.  
014000 04 COMPARE-ST-DIST-RA-PLU PIC X(8).  
014100 04 COMPARE-RS PIC X(11).  
014200 04 COMPARE-STRAT PIC 9(4).  
014300 04 COMPARE-PLANT PIC X(7).  
014400 04 COMPARE-TYP PIC 9.  
014500 01 PLANT-TYP-TABL.  
014600 02 PTYP.  
014700 04 FILLER PIC X(8) VALUE "GRASSES:".  
014800 04 FILLER PIC X(8) VALUE "FORBES: ".  
014900 04 FILLER PIC X(8) VALUE "SHRUBS &".  
015000 04 FILLER PIC X(8) VALUE "TREES: ".  
015100 02 PLNT-TYP REDEFINES PTYP OCCURS 4 TIMES PIC X(8).  
015200  
015300 01 TYP-LINE.  
015400 04 FILLER PIC X(14) VALUE SPACE.  
015500 04 TYP PIC X(8).  
015600 04 FILLER PIC X(110) VALUE SPACE.  
015700 01 HEADING-LINE-7.  
015800 03 FILLER PIC X(34) VALUE SPACES.  
015900 03 FILLER PIC X(10) VALUE "RANGE SITE".  
016000 03 FILLER PIC X(2) VALUE SPACES.

016100 03 RANGE-SITE-P PIC X(11).  
016200 03 FILLER PIC X(20) VALUE SPACES.  
016300 03 FILLER PIC X(8) VALUE "STRATUM".  
016400 03 STRATUM-NO PIC 9(4).  
016500 03 FILLER PIC X(43) VALUE SPACES.  
016600 01 HEADING-LINE-9.  
016700 04 FILLER PIC X(14) VALUE SPACE.  
016800 04 FILLER PIC X(37) VALUE  
016900 "PLANT POTENTIAL MAX".  
017000 04 FILLER PIC X(42) VALUE  
017100 "NORMALIZED PRESENT PRESENT".  
017200 04 FILLER PIC X(20) VALUE SPACE.  
017300 04 FILLER PIC X(3) VALUE "ADJ".  
017400 04 FILLER PIC X(16) VALUE SPACE.  
017500 01 HEADING-LINE-10.  
017600 04 FILLER PIC X(14) VALUE SPACE.  
017700 04 FILLER PIC X(46) VALUE  
017800 "SYMBOL PRODUCTION PERCENT PERCENT".  
017900 04 FILLER PIC X(13) VALUE SPACE.  
018000 04 FILLER PIC X(20) VALUE  
018100 "PRODUCTION PERCENT".  
018200 04 FILLER PIC X(18) VALUE SPACE.  
018300 04 FILLER PIC X(7) VALUE "PERCENT".  
018400 04 FILLER PIC X(14) VALUE SPACE.  
018500 01 HEADING-LINE-11.  
018600 04 FILLER PIC X(29) VALUE SPACE.  
018700 04 FILLER PIC X(29) VALUE  
018800 "LBS/ACRE COMP COMP".  
018900 04 FILLER PIC X(16) VALUE SPACE.  
019000 04 FILLER PIC X(18) VALUE  
019100 "LBS/ACRE COMP".  
019200 04 FILLER PIC X(21) VALUE SPACE.  
019300 04 FILLER PIC X(4) VALUE "COMP".  
019400 04 FILLER PIC X(15) VALUE SPACE.  
019500 01 CONDITION-CLASS-LINE.  
019600 03 FILLER PIC X(14) VALUE SPACES.  
019700 03 FILLER PIC X(22) VALUE "CONDITION CLASS FOR ST".  
019800 03 FILLER PIC X(6) VALUE "RATUM".  
019900 03 STRATUM-NUM PIC 9999.  
020000 03 FILLER PIC XXX VALUE " - ".  
020100 03 COND-CLASS PIC X(9).  
020200 03 FILLER PIC X(56) VALUE SPACES.  
020300 03 FILLER PIC X(12) VALUE "1 - 25 POOR".  
020400 03 FILLER PIC X(4) VALUE SPACES.  
020500 01 PERCENT-LINE-2.  
020600 03 FILLER PIC X(113) VALUE SPACES.  
020700 03 FILLER PIC X(13) VALUE "26 - 50 FAIR".  
020800 03 FILLER PIC X(6) VALUE SPACES.  
020900 01 PERCENT-LINE-3.  
021000 03 FILLER PIC X(113) VALUE SPACES.  
021100 03 FILLER PIC X(13) VALUE "51 - 75 GOOD".  
021200 03 FILLER PIC X(6) VALUE SPACES.  
021300 01 PERCENT-LINE-4.  
021400 03 FILLER PIC X(113) VALUE SPACES.  
021500 03 FILLER PIC X(18) VALUE "76 - 100 EXCELLENT".  
021600 01 DATA-LINE.  
021700 03 FILLER PIC X(14) VALUE SPACES.

021800 03 PLANT-SYM-P PIC X(7).  
021900 03 FILLER PIC X(9) VALUE SPACES.  
022000 03 REDEFINED-PART.  
022100 06 POT-PROD-P PIC Z(5).9.  
022200 06 FILLER PIC X(6) VALUE SPACES.  
022300 06 COMP-PCT-1-P PIC ZZ9.  
022400 06 FILLER PIC X(9) VALUE SPACES.  
022500 06 NORM-PCT PIC ZZ9.  
022600 06 FILLER PIC X(17) VALUE SPACES.  
022700 06 PRES-PROD-P PIC Z(5).9.  
022800 06 FILLER PIC X(7) VALUE SPACES.  
022900 06 PRES-COMP-P PIC ZZ9.  
023000 03 REDEFINED-PT REDEFINES REDEFINED-PART PIC X(62).  
023100 03 FILLER PIC X(21) VALUE SPACES.  
023200 03 PCT-POTNTL-P PIC ZZ9.  
023300 03 FILLER PIC X(16) VALUE SPACES.  
023400 01 PAG-HDR-1.  
023500 03 FILLER PIC X(13) VALUE "REPORT DATE: ".  
023600 03 HEADER-DATE.  
023700 05 MO-HDR PIC 99.  
023800 05 FILLER PIC X VALUE "/".  
023900 05 DA-HDR PIC 99.  
024000 05 FILLER PIC X VALUE "/".  
024100 05 YR-HDR PIC 99.  
024200 03 FILLER PIC X(28) VALUE SPACES.  
024300 03 FILLER PIC X(23) VALUE "U.S.D.I. BUREAU OF LAND".  
024400 03 FILLER PIC X(11) VALUE " MANAGEMENT".  
024500 03 FILLER PIC X(22) VALUE SPACES.  
024600 03 FILLER PIC X(15) VALUE "PCN: P110 ".  
024700 03 FILLER PIC X(6) VALUE " PAGE ".  
024800 03 PAGE-NO PIC ZZ,ZZ9.  
024900 01 PAG-HDR-3.  
025000 03 FILLER PIC X(20) VALUE " STATE ".  
025100 03 STATE-NAME PIC X(10).  
025200 03 FILLER PIC X(24) VALUE SPACES.  
025300 03 FILLER PIC X(21) VALUE "ECOLOGICAL SITE INVEN".  
025400 03 FILLER PIC X(04) VALUE "TORY".  
025500 03 FILLER PIC X(53) VALUE SPACES.  
025600 01 PAG-HDR-4.  
025700 03 FILLER PIC X(20) VALUE " DISTRICT ".  
025800 03 DIST-NAME PIC X(12).  
025900 03 FILLER PIC X(100) VALUE SPACES.  
026000 01 PAG-HDR-5.  
026100 03 FILLER PIC X(20) VALUE " RESOURCE AREA ".  
026200 03 RA-NAME PIC X(13).  
026300 03 FILLER PIC X(19) VALUE SPACES.  
026400 03 FILLER PIC X(26) VALUE "RANGE ECOLOGICAL CONDITION".  
026500 03 FILLER PIC X(54) VALUE SPACES.  
026600 01 PAG-HDR-6.  
026700 03 FILLER PIC X(20) VALUE " PLANNING UNIT ".  
026800 03 PLU-NAME PIC X(15).  
026900 03 FILLER PIC X(97) VALUE SPACES.  
027000 01 HOLD-AREA.  
027100 04 ADST-DIST-RA-PLU-CDS-H.  
027200 06 ADST-CD-H PIC XX.  
027300 06 DIST-CD-H PIC XX.  
027400 06 RA-CD-H PIC XX.

```

027500      06  PLU-CD-H   PIC XX.
027600      04  DE-CD-EXPLN-8827-DECE-H.
027700      06  DIST-NAM-H PIC X(12).
027800      06  RA-NAM-H   PIC X(13).
027900      06  PLU-NAM-H  PIC X(15).
028000 01  DATE-WORK.
028100      02  SYSTEM-DATE PIC 9(6).
028200      02  TODAYS-DATE REDEFINES SYSTEM-DATE.
028300      04  YY   PIC 99.
028400      04  MM   PIC 99.
028500      04  DD   PIC 99.
028600 PROCEDURE DIVISION.
028700 SORTING SECTION.
028800 010-SORT.
028900      SORT SORT-FILE ON ASCENDING KEY SORT-ST-DIST-RA-PLU
029000      SORT-RANGE SORT-STRATUM SORT-REC-TYP SORT-PLANT-TYP
029100      SORT-PLANT-CD
029200      INPUT PROCEDURE IS CALC-PLANT-AVG
029300      OUTPUT PROCEDURE IS CALC-POTENTIAL.
029400      STOP RUN.
029500 CALC-PLANT-AVG SECTION.
029600 100-CONTROL.
029700      OPEN INPUT STRATAVG-FILE.
029800      MOVE SPACE TO EOF.
029900      READ STRATAVG-FILE
030000      AT END MOVE "DONE" TO EOF.
030100      ADD 1 TO RCDS-IN.
030200      MOVE ST-ST-DIST-RA-PLU TO OLD-ST-DIST-RA-PLU.
030300      MOVE ST-RANGE TO OLD-RS.
030400      MOVE ST-STRATUM TO OLD-STRAT.
030500      MOVE ST-PLANT-CD TO OLD-PLANT.
030600      MOVE ST-PLANT-TYP TO OLD-TYP.
030700      MOVE ST-SWA TO OLD-SWA.
030800      PERFORM 110-PROCESS UNTIL DONE.
030900      PERFORM 120-RELEASE.
031000      CLOSE STRATAVG-FILE.
031100      GO TO 130-EXIT.
031200 110-PROCESS.
031300      IF ST-ST-DIST-RA-PLU = OLD-ST-DIST-RA-PLU
031400      AND ST-RANGE = OLD-RS
031500      AND ST-STRATUM = OLD-STRAT
031600      AND ST-PLANT-CD = OLD-PLANT
031700      PERFORM 115-CK-SWA
031800      ELSE
031900      PERFORM 120-RELEASE
032000      MOVE ST-ST-DIST-RA-PLU TO OLD-ST-DIST-RA-PLU
032100      MOVE ST-RANGE TO OLD-RS
032200      MOVE ST-STRATUM TO OLD-STRAT
032300      MOVE ST-SWA TO OLD-SWA
032400      MOVE ST-PLANT-CD TO OLD-PLANT
032500      MOVE ST-PLANT-TYP TO OLD-TYP
032600      MOVE ST-STRAT-AVG TO TOT-STRAT-AVG.
032700      READ STRATAVG-FILE
032800      AT END MOVE "DONE" TO EOF.
032900      IF NOT DONE
033000      ADD 1 TO RCDS-IN.
033100 115-CK-SWA.

```

```

033200     IF ST-SWA = OLD-SWA
033300         ADD ST-STRAT-AVG TO TOT-STRAT-AVG.
033400 120-RELEASE.
033500     MOVE OLD-ST-RS-STR TO SO-KEY.
033600     MOVE OLD-PLANT TO S-PLNT-CD.
033700     MOVE OLD-TYP TO S-PLNT-TYP.
033800     MOVE TOT-STRAT-AVG TO S-STRTAVG.
033900     MOVE 1 TO S-RC-TYP.
034000     RELEASE SORT-REC FROM S-REC.
034100*    DISPLAY "SORT-REC = " SORT-REC.
034200     MOVE 2 TO S-RC-TYP.
034300     RELEASE SORT-REC FROM S-REC.
034400     ADD 2 TO RCDS-RLS.
034500 130-EXIT.
034600     EXIT.
034700 CALC-POTENTIAL SECTION.
034800 200-CONTROL.
034900     MOVE ZERO TO TOT-STRAT-AVG.
035000     READY DIC-DE.
035100     OPEN OUTPUT STRTPOT-FILE.
035200     OPEN OUTPUT PRINT-FILE.
035300     OPEN INPUT RANGE-FILE.
035400     RETURN SORT-FILE
035500         AT END DISPLAY "SORT ERROR" STOP RUN.
035600*    DISPLAY "RETURNED = " SORT-REC.
035700     ADD 1 TO RCDS-RETURN.
035800     PERFORM 210-PROCESS UNTIL
035900         STR-PC = HIGH-VALUES.
036000     CLOSE STRTPOT-FILE PRINT-FILE.
036100     FINISH DIC-DE.
036200     DISPLAY "PAGES PRINTED= " PAGE-NO.
036300     DISPLAY "STRATAVG IN = " RCDS-IN.
036400     DISPLAY "RCDS RELEASE = " RCDS-RLS.
036500     DISPLAY "RCDS RETURN = " RCDS-RETURN.
036600     DISPLAY "STRTPOT OUT = " RCDS-RTN.
036700     GO TO 999-EXIT.
036800 210-PROCESS.
036900     PERFORM 220-CALC-STRAT-TOT UNTIL SORT-REC-TYP = 2.
037000*    DISPLAY "TOT-STRAT-AVG = " TOT-STRAT-AVG.
037100     MOVE SORT-PLANT-CD TO STR-PLNT.
037200     MOVE SORT-PLANT-TYP TO STR-TYP.
037300     PERFORM 230-PROCESS-RANGE UNTIL (SORT-REC-TYP = 1) OR
037400         (STR-PC = HIGH-VALUES ).
037500     PERFORM 310-STRATUM-SUMMARY.
037600     MOVE ZERO TO TOT-PCT TOT-STRAT-AVG.
037700 220-CALC-STRAT-TOT.
037800     ADD SORT-STRAT-AVG TO TOT-STRAT-AVG.
037900     RETURN SORT-FILE
038000         AT END DISPLAY "END ON REC-TYP = 1" STOP RUN.
038100     ADD 1 TO RCDS-RETURN.
038200*    DISPLAY "RETURNED = " SORT-REC.
038300 230-PROCESS-RANGE.
038400     MOVE SORT-ST-DIST-RA-PLU TO OLD-ST-DIST-RA-PLU.
038500     MOVE SORT-RANGE TO RRRANGE-SITE OLD-RS.
038600     MOVE SORT-STRATUM TO OLD-STRAT.
038700     MOVE 0 TO OLD-TYP.
038800     MOVE 1 TO RRECD-CNTR.

```



```

038900 READ RANGE-FILE
039000 KEY IS RPRIMARY-KEY
039100 INVALID KEY DISPLAY "NO RANGE SITE FOR " SORT-REC
039200 DISPLAY "FILE STATUS " FILE-STATUS
039300 CLOSE STRTPOT-FILE PRINT-FILE
039400 STOP RUN.
039500* DISPLAY "RANGE-REC = " RANGE-REC.
039600 PERFORM 300-PHD.
039700 MOVE RPLANT-TYP TO RS-TYP.
039800 MOVE RPLANT-CD TO RS-PLNT.
039900 PERFORM 240-COMPARE UNTIL
040000 (SORT-REC-TYP = 1) OR (STR-PC = HIGH-VALUES).
040100 240-COMPARE.
040200 COMPUTE PRES-PROD-P ROUNDED = SORT-STRAT-AVG.
040300 COMPUTE HOLD-PCT-STRAT ROUNDED = SORT-STRAT-AVG /
040400 TOT-STRAT-AVG * 100.
040500 MOVE HOLD-PCT-STRAT TO PRES-COMP-P.
040600 IF RS-PC < STR-PC
040700 PERFORM 420-READ-NEXT UNTIL (RS-PC NOT < STR-PC) OR
040800 RS-PC = HIGH-VALUES.
040900 IF RS-PC > STR-PC
041000 PERFORM 250-NO-MATCH.
041100 IF RS-PC = STR-PC
041200 PERFORM 270-MATCH.
041300 PERFORM 410-RETURN.
041400 IF STR-PC NOT = HIGH-VALUES
041500 ADD 1 TO RCDS-RETURN
041600 MOVE SORT-PLANT-TYP TO STR-TYP
041700 MOVE SORT-PLANT-CD TO STR-PLNT.
041800 250-NO-MATCH.
041900 MOVE ZERO TO POT-PROD-P COMP-PCT-1-P POT-COMP-PCT
042000 NORM-PCT PCT-POTNTL-P.
042100 MOVE SORT-PLANT-TYP TO COMPARE-TYP.
042200 MOVE SORT-PLANT-CD TO PLANT-SYM-P.
042300 PERFORM 290-WRITE.
042400 270-MATCH.
042500 COMPUTE HOLD-PCT-POT ROUNDED = RNORM-POT-PCT-COMP.
042600 MOVE HOLD-PCT-POT TO NORM-PCT.
042700 MOVE RPCT-COMP TO COMP-PCT-1-P.
042800 MOVE RPOT-LBS-ACRE-AVG TO POT-PROD-P.
042900 IF RPCT-COMP > HOLD-PCT-STRAT
043000 ADD HOLD-PCT-STRAT TO TOT-PCT
043100 MOVE HOLD-PCT-STRAT TO POT-COMP-PCT PCT-POTNTL-P
043200 ELSE
043300 ADD RPCT-COMP TO TOT-PCT
043400 MOVE RPCT-COMP TO PCT-POTNTL-P POT-COMP-PCT.
043500 MOVE SORT-PLANT-TYP TO COMPARE-TYP.
043600 MOVE SORT-PLANT-CD TO PLANT-SYM-P.
043700 PERFORM 290-WRITE.
043800 290-WRITE.
043900 IF LCNTR > 52
044000 PERFORM 300-PHD.
044100 IF COMPARE-TYP NOT = OLD-TYP OR
044200 LCNTR < 15
044300 MOVE PLNT-TYP (COMPARE-TYP) TO TYP
044400 WRITE PREC FROM TYP-LINE AFTER 2
044500 ADD 2 TO LCNTR

```

```

044600     PERFORM 294-DISPLAY-1
044700     IF COMPARE-TYP = 3
044800         MOVE PLNT-TYP (4) TO TYP
044900         WRITE PREC FROM TYP-LINE AFTER 1
045000         ADD 1 TO LCNTR
045100         PERFORM 295-DISPLAY-2.
045200     IF PNO = 1
045300         DISPLAY DATA-LINE.
045400     WRITE PREC FROM DATA-LINE AFTER 1.
045500     ADD 1 TO LCNTR.
045600     MOVE OLD-ST-DIST-RA-PLU TO ST-DIST-RA-PLU.
045700     MOVE OLD-RS TO RANGE-SITE.
045800     MOVE OLD-STRAT TO STRATUM.
045900     MOVE 2 TO REC-TYP-2.
046000     IF OLD-TYP = 0
046100         MOVE COMPARE-TYP TO OLD-TYP.
046200     MOVE OLD-TYP TO PLANT-TYP.
046300     MOVE PLANT-SYM-P TO PLANT-CD.
046400     COMPUTE PRESENT-PRODUCTION ROUNDED = SORT-STRAT-AVG.
046500     IF RS-PC > STR-PC
046600         MOVE ZERO TO POTENTIAL-PRODUCTION
046700     ELSE
046800         COMPUTE POTENTIAL-PRODUCTION ROUNDED = RPOT-LBS-ACRE-AVG.
046900     WRITE POT-REC.
047000     ADD 1 TO RCDS-RTN.
047100     MOVE COMPARE-TYP TO OLD-TYP.
047200 294-DISPLAY-1.
047300     IF PNO = 1
047400         DISPLAY SPACES
047500         DISPLAY TYP-LINE.
047600 295-DISPLAY-2.
047700     IF PNO = 1
047800         DISPLAY TYP-LINE.
047900 300-PHD.
048000     ADD 1 TO PNO.
048100     MOVE PNO TO PAGE-NO.
048200     ACCEPT SYSTEM-DATE FROM DATE.
048300     MOVE YY TO YR-HDR.
048400     MOVE MM TO MO-HDR.
048500     MOVE DD TO DA-HDR.
048600     IF PNO = 1
048700         DISPLAY PAG-HDR-1.
048800     WRITE PREC FROM PAG-HDR-1 AFTER PAGE.
048900     MOVE 0003 TO DE-NO-8801-DEC.
049000     MOVE OLD-ST-DIST-RA-PLU TO
049100         DE-CD-8822-DEC, ADST-DIST-RA-PLU-CDS-H.
049200     FIND ANY CODE-DEC.
049300     IF DB-STATUS NOT = ZERO
049400         DISPLAY "BAD STATE CODE " CALL "ABOR".
049500     GET CODE-DEC.
049600     MOVE DE-CD-NAM-8823-DEC TO STATE-NAME.
049700     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
049800     IF DB-STATUS NOT = ZERO
049900         DISPLAY "BAD IST,RA,PLU" CALL "ABOR".
050000     GET CODE-EXPL-DECE.
050100     MOVE DE-CD-EXPLN-8827-DECE TO DE-CD-EXPLN-8827-DECE-H.
050200     MOVE RA-NAM-H TO RA-NAME.

```

```

050300     MOVE DIST-NAM-H TO DIST-NAME.
050400     MOVE PLU-NAM-H TO PLU-NAME.
050500     IF PNO = 1
050600         DISPLAY PAG-HDR-3
050700         DISPLAY PAG-HDR-4
050800         DISPLAY PAG-HDR-5
050900         DISPLAY PAG-HDR-6.
051000     WRITE PREC FROM PAG-HDR-3 AFTER 1.
051100     WRITE PREC FROM PAG-HDR-4 AFTER 1.
051200     WRITE PREC FROM PAG-HDR-5 AFTER 1.
051300     WRITE PREC FROM PAG-HDR-6 AFTER 1.
051400     MOVE OLD-RS TO RANGE-SITE-P.
051500     MOVE OLD-STRAT TO STRATUM-NO.
051600     IF PNO = 1
051700         DISPLAY HEADING-LINE-7
051800         DISPLAY SPACES
051900         DISPLAY HEADING-LINE-9
052000         DISPLAY HEADING-LINE-10
052100         DISPLAY HEADING-LINE-11
052200         DISPLAY SPACES.
052300     WRITE PREC FROM HEADING-LINE-7 AFTER 1.
052400     WRITE PREC FROM HEADING-LINE-9 AFTER 2.
052500     WRITE PREC FROM HEADING-LINE-10 AFTER 1.
052600     WRITE PREC FROM HEADING-LINE-11 AFTER 1.
052700     MOVE SPACES TO PREC.
052800     WRITE PREC AFTER 1.
052900     MOVE 14 TO LCNTR.
053000 310-STRATUM-SUMMARY.
053100     MOVE ZERO TO DUM-ZERO.
053200     MOVE OLD-ST-DIST-RA-PLU TO ST-DIST-RA-PLU.
053300     MOVE OLD-STRAT TO STRATUM.
053400     MOVE OLD-RS TO RANGE-SITE.
053500     MOVE 1 TO REC-TYP-1.
053600     MOVE TOT-PCT TO TOTAL-POT-PROD-PERCENT PCT-POTNTL-P.
053700     MOVE SPACES TO REDEFINED-PT.
053800     WRITE POT-REC.
053900     ADD 1 TO RCDS-RTN.
054000     MOVE "TOTAL  " TO PLANT-SYM-P.
054100     IF LCNTR > 50
054200         PERFORM 300-PHD.
054300     IF PNO = 1
054400         DISPLAY SPACES
054500         DISPLAY DATA-LINE.
054600     WRITE PREC FROM DATA-LINE AFTER 2.
054700     ADD 1 TO LCNTR.
054800     IF TOT-PCT > 75
054900         MOVE "EXCELLENT" TO COND-CLASS
055000     ELSE IF TOT-PCT > 50
055100         MOVE "GOOD      " TO COND-CLASS
055200     ELSE IF TOT-PCT > 25
055300         MOVE "FAIR      " TO COND-CLASS
055400     ELSE
055500         MOVE "POOR      " TO COND-CLASS.
055600     MOVE OLD-STRAT TO STRATUM-NUM.
055700     IF PNO = 1
055800         DISPLAY SPACES
055900         DISPLAY CONDITION-CLASS-LINE

```

```

056000         DISPLAY PERCENT-LINE-2
056100         DISPLAY PERCENT-LINE-3
056200         DISPLAY PERCENT-LINE-4.
056300         WRITE PREC FROM CONDITION-CLASS-LINE AFTER 2.
056400         WRITE PREC FROM PERCENT-LINE-2 AFTER 1.
056500         WRITE PREC FROM PERCENT-LINE-3 AFTER 1.
056600         WRITE PREC FROM PERCENT-LINE-4 AFTER 1.
056700 410-RETURN.
056800         RETURN SORT-FILE
056900             AT END MOVE HIGH-VALUES TO STR-PC.
057000*        IF STR-PC NOT = HIGH-VALUES
057100*            DISPLAY "SORT-REC = " SORT-REC.
057200 420-READ-NEXT.
057300         READ RANGE-FILE NEXT
057400             AT END MOVE HIGH-VALUES TO RS-PC.
057500         IF RS-PC NOT = HIGH-VALUES
057600             MOVE RPLANT-TYP TO RS-TYP
057700*        DISPLAY "RANGE REC = " RANGE-REC
057800             MOVE RPLANT-CD TO RS-PLNT.
057900         IF RS-PC NOT = HIGH-VALUES
058000             IF RRANGE-SITE NOT = OLD-RS
058100                 MOVE HIGH-VALUES TO RS-PC.
058200 999-EXIT.
058300         EXIT.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES690M.
000300*         CREATES THE CANOPY FILE FOR INPUT TO PROGRAM ES700P (P12)
000400*
000500 AUTHOR. RON BAKER.
000600 DATE-WRITTEN. OCTOBER 1, 1979.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400         SELECT FILE-D1
001500             ASSIGN TO D1
001600             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
001700             ACCESS IS SEQUENTIAL.
001800         SELECT FILE-D2
001900             ASSIGN TO D2
002000             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002100             ACCESS IS SEQUENTIAL.
002200         SELECT FILE-D3
002300             ASSIGN TO D3
002400             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002500             ACCESS IS SEQUENTIAL.
002600         SELECT FILE-P1
002700             ASSIGN TO P1-PRINTER
002800             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002900         SELECT SORT-FILE
003000             ASSIGN TO S1.
003100 DATA DIVISION.
003200 FILE SECTION.

```

003300 FD FILE-D1  
003400 CODE-SET IS GBCD  
003500 LABEL RECORDS ARE STANDARD  
003600 DATA RECORD IS REC-D1.  
003700 01 REC-D1.  
003800 03 SDRP-D1.  
003900 05 ST-D1 PIC XX.  
004000 05 DIS-D1 PIC 99.  
004100 05 RA-D1 PIC 99.  
004200 05 PLU-D1 PIC 99.  
004300 03 ALOT-D1 PIC 9999.  
004400 03 PAST-D1 PIC 99.  
004500 03 SWAT-D1.  
004600 05 SWA-D1 PIC X(4).  
004700 05 TRN-D1 PIC 99.  
004800 03 REC-KEY-D1 PIC 9.  
004900 03 FILLER PIC X(81).  
005000 FD FILE-D2  
005100 CODE-SET IS GBCD  
005200 LABEL RECORDS ARE STANDARD  
005300 DATA RECORD IS REC-D2.  
005400 01 REC-D2.  
005500 03 SDRPS-D2.  
005600 05 ST-D2 PIC XX.  
005700 05 DIS-D2 PIC 99.  
005800 05 RA-D2 PIC 99.  
005900 05 PLU-D2 PIC 99.  
006000 05 SWAT-D2.  
006100 07 SWA-D2 PIC X(4).  
006200 07 TRN-D2 PIC 99.  
006300 03 RNG-SITE-D2 PIC X(11).  
006400 03 STRATUM-D2 PIC 9999.  
006500 03 FILLER PIC X(9).  
006600 03 COMP-AREA-D2 PIC X.  
006700 03 FILLER PIC X(9).  
006800 FD FILE-D3  
006900 CODE-SET IS GBCD  
007000 LABEL RECORDS ARE STANDARD  
007100 DATA RECORD IS REC-D3.  
007200 01 REC-D3 PIC X(48).  
007300 SD SORT-FILE.  
007400 01 SORT-REC.  
007500 03 SDRP-SR PIC X(8).  
007600 03 REC-TYP-SR PIC 9.  
007700 03 CANOPY-SR PIC 9.  
007800 03 PLANT-GRND-SR PIC X(7).  
007900 03 HITS-SR PIC 999.  
008000 03 SWAT-SR.  
008100 05 SWA-SR PIC XXXX.  
008200 05 TRN-SR PIC 99.  
008300 03 PLNT-BL-CD-SR PIC 9.  
008400 FD FILE-P1  
008500 LABEL RECORD IS STANDARD  
008600 CODE-SET IS GBCD.  
008700 01 REC-P1 PIC X(132).  
008800 WORKING-STORAGE SECTION.  
008900 77 RETURN-COUNT PIC 9(8) VALUE ZERO.

009000 77 MASTER-COUNT PIC 9(8) VALUE ZERO.  
009100 77 OUT-COUNT PIC 9(8) VALUE ZERO.  
009200 77 SORT-COUNT PIC 9(8) VALUE ZERO.  
009300 77 DISPLAY-COUNT PIC 9(8) VALUE ZERO.  
009400 77 MASTER-EOF-SW PIC 9 VALUE ZERO.  
009500 77 SORT-EOF-SW PIC 9 VALUE ZERO.  
009600 77 LINE-COUNT PIC 99 VALUE ZERO.  
009700 77 PAGE-COUNT PIC 9(4) VALUE ZERO.  
009800 01 SUB PIC 9.  
009900 01 SUB-RD REDEFINES SUB PIC X.  
010000 01 PLANT-CANOPY-TABLE.  
010100 03 FILLER PIC X(21).  
010200 03 PLNT-BL-LV-TB OCCURS 4 TIMES.  
010300 05 PLANT-CD-BL-HLD.  
010400 07 BL-HLD PIC X.  
010500 07 BL-FILL PIC X(6).  
010600 05 FILLER PIC X.  
010700 03 TYP-HITS PIC 999.  
010800 03 FILLER PIC X(46).  
010900 01 SORT-REC-HLD.  
011000 03 SDRP-SRH PIC X(8).  
011100 03 GRP-SRH.  
011200 05 REC-TYP-SRH PIC 9.  
011300 05 CANOPY-SRH PIC 9.  
011400 05 PLANT-GRND-SRH.  
011500 07 GRND-SRH PIC X.  
011600 07 FILLER PIC X(6).  
011700 05 HITS-SRH PIC 999.  
011800 05 SWAT-SRH.  
011900 07 SWA-SRH PIC XXXX.  
012000 07 TRN-SRH PIC 99.  
012100 05 PLNT-BL-CD-SRH PIC 9.  
012200 01 REC-KEY1.  
012300 05 SWAT-RK1 PIC X(20).  
012400 05 REC-KEY-RK1 PIC 9(1).  
012500 05 VEG-SUB-TYPE-RK1 PIC 9(4).  
012600 05 SWA-PCT-RK1 PIC 9(3).  
012700 05 CMPR-ID-FLAG-RK1 PIC X(1).  
012800 05 SSF-GRP-RK1 PIC X(14).  
012900 05 SSF-VAL-RAT-RK1 REDEFINES SSF-GRP-RK1  
OCCURS 7 TIMES PIC 9(2).  
013100 05 TYP-GC-HITS-GRP-RK1 PIC X(21).  
013200 05 TYP-GC-HITS-RK1 REDEFINES TYP-GC-HITS-GRP-RK1  
OCCURS 7 TIMES PIC 9(3).  
013300 05 FILLER PIC X(38).  
013500 01 REC-KEY3.  
013600 05 SWAT-RK3 PIC X(20).  
013700 05 REC-KEY-RK3 PIC 9(01).  
013800 05 PLANT-CD-BL-RK3 PIC X(07).  
013900 05 LEV-TRN-HIT-BL-RK3 PIC X(01).  
014000 05 GRP-1-RK3 PIC X(24).  
014100 05 GRP-2-RK3 REDEFINES GRP-1-RK3 OCCURS 3 TIMES.  
014200 10 PLANT-CD-RK3 PIC X(07).  
014300 10 LEV-TRN-HIT-RK3 PIC X(01).  
014400 05 TYP-GC-HITS-RK3 PIC 9(03).  
014500 05 FILLER PIC X(46).  
014600 01 REC-D3-HLD.

014700 03 CNTL-1-D3-HLD.  
014800 05 SDRP-D3-HLD PIC X(8).  
014900 05 RNG-SITE-D3-HLD PIC X(11).  
015000 05 COMP-AREA-D3-HLD PIC XXXX.  
015100 05 STRATUM-D3-HLD PIC 9999.  
015200 03 GRP-D3-HLD.  
015300 05 CNTL-2-D3-HLD.  
015400 07 REC-TYP-D3-HLD PIC 9.  
015500 07 CANOPY-D3-HLD PIC 9.  
015600 07 PLANT-GRND-D3-HLD PIC X(7).  
015700 05 HITS-D3-HLD PIC 999.  
015800 05 CNTL-3-D3-HLD.  
015900 07 SWAT-D3-HLD.  
016000 09 SWA-D3-HLD PIC XXXX.  
016100 09 TRN-D3-HLD PIC 99.  
016200 07 PLNT-BL-CD-D3-HLD PIC 9.  
016300 03 FILLER PIC XX.  
016400 01 REC-D3-CNTL.  
016500 03 CNTL-1-D3-CNTL PIC X(27) VALUE SPACE.  
016600 03 CNTL-2-D3-CNTL PIC X(9).  
016700 03 HITS-D3-CNTL PIC 999.  
016800 03 CNTL-3-D3-CNTL PIC X(7).  
016900 01 HOLD-DISP-CODES PIC X(14) VALUE ZEROS.  
017000 01 DISP-CODES.  
017100 05 DISP-CD1 PIC XX.  
017200 05 DISP-CD2 PIC XX.  
017300 05 DISP-CD3 PIC XX.  
017400 05 DISP-CD4 PIC XX.  
017500 05 DISP-CD5 PIC X(4).  
017600 05 DISP-CD6 PIC XX.  
017700 01 CURRENT-DATE.  
017800 05 CURRENT-YEAR PIC XX.  
017900 05 CURRENT-MONTH PIC XX.  
018000 05 CURRENT-DAY PIC XX.  
018100 01 DISP-MSG.  
018200 05 DISP-MSG-1 PIC X(33) VALUE  
018300 "NO VB STRATUM RECORD FOR THE FOLL".  
018400 05 DISP-MSG-2 PIC X(33) VALUE  
018500 "OWING ST,DIST,RA,PLU,SWA,TRANSECT".  
018600 01 SDRPS-SK.  
018700 05 ST-DIST-RA-PLU-KEY.  
018800 10 ADST-KEY PIC XX.  
018900 10 DIST-KEY PIC XX.  
019000 10 RA-KEY PIC XX.  
019100 10 PLU-KEY PIC XX.  
019200 05 SWAT-KEY.  
019300 07 SWA-KEY PIC X(4).  
019400 07 TRN-KEY PIC XX.  
019500 01 DISP-REC.  
019600 03 DISP-STRAT PIC 9999.  
019700 03 FILLER PIC X(9) VALUE SPACE.  
019800 03 TRNS-DISPLAY OCCURS 17 TIMES.  
019900 05 DISP-TRN PIC X(6).  
020000 05 FILLER PIC X.  
020100 01 DISP-REC-RD REDEFINES DISP-REC PIC X(132).  
020200 01 DISP-REC-2.  
020300 03 FILLER PIC XXXX.

```

020400      03  FILLER          PIC X(9)   VALUE SPACE.
020500      03  TRNS-DISPLAY-2 OCCURS 17 TIMES.
020600          05  DISP-TRN-2   PIC X(6).
020700          05  FILLER          PIC X.
020800 01  DISP-REC-2-RD REDEFINES DISP-REC-2   PIC X(132).
020900 01  P-SPACE   PIC X(132)   VALUE SPACE.
021000 PROCEDURE DIVISION.
021100 001-SORT SECTION.
021200 005-SORT-PARA.
021300      OPEN INPUT FILE-D1.
021400      ACCEPT CURRENT-DATE FROM DATE.
021500      SORT SORT-FILE
021600          ASCENDING SDRP-SR SWAT-SR REC-TYP-SR PLNT-BL-CD-SR
021700          PLANT-GRND-SR CANOPY-SR
021800          INPUT  PROCEDURE IS 050-BUILD-SORT
021900          OUTPUT PROCEDURE IS 100-SUM-FILES.
022000      CLOSE  FILE-D2 FILE-D3.
022100      STOP RUN.
022200 050-BUILD-SORT SECTION.
022300 055-READ.
022400      READ FILE-D1 AT END
022500          GO TO 090-EXIT.
022600*      IF SWA-D1 NOT = "D125" GO TO 055-READ.
022700          IF REC-KEY-D1 = 1
022800              MOVE REC-D1 TO REC-KEY1
022900              GO TO 060-PROC-RK1.
023000          IF REC-KEY-D1 = 3
023100              MOVE REC-D1 TO REC-KEY3
023200              GO TO 070-PROC-RK3.
023300          GO TO 055-READ.
023400 060-PROC-RK1.
023500      MOVE ZERO TO SUB.
023600      MOVE SPACE TO SORT-REC-HLD.
023700      MOVE SDRP-D1 TO SDRP-SRH.
023800      MOVE SWAT-D1 TO SWAT-SRH.
023900      MOVE ZERO TO PLNT-BL-CD-SRH.
024000      MOVE 1 TO CANOPY-SRH.
024100 062-LP.
024200      ADD 1 TO SUB.
024300      IF SUB > 7
024400          GO TO 055-READ.
024500      IF TYP-GC-HITS-RK1 (SUB) > ZERO NEXT SENTENCE ELSE
024600          GO TO 062-LP.
024700      MOVE 1 TO REC-TYP-SRH.
024800      MOVE SUB-RD TO GRND-SRH.
024900      MOVE TYP-GC-HITS-RK1 (SUB) TO HITS-SRH.
025000      MOVE SORT-REC-HLD TO SORT-REC.
025100      RELEASE SORT-REC.
025200      MOVE 2 TO REC-TYP-SRH.
025300      MOVE SORT-REC-HLD TO SORT-REC.
025400*      DISPLAY "SRT= " SORT-REC-HLD.
025500      RELEASE SORT-REC.
025600      GO TO 062-LP.
025700 070-PROC-RK3.
025800      MOVE ZERO TO SUB.
025900      MOVE SPACE TO SORT-REC-HLD.
026000      MOVE SDRP-D1 TO SDRP-SRH.

```



```

026100     MOVE SWAT-D1 TO SWAT-SRH.
026200     MOVE REC-KEY3 TO PLANT-CANOPY-TABLE.
026300*    DISPLAY "PCT= " PLANT-CANOPY-TABLE.
026400 072-LP.
026500     ADD 1 TO SUB.
026600     IF SUB > 4
026700         GO TO 055-READ.
026800     IF BL-HLD (SUB) = SPACE
026900         GO TO 072-LP.
027000     MOVE SPACE TO PLANT-GRND-SRH.
027100     MOVE 1 TO REC-TYP-SRH.
027200     MOVE SUB TO CANOPY-SRH.
027300     MOVE TYP-HITS TO HITS-SRH.
027400     IF BL-FILL (SUB) NOT = SPACE
027500         MOVE PLANT-CD-BL-HLD (SUB) TO PLANT-GRND-SRH
027600         MOVE 1 TO PLNT-BL-CD-SRH
027700         GO TO 080-MOVE.
027800     MOVE ZERO TO PLNT-BL-CD-SRH.
027900     IF BL-HLD (SUB) = "B" MOVE "1" TO GRND-SRH.
028000     IF BL-HLD (SUB) = "P" MOVE "2" TO GRND-SRH.
028100     IF BL-HLD (SUB) = "N" MOVE "3" TO GRND-SRH.
028200     IF BL-HLD (SUB) = "G" MOVE "4" TO GRND-SRH.
028300     IF BL-HLD (SUB) = "C" MOVE "5" TO GRND-SRH.
028400     IF BL-HLD (SUB) = "S" MOVE "6" TO GRND-SRH.
028500     IF BL-HLD (SUB) = "R" MOVE "7" TO GRND-SRH.
028600 080-MOVE.
028700     MOVE SORT-REC-HLD TO SORT-REC.
028800*    DISPLAY "SRT= " SORT-REC-HLD.
028900     RELEASE SORT-REC.
029000     MOVE 2 TO REC-TYP-SRH.
029100     MOVE SORT-REC-HLD TO SORT-REC.
029200     RELEASE SORT-REC.
029300     GO TO 072-LP.
029400 090-EXIT.
029500     EXIT.
029600 100-SUM-FILES SECTION.
029700 105-OPEN.
029800     CLOSE FILE-D1.
029900     OPEN INPUT FILE-D2.
030000     OPEN OUTPUT FILE-D3.
030100     PERFORM 200-READ-SWA THRU 299-EXIT.
030200 110-RETURN.
030300     RETURN SORT-FILE
030400         AT END MOVE 1 TO SORT-EOF-SW
030500         GO TO 500-EOJ.
030600     MOVE SORT-REC TO SORT-REC-HLD.
030700     ADD 1 TO SORT-COUNT.
030800     MOVE SDRP-SR TO ST-DIST-RA-PLU-KEY.
030900     MOVE SWAT-SR TO SWAT-KEY.
031000 130-MAINLINE.
031100     IF MASTER-EOF-SW = 1 OR SORT-EOF-SW = 1
031200         GO TO 500-EOJ.
031300     IF SDRPS-SK GREATER THAN SDRPS-D2
031400         PERFORM 200-READ-SWA THRU 299-EXIT
031500         GO TO 130-MAINLINE.
031600     IF SDRPS-SK LESS THAN SDRPS-D2
031700         PERFORM 400-DISPLAY THRU 499-EXIT

```

```

031800         GO TO 110-RETURN.
031900         PERFORM 300-CREATE-OUTPUT-FILE THRU 399-EXIT.
032000         GO TO 110-RETURN.
032100 200-READ-SWA.
032200         READ FILE-D2
032300         AT END MOVE 1 TO MASTER-EOF-SW
032400         GO TO 299-EXIT.
032500         IF ST-D2 = "00" MOVE "UT" TO ST-D2
032600         MOVE 08 TO DIS-D2
032700         MOVE 48 TO RA-D2.
032800         ADD 1 TO MASTER-COUNT.
032900 299-EXIT.
033000         EXIT.
033100 300-CREATE-OUTPUT-FILE.
033200         MOVE SPACE TO REC-D3-HLD.
033300         MOVE STRATUM-D2 TO STRATUM-D3-HLD.
033400         MOVE RNG-SITE-D2 TO RNG-SITE-D3-HLD.
033500         IF COMP-AREA-D2 = "C"
033600         MOVE SWA-D2 TO COMP-AREA-D3-HLD.
033700         MOVE SDRP-SRH TO SDRP-D3-HLD.
033800         MOVE GRP-SRH TO GRP-D3-HLD.
033900 350-OUTPUT-WRITE.
034000         IF CNTL-1-D3-CNTL = SPACE
034100         MOVE REC-D3-HLD TO REC-D3-CNTL
034200         GO TO 399-EXIT.
034300         IF (CNTL-1-D3-HLD = CNTL-1-D3-CNTL) AND
034400         (CNTL-2-D3-HLD = CNTL-2-D3-CNTL) AND
034500         (CNTL-3-D3-HLD = CNTL-3-D3-CNTL)
034600         ADD HITS-D3-HLD TO HITS-D3-CNTL
034700         GO TO 399-EXIT.
034800         WRITE REC-D3 FROM REC-D3-CNTL.
034900         MOVE REC-D3-HLD TO REC-D3-CNTL.
035000         ADD 1 TO OUT-COUNT.
035100 399-EXIT.
035200         EXIT.
035300 400-DISPLAY.
035400         MOVE ADST-KEY TO DISP-CD1.
035500         MOVE DIST-KEY TO DISP-CD2.
035600         MOVE RA-KEY   TO DISP-CD3.
035700         MOVE PLU-KEY  TO DISP-CD4.
035800         MOVE SWA-KEY  TO DISP-CD5.
035900         MOVE TRN-KEY  TO DISP-CD6.
036000         IF DISP-CODES = HOLD-DISP-CODES
036100         GO TO 450-DISPLAY.
036200         DISPLAY DISP-MSG, ADST-KEY, DIST-KEY, RA-KEY,
036300         PLU-KEY, SWA-KEY, TRN-KEY.
036400         ADD 1 TO DISPLAY-COUNT.
036500 450-DISPLAY.
036600         MOVE DISP-CODES TO HOLD-DISP-CODES.
036700 499-EXIT.
036800         EXIT.
036900 500-EOJ.
037000         WRITE REC-D3 FROM REC-D3-CNTL.
037100         ADD 1 TO OUT-COUNT.
037200         DISPLAY "NO OF MASTER RECORDS READ      =" MASTER-COUNT.
037300         DISPLAY "NO OF RECORDS WRITTEN        =" OUT-COUNT.
037400         DISPLAY "NO OF SORT RECORDS READ      =" SORT-COUNT.

```

```

037500 599-EXIT.
037600     EXIT.
037700 899-EXIT.
037800     EXIT.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES700P.
000300*     GROUND AND VEGETATION COVER REPORT (P12).
000400*
000500 AUTHOR. RON BAKER.
000600 DATE-WRITTEN. OCTOBER 3, 1979.
000700 DATE-COMPILED.
000800 INSTALLATION. USBLM.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.
001200 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001300 INPUT-OUTPUT SECTION.
001400 FILE-CONTROL.
001500     SELECT FILE-D3
001600         ASSIGN TO D3
001700         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
001800         ACCESS IS SEQUENTIAL.
001900     SELECT FILE-D4
002000         ASSIGN TO D4
002100         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002200         ACCESS IS SEQUENTIAL.
002300     SELECT FILE-P1
002400         ASSIGN TO P1-PRINTER
002500         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002600     SELECT SORT-FILE
002700         ASSIGN TO S1.
002800 DATA DIVISION.
002900 SUB-SCHEMA SECTION.
003000 DB  CODVAL2 WITHIN BLMDIC.
003100 FILE SECTION.
003200 FD  FILE-D4
003300     CODE-SET IS GBCD
003400     LABEL RECORDS ARE STANDARD
003500     DATA RECORD IS REC-D4.
003600 01  REC-D4  PIC X(36).
003700 FD  FILE-D3
003800     CODE-SET IS GBCD
003900     LABEL RECORDS ARE STANDARD
004000     DATA RECORD IS REC-D3.
004100 01  REC-D3.
004200     03  SDRP-D3          PIC X(8).
004300     03  RNG-SITE-D3     PIC X(11).
004400     03  COMP-AREA-D3    PIC XXXX.
004500     03  STRATUM-D3      PIC 9999.
004600     03  GRP-D3 .
004700     05  REC-TYP-D3      PIC 9.
004800     05  CANOPY-D3       PIC 9.
004900     05  PLANT-GRND-D3   PIC X(7).
005000     05  HITS-D3         PIC 999.
005100     05  SWAT-D3 .
005200     07  SWA-D3          PIC XXXX.

```

```

005300          07 TRN-D3          PIC 99.
005400          05 PLNT-BL-CD-D3    PIC 9.
005500    03 FILLER                  PIC XX.
005600 SD  SORT-FILE.
005700 01  SORT-REC.
005800    03 SDRP-SR                  PIC X(8).
005900    03 RNG-SITE-SR             PIC X(11).
006000    03 COMP-AREA-SR           PIC XXXX.
006100    03 STRATUM-SR             PIC 9999.
006200    03 GRP-SR .
006300          05 REC-TYP-SR         PIC 9.
006400          05 CANOPY-SR         PIC 9.
006500          05 PLANT-GRND-SR.
006600          07 GRND-SR           PIC 9.
006700          07 FILL-SR          PIC X(6).
006800          05 HITS-SR          PIC 999.
006900          05 SWAT-SR .
007000          07 SWA-SR          PIC XXXX.
007100          07 TRN-SR           PIC 99.
007200          05 PLNT-BL-CD-SR    PIC 9.
007300    03 FILLER                  PIC XX.
007400 FD  FILE-P1
007500 LABEL RECORD IS STANDARD
007600 CODE-SET IS GBCD.
007700 01  REC-P1                    PIC X(132).
007800 WORKING-STORAGE SECTION.
007900 77  RETURN-COUNT PIC 9(8) VALUE ZERO.
008000 77  OUTPUT-COUNT PIC 9(8) VALUE ZERO.
008100 77  MASTER-COUNT                PIC 9(8) VALUE ZERO.
008200 77  OUT-COUNT                  PIC 9(8) VALUE ZERO.
008300 77  SORT-COUNT                PIC 9(8) VALUE ZERO.
008400 77  DISPLAY-COUNT             PIC 9(8) VALUE ZERO.
008500 77  MASTER-EOF-SW             PIC 9 VALUE ZERO.
008600 77  FIRST-SW                  PIC 9 VALUE 1.
008700 77  SUM-SW                   PIC 9 VALUE ZERO.
008800 77  DET-SW                   PIC 9 VALUE ZERO.
008900 77  VEG-SW                  PIC 9 VALUE ZERO.
009000 77  COMP-SW                 PIC 9 VALUE ZERO.
009100 77  SORT-EOF-SW             PIC 9 VALUE ZERO.
009200 77  LINE-CNT                PIC 99 VALUE ZERO.
009300 77  CNT1 PIC 9(8) VALUE ZERO.
009400 77  PG-CNT                   PIC 9(5) VALUE ZERO.
009500 77  STRATUM-P-HLD           PIC 9999 VALUE ZERO.
009600 77  COMP-AREA-HLD          PIC XXXX VALUE SPACE.
009700 77  RNG-SITE-P-HLD         PIC X(11) VALUE SPACE.
009800 77  SDRP-HEAD PIC X(8) VALUE SPACE.
009900 01  SUB PIC 9.
010000 01  SUB-RD REDEFINES SUB PIC X.
010100 01  TOTAL-AREA.
010200    03 HITS-LIT1-TOT PIC 9(5).
010300    03 HITS-LIT2-TOT PIC 9(5).
010400    03 HITS-VEG-TOT PIC 9(5).
010500    03 HITS-ALL-TOT PIC 9(5).
010600    03 HITS-BAS-GP.
010700          05 HITS-ALL-CAN OCCURS 4 TIMES PIC 9(5).
010800    03 HITS-VEG-GP.
010900          05 HITS-VEG-CAN OCCURS 4 TIMES PIC 9(5).

```

011000 03 HITS-LIN-GP.  
011100 05 HITS-LIN-CAN OCCURS 5 TIMES PIC 9(5).  
011200 03 PCT-LIT1-HLD PIC 9(3).  
011300 03 PCT-LIT2-HLD PIC 9(3).  
011400 03 PCT-HLD PIC 9(3)V99.  
011500 03 PCT-HLD-RED REDEFINES PCT-HLD.  
011600 05 PCT-FILL PIC 99.  
011700 05 PCT-HLD-RD PIC 999.  
011800 03 HITS-HLD PIC 9(5).  
011900 03 HITS-HLD-2 PIC 9(5).  
012000 03 HITS-HLD-3 PIC 9(5).  
012100 01 SORT-REC-HLD.  
012200 03 SDRP-SRH.  
012300 05 ST-SRH PIC XX.  
012400 05 DS-SRH PIC 99.  
012500 05 RA-SRH PIC 99.  
012600 05 PLU-SRH PIC 99.  
012700 03 RNG-SITE-SRH PIC X(11).  
012800 03 COMP-AREA-SRH PIC XXXX.  
012900 03 STRATUM-SRH PIC 9999.  
013000 03 GRP-SRH .  
013100 05 REC-TYP-SRH PIC 9.  
013200 05 CANOPY-SRH PIC 9.  
013300 05 PLANT-GRND-SRH.  
013400 07 GRND-SRH PIC 9.  
013500 07 FILL-SRH PIC X(6).  
013600 05 HITS-SRH PIC 999.  
013700 05 SWAT-SRH .  
013800 07 SWA-SRH PIC XXXX.  
013900 07 TRN-SRH PIC 99.  
014000 05 PLNT-BL-CD-SRH PIC 9.  
014100 03 FILLER PIC XX.  
014200 01 REC-D4-HLD.  
014300 03 SDRP-D4-HLD PIC X(8).  
014400 03 RNG-SITE-D4-HLD PIC X(11).  
014500 03 COMP-AREA-D4-HLD PIC XXXX.  
014600 03 STRATUM-D4-HLD PIC 9999.  
014700 03 GRND-CVR-PCT-LIT1 PIC 999.  
014800 03 GRND-CVR-PCT-LIT2 PIC 999.  
014900 03 FILLER PIC XXX.  
015000 01 CURRENT-DATE.  
015100 05 CURRENT-YEAR PIC XX.  
015200 05 CURRENT-MONTH PIC XX.  
015300 05 CURRENT-DAY PIC XX.  
015400 01 HOLD-AREA.  
015500 03 ADST-DIST-RA-PLU-CDS-H.  
015600 05 ADST-CD-H PIC XX.  
015700 05 DIST-CD-H PIC XX.  
015800 05 RA-CD-H PIC XX.  
015900 05 PLU-CD-H PIC XX.  
016000 03 DE-CD-EXPLN-8827-DECE-H.  
016100 05 DIST-NAM-H PIC X(12).  
016200 05 RA-NAM-H PIC X(13).  
016300 05 PLU-NAM-H PIC X(15).  
016400 03 DE-CD-NAM-8823-DEC-H.  
016500 05 ST-NAM-H PIC X(10).  
016600 05 FILLER PIC X(14).

```

016700 01 BASAL-TABLE.
016800 03 FILLER PIC X(14) VALUE "BARE GROUND".
016900 03 FILLER PIC X(14) VALUE "PERSIS LITTER".
017000 03 FILLER PIC X(14) VALUE "NONPER LITTER".
017100 03 FILLER PIC X(14) VALUE "GRAVEL".
017200 03 FILLER PIC X(14) VALUE "COBBLE".
017300 03 FILLER PIC X(14) VALUE "STONE".
017400 03 FILLER PIC X(14) VALUE "BEDROCK".
017500 01 BASAL-TAB REDEFINES BASAL-TABLE.
017600 03 BASAL-TB PIC X(14) OCCURS 7 TIMES.
017700 01 PAG-HDR-1.
017800 03 FILLER PIC X(13) VALUE "REPORT DATE: ".
017900 03 HEADER-DATE.
018000 05 MO-HDR PIC 99.
018100 05 FILLER PIC X VALUE "/".
018200 05 DA-HDR PIC 99.
018300 05 FILLER PIC X VALUE "/".
018400 05 YR-HDR PIC 99.
018500 03 FILLER PIC X(28) VALUE SPACES.
018600 03 FILLER PIC X(23) VALUE "U.S.D.I. BUREAU OF LAND".
018700 03 FILLER PIC X(11) VALUE " MANAGEMENT".
018800 03 FILLER PIC X(22) VALUE SPACES.
018900 03 FILLER PIC X(15) VALUE "PCN: P120 ".
019000 03 FILLER PIC X(6) VALUE " PAGE ".
019100 03 PAGE-NO PIC ZZ,ZZ9.
019200 01 PAG-HDR-3.
019300 03 FILLER PIC X(20) VALUE " STATE ".
019400 03 STATE-NAME PIC X(10).
019500 03 FILLER PIC X(24) VALUE SPACES.
019600 03 FILLER PIC X(21) VALUE "ECOLOGICAL SITE INVEN".
019700 03 FILLER PIC X(04) VALUE "TORY".
019800 03 FILLER PIC X(53) VALUE SPACES.
019900 01 PAG-HDR-4.
020000 03 FILLER PIC X(20) VALUE " DISTRICT ".
020100 03 DIST-NAME PIC X(12).
020200 03 FILLER PIC X(100) VALUE SPACES.
020300 01 PAG-HDR-5.
020400 03 FILLER PIC X(20) VALUE " RESOURCE AREA ".
020500 03 RA-NAME PIC X(13).
020600 03 FILLER PIC X(19) VALUE SPACES.
020700 03 FILLER PIC X(20) VALUE "GROUND AND VEGETATIO".
020800 03 FILLER PIC X(20) VALUE "N COVER ".
020900 03 FILLER PIC X(44) VALUE SPACES.
021000 01 PAG-HDR-6.
021100 03 FILLER PIC X(20) VALUE " PLANNING UNIT ".
021200 03 PLU-NAME PIC X(15).
021300 03 FILLER PIC X(97) VALUE SPACES.
021400 01 PAG-HDR-7.
021500 03 FILLER PIC X(4) VALUE SPACES.
021600 03 FILLER PIC X(16) VALUE "RANGE SITE ".
021700 03 RNG-SITE-P PIC X(11).
021800 03 FILLER PIC X(28) VALUE SPACES.
021900 03 FILLER PIC X(8) VALUE "STRATUM ".
022000 03 STRATUM-P PIC 9999.
022100 03 RMK-HDR-7 PIC X(12) VALUE SPACE.
022200 03 FILLER PIC X(24) VALUE SPACE.
022300 03 FILLER PIC X(10) VALUE " ".

```

```

022400      03  CNT-TRN-P          PIC XXX VALUE SPACE.
022500      03  FILLER            PIC X(12)  VALUE "          ".
022600 01  PAG-HDR-8.
022700      03  FILLER            PIC X(20)  VALUE "    COMPARISON AREA ".
022800      03  COMP-AREA-P       PIC X(4).
022900      03  FILLER            PIC X(108) VALUE SPACES.
023000 01  HEADING-LINE-10.
023100      03  FILLER PIC X(20)  VALUE "          *****".
023200      03  FILLER PIC X(20)  VALUE " BASAL ***** *".
023300      03  FILLER PIC X(20)  VALUE "**** CANOPY 1 **** ".
023400      03  FILLER PIC X(20)  VALUE "    **** CANOPY 2 ****".
023500      03  FILLER PIC X(20)  VALUE "*      **** CANOPY 3".
023600      03  FILLER PIC X(20)  VALUE " ****          O ".
023700      03  FILLER PIC X(12)  VALUE "V E R A L L ".
023800 01  HEADING-LINE-11.
023900      03  RMK-HDR-11 PIC X(12)  VALUE "          ".
024000      03  FILLER PIC X(8)   VALUE "          ".
024100      03  FILLER PIC X(20)  VALUE "    C O V E R          ".
024200      03  FILLER PIC X(20)  VALUE "          C O V E R    ".
024300      03  FILLER PIC X(20)  VALUE "          C O V E R".
024400      03  FILLER PIC X(20)  VALUE "          C O V".
024500      03  FILLER PIC X(20)  VALUE " E R          ".
024600      03  FILLER PIC X(12)  VALUE "C O V E R ".
024700 01  HEADING-LINE-12.
024800      03  RMK-HDR-12 PIC X(12)  VALUE "          ".
024900      03  FILLER PIC X(8)   VALUE "          ".
025000      03  FILLER PIC X(20)  VALUE "    VEG      GND          ".
025100      03  FILLER PIC X(20)  VALUE "          VEG      GND    ".
025200      03  FILLER PIC X(20)  VALUE "          VEG      GND".
025300      03  FILLER PIC X(20)  VALUE "          VEG      GND".
025400      03  FILLER PIC X(20)  VALUE " GND          TOTAL  V".
025500      03  FILLER PIC X(12)  VALUE "EG      GND ".
025600 01  HEADING-LINE-13.
025700      03  RMK-HDR-13 PIC X(12)  VALUE "          ".
025800      03  FILLER PIC X(8)   VALUE "    HITS".
025900      03  FILLER PIC X(20)  VALUE "    %      %          ".
026000      03  FILLER PIC X(20)  VALUE "HITS %      %          ".
026100      03  FILLER PIC X(20)  VALUE "    HITS %      % ".
026200      03  FILLER PIC X(20)  VALUE "          HITS %      ".
026300      03  FILLER PIC X(20)  VALUE "    %      HITS          ".
026400      03  FILLER PIC X(12)  VALUE "%      %          ".
026500 01  DATA-LINE.
026600      03  CVR-CAT-P          PIC X(14).
026700      03  LVL-GP-P          OCCURS 4 TIMES.
026800          05  HITS-CNPY-P     PIC ZZ,ZZ9.
026900          05  FILLER          PIC XX.
027000          05  PCT1-CNPY-P     PIC ZZZ.
027100          05  FILLER          PIC X(4).
027200          05  PCT2-CNPY-P     PIC ZZZ.
027300          05  FILLER          PIC X(6).
027400      03  HITS-TOT-P         PIC ZZ,ZZZ.
027500      03  FILLER            PIC XXX VALUE SPACES.
027600      03  PCT1-TOT-P        PIC ZZZ.
027700      03  FILLER            PIC X(5) VALUE SPACES.
027800      03  PCT2-TOT-P        PIC ZZZ.
027900      03  FILLER            PIC XX VALUE SPACES.
028000 01  HEADER-VEG-CVR.

```

```

028100      03  FILLER          PIC X(12) VALUE " VEGETATION ".
028200      03  FILLER          PIC X(120) VALUE SPACES.
028300 01  HEADER-CATEGORY-PCT.
028400      03  FILLER          PIC X(12) VALUE "  CATEGORY  ".
028500      03  FILLER          PIC X(120) VALUE SPACES.
028600 01  HEADER-SYMBOL.
028700      03  FILLER          PIC X(12) VALUE "PLANT SYMBOL".
028800      03  FILLER          PIC X(120) VALUE SPACES.
028900 01  HEADER-CATEGORIES.
029000      03  FILLER          PIC X(12) VALUE "CATEGORIES".
029100      03  FILLER          PIC X(120) VALUE SPACES.
029200 01  SDRPS-SK.
029300      05  ST-DIST-RA-PLU-KEY.
029400          10  ADST-KEY          PIC XX.
029500          10  DIST-KEY         PIC XX.
029600          10  RA-KEY           PIC XX.
029700          10  PLU-KEY          PIC XX.
029800      05  SWAT-KEY.
029900          07  SWA-KEY          PIC X(4).
030000          07  TRN-KEY         PIC XX.
030100 01  DISP-REC.
030200      03  DISP-STRAT      PIC 9999.
030300      03  FILLER          PIC X(9)  VALUE SPACE.
030400      03  TRNS-DISPLAY   OCCURS 17 TIMES.
030500          05  DISP-TRN      PIC X(6).
030600          05  FILLER          PIC X.
030700 01  DISP-REC-RD REDEFINES DISP-REC  PIC X(132).
030800 01  DISP-REC-2.
030900      03  FILLER          PIC XXXX.
031000      03  FILLER          PIC X(9)  VALUE SPACE.
031100      03  TRNS-DISPLAY-2 OCCURS 17 TIMES.
031200          05  DISP-TRN-2    PIC X(6).
031300          05  FILLER          PIC X.
031400 01  DISP-REC-2-RD REDEFINES DISP-REC-2  PIC X(132).
031500 01  P-SPACE  PIC X(132)  VALUE SPACE.
031600  PROCEDURE DIVISION.
031700 000-SORT SECTION.
031800 010-OPEN.
031900      OPEN INPUT FILE-D3.
032000      ACCEPT CURRENT-DATE FROM DATE.
032100      MOVE CURRENT-YEAR TO YR-HDR.
032200      MOVE CURRENT-MONTH TO MO-HDR.
032300      MOVE CURRENT-DAY TO DA-HDR.
032400 020-SORT.
032500      SORT SORT-FILE
032600          ASCENDING SDRP-SR RNG-SITE-SR
032700          DESCENDING COMP-AREA-SR
032800          ASCENDING STRATUM-SR
032900          REC-TYP-SR PLNT-BL-CD-SR PLANT-GRND-SR CANOPY-SR
033000      INPUT  PROCEDURE IS 050-BUILD-SORT
033100      OUTPUT PROCEDURE IS 100-SUM-REPORT.
033200      CLOSE FILE-D4 FILE-P1.
033300      FINISH DIC-DE.
033400      STOP RUN.
033500 050-BUILD-SORT SECTION.
033600 060-READ.
033700      READ FILE-D3 AT END

```



```

033800      GO TO 090-EXIT.
033900      ADD 1 TO CNT1.
034000*     IF SWA-D3 NOT = "D125" GO TO 060-READ.
034100      MOVE REC-D3 TO SORT-REC.
034200      RELEASE SORT-REC.
034300      GO TO 060-READ.
034400 090-EXIT.
034500      EXIT.
034600 100-SUM-REPORT SECTION.
034700 110-OPEN.
034800      MOVE ZERO TO TOTAL-AREA.
034900      CLOSE FILE-D3.
035000      DISPLAY "RECORDS INPUT= " CNT1.
035100      READY DIC-DE.
035200      OPEN OUTPUT FILE-D4.
035300      OPEN OUTPUT FILE-P1.
035400 140-RETURN.
035500      RETURN SORT-FILE
035600          AT END MOVE 1 TO SORT-EOF-SW
035700          GO TO 410-SUMMARY.
035800      ADD 1 TO SORT-COUNT.
035900*     DISPLAY "SR= " SORT-REC.
036000      IF REC-TYP-SR = 2 GO TO 200-PASS.
036100      IF SUM-SW = 1
036200          MOVE ZERO TO SUM-SW
036300          GO TO 400-BAS-SUM.
036400 150-SUM.
036500      ADD HITS-SR TO HITS-ALL-TOT.
036600      ADD HITS-SR TO HITS-ALL-CAN (CANOPY-SR).
036700      IF PLNT-BL-CD-SR = 1
036800          ADD HITS-SR TO HITS-VEG-TOT
036900          ADD HITS-SR TO HITS-VEG-CAN (CANOPY-SR)
037000      GO TO 140-RETURN.
037100      IF (FILL-SR = SPACE) AND
037200          (GRND-SR = 2 OR 3) NEXT SENTENCE ELSE
037300          GO TO 140-RETURN.
037400      IF COMP-AREA-SR = SPACE
037500          ADD HITS-SR TO HITS-LIT1-TOT
037600          ELSE ADD HITS-SR TO HITS-LIT2-TOT
037700          MOVE COMP-AREA-SR TO COMP-AREA-HLD.
037800      GO TO 140-RETURN.
037900 200-PASS.
038000      MOVE 1 TO SUM-SW.
038100      IF FIRST-SW = 1
038200          MOVE ZERO TO FIRST-SW
038300          MOVE SDRP-SR TO ST-DIST-RA-PLU-KEY
038400          MOVE SWAT-SR TO SWAT-KEY
038500          MOVE SORT-REC TO SORT-REC-HLD
038600          PERFORM 800-OFLO THRU 800-EXIT.
038700 300-CONTROL-BREAK.
038800      IF SORT-EOF-SW = 1
038900          GO TO 400-BAS-SUM.
039000      IF (SDRP-SR NOT = SDRP-SRH)
039100          MOVE 1 TO COMP-SW
039200          GO TO 400-BAS-SUM.
039300      IF (RNG-SITE-SR NOT = RNG-SITE-SRH)
039400          MOVE 1 TO COMP-SW

```

```

039500      GO TO 400-BAS-SUM.
039600      IF (STRATUM-SR NOT = STRATUM-SRH)
039700          GO TO 400-BAS-SUM.
039800      IF (PLNT-BL-CD-SR NOT = PLNT-BL-CD-SRH)
039900          MOVE 1 TO VEG-SW
040000          GO TO 400-BAS-SUM.
040100      IF (PLANT-GRND-SR NOT = PLANT-GRND-SRH)
040200          MOVE 1 TO DET-SW
040300          GO TO 400-BAS-SUM.
040400      ADD HITS-SR TO HITS-LIN-CAN (CANOPY-SR).
040500      GO TO 140-RETURN.
040600 400-BAS-SUM.
040700      IF (SDRP-SR NOT = SDRP-SRH)
040800          OR (RNG-SITE-SR NOT = RNG-SITE-SRH)
040900          MOVE 1 TO COMP-SW.
041000 410-SUMMARY.
041100      MOVE SPACE TO DATA-LINE.
041200      IF FILL-SRH = SPACE
041300          MOVE BASAL-TB (GRND-SRH) TO CVR-CAT-P
041400          ELSE
041500          MOVE PLANT-GRND-SRH TO CVR-CAT-P.
041600      MOVE ZERO TO SUB.
041700 500-LP-CAN.
041800      ADD 1 TO SUB.
041900      IF SUB > 4
042000          GO TO 600-CK-BRK.
042100      MOVE HITS-LIN-CAN (SUB) TO HITS-HLD.
042200      MOVE HITS-ALL-CAN (SUB) TO HITS-HLD-2.
042300      MOVE HITS-HLD TO HITS-CNPY-P (SUB).
042400      ADD HITS-HLD TO HITS-LIN-CAN (5).
042500      IF HITS-HLD > ZERO
042600          COMPUTE PCT-HLD ROUNDED = HITS-HLD / HITS-HLD-2
042700          MOVE PCT-HLD-RD TO PCT2-CNPY-P (SUB).
042800      IF PLNT-BL-CD-SRH = 0
042900          GO TO 500-LP-CAN.
043000      MOVE HITS-VEG-CAN (SUB) TO HITS-HLD-3.
043100      IF HITS-HLD > ZERO
043200          COMPUTE PCT-HLD ROUNDED = HITS-HLD / HITS-HLD-3
043300          MOVE PCT-HLD-RD TO PCT1-CNPY-P (SUB).
043400      GO TO 500-LP-CAN.
043500 600-CK-BRK.
043600      MOVE ZERO TO PCT-HLD.
043700      MOVE HITS-LIN-CAN (5) TO HITS-HLD.
043800      MOVE HITS-LIN-CAN (5) TO HITS-TOT-P.
043900      IF HITS-HLD > ZERO
044000          COMPUTE PCT-HLD ROUNDED = HITS-HLD / HITS-ALL-TOT
044100          MOVE PCT-HLD-RD TO PCT2-TOT-P.
044200*      IF (PLNT-BL-CD-SRH = 0)
044300*          AND (GRND-SRH = 2)
044400*          MOVE PCT-HLD-RD TO PCT-HLD-PL.
044500*      IF (PLNT-BL-CD-SRH = 0)
044600*          AND (GRND-SRH = 3)
044700*          MOVE PCT-HLD-RD TO PCT-HLD-NL.
044800      IF (PLNT-BL-CD-SRH = 1) AND
044900          (HITS-HLD > ZERO)
045000          COMPUTE PCT-HLD ROUNDED = HITS-HLD / HITS-VEG-TOT
045100          MOVE PCT-HLD-RD TO PCT1-TOT-P.

```

```

045200     IF LINE-CNT > 48
045300         PERFORM 800-OFLO THRU 800-EXIT.
045400     IF PG-CNT = 1
045500         DISPLAY DATA-LINE.
045600     WRITE REC-P1 FROM DATA-LINE AFTER 1 LINE.
045700     ADD 1 TO LINE-CNT.
045800     IF DET-SW = 1
045900         GO TO 700-CLEAR.
046000     IF VEG-SW = 1 AND PG-CNT = 1
046100         DISPLAY P-SPACE
046200         DISPLAY HEADER-VEG-CVR
046300         DISPLAY HEADER-CATEGORY-PCT
046400         DISPLAY HEADER-SYMBOL
046500         DISPLAY P-SPACE.
046600     IF VEG-SW = 1
046700         WRITE REC-P1 FROM P-SPACE AFTER 1 LINE
046800         WRITE REC-P1 FROM HEADER-VEG-CVR AFTER 1 LINE
046900         WRITE REC-P1 FROM HEADER-CATEGORY-PCT AFTER 1 LINE
047000         WRITE REC-P1 FROM HEADER-SYMBOL AFTER 1 LINE
047100         WRITE REC-P1 FROM P-SPACE AFTER 1 LINE
047200         ADD 5 TO LINE-CNT
047300         GO TO 700-CLEAR.
047400     IF PG-CNT = 1
047500         DISPLAY P-SPACE.
047600     WRITE REC-P1 FROM P-SPACE AFTER 1 LINE.
047700     ADD 1 TO LINE-CNT.
047800     MOVE SPACE TO DATA-LINE.
047900     MOVE "TOTAL VEG" TO CVR-CAT-P.
048000     MOVE HITS-VEG-CAN (1) TO HITS-CNPY-P (1).
048100     MOVE HITS-VEG-CAN (2) TO HITS-CNPY-P (2).
048200     MOVE HITS-VEG-CAN (3) TO HITS-CNPY-P (3).
048300     MOVE HITS-VEG-CAN (4) TO HITS-CNPY-P (4).
048400     MOVE HITS-VEG-TOT TO HITS-TOT-P.
048500     IF PG-CNT = 1
048600         DISPLAY DATA-LINE.
048700     WRITE REC-P1 FROM DATA-LINE AFTER 1 LINE.
048800     ADD 1 TO LINE-CNT.
048900     MOVE SPACE TO DATA-LINE.
049000     MOVE "TOTAL-BOTH" TO CVR-CAT-P.
049100     MOVE HITS-ALL-CAN (1) TO HITS-CNPY-P (1).
049200     MOVE HITS-ALL-CAN (2) TO HITS-CNPY-P (2).
049300     MOVE HITS-ALL-CAN (3) TO HITS-CNPY-P (3).
049400     MOVE HITS-ALL-CAN (4) TO HITS-CNPY-P (4).
049500     MOVE HITS-ALL-TOT TO HITS-TOT-P.
049600     IF PG-CNT = 1
049700         DISPLAY SPACES
049800         DISPLAY DATA-LINE
049900         DISPLAY HEADER-CATEGORIES.
050000     WRITE REC-P1 FROM DATA-LINE AFTER 2 LINE.
050100     WRITE REC-P1 FROM HEADER-CATEGORIES AFTER 1 LINE.
050200     ADD 3 TO LINE-CNT.
050300     MOVE SPACE TO DATA-LINE.
050400     IF HITS-LIT1-TOT > ZERO
050500         COMPUTE PCT-HLD ROUNDED = HITS-LIT1-TOT / HITS-ALL-TOT
050600         MOVE PCT-HLD-RD TO PCT-LIT1-HLD
050700         ELSE MOVE ZERO TO PCT-LIT1-HLD.
050800     IF HITS-LIT2-TOT > ZERO

```

```

050900      COMPUTE PCT-HLD ROUNDED = HITS-LIT2-TOT / HITS-ALL-TOT
051000      MOVE PCT-HLD-RD TO PCT-LIT1-HLD PCT-LIT2-HLD.
051100      MOVE SPACE TO REC-D4-HLD.
051200      MOVE SDRP-SRH TO SDRP-D4-HLD.
051300      MOVE RNG-SITE-SRH TO RNG-SITE-D4-HLD.
051400      MOVE COMP-AREA-HLD TO COMP-AREA-D4-HLD.
051500      MOVE STRATUM-SRH TO STRATUM-D4-HLD.
051600      MOVE PCT-LIT1-HLD TO GRND-CVR-PCT-LIT1.
051700      MOVE PCT-LIT2-HLD TO GRND-CVR-PCT-LIT2.
051800      IF (HITS-LIT2-TOT > ZERO)
051900          MOVE PCT-LIT2-HLD TO GRND-CVR-PCT-LIT1
052000          MOVE ZERO TO GRND-CVR-PCT-LIT2.
052100      WRITE REC-D4 FROM REC-D4-HLD.
052200      MOVE SPACE TO COMP-AREA-HLD.
052300      ADD 1 TO OUTPUT-COUNT.
052400 700-CLEAR.
052500      IF SORT-EOF-SW = 1 GO TO 900-EOJ.
052600      MOVE SPACE TO DATA-LINE.
052700      MOVE SDRP-SR TO ST-DIST-RA-PLU-KEY.
052800      MOVE SWAT-SR TO SWAT-KEY.
052900      MOVE SORT-REC TO SORT-REC-HLD.
053000      MOVE ZEROS TO HITS-LIN-GP.
053100      MOVE ZEROS TO HITS-HLD HITS-HLD-2 HITS-HLD-3.
053200      IF (DET-SW = 1)
053300          OR (VEG-SW = 1)
053400          MOVE ZERO TO DET-SW VEG-SW
053500          GO TO 300-CONTROL-BREAK.
053600      MOVE ZERO TO HITS-ALL-TOT HITS-VEG-TOT.
053700      MOVE ZERO TO PCT-LIT1-HLD.
053800      IF COMP-SW = 1
053900          MOVE ZERO TO PCT-LIT2-HLD COMP-SW.
054000      MOVE ZERO TO HITS-LIT1-TOT HITS-LIT2-TOT.
054100      MOVE ZERO TO GRND-CVR-PCT-LIT1.
054200      MOVE ZERO TO GRND-CVR-PCT-LIT2.
054300      MOVE ZERO TO HITS-BAS-GP HITS-VEG-GP.
054400      PERFORM 800-OFLO THRU 800-EXIT.
054500      GO TO 150-SUM.
054600 800-OFLO.
054700      IF SDRP-SRH = SDRP-HEAD
054800          GO TO 810-EXIT.
054900      MOVE SDRP-SRH TO SDRP-HEAD.
055000      MOVE 0003 TO DE-NO-8801-DEC.
055100      MOVE SDRP-SRH TO DE-CD-8822-DEC.
055200      FIND ANY CODE-DEC.
055300      IF DB-STATUS NOT = ZERO
055400          MOVE ST-SRH TO STATE-NAME
055500          MOVE DS-SRH TO DIST-NAME
055600          MOVE RA-SRH TO RA-NAME
055700          MOVE PLU-SRH TO PLU-NAME
055800          GO TO 810-EXIT.
055900      GET CODE-DEC.
056000      MOVE DE-CD-NAM-8823-DEC TO DE-CD-NAM-8823-DEC-H.
056100      FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
056200      IF DB-STATUS NOT = ZERO
056300          MOVE ST-SRH TO STATE-NAME
056400          MOVE DS-SRH TO DIST-NAME
056500          MOVE RA-SRH TO RA-NAME

```

```

056600     MOVE PLU-SRH TO PLU-NAME
056700     GO TO 810-EXIT.
056800     GET CODE-EXPL-DECE.
056900     MOVE DE-CD-EXPLN-8827-DECE TO DE-CD-EXPLN-8827-DECE-H.
057000     MOVE ST-NAM-H TO STATE-NAME.
057100     MOVE RA-NAM-H TO RA-NAME.
057200     MOVE DIST-NAM-H TO DIST-NAME.
057300     MOVE PLU-NAM-H TO PLU-NAME.
057400     GO TO 810-EXIT.
057500 802-CK-SDR.
057700 810-EXIT.
057800     EXIT.
057900 820-HEADING.
058000     MOVE 12 TO LINE-CNT.
058100     ADD 1 TO PG-CNT.
058200     MOVE PG-CNT TO PAGE-NO.
058300     MOVE RNG-SITE-SRH TO RNG-SITE-P.
058400     MOVE STRATUM-SRH TO STRATUM-P.
058500     IF (STRATUM-P = STRATUM-P-HLD)
058600         AND (RNG-SITE-P = RNG-SITE-P-HLD)
058700         MOVE " (CONTINUED)" TO RMK-HDR-7
058800         MOVE " VEGETATION " TO RMK-HDR-11
058900         MOVE "  CATEGORY  " TO RMK-HDR-12
059000         MOVE "PLANT SYMBOL" TO RMK-HDR-13
059100         ELSE MOVE STRATUM-P TO STRATUM-P-HLD
059200         MOVE RNG-SITE-P TO RNG-SITE-P-HLD
059300         MOVE SPACE TO RMK-HDR-11
059400         MOVE "  COVER      " TO RMK-HDR-12
059500         MOVE "  CATEGORY   " TO RMK-HDR-13
059600         MOVE SPACE TO RMK-HDR-7.
059700     MOVE COMP-AREA-SRH TO COMP-AREA-P.
059800     IF PG-CNT = 1
059900         DISPLAY PAG-HDR-1
060000         DISPLAY PAG-HDR-3
060100         DISPLAY PAG-HDR-4
060200         DISPLAY PAG-HDR-5
060300         DISPLAY PAG-HDR-6
060400         DISPLAY PAG-HDR-7.
060500     WRITE REC-P1 FROM PAG-HDR-1 AFTER ADVANCING PAGE.
060600     WRITE REC-P1 FROM PAG-HDR-3 AFTER ADVANCING 1 LINE.
060700     WRITE REC-P1 FROM PAG-HDR-4 AFTER ADVANCING 1 LINE.
060800     WRITE REC-P1 FROM PAG-HDR-5 AFTER ADVANCING 1 LINE.
060900     WRITE REC-P1 FROM PAG-HDR-6 AFTER ADVANCING 1 LINE.
061000     WRITE REC-P1 FROM PAG-HDR-7 AFTER ADVANCING 1 LINE.
061100     IF COMP-AREA-P NOT = SPACE
061200         ADD 1 TO LINE-CNT
061300         WRITE REC-P1 FROM PAG-HDR-8 AFTER ADVANCING 1 LINE
061400         IF PG-CNT = 1
061500             DISPLAY PAG-HDR-8.
061600     IF PG-CNT = 1
061700         DISPLAY SPACES
061800         DISPLAY HEADING-LINE-10
061900         DISPLAY HEADING-LINE-11
062000         DISPLAY HEADING-LINE-12
062100         DISPLAY HEADING-LINE-13
062200         DISPLAY P-SPACE.
062300     WRITE REC-P1 FROM HEADING-LINE-10 AFTER ADVANCING 2 LINES.

```

```

062400 WRITE REC-P1 FROM HEADING-LINE-11 AFTER ADVANCING 1 LINES.
062500 WRITE REC-P1 FROM HEADING-LINE-12 AFTER ADVANCING 1 LINES.
062600 WRITE REC-P1 FROM HEADING-LINE-13 AFTER ADVANCING 1 LINES.
062700 WRITE REC-P1 FROM P-SPACE AFTER ADVANCING 1 LINES.
062800 800-EXIT.
062900 EXIT.
063000 900-EOJ.
063100 DISPLAY "PAGES PRINTED= " PAGE-NO.
063200 FINISH.
063300 IF DB-STATUS NOT = ZERO
063400 DISPLAY "DB CANNOT FINISH STATUS=" DB-STATUS.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES710P.
000300* SOIL SURFACE FACTOR REPORT (P13).
000400*
000500 AUTHOR . JOER & ANITA TURNMIRE & RON BAKER.
000600 DATE-WRITTEN. OCTOBER 1979.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400 SELECT SSF-SWA-FILE ASSIGN D4
001500 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
001600 ACCESS IS SEQUENTIAL.
001700 SELECT SSF-SWA-WORK-FILE ASSIGN D1
001800 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
001900 ACCESS IS SEQUENTIAL.
002000 SELECT SSF-VAL-RAT-FILE ASSIGN D2
002100 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002200 ACCESS IS SEQUENTIAL.
002300 SELECT SORT-FILE
002400 ASSIGN S1.
002500 SELECT SORT-FILE-1
002600 ASSIGN S1.
002700 SELECT SSF-STRAT-FILE ASSIGN D3
002800 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002900 SELECT PRINT-FILE ASSIGN P1-PRINTER
003000 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
003100 DATA DIVISION.
003200 SUB-SCHEMA SECTION.
003300 DB CODVAL2 WITHIN BLMDIC.
003400 FILE SECTION.
003500 FD SSF-SWA-WORK-FILE
003600 LABEL RECORD STANDARD
003700 CODE-SET IS GBCD.
003800 01 SSF-SWA-WORK-REC.
003900 03 FILLER PIC X(20).
004000 03 SSF-RK PIC 9.
004100 03 FILLER PIC X(45).
004200 FD SSF-SWA-FILE
004300 LABEL RECORD STANDARD
004400 CODE-SET IS GBCD.
004500 01 SSF-SWA-REC.

```

004600 05 SDRP-D1.  
004700 10 ST-D1 PIC XX.  
004800 10 DIS-D1 PIC XX.  
004900 10 RA-D1 PIC XX.  
005000 10 PU-D1 PIC XX.  
005100 05 ALOT-D1 PIC 9(4).  
005200 05 PAST-D1 PIC 99.  
005300 05 SWA-D1 PIC X(4).  
005400 05 TRAN-D1 PIC XX.  
005500 05 REC-KEY-D1 PIC 9.  
005600 05 FILLER PIC X(7).  
005700 05 CMPR-ID-D1 PIC X.  
005800 05 SSF-GP-D1.  
005900 10 SSF-D1 PIC 99 OCCURS 7 TIMES.  
006000 05 FILLER PIC X(23).  
006100 FD SSF-VAL-RAT-FILE  
006200 LABEL RECORD STANDARD  
006300 CODE-SET IS GBCD.  
006400 01 SSF-RAT-REC PIC X(48).  
006500 SD SORT-FILE-1.  
006600 01 SORT-REC-1.  
006700 05 SDRP-S1-1 PIC X(8).  
006800 05 FILLER PIC X(6).  
006900 05 SWA-S1-1 PIC X(4).  
007000 05 TRAN-S1-1 PIC XX.  
007100 05 FILLER PIC X(46).  
007200 SD SORT-FILE.  
007300 01 SORT-REC.  
007400 05 SDRP-S1 PIC X(8).  
007500 05 RNG-SITE-S1 PIC X(11).  
007600 05 COMP-AREA-S1 PIC X.  
007700 05 STRAT-S1 PIC 9(4).  
007800 05 SWA-S1 PIC X(4).  
007900 05 TRAN-S1 PIC XX.  
008000 05 SSF-GP-S1.  
008100 10 SSF-S1 PIC 99 OCCURS 7 TIMES.  
008200 05 SSF-GP-S1-RD REDEFINES SSF-GP-S1.  
008300 10 SSF-S1-RD PIC XX OCCURS 7 TIMES.  
008400 05 FILLER PIC X(4).  
008500 FD SSF-STRAT-FILE  
008600 LABEL RECORD STANDARD  
008700 CODE-SET IS GBCD.  
008800 01 SSF-STRAT-REC.  
008900 05 SDRP-D3 PIC X(8).  
009000 05 RNGE-SITE-D3 PIC X(11).  
009100 05 COMP-AREA-D3 PIC X(4).  
009200 05 STRAT-D3 PIC 9(4).  
009300 05 STRAT-AVG-D3 PIC 99 OCCURS 7 TIMES.  
009400 05 STRAT-AVG-TOT-D3 PIC 999.  
009500 05 FILLER PIC X(4).  
009600 FD PRINT-FILE  
009700 LABEL RECORD STANDARD  
009800 CODE-SET IS GBCD.  
009900 01 PRINT-REC PIC X(132).  
010000 WORKING-STORAGE SECTION.  
010200 77 SWA-IN-CNT PIC 9(6) VALUE ZERO.  
010300 77 SWAT-CNT PIC 9999 VALUE ZERO.

```

010400 77 CNT1 PIC 99999 VALUE ZERO.
010500 77 STRAT-SSF-TOT-HLD PIC 9999V99 VALUE ZERO.
010600 77 STRAT-AVG-D3-HLD PIC 99V9.
010700 77 SSF-TOT-HLD PIC 999 VALUE ZERO.
010800 77 SWA-IN PIC 9(6) VALUE ZERO.
010900 77 NO-MATCH PIC 9(6) VALUE ZERO.
011000 77 RCDS-RLS PIC 9(6) VALUE ZERO.
011100 77 SSF-RTN PIC 9(6) VALUE ZERO.
011200 77 PNO PIC 9(6) VALUE ZERO.
011300 77 LCNTR PIC 99 VALUE ZERO.
011400 77 RCDS-RETURN PIC 9(6) VALUE ZERO.
011500 77 I PIC 9 VALUE ZERO.
011600 77 RANK-TOT PIC 9(3) VALUE ZERO.
011700 77 RAT-TOT PIC 9(3)V9 VALUE ZERO.
011800 COPY DBSTATUS OF TPCOBOLIB.
011900 01 EOF PIC X(4).
012000 88 DONE VALUE "DONE".
012100 01 COMPARE-HLD.
012200 04 SDRP-SWAT-HLD.
012300 06 SDRP-HLD PIC X(8).
012400 06 SWA-HLD PIC X(4).
012500 06 TRAN-HLD PIC 9(2).
012600 04 STRAT-HLD PIC 9(4).
012700 04 RNG-SITE-HLD PIC X(11).
012800 04 COMP-SWA PIC X(4).
012900 01 COL-RATS.
013000 02 C-RATS OCCURS 7 TIMES PIC 9(3)V9.
013100 01 RANK-TABL.
013200 03 RANK-T.
013300 05 FILLER PIC X(14) VALUE
013400 "14141414151415".
013500 03 RANK-TAB REDEFINES RANK-T OCCURS 7 TIMES PIC 9(2).
013600 01 NO-TRANSECTS-TABL.
013700 04 NO-TRANSECTS OCCURS 7 TIMES PIC 9(3).
014000 01 SSF-RAT-REC-HLD.
014100 05 SDRP-SWAT-SSF-HLD.
014200 10 SRDP-SSF-HLD PIC X(8).
014300 10 SWA-SSF-HLD PIC X(4).
014400 10 TRAN-SSF-HLD PIC 9(2).
014500 05 RNG-SITE-SSF-HLD PIC X(11).
014600 05 STRAT-SSF-HLD PIC 9(4).
014700 05 PERCENT-SSF-HLD PIC 9(3).
014800 05 ALOT-SSF-HLD PIC 9(4).
014900 05 PAST-SSF-HLD PIC 99.
015000 05 COMP-AREA-SSF-HLD PIC X.
015100 05 CLIM-ADJ-FCTR-SSF-HLD PIC 99V999.
015200 05 FILLER PIC X(4).
015300 01 DATE-WORK.
015400 02 SYSTEM-DATE PIC 9(6).
015500 02 TODAYS-DATE REDEFINES SYSTEM-DATE.
015600 04 YY PIC 99.
015700 04 MM PIC 99.
015800 04 DD PIC 99.
015900 01 HOLD-AREA.
016000 05 SDRP-H.
016100 10 ST-H PIC XX.
016200 10 DS-H PIC XX.

```



016300 10 RA-H PIC XX.  
016400 10 PU-H PIC XX.  
016500 05 DE-CD-EXPLN-8827-DECE-H.  
016600 10 DIST-NAM-H PIC X(12).  
016700 10 RA-NAM-H PIC X(13).  
016800 10 PLU-NAM-H PIC X(15).  
016900 05 DE-CD-NAM-8823-DEC-H.  
017000 10 ST-NAM-H PIC X(10).  
017100 05 FILLER PIC X(14).  
017200 01 PAG-HDR-1.  
017300 03 FILLER PIC X(13) VALUE "REPORT DATE: ".  
017400 03 HEADER-DATE.  
017500 05 MO-HDR PIC 99.  
017600 05 FILLER PIC X VALUE "/".  
017700 05 DA-HDR PIC 99.  
017800 05 FILLER PIC X VALUE "/".  
017900 05 YR-HDR PIC 99.  
018000 03 FILLER PIC X(28) VALUE SPACES.  
018100 03 FILLER PIC X(23) VALUE "U.S.D.I. BUREAU OF LAND".  
018200 03 FILLER PIC X(11) VALUE " MANAGEMENT".  
018300 03 FILLER PIC X(22) VALUE SPACES.  
018400 03 FILLER PIC X(15) VALUE "PCN: P130 ".  
018500 03 FILLER PIC X(6) VALUE " PAGE ".  
018600 03 PAGE-NO PIC ZZ,ZZ9.  
018700 01 PAG-HDR-3.  
018800 05 FILLER PIC X(20) VALUE  
018900 " STATE ".  
019000 05 STATE-NAME PIC X(10).  
019100 05 FILLER PIC X(24) VALUE SPACES.  
019200 05 FILLER PIC X(21) VALUE "ECOLOGICAL SITE INVEN".  
019300 05 FILLER PIC X(04) VALUE "TORY".  
019400 05 FILLER PIC X(53) VALUE SPACES.  
019500 01 PAG-HDR-4.  
019600 05 FILLER PIC X(20) VALUE " DISTRICT ".  
019700 05 DIST-NAME PIC X(12).  
019800 05 FILLER PIC X(100) VALUE SPACES.  
019900 01 PAG-HDR-5.  
020000 05 FILLER PIC X(20) VALUE " RESOURCE AREA ".  
020100 05 RA-NAME PIC X(13).  
020200 05 FILLER PIC X(22) VALUE SPACES.  
020300 05 FILLER PIC X(20) VALUE "SOIL SURFACE FACTORS".  
020400 05 FILLER PIC X(57) VALUE SPACES.  
020500 01 PAG-HDR-6.  
020600 05 FILLER PIC X(20) VALUE " PLANNING UNIT ".  
020700 05 PLU-NAME PIC X(15).  
020800 05 FILLER PIC X(97) VALUE SPACES.  
020900 01 PAG-HDR-7.  
021000 05 FILLER PIC X(14) VALUE  
021100 " RANGE SITE".  
021200 05 FILLER PIC X(6) VALUE SPACES.  
021300 05 RNGE-NAME PIC X(11).  
021400 05 FILLER PIC X(28) VALUE SPACES.  
021500\* 05 FILLER PIC X(7) VALUE "STRATUM".  
021600 05 FILLER PIC X(7) VALUE " ".  
021700 05 FILLER PIC X VALUE SPACE.  
021800\* 05 STRAT-NUM PIC 9(4).  
021900 05 FILLER PIC XXXX VALUE SPACE.

```

022000      05  FILLER      PIC X(61) VALUE SPACES.
022100 01  PAG-HDR-8.
022200      05  FILLER      PIC X(4) VALUE SPACES.
022300      05  FILLER      PIC X(15) VALUE
022400          "COMPARISON AREA".
022500      05  FILLER      PIC X VALUE SPACE.
022600      05  COMP-CD      PIC X(4).
022700      05  FILLER      PIC X(108) VALUE SPACES.
022800 01  PAG-HDR-9.
022900      05  FILLER      PIC X(16) VALUE "    STRATUM    ".
023000*     05  FILLER      PIC X(16) VALUE "    ".
023100      05  FILLER      PIC XXXX VALUE "SWA/".
023200      05  FILLER      PIC X(8) VALUE "TRANSECT".
023300      05  FILLER      PIC X(4) VALUE SPACES.
023400      05  FILLER      PIC X(7) VALUE SPACES.
023500      05  FILLER      PIC X(4) VALUE "SOIL".
023600      05  FILLER      PIC X(6) VALUE SPACES.
023700      05  FILLER      PIC X(7) VALUE "SURFACE".
023800      05  FILLER      PIC XXX VALUE SPACES.
023900      05  FILLER      PIC X(7) VALUE "SURFACE".
024000      05  FILLER      PIC X(4) VALUE SPACES.
024100      05  FILLER      PIC X(8) VALUE "PDSTLING".
024200      05  FILLER      PIC X(5) VALUE SPACES.
024300      05  FILLER      PIC X(4) VALUE "FLOW".
024400      05  FILLER      PIC X(7) VALUE SPACES.
024500      05  FILLER      PIC X(4) VALUE "RILL".
024600      05  FILLER      PIC X(6) VALUE SPACES.
024700      05  FILLER      PIC X(7) VALUE "GULLIES".
024800      05  FILLER      PIC X(5) VALUE SPACES.
024900      05  FILLER      PIC XXX VALUE "SSF".
025000      05  FILLER      PIC X(13) VALUE SPACES.
025100 01  PAG-HDR-10.
025200      05  FILLER      PIC X(39) VALUE SPACES.
025300      05  FILLER      PIC X(4) VALUE "MVMT".
025400      05  FILLER      PIC X(7) VALUE SPACES.
025500      05  FILLER      PIC X(6) VALUE "LITTER".
025600      05  FILLER      PIC X(5) VALUE SPACES.
025700      05  FILLER      PIC X(4) VALUE "ROCK".
025800      05  FILLER      PIC X(17) VALUE SPACES.
025900      05  FILLER      PIC X(7) VALUE "PATTERN".
026000      05  FILLER      PIC X(47) VALUE SPACES.
026100 01  DATA-LINE-1.
026200*     05  FILLER      PIC X(15) VALUE SPACES.
026300      05  FILLER      PIC XXXX VALUE SPACES.
026400      05  STRAT-NUM      PIC 9(4).
026500      05  FILLER      PIC X(8) VALUE SPACES.
026600      05  SWA-NUM        PIC X(4).
026700      05  FILLER      PIC X(3) VALUE SPACES.
026800      05  TRANSECT-NUM  PIC XX.
026900      05  FILLER      PIC X(7) VALUE SPACE.
027000      05  DUMMY.
027100      06  VAL-RAT-TABLE OCCURS 7 TIMES.
027200          10  VAL-RAT      PIC Z(9)99.
027300      05  VAL-RAT-99 REDEFINES DUMMY.
027400          10  VAL-99      PIC X(11) OCCURS 7 TIMES.
027500      05  FILLER      PIC X(8) VALUE SPACES.
027600      05  SSF-TOT       PIC Z99.

```

```

027700      05  FILLER    PIC X(16) VALUE SPACE.
027800 01  DATA-LINE-2.
027900      05  FILLER    PIC X(8) VALUE "STRATUM ".
028000      05  STRAT-AVG-NUM    PIC 9999.
028100      05  FILLER    PIC X(16) VALUE " AVERAGE ".
028200      05  FILLER    PIC XXXX    VALUE SPACE.
028300      05  STRAT-AVG-TABLE OCCURS 7 TIMES.
028400          10  STRAT-AVG    PIC Z(9)99.
028500      05  FILLER    PIC X(8) VALUE SPACES.
028600      05  STRAT-SSF-TOT    PIC Z99.
028700      05  FILLER    PIC X(12) VALUE SPACE.
028800 01  P-ERR.
028900      03  FILLER    PIC X(18) VALUE "SOIL SURFACE DATA ".
029000      03  FILLER    PIC X(17) VALUE "MISSING FOR THIS ".
029100      03  FILLER    PIC X(11) VALUE "TRANSECT  ".
029200      03  FILLER    PIC X(86) VALUE SPACE.
029300 01  P-SPACE PIC X(132) VALUE SPACE.
029400 PROCEDURE DIVISION.
029500 SORTING-1 SECTION.
029600 005-SORT.
029700      SORT SORT-FILE-1 ON ASCENDING KEY SDRP-S1-1
029800          SWA-S1-1 TRAN-S1-1
029900          INPUT PROCEDURE IS INSORT-1
030000          OUTPUT PROCEDURE IS OUTSORT-1.
030100 006-GO-TO.
030200      GO TO 010-SORT.
030300 INSORT-1 SECTION.
030400 007-IN.
030500      OPEN INPUT SSF-SWA-WORK-FILE.
030600 007-RD.
030700      READ SSF-SWA-WORK-FILE AT END GO TO 007-EXIT.
030800      IF SSF-RK NOT = 1
030900          GO TO 007-RD.
031000      ADD 1 TO CNT1.
031100*      IF CNT1 > 2000 GO TO 007-EXIT.
031200      MOVE SSF-SWA-WORK-REC TO SORT-REC-1.
031300      RELEASE SORT-REC-1.
031400      GO TO 007-RD.
031500 007-EXIT.
031600      CLOSE SSF-SWA-WORK-FILE.
031700 OUTSORT-1 SECTION.
031800 008-OUT.
031900      OPEN OUTPUT SSF-SWA-FILE.
032000 009-RETURN.
032100      RETURN SORT-FILE-1 AT END GO TO 009-EXIT.
032200      MOVE SORT-REC-1 TO SSF-SWA-REC.
032300      WRITE SSF-SWA-REC.
032400      GO TO 009-RETURN.
032500 009-EXIT.
032600      CLOSE SSF-SWA-FILE.
032700 SORTING-2 SECTION.
032800 010-SORT.
032900      SORT SORT-FILE ON ASCENDING KEY SDRP-S1
033000          RNG-SITE-S1 STRAT-S1 SWA-S1 TRAN-S1
033100          INPUT PROCEDURE IS FIND-STRATUM
033200          OUTPUT PROCEDURE IS WRITE-REPORT.
033300      STOP RUN.

```

```

033400 FIND-STRATUM SECTION.
033500 100-CONTROL.
033600     OPEN INPUT SSF-SWA-FILE
033700         INPUT SSF-VAL-RAT-FILE.
033800     MOVE SPACE TO EOF.
033900     PERFORM 190-READ-SSF-SWA UNTIL REC-KEY-D1 = 1.
034000     READ SSF-VAL-RAT-FILE
034100         AT END DISPLAY "BAD SWA FILE"
034200         STOP RUN.
034300     MOVE SSF-RAT-REC TO SSF-RAT-REC-HLD.
034400     PERFORM 110-PROCESS UNTIL DONE.
034500     CLOSE SSF-SWA-FILE SSF-VAL-RAT-FILE.
034600     GO TO 199-EXIT.
034700 110-PROCESS.
034800     IF SDRP-SWAT-HLD > SDRP-SWAT-SSF-HLD
034900         PERFORM 180-READ-SWA UNTIL SDRP-SWAT-HLD
035000             NOT > SDRP-SWAT-SSF-HLD.
035100     IF SDRP-SWAT-HLD < SDRP-SWAT-SSF-HLD
035200         DISPLAY "NO VB STRATUM RECORD FOR KEY-SWA-TRANS "
035300             SDRP-SWAT-HLD
035400         ADD 1 TO NO-MATCH
035500         MOVE ZERO TO REC-KEY-D1
035600         PERFORM 190-READ-SSF-SWA UNTIL REC-KEY-D1 = 1 OR DONE.
035700     IF SDRP-SWAT-HLD = SDRP-SWAT-SSF-HLD
035800         MOVE SDRP-D1 TO SDRP-S1
035900         MOVE RNG-SITE-SSF-HLD TO RNG-SITE-S1
036000         MOVE COMP-AREA-SSF-HLD TO COMP-AREA-S1
036100         MOVE STRAT-SSF-HLD TO STRAT-S1
036200         MOVE SWA-SSF-HLD TO SWA-S1
036300         MOVE TRAN-SSF-HLD TO TRAN-S1
036400         MOVE SSF-GP-D1 TO SSF-GP-S1
036500         RELEASE SORT-REC
036600         ADD 1 TO RCDS-RLS
036700         MOVE ZERO TO REC-KEY-D1
036800         PERFORM 190-READ-SSF-SWA UNTIL REC-KEY-D1 = 1 OR DONE
036900         IF SDRP-SWAT-SSF-HLD NOT = HIGH-VALUES
037000             PERFORM 180-READ-SWA.
037100 180-READ-SWA.
037200     READ SSF-VAL-RAT-FILE
037300         AT END MOVE HIGH-VALUES TO SDRP-SWAT-SSF-HLD.
037400     IF SDRP-SWAT-SSF-HLD NOT = HIGH-VALUES
037500         MOVE SSF-RAT-REC TO SSF-RAT-REC-HLD.
037600 190-READ-SSF-SWA.
037700     READ SSF-SWA-FILE
037800         AT END MOVE "DONE" TO EOF.
037900     IF NOT DONE
038000         ADD 1 TO SWA-IN-CNT
038100         MOVE SDRP-D1 TO SDRP-HLD
038200         MOVE SWA-D1 TO SWA-HLD
038300         MOVE TRAN-D1 TO TRAN-HLD.
038500 199-EXIT.
038600     EXIT.
038700 WRITE-REPORT SECTION.
038800 200-CONTROL.
038900     OPEN OUTPUT PRINT-FILE SSF-STRAT-FILE.
039000     READY DIC-DE.
039100     ACCEPT SYSTEM-DATE FROM DATE.

```

```

039200     MOVE YY TO YR-HDR.
039300     MOVE MM TO MO-HDR.
039400     MOVE DD TO DA-HDR.
039500     MOVE SPACE TO EOF SDRP-SWAT-HLD.
039600     RETURN SORT-FILE
039700         AT END DISPLAY "BAD SORT"
039800         STOP RUN.
039900     ADD 1 TO RCDS-RETURN.
040000     PERFORM 295-PHD.
040100     PERFORM 220-MOVE-KEY.
040200     MOVE ZERO TO RANK-TOT RAT-TOT COL-RATS
040300         NO-TRANSECTS-TABL.
040400     PERFORM 210-PROCESS UNTIL DONE.
040500     PERFORM 280-STRAT-SUMMARY THRU 285-PASS.
040600*     DISPLAY "SWA IN      = " SWA-IN-CNT.
040700*     DISPLAY "SWA-IN      = " SWA-IN.
040800 210-END.
040900     DISPLAY "NO VB MATCH = " NO-MATCH.
041000     DISPLAY "RCDS RELEASE= " RCDS-RLS.
041100     DISPLAY "RCDS RETURN = " RCDS-RETURN.
041200     DISPLAY "SSF OUT      = " SSF-RTN.
041300     DISPLAY "PAGES PRINTED= " PAGE-NO.
041400     FINISH DIC-DE.
041500     CLOSE PRINT-FILE SSF-STRAT-FILE.
041600     GO TO 300-EXIT.
041700 210-PROCESS.
041800     INITIALIZE DATA-LINE-1.
041900     IF (SDRP-S1 NOT = SDRP-HLD) OR
042000         (RNG-SITE-S1 NOT = RNG-SITE-HLD) OR
042100         (STRAT-S1 NOT = STRAT-HLD)
042200         PERFORM 280-STRAT-SUMMARY THRU 285-PASS
042300     IF (SDRP-S1 NOT = SDRP-HLD) OR
042400         (RNG-SITE-S1 NOT = RNG-SITE-HLD)
042500         PERFORM 295-PHD
042600         PERFORM 220-MOVE-KEY
042700     ELSE
042800         PERFORM 220-MOVE-KEY
042900     ELSE NEXT SENTENCE.
043000     MOVE ZERO TO RANK-TOT RAT-TOT.
043100     PERFORM 230-WRITE-LINE.
043200     RETURN SORT-FILE
043300         AT END MOVE "DONE" TO EOF.
043400     IF NOT DONE
043500         ADD 1 TO RCDS-RETURN.
043600 220-MOVE-KEY.
043700     MOVE SWA-S1 TO SWA-HLD.
043800     MOVE SDRP-S1 TO SDRP-HLD.
043900     MOVE TRAN-S1 TO TRAN-HLD.
044000     MOVE STRAT-S1 TO STRAT-HLD.
044100     MOVE RNG-SITE-S1 TO RNG-SITE-HLD.
044200     IF COMP-AREA-S1 = "C"
044300         MOVE SWA-S1 TO COMP-SWA
044400     ELSE
044500         MOVE SPACE TO COMP-SWA.
044600 230-WRITE-LINE.
044700     PERFORM 240-MOVE-ADD VARYING I FROM 1 BY 1 UNTIL I > 7.
044800     MOVE ZERO TO SSF-TOT-HLD.

```

```

044900     IF RANK-TOT > ZERO
045000         COMPUTE SSF-TOT-HLD ROUNDED = 100 * RAT-TOT / RANK-TOT
045100             ON SIZE ERROR DISPLAY "ON SIZE ERROR FOR SWA TRAN "
045200                 SWA-S1 TRAN-S1
045300                     MOVE ZERO TO SSF-TOT-HLD.
045400     MOVE SSF-TOT-HLD TO SSF-TOT.
045500     MOVE TRAN-S1 TO TRANSECT-NUM.
045600     MOVE STRAT-S1 TO STRAT-NUM.
045700     IF SWA-S1 = SWA-NUM
045800         MOVE SPACE TO SWA-NUM
045900     ELSE
046000         MOVE SWA-S1 TO SWA-NUM.
046100     IF LCNTR > 53
046200         PERFORM 295-PHD.
046300     IF PNO = 1
046400         DISPLAY DATA-LINE-1.
046500     WRITE PRINT-REC FROM DATA-LINE-1 AFTER 1.
046600     IF SSF-TOT-HLD = ZERO
046700         WRITE PRINT-REC FROM P-ERR AFTER 1
046800         WRITE PRINT-REC FROM P-SPACE AFTER 1
046900         ADD 2 TO LCNTR.
047000     ADD 1 TO LCNTR.
047100     ADD 1 TO SWAT-CNT.
047200 240-MOVE-ADD.
047300     IF SSF-S1-RD (I) = "99" OR "NA"
047400         MOVE SPACE TO VAL-99 (I)
047500     ELSE
047600         MOVE SSF-S1 (I) TO VAL-RAT (I)
047700         ADD SSF-S1 (I) TO C-RATS (I) RAT-TOT
047800         ADD RANK-TAB (I) TO RANK-TOT
047900         ADD 1 TO NO-TRANSECTS (I).
048000 280-STRAT-SUMMARY.
048100     MOVE ZERO TO RAT-TOT RANK-TOT.
048200     PERFORM 290-MOVE-TOTS VARYING I FROM 1 BY 1 UNTIL I > 7.
048300     MOVE ZERO TO STRAT-SSF-TOT-HLD.
048400     IF RANK-TOT > ZERO
048500         COMPUTE STRAT-SSF-TOT-HLD ROUNDED = 100 * RAT-TOT / RANK-TOT
048600             ON SIZE ERROR DISPLAY "ON SIZE ERROR FOR STRAT SSF "
048700                 STRAT-NUM STRAT-SSF-TOT-HLD RAT-TOT RANK-TOT
048800                 MOVE ZERO TO STRAT-SSF-TOT-HLD.
048900     MOVE STRAT-SSF-TOT-HLD TO STRAT-AVG-TOT-D3 STRAT-SSF-TOT.
049000     MOVE SDRP-HLD TO SDRP-D3.
049100     MOVE RNG-SITE-HLD TO RNGE-SITE-D3.
049200     MOVE COMP-SWA TO COMP-AREA-D3.
049300     MOVE STRAT-HLD TO STRAT-D3 STRAT-AVG-NUM.
049400     WRITE SSF-STRAT-REC.
049500     ADD 1 TO SSF-RTN.
049600     IF SWAT-CNT = 1 GO TO 285-PASS.
049700     IF PNO = 1
049800         DISPLAY DATA-LINE-2.
049900     WRITE PRINT-REC FROM DATA-LINE-2 AFTER 1.
050000     WRITE PRINT-REC FROM P-SPACE AFTER 2.
050100     ADD 3 TO LCNTR.
050200 285-PASS.
050300     IF LCNTR > 48 PERFORM 295-PHD.
050400     MOVE ZERO TO NO-TRANSECTS-TABL COL-RATS SWAT-CNT.
050500 290-MOVE-TOTS.

```

```

050600      COMPUTE STRAT-AVG-D3-HLD ROUNDED = C-RATS (I) /
050700          NO-TRANSECTS (I).
050800      ADD .5 STRAT-AVG-D3-HLD GIVING STRAT-AVG-D3 (I).
050900      MOVE STRAT-AVG-D3 (I) TO STRAT-AVG (I).
051000      ADD STRAT-AVG-D3-HLD TO RAT-TOT.
051100      IF STRAT-AVG-D3 (I) NOT = ZERO
051200          ADD RANK-TAB (I) TO RANK-TOT.
051300 295-PHD.
051400      ADD 1 TO PNO.
051500*      IF PNO > 5 GO TO 210-END.
051600      MOVE PNO TO PAGE-NO.
051700      IF PNO = 1
051800          DISPLAY PAG-HDR-1.
051900      WRITE PRINT-REC FROM PAG-HDR-1 AFTER PAGE.
052000      IF SDRP-S1 NOT = SDRP-HLD
052100          PERFORM 296-DATA-BASE.
052200      IF PNO = 1
052300          DISPLAY PAG-HDR-3
052400          DISPLAY PAG-HDR-4
052500          DISPLAY PAG-HDR-5
052600          DISPLAY PAG-HDR-6.
052700      WRITE PRINT-REC FROM PAG-HDR-3 AFTER 1.
052800      WRITE PRINT-REC FROM PAG-HDR-4 AFTER 1.
052900      WRITE PRINT-REC FROM PAG-HDR-5 AFTER 1.
053000      WRITE PRINT-REC FROM PAG-HDR-6 AFTER 1.
053100      MOVE RNG-SITE-S1 TO RNGE-NAME.
053200*      MOVE STRAT-S1 TO STRAT-NUM.
053300      IF PNO = 1
053400          DISPLAY PAG-HDR-7.
053500      WRITE PRINT-REC FROM PAG-HDR-7 AFTER 1.
053600      IF COMP-AREA-S1 NOT = SPACE
053700          MOVE SWA-S1 TO COMP-CD
053800      WRITE PRINT-REC FROM PAG-HDR-8 AFTER 1
053900          IF PNO = 1
054000              DISPLAY PAG-HDR-8.
054100      IF PNO = 1
054200          DISPLAY SPACES
054300          DISPLAY PAG-HDR-9
054400          DISPLAY PAG-HDR-10
054500          DISPLAY SPACES.
054600      WRITE PRINT-REC FROM PAG-HDR-9 AFTER 2.
054700      WRITE PRINT-REC FROM PAG-HDR-10 AFTER 1.
054800      MOVE SPACES TO PRINT-REC.
054900      WRITE PRINT-REC AFTER 1.
055000      MOVE 10 TO LCNTR.
055100 296-DATA-BASE.
055200      MOVE 0003 TO DE-NO-8801-DEC.
055300      MOVE SDRP-S1 TO DE-CD-8822-DEC SDRP-H.
055400      FIND ANY CODE-DEC.
055500      IF DB-STATUS NOT = ZERO
055600          DISPLAY "BAD STATE CODE " SDRP-S1
055700          MOVE DB-STATUS TO DATA-BASE-STATUS
055800          DISPLAY "DB STATUS IS " DATA-BASE-STATUS.
055900      GET CODE-DEC.
056000      IF DB-STATUS NOT = ZERO
056100          DISPLAY "BAD STATE NAME GET".
056200      MOVE DE-CD-NAM-8823-DEC TO STATE-NAME.

```

```

056300     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
056400     IF DB-STATUS NOT = ZERO
056500         DISPLAY "BAD IST,RA,PLU" CALL "ABOR".
056600     GET CODE-EXPL-DECE.
056700     MOVE DE-CD-EXPLN-8827-DECE TO DE-CD-EXPLN-8827-DECE-H.
056800     MOVE RA-NAM-H TO RA-NAME.
056900     MOVE DIST-NAM-H TO DIST-NAME.
057000     MOVE PLU-NAM-H TO PLU-NAME.
057100 300-EXIT.
057200     EXIT.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES715M.
000300*         CREATES A STRATUM AVERAGE FOR INPUT TO ES720M.
000400*
000500 AUTHOR. BILL FORTE, RON BAKER.
000600 DATE-WRITTEN. NOVEMBER 30, 1979.
000700 DATE-COMPILED. TODAY.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400     SELECT FILE-D1
001500         ASSIGN TO D1
001600         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
001700         ACCESS IS SEQUENTIAL.
001800     SELECT FILE-D2
001900         ASSIGN TO D2
002000         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002100         ACCESS IS SEQUENTIAL.
002200 DATA DIVISION.
002300 FILE SECTION.
002400 FD FILE-D1
002500     CODE-SET IS GBCD
002600     LABEL RECORDS ARE STANDARD.
002700 01 REC-D1.
002800     05 IN-KEY.
002900         10 IN-ADMIN-UNIT             PIC X(8).
003000         10 IN-RANGE-SITE             PIC X(11).
003100     05 IN-STRATUM                     PIC X(4).
003200     05 IN-PLANT-CODE                   PIC X(7).
003300     05 IN-STRAT-AVG-NON                 PIC 9(5)V9(5).
003400     05 IN-SWA                           PIC X(4).
003500     05 IN-STRAT-AVG-COMP                 PIC 9(5)V9(5).
003600 FD FILE-D2
003700     CODE-SET IS GBCD
003800     LABEL RECORDS ARE STANDARD.
003900 01 REC-D2.
004000     05 OT-KEY.
004100         10 OT-ST-DIST-RA-PLU           PIC X(8).
004200         10 OT-RANGE-SITE               PIC X(11).
004300     05 OT-STRATUM                       PIC X(4).
004400     05 OT-PLANT-CODE                     PIC X(7).
004500     05 OT-STRAT-AVG-NON                   PIC 9(5)V9(5).
004600     05 OT-FILL1 REDEFINES OT-STRAT-AVG-NON.

```



```

004700      10  OT-VEG-DENSITY          PIC 9(6).
004800      10  FILLER                   PIC X(4).
004900      05  OT-SWA                    PIC X(4).
005000      05  OT-STRAT-AVG-COMP        PIC 9(5)V9(5).
005100      05  OT-FILL2 REDEFINES OT-STRAT-AVG-COMP.
005200      10  OT-VEG-DENSITY-COMP      PIC 9(6).
005300      10  FILLER                   PIC X(4).
005400      05  FILLER                   PIC X(12).
005500 WORKING-STORAGE SECTION.
005600 77 INPUT-EOF          PIC X VALUE SPACE.
005700 77 CNT1  PIC 9(8)      VALUE ZERO.
005800 77 CNT2  PIC 9(8)      VALUE ZERO.
005900 77 CNT3  PIC 9(8)      VALUE ZERO.
006000 77 CNT4  PIC 9(8)      VALUE ZERO.
006100 77 CNT5  PIC 9(8)      VALUE ZERO.
006200 77 TEMP-TOTAL-SPECIES PIC 9(5)V9(5) VALUE ZEROES.
006300 77 STRAT-AVG-COMP-HLD PIC 9(5)V9(5) VALUE ZEROES.
006400 01 REC-WORK  VALUE SPACES.
006500      05  W3-KEY.
006600      10  W3-ADMIN-UNIT          PIC X(8).
006700      10  W3-RANGE-SITE          PIC X(11).
006800      05  W3-STRATUM              PIC X(4).
006900      05  W3-PLANT-CODE          PIC X(7).
007000      05  W3-STRAT-AVG-NON      PIC 9(5)V9(5).
007100      05  W3-FILL1 REDEFINES W3-STRAT-AVG-NON.
007200      10  W3-VEG-DENSITY        PIC 9(6).
007300      10  FILLER                 PIC X(4).
007400      05  W3-SWA                  PIC X(4).
007500      05  W3-STRAT-AVG-COMP      PIC 9(5)V9(5).
007600      05  W3-FILL2 REDEFINES W3-STRAT-AVG-COMP.
007700      10  W3-VEG-DENSITY-COMP    PIC 9(6).
007800      10  W3-SPACE                PIC X(4).
007900      05  W3-TOTAL-SPECIES      PIC 9(5)V9(5).
008000      05  FILLER                 PIC XX.
008100 PROCEDURE DIVISION.
008200 000-HOUSEKEEPING.
008300      OPEN INPUT FILE-D1.
008400      OPEN OUTPUT FILE-D2.
008500 100-READ.
008600      READ FILE-D1 AT END
008700      GO TO 400-EOJ.
008800      IF IN-KEY = W3-KEY
008900      GO TO 110-SUM.
009000 105-CLEAR.
009100      MOVE ZERO TO TEMP-TOTAL-SPECIES .
009200      MOVE IN-KEY TO W3-KEY.
009300 110-SUM.
009400      IF IN-SWA = SPACE
009500      GO TO 100-READ.
009600      IF IN-PLANT-CODE = SPACE
009700      ADD 1 TO CNT1
009800      ADD IN-STRAT-AVG-NON TO TEMP-TOTAL-SPECIES
009900      GO TO 100-READ.
010000 150-MOVE.
010100      MOVE REC-D1 TO REC-WORK.
010200      ADD 1 TO CNT2.
010300      MOVE IN-STRAT-AVG-NON TO STRAT-AVG-COMP-HLD.

```

```

010400 200-READ.
010500     READ FILE-D1 AT END
010600     GO TO 400-EOJ.
010700     IF IN-KEY NOT = W3-KEY
010800     GO TO 105-CLEAR.
010900     IF IN-SWA NOT = SPACE
011000     GO TO 150-MOVE.
011100     IF IN-PLANT-CODE NOT = W3-PLANT-CODE
011200     ADD 1 TO CNT3
011300     GO TO 200-READ.
011400     MOVE IN-STRATUM TO W3-STRATUM.
011500     MOVE STRAT-AVG-COMP-HLD TO W3-STRAT-AVG-COMP.
011600     MOVE IN-STRAT-AVG-NON TO W3-STRAT-AVG-NON.
011700     DIVIDE TEMP-TOTAL-SPECIES INTO W3-STRAT-AVG-COMP
011800     GIVING W3-TOTAL-SPECIES.
011900     WRITE REC-D2 FROM REC-WORK.
012000     ADD 1 TO CNT4.
012100     GO TO 200-READ.
012200 400-EOJ.
012300     CLOSE FILE-D1 FILE-D2.
012400     DISPLAY "IN COMP STRATUMS= " CNT1
012500     DISPLAY "IN COMP PLANTS= " CNT2.
012600     DISPLAY "UNMATCHED TO COMP PLANTS= " CNT3.
012700     DISPLAY "OUTPUT RECORDS= " CNT4.
012800     IF CNT4 = ZERO
012900         DISPLAY
013000         "THERE WERE NO COMPARISON AREAS ON THIS RUN".
013100     STOP RUN.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES717M.
000300*     CREATES A STRATUM AVERAGE FOR INPUT TO ES720M.
000400*
000500 AUTHOR. BILL FORTE, RON BAKER.
000600 INSTALLATION. USBLM.
000700 DATE-WRITTEN. NOVEMBER 30, 1979.
000800 DATE-COMPILED. TODAY.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.
001200 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001300 INPUT-OUTPUT SECTION.
001400 FILE-CONTROL.
001500     SELECT STRAT-FILE
001600     ASSIGN TO D1
001700     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
001800     ACCESS IS SEQUENTIAL.
001900     SELECT STRAT-AVG-FILE
002000     ASSIGN TO D2
002100     ORGANIZATION IS GFRC SEQUENTIAL WITH SSF
002200     ACCESS IS SEQUENTIAL.
002300 DATA DIVISION.
002400 FILE SECTION.
002500 FD STRAT-FILE
002600     CODE-SET IS GBCD
002700     LABEL RECORDS ARE STANDARD.
002800 01 STRAT-REC.

```

```

002900      05  IN-ADMIN-UNIT          PIC X(8).
003000      05  IN-STRATUM             PIC X(4).
003100      05  FILLER                 PIC X.
003200      05  IN-PLANT-CODE          PIC X(7).
003300      05  IN-VEG-DENSITY        PIC 9(6).
003400      05  FILLER                 PIC X(3).
003500      05  IN-RANGE-SITE         PIC X(11).
003600      05  IN-SWA                PIC X(4).
003700      05  FILLER                 PIC X(10).
003800 FD   STRAT-AVG-FILE
003900      CODE-SET IS GBCD
004000      LABEL RECORDS ARE STANDARD.
004100 01   STRAT-AVG-REC.
004200      05  OT-KEY.
004300          10  OT-ST-DIST-RA-PLU    PIC X(8).
004400          10  OT-RANGE-SITE        PIC X(11).
004500      05  OT-STRATUM             PIC X(4).
004600      05  OT-PLANT-CODE          PIC X(7).
004700      05  OT-STRAT-AVG-NON       PIC 9(5)V9(5).
004800      05  OT-FILL1 REDEFINES OT-STRAT-AVG-NON.
004900          10  OT-VEG-DENSITY      PIC 9(6).
005000          10  FILLER              PIC X(4).
005100      05  OT-SWA                PIC X(4).
005200      05  OT-STRAT-AVG-COMP       PIC 9(5)V9(5).
005300      05  OT-FILL2 REDEFINES OT-STRAT-AVG-COMP.
005400          10  OT-VEG-DENSITY-COMP  PIC 9(6).
005500          10  FILLER              PIC X(4).
005600 WORKING-STORAGE SECTION.
005700 77   INPUT-EOF                 PIC X VALUE SPACE.
005800 77   CNT1 PIC 9(8) VALUE ZERO.
005900 77   CNT2 PIC 9(8) VALUE ZERO.
006000 01   WORK-RECORD VALUE SPACES.
006100      05  W3-ADMIN-UNIT          PIC X(8).
006200      05  W3-RANGE-SITE         PIC X(11).
006300      05  W3-STRATUM             PIC X(4).
006400      05  W3-PLANT-CODE          PIC X(7).
006500      05  W3-STRAT-AVG-NON       PIC 9(5)V9(5).
006600      05  W3-FILL1 REDEFINES W3-STRAT-AVG-NON.
006700          10  W3-VEG-DENSITY      PIC 9(6).
006800          10  ZERO-FILL1          PIC X(4).
006900      05  W3-SWA                PIC X(4).
007000      05  W3-STRAT-AVG-COMP       PIC 9(5)V9(5).
007100      05  W3-FILL2 REDEFINES W3-STRAT-AVG-COMP.
007200          10  W3-VEG-DENSITY-COMP  PIC 9(6).
007300          10  ZERO-FILL2          PIC X(4).
007400 PROCEDURE DIVISION.
007500 000-HOUSEKEEPING.
007600      OPEN INPUT STRAT-FILE.
007700      OPEN OUTPUT STRAT-AVG-FILE.
007800      MOVE ZEROES TO ZERO-FILL1, ZERO-FILL2.
007900 100-READ-FOR-COMP.
008000      PERFORM 400-READ UNTIL
008100          IN-SWA NOT EQUAL SPACES OR
008200          INPUT-EOF EQUALS HIGH-VALUES.
008300 200-LOAD-COMP.
008400      ADD 1 TO CNT1.
008500      MOVE IN-ADMIN-UNIT TO W3-ADMIN-UNIT.

```

```

008600     MOVE IN-PLANT-CODE TO W3-PLANT-CODE.
008700     MOVE IN-RANGE-SITE TO W3-RANGE-SITE.
008800     MOVE IN-VEG-DENSITY TO W3-VEG-DENSITY-COMP.
008900     MOVE IN-SWA TO W3-SWA.
009000 300-READ-FOR-PLANTS.
009100     PERFORM 400-READ.
009200     IF IN-SWA NOT EQUAL SPACES
009300         GO TO 200-LOAD-COMP.
009400     IF IN-ADMIN-UNIT EQUALS W3-ADMIN-UNIT AND
009500         IN-RANGE-SITE EQUALS W3-RANGE-SITE AND
009600         IN-PLANT-CODE EQUALS W3-PLANT-CODE
009700         MOVE IN-STRATUM TO W3-STRATUM
009800         MOVE IN-VEG-DENSITY TO W3-VEG-DENSITY
009900         ADD 1 TO CNT2
010000         WRITE STRAT-AVG-REC FROM WORK-RECORD
010100         GO TO 300-READ-FOR-PLANTS.
010200     GO TO 100-READ-FOR-COMP.
010300 400-READ.
010400     READ STRAT-FILE
010500         AT END
010600         MOVE HIGH-VALUES TO INPUT-EOF.
010700     IF INPUT-EOF EQUALS HIGH-VALUES
010800         DISPLAY "COMP-PLANTS= " CNT1
010900         DISPLAY "OUTPUT RECS= " CNT2
011000         CLOSE STRAT-FILE STRAT-AVG-FILE
011100         STOP RUN.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES720M.
000300*     CREATES AN APPARENT TREND EXTRACT FILE FOR USE IN ES730P.
000400*
000500 AUTHOR. FRANK WILEY.
000600 DATE-WRITTEN. NOVEMBER 1979.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400     SELECT OPTIONAL AVG-FILE ASSIGN TO D1
001500         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600     SELECT VEG-FILE ASSIGN TO D2
001700         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800     SELECT OPTIONAL SPECIES-FILE ASSIGN TO D3
001900         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000     SELECT OPTIONAL LITTER-FILE ASSIGN TO D4
002100         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002200     SELECT OPTIONAL SSF-FILE ASSIGN TO D5
002300         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002400     SELECT APPARENT-TREND ASSIGN TO D6
002500         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002600     SELECT VIGOR-FILE ASSIGN TO D7
002700         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002800     SELECT EXTRACT-FILE ASSIGN TO D8
002900         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
003000     SELECT SPEC-WORK-FILE ASSIGN TO D9

```

003100 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
003200 SELECT SORT-FILE ASSIGN TO I2.  
003300 DATA DIVISION.  
003400 FILE SECTION.  
003500 FD VIGOR-FILE  
003600 CODE-SET GBCD  
003700 LABEL RECORD STANDARD.  
003800 01 VIGOR-RCD.  
003900 02 BLM-ADM-VIGOR PIC X(8).  
004000 02 RNGE-SITE-VIGOR PIC X(11).  
004100 02 STRATUM-VIGOR PIC X(4).  
004200 02 RCD-CODE-VIGOR PIC 9.  
004300 02 SPECIES-VIGOR PIC X(7).  
004400 02 COMP-AREA-VIGOR PIC X(4).  
004500 02 DENSITY-W-COMP PIC 9(6).  
004600 02 DENSITY-NON-COMP PIC 9(6).  
004700 02 POTEN-PROD PIC 9(5)V9(5).  
004800 02 PRESENT-PROD PIC 9(5)V9(5).  
004900 02 COMP-PCT-VIGOR PIC 9(5)V9(5).  
005000 02 FILLER PIC X.  
005100 01 TOT-RCD.  
005200 02 FILLER PIC X(31).  
005300 02 TOT-POTEN PIC 9(5)V9(5).  
005400 02 TOT-PRESENT PIC 9(5)V9(5).  
005500 02 END-16 PIC X(16).  
005600 02 FILLER PIC X(5).  
005700 FD EXTRACT-FILE  
005800 CODE-SET GBCD  
005900 LABEL RECORD STANDARD.  
006000 01 EXTRACT-RCD.  
006100 02 BLM-ADM-EXT PIC X(8).  
006200 02 RNGE-SITE-EXT PIC X(11).  
006300 02 STRATUM-EXT PIC X(4).  
006400 02 RCD-CODE-EXT PIC 9.  
006500 02 SPECIES-EXT PIC X(7).  
006600 02 PRES-SPECIES PIC X(5).  
006700 02 TOT-NUM-SPECIES PIC X(5).  
006800 02 END-31 PIC X(31).  
006900 FD AVG-FILE  
007000 CODE-SET GBCD  
007100 LABEL RECORD STANDARD.  
007200 01 AVG-RCD.  
007300 02 BLM-ADM-AVG PIC X(8).  
007400 02 RNGE-SITE-AVG PIC X(11).  
007500 02 STRATUM-AVG PIC X(4).  
007600 02 SPECIES-AVG PIC X(7).  
007700 02 PRESENT-AVG PIC 9(5)V9(5).  
007800 02 SWA-AVG PIC X(4).  
007900 02 POTENTIAL-AVG PIC 9(5)V9(5).  
008000 02 COMP-PCT-AVG PIC 9(5)V9(5).  
008100 02 FILLER PIC XX.  
008200 FD VEG-FILE  
008300 CODE-SET GBCD  
008400 LABEL RECORD STANDARD.  
008500 01 VEG-RCD.  
008600 02 BLM-ADM-VEG PIC X(8).  
008700 02 RNGE-SITE-VEG PIC X(11).

008800	02	STRATUM-VEG	PIC X(4).
008900	02	SPECIES-VEG	PIC X(7).
009000	02	PRES-DEN-VEG	PIC 9(6).
009100	02	FILLER	PIC X(4).
009200	02	SWA-VEG	PIC X(4).
009300	02	POTEN-DEN-VEG	PIC 9(6).
009400	02	FILLER	PIC X(4).
009500	FD	SPECIES-FILE	
009600		CODE-SET GBCD	
009700		LABEL RECORD STANDARD.	
009800	01	SPECIES-RCD.	
009900	02	BLM-ADM-SPECIES.	
010000	03	SDR-SPECIES	PIC X(06).
010100	03	PLU-SPECIES	PIC XX.
010200	02	FILLER	PIC X(6).
010300	02	SWAT-SPECIES.	
010400	04	SWA-SPECIES	PIC X(4).
010500	04	TRN-SPECIES	PIC XX.
010600	02	FILLER	PIC X.
010700	02	SPECIES-SPEC	PIC X(7).
010800	02	FILLER	PIC X(31).
010900	02	S-AGE-SPECIES	PIC 9(5).
011000	02	P-AGE-SPECIES	PIC 9(5).
011100	02	Y-AGE-SPECIES	PIC 9(5).
011200	02	FILLER	PIC X(103).
011300	02	RNGE-SITE-SPECIES	PIC X(11).
011400	02	STRATUM-SPECIES	PIC X(4).
011500	02	COMP-AREA-SPECIES	PIC X.
011600	02	FILLER	PIC X(3).
011700	02	PLOTS-PER-SWAT	PIC 99.
011800	FD	LITTER-FILE	
011900		CODE-SET GBCD	
012000		LABEL RECORD STANDARD.	
012100	01	LITTER-COVER-RCD.	
012200	02	BLM-ADM-LITTER	PIC X(8).
012300	02	RNGE-SITE-LITTER	PIC X(11).
012400	02	COMP-AREA-LITTER	PIC X(4).
012500	02	STRATUM-LITTER	PIC X(4).
012600	02	GRND-NON-LITTER	PIC 9(3).
012700	02	GRND-COMP-LITTER	PIC 9(3).
012800	02	FILLER	PIC X(3).
012900	FD	SSF-FILE	
013000		CODE-SET GBCD	
013100		LABEL RECORD STANDARD.	
013200	01	SSF-RCD.	
013300	02	BLM-ADM-SSF	PIC X(8).
013400	02	RNGE-SITE-SSF	PIC X(11).
013500	02	COMP-AREA-SSF	PIC X(4).
013600	02	STRATUM-SSF	PIC X(4).
013700	02	STRAT-AVG-SSF	PIC X(17).
013800	02	FILLER	PIC X(4).
013900	SD	SORT-FILE	
014000		DATA RECORD SORT-RCD.	
014100	01	SORT-RCD.	
014200	02	SORT-KEY.	
014300	03	SORT-SPEC.	
014400	04	SORT-STRAT.	

014500		05	BLM-ADM-S	PIC X(8).
014600		05	RNGE-SITE-S	PIC X(11).
014700		05	STRATUM-S	PIC X(4).
014800		04	SPECIES-S	PIC X(7).
014900		03	RCD-CODE-S	PIC 9.
015000		02	DATA-S	PIC X(41).
015100	01		SORT-TWO.	
015200		02	FILLER	PIC X(20).
015300	01		SORT-THREE.	
015400		02	FILLER	PIC X(78).
015500	01		SORT-FOUR.	
015600		02	BLM-ADM-FOUR	PIC X(8).
015700		02	RANGE-SITE-FOUR	PIC X(11).
015800		02	SPECIES-FOUR	PIC X(7).
015900		02	COMP-AREA-FOUR	PIC X.
016000		02	STRATUM-FOUR	PIC X(4).
016100		02	FILLER	PIC X(5).
016200	FD		APPARENT-TREND	
016300			CODE-SET GBCD	
016400			LABEL RECORD STANDARD.	
016500	01		TREND-RCD	PIC X(78).
016600	FD		SPEC-WORK-FILE	
016700			CODE-SET GBCD	
016800			LABEL RECORD STANDARD.	
016900	01		SPEC-WORK-REC	PIC X(30).
017000			WORKING-STORAGE SECTION.	
017100	77	TOT-SW	COMP-4	PIC 9 VALUE ZERO.
017200	77	SEARCH-SW	COMP-4	PIC 9 VALUE ZERO.
017300	77	SUB-1	COMP-4	PIC 999 VALUE 1.
017400	77	CNT1	PIC 9(8) VALUE ZERO.	
017500	77	CNT2	PIC 9(8) VALUE ZERO.	
017600	77	CNT3	PIC 9(8) VALUE ZERO.	
017700	77	CNT4	PIC 9(8) VALUE ZERO.	
017800	77	CNT5	PIC 9(8) VALUE ZERO.	
017900	77	CNT6	PIC 9(8) VALUE ZERO.	
018000	77	CNT7	PIC 9(8) VALUE ZERO.	
018100	77	CNT8	PIC 9(8) VALUE ZERO.	
018200	77	CNT9	PIC 9(8) VALUE ZERO.	
018300	77	CNT0	PIC 9(8) VALUE ZERO.	
018400	77	HOLD-SWAT	PIC X(6) VALUE HIGH-VALUE.	
018500	01		SORT-LAST.	
018600		02	BLM-ADM-L	PIC X(8).
018700		02	RNGE-SITE-L	PIC X(11).
018800		02	STRATUM-L	PIC X(4).
018900		02	RCD-CODE-L	PIC 9.
019000		02	SPECIES-L	PIC X(7).
019100		02	DATA-L	PIC X(41).
019200	01		HOLD-COUNTERS.	
019300		02	TOT-SPEC-CNT	COMP-4 PIC 9(7).
019400		02	PRESENT-SPECIES-CNT	COMP-4 PIC 9(7).
019500		02	TOT-POTEN-CNT	COMP-4 PIC 9(5)V9(5).
019600		02	TOT-PRESENT-CNT	COMP-4 PIC 9(5)V9(5).
019700		02	TOTAL-ADD	COMP-4 PIC 9(10).
019800		02	MATCHED-ADD	COMP-4 PIC 9(10).
019900		02	TOTAL-PLOTS	COMP-4 PIC 9(7).
020000		02	TOTAL-CALC	COMP-4 PIC 9(5).
020100		02	MATCHED-CALC	COMP-4 PIC 9(5).

020200	01	HOLD-SORT-SPECIES.	
020300	02	BLM-ADM-TBLE-H	PIC X(8).
020400	02	RANGE-SITE-TBLE-H	PIC X(11).
020500	02	SPECIES-TBLE-H	PIC X(7).
020600	02	COMP-AREA-TBLE-H	PIC X.
020700	02	STRATUM-TBLE-H	PIC X(4).
020800	02	FILLER	PIC X(5).
020900	01	HOLD-DATA.	
021000	02	THRU-SPEC.	
021100	03	THRU-STRAT.	
021200	04	BLM-ADM.	
021300	05	BLM-ADM-ST	PIC XX.
021400	05	BLM-ADM-DT	PIC XX.
021500	05	BLM-ADM-RA	PIC XX.
021600	05	BLM-ADM-PLU	PIC XX.
021700	04	RNGE-HOLD	PIC X(11).
021800	04	STRATUM-HOLD	PIC X(4).
021900	03	SPECIES-HOLD	PIC X(7).
022000	02	RCD-CD-HOLD	PIC 9.
022100	01	EOR-CONDITION	PIC 9 VALUE ZERO.
022200	88	END-OF-RECORDS	VALUE IS 1.
022300	01	SORT-AVG.	
022400	02	COMP-AREA-S	PIC X(4).
022500	02	STRAT-AVG-S	PIC 9(5)V9(5).
022600	02	STRAT-AVG-S1	PIC 9(5)V9(5).
022700	02	COMP-PCT-S1	PIC 9(5)V9(5).
022800	02	FILLER	PIC X(7).
022900	01	SORT-VEG REDEFINES SORT-AVG.	
023000	02	COMP-AREA-S1	PIC X(4).
023100	02	PRES-DEN-S	PIC 9(6).
023200	02	POTEN-DEN-S	PIC 9(6).
023300	02	FILLER	PIC X(25).
023400	01	SORT-SPECIES REDEFINES SORT-AVG.	
023500	02	SPY-NUM	PIC 9(5).
023600	02	SPY-AGE-TOT	PIC 9(5).
023700	02	SORT-PLOTS-PER-SWAT	PIC 99.
023800	02	MATCHED-PLOTS-PER-SWAT	PIC 99.
023900	02	SORT-SWAT	PIC X(6).
024000	02	FILLER	PIC X(21).
024100	01	SORT-LITTER REDEFINES SORT-AVG.	
024200	02	GRND-COVER-NON	PIC X(3).
024300	02	GRND-COVER-COMP	PIC X(3).
024400	02	END-35	PIC X(35).
024500	01	SORT-SSF REDEFINES SORT-AVG.	
024600	02	STRATUM-AVG-S	PIC X(17).
024700	02	END-24	PIC X(24).
024800	01	SPACE-AREA REDEFINES SORT-AVG	PIC X(41).
024900	01	SPECIES-TABL VALUE HIGH-VALUE.	
025000	02	SPECIES-LINE OCCURS 500 ASCENDING KEY IS	
025100		SPECIES-KEY INDEXED BY SUB.	
025200	03	SPECIES-KEY	PIC X(30).
025300	01	BUILD-KEY.	
025400	03	SS-KEY.	
025500	05	BLM-ADM-W	PIC X(8).
025600	05	RNGE-W	PIC X(11).
025700	05	SPEC-W	PIC X(7).
025800	03	STRAT-W	PIC X(4).



```

025900 01  SUMM-SPEC-KEY REDEFINES BUILD-KEY      PIC X(30).
026000 01  SPEC-WORK-KEY.
026100     03  SW-KEY  PIC X(26)  VALUE SPACE.
026200     03  FILLER  PIC XXXX   VALUE SPACE.
026300 PROCEDURE DIVISION.
026400 005-FIRST-SORT SECTION.
026500 010-START.
026600     SORT SORT-FILE ON ASCENDING KEY SORT-KEY
026700         INPUT PROCEDURE IS 015-AVG-VEG-EXT
026800         OUTPUT PROCEDURE IS 040-BUILD-VIGOR.
026900     GO TO 150-TABLE-SORT.
027000 015-AVG-VEG-EXT SECTION.
027100 020-OPEN.
027200     OPEN INPUT AVG-FILE
027300         VEG-FILE.
027400 025-PROCESS-AVG.
027500     READ AVG-FILE AT END
027600         MOVE SPACE TO SPACE-AREA
027700         GO TO 030-PROCESS-VEG.
027800     ADD 1 TO CNT3.
027900     MOVE BLM-ADM-AVG TO BLM-ADM-S.
028000     MOVE RNGE-SITE-AVG TO RNGE-SITE-S.
028100     MOVE STRATUM-AVG TO STRATUM-S.
028200     MOVE SPECIES-AVG TO SPECIES-S.
028300     MOVE 1 TO RCD-CODE-S.
028400     MOVE SWA-AVG TO COMP-AREA-S.
028500     MOVE PRESENT-AVG TO STRAT-AVG-S.
028600     MOVE POTENTIAL-AVG TO STRAT-AVG-S1.
028700     MOVE COMP-PCT-AVG TO COMP-PCT-S1.
028800     MOVE SORT-AVG TO DATA-S.
028900     RELEASE SORT-RCD.
029000     GO TO 025-PROCESS-AVG.
029100 030-PROCESS-VEG.
029200     READ VEG-FILE AT END
029300         MOVE SPACE TO SPACE-AREA
029400         GO TO 035-CLOSE.
029500     ADD 1 TO CNT4.
029600     MOVE BLM-ADM-VEG TO BLM-ADM-S.
029700     MOVE RNGE-SITE-VEG TO RNGE-SITE-S.
029800     MOVE STRATUM-VEG TO STRATUM-S.
029900     MOVE SPECIES-VEG TO SPECIES-S.
030000     MOVE SWA-VEG TO COMP-AREA-S.
030100     MOVE PRES-DEN-VEG TO PRES-DEN-S.
030200     MOVE POTEN-DEN-VEG TO POTEN-DEN-S.
030300     MOVE 2 TO RCD-CODE-S.
030400     MOVE SORT-VEG TO DATA-S.
030500     RELEASE SORT-RCD.
030600     GO TO 030-PROCESS-VEG.
030700 035-CLOSE.
030800     CLOSE AVG-FILE
030900         VEG-FILE.
031000 040-BUILD-VIGOR SECTION.
031100 045-OPEN.
031200     OPEN OUTPUT VIGOR-FILE.
031300 050-RETURN-SORT.
031400     RETURN SORT-FILE AT END
031500     GO TO 125-FINI-FIRST-SORT.

```

```

031600     IF RCD-CODE-S = 2
031700         GO TO 050-RETURN-SORT.
031800 055-HOLD.
031900     MOVE SORT-KEY TO HOLD-DATA.
032000     MOVE DATA-S TO SORT-AVG.
032100 060-RTN-NEXT.
032200     RETURN SORT-FILE AT END
032300         GO TO 125-FINI-FIRST-SORT.
032400     IF RCD-CODE-S = 1
032500         GO TO 055-HOLD.
032600     IF SORT-SPEC = THRU-SPEC
032700         GO TO 065-BUILD-VIGOR.
032800     GO TO 050-RETURN-SORT.
032900 065-BUILD-VIGOR.
033000     PERFORM 100-PART-I.
033100     ADD PRESENT-PROD TO TOT-PRESENT-CNT.
033200     ADD POTEN-PROD TO TOT-POTEN-CNT.
033300     MOVE 1 TO TOT-SW.
033400     MOVE DATA-S TO SORT-VEG.
033500     MOVE PRES-DEN-S TO DENSITY-NON-COMP.
033600     MOVE POTEN-DEN-S TO DENSITY-W-COMP.
033700     WRITE VIGOR-RCD.
033800 070-RTN-SORT.
033900     RETURN SORT-FILE AT END
034000         GO TO 125-FINI-FIRST-SORT.
034100     IF RCD-CODE-S = 2
034200         GO TO 070-RTN-SORT.
034300 075-EQUAL-STRAT.
034400     IF SORT-STRAT NOT = THRU-STRAT
034500         GO TO 085-TOTAL-RCD.
034600 080-GET-NEXT.
034700     PERFORM 055-HOLD.
034800     RETURN SORT-FILE AT END
034900         GO TO 125-FINI-FIRST-SORT.
035000     IF RCD-CODE-S = 1
035100         GO TO 075-EQUAL-STRAT.
035200     IF SORT-SPEC = THRU-SPEC
035300         GO TO 065-BUILD-VIGOR.
035400     GO TO 070-RTN-SORT.
035500 085-TOTAL-RCD.
035600     IF TOT-SW = 1
035700         PERFORM 115-TOT-DATA.
035800     GO TO 080-GET-NEXT.
035900 100-PART-I.
036000     MOVE BLM-ADM TO BLM-ADM-VIGOR.
036100     MOVE RNGE-HOLD TO RNGE-SITE-VIGOR.
036200     MOVE STRATUM-HOLD TO STRATUM-VIGOR.
036300     MOVE 2 TO RCD-CODE-VIGOR.
036400     MOVE SPECIES-HOLD TO SPECIES-VIGOR.
036500     MOVE COMP-AREA-S TO COMP-AREA-VIGOR.
036600     MOVE STRAT-AVG-S1 TO POTEN-PROD.
036700     MOVE STRAT-AVG-S TO PRESENT-PROD.
036800     MOVE COMP-PCT-S1 TO COMP-PCT-VIGOR.
036900 115-TOT-DATA.
037000     MOVE HIGH-VALUE TO END-16.
037100     MOVE BLM-ADM TO BLM-ADM-VIGOR.
037200     MOVE RNGE-HOLD TO RNGE-SITE-VIGOR.

```

```

037300     MOVE STRATUM-HOLD TO STRATUM-VIGOR.
037400     MOVE HIGH-VALUE TO SPECIES-VIGOR.
037500     MOVE TOT-POTEN-CNT TO TOT-POTEN.
037600     MOVE TOT-PRESENT-CNT TO TOT-PRESENT.
037700     MOVE 1 TO RCD-CODE-VIGOR.
037800     WRITE VIGOR-RCD.
037900     MOVE ZERO TO TOT-SW TOT-PRESENT-CNT TOT-POTEN-CNT.
038000 125-FINI-FIRST-SORT.
038100     IF TOT-SW = ZERO
038200         GO TO 130-CLOSE-VIGOR.
038300     PERFORM 115-TOT-DATA.
038400 130-CLOSE-VIGOR.
038500     CLOSE VIGOR-FILE.
038600 135-EXIT-FIRST.
038700     EXIT.
038800 150-TABLE-SORT SECTION.
038900 155-SORT-FOR-TABLE.
039000     SORT SORT-FILE
039100         ASCENDING KEY
039200             BLM-ADM-FOUR
039300             RANGE-SITE-FOUR
039400             SPECIES-FOUR
039500         DESCENDING KEY
039600             COMP-AREA-FOUR
039700         ASCENDING KEY
039800             STRATUM-FOUR
039900         INPUT PROCEDURE IS 160-SORT-PROCESS
040000         OUTPUT PROCEDURE IS 170-BUILD-TABLE.
040100     GO TO 190-SECOND-SORT.
040200 160-SORT-PROCESS SECTION.
040300 162-OPEN.
040400     OPEN INPUT SPECIES-FILE.
040500     OPEN OUTPUT SPEC-WORK-FILE.
040600 164-LOAD-SORT.
040700     READ SPECIES-FILE
040800         AT END
040900             MOVE SPACE TO SPACE-AREA
041000             GO TO 169-CLOSE-SPECIES-FILE.
041100     ADD 1 TO CNT9.
041200     MOVE BLM-ADM-SPECIES TO BLM-ADM-FOUR.
041300     MOVE RNGE-SITE-SPECIES TO RANGE-SITE-FOUR.
041400     MOVE SPECIES-SPEC TO SPECIES-FOUR.
041500     MOVE COMP-AREA-SPECIES TO COMP-AREA-FOUR.
041600     MOVE STRATUM-SPECIES TO STRATUM-FOUR.
041700     RELEASE SORT-FOUR.
041800     GO TO 164-LOAD-SORT.
041900 169-CLOSE-SPECIES-FILE.
042000     CLOSE SPECIES-FILE.
042100 170-BUILD-TABLE SECTION.
042200 172-FIND-C-REC.
042300     PERFORM 176-RETURN-SORT.
042400     IF END-OF-RECORDS
042500         GO TO 179-EXIT.
042600     IF COMP-AREA-FOUR NOT EQUAL "C"
042700         GO TO 172-FIND-C-REC.
042800 173-FIND-NOT-C-REC.
042900     MOVE SORT-FOUR TO HOLD-SORT-SPECIES.

```

```

043000     PERFORM 176-RETURN-SORT.
043100     IF END-OF-RECORDS
043200         GO TO 179-EXIT.
043300     IF COMP-AREA-FOUR EQUAL "C"
043400         GO TO 173-FIND-NOT-C-REC.
043500     IF BLM-ADM-FOUR NOT EQUAL BLM-ADM-TBLE-H
043600         OR RANGE-SITE-FOUR NOT EQUAL RANGE-SITE-TBLE-H
043700         OR SPECIES-FOUR NOT EQUAL SPECIES-TBLE-H
043800         GO TO 172-FIND-C-REC.
043900     MOVE STRATUM-FOUR TO STRATUM-TBLE-H.
044000 174-CREATE-TABLE.
044100     MOVE BLM-ADM-FOUR TO BLM-ADM-W.
044200     MOVE RANGE-SITE-FOUR TO RNGE-W.
044300     MOVE STRATUM-FOUR TO STRAT-W.
044400     MOVE SPECIES-FOUR TO SPEC-W.
044500     MOVE SUMM-SPEC-KEY TO SPEC-WORK-REC.
044600     WRITE SPEC-WORK-REC.
044700     ADD 1 TO CNT2.
044800 175-FIND-NEXT-NOT-C.
044900     PERFORM 176-RETURN-SORT.
045000     IF END-OF-RECORDS
045100         GO TO 179-EXIT.
045200     IF COMP-AREA-FOUR EQUAL "C"
045300         GO TO 173-FIND-NOT-C-REC.
045400     IF BLM-ADM-FOUR NOT EQUAL BLM-ADM-TBLE-H
045500         OR RANGE-SITE-FOUR NOT EQUAL RANGE-SITE-TBLE-H
045600         OR SPECIES-FOUR NOT EQUAL SPECIES-TBLE-H
045700         GO TO 172-FIND-C-REC.
045800     IF STRATUM-FOUR NOT EQUAL STRATUM-TBLE-H
045900         MOVE STRATUM-FOUR TO STRATUM-TBLE-H
046000         GO TO 174-CREATE-TABLE.
046100     GO TO 175-FIND-NEXT-NOT-C.
046200 176-RETURN-SORT.
046300     RETURN SORT-FILE
046400         AT END MOVE 1 TO EOR-CONDITION.
046500 179-EXIT.
046600     EXIT.
046700 190-SECOND-SORT SECTION.
046800 195-SORT-TWO.
046900     SORT SORT-FILE ON ASCENDING KEY SORT-KEY
047000         INPUT PROCEDURE 200-EXTRACT
047100         OUTPUT PROCEDURE 230-SUMMARIZE.
047200     GO TO 280-FINAL-SORT.
047300 200-EXTRACT SECTION.
047400 205-OPEN.
047500     CLOSE SPEC-WORK-FILE.
047600     OPEN INPUT SPECIES-FILE.
047700     OPEN INPUT SPEC-WORK-FILE.
047800     READ SPEC-WORK-FILE AT END
047900         MOVE HIGH-VALUE TO SPEC-WORK-KEY.
048000     IF SPEC-WORK-KEY NOT = HIGH-VALUE
048100         MOVE SPEC-WORK-REC TO SPEC-WORK-KEY.
048200     MOVE ZERO TO SPY-AGE-TOT
048300         TOTAL-ADD
048400         MATCHED-ADD
048500         TOTAL-PLOTS
048600         SPY-NUM

```

```

048700          TOT-SPEC-CNT
048800          PRESENT-SPECIES-CNT.
048900 210-PROCESS-SPECIES.
049000      READ SPECIES-FILE AT END
049100          MOVE SPACE TO SPACE-AREA
049200          GO TO 225-CLOSE-SPECIES.
049300      IF COMP-AREA-SPECIES = "C"
049400          OR (SPECIES-SPEC = "BARREN ")
049500          GO TO 210-PROCESS-SPECIES.
049600      ADD 1 TO CNT1.
049700      PERFORM 215-SEARCH THRU 220-EXIT-SEARCH.
049800      COMPUTE TOT-SPEC-CNT = S-AGE-SPECIES + P-AGE-SPECIES +
049900          Y-AGE-SPECIES.
050000      IF (PLOTS-PER-SWAT = ZERO) AND
050100          (SDR-SPECIES = "WY0368")
050200          MOVE 10 TO PLOTS-PER-SWAT.
050300      MOVE PLOTS-PER-SWAT TO SORT-PLOTS-PER-SWAT.
050400      IF SEARCH-SW = 1
050500          COMPUTE PRESENT-SPECIES-CNT = S-AGE-SPECIES +
050600          P-AGE-SPECIES + Y-AGE-SPECIES
050700          MOVE PLOTS-PER-SWAT TO MATCHED-PLOTS-PER-SWAT
050800      ELSE MOVE ZERO TO MATCHED-PLOTS-PER-SWAT.
050900      MOVE BLM-ADM-SPECIES TO BLM-ADM-S.
051000      MOVE RNGE-SITE-SPECIES TO RNGE-SITE-S.
051100      MOVE STRATUM-SPECIES TO STRATUM-S.
051200      MOVE 3 TO RCD-CODE-S.
051300      MOVE TOT-SPEC-CNT TO SPY-AGE-TOT.
051400      MOVE PRESENT-SPECIES-CNT TO SPY-NUM.
051500      MOVE SWAT-SPECIES TO SORT-SWAT.
051600      MOVE ZERO TO TOT-SPEC-CNT, PRESENT-SPECIES-CNT.
051700      MOVE SORT-SPECIES TO DATA-S.
051800      RELEASE SORT-RCD.
051900      GO TO 210-PROCESS-SPECIES.
052000 215-SEARCH.
052100      MOVE BLM-ADM-SPECIES TO BLM-ADM-W.
052200      MOVE RNGE-SITE-SPECIES TO RNGE-W.
052300      MOVE STRATUM-SPECIES TO STRAT-W.
052400      MOVE SPECIES-SPEC TO SPEC-W.
052500 216-READ-WORK.
052600      IF SW-KEY = SS-KEY
052700          MOVE 1 TO SEARCH-SW
052800          GO TO 220-EXIT-SEARCH.
052900      IF SW-KEY > SS-KEY
053000          MOVE ZERO TO SEARCH-SW
053100          GO TO 220-EXIT-SEARCH.
053200      READ SPEC-WORK-FILE AT END
053300          MOVE HIGH-VALUE TO SPEC-WORK-KEY.
053400      IF SPEC-WORK-KEY NOT = HIGH-VALUE
053500          MOVE SPEC-WORK-REC TO SPEC-WORK-KEY.
053600      GO TO 216-READ-WORK.
053700 220-EXIT-SEARCH.
053800      EXIT.
053900 225-CLOSE-SPECIES.
054000      CLOSE SPECIES-FILE.
054100      CLOSE SPEC-WORK-FILE.
054200 230-SUMMARIZE SECTION.
054300 235-OPEN.

```

```

054400 OPEN OUTPUT EXTRACT-FILE.
054500 IF CNT1 = ZERO
054600 GO TO 270-CLOSE-EXTRACT.
054700 MOVE HIGH-VALUE TO END-31.
054800 240-RETURN-SORT.
054900 RETURN SORT-FILE AT END
055000 GO TO 270-CLOSE-EXTRACT.
055100* DISPLAY SORT-RCD.
055200 245-HOLD.
055300 MOVE SORT-KEY TO HOLD-DATA.
055400 MOVE DATA-S TO SORT-SPECIES.
055500 250-ADD.
055600 COMPUTE PRESENT-SPECIES-CNT ROUNDED =
055700 SPY-NUM * MATCHED-PLOTS-PER-SWAT.
055800 ADD PRESENT-SPECIES-CNT TO MATCHED-ADD.
055900 COMPUTE TOT-SPEC-CNT ROUNDED =
056000 SPY-AGE-TOT * SORT-PLOTS-PER-SWAT.
056100 ADD TOT-SPEC-CNT TO TOTAL-ADD.
056200 IF SORT-SWAT NOT EQUAL HOLD-SWAT
056300 ADD SORT-PLOTS-PER-SWAT TO TOTAL-PLOTS.
056400 MOVE SORT-SWAT TO HOLD-SWAT.
056500 255-RTN-NEXT.
056600 RETURN SORT-FILE AT END
056700 PERFORM 260-WRITE-SPECIES
056800 THRU 262-PASS
056900 GO TO 270-CLOSE-EXTRACT.
057000* DISPLAY SORT-RCD.
057100 IF SORT-STRAT = THRU-STRAT
057200 MOVE DATA-S TO SORT-SPECIES
057300 GO TO 250-ADD.
057400 260-WRITE-SPECIES.
057500 MOVE BLM-ADM TO BLM-ADM-EXT.
057600 MOVE RNGE-HOLD TO RNGE-SITE-EXT.
057700 MOVE STRATUM-HOLD TO STRATUM-EXT.
057800 MOVE 3 TO RCD-CODE-EXT.
057900 MOVE HIGH-VALUE TO SPECIES-EXT.
058000 IF TOTAL-PLOTS EQUAL ZERO
058100 DISPLAY "NO PLOTS IN STRATUM " STRATUM-S
058200 DISPLAY "ACTION REQUIRED, DO NOT PROCEED"
058300 GO TO 262-PASS
058400 ELSE
058500 COMPUTE TOTAL-CALC ROUNDED =
058600 TOTAL-ADD / TOTAL-PLOTS
058700 MOVE TOTAL-CALC TO TOT-NUM-SPECIES
058800 COMPUTE MATCHED-CALC ROUNDED =
058900 MATCHED-ADD / TOTAL-PLOTS
059000 MOVE MATCHED-CALC TO PRES-SPECIES.
059100 WRITE EXTRACT-RCD.
059200 ADD 1 TO CNT0.
059300 262-PASS.
059400 MOVE HIGH-VALUE TO HOLD-SWAT.
059500 MOVE ZERO TO PRESENT-SPECIES-CNT
059600 TOT-SPEC-CNT
059700 TOTAL-ADD
059800 MATCHED-ADD
059900 TOTAL-PLOTS.
060000 265-DUMMY.

```

060100 GO TO 245-HOLD.  
060200 270-CLOSE-EXTRACT.  
060300 CLOSE EXTRACT-FILE.  
060400 275-EXIT-SPECIES.  
060500 EXIT.  
060600 280-FINAL-SORT SECTION.  
060700 285-SORT.  
060800 SORT SORT-FILE ON ASCENDING KEY SORT-KEY  
060900 INPUT PROCEDURE 290-MERGE  
061000 GIVING APPARENT-TREND.  
061100 DISPLAY "SPEC-WORK-RECS= " CNT2.  
061200 DISPLAY "AVG-RECS= " CNT3.  
061300 DISPLAY "VEG-RECS= " CNT4.  
061400 DISPLAY "SPECIES-RECS= " CNT9.  
061500 DISPLAY "LITTER-RECS= " CNT8.  
061600 DISPLAY "SSF-RECS= " CNT6.  
061700 DISPLAY "VIGOR-RECS= " CNT7.  
061800 DISPLAY "EXTRACT-RECS= " CNT0.  
061900 STOP RUN.  
062000 290-MERGE SECTION.  
062100 295-OPEN.  
062200 OPEN INPUT SSF-FILE  
062300 VIGOR-FILE  
062400 EXTRACT-FILE  
062500 LITTER-FILE.  
062600 300-PROCESS-SSF.  
062700 READ SSF-FILE AT END  
062800 MOVE SPACE TO SPACE-AREA  
062900 GO TO 305-VIGOR.  
063000 ADD 1 TO CNT6.  
063100 IF COMP-AREA-SSF = "C"  
063200 GO TO 300-PROCESS-SSF.  
063300 MOVE BLM-ADM-SSF TO BLM-ADM-L.  
063400 MOVE RNGE-SITE-SSF TO RNGE-SITE-L.  
063500 MOVE STRATUM-SSF TO STRATUM-L.  
063600 MOVE 5 TO RCD-CODE-L.  
063700 MOVE HIGH-VALUE TO SPECIES-L END-24.  
063800 MOVE STRAT-AVG-SSF TO STRATUM-AVG-S.  
063900 MOVE SORT-SSF TO DATA-L.  
064000 MOVE SORT-LAST TO SORT-THREE.  
064100 RELEASE SORT-THREE.  
064200 GO TO 300-PROCESS-SSF.  
064300 305-VIGOR.  
064400 READ VIGOR-FILE AT END  
064500 GO TO 310-EXTRACT.  
064600 MOVE VIGOR-RCD TO SORT-THREE.  
064700 ADD 1 TO CNT7.  
064800 RELEASE SORT-THREE.  
064900 GO TO 305-VIGOR.  
065000 310-EXTRACT.  
065100 READ EXTRACT-FILE AT END  
065200 GO TO 315-LITTER.  
065300 ADD 1 TO CNT8.  
065400 MOVE EXTRACT-RCD TO SORT-THREE.  
065500 RELEASE SORT-THREE.  
065600 GO TO 310-EXTRACT.  
065700 315-LITTER.

```

065800 READ LITTER-FILE AT END
065900 GO TO 400-CLOSE.
066000 MOVE BLM-ADM-LITTER TO BLM-ADM-L.
066100 MOVE RNGE-SITE-LITTER TO RNGE-SITE-L.
066200 MOVE STRATUM-LITTER TO STRATUM-L.
066300 MOVE 4 TO RCD-CODE-L.
066400 MOVE HIGH-VALUE TO SPECIES-L END-35.
066500 MOVE GRND-NON-LITTER TO GRND-COVER-NON.
066600 MOVE GRND-COMP-LITTER TO GRND-COVER-COMP.
066700 MOVE SORT-LITTER TO DATA-L.
066800 MOVE SORT-LAST TO SORT-THREE.
066900 RELEASE SORT-THREE.
067000 GO TO 315-LITTER.
067100 400-CLOSE.
067200 CLOSE SSF-FILE
067300 VIGOR-FILE
067400 EXTRACT-FILE
067500 LITTER-FILE.
067600 900-EXIT-LAST.
067700 EXIT.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES730P.
000300* APPARENT TREND (P14 LIST)
000400*
000500 AUTHOR. FRANK WILEY.
000600 DATE-WRITTEN. 25 SEP 79.
000700 DATE-COMPILED.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400 SELECT APPARENT-TREND-FILE ASSIGN TO D1
001500 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600 SELECT NUMERIC-VALUE-FILE ASSIGN TO D2
001700 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800 SELECT PRINT-FILE ASSIGN TO P1
001900 ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000 DATA DIVISION.
002100 SUB-SCHEMA SECTION.
002200 DB CODVAL2 WITHIN BLMDIC.
002300 FILE SECTION.
002400 FD NUMERIC-VALUE-FILE
002500 CODE-SET GBCD
002600 LABEL RECORD STANDARD.
002700 01 NUM-RCD.
002800 02 BLM-ADM-N PIC X(8).
002900 02 RNGE-SITE-N PIC X(11).
003000 02 STRATUM-N PIC X(4).
003100 02 NUM-VAL-N PIC 9(3).
003200 02 FILLER PIC X(4).
003300 FD APPARENT-TREND-FILE
003400 CODE-SET GBCD
003500 LABEL RECORD STANDARD.
003600 01 VIGOR-RCD.

```



003700	02	CNTL-AREA.		
003800	03	THRU-RCD.		
003900	04	THRU-STRAT.		
004000	05	BLM-ADM-4.		
004100	06	BLM-ADM-3.		
004200	07	BLM-ADM-2.		
004300	08	BLM-ADM-ST	PIC XX.	
004400	08	BLM-ADM-DIST	PIC XX.	
004500	07	BLM-ADM-RA	PIC XX.	
004600	06	BLM-ADM-PLU	PIC XX.	
004700	05	RNGE-SITE-VIGOR	PIC X(11).	
004800	05	STRATUM-VIGOR	PIC X(4).	
004900	04	RCD-CODE-VIGOR	PIC 9.	
005000	03	SPECIES-VIGOR	PIC X(7).	
005100	02	COMP-AREA-VIGOR	PIC X(4).	
005200	02	DENSITY-W-COMP	PIC 9(6).	
005300	02	DENSITY-NON-COMP	PIC 9(6).	
005400	02	POTEN-PROD	PIC 9(5)V9(5).	
005500	02	PRESENT-PROD	PIC 9(5)V9(5).	
005600	02	COMP-PCT-VIGOR	PIC 9(5)V9(5).	
005700	02	FILLER	PIC X.	
005800	01	REPRO-RCD.		
005900	02	FILLER	PIC X(31).	
006000	02	POTEN-SPECIES	PIC 9(5).	
006100	02	TOT-NUM-SPECIES	PIC 9(5).	
006200	02	FILLER	PIC X(37).	
006300	01	LITTER-RCD.		
006400	02	FILLER	PIC X(31).	
006500	02	PRESENT-LITTER	PIC 9(3).	
006600	02	POTEN-LITTER	PIC 9(3).	
006700	02	FILLER	PIC X(41).	
006800	01	WATERSHED-RCD.		
006900	02	FILLER	PIC X(31).	
007000	02	SSF-ITEMS.		
007100	03	SSF-ITEM-IN	PIC 99 OCCURS 7.	
007200	03	SSF-TOT	PIC 9(3).	
007300	02	FILLER	PIC X(30).	
007400	01	VIGOR-TOT-RCD.		
007500	02	FILLER	PIC X(31).	
007600	02	TOT-POTEN	PIC 9(5)V9(5).	
007700	02	TOT-PRESENT	PIC 9(5)V9(5).	
007800	02	FILLER	PIC X(27).	
007900	FD	PRINT-FILE		
008000		CODE-SET GBCD		
008100		LABEL RECORD STANDARD.		
008200	01	PRINT-RCD	PIC X(132).	
008300		WORKING-STORAGE SECTION.		
008400	77	PAGE-SW	PIC 9 COMP-4.	
008500	77	PAGE-CNT	PIC 9(5) VALUE 1.	
008600	77	LINE-CNT COMP-4	PIC 99 VALUE ZERO.	
008700	77	SUB COMP-4	PIC 9 VALUE 1.	
008800	77	PCT-HLD COMP-4	PIC 999V9(7) VALUE ZERO.	
008900	77	PCT-HLD-2 COMP-4	PIC 999 VALUE ZERO.	
009000	77	PCT-CNT-B	COMP-4 PIC 999.	
009100	77	AVG-POT-D	COMP-4 PIC 9(3)V99.	
009200	77	AVG-PRES-G	COMP-4 PIC 9(3)V99.	
009300	77	PCT-OF-POT-I	COMP-4 PIC 9999.	

009400	77	PCT-POTEN-H	COMP-4	PIC 9999.
009500	77	M-CNT	COMP-4	PIC 9999.
009600	77	TOT-NUM-VAL	COMP-4	PIC 99.
009700	77	COUNT-1	COMP-4	PIC 999.
009800	77	COUNT-2	COMP-4	PIC 99.
009900	77	PCT-PRODUCTION	COMP-4	PIC 999.
010000	77	PCT-LITTER	COMP-4	PIC 999.
010100	01	COUNT-3		PIC 99.
010200	01	COUNT-3-XX	REDEFINES	COUNT-3 PIC XX.
010300	01	TOT-POTEN-HOLD	COMP-4	PIC 9(5)V9(5).
010400	01	TOT-PRESENT-HOLD	COMP-4	PIC 9(5)V9(5).
010500		COPY DBSTATUS OF TPCOBOLIB.		
010600	01	DATE-HOLD.		
010700		03 YEAR-H		PIC 99.
010800		03 MON-H		PIC 99.
010900		03 DAY-H		PIC 99.
011000	01	MONTH-TABLE		PIC X(36) VALUE
011100		"JANFEBMARAPRPMAYJUNJULAUGSEP OCTNOVDEC".		
011200	01	MONTH-LINE	REDEFINES	MONTH-TABLE.
011300		03 ALPHA-MONTH		PIC X(3) OCCURS 12.
011400	01	HOLD-AREA.		
011500		03 FUNC-HOLD.		
011600		04 STATE-NAME		PIC X(10).
011700		04 FILLER		PIC X(14).
011800		03 EXPL-HOLD.		
011900		04 DIST-NAME		PIC X(10).
012000		04 FILLER		PIC X.
012100		04 RA-NAME		PIC X(12).
012200		04 FILLER		PIC X.
012300		04 PLU-NAME		PIC X(15).
012400		04 FILLER		PIC X.
012500		03 DIST-H		PIC XX.
012600	01	SSF-LINE.		
012700		02 FILLER		PIC X(14) VALUE "SOIL MOVEMENT ".
012800		02 FILLER		PIC X(14) VALUE "SURFACE LITTER".
012900		02 FILLER		PIC X(14) VALUE "SURFACE ROCK ".
013000		02 FILLER		PIC X(14) VALUE "PEDALSTING ".
013100		02 FILLER		PIC X(14) VALUE "FLOW PATTERNS ".
013200		02 FILLER		PIC X(14) VALUE "RILLS ".
013300		02 FILLER		PIC X(14) VALUE "GULLIES ".
013400	01	SSF-TABLE	REDEFINES	SSF-LINE.
013500		02 TBL-LINE		PIC X(14) OCCURS 7.
013600	01	HDR-1.		
013700		03 FILLER		PIC X(13) VALUE "REPORT DATE: ".
013800		03 HEADER-DATE.		
013900		05 MO-HDR		PIC 99.
014000		05 FILLER		PIC X VALUE "/".
014100		05 DA-HDR		PIC 99.
014200		05 FILLER		PIC X VALUE "/".
014300		05 YR-HDR		PIC 99.
014400		03 FILLER		PIC X(28) VALUE SPACES.
014500		03 FILLER		PIC X(23) VALUE "U.S.D.I. BUREAU OF LAND".
014600		03 FILLER		PIC X(11) VALUE " MANAGEMENT".
014700		03 FILLER		PIC X(22) VALUE SPACES.
014800		03 FILLER		PIC X(15) VALUE "PCN: P140 ".
014900		03 FILLER		PIC X(6) VALUE " PAGE ".
015000		03 PAGE-NO		PIC ZZ,ZZ9.

015100	01	HDR-3.		
015200	03	FILLER	PIC X(21) VALUE " STATE "	.
015300	03	ST-HDR	PIC X(10).	
015400	03	FILLER	PIC X(23) VALUE SPACES.	
015500	03	FILLER	PIC X(21) VALUE "ECOLOGICAL SITE INVEN".	
015600	03	FILLER	PIC X(04) VALUE "TORY".	
015700	03	FILLER	PIC X(53) VALUE SPACES.	
015800	01	HDR-4.		
015900	03	FILLER	PIC X(21) VALUE " DISTRICT "	.
016000	03	DT-HDR	PIC X(12).	
016100	03	FILLER	PIC X(99) VALUE SPACES.	
016200	01	HDR-5.		
016300	03	FILLER	PIC X(20) VALUE " RESOURCE AREA "	.
016400	03	RA-HDR	PIC X(13).	
016500	03	FILLER	PIC X(25) VALUE SPACES.	
016600	03	FILLER	PIC X(14) VALUE "APPARENT TREND".	
016700	03	FILLER	PIC X(60) VALUE SPACE.	
016800	01	HDR-6.		
016900	03	FILLER	PIC X(20) VALUE " PLANNING UNIT "	.
017000	03	PLU-HDR	PIC X(15).	
017100	03	FILLER	PIC X(97) VALUE SPACES.	
017200	01	HDR-7.		
017300	03	FILLER	PIC X(21) VALUE " RANGE SITE "	.
017400	03	RNG-SITE-HDR	PIC X(11).	
017500	03	FILLER	PIC X(27) VALUE SPACES.	
017600	03	FILLER	PIC X(8) VALUE "STRATUM ".	
017700	03	STRATUM-HDR	PIC 9(4).	
017800	03	FILLER	PIC X(61) VALUE SPACES.	
017900	01	HDR-9.		
018000	03	FILLER	PIC X(6) VALUE "VIGOR ".	
018100	03	FILLER	PIC X(15) VALUE SPACES.	
018200	03	FILLER	PIC X(23) VALUE "P O T E N T I A ".	
018300	03	FILLER	PIC X(2) VALUE " L".	
018400	03	FILLER	PIC X(31) VALUE SPACES.	
018500	03	FILLER	PIC X(19) VALUE "P R E S E N T".	
018600	03	FILLER	PIC X(36) VALUE SPACES.	
018700	01	HDR-10.		
018800	03	FILLER	PIC X(23) VALUE " PLANT POTENTIAL "	.
018900	03	FILLER	PIC X(23) VALUE " COMP NUM PLANTS "	.
019000	03	FILLER	PIC X(23) VALUE " AVE POT PRESENT "	.
019100	03	FILLER	PIC X(22) VALUE " NUM PLANTS AVE PRE".	
019200	03	FILLER	PIC X(25) VALUE	
019300		"S PCT PRODUCTION WTD ".		
019400	03	FILLER	PIC X(16) VALUE "AVE NUMERIC "	.
019500	01	HDR-11.		
019600	03	FILLER	PIC X(23) VALUE " SYMBOL PRODUCTION "	.
019700	03	FILLER	PIC X(23) VALUE " PCT PER ACRE "	.
019800	03	FILLER	PIC X(23) VALUE " PROD/PLNT ADJ PROD "	.
019900	03	FILLER	PIC X(23) VALUE " PER ACRE PROD/PLN".	
020000	03	FILLER	PIC X(25) VALUE	
020100		"T OF POTENTIAL PCT OF ".		
020200	03	FILLER	PIC X(15) VALUE "POT VALUE "	.
020300	01	HDR-12.		
020400	03	FILLER	PIC X(13) VALUE SPACES.	
020500	03	FILLER	PIC X(8) VALUE "LBS/ACRE".	
020600	03	FILLER	PIC X(29) VALUE SPACES.	
020700	03	FILLER	PIC X(3) VALUE "LBS".	

020800	03	FILLER	PIC X(7)	VALUE SPACES.
020900	03	FILLER	PIC X(8)	VALUE "LBS/ACRE".
021000	03	FILLER	PIC X(19)	VALUE SPACES.
021100	03	FILLER	PIC X(3)	VALUE "LBS".
021200	03	FILLER	PIC X(42)	VALUE SPACES.
021300	01	DATA-LINE-1.		
021400	03	PLANT-SYM	PIC X(7).	
021500	03	FILLER	PIC X(6)	VALUE SPACES.
021600	03	POT-PROD	PIC Z(5).9.	
021700	03	FILLER	PIC X(8)	VALUE SPACES.
021800	03	COMP-PCT	PIC ZZ9.	
021900	03	FILLER	PIC X(5)	VALUE SPACES.
022000	03	PLANTS-ACRE-1	PIC Z(5)9.	
022100	03	FILLER	PIC X(7)	VALUE SPACES.
022200	03	AVG-POTNTL	PIC Z(3).99.	
022300	03	FILLER	PIC X(5)	VALUE SPACES.
022400	03	PRES-PROD	PIC Z(5).9.	
022500	03	FILLER	PIC X(6)	VALUE SPACES.
022600	03	PLANTS-ACRE-2	PIC Z(5)9.	
022700	03	FILLER	PIC X(7)	VALUE SPACES.
022800	03	AVG-PRES-PROD	PIC Z(3).99.	
022900	03	FILLER	PIC X(9)	VALUE SPACES.
023000	03	PROD-POT	PIC ZZZ9.	
023100	03	FILLER	PIC X(8)	VALUE SPACES.
023200	03	PCT-POT	PIC ZZZ9.	
023300	03	FILLER	PIC X(15)	VALUE SPACES.
023400	01	VIGOR-TOT-LINE.		
023500	02	FILLER		PIC X(107) VALUE SPACE.
023600	02	FILLER	PIC X(6)	VALUE "TOTAL ".
023700	02	VIGOR-TOT-PCT-POT		PIC ZZZ9.
023800	02	FILLER		PIC X(8) VALUE SPACE.
023900	02	VIGOR-NUM-VAL		PIC Z9.
024000	02	FILLER		PIC X(5) VALUE SPACE.
024100	01	PROD-HDR-1.		
024200	03	FILLER	PIC X(13)	VALUE "REPRODUCTION ".
024300	03	FILLER	PIC X(50)	VALUE SPACES.
024400	03	FILLER	PIC X(6)	VALUE "NUMBER".
024500	03	FILLER	PIC X(23)	VALUE SPACES.
024600	03	FILLER	PIC X(7)	VALUE "PERCENT".
024700	03	FILLER	PIC X(24)	VALUE SPACES.
024800	03	FILLER	PIC X(9)	VALUE "NUMERIC ".
024900	01	PROD-HDR-2.		
025000	03	FILLER	PIC X(63)	VALUE SPACES.
025100	03	FILLER	PIC X(6)	VALUE "PLANTS".
025200	03	FILLER	PIC X(20)	VALUE SPACES.
025300	03	FILLER	PIC X(12)	VALUE "REPRODUCTION".
025400	03	FILLER	PIC X(23)	VALUE SPACES.
025500	03	FILLER	PIC X(5)	VALUE "VALUE".
025600	03	FILLER	PIC X(2)	VALUE SPACES.
025700	01	PROD-DATA-LINE-1.		
025800	02	FILLER		PIC X(30) VALUE
025900		"NUM SEEDLING AND YOUNG PLANTS "		
026000	02	FILLER		PIC X(33) VALUE
026100		"PER ACRE OF POTENTIAL SPECIES "		
026200	02	NO-PLANTS-1		PIC Z(4)9.
026300	02	FILLER		PIC X(64) VALUE SPACE.
026400	01	PROD-DATA-LINE-2.		

026500	03	FILLER	PIC X(44) VALUE
026600		"TOTAL NUM SEEDLING AND YOUNG PLANTS PER ACRE".	
026700	03	FILLER	PIC X(19) VALUE SPACE.
026800	03	NO-PLANTS	PIC Z(4)9.
026900	03	FILLER	PIC X(26) VALUE SPACES.
027000	03	PCT-PROD	PIC ZZ9.
027100	03	FILLER	PIC X(28) VALUE SPACES.
027200	03	NUM-VALUE	PIC Z9.
027300	03	FILLER	PIC X(5) VALUE SPACES.
027400	01	LITTER-HDR-1.	
027500	03	FILLER	PIC X(7) VALUE "LITTER ".
027600	03	FILLER	PIC X(54) VALUE SPACES.
027700	03	FILLER	PIC X(9) VALUE "PCT COVER".
027800	03	FILLER	PIC X(22) VALUE SPACES.
027900	03	FILLER	PIC X(7) VALUE "PERCENT".
028000	03	FILLER	PIC X(24) VALUE SPACES.
028100	03	FILLER	PIC X(7) VALUE "NUMERIC".
028200	03	FILLER	PIC XX VALUE SPACES.
028300	01	LITTER-HDR-2.	
028400	03	FILLER	PIC X(63) VALUE SPACES.
028500	03	FILLER	PIC X(6) VALUE "LITTER".
028600	03	FILLER	PIC X(23) VALUE SPACES.
028700	03	FILLER	PIC X(6) VALUE "OF POT".
028800	03	FILLER	PIC X(26) VALUE SPACES.
028900	03	FILLER	PIC X(5) VALUE "VALUE".
029000	03	FILLER	PIC X(3) VALUE SPACES.
029100	01	LITTER-DATA-LINE-1.	
029200	02	FILLER	PIC X(30) VALUE
029300		"PERCENT LITTER COVER PRESENT "	
029400	02	FILLER	PIC X(34) VALUE SPACE.
029500	02	PCT-COVER-1	PIC ZZ9.
029600	02	FILLER	PIC X(64) VALUE SPACE.
029700	01	LITTER-DATA-LINE-2.	
029800	02	FILLER	PIC X(30) VALUE
029900		"PERCENT LITTER COVER POTENTIAL".	
030000	02	FILLER	PIC X(34) VALUE SPACE.
030100	02	PCT-COVER	PIC ZZ9.
030200	02	FILLER	PIC X(27) VALUE SPACE.
030300	02	PCT-LIT-POT	PIC ZZ9.
030400	02	FILLER	PIC X(29) VALUE SPACE.
030500	02	LIT-NUM-VAL	PIC Z9.
030600	02	FILLER	PIC X(4) VALUE SPACE.
030700	01	SSF-HDR-1.	
030800	02	FILLER	PIC X(21) VALUE
030900		"WATERSHED (SSF ITEMS)".	
031000	02	FILLER	PIC X(43) VALUE SPACE.
031100	02	FILLER	PIC X(3) VALUE "SSF".
031200	02	FILLER	PIC X(54) VALUE SPACE.
031300	02	FILLER	PIC X(11) VALUE " NUMERIC ".
031400	01	SSF-HDR-2.	
031500	03	FILLER	PIC X(63) VALUE SPACES.
031600	03	FILLER	PIC X(5) VALUE "VALUE".
031700	03	FILLER	PIC X(54) VALUE SPACES.
031800	03	FILLER	PIC X(10) VALUE " VALUE ".
031900	01	SSF-DATA-LINE-1.	
032000	03	SSF-ITEM-INS-P	PIC X(14).
032100	03	FILLER	PIC X(51) VALUE SPACE.

```

032200      03  SSF-VALUE-P    PIC Z9.
032300      03  SSF-VALUE-P-XX REDEFINES SSF-VALUE-P    PIC XX.
032400      03  FILLER          PIC X(59) VALUE SPACES.
032500      03  NUM-VALUE-P    PIC Z9.
032600      03  NUM-VALUE-P-XX REDEFINES NUM-VALUE-P    PIC XX.
032700      03  FILLER          PIC X(4)  VALUE SPACES.
032800  01  SSF-DATA-LINE-2.
032900      02  FILLER          PIC X(5)  VALUE "TOTAL".
033000      02  FILLER          PIC X(59) VALUE SPACE.
033100      02  SSF-TOT-VAL    PIC ZZ9.
033200      02  FILLER          PIC X(65) VALUE SPACE.
033300  01  SSF-DATA-LINE-3.
033400      03  FILLER          PIC X(20) VALUE "TOTAL NUMERIC VALUE ".
033500      03  FILLER          PIC X(106) VALUE SPACES.
033600      03  TOT-NUM-VALUE    PIC Z9.
033700      03  FILLER          PIC X(4)  VALUE SPACES.
033800  01  LAST-HDR.
033900      03  FILLER  PIC X(8)  VALUE "STRATUM ".
034000      03  STRAT-NUM  PIC 9999.
034100      03  FILLER  PIC X(5)  VALUE " HAS ".
034200      03  APPAR-TREND  PIC X(11).
034300      03  FILLER  PIC X(6)  VALUE " TREND".
034400      03  FILLER  PIC X(98)  VALUE SPACES.
034500  01  PERCENT-LINE-1.
034600      03  FILLER          PIC X(93) VALUE SPACES.
034700      03  FILLER          PIC X(17) VALUE " 0 - 30 DECLINING".
034800      03  FILLER          PIC X(22) VALUE SPACES.
034900  01  PERCENT-LINE-2.
035000      03  FILLER          PIC X(93) VALUE SPACES.
035100      03  FILLER          PIC X(20) VALUE "31 - 50 NO APPARENT".
035200      03  FILLER          PIC X(19) VALUE SPACES.
035300  01  PERCENT-LINE-3.
035400      03  FILLER          PIC X(93) VALUE SPACES.
035500      03  FILLER          PIC X(17) VALUE "51 - 81 IMPROVING".
035600      03  FILLER          PIC X(22) VALUE SPACES.
035700  01  HOLD-DATA.
035800      02  THRU-RCD-CD.
035900          03  THRU-STRAT-H.
036000          04  BLM-ADM          PIC X(8).
036100          04  RNGE-HOLD        PIC X(11).
036200          04  STRATUM-HOLD     PIC X(4).
036300          03  RCD-CD-HOLD     PIC 9.
036400      02  SPECIES-HOLD        PIC X(7).
036500  PROCEDURE DIVISION.
036600  005-START SECTION.
036700  010-OPEN-FILES.
036800      PERFORM 043-READY.
036900      OPEN INPUT APPARENT-TREND-FILE.
037000      OPEN OUTPUT NUMERIC-VALUE-FILE
037100          PRINT-FILE.
037200      MOVE SPACE TO PRINT-RCD.
037300      IF PAGE-CNT = 1
037400          DISPLAY SPACES.
037500      WRITE PRINT-RCD BEFORE ADVANCING PAGE.
037600      ACCEPT DATE-HOLD FROM DATE.
037700      MOVE YEAR-H TO YR-HDR.
037800      MOVE DAY-H TO DA-HDR.

```

```

037900     MOVE MON-H TO MO-HDR.
038000     MOVE PAGE-CNT TO PAGE-NO.
038100     PERFORM 830-INITIALIZE.
038200 015-READ.
038300     READ APPARENT-TREND-FILE AT END
038400     GO TO 9090-WRAPUP.
038500     IF RCD-CODE-VIGOR NOT = TO 1
038600     GO TO 015-READ.
038700 020-MOVE-TOTAL.
038800     MOVE CNTL-AREA TO HOLD-DATA.
038900     MOVE TOT-POTEN TO TOT-POTEN-HOLD.
039000     MOVE TOT-PRESENT TO TOT-PRESENT-HOLD.
039100 025-READ-AGAIN.
039200     READ APPARENT-TREND-FILE AT END
039300     GO TO 9090-WRAPUP.
039400     IF RCD-CODE-VIGOR NOT = 2
039500     GO TO 015-READ.
039600     MOVE 2 TO RCD-CD-HOLD.
039700 030-PRINT-HDRS.
039800     PERFORM 800-EDIT-ST THRU 825-EXIT-BLM.
039900     MOVE RNGE-HOLD TO RNG-SITE-HDR.
040000     MOVE STRATUM-HOLD TO STRATUM-HDR.
040100     PERFORM 400-PAGE-HDRS THRU 405-VIGOR-HDRS.
040200 035-MOVE-VIGOR-DATA.
040300     MOVE SPECIES-VIGOR TO PLANT-SYM.
040400     MOVE POTEN-PROD TO POT-PROD.
040500     MOVE DENSITY-W-COMP TO PLANTS-ACRE-1.
040600     MOVE PRESENT-PROD TO PRES-PROD.
040700     MOVE DENSITY-NON-COMP TO PLANTS-ACRE-2.
040800 040-COMPUTE-VIGOR.
040900*     COMPUTE PCT-CNT-B ROUNDED = COMP-PCT-VIGOR * 100.
041000*     MOVE PCT-CNT-B TO COMP-PCT.
041100     MOVE ZERO TO PCT-HLD.
041200     IF (POTEN-PROD > ZERO) AND (TOT-POTEN-HOLD > ZERO)
041300     COMPUTE PCT-HLD = POTEN-PROD / TOT-POTEN-HOLD.
041400     COMPUTE PCT-HLD-2 ROUNDED = PCT-HLD * 100.
041500     MOVE PCT-HLD-2 TO COMP-PCT.
041600     IF POTEN-PROD = ZERO OR DENSITY-W-COMP = ZERO
041700     MOVE ZERO TO AVG-POT-D, AVG-POTNTL
041800     ELSE
041900     COMPUTE AVG-POT-D ROUNDED = POTEN-PROD / DENSITY-W-COMP
042000     MOVE AVG-POT-D TO AVG-POTNTL.
042100     IF PRESENT-PROD = ZERO OR DENSITY-NON-COMP = ZERO
042200     MOVE ZERO TO AVG-PRES-PROD, AVG-PRES-G
042300     ELSE
042400     COMPUTE AVG-PRES-G ROUNDED = PRESENT-PROD / DENSITY-NON-COMP
042500     MOVE AVG-PRES-G TO AVG-PRES-PROD.
042600     IF AVG-POT-D = ZERO OR AVG-PRES-G = ZERO
042700     MOVE ZERO TO PROD-POT, PCT-POTEN-H
042800     ELSE
042900     COMPUTE PCT-POTEN-H ROUNDED = (AVG-PRES-G * 100) /
043000     AVG-POT-D
043100     MOVE PCT-POTEN-H TO PROD-POT.
043200     IF COMP-PCT-VIGOR = ZERO OR PCT-POTEN-H = ZERO
043300     MOVE ZERO TO PCT-POT, PCT-OF-POT-I
043400     ELSE
043500     COMPUTE PCT-OF-POT-I ROUNDED = PCT-HLD *

```

```

043600          PCT-POTEN-H
043700          MOVE PCT-OF-POT-I TO PCT-POT.
043800          ADD PCT-OF-POT-I TO M-CNT.
043900          MOVE DATA-LINE-1 TO PRINT-RCD.
044000          IF PAGE-CNT = 1
044100              DISPLAY DATA-LINE-1.
044200          WRITE PRINT-RCD BEFORE ADVANCING 1.
044300          ADD 1 TO LINE-CNT.
044400          IF LINE-CNT > 54
044500              PERFORM 500-LINE-CNT.
044600          READ APPARENT-TREND-FILE AT END
044700              GO TO 9090-WRAPUP.
044800          IF RCD-CODE-VIGOR NOT = TO 2
044900              GO TO 050-TOTAL.
045000          IF THRU-RCD = THRU-RCD-CD
045100              PERFORM 045-CHECK-LINECNT
045200              GO TO 035-MOVE-VIGOR-DATA.
045300          GO TO 050-TOTAL.
045400 043-READY.
045500          READY DIC-DE.
045600 045-CHECK-LINECNT.
045700          IF LINE-CNT = ZERO
045800              PERFORM 400-PAGE-HDRS THRU 405-VIGOR-HDRS.
045900 050-TOTAL.
046000          IF LINE-CNT = ZERO
046100              PERFORM 400-PAGE-HDRS THRU 405-VIGOR-HDRS.
046200          MOVE M-CNT TO COUNT-1, VIGOR-TOT-PCT-POT.
046300          PERFORM 505-TABLE-A.
046400          ADD COUNT-2 TO TOT-NUM-VAL.
046500          MOVE COUNT-2 TO VIGOR-NUM-VAL.
046600          MOVE VIGOR-TOT-LINE TO PRINT-RCD.
046700          IF PAGE-CNT = 1
046800              DISPLAY VIGOR-TOT-LINE
046900              DISPLAY SPACES.
047000          WRITE PRINT-RCD BEFORE ADVANCING 2.
047100          ADD 2 TO LINE-CNT.
047200          IF LINE-CNT > 49
047300              PERFORM 500-LINE-CNT.
047400          MOVE ZERO TO M-CNT.
047500 055-RCD-CHECK.
047600          IF RCD-CODE-VIGOR = 3
047700              GO TO 060-REPRO.
047800          IF RCD-CODE-VIGOR = 4
047900              GO TO 065-LITTER.
048000          IF RCD-CODE-VIGOR = 5
048100              GO TO 070-SSF.
048200          IF LINE-CNT NOT = TO ZERO
048300              PERFORM 500-LINE-CNT.
048400          IF RCD-CODE-VIGOR = 1
048500              GO TO 020-MOVE-TOTAL.
048600          GO TO 015-READ.
048700 060-REPRO.
048800          IF THRU-STRAT NOT = TO THRU-STRAT-H
048900              GO TO 015-READ.
049000          IF LINE-CNT = ZERO
049100              PERFORM 400-PAGE-HDRS.
049200          PERFORM 410-REPRO-HDRS.

```



```

049300 MOVE POTEN-SPECIES TO NO-PLANTS-1.
049400 MOVE PROD-DATA-LINE-1 TO PRINT-RCD.
049500 IF PAGE-CNT = 1
049600     DISPLAY PROD-DATA-LINE-1.
049700 WRITE PRINT-RCD BEFORE ADVANCING 1.
049800 ADD 1 TO LINE-CNT.
049900 MOVE TOT-NUM-SPECIES TO NO-PLANTS.
050000 IF POTEN-SPECIES = ZERO OR TOT-NUM-SPECIES = ZERO
050100     MOVE ZERO TO PCT-PRODUCTION, PCT-PROD
050200     ELSE
050300     COMPUTE PCT-PRODUCTION ROUNDED = (POTEN-SPECIES * 100) /
050400     TOT-NUM-SPECIES
050500     IF PCT-PRODUCTION GREATER 100
050600     MOVE 100 TO PCT-PROD
050700     ELSE MOVE PCT-PRODUCTION TO PCT-PROD.
050800 MOVE PCT-PRODUCTION TO COUNT-1.
050900 PERFORM 505-TABLE-A.
051000 MOVE COUNT-2 TO NUM-VALUE.
051100 ADD COUNT-2 TO TOT-NUM-VAL.
051200 MOVE PROD-DATA-LINE-2 TO PRINT-RCD.
051300 IF PAGE-CNT = 1
051400     DISPLAY PROD-DATA-LINE-2
051500     DISPLAY SPACES.
051600 WRITE PRINT-RCD BEFORE ADVANCING 2.
051700 ADD 2 TO LINE-CNT.
051800 IF LINE-CNT > 49
051900     PERFORM 500-LINE-CNT.
052000 READ APPARENT-TREND-FILE AT END
052100     GO TO 9090-WRAPUP.
052200 IF RCD-CODE-VIGOR = 4
052300     GO TO 065-LITTER.
052400 IF RCD-CODE-VIGOR = 5
052500     GO TO 070-SSF.
052600 IF LINE-CNT NOT = TO ZERO
052700     PERFORM 500-LINE-CNT.
052800 IF RCD-CODE-VIGOR = 1
052900     GO TO 020-MOVE-TOTAL.
053000 GO TO 015-READ.
053100 065-LITTER.
053200 IF THRU-STRAT NOT = TO THRU-STRAT-H
053300     GO TO 015-READ.
053400 IF LINE-CNT = ZERO
053500     PERFORM 400-PAGE-HDRS.
053600 PERFORM 415-LITTER-HDRS.
053700 MOVE PRESENT-LITTER TO PCT-COVER-1.
053800 MOVE LITTER-DATA-LINE-1 TO PRINT-RCD.
053900 IF PAGE-CNT = 1
054000     DISPLAY LITTER-DATA-LINE-1.
054100 WRITE PRINT-RCD BEFORE ADVANCING 1.
054200 MOVE POTEN-LITTER TO PCT-COVER.
054300 IF PRESENT-LITTER = ZERO OR POTEN-LITTER = ZERO
054400     MOVE ZERO TO PCT-LITTER, PCT-LIT-POT
054500     ELSE
054600     COMPUTE PCT-LITTER ROUNDED = (PRESENT-LITTER * 100) /
054700     POTEN-LITTER
054800     IF PCT-LITTER GREATER 100
054900     MOVE 100 TO PCT-LIT-POT

```

```

055000         ELSE MOVE PCT-LITTER TO PCT-LIT-POT.
055100         IF PCT-LITTER GREATER 100
055200             MOVE 100 TO COUNT-1
055300         ELSE MOVE PCT-LITTER TO COUNT-1.
055400         PERFORM 505-TABLE-A.
055500         MOVE COUNT-2 TO LIT-NUM-VAL.
055600         ADD COUNT-2 TO TOT-NUM-VAL.
055700         MOVE LITTER-DATA-LINE-2 TO PRINT-RCD.
055800         IF PAGE-CNT = 1
055900             DISPLAY LITTER-DATA-LINE-2
056000             DISPLAY SPACES.
056100         WRITE PRINT-RCD BEFORE ADVANCING 2.
056200         ADD 3 TO LINE-CNT.
056300         READ APPARENT-TREND-FILE AT END
056400             GO TO 9090-WRAPUP.
056500         IF RCD-CODE-VIGOR = 5
056600             GO TO 070-SSF.
056700         IF LINE-CNT NOT = TO ZERO
056800             PERFORM 500-LINE-CNT.
056900         IF RCD-CODE-VIGOR = 1
057000             GO TO 020-MOVE-TOTAL.
057100         GO TO 015-READ.
057200 070-SSF.
057300         IF THRU-STRAT = THRU-STRAT-H
057400             GO TO 075-LINES-LEFT.
057500         IF LINE-CNT = ZERO
057600             GO TO 015-READ.
057700         PERFORM 500-LINE-CNT.
057800         GO TO 015-READ.
057900 075-LINES-LEFT.
058000         IF LINE-CNT > 38
058100             PERFORM 500-LINE-CNT
058200             PERFORM 400-PAGE-HDRS.
058300         PERFORM 420-SSF-HDRS.
058400         PERFORM 090-MOVE-SSF THRU 095-EXIT-SSF.
058500         MOVE SSF-TOT TO SSF-TOT-VAL.
058600         MOVE SSF-DATA-LINE-2 TO PRINT-RCD.
058700         IF PAGE-CNT = 1
058800             DISPLAY SSF-DATA-LINE-2
058900             DISPLAY SPACES.
059000         WRITE PRINT-RCD BEFORE ADVANCING 2.
059100         ADD 2 TO LINE-CNT.
059200         MOVE TOT-NUM-VAL TO TOT-NUM-VALUE.
059300         MOVE SSF-DATA-LINE-3 TO PRINT-RCD.
059400         IF PAGE-CNT = 1
059500             DISPLAY SSF-DATA-LINE-3
059600             DISPLAY SPACES.
059700         WRITE PRINT-RCD BEFORE ADVANCING 2.
059800         ADD 2 TO LINE-CNT.
059900         IF TOT-NUM-VAL LESS THAN 31
060000             MOVE "DECLINING " TO APPAR-TREND.
060100         IF TOT-NUM-VAL > 30 AND TOT-NUM-VAL LESS THAN 51
060200             MOVE "NO APPARENT" TO APPAR-TREND.
060300         IF TOT-NUM-VAL > 50
060400             MOVE "IMPROVING" TO APPAR-TREND.
060500         MOVE STRATUM-HOLD TO STRAT-NUM.
060600         MOVE LAST-HDR TO PRINT-RCD.

```

```

060700     IF PAGE-CNT = 1
060800         DISPLAY LAST-HDR
060900         DISPLAY PERCENT-LINE-1
061000         DISPLAY PERCENT-LINE-2
061100         DISPLAY PERCENT-LINE-3.
061200     WRITE PRINT-RCD BEFORE ADVANCING 1.
061300     MOVE PERCENT-LINE-1 TO PRINT-RCD.
061400     WRITE PRINT-RCD BEFORE ADVANCING 1.
061500     MOVE PERCENT-LINE-2 TO PRINT-RCD.
061600     WRITE PRINT-RCD BEFORE ADVANCING 1.
061700     MOVE PERCENT-LINE-3 TO PRINT-RCD.
061800     WRITE PRINT-RCD BEFORE ADVANCING PAGE.
061900     ADD 1 TO PAGE-CNT.
062000     MOVE PAGE-CNT TO PAGE-NO.
062100     MOVE BLM-ADM TO BLM-ADM-N.
062200     MOVE RNGE-HOLD TO RNGE-SITE-N.
062300     MOVE STRATUM-HOLD TO STRATUM-N.
062400     MOVE TOT-NUM-VAL TO NUM-VAL-N.
062500     WRITE NUM-RCD.
062600     MOVE ZERO TO LINE-CNT.
062700     PERFORM 830-INITIALIZE.
062800     GO TO 015-READ.
062900 090-MOVE-SSF.
063000     MOVE TBL-LINE (SUB) TO SSF-ITEM-INS-P.
063100     IF SSF-ITEM-IN (SUB) EQUAL 99
063200         MOVE SPACES TO SSF-VALUE-P-XX
063300     ELSE MOVE SSF-ITEM-IN (SUB) TO SSF-VALUE-P.
063400     MOVE SSF-ITEM-IN (SUB) TO COUNT-2.
063500     PERFORM 510-TABLE-B.
063600     ADD COUNT-3 TO TOT-NUM-VAL.
063700     IF COUNT-3-XX EQUAL SPACES
063800         MOVE SPACES TO NUM-VALUE-P-XX
063900     ELSE MOVE COUNT-3 TO NUM-VALUE-P.
064000     MOVE SSF-DATA-LINE-1 TO PRINT-RCD.
064100     IF PAGE-CNT = 1
064200         DISPLAY SSF-DATA-LINE-1.
064300     WRITE PRINT-RCD BEFORE ADVANCING 1.
064400     ADD 1 TO LINE-CNT.
064500     ADD 1 TO SUB.
064600     IF SUB > 7
064700         MOVE 1 TO SUB
064800         GO TO 095-EXIT-SSF.
064900     GO TO 090-MOVE-SSF.
065000 095-EXIT-SSF.
065100     EXIT.
065200 400-PAGE-HDRS.
065300     IF PAGE-CNT = 1
065400         DISPLAY HDR-1
065500         DISPLAY HDR-3
065600         DISPLAY HDR-4
065700         DISPLAY HDR-5
065800         DISPLAY HDR-6
065900         DISPLAY HDR-7
066000         DISPLAY SPACES.
066100     MOVE HDR-1 TO PRINT-RCD.
066200     WRITE PRINT-RCD BEFORE ADVANCING 1.
066300     MOVE HDR-3 TO PRINT-RCD.

```

```

066400 WRITE PRINT-RCD BEFORE ADVANCING 1.
066500 MOVE HDR-4 TO PRINT-RCD.
066600 WRITE PRINT-RCD BEFORE ADVANCING 1.
066700 MOVE HDR-5 TO PRINT-RCD.
066800 WRITE PRINT-RCD BEFORE ADVANCING 1.
066900 MOVE HDR-6 TO PRINT-RCD.
067000 WRITE PRINT-RCD BEFORE ADVANCING 1.
067100 MOVE HDR-7 TO PRINT-RCD.
067200 WRITE PRINT-RCD BEFORE ADVANCING 2.
067300 ADD 8 TO LINE-CNT.
067400 405-VIGOR-HDRS.
067500 IF PAGE-CNT = 1
067600     DISPLAY HDR-9
067700     DISPLAY SPACES
067800     DISPLAY HDR-10
067900     DISPLAY HDR-11
068000     DISPLAY HDR-12.
068100 MOVE HDR-9 TO PRINT-RCD.
068200 WRITE PRINT-RCD BEFORE ADVANCING 2.
068300 MOVE HDR-10 TO PRINT-RCD.
068400 WRITE PRINT-RCD BEFORE ADVANCING 1.
068500 MOVE HDR-11 TO PRINT-RCD.
068600 WRITE PRINT-RCD BEFORE ADVANCING 1.
068700 MOVE HDR-12 TO PRINT-RCD.
068800 WRITE PRINT-RCD BEFORE ADVANCING 1.
068900 ADD 5 TO LINE-CNT.
069000 410-REPRO-HDRS.
069100 IF PAGE-CNT = 1
069200     DISPLAY PROD-HDR-1
069300     DISPLAY PROD-HDR-2.
069400 MOVE PROD-HDR-1 TO PRINT-RCD.
069500 WRITE PRINT-RCD BEFORE ADVANCING 1.
069600 MOVE PROD-HDR-2 TO PRINT-RCD.
069700 WRITE PRINT-RCD BEFORE ADVANCING 1.
069800 ADD 2 TO LINE-CNT.
069900 415-LITTER-HDRS.
070000 IF PAGE-CNT = 1
070100     DISPLAY LITTER-HDR-1
070200     DISPLAY LITTER-HDR-2.
070300 MOVE LITTER-HDR-1 TO PRINT-RCD.
070400 WRITE PRINT-RCD BEFORE ADVANCING 1.
070500 MOVE LITTER-HDR-2 TO PRINT-RCD.
070600 WRITE PRINT-RCD BEFORE ADVANCING 1.
070700 ADD 2 TO LINE-CNT.
070800 420-SSF-HDRS.
070900 IF PAGE-CNT = 1
071000     DISPLAY SSF-HDR-1
071100     DISPLAY SSF-HDR-2.
071200 MOVE SSF-HDR-1 TO PRINT-RCD.
071300 WRITE PRINT-RCD BEFORE ADVANCING 1.
071400 MOVE SSF-HDR-2 TO PRINT-RCD.
071500 WRITE PRINT-RCD BEFORE ADVANCING 1.
071600 ADD 2 TO LINE-CNT.
071700 500-LINE-CNT.
071800 IF PAGE-CNT = 1
071900     DISPLAY SPACES.
072000 MOVE SPACE TO PRINT-RCD.

```

```

072100     WRITE PRINT-RCD BEFORE ADVANCING PAGE.
072200     MOVE ZERO TO LINE-CNT.
072300     ADD 1 TO PAGE-CNT.
072400     MOVE PAGE-CNT TO PAGE-NO.
072500 505-TABLE-A.
072600     MOVE ZERO TO COUNT-2.
072700     IF COUNT-1 > ZERO AND COUNT-1 LESS THAN 26
072800         MOVE 5 TO COUNT-2.
072900     IF COUNT-1 > 25 AND COUNT-1 LESS THAN 51
073000         MOVE 10 TO COUNT-2.
073100     IF COUNT-1 > 50 AND COUNT-1 LESS THAN 76
073200         MOVE 15 TO COUNT-2.
073300     IF COUNT-1 > 75 AND COUNT-1 LESS THAN 101
073400         MOVE 20 TO COUNT-2.
073500 510-TABLE-B.
073600     MOVE ZERO TO COUNT-3.
073700     IF COUNT-2 EQUAL ZERO
073800         MOVE 3 TO COUNT-3.
073900     IF COUNT-2 > ZERO AND COUNT-2 LESS THAN 5
074000         MOVE 3 TO COUNT-3.
074100     IF COUNT-2 > 4 AND COUNT-2 LESS THAN 9
074200         MOVE 2 TO COUNT-3.
074300     IF COUNT-2 > 8 AND COUNT-2 LESS THAN 13
074400         MOVE 1 TO COUNT-3.
074500     IF COUNT-2 > 12 AND COUNT-2 LESS THAN 16
074600         MOVE ZERO TO COUNT-3.
074700     IF COUNT-2 EQUAL 99
074800         MOVE SPACES TO COUNT-3-XX.
074900 800-EDIT-ST.
075000     MOVE BLM-ADM-ST TO DE-CD-8822-DEC.
075100     MOVE 0003 TO DE-NO-8801-DEC.
075200     FIND ANY CODE-DEC.
075300     MOVE DB-STATUS TO DATA-BASE-STATUS.
075400     IF OK
075500         GET CODE-DEC
075600             MOVE DE-CD-NAM-8823-DEC TO FUNC-HOLD
075700             MOVE STATE-NAME TO ST-HDR
075800             GO TO 805-EDIT-NAMES.
075900     MOVE "UNKNOWN" TO ST-HDR, DT-HDR, RA-HDR, PLU-HDR.
076000     GO TO 825-EXIT-BLM.
076100 805-EDIT-NAMES.
076200     MOVE BLM-ADM-4 TO DE-CD-8822-DEC.
076300     MOVE 0003 TO DE-NO-8801-DEC.
076400     FIND ANY CODE-DEC.
076500     MOVE DB-STATUS TO DATA-BASE-STATUS.
076600     IF OK
076700         GET CODE-DEC
076800         GO TO 810-FIND-NAMES.
076900     MOVE "UNKNOWN" TO DT-HDR, RA-HDR, PLU-HDR.
077000     GO TO 825-EXIT-BLM.
077100 810-FIND-NAMES.
077200     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
077300     MOVE DB-STATUS TO DATA-BASE-STATUS.
077400     IF OK
077500         GET CODE-EXPL-DECE
077600         MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HOLD
077700         GO TO 815-MOVE-HDR-NAMES.

```

```

077800     MOVE "UNKNOWN" TO DT-HDR, RA-HDR, PLU-HDR.
077900     GO TO 825-EXIT-BLM.
078000 815-MOVE-HDR-NAMES.
078100     MOVE DIST-NAME TO DT-HDR.
078200     MOVE RA-NAME TO RA-HDR.
078300     MOVE PLU-NAME TO PLU-HDR.
078400 825-EXIT-BLM.
078500     EXIT.
078600 830-INITIALIZE.
078700     MOVE ZERO TO PCT-CNT-B.
078800     MOVE ZERO TO AVG-POT-D, AVG-PRES-G.
078900     MOVE ZERO TO PCT-OF-POT-I, PCT-POTEN-H.
079000     MOVE ZERO TO M-CNT, TOT-NUM-VAL.
079100     MOVE ZERO TO COUNT-1, COUNT-2, COUNT-3.
079200     MOVE ZERO TO PCT-PRODUCTION, PCT-LITTER.
079300 9090-WRAPUP.
079400     IF LINE-CNT = ZERO
079500         GO TO 9095-CLOSE.
079600     PERFORM 500-LINE-CNT.
079700 9095-CLOSE.
079800     CLOSE APPARENT-TREND-FILE
079900         NUMERIC-VALUE-FILE
080000         PRINT-FILE.
080100     FINISH.
080200     STOP RUN.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES800P.
000300*     DOMESTIC LIVESTOCK + WILDLIFE USE REPORT (P18 LIST).
000400*
000500 AUTHOR. CARLANDER.
000600 INSTALLATION.         BLM.
000700 DATE-WRITTEN.         OCTOBER, 1979.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER. LEVEL-66-ASCII.
001100 OBJECT-COMPUTER. LEVEL-66-ASCII SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400     SELECT LVSTK-HERD-FILE    ASSIGN D1
001500         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600     SELECT PRINT-FILE        ASSIGN P1-PRINTER
001700         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800     SELECT SORT-FILE ASSIGN S1.
001900 DATA DIVISION.
002000 SUB-SCHEMA SECTION.
002100 DB CODVAL2 WITHIN BLMDIC.
002200 FILE SECTION.
002300 FD LVSTK-HERD-FILE
002400     CODE-SET IS GBCD
002500     LABEL RECORDS ARE STANDARD
002600     DATA RECORDS ARE VL1X-RCD VW1X-RCD.
002700 01 VL1X-RCD.
002800     02 REC-TYP-3529-VL1X           PIC X(02).
002900     02 FMT-NUM-3576-VL1X           PIC X(01).
003000     02 FMT-CD-3579-VL1X           PIC X(01).
003100     02 SDRP-VL1X.

```

003200 03 BLM-ADM-U-ST-0003-VL1X PIC X(02).  
003300 03 BLM-ADM-U-DIST-0003-VL1X PIC X(02).  
003400 03 BLM-ADM-U-RA-0003-VL1X PIC X(02).  
003500 03 BLM-ADM-U-PLU-0003-VL1X PIC X(02).  
003600 02 DATA-DATE-6618-VL1X PIC X(06).  
003700 02 ACTN-CD-7350-VL1X PIC X(01).  
003800 02 LIN-NUM-3578-VL1X PIC X(04).  
003900 02 VL1X-DATA OCCURS 2 TIMES.  
004000 03 ALLOT-NUM-0968-VL1X PIC X(04).  
004100 03 PASTURE-NUM-3905-VL1X PIC X(02).  
004200 03 ANML-GRZG-CD-3929-VL1X PIC X(02).  
004300 03 ANML-EST-POP-3926-VL1X PIC X(05).  
004400 03 USE-DATES-3845-1ST-VL1X PIC X(04).  
004500 03 USE-DATES-3845-END-VL1X PIC X(04).  
004600 02 VL1X-OPEN PIC X(13).  
004700 01 VW1X-RCD.  
004800 02 REC-TYP-3529-VW1X PIC X(02).  
004900 02 FMT-NUM-3576-VW1X PIC X(01).  
005000 02 FMT-CD-3579-VW1X PIC X(01).  
005100 02 SDRP-VW1X.  
005200 03 BLM-ADM-U-ST-0003-VW1X PIC X(02).  
005300 03 BLM-ADM-U-DIST-0003-VW1X PIC X(02).  
005400 03 BLM-ADM-U-RA-0003-VW1X PIC X(02).  
005500 03 BLM-ADM-U-PLU-0003-VW1X PIC X(02).  
005600 02 DATA-DATE-6618-VW1X PIC X(06).  
005700 02 ACTN-CD-7350-VW1X PIC X(01).  
005800 02 LIN-NUM-3578-VW1X PIC X(04).  
005900 02 HERD-UNIT-NUM-6598-VW1X PIC X(08).  
006000 02 ALLOT-NUM-0968-VW1X PIC X(04).  
006100 02 HERD-UNIT-ALLOT-PCT-3927-VW1X PIC X(03).  
006200 02 ANML-GRZG-CD-3929-VW1X PIC X(02).  
006300 02 ANML-EST-POP-3926-VW1X PIC X(05).  
006400 02 USE-DATES-3845-1ST-VW1X PIC X(04).  
006500 02 USE-DATES-3845-END-VW1X PIC X(04).  
006600 02 SWAS-3507-VW1X.  
006700 03 SWA-3507-VW1X PIC X(04) OCCURS 5 TIMES.  
006800 02 VW1X-OPEN PIC X(05).  
006900 FD PRINT-FILE  
007000 CODE-SET IS GBCD  
007100 LABEL RECORDS ARE STANDARD  
007200 DATA RECORD IS PRINT-REC.  
007300 01 PRINT-REC PIC X(132).  
007400 SD SORT-FILE  
007500 DATA RECORD IS SORT-RCD.  
007600 01 SORT-RCD.  
007700 02 SORT-KEY.  
007800 03 ST-DIST-RA-PLU PIC X(08).  
007900 03 ALLOTMENT PIC 9(04).  
008000 03 PASTURE PIC 9(02).  
008100 03 REC-TYP PIC 9(01).  
008200 03 HERD-UNIT PIC X(08).  
008300 03 ANML-CD PIC X(02).  
008400 03 DATE-FROM PIC 9(04).  
008500 03 DATE-TO PIC 9(04).  
008600 03 NUMBIR PIC 9(05).  
008700 02 SWAS.  
008800 04 SWA PIC X(04) OCCURS 5 TIMES.

008900	02	SORT-FIL		PIC X(02).
009000		WORKING-STORAGE SECTION.		
009100	77	PAGE-CTR		PIC 9(05) VALUE ZERO.
009200	77	LINE-CTR		PIC 9(03) VALUE 56.
009300	77	LINE-LIMIT		PIC 9(03) VALUE 56.
009400	77	SWA-SUB		PIC 9(01) VALUE 1.
009500	77	SWA-CTL		PIC X(38) VALUE SPACES.
009600	77	SWA-CTL-SV		PIC X(38) VALUE SPACES.
009700	77	BLANK-LINE		PIC X(132) VALUE SPACES.
009800	77	PRINT-SUB		PIC 9(01) VALUE 0.
009900	77	SWA-WORK		PIC X(04).
010000	77	ALLOT-SV		PIC X(04) VALUE SPACES.
010100	01	WORK-DATE.		
010200	02	WD-YY		PIC X(02).
010300	02	WD-MM		PIC X(02).
010400	02	WD-DD		PIC X(02).
010500	01	COL-HDR-1.		
010600	03	FILLER	PIC X(20)	VALUE SPACES.
010700	03	FILLER	PIC X(21)	VALUE "AUTHORIZED DOMESTIC L".
010800	03	FILLER	PIC X(21)	VALUE "IVESTOCK E S T".
010900	03	FILLER	PIC X(21)	VALUE " I M A T E D W I L".
011000	03	FILLER	PIC X(21)	VALUE " D L I F E U S E ".
011100	03	FILLER	PIC X(21)	VALUE " D A T A ".
011200	03	FILLER	PIC X(7)	VALUE SPACES.
011300	01	COL-HDR-2.		
011400	03	FILLER	PIC X(21)	VALUE "ALLOTMENT PASTURE A".
011500	03	FILLER	PIC X(21)	VALUE "NIMAL PERIOD-OF-USE".
011600	03	FILLER	PIC X(21)	VALUE " NUMBER HERD-UNIT".
011700	03	FILLER	PIC X(21)	VALUE "ANIMAL PERIOD-OF-USE".
011800	03	FILLER	PIC X(21)	VALUE " NUMBER SWA'S WIT".
011900	03	FILLER	PIC X(21)	VALUE "HIN ALLOTMENT".
012000	03	FILLER	PIC X(6)	VALUE SPACES.
012100	01	DATA-LINE-1.		
012200	03	FILLER	PIC XX.	
012300	03	ALLOT-NO-P	PIC X(4).	
012400	03	FILLER	PIC X(7).	
012500	03	PASTURE-P	PIC 99	BLANK WHEN ZERO.
012600	03	FILLER	PIC X(7).	
012700	03	ANIMAL-P	PIC XX.	
012800	03	FILLER	PIC X(5).	
012900	03	PER-OF-USE-1.		
013000	05	MO-USE-1	PIC 99.	
013100	05	USE-SL-1	PIC X.	
013200	05	DY-USE-1	PIC 99.	
013300	05	FILLER	PIC X.	
013400	05	MO-USE-2	PIC 99.	
013500	05	USE-SL-2	PIC X.	
013600	05	DY-USE-2	PIC 99.	
013700	03	FILLER	PIC XXX.	
013800	03	LVSTK-NO-P	PIC ZZZZ9.	
013900	03	FILLER	PIC X(5).	
014000	03	HERD-UNIT-P	PIC X(8).	
014100	03	FILLER	PIC X(4).	
014200	03	ANIML-P	PIC XX.	
014300	03	FILLER	PIC X(5).	
014400	03	PER-O-USE-2.		
014500	05	MO-EST-1	PIC 99.	



014600		05	EST-SL-1	PIC X.
014700		05	DY-EST-1	PIC 99.
014800		05	FILLER	PIC X.
014900		05	MO-EST-2	PIC 99.
015000		05	EST-SL-2	PIC X.
015100		05	DY-EST-2	PIC 99.
015200		03	FILLER	PIC XXX.
015300		03	LVSTK-NUM-P	PIC ZZZZ9.
015400		03	FILLER	PIC X(5).
015500		03	SWAS-P.	
015600		04	SWA-P	PIC X(5) OCCURS 7 TIMES.
015700		03	FILLER	PIC X.
015800	01		HDR-1.	
015900		03	FILLER	PIC X(13) VALUE "REPORT DATE: ".
016000		03	MO-HDR	PIC X(02) VALUE " ".
016100		03	FILLER	PIC X(01) VALUE "/".
016200		03	DA-HDR	PIC X(02) VALUE " ".
016300		03	FILLER	PIC X(01) VALUE "/".
016400		03	YR-HDR	PIC X(02) VALUE " ".
016500		03	FILLER	PIC X(28) VALUE SPACES.
016600		03	FILLER	PIC X(23) VALUE "U.S.D.I. BUREAU OF LAND".
016700		03	FILLER	PIC X(11) VALUE " MANAGEMENT".
016800		03	FILLER	PIC X(22) VALUE SPACES.
016900		03	FILLER	PIC X(15) VALUE "PCN: P180 ".
017000		03	FILLER	PIC X(6) VALUE " PAGE ".
017100		03	PAGE-NO	PIC ZZ,ZZ9.
017200	01		HDR-2.	
017300		02	HL2-1	PIC X(20) VALUE " STATE ".
017400		02	HL2-ST	PIC X(10) VALUE " ".
017500		02	HL2-2	PIC X(24) VALUE " SOIL ".
017600		02	HL2-3	PIC X(25) VALUE "ECOLOGICAL SITE INVENTORY".
017700	01		HDR-3.	
017800		02	HL3-1	PIC X(20) VALUE " DISTRICT ".
017900		02	HL3-DS	PIC X(12) VALUE " ".
018000	01		HDR-4.	
018100		02	HL4-1	PIC X(20) VALUE " RESOURCE AREA ".
018200		02	HL4-RA	PIC X(13) VALUE " ".
018300		02	HL4-2	PIC X(24) VALUE " DOMESTIC LI".
018400		02	HL4-3	PIC X(24) VALUE "VESTOCK AND WILDLIFE USE".
018500		02	HL4-4	PIC X(04) VALUE "DATA".
018600	01		HDR-5.	
018700		02	HL5-1	PIC X(20) VALUE " PLANNING UNIT ".
018800		02	HL5-PU	PIC X(15) VALUE " ".
018900	01		CTL.	
019000		02	C-ST	PIC X(02).
019100		02	C-DS	PIC X(02).
019200		02	C-RA	PIC X(02).
019300		02	C-PU	PIC X(02).
019400	01		CTL-SV	PIC X(08) VALUE SPACES.
019500	01		USE-DATE-WK.	
019600		02	UDW-MM	PIC X(02).
019700		02	UDW-YY	PIC X(02).
019800	01		EXPL-HOLD.	
019900		02	EH-DS	PIC X(12).
020000		02	EH-RA	PIC X(13).
020100		02	EH-PU	PIC X(15).
020200			COPY DBSTATUS OF TPCOBLIB.	

```

020300 PROCEDURE DIVISION.
020400 000-DRIVER SECTION.
020500 010-MAINLINE.
020600     PERFORM 100-INITIALIZE.
020700     PERFORM 200-SORT.
020800     PERFORM 900-TERMINATE.
020900     STOP RUN.
021000 100-INITIALIZE SECTION.
021100 110-OPENS.
021200     OPEN INPUT LVSTK-HERD-FILE
021300         OUTPUT PRINT-FILE.
021400     READY DIC-DE.
021500     ACCEPT WORK-DATE FROM DATE.
021600     MOVE WD-MM     TO MO-HDR.
021700     MOVE WD-DD     TO DA-HDR.
021800     MOVE WD-YY     TO YR-HDR.
021900     MOVE SPACES TO DATA-LINE-1.
022000 200-SORT SECTION.
022100 210-SORT-VERB.
022200     SORT SORT-FILE
022300         ASCENDING KEY ST-DIST-RA-PLU ALLOTMENT PASTURE
022400             REC-TYP HERD-UNIT ANML-CD DATE-FROM
022500             DATE-TO NUMBIR
022600             INPUT PROCEDURE 300-INPUT-PROC
022700             OUTPUT PROCEDURE 400-OUTPUT-PROC.
022800 300-INPUT-PROC SECTION.
022900 310-INP-MAINLINE.
023000     PERFORM 320-RD-PROCESS
023100         UNTIL REC-TYP-3529-VL1X = "99".
023200     GO TO 300-OUT.
023300 320-RD-PROCESS.
023400     PERFORM 330-RD-LW.
023500     PERFORM 340-CHEK-TYPE.
023600 330-RD-LW.
023700     READ LVSTK-HERD-FILE AT END
023800         MOVE ALL "9" TO VL1X-RCD.
023900 340-CHEK-TYPE.
024000     IF REC-TYP-3529-VL1X = "VL"
024100         PERFORM 360-PROCESS-VL.
024200     IF REC-TYP-3529-VL1X = "VW"
024300         PERFORM 350-PROCESS-VW.
024400 350-PROCESS-VW.
024500     MOVE SDRP-VW1X           TO ST-DIST-RA-PLU.
024600     MOVE ALLOT-NUM-0968-VW1X TO ALLOTMENT.
024700     MOVE HERD-UNIT-NUM-6598-VW1X TO HERD-UNIT.
024800     MOVE ANML-GRZG-CD-3929-VW1X TO ANML-CD.
024900     MOVE USE-DATES-3845-1ST-VW1X TO DATE-FROM.
025000     MOVE USE-DATES-3845-END-VW1X TO DATE-TO.
025100     MOVE ANML-EST-POP-3926-VW1X TO NUMBIR.
025200     MOVE SWAS-3507-VW1X         TO SWAS.
025300     MOVE 2                     TO REC-TYP.
025400     MOVE SPACES                TO SORT-FIL.
025500     MOVE ZERO                  TO PASTURE.
025600     RELEASE SORT-RCD.
025700 360-PROCESS-VL.
025800     MOVE SDRP-VL1X           TO ST-DIST-RA-PLU.
025900     MOVE ALLOT-NUM-0968-VL1X (1) TO ALLOTMENT.

```

```

026000 MOVE PASTURE-NUM-3905-VL1X (1) TO PASTURE.
026100 MOVE "1" TO REC-TYP.
026200 MOVE SPACES TO HERD-UNIT.
026300 MOVE ANML-GRZG-CD-3929-VL1X (1) TO ANML-CD.
026400 MOVE USE-DATES-3845-1ST-VL1X (1) TO DATE-FROM.
026500 MOVE USE-DATES-3845-END-VL1X (1) TO DATE-TO.
026600 MOVE ANML-EST-POP-3926-VL1X (1) TO NUMBIR.
026700 MOVE SPACES TO SWA (1) SWA (2) SWA (3)
026800 SWA (4) SWA (5) SORT-FIL.
026900 RELEASE SORT-RCD.
027000 IF ANML-GRZG-CD-3929-VL1X (2) NOT = SPACES
027100 MOVE SPACES TO SORT-RCD
027200 MOVE SDRP-VL1X TO ST-DIST-RA-PLU
027300 MOVE ALLOT-NUM-0968-VL1X (2) TO ALLOTMENT
027400 MOVE PASTURE-NUM-3905-VL1X (2) TO PASTURE
027500 MOVE "1" TO REC-TYP
027600 MOVE ANML-GRZG-CD-3929-VL1X (2) TO ANML-CD
027700 MOVE USE-DATES-3845-1ST-VL1X (2) TO DATE-FROM
027800 MOVE USE-DATES-3845-END-VL1X (2) TO DATE-TO
027900 MOVE ANML-EST-POP-3926-VL1X (2) TO NUMBIR
028000 RELEASE SORT-RCD.
028100 300-OUT.
028200 EXIT.
028300 400-OUTPUT-PROC SECTION.
028400 410-DRIVER.
028500 PERFORM 420-RETURN-RCD UNTIL REC-TYP = 9.
028600 PERFORM 800-PRINT-DETAIL.
028700 GO TO 400-EXIT.
028800 420-RETURN-RCD.
028900 RETURN SORT-FILE AT END
029000 MOVE ALL "9" TO SORT-RCD.
029100 MOVE ST-DIST-RA-PLU TO CTL.
029200 IF CTL NOT = CTL-SV AND
029300 REC-TYP NOT = 9
029400 PERFORM 810-OVERFLOW-RTN.
029500 MOVE CTL TO CTL-SV.
029600 IF REC-TYP = 1
029700 PERFORM 430-PROCESS-VL-RCD.
029800 IF REC-TYP = 2
029900 PERFORM 440-PROCESS-VW-RCD.
030000 430-PROCESS-VL-RCD.
030100 PERFORM 800-PRINT-DETAIL.
030200 MOVE ALLOTMENT TO ALLOT-NO-P.
030300 MOVE PASTURE TO PASTURE-P.
030400 MOVE ANML-CD TO ANIMAL-P.
030500 MOVE DATE-FROM TO USE-DATE-WK.
030600 MOVE UDW-MM TO MO-USE-1.
030700 MOVE UDW-YY TO DY-USE-1.
030800 MOVE "/" TO USE-SL-1.
030900 MOVE DATE-TO TO USE-DATE-WK.
031000 MOVE UDW-MM TO MO-USE-2.
031100 MOVE UDW-YY TO DY-USE-2.
031200 MOVE "/" TO USE-SL-2.
031300 MOVE NUMBIR TO LVSTK-NO-P.
031400 IF ALLOT-NO-P = ALLOT-SV
031500 MOVE SPACES TO ALLOT-NO-P.
031600 MOVE ALLOTMENT TO ALLOT-SV.

```

```

031700     PERFORM 800-PRINT-DETAIL.
031800 440-PROCESS-VW-RCD.
031900     MOVE SORT-RCD           TO SWA-CTL.
032000     IF SWA-CTL > SWA-CTL-SV
032100         PERFORM 800-PRINT-DETAIL
032200         PERFORM 520-BUILD-PRINT-RIGHT
032300         MOVE 0           TO PRINT-SUB.
032400     MOVE SWA-CTL TO SWA-CTL-SV.
032500     PERFORM 450-PROCESS-1ST-SWA.
032600     PERFORM 460-PROCESS-2ND-SWA.
032700     PERFORM 470-PROCESS-3RD-SWA.
032800     PERFORM 480-PROCESS-4TH-SWA.
032900     PERFORM 490-PROCESS-5TH-SWA.
033000 450-PROCESS-1ST-SWA.
033100     IF SWA (1) = "9999"
033200         MOVE "ALL SWAS WITHIN ALLOTMENT" TO SWAS-P
033300         PERFORM 800-PRINT-DETAIL
033400         MOVE 0 TO PRINT-SUB
033500     ELSE
033600         MOVE SWA (1) TO SWA-WORK
033700         PERFORM 500-MOVE-SWA-TO-PRT.
033800 460-PROCESS-2ND-SWA.
033900     MOVE SWA (2) TO SWA-WORK.
034000     PERFORM 500-MOVE-SWA-TO-PRT.
034100 470-PROCESS-3RD-SWA.
034200     MOVE SWA (3) TO SWA-WORK.
034300     PERFORM 500-MOVE-SWA-TO-PRT.
034400 480-PROCESS-4TH-SWA.
034500     MOVE SWA (4) TO SWA-WORK.
034600     PERFORM 500-MOVE-SWA-TO-PRT.
034700 490-PROCESS-5TH-SWA.
034800     MOVE SWA (5) TO SWA-WORK.
034900     PERFORM 500-MOVE-SWA-TO-PRT.
035000 500-MOVE-SWA-TO-PRT.
035100     IF SWA-WORK NOT = SPACES
035200         PERFORM 510-SET-PRINT-SUB.
035300     IF SWA-WORK NOT = SPACES
035400         MOVE SWA-WORK TO SWA-P (PRINT-SUB).
035500 510-SET-PRINT-SUB.
035600     ADD 1 TO PRINT-SUB.
035700     IF PRINT-SUB > 7
035800         PERFORM 800-PRINT-DETAIL
035900         MOVE 1 TO PRINT-SUB.
036000 520-BUILD-PRINT-RIGHT.
036100     MOVE HERD-UNIT           TO HERD-UNIT-P.
036200     MOVE ANML-CD             TO ANIML-P.
036300     MOVE DATE-FROM           TO USE-DATE-WK.
036400     MOVE UDW-MM              TO MO-EST-1.
036500     MOVE UDW-YY              TO DY-EST-1.
036600     MOVE DATE-TO             TO USE-DATE-WK.
036700     MOVE UDW-MM              TO MO-EST-2.
036800     MOVE UDW-YY              TO DY-EST-2.
036900     MOVE NUMBIR             TO LVSTK-NUM-P.
037000     MOVE "/"              TO EST-SL-1 EST-SL-2.
037100 800-PRINT-DETAIL.
037200     IF DATA-LINE-1 NOT EQUAL SPACES
037300         ADD 1 TO LINE-CTR.

```

```

037400     IF LINE-CTR > LINE-LIMIT AND
037500         REC-TYP NOT = 9
037600         PERFORM 810-OVERFLOW-RTN.
037700     IF DATA-LINE-1 NOT EQUAL SPACES
037800         WRITE PRINT-REC FROM DATA-LINE-1 AFTER 1
037900         IF PAGE-CTR = 1
038000             DISPLAY DATA-LINE-1.
038100     MOVE SPACES TO DATA-LINE-1.
038200 810-OVERFLOW-RTN.
038300     ADD 1 TO PAGE-CTR.
038400     MOVE PAGE-CTR TO PAGE-NO.
038500     PERFORM 820-BUILD-ST-DS-RA-PU.
038600     IF PAGE-CTR = 1
038700         DISPLAY HDR-1
038800         DISPLAY HDR-2
038900         DISPLAY HDR-3
039000         DISPLAY HDR-4
039100         DISPLAY HDR-5
039200         DISPLAY SPACES
039300         DISPLAY COL-HDR-1
039400         DISPLAY COL-HDR-2
039500         DISPLAY BLANK-LINE.
039600     WRITE PRINT-REC FROM HDR-1     AFTER PAGE.
039700     WRITE PRINT-REC FROM HDR-2     AFTER 1.
039800     WRITE PRINT-REC FROM HDR-3     AFTER 1.
039900     WRITE PRINT-REC FROM HDR-4     AFTER 1.
040000     WRITE PRINT-REC FROM HDR-5     AFTER 1.
040100     WRITE PRINT-REC FROM COL-HDR-1     AFTER 2.
040200     WRITE PRINT-REC FROM COL-HDR-2     AFTER 1.
040300     WRITE PRINT-REC FROM BLANK-LINE     AFTER 1.
040400     MOVE 10 TO LINE-CTR.
040500 820-BUILD-ST-DS-RA-PU.
040600     MOVE CTL TO DE-CD-8822-DEC.
040700     MOVE 0003 TO DE-NO-8801-DEC.
040800     FIND ANY CODE-DEC.
040900     MOVE DB-STATUS TO DATA-BASE-STATUS.
041000     IF OK
041100         GET CODE-DEC
041200         MOVE DE-CD-NAM-8823-DEC TO HL2-ST
041300         PERFORM 830-GET-DS-RA-PU
041400     ELSE
041500         MOVE "UNKNOWN" TO HL3-DS HL4-RA HL5-PU HL2-ST.
041600 830-GET-DS-RA-PU.
041700     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
041800     MOVE DB-STATUS TO DATA-BASE-STATUS.
041900     IF OK
042000         GET CODE-EXPL-DECE
042100         MOVE DE-CD-EXPLN-8827-DECE     TO EXPL-HOLD
042200         MOVE EH-DS                       TO HL3-DS
042300         MOVE EH-RA                       TO HL4-RA
042400         MOVE EH-PU                       TO HL5-PU
042500     ELSE
042600         MOVE "UNKNOWN"                   TO HL3-DS HL4-RA HL5-PU.
042700 400-EXIT.
042800     EXIT.
042900 900-TERMINATE SECTION.
043000 910-CLOSE.

```

```

043100     FINISH DIC-DE.
043200     CLOSE LVSTK-HERD-FILE PRINT-FILE.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES910U.
000300*     INITIAL EDIT/UPDATE OF SUIT. FOR LIVESTOCK GRAZING (VI).
000400*
000500 AUTHOR. CARLANDER, RON BAKER.
000600 INSTALLATION.           BLM.
000700 DATE-WRITTEN.           SEPTEMBER, 1979.
000800 ENVIRONMENT DIVISION.
000900 CONFIGURATION SECTION.
001000 SOURCE-COMPUTER.        LEVEL-66-ASCII.
001100 OBJECT-COMPUTER.        LEVEL-66-ASCII SEQUENCE IS EBCDIC.
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400     SELECT NEW-FILE ASSIGN D1
001500             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001600     SELECT TRAN-FILE ASSIGN I1
001700             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001800     SELECT OPTIONAL PREV-FILE ASSIGN I2
001900             ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
002000     SELECT SORT-WORK ASSIGN I1 I2 I3.
002100 DATA DIVISION.
002200 FILE SECTION.
002300 FD  PREV-FILE
002400     CODE-SET IS GBCD
002500     LABEL RECORDS ARE STANDARD
002600     DATA RECORD IS VI1X-RCD.
002700 01  VI1X-RCD.
002800     02  KEY-VI1X.
002900         03  DIC-VI1X.
003000             04  REC-TYP-3529-VI1X    PIC X(02).
003100             04  FMT-NUM-3576-VI1X    PIC X(01).
003200             04  FMT-CD-3579-VI1X    PIC X(01).
003300         03  BLM-ADM-U-0003-VI1X.
003400             04  BLM-ADM-U-0003-ST-VI1X    PIC X(02).
003500             04  BLM-ADM-U-0003-DIST-VI1X    PIC X(02).
003600             04  BLM-ADM-U-0003-RA-VI1X    PIC X(02).
003700             04  BLM-ADM-U-0003-PLU-VI1X    PIC X(02).
003800         03  ALLOT-NUM-0968-VI1X    PIC X(04).
003900         03  PASTURE-NUM-3905-VI1X    PIC X(02).
004000         03  DATA-DATE-6618-VI1X.
004100             04  DATA-DATE-6618-XY-VI1X    PIC X(02).
004200             04  DATA-DATE-6618-MM-VI1X    PIC X(02).
004300             04  DATA-DATE-6618-DD-VI1X    PIC X(02).
004400         03  ACTN-CD-7350-VI1X    PIC X(01).
004500         03  LIN-NUM-3578-VI1X    PIC X(04).
004600     02  VI1X-DATA OCCURS 2 TIMES.
004700         03  SWA-3507-VI1X    PIC X(04).
004800         03  SFL-PCT-3925-VI1X    PIC X(03) OCCURS 4 TIMES.
004900     02  OPEN-VI1X    PIC X(05).
005000 SD  SORT-WORK
005100     DATA RECORD IS SORT-RCD.
005200 01  SORT-RCD.
005300     03  KEY1-SR.
005400         05  RECD-ID-SR    PIC XXXX.

```

005500		05	SDRP-SR		PIC X(8).
005600		05	ALOT-SR		PIC XXXX.
005700		05	PAST-SR		PIC XX.
005800	03		KEY2-SR.		
005900		05	LINE-SR		PIC XXXX.
006000		05	SWA-SR		PIC XXXX.
006100	03		REC-HLD-SR.		
006200		05	FILLER	PIC X(29).	
006300		05	DATA-SR	PIC X(37).	
006400	FD		TRAN-FILE		
006500			CODE-SET IS GBCD		
006600			LABEL RECORDS ARE STANDARD		
006700			DATA RECORD IS VI1K-RCD.		
006800	01		VI1K-RCD.		
006900		02	KEY-VI1K.		
007000		03	DIC-VI1K.		
007100		04	REC-TYP-3529-VI1K	PIC X(02).	
007200		04	FMT-NUM-3576-VI1K	PIC X(01).	
007300		04	FMT-CD-3579-VI1K	PIC X(01).	
007400	03		BLM-ADM-U-0003-VI1K.		
007500		04	BLM-ADM-U-0003-ST-VI1K	PIC X(02).	
007600		04	BLM-ADM-U-0003-DIST-VI1K	PIC X(02).	
007700		04	BLM-ADM-U-0003-RA-VI1K	PIC X(02).	
007800		04	BLM-ADM-U-0003-PLU-VI1K	PIC X(02).	
007900	03		ALLOT-NUM-0968-VI1K	PIC X(04).	
008000	03		PASTURE-NUM-3905-VI1K	PIC X(02).	
008100	03		DATA-DATE-6618-VI1K.		
008200		04	DATA-DATE-6618-XY-VI1K	PIC X(02).	
008300		04	DATA-DATE-6618-MM-VI1K	PIC X(02).	
008400		04	DATA-DATE-6618-DD-VI1K	PIC X(02).	
008500	03		ACTN-CD-7350-VI1K	PIC X(01).	
008600	03		LIN-NUM-3578-VI1K	PIC X(04).	
008700	02		VI1K-DATA OCCURS 2 TIMES.		
008800	03		SWA-3507-VI1K	PIC X(04).	
008900	03		SFL-PCT-3925-VI1K	PIC X(03) OCCURS 4 TIMES.	
009000	02		OPEN-VI1K	PIC X(05).	
009100	FD		NEW-FILE		
009200			CODE-SET IS GBCD		
009300			LABEL RECORDS ARE STANDARD		
009400			DATA RECORD IS VI1Z-RCD.		
009500	01		VI1Z-RCD.		
009600		02	KEY-VI1Z.		
009700		03	DIC-VI1Z.		
009800		04	REC-TYP-3529-VI1Z	PIC X(02).	
009900		04	FMT-NUM-3576-VI1Z	PIC X(01).	
010000		04	FMT-CD-3579-VI1Z	PIC X(01).	
010100	03		BLM-ADM-U-0003-VI1Z.		
010200		04	BLM-ADM-U-0003-ST-VI1Z	PIC X(02).	
010300		04	BLM-ADM-U-0003-DIST-VI1Z	PIC X(02).	
010400		04	BLM-ADM-U-0003-RA-VI1Z	PIC X(02).	
010500		04	BLM-ADM-U-0003-PLU-VI1Z	PIC X(02).	
010600	03		ALLOT-NUM-0968-VI1Z	PIC X(04).	
010700	03		PASTURE-NUM-3905-VI1Z	PIC X(02).	
010800	03		DATA-DATE-6618-VI1Z.		
010900		04	DATA-DATE-6618-XY-VI1Z	PIC X(02).	
011000		04	DATA-DATE-6618-MM-VI1Z	PIC X(02).	
011100		04	DATA-DATE-6618-DD-VI1Z	PIC X(02).	

```

011200      03  ACTN-CD-7350-VI1Z          PIC X(01).
011300      03  LIN-NUM-3578-VI1Z        PIC X(04).
011400      02  VI1Z-DATA OCCURS 2 TIMES.
011500      03  SWA-3507-VI1Z          PIC X(04).
011600      03  SFL-PCT-3925-VI1Z      PIC X(03) OCCURS 4 TIMES.
011700      02  OPEN-VI1Z              PIC X(05).
011800 WORKING-STORAGE SECTION.
011900 77  END-OF-TRAN                  PIC X(01) VALUE SPACE.
012000 77  END-OF-PREV                  PIC X(01) VALUE SPACE.
012100 77  DATE-SW                      PIC X(01).
012200 77  DATE-MV-SW                  PIC X(01).
012300 77  LAST-LIN-NUM                PIC 9(04) VALUE ZERO.
012400 77  TODAYS-DATE                  PIC X(06).
012500 77  VI-CTR                      PIC 9(5)  VALUE ZERO.
012600 01  PARAMETER.
012700      03  RELINE-CHK              PIC XXX.
012800      03  FILLER                  PIC X(77).
012900 01  DATE-WORK.
013000      02  DW-YY                  PIC X(02).
013100      02  DW-MM                  PIC X(02).
013200      02  DW-DD                  PIC X(02).
013300 01  MOVED-DATE.
013400      02  MD-DD                  PIC X(02).
013500      02  MD-YY                  PIC X(02).
013600      02  MD-MM                  PIC X(02).
013700 01  TRAN-CTL.
013800      03  KEY1-TC                 PIC X(18).
013900      03  LINE-TC                 PIC XXXX.
014000 01  PREV-CTL.
014100      03  RECD-ID-PC              PIC XXXX.
014200      03  SDRP-PC                 PIC X(8).
014300      03  ALOT-PC                 PIC XXXX.
014400      03  PAST-PC                 PIC XX.
014500      03  LINE-PC                 PIC XXXX.
014600 01  LINE-CTL                    PIC X(18).
014700 01  LINE-CTL-SAVE                PIC X(18) VALUE SPACES.
014800 PROCEDURE DIVISION.
014900 000-DRIVER SECTION.
015000 010-MAINLINE.
015100      PERFORM 100-INITIALIZE.
015200      PERFORM 200-SORT.
015300      PERFORM 990-TERMINATE.
015400      STOP RUN.
015500 100-INITIALIZE SECTION.
015600 110-OPENS.
015700      OPEN INPUT PREV-FILE TRAN-FILE
015800          OUTPUT NEW-FILE.
015900      MOVE ALL "9" TO PREV-CTL.
016000      ACCEPT TODAYS-DATE FROM DATE.
016100      ACCEPT PARAMETER.
016200 200-SORT SECTION.
016300 210-SORT-VERB.
016400      SORT SORT-WORK ASCENDING KEY KEY1-SR KEY2-SR
016500          INPUT PROCEDURE 300-READ-RELEASE
016600          OUTPUT PROCEDURE 400-MATCH-UPDATE.
016700 300-READ-RELEASE SECTION.
016800 300-READ-TRAN.

```



```

016900 READ TRAN-FILE AT END GO TO 300-EXIT.
017000 IF ACTN-CD-7350-VI1K = SPACE
017100     MOVE "A" TO ACTN-CD-7350-VI1K.
017200 IF (LIN-NUM-3578-VI1K NOT NUMERIC)
017300     OR (LIN-NUM-3578-VI1K = ZERO)
017400     OR (RELINE-CHK = "YES")
017500     MOVE "9999" TO LIN-NUM-3578-VI1K.
017600 MOVE VI1K-RCD TO REC-HLD-SR.
017700 MOVE DIC-VI1K TO RECD-ID-SR
017800 MOVE BLM-ADM-U-0003-VI1K TO SDRP-SR.
017900 MOVE ALLOT-NUM-0968-VI1K TO ALOT-SR.
018000 MOVE PASTURE-NUM-3905-VI1K TO PAST-SR.
018100 MOVE LIN-NUM-3578-VI1K TO LINE-SR.
018200 MOVE SWA-3507-VI1K (1) TO SWA-SR.
018300 RELEASE SORT-RCD.
018400 GO TO 300-READ-TRAN.
018500 300-EXIT.
018600 EXIT.
018700 400-MATCH-UPDATE SECTION.
018800 410-GET-FIRST-RCDS.
018900     PERFORM 430-RETURN-SORT.
019000     PERFORM 440-READ-PREV.
019100 420-COMPARE.
019200     IF TRAN-CTL = ALL "9" AND
019300         PREV-CTL = ALL "9"
019400         GO TO 400-EXIT.
019500     IF TRAN-CTL IS GREATER THAN PREV-CTL
019600         PERFORM 500-NO-TRAN
019700         GO TO 420-COMPARE.
019800     IF PREV-CTL IS GREATER THAN TRAN-CTL
019900         PERFORM 600-NO-PREV
020000         GO TO 420-COMPARE.
020100     IF TRAN-CTL IS EQUAL TO PREV-CTL
020200         PERFORM 700-MATCH
020300         GO TO 420-COMPARE.
020400 430-RETURN-SORT.
020500     RETURN SORT-WORK AT END
020600         MOVE "X" TO END-OF-TRAN.
020700     MOVE KEY1-SR TO KEY1-TC.
020800     MOVE LINE-SR TO LINE-TC.
020900     IF END-OF-TRAN = "X"
021000         MOVE ALL "9" TO TRAN-CTL.
021100 440-READ-PREV.
021200     READ PREV-FILE AT END
021300         MOVE "X" TO END-OF-PREV.
021400     MOVE DIC-VI1X TO RECD-ID-PC
021500     MOVE BLM-ADM-U-0003-VI1X TO SDRP-PC.
021600     MOVE ALLOT-NUM-0968-VI1X TO ALOT-PC.
021700     MOVE PASTURE-NUM-3905-VI1X TO PAST-PC.
021800     MOVE LIN-NUM-3578-VI1X TO LINE-PC.
021900     IF END-OF-PREV = "X"
022000         MOVE ALL "9" TO PREV-CTL.
022100 500-NO-TRAN.
022200     MOVE VI1X-RCD TO VI1Z-RCD.
022300     ADD 1 TO VI-CTR.
022400     PERFORM 920-WRITE-Z.
022500     PERFORM 440-READ-PREV.

```

```

022600 600-NO-PREV.
022700     MOVE REC-HLD-SR TO VI1Z-RCD.
022800     ADD 1 TO VI-CTR.
022900     PERFORM 810-BUILD-LIN.
023000     PERFORM 820-CHECK-LIN THRU 820-OUT.
023100     PERFORM 890-EDIT-DATE.
023200     PERFORM 920-WRITE-Z.
023300     PERFORM 430-RETURN-SORT.
023400 700-MATCH.
023500     MOVE VI1X-RCD TO VI1Z-RCD.
023600     PERFORM 890-EDIT-DATE.
023700     MOVE REC-HLD-SR TO VI1K-RCD.
023800     IF (DATA-SR NOT = SPACES)
023900         PERFORM 850-MOVE-FIELDS
024000         PERFORM 810-BUILD-LIN
024100         ADD 1 TO VI-CTR
024200         PERFORM 920-WRITE-Z.
024300     PERFORM 430-RETURN-SORT.
024400     PERFORM 440-READ-PREV.
024500 810-BUILD-LIN.
024600     IF LIN-NUM-3578-VI1Z NOT NUMERIC
024700         MOVE "9999" TO LIN-NUM-3578-VI1Z.
024800 820-CHECK-LIN.
024900     IF LIN-NUM-3578-VI1Z NOT = "9999"
025000         GO TO 820-OUT.
025100     MOVE VI1Z-RCD TO LINE-CTL.
025200     IF LINE-CTL NOT = LINE-CTL-SAVE
025300         MOVE 0001 TO LAST-LIN-NUM
025400         MOVE "0001" TO LIN-NUM-3578-VI1Z ELSE
025500         ADD 1 TO LAST-LIN-NUM
025600         MOVE LAST-LIN-NUM TO LIN-NUM-3578-VI1Z.
025700     MOVE LINE-CTL TO LINE-CTL-SAVE.
025800 820-OUT.
025900     EXIT.
026000 850-MOVE-FIELDS.
026100     IF SWA-3507-VI1K (1) = SPACES
026200         NEXT SENTENCE
026300     ELSE
026400         IF SWA-3507-VI1K (1) = "*****"
026500             MOVE SPACES TO SWA-3507-VI1Z (1)
026600         ELSE
026700             MOVE SWA-3507-VI1K (1) TO SWA-3507-VI1Z (1).
026800     IF SWA-3507-VI1K (2) = SPACES
026900         NEXT SENTENCE
027000     ELSE
027100         IF SWA-3507-VI1K (2) = "*****"
027200             MOVE SPACES TO SWA-3507-VI1Z (2)
027300         ELSE
027400             MOVE SWA-3507-VI1K (2) TO SWA-3507-VI1Z (2).
027500     IF SFL-PCT-3925-VI1K (1 1) = SPACES
027600         NEXT SENTENCE
027700     ELSE
027800         IF SFL-PCT-3925-VI1K (1 1) = "****"
027900             MOVE SPACES TO SFL-PCT-3925-VI1Z (1 1)
028000         ELSE
028100             MOVE SFL-PCT-3925-VI1K (1 1) TO SFL-PCT-3925-VI1Z (1 1).
028200     IF SFL-PCT-3925-VI1K (1 2) = SPACES

```

```

028300     NEXT SENTENCE
028400     ELSE
028500     IF SFL-PCT-3925-VI1K (1 2) = "****"
028600         MOVE SPACES TO SFL-PCT-3925-VI1Z (1 2)
028700     ELSE
028800         MOVE SFL-PCT-3925-VI1K (1 2) TO SFL-PCT-3925-VI1Z (1 2).
028900 IF SFL-PCT-3925-VI1K (1 3) = SPACES
029000     NEXT SENTENCE
029100     ELSE
029200     IF SFL-PCT-3925-VI1K (1 3) = "****"
029300         MOVE SPACES TO SFL-PCT-3925-VI1Z (1 3)
029400     ELSE
029500         MOVE SFL-PCT-3925-VI1K (1 3) TO SFL-PCT-3925-VI1Z (1 3).
029600 IF SFL-PCT-3925-VI1K (1 4) = SPACES
029700     NEXT SENTENCE
029800     ELSE
029900     IF SFL-PCT-3925-VI1K (1 4) = "****"
030000         MOVE SPACES TO SFL-PCT-3925-VI1Z (1 4)
030100     ELSE
030200         MOVE SFL-PCT-3925-VI1K (1 4) TO SFL-PCT-3925-VI1Z (1 4).
030300 IF SFL-PCT-3925-VI1K (2 1) = SPACES
030400     NEXT SENTENCE
030500     ELSE
030600     IF SFL-PCT-3925-VI1K (2 1) = "****"
030700         MOVE SPACES TO SFL-PCT-3925-VI1Z (2 1)
030800     ELSE
030900         MOVE SFL-PCT-3925-VI1K (2 1) TO SFL-PCT-3925-VI1Z (2 1).
031000 IF SFL-PCT-3925-VI1K (2 2) = SPACES
031100     NEXT SENTENCE
031200     ELSE
031300     IF SFL-PCT-3925-VI1K (2 2) = "****"
031400         MOVE SPACES TO SFL-PCT-3925-VI1Z (2 2)
031500     ELSE
031600         MOVE SFL-PCT-3925-VI1K (2 2) TO SFL-PCT-3925-VI1Z (2 2).
031700 IF SFL-PCT-3925-VI1K (2 3) = SPACES
031800     NEXT SENTENCE
031900     ELSE
032000     IF SFL-PCT-3925-VI1K (2 3) = "****"
032100         MOVE SPACES TO SFL-PCT-3925-VI1Z (2 3)
032200     ELSE
032300         MOVE SFL-PCT-3925-VI1K (2 3) TO SFL-PCT-3925-VI1Z (2 3).
032400 IF SFL-PCT-3925-VI1K (2 4) = SPACES
032500     NEXT SENTENCE
032600     ELSE
032700     IF SFL-PCT-3925-VI1K (2 4) = "****"
032800         MOVE SPACES TO SFL-PCT-3925-VI1Z (2 4)
032900     ELSE
033000         MOVE SFL-PCT-3925-VI1K (2 4) TO SFL-PCT-3925-VI1Z (2 4).
033100 890-EDIT-DATE.
033200     MOVE SPACE TO DATE-MV-SW.
033300     MOVE DATA-DATE-6618-VI1Z TO DATE-WORK.
033400     PERFORM 900-EDIT-FIELDS.
033500     IF DATE-SW NOT = " "
033600         PERFORM 910-SWITCH-FIELDS
033700         PERFORM 900-EDIT-FIELDS.
033800     IF DATE-SW NOT = " "
033900         MOVE TODAYS-DATE TO DATA-DATE-6618-VI1Z.

```

```

034000     IF DATE-MV-SW NOT = " "
034100         MOVE MOVED-DATE TO DATA-DATE-6618-VI1Z.
034200 900-EDIT-FIELDS.
034300     MOVE SPACE TO DATE-SW.
034400     IF DW-MM NOT NUMERIC OR
034500         DW-MM > "12"         OR
034600         DW-MM < "01"
034700         MOVE "X" TO DATE-SW.
034800     IF DW-DD NOT NUMERIC OR
034900         DW-DD > "31"         OR
035000         DW-DD < "01"
035100         MOVE "X" TO DATE-SW.
035200     IF DW-YY NOT NUMERIC OR
035300         DW-YY < "78"
035400         MOVE "X" TO DATE-SW.
035500 910-SWITCH-FIELDS.
035600     MOVE " " TO DATE-MV-SW.
035700     IF DW-DD = "78" OR "79" OR "80" OR "81" OR "82"
035800         MOVE DW-MM TO MD-MM
035900         MOVE DW-DD TO MD-DD
036000         MOVE DW-YY TO MD-YY
036100         MOVE "X" TO DATE-MV-SW.
036200 920-WRITE-Z.
036300     MOVE LIN-NUM-3578-VI1Z TO LAST-LIN-NUM.
036400     MOVE VI1Z-RCD TO LINE-CTL.
036500     MOVE LINE-CTL TO LINE-CTL-SAVE.
036600     MOVE SPACE TO OPEN-VI1Z.
036700     MOVE "A" TO ACTN-CD-7350-VI1Z.
036800     WRITE VI1Z-RCD.
036900 400-EXIT.
037000     EXIT.
037100 990-TERMINATE SECTION.
037200 990-PRINT.
037300     DISPLAY "VI RCDS"
037400     DISPLAY " " VI-CTR.
037500 990-CLOSE.
037600     CLOSE TRAN-FILE PREV-FILE NEW-FILE.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES915P.
000300*     VI VERIFICATION LIST.
000400*
000500 AUTHOR. CORA FISCHER.
000600 INSTALLATION.
000700 DATE-WRITTEN. 8/27/80.
000800 DATE-COMPILED.
000900 ENVIRONMENT DIVISION.
001000 CONFIGURATION SECTION.
001100 SOURCE-COMPUTER. LEVEL-66-ASCII.
001200 OBJECT-COMPUTER. LEVEL-66-ASCII.
001300 INPUT-OUTPUT SECTION.
001400 FILE-CONTROL.
001500     SELECT INPUT-FILE1 ASSIGN TO I1-ES910UD1
001600         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001700     SELECT PRINT-FILE ASSIGN TO P1-PRINTER
001800         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.
001900     SELECT SORT-FILE ASSIGN TO S1.

```

002000 DATA DIVISION.  
002100 SUB-SCHEMA SECTION.  
002200 DB CODVAL2 WITHIN BLMDIC.  
002300 FILE SECTION.  
002400 FD INPUT-FILE1 CODE-SET IS GBCD  
002500 LABEL RECORDS ARE STANDARD  
002600 DATA RECORD IS FDR-VI.  
002700 01 FDR-VI.  
002800 03 REC-TYPE-3529-VI-I1 PIC X(02).  
002900 03 FMT-NO-3576-VI-I1 PIC X(01).  
003000 03 FMT-CD-3579-VI-I1 PIC X(01).  
003100 03 ADM-UNIT-0003-VI-I1 PIC X(08).  
003200 03 ALLOT-NUM-0968-VI-I1 PIC X(04).  
003300 03 PASTURE-NUM-3905-VI-I1 PIC X(02).  
003400 03 DATA-DT-6618-VI-I1 PIC X(06).  
003500 03 ACT-CD-7350-VI-I1 PIC X(01).  
003600 03 LINE-NO-3578-VI-I1 PIC X(04).  
003700 03 SWA-PCT-VI-I1 OCCURS 2 TIMES.  
003800 05 SWA-3507-VI-I1 PIC X(04).  
003900 05 PCT-SWA-I1 OCCURS 4 TIMES.  
004000 10 SFL-PCT-3925-VI-I1 PIC 9(03).  
004100 FD PRINT-FILE CODE-SET IS GBCD  
004200 LABEL RECORDS ARE STANDARD  
004300 DATA RECORDS IS PRT-REC.  
004400 01 PRT-REC PIC X(132).  
004500 SD SORT-FILE DATA RECORDS IS S-KEY1.  
004600 01 S-KEY1.  
004700 03 S-KEY1A.  
004800 05 REC-TYPE-3529-VI-S1 PIC X(02).  
004900 05 FMT-NO-3576-VI-S1 PIC X(01).  
005000 05 FMT-CD-3579-VI-S1 PIC X(01).  
005100 05 ADM-UNIT-0003-VI-S1.  
005200 10 ADM-ST-0003-VI-S1 PIC X(02).  
005300 10 ADM-DI-0003-VI-S1 PIC X(02).  
005400 10 ADM-RA-0003-VI-S1 PIC X(02).  
005500 10 ADM-PU-0003-VI-S1 PIC X(02).  
005600 05 ALLOT-NUM-0968-VI-S1 PIC X(04).  
005700 05 PASTURE-NUM-3905-VI-S1 PIC X(02).  
005800 05 LINE-NO-3578-VI-S1 PIC X(04).  
005900 05 SWA1-3507-VI-S1 PIC X(04).  
006000 03 DATA-DT-6618-VI-S1 PIC X(06).  
006100 03 ACT-CD-7350-VI-S1 PIC X(01).  
006200 03 SWA-PCT-VI-S1 OCCURS 2 TIMES.  
006300 05 SWA-VI-S1 PIC X(04).  
006400 05 PCT-SWA-VI-S1 OCCURS 4 TIMES.  
006500 07 SFL-PCT-3925-VI-S1 PIC 9(03).  
006600 WORKING-STORAGE SECTION.  
006700 77 PAGE-CNT PIC 9(05) VALUE 0.  
006800 77 LINE-CNT PIC 9(02) VALUE 66.  
006900 77 VI-CNT PIC 9(05) VALUE 0.  
007000 01 MONTH-TABLE.  
007100 03 MO-TAB.  
007200 05 FILLER PIC X(03) VALUE "JAN".  
007300 05 FILLER PIC X(03) VALUE "FEB".  
007400 05 FILLER PIC X(03) VALUE "MAR".  
007500 05 FILLER PIC X(03) VALUE "APR".  
007600 05 FILLER PIC X(03) VALUE "MAY".

007700		05	FILLER	PIC	X(03)	VALUE "JUN".
007800		05	FILLER	PIC	X(03)	VALUE "JUL".
007900		05	FILLER	PIC	X(03)	VALUE "AUG".
008000		05	FILLER	PIC	X(03)	VALUE "SEP".
008100		05	FILLER	PIC	X(03)	VALUE "OCT".
008200		05	FILLER	PIC	X(03)	VALUE "NOV".
008300		05	FILLER	PIC	X(03)	VALUE "DEC".
008400		03	MON REDEFINES MO-TAB	PIC	X(03)	OCCURS 12 TIMES.
008500	01		EOF-SWITCH	PIC	9	VALUE 0.
008600		88	EOF			VALUE 1.
008700	01		EOR-SWITCH	PIC	9	VALUE 0.
008800		88	EOR			VALUE 1.
008900	01		PARAMETER	PIC	X(04)	
009000	01		HLD-DT.			
009100		03	HOLD-DT.			
009200		05	YR-DT	PIC	XX.	
009300		05	MO-DT	PIC	99.	
009400		05	DY-DT	PIC	XX.	
009500		03	INV-HLD.			
009600		05	INV-NM	PIC	X(20)	
009700		05	ST-DIST-CD.			
009800		07	ST-CD-HLD	PIC	X(02)	
009900		07	DI-CD-HLD	PIC	X(02)	
010000		03	EXPL-HLD.			
010100		05	DIST-NM-HLD	PIC	X(12)	
010200		03	FUNC-HLD.			
010300		05	ST-NM-HLD	PIC	X(10)	
010400		05	FILLER	PIC	X(14)	
010500			COPY DBSTATUS IN TPCOBOLIB.			
010600	01		HDR-1.			
010700		03	FILLER	PIC	X(08)	VALUE
010800			" DATE: " .			
010900		03	HDR-MO	PIC	X(03)	
011000		03	FILLER	PIC	X(01)	VALUE SPACE.
011100		03	HDR-DA	PIC	X(02)	
011200		03	FILLER	PIC	X(04)	VALUE ", 19".
011300		03	HDR-YR	PIC	X(02)	
011400		03	FILLER	PIC	X(21)	VALUE SPACES.
011500		03	FILLER	PIC	X(47)	VALUE
011600			"US DEPT OF INTERIOR - BUREAU OF LAND MANAGEMENT".			
011700		03	FILLER	PIC	X(29)	VALUE SPACES.
011800		03	FILLER	PIC	X(07)	VALUE
011900			"PAGE: " .			
012000		03	HDR-PG	PIC	ZZ,ZZ9.	
012100		03	FILLER	PIC	X(02)	VALUE SPACES.
012200	01		HDR-2.			
012300		03	FILLER	PIC	X(8)	VALUE
012400			"STATE: " .			
012500		03	HDR-ST-CD	PIC	X(02)	
012600		03	FILLER	PIC	X(04)	VALUE SPACES.
012700		03	HDR-ST-NM	PIC	X(10)	
012800		03	FILLER	PIC	X(30)	VALUE SPACES.
012900		03	FILLER	PIC	X(25)	VALUE
013000			"ECOLOGICAL SITE INVENTORY".			
013100		03	FILLER	PIC	X(35)	VALUE SPACES.
013200		03	FILLER	PIC	X(18)	VALUE
013300			"PROGRAM: ES915P " .			

013400	01	HDR-3.						
013500	03	FILLER		PIC	X(08)	VALUE		
013600		" DI: "						
013700	03	HDR-DIST-CD		PIC	X(02).			
013800	03	FILLER		PIC	X(04)	VALUE SPACES.		
013900	03	HDR-DIST-NM		PIC	X(25).			
014000	03	FILLER		PIC	X(79)	VALUE SPACES.		
014100	03	FILLER		PIC	X(14)	VALUE		
014200		"PCN: PCN915 "						
014300	01	HDR-4.						
014400	03	FILLER		PIC	X(08)	VALUE		
014500		" INV: "						
014600	03	HDR-INV-CD		PIC	X(04).			
014700	03	FILLER		PIC	X(02)	VALUE SPACES.		
014800	03	HDR-INV-NM		PIC	X(25).			
014900	03	FILLER		PIC	X(16)	VALUE SPACES.		
015000	03	HDR-REC-TYPE		PIC	X(02).			
015100	03	FILLER		PIC	X(18)	VALUE		
015200		" VERIFICATION LIST".						
015300	03	FILLER		PIC	X(57)	VALUE SPACES.		
015400	01	HDR-5-VI.						
015500	03	FILLER		PIC	X(52)	VALUE		
015600		"(1-2)	(3)		(4)	(5)	(6) (7)".	
015700	03	FILLER		PIC	X(09)	VALUE SPACES.		
015800	03	FILLER		PIC	X(03)	VALUE "(8)".		
015900	03	FILLER		PIC	X(15)	VALUE SPACES.		
016000	03	FILLER		PIC	X(03)	VALUE "(9)".		
016100	03	FILLER		PIC	X(14)	VALUE SPACES.		
016200	03	FILLER		PIC	X(03)	VALUE "(8)".		
016300	03	FILLER		PIC	X(15)	VALUE SPACES.		
016400	03	FILLER		PIC	X(03)	VALUE "(9)".		
016500	03	FILLER		PIC	X(15)	VALUE SPACES.		
016600	01	HDR-6-VI.						
016700	03	FILLER		PIC	X(25)	VALUE		
016800		" REC ADMINISTRATIVE UNIT".						
016900	03	FILLER		PIC	X(18)	VALUE SPACES.		
017000	03	FILLER		PIC	X(15)	VALUE		
017100		"DATE ACT LINE".						
017200	03	FILLER		PIC	X(12)	VALUE SPACES.		
017300	03	FILLER		PIC	X(21)	VALUE		
017400		"PCT OF SWA BY SUIT CL".						
017500	03	FILLER		PIC	X(14)	VALUE SPACES.		
017600	03	FILLER		PIC	X(27)	VALUE		
017700		"PCT OF SWA BY SUIT CL "						
017800	01	HDR-7-VI.						
017900	03	FILLER		PIC	X(52)	VALUE		
018000		"TYPE ST DI RA PU ALLOT PAST YMMDD CD".						
018100	03	FILLER		PIC	X(47)	VALUE		
018200		" NUM SWA S PS LS U SWA".						
018300	03	FILLER		PIC	X(33)	VALUE		
018400		" S PS LS U "						
018500	01	HDR-8-VI.						
018600	03	FILLER		PIC	X(39)	VALUE		
018700		" 1-4 5-6 7-8 9-10 11-12 13-16 17-18".						
018800	03	FILLER		PIC	X(49)	VALUE		
018900		" 19-24 25 26-29 30-33 34-36 37-39 40-42 "						
019000	03	FILLER		PIC	X(44)	VALUE		

```

019100      "43-45  46-49  50-52  53-55  56-58  59-61  ".
019200 01  HDR-9-VI.
019300      03  FILLER          PIC          X(41)  VALUE
019400      "XXXX  XX   XX   XX   XX   XXXX   XX   ".
019500      03  FILLER          PIC          X(48)  VALUE
019600      "XXXXXX  X   9999  XXXX  999   999   999   ".
019700      03  FILLER          PIC          X(43)  VALUE
019800      "999   XXXX   999   999   999   999   ".
019900 01  HDR-10-DET-VI.
020000      03  REC-TYPE-3529-VI-P1  PIC          X(02).
020100      03  FMT-NO-3576-VI-P1    PIC          X(01).
020200      03  FMT-CD-3579-VI-P1    PIC          X(01).
020300      03  FILLER          PIC          X(02)  VALUE SPACES.
020400      03  ADM-ST-0003-VI-P1    PIC          X(02).
020500      03  FILLER          PIC          X(03)  VALUE SPACES.
020600      03  ADM-DI-0003-VI-P1    PIC          X(02).
020700      03  FILLER          PIC          X(03)  VALUE SPACES.
020800      03  ADM-RA-0003-VI-P1    PIC          X(02).
020900      03  FILLER          PIC          X(03)  VALUE SPACES.
021000      03  ADM-PU-0003-VI-P1    PIC          X(02).
021100      03  FILLER          PIC          X(05)  VALUE SPACES.
021200      03  ALLOT-NUM-0968-VI-P1  PIC          X(04).
021300      03  FILLER          PIC          X(04)  VALUE SPACES.
021400      03  PASTURE-NUM-3905-VI-P1  PIC          X(02).
021500      03  FILLER          PIC          X(03)  VALUE SPACES.
021600      03  DATA-DT-6618-VI-P1   PIC          X(06).
021700      03  FILLER          PIC          X(03)  VALUE SPACES.
021800      03  ACT-CD-7350-VI-P1    PIC          X(01).
021900      03  FILLER          PIC          X(03)  VALUE SPACES.
022000      03  LINE-NO-3578-VI-P1   PIC          X(04).
022100      03  FILLER          PIC          X(03)  VALUE SPACES.
022200      03  SWA1-3507-VI-P1      PIC          X(04).
022300      03  FILLER          PIC          X(03)  VALUE SPACES.
022400      03  SFL-PCT11-3925-VI-P1  PIC          X(03).
022500      03  FILLER          PIC          X(04)  VALUE SPACES.
022600      03  SFL-PCT12-3925-VI-P1  PIC          X(03).
022700      03  FILLER          PIC          X(04)  VALUE SPACES.
022800      03  SFL-PCT13-3925-VI-P1  PIC          X(03).
022900      03  FILLER          PIC          X(04)  VALUE SPACES.
023000      03  SFL-PCT14-3925-VI-P1  PIC          X(03).
023100      03  FILLER          PIC          X(04)  VALUE SPACES.
023200      03  SWA2-3507-VI-P1      PIC          X(04).
023300      03  FILLER          PIC          X(03)  VALUE SPACES.
023400      03  SFL-PCT21-3925-VI-P1  PIC          X(03).
023500      03  FILLER          PIC          X(04)  VALUE SPACES.
023600      03  SFL-PCT22-3925-VI-P1  PIC          X(03).
023700      03  FILLER          PIC          X(04)  VALUE SPACES.
023800      03  SFL-PCT23-3925-VI-P1  PIC          X(03).
023900      03  FILLER          PIC          X(04)  VALUE SPACES.
024000      03  SFL-PCT24-3925-VI-P1  PIC          X(03).
024100      03  FILLER          PIC          X(05)  VALUE SPACES.
024200  PROCEDURE DIVISION.
024300  START-SORT SECTION.
024400  100-SORT.
024500          SORT SORT-FILE ON ASCENDING S-KEY1A
024600  INPUT PROCEDURE PRE-SORT
024700  OUTPUT PROCEDURE POST-SORT.

```



```

024800 200-END-SECTION.
024900     FINISH DIC-DE.
025000         DISPLAY "VI-CNT"  VI-CNT.
025100     CLOSE PRINT-FILE.
025200     STOP RUN.
025300 PRE-SORT SECTION.
025400 300-HSKPNG.
025500     OPEN INPUT INPUT-FILE1.
025600 400-MAIN.
025700     PERFORM 500-RD-FILE THRU 600-EXIT-RD UNTIL EOF.
025800     CLOSE INPUT-FILE1.
025900     GO TO 600-EXIT-RD.
026000 500-RD-FILE.
026100     READ INPUT-FILE1  AT END MOVE 1 TO EOF-SWITCH.
026200     IF (EOF-SWITCH = 1) GO TO 600-EXIT-RD.
026300     ADD 1 TO VI-CNT.
026400     MOVE REC-TYPE-3529-VI-I1  TO REC-TYPE-3529-VI-S1.
026500     MOVE FMT-NO-3576-VI-I1    TO FMT-NO-3576-VI-S1.
026600     MOVE FMT-CD-3579-VI-I1    TO FMT-CD-3579-VI-S1.
026700     MOVE ADM-UNIT-0003-VI-I1  TO ADM-UNIT-0003-VI-S1.
026800     MOVE ALLOT-NUM-0968-VI-I1 TO ALLOT-NUM-0968-VI-S1.
026900     MOVE PASTURE-NUM-3905-VI-I1 TO PASTURE-NUM-3905-VI-S1.
027000     MOVE ACT-CD-7350-VI-I1    TO ACT-CD-7350-VI-S1.
027100     MOVE DATA-DT-6618-VI-I1  TO DATA-DT-6618-VI-S1.
027200     MOVE SWA-3507-VI-I1 (1)    TO SWA1-3507-VI-S1.
027300     MOVE LINE-NO-3578-VI-I1  TO LINE-NO-3578-VI-S1.
027400     MOVE SWA-PCT-VI-I1 (1)    TO SWA-PCT-VI-S1 (1).
027500     MOVE SWA-PCT-VI-I1 (2)    TO SWA-PCT-VI-S1 (2).
027600     RELEASE S-KEY1.
027700 600-EXIT-RD.
027800     EXIT.
027900 POST-SORT SECTION.
028000 3050-RET-HSKPNG.
028100     OPEN OUTPUT PRINT-FILE.
028200     ACCEPT PARAMETER.
028300     ACCEPT HOLD-DT FROM DATE.
028400     MOVE YR-DT TO HDR-YR.
028500     MOVE MON(MO-DT) TO HDR-MO.
028600     MOVE DY-DT TO HDR-DA.
028700     READY DIC-DE.
028800     PERFORM 4000-VALIDATE-INV THRU 4050-EXIT-STDI.
028900     RETURN SORT-FILE AT END MOVE 1 TO EOR-SWITCH.
029000 3070-MAIN-DRIVER.
029100     PERFORM 4300-PRT-DET THRU 4350-RETURN-SORT UNTIL EOR.
029200     GO TO 5000-DUMMY.
029300 4000-VALIDATE-INV.
029400     MOVE PARAMETER TO DE-CD-8822-DEC  HDR-INV-CD.
029500     MOVE 3940 TO DE-NO-8801-DEC.
029600     FIND ANY CODE-DEC.
029700     MOVE DB-STATUS TO DB-STAT.
029800     IF NOT OK
029900         MOVE "UNKNOWN" TO HDR-ST-NM HDR-DIST-NM HDR-INV-NM
030000         GO TO 4050-EXIT-STDI.
030100     GET CODE-DEC.
030200     MOVE DB-STATUS TO DB-STAT.
030300     IF NOT OK
030400         DISPLAY "ES915PBD  DIDN'T GET INVN"

```

```

030500         DISPLAY DB-STAT
030600         GO TO 4050-EXIT-STD1.
030700         MOVE DE-CD-NAM-8823-DEC TO INV-HLD.
030800         MOVE INV-NM TO HDR-INV-NM.
030900 4005-VALIDATE-ST.
031000         MOVE ST-CD-HLD TO DE-CD-8822-DEC  HDR-ST-CD.
031100         MOVE 0003 TO DE-NO-8801-DEC.
031200         FIND ANY CODE-DEC.
031300         MOVE DB-STATUS TO DB-STAT.
031400         IF NOT OK
031500             MOVE "UNKNOWN" TO HDR-ST-NM
031600             GO TO 4008-EXIT-ST.
031700         GET CODE-DEC.
031800         MOVE DB-STATUS TO DB-STAT.
031900         IF NOT OK
032000             DISPLAY "ES915PBD 3  DIDN'T GET ST"
032100             DISPLAY "ES915PBD 4  " DB-STAT
032200             GO TO 4008-EXIT-ST.
032300         MOVE DE-CD-NAM-8823-DEC TO FUNC-HLD.
032400         MOVE ST-NM-HLD TO HDR-ST-NM.
032500 4008-EXIT-ST.
032600         EXIT.
032700 4010-VALIDATE-STD1.
032800         MOVE ST-DIST-CD TO DE-CD-8822-DEC.
032900         MOVE DI-CD-HLD TO HDR-DIST-CD.
033000         MOVE 0003 TO DE-NO-8801-DEC.
033100         FIND ANY CODE-DEC.
033200         MOVE DB-STATUS TO DB-STAT.
033300         IF NOT OK
033400             MOVE "UNKNOWN" TO HDR-DIST-NM
033500             GO TO 4050-EXIT-STD1.
033600         GET CODE-DEC.
033700         MOVE DB-STATUS TO DB-STAT.
033800         IF NOT OK
033900             DISPLAY "ES915PBD 5 DIDN'T GET STD1"
034000             DISPLAY "ES915PBD 6  " DB-STAT
034100             GO TO 4050-EXIT-STD1.
034200         FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
034300         MOVE DB-STATUS TO DB-STAT.
034400         IF NOT OK
034500             MOVE "UNKNOWN" TO HDR-DIST-NM
034600             GO TO 4050-EXIT-STD1.
034700         GET CODE-EXPL-DECE.
034800         MOVE DB-STATUS TO DB-STAT.
034900         IF NOT OK
035000             DISPLAY "ES915PBD 7 DIDN'T GET DIST"
035100             DISPLAY "ES915PBD 8  " DB-STAT
035200             GO TO 4050-EXIT-STD1.
035300         MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HLD
035400         MOVE DIST-NM-HLD TO HDR-DIST-NM.
035500 4050-EXIT-STD1.
035600         EXIT.
035700 4200-PRT-HDNG.
035800         MOVE "VI" TO HDR-REC-TYPE.
035900         ADD 1 TO PAGE-CNT.
036000         MOVE PAGE-CNT TO HDR-PG.
036100         WRITE PRT-REC FROM HDR-1 AFTER ADVANCING PAGE.

```

```

036200 WRITE PRT-REC FROM HDR-2 AFTER ADVANCING 1 LINES.
036300 WRITE PRT-REC FROM HDR-3 AFTER ADVANCING 1 LINES.
036400 WRITE PRT-REC FROM HDR-4 AFTER ADVANCING 1 LINES.
036500 WRITE PRT-REC FROM HDR-5-VI AFTER ADVANCING 2 LINES.
036600 WRITE PRT-REC FROM HDR-6-VI AFTER ADVANCING 1 LINES.
036700 WRITE PRT-REC FROM HDR-7-VI AFTER ADVANCING 1 LINES.
036800 WRITE PRT-REC FROM HDR-8-VI AFTER ADVANCING 1 LINES.
036900 WRITE PRT-REC FROM HDR-9-VI AFTER ADVANCING 1 LINES.
037000 MOVE SPACES TO PRT-REC.
037100 WRITE PRT-REC AFTER ADVANCING 1 LINES.
037200 MOVE 10 TO LINE-CNT.
037300 4300-PRT-DET.
037400 IF LINE-CNT > 50
037500     PERFORM 4200-PRT-HDNG.
037600 MOVE REC-TYPE-3529-VI-S1 TO REC-TYPE-3529-VI-P1.
037700 MOVE FMT-NO-3576-VI-S1 TO FMT-NO-3576-VI-P1.
037800 MOVE FMT-CD-3579-VI-S1 TO FMT-CD-3579-VI-P1.
037900 MOVE ADM-ST-0003-VI-S1 TO ADM-ST-0003-VI-P1.
038000 MOVE ADM-DI-0003-VI-S1 TO ADM-DI-0003-VI-P1.
038100 MOVE ADM-RA-0003-VI-S1 TO ADM-RA-0003-VI-P1.
038200 MOVE ADM-PU-0003-VI-S1 TO ADM-PU-0003-VI-P1.
038300 MOVE ALLOT-NUM-0968-VI-S1 TO ALLOT-NUM-0968-VI-P1.
038400 MOVE PASTURE-NUM-3905-VI-S1 TO PASTURE-NUM-3905-VI-P1.
038500 MOVE DATA-DT-6618-VI-S1 TO DATA-DT-6618-VI-P1.
038600 MOVE ACT-CD-7350-VI-S1 TO ACT-CD-7350-VI-P1.
038700 MOVE LINE-NO-3578-VI-S1 TO LINE-NO-3578-VI-P1.
038800 MOVE SWA-VI-S1 (1) TO SWA1-3507-VI-P1.
038900 MOVE PCT-SWA-VI-S1 (1, 1) TO SFL-PCT11-3925-VI-P1.
039000 MOVE PCT-SWA-VI-S1 (1, 2) TO SFL-PCT12-3925-VI-P1.
039100 MOVE PCT-SWA-VI-S1 (1, 3) TO SFL-PCT13-3925-VI-P1.
039200 MOVE PCT-SWA-VI-S1 (1, 4) TO SFL-PCT14-3925-VI-P1.
039300 MOVE SWA-VI-S1 (2) TO SWA2-3507-VI-P1.
039400 MOVE PCT-SWA-VI-S1 (2, 1) TO SFL-PCT21-3925-VI-P1.
039500 MOVE PCT-SWA-VI-S1 (2, 2) TO SFL-PCT22-3925-VI-P1.
039600 MOVE PCT-SWA-VI-S1 (2, 3) TO SFL-PCT23-3925-VI-P1.
039700 MOVE PCT-SWA-VI-S1 (2, 4) TO SFL-PCT24-3925-VI-P1.
039800 WRITE PRT-REC FROM HDR-10-DET-VI AFTER ADVANCING
039900     2 LINES.
040000 ADD 2 TO LINE-CNT.
040100 4350-RETURN-SORT.
040200 RETURN SORT-FILE AT END MOVE 1 TO EOR-SWITCH.
040300 IF EOR-SWITCH = 1 GO TO 4400-EXIT-RET.
040400 4400-EXIT-RET.
040500 EXIT.
040600 DUMMY-SECTION.
040700 5000-DUMMY.
040800 EXIT.
040900 END-OF-JOB.
000000*-----
000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. ES920E.
000300* EDIT/UPDATE OF SUIT. FOR LIVESTOCK GRAZING (VI).
000400*
000500 AUTHOR. FRANK WILEY.
000600 DATE-WRITTEN. 07 AUG 79.
000600 DATE-COMPILED.
000600 ENVIRONMENT DIVISION.

```

000700 CONFIGURATION SECTION.  
000800 SOURCE-COMPUTER. LEVEL-66-ASCII.  
000900 OBJECT-COMPUTER. LEVEL-66-ASCII, SEQUENCE IS EBCDIC.  
001000 INPUT-OUTPUT SECTION.  
001100 FILE-CONTROL.  
001200     SELECT VI1Z-OUT ASSIGN TO D1  
001300         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
001400     SELECT VI1K-IN ASSIGN TO I1  
001500         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
001600     SELECT PRINT-FILE ASSIGN TO P1  
001700         ORGANIZATION IS GFRC SEQUENTIAL WITH SSF.  
001800 DATA DIVISION.  
001900 SUB-SCHEMA SECTION.  
002000 DB CODVAL2 WITHIN BLMDIC.  
002100 FILE SECTION.  
002200 FD VI1K-IN  
002300     CODE-SET IS GBCD  
002400     LABEL RECORDS ARE STANDARD  
002500     DATA RECORD VI1K-RCD-D1.  
002600 01 VI1K-RCD-D1.  
002700     03 RCD-ID-D1.  
002800         04 REC-TYP-IN                     PIC XX.  
002900         04 FMT-NUM-IN                    PIC X.  
003000         04 FMT-CD-IN                     PIC X.  
003100     03 SDRPAP-D1.  
003200         05 SDRP-D1.  
003300             07 SDR-D1.  
003400             09 SD-D1.  
003500                 11 ST-D1                     PIC XX.  
003600                 11 DS-D1                    PIC XX.  
003700             09 RA-D1                     PIC XX.  
003800             07 PU-D1                     PIC XX.  
003900     05 AP-D1.  
004000         07 ALOT-D1             PIC XXXX.  
004100         07 PAST-D1             PIC XX.  
004200     03 DATA-DATE-IN                     PIC 9(6).  
004300     03 ACTN-CD-IN                     PIC X.  
004400     03 LINE-NUM-IN                     PIC 9(4).  
004500     03 FIRST-SET.  
004600         05 SWA-IN-1.  
004700             07 SWACD-1             PIC X.  
004800             07 SWA-THREE-1             PIC X(3).  
004900     05 SFL-PCT-IN-A.  
005000         07 SFL-PCT-IN-1             PIC X(3).  
005100         07 SFL-PCT-IN-1P             PIC X(3).  
005200         07 SFL-PCT-IN-1L             PIC X(3).  
005300         07 SFL-PCT-IN-1U             PIC X(3).  
005400     03 SECOND-SET.  
005500         05 SWA-IN-2.  
005600             07 SWACD-2             PIC X.  
005700             07 SWA-THREE-2             PIC X(3).  
005800     05 SFL-PCT-IN-B.  
005900         07 SFL-PCT-IN-2             PIC X(3).  
006000         07 SFL-PCT-IN-2P             PIC X(3).  
006100         07 SFL-PCT-IN-2L             PIC X(3).  
006200         07 SFL-PCT-IN-2U             PIC X(3).  
006300     03 FILLER                     PIC X(5).

006400 FD PRINT-FILE  
006500 CODE-SET IS GBCD  
006600 LABEL RECORDS ARE STANDARD  
006700 DATA RECORD IS PRINT-RCD.  
006800 01 PRINT-RCD PIC X(132).  
006900 FD VI1Z-OUT  
007000 CODE-SET IS GBCD  
007100 LABEL RECORD IS STANDARD  
007200 DATA RECORD VI1Z-RCD.  
007300 01 VI1Z-RCD PIC X(66).  
007400 WORKING-STORAGE SECTION.  
007500 77 PAGE-NO COMP-4 PIC 9(6) VALUE 0.  
007600 77 ERROR-SW PIC 9 VALUE ZERO.  
007700 77 LINE-CNT COMP-4 PIC 99 VALUE ZERO.  
007800 77 SUIT-CNT COMP-4 PIC 999 VALUE ZERO.  
007900 77 SUB COMP-4 PIC 9 VALUE 1.  
008000 77 DISP-SW PIC 9 VALUE ZERO.  
008100 01 DISP-REC.  
008200 03 PAR-DIS PIC 999.  
008300 03 FILLER PIC X VALUE SPACE.  
008400 03 HDR-SW1 PIC 9 VALUE ZERO.  
008500 03 FILLER PIC X VALUE SPACE.  
008600 03 HDR-SW2 PIC 9 VALUE ZERO.  
008700 03 FILLER PIC X VALUE SPACE.  
008800 03 HDR-SW3 PIC 9 VALUE ZERO.  
008900 03 FILLER PIC X VALUE SPACE.  
009000 03 PAGE-SW PIC 9 VALUE 1.  
009100 03 FILLER PIC X VALUE SPACE.  
009200 03 HEAD-ERR PIC 9 VALUE ZERO.  
009300 03 FILLER PIC X VALUE SPACE.  
009400 03 REC-DIS PIC X(80).  
009500 03 FILLER PIC X VALUE SPACE.  
009600 01 HOLD-AREA.  
009700 03 SDRPAP-H.  
009800 05 SDRP-H.  
009900 07 SDR-H.  
010000 09 SD-H.  
010100 11 ST-H PIC XX.  
010200 11 DS-H PIC XX.  
010300 09 RA-H PIC XX.  
010400 07 PU-H PIC XX.  
010500 05 AP-H.  
010600 07 ALOT-H PIC XXXX.  
010700 07 PAST-H PIC XX.  
010800 03 SDRP-DIC PIC X(8).  
010900 01 DATE-HOLD.  
011000 03 YEAR-H PIC 99.  
011100 03 MON-H PIC 99.  
011200 03 DAY-H PIC 99.  
011300 01 MONTH-TABLE PIC X(36) VALUE  
011400 "JANFEBMARAPRMAYJUNJULAUGSEPOCTNOVDEC".  
011500 01 MONTH-LINE REDEFINES MONTH-TABLE.  
011600 03 ALPHA-MONTH PIC X(3) OCCURS 12.  
011700 01 ASTER-TABLE.  
011800 03 ASTER-LIN PIC X(3) OCCURS 4.  
011900 01 SFL-TABLE.  
012000 03 SUIT-LIN PIC X(3) OCCURS 4.

```

012100 01 SFL-TABLE-1 REDEFINES SFL-TABLE.
012200      03 SUIT-LIN-2                      PIC 9(3) OCCURS 4.
012300 01 HOLD-AREA.
012400      03 FUNC-HOLD.
012500          04 STATE-NAME                  PIC X(10).
012600          04 FILLER                      PIC X(14).
012700      03 EXPL-HOLD.
012800          04 DIST-NAME                  PIC X(10).
012900          04 FILLER                      PIC X.
013000          04 RA-NAME                    PIC X(12).
013100          04 FILLER                      PIC X.
013200          04 PLU-NAME                   PIC X(15).
013300          04 FILLER                      PIC X.
013400      03 DIST-H                          PIC XX.
013500 COPY DBSTATUS OF TPCOBOLIB.
013600 01 HDR-1.
013700      03 FILLER                          PIC X(8) VALUE
013800          " PCN ".
013900      03 FILLER                          PIC X(10) VALUE "ES920E ".
014000      03 FILLER                          PIC X(6) VALUE "AS OF ".
014100      03 DATE-AS-OF.
014200          04 DD                          PIC 99.
014300          04 FILLER                      PIC X VALUE SPACE.
014400          04 MMM                          PIC XXX.
014500          04 FILLER                      PIC X VALUE SPACE.
014600          04 YY                          PIC 99.
014700      03 FILLER                          PIC X(09) VALUE SPACE.
014800      03 FILLER                          PIC X(48) VALUE
014900          "USDI- BUR OF LAND MGT ECOLOGICAL SITE INVENTORY".
015000      03 FILLER                          PIC X(29) VALUE SPACE.
015100      03 FILLER                          PIC X(7) VALUE "PAGE ".
015200      03 PAGE-CNT                          PIC ZZZZZZ.
015300 01 HDR-2.
015400      03 FILLER                          PIC X(17) VALUE SPACE.
015500      03 FILLER                          PIC X(8) VALUE "STATE ".
015600      03 ST-HDR                          PIC X(15).
015700      03 FILLER                          PIC X(16) VALUE SPACE.
015800      03 FILLER                          PIC X(7) VALUE "DIST ".
015900      03 DIST-HDR                        PIC X(15).
016000      03 FILLER                          PIC X(15) VALUE SPACE.
016100      03 FILLER                          PIC X(22) VALUE
016200          "VI EDIT ERRORLISTING".
016300      03 FILLER                          PIC X(17) VALUE SPACE.
016400 01 HDR-3.
016500      03 FILLER                          PIC X(42) VALUE
016600          " REC TYP ST DIST".
016700      03 FILLER                          PIC X(38) VALUE
016800          " RS PLNG UT ALLOT ".
016900      03 FILLER                          PIC X(33) VALUE
017000          " PASTURE DATE ACTN".
017100      03 FILLER                          PIC X(19) VALUE SPACE.
017200 01 HDR-4.
017300      03 FILLER                          PIC X(16) VALUE SPACE.
017400      03 FILLER                          PIC X(43) VALUE
017500          "1-4 5-6 7-8 9-10 ".
017600      03 FILLER                          PIC X(43) VALUE
017700          "11-12 13-16 17-18 19-24".

```

017800	03	FILLER		PIC X(10) VALUE "	25".
017900	03	FILLER		PIC X(20) VALUE SPACE.	
018000	01	HDR-5.			
018100	03	FILLER		PIC X(16) VALUE SPACE.	
018200	03	FILLER		PIC X(45) VALUE	
018300		"XXXX	XX	XX	XX
018400	03	FILLER		PIC X(51) VALUE	
018500		"XX	XXXX	XX	XXXXXX
018600	03	FILLER		PIC X(20) VALUE SPACE.	
018700	01	HDR-6.			
018800	03	FILLER		PIC X(40) VALUE	
018900		"	LIN NUM	SWA	SUITABLE
019000	03	FILLER		PIC X(45) VALUE	
019100		"LE	L/SUITABLE	UNSUITABLE	SWA
019200	03	FILLER		PIC X(39) VALUE	
019300		"	P/SUITABLE	L/SUITABLE	UNSUITABLE"
019400	03	FILLER		PIC X(8) VALUE SPACE.	
019500	01	HDR-7.			
019600	03	FILLER		PIC X(40) VALUE	
019700		"	26-29	30-33	34-36
019800	03	FILLER		PIC X(40) VALUE	
019900		"	40-42	43-45	46-49
020000	03	FILLER		PIC X(40) VALUE	
020100		"-52	53-55	56-58	59-"
020200	03	FILLER		PIC X(12) VALUE	"61
020300	01	HDR-8.			
020400	03	FILLER		PIC X(40) VALUE	
020500		"	XXXX	XXXX	XXX
020600	03	FILLER		PIC X(40) VALUE	
020700		"	XXX	XXX	XXXX
020800	03	FILLER		PIC X(41) VALUE	
020900		"XX	XXX	XXX	XXX"
021000	03	FILLER		PIC X(11) VALUE SPACE.	
021100	01	PRINT-1.			
021200	03	FILLER		PIC X(16) VALUE SPACE.	
021300	03	REC-TYP-P		PIC X(4).	
021400	03	FILLER		PIC X(9) VALUE SPACE.	
021500	03	BLM-ADM-ST		PIC XX.	
021600	03	FILLER		PIC X(9) VALUE SPACE.	
021700	03	BLM-ADM-DIST		PIC XX.	
021800	03	FILLER		PIC X(7) VALUE SPACE.	
021900	03	BLM-ADM-RA		PIC XX.	
022000	03	FILLER		PIC X(10) VALUE SPACE.	
022100	03	BLM-ADM-PLU		PIC XX.	
022200	03	FILLER		PIC X(10) VALUE SPACE.	
022300	03	ALLOT-NUM-P		PIC X(4).	
022400	03	FILLER		PIC X(10) VALUE SPACE.	
022500	03	PASTURE-NUM-P		PIC XX.	
022600	03	FILLER		PIC X(8) VALUE SPACE.	
022700	03	DATA-DATE-P		PIC X(6).	
022800	03	FILLER		PIC X(8) VALUE SPACE.	
022900	03	ACTN-CD-P		PIC X.	
023000	03	FILLER		PIC X(20) VALUE SPACE.	
023100	01	PRINT-2.			
023200	03	FILLER		PIC X(16) VALUE SPACE.	
023300	03	RCD-ERR		PIC X(4).	
023400	03	FILLER		PIC X(9) VALUE SPACE.	

023500	03	ST-ERR	PIC XX.
023600	03	FILLER	PIC X(9) VALUE SPACE.
023700	03	DT-ERR	PIC XX.
023800	03	FILLER	PIC X(7) VALUE SPACE.
023900	03	RA-ERR	PIC XX.
024000	03	FILLER	PIC X(10) VALUE SPACE.
024100	03	PLU-ERR	PIC XX.
024200	03	FILLER	PIC X(10) VALUE SPACE.
024300	03	ALLOT-ERR	PIC X(4).
024400	03	FILLER	PIC X(10) VALUE SPACE.
024500	03	PASTURE-ERR	PIC XX.
024600	03	FILLER	PIC X(22) VALUE SPACE.
024700	03	ACTN-ERR	PIC X.
024800	03	FILLER	PIC X(20) VALUE SPACE.
024900	01	PRINT-3.	
025000	03	FILLER	PIC X(7) VALUE SPACE.
025100	03	LIN-NUM-P	PIC X(4).
025200	03	FILLER	PIC X(4) VALUE SPACE.
025300	03	SWA-NUM-1P	PIC X(4).
025400	03	FILLER	PIC X(5) VALUE SPACE.
025500	03	SFL-PCT-1P	PIC X(3).
025600	03	FILLER	PIC X(8) VALUE SPACE.
025700	03	SFL-PCT-P-1P	PIC X(3).
025800	03	FILLER	PIC X(10) VALUE SPACE.
025900	03	SFL-PCT-L-1P	PIC X(3).
026000	03	FILLER	PIC X(11) VALUE SPACE.
026100	03	SFL-PCT-U-1P	PIC X(3).
026200	03	FILLER	PIC X(6) VALUE SPACE.
026300	03	SWA-NUM-2P	PIC X(4).
026400	03	FILLER	PIC X(4) VALUE SPACE.
026500	03	SFL-PCT-2P	PIC X(3).
026600	03	FILLER	PIC X(10) VALUE SPACE.
026700	03	SFL-PCT-P-2P	PIC X(3).
026800	03	FILLER	PIC X(10) VALUE SPACE.
026900	03	SFL-PCT-L-2P	PIC X(3).
027000	03	FILLER	PIC X(10) VALUE SPACE.
027100	03	SFL-PCT-U-2P	PIC X(3).
027200	03	FILLER	PIC X(11) VALUE SPACE.
027300	01	PRINT-4.	
027400	03	FILLER	PIC X(15) VALUE SPACE.
027500	03	SWA-ERR-1	PIC X(4).
027600	03	FILLER	PIC X(5) VALUE SPACE.
027700	03	SUIT-ERR-1	PIC X(3).
027800	03	FILLER	PIC X(8) VALUE SPACE.
027900	03	P-SUIT-ERR-1	PIC X(3).
028000	03	FILLER	PIC X(10) VALUE SPACE.
028100	03	L-SUIT-ERR-1	PIC X(3).
028200	03	FILLER	PIC X(11) VALUE SPACE.
028300	03	U-SUIT-ERR-1	PIC X(3).
028400	03	FILLER	PIC X(6) VALUE SPACE.
028500	03	SWA-ERR-2	PIC X(4).
028600	03	FILLER	PIC X(4) VALUE SPACE.
028700	03	SUIT-ERR-2	PIC X(3).
028800	03	FILLER	PIC X(10) VALUE SPACE.
028900	03	P-SUIT-ERR-2	PIC X(3).
029000	03	FILLER	PIC X(10) VALUE SPACE.
029100	03	L-SUIT-ERR-2	PIC X(3).



```

029200      03  FILLER                      PIC X(10) VALUE SPACE.
029300      03  U-SUIT-ERR-2                PIC X(3).
029400      03  FILLER                      PIC X(11) VALUE SPACE.
029500 01  INFO-LIN-1.
029600      03  FILLER                      PIC X(24) VALUE SPACE.
029700      03  FILLER                      PIC X(38) VALUE
029800      "IF ERROR CORRECTION IS IN COMMON DATA ".
029900      03  FILLER                      PIC X(46) VALUE
030000      "(1-18), KEY ALL RECORDS WITH SAME COMMON DATA.".
030100      03  FILLER                      PIC X(24) VALUE SPACE.
030200 01  INFO-LIN-2.
030300      03  FILLER                      PIC X(24) VALUE SPACE.
030400      03  FILLER                      PIC X(42) VALUE
030500      "IF ERROR CORRECTION IS IN FIELD POSITIONS ".
030600      03  FILLER                      PIC X(45) VALUE
030700      "(30-61), KEY (1-29) AND RED CORRECTED FIELDS.".
030800      03  FILLER                      PIC X(21) VALUE SPACE.
030900  PROCEDURE DIVISION.
031000 005-START SECTION.
031100 010-OPEN-FILES.
031200      READY DIC-DE.
031300      OPEN INPUT VI1K-IN.
031400      OPEN OUTPUT PRINT-FILE, VI1Z-OUT.
031500      MOVE SPACE TO PRINT-RCD.
031600      WRITE PRINT-RCD BEFORE ADVANCING PAGE.
031700      ACCEPT DATE-HOLD FROM DATE.
031800      MOVE YEAR-H TO YY.
031900      MOVE DAY-H TO DD.
032000      MOVE ALPHA-MONTH (MON-H) TO MMM.
032100      MOVE PAGE-NO TO PAGE-CNT.
032200      MOVE SPACE TO PRINT-2, PRINT-4.
032300 015-READ.
032400      READ VI1K-IN AT END
032500      GO TO 9090-END.
032600      MOVE VI1K-RCD-D1 TO REC-DIS.
032700 020-HOLD.
032800      MOVE SDRP-D1 TO SDRP-H.
032900      MOVE ALOT-D1 TO ALOT-H.
033000      MOVE PAST-D1 TO PAST-H.
033100 025-EDIT-RCD-TYP.
033200      IF RCD-ID-D1 = "VI1D"
033300      GO TO 035-BLM-ST.
033400      IF REC-TYP-IN = TO "VI"
033500      GO TO 030-ERROR-VI.
033600      DISPLAY "RECORD NOT PROCESSED".
033700      DISPLAY VI1K-RCD-D1.
033800      GO TO 015-READ.
033900      MOVE VI1K-RCD-D1 TO REC-DIS.
034000 030-ERROR-VI.
034100      MOVE 1 TO HDR-SW1.
034200      MOVE ALL "*" TO RCD-ERR.
034300 035-BLM-ST.
034400      IF SDRP-D1 = SDRP-DIC
034500      GO TO 062-EDIT.
034600      MOVE SDRP-D1 TO SDRP-DIC.
034700      MOVE ST-D1 TO DE-CD-8822-DEC.
034800      MOVE 0003 TO DE-NO-8801-DEC.

```

```

034900     FIND ANY CODE-DEC.
035000     MOVE DB-STATUS TO DATA-BASE-STATUS.
035100     IF OK
035200         GET CODE-DEC
035300             MOVE DE-CD-NAM-8823-DEC TO FUNC-HOLD
035400             MOVE STATE-NAME TO ST-HDR
035500             GO TO 040-BLM-DIST.
035600     MOVE 1 TO HDR-SW1 HEAD-ERR.
035700     MOVE "UNKNOWN" TO ST-HDR, DIST-HDR.
035800     MOVE ALL "*" TO ST-ERR, DT-ERR, RA-ERR, PLU-ERR.
035900     GO TO 060-EXIT-BLM.
036000 040-BLM-DIST.
036100     MOVE SD-D1 TO DE-CD-8822-DEC.
036200     MOVE 0003 TO DE-NO-8801-DEC.
036300     FIND ANY CODE-DEC.
036400     MOVE DB-STATUS TO DATA-BASE-STATUS.
036500     IF OK
036600         GET CODE-DEC
036700             GO TO 045-FIND-DT.
036800     MOVE "UNKNOWN" TO DIST-HDR.
036900     MOVE 1 TO HDR-SW1 HEAD-ERR.
037000     MOVE ALL "*" TO DT-ERR, RA-ERR, PLU-ERR.
037100     GO TO 060-EXIT-BLM.
037200 045-FIND-DT.
037300     FIND NEXT CODE-EXPL-DECE WITHIN DEC-DECE.
037400     MOVE DB-STATUS TO DATA-BASE-STATUS.
037500     IF OK
037600         GET CODE-EXPL-DECE
037700             MOVE DE-CD-EXPLN-8827-DECE TO EXPL-HOLD
037800             MOVE DIST-NAME TO DIST-HDR
037900             GO TO 050-BLM-RA.
038000     MOVE "UNKNOWN" TO DIST-HDR.
038100 050-BLM-RA.
038200     MOVE SDR-D1 TO DE-CD-8822-DEC.
038300     MOVE 0003 TO DE-NO-8801-DEC.
038400     FIND ANY CODE-DEC.
038500     MOVE DB-STATUS TO DATA-BASE-STATUS.
038600     IF OK
038700         GO TO 055-BLM-PLU.
038800     MOVE 1 TO HDR-SW1 HEAD-ERR.
038900     MOVE ALL "*" TO RA-ERR, PLU-ERR.
039000     GO TO 060-EXIT-BLM.
039100 055-BLM-PLU.
039200     MOVE SDRP-D1 TO DE-CD-8822-DEC.
039300     MOVE 0003 TO DE-NO-8801-DEC.
039400     FIND ANY CODE-DEC.
039500     MOVE DB-STATUS TO DATA-BASE-STATUS.
039600     IF OK
039700         GO TO 060-EXIT-BLM.
039800     MOVE ALL "*" TO PLU-ERR.
039900     MOVE 1 TO HDR-SW1 HEAD-ERR.
040000 060-EXIT-BLM.
040100     EXIT.
040200 062-EDIT.
040300     IF ALOT-D1 NUMERIC NEXT SENTENCE
040400         ELSE MOVE 1 TO HDR-SW1
040500         MOVE ALL "*" TO ALLOT-ERR.

```

```

040600     IF (PAST-D1 = SPACES OR ZERO) OR
040700         (PAST-D1 > ZERO)
040800         NEXT SENTENCE ELSE
040900         MOVE 1 TO HDR-SW1 HEAD-ERR
041000         MOVE ALL "*" TO PASTURE-ERR.
041100 075-EDIT-SWA.
041200     IF HEAD-ERR = 1 MOVE 1 TO HDR-SW2.
041300     MOVE 075 TO PAR-DIS.
041400     IF DISP-SW = 1 DISPLAY DISP-REC.
041500     IF (SWACD-1 = SPACE) OR
041600         (SWACD-1 NOT ALPHABETIC) OR
041700         (SWA-THREE-1 NOT NUMERIC)
041800         MOVE 1 TO HDR-SW2
041900         MOVE ALL "*" TO SWA-ERR-1.
042000     MOVE SFL-PCT-IN-A TO SFL-TABLE.
042100     MOVE 1 TO SUB.
042200     MOVE ZERO TO SUIT-CNT.
042300     PERFORM 300-EDIT-SFL THRU 325-EXIT-SFL UNTIL SUB GREATER 4.
042400     IF SUIT-CNT NOT = 100
042500         MOVE 1 TO HDR-SW2
042600         MOVE ALL "*" TO SUIT-ERR-1, P-SUIT-ERR-1, L-SUIT-ERR-1,
042700             U-SUIT-ERR-1
042800         MOVE SPACE TO ASTER-TABLE
042900         MOVE ZERO TO SUIT-CNT, HDR-SW3
043000         MOVE 1 TO SUB
043100         GO TO 090-LAST-SWA.
043200     IF HDR-SW3 = ZERO
043300         GO TO 090-LAST-SWA.
043400     MOVE ZERO TO HDR-SW3.
043500     MOVE 1 TO HDR-SW2.
043600     IF ASTER-LIN (1) = SPACE NEXT SENTENCE ELSE
043700         MOVE ASTER-LIN (1) TO SUIT-ERR-1.
043800     IF ASTER-LIN (2) = SPACE NEXT SENTENCE ELSE
043900         MOVE ASTER-LIN (2) TO P-SUIT-ERR-1.
044000     IF ASTER-LIN (3) = SPACE NEXT SENTENCE ELSE
044100         MOVE ASTER-LIN (3) TO L-SUIT-ERR-1.
044200     IF ASTER-LIN (4) = SPACE NEXT SENTENCE ELSE
044300         MOVE ASTER-LIN (4) TO U-SUIT-ERR-1.
044400     MOVE SPACE TO ASTER-TABLE.
044500     MOVE ZERO TO SUIT-CNT, HDR-SW3.
044600     MOVE 1 TO SUB.
044700 090-LAST-SWA.
044800     MOVE 090 TO PAR-DIS.
044900     IF DISP-SW = 1 DISPLAY DISP-REC.
045000     IF SECOND-SET = SPACE
045100         GO TO 105-EDIT-EXIT.
045200     IF SWACD-2 = SPACE
045300         GO TO 095-SWA-ERR-2.
045400     IF SWACD-2 NOT ALPHABETIC
045500         GO TO 095-SWA-ERR-2.
045600     IF SWA-THREE-2 NUMERIC
045700         GO TO 100-NEXT-SET.
045800 095-SWA-ERR-2.
045900     MOVE 1 TO HDR-SW2.
046000     MOVE ALL "*" TO SWA-ERR-2.
046100 100-NEXT-SET.
046200     MOVE 100 TO PAR-DIS.

```

```

046300     IF DISP-SW = 1 DISPLAY DISP-REC.
046400     MOVE SFL-PCT-IN-B TO SFL-TABLE.
046500     MOVE 1 TO SUB.
046600     MOVE ZERO TO SUIT-CNT.
046700     PERFORM 300-EDIT-SFL THRU 325-EXIT-SFL UNTIL SUB GREATER 4.
046800     IF SUIT-CNT NOT = 100
046900         MOVE 1 TO HDR-SW2
047000         MOVE ALL "*" TO SUIT-ERR-2, P-SUIT-ERR-2, L-SUIT-ERR-2,
047100         U-SUIT-ERR-2
047200         MOVE SPACE TO ASTER-TABLE
047300         MOVE ZERO TO SUIT-CNT, HDR-SW3
047400         MOVE 1 TO SUB
047500         GO TO 105-EDIT-EXIT.
047600     IF HDR-SW3 = ZERO
047700         GO TO 105-EDIT-EXIT.
047800     MOVE ZERO TO HDR-SW3.
047900     MOVE 1 TO HDR-SW2.
048000     IF ASTER-LIN (1) = SPACE NEXT SENTENCE ELSE
048100         MOVE ASTER-LIN (1) TO SUIT-ERR-2.
048200     IF ASTER-LIN (2) = SPACE NEXT SENTENCE ELSE
048300         MOVE ASTER-LIN (2) TO P-SUIT-ERR-2.
048400     IF ASTER-LIN (3) = SPACE NEXT SENTENCE ELSE
048500         MOVE ASTER-LIN (3) TO L-SUIT-ERR-2.
048600     IF ASTER-LIN (4) = SPACE NEXT SENTENCE ELSE
048700         MOVE ASTER-LIN (4) TO U-SUIT-ERR-2.
048800     MOVE SPACE TO ASTER-TABLE.
048900     MOVE ZERO TO SUIT-CNT, HDR-SW3.
049000     MOVE 1 TO SUB.
049100 105-EDIT-EXIT.
049200     EXIT.
049300 110-SWITCH-CHECK.
049400     MOVE 110 TO PAR-DIS.
049500     IF DISP-SW = 1 DISPLAY DISP-REC.
049600     IF HDR-SW1 = ZERO
049700         GO TO 130-HDR-SW2.
049800     IF PAGE-SW = 1
049900         PERFORM 415-HDR-ST-DIST
050000         MOVE ZERO TO PAGE-SW.
050100     PERFORM 420-HDRS-CNTL.
050200 115-WRITE-CONTROL.
050300     MOVE 115 TO PAR-DIS.
050400     IF DISP-SW = 1 DISPLAY DISP-REC.
050500     PERFORM 425-MOVE-CTL-DATA.
050600     MOVE PRINT-2 TO PRINT-RCD.
050700     WRITE PRINT-RCD BEFORE 2.
050800     MOVE 1 TO ERROR-SW.
050900     ADD 2 TO LINE-CNT.
051000 120-WRITE-DATA.
051100     MOVE 120 TO PAR-DIS.
051200     IF DISP-SW = 1 DISPLAY DISP-REC.
051300     IF LINE-CNT < 15
051400         PERFORM 430-HDRS-DATA.
051500     PERFORM 435-MOVE-DATA.
051600     IF HDR-SW2 = ZERO
051700         MOVE SPACE TO PRINT-RCD
051800         ELSE
051900         MOVE PRINT-4 TO PRINT-RCD

```

```

052000         MOVE 1 TO ERROR-SW.
052100         WRITE PRINT-RCD BEFORE 2.
052200         ADD 2 TO LINE-CNT.
052300 125-DUMMY.
052400         GO TO 135-NEW-RCD.
052500 130-HDR-SW2.
052600         MOVE 130 TO PAR-DIS.
052700         IF DISP-SW = 1 DISPLAY DISP-REC.
052800         IF HDR-SW2 = ZERO
052900             GO TO 135-NEW-RCD.
053000         IF PAGE-SW = ZERO
053100             PERFORM 120-WRITE-DATA
053200             GO TO 135-NEW-RCD.
053300         PERFORM 415-HDR-ST-DIST THRU 425-MOVE-CTL-DATA.
053400         MOVE SPACE TO PRINT-RCD.
053500         WRITE PRINT-RCD BEFORE 2.
053600         ADD 2 TO LINE-CNT.
053700         IF LINE-CNT < 15
053800             PERFORM 430-HDRS-DATA.
053900         PERFORM 435-MOVE-DATA.
054000         MOVE PRINT-4 TO PRINT-RCD.
054100         WRITE PRINT-RCD BEFORE 2.
054200         ADD 2 TO LINE-CNT.
054300         MOVE 1 TO ERROR-SW.
054400         MOVE ZERO TO PAGE-SW.
054500 135-NEW-RCD.
054600         MOVE 135 TO PAR-DIS.
054700         IF DISP-SW = 1 DISPLAY DISP-REC.
054800         IF PAST-D1 = SPACE     MOVE ZERO TO PAST-D1.
054900         MOVE SFL-PCT-IN-A TO SFL-TABLE.
055000         IF SUIT-LIN (1) = SPACE     MOVE ZERO TO SUIT-LIN (1).
055100         IF SUIT-LIN (2) = SPACE     MOVE ZERO TO SUIT-LIN (2).
055200         IF SUIT-LIN (3) = SPACE     MOVE ZERO TO SUIT-LIN (3).
055300         IF SUIT-LIN (4) = SPACE     MOVE ZERO TO SUIT-LIN (4).
055400         MOVE SFL-TABLE TO SFL-PCT-IN-A.
055500         MOVE SFL-PCT-IN-B TO SFL-TABLE.
055600         IF SUIT-LIN (1) = SPACE     MOVE ZERO TO SUIT-LIN (1).
055700         IF SUIT-LIN (2) = SPACE     MOVE ZERO TO SUIT-LIN (2).
055800         IF SUIT-LIN (3) = SPACE     MOVE ZERO TO SUIT-LIN (3).
055900         IF SUIT-LIN (4) = SPACE     MOVE ZERO TO SUIT-LIN (4).
056000         MOVE SFL-TABLE TO SFL-PCT-IN-B.
056100         MOVE VI1K-RCD-D1 TO VI1Z-RCD.
056200         WRITE VI1Z-RCD.
056300*        GO TO 145-READ-NEXT.
056400 140-ZERO-OUT.
056500         MOVE 140 TO PAR-DIS.
056600         IF DISP-SW = 1 DISPLAY DISP-REC.
056700         MOVE ZERO TO HDR-SW1, HDR-SW2.
056800         MOVE SPACE TO PRINT-2, PRINT-4.
056900 145-READ-NEXT.
057000         READ VI1K-IN AT END
057100             GO TO 9090-END.
057200         MOVE VI1K-RCD-D1 TO REC-DIS.
057300         MOVE 145 TO PAR-DIS.
057400         IF DISP-SW = 1 DISPLAY DISP-REC.
057500         IF RCD-ID-D1 NOT = "VI1D"
057600             DISPLAY "RECORD NOT PROCESSED"

```

```
057700         DISPLAY VI1K-RCD-D1
057800         GO TO 145-READ-NEXT.
057900         IF SDRPAP-D1 = SDRPAP-H
058000         GO TO 062-EDIT.
058100         MOVE ZERO TO HEAD-ERR.
058200         IF SDRP-D1 = SDRP-H
058300         GO TO 175-ALLOT-CHECK.
058400         IF SDR-D1 = SDR-H
058500         GO TO 170-PLU-CHECK.
058600         IF SD-D1 = SD-H
058700         GO TO 165-RA-CHECK.
058800 150-ST-CHECK.
058900         IF ST-D1 = ST-H
059000         GO TO 160-DIST-CHECK.
059100         PERFORM 155-NEW-PAGE.
059200         GO TO 035-BLM-ST.
059300 155-NEW-PAGE.
059400         MOVE ZERO TO PAGE-NO.
059500         MOVE 1 TO PAGE-SW.
059600         PERFORM 140-ZERO-OUT.
059700         PERFORM 020-HOLD.
059800 160-DIST-CHECK.
059900         IF DS-D1 = DS-H
060000         GO TO 165-RA-CHECK.
060100         PERFORM 155-NEW-PAGE.
060200         GO TO 035-BLM-ST.
060300 165-RA-CHECK.
060400         IF RA-D1 = RA-H
060500         GO TO 170-PLU-CHECK.
060600         MOVE 1 TO PAGE-SW.
060700         PERFORM 140-ZERO-OUT.
060800         PERFORM 020-HOLD.
060900         GO TO 035-BLM-ST.
061000 170-PLU-CHECK.
061100         IF PU-D1 = PU-H
061200         GO TO 175-ALLOT-CHECK.
061300         MOVE 1 TO PAGE-SW.
061400         PERFORM 140-ZERO-OUT.
061500         PERFORM 020-HOLD.
061600         GO TO 035-BLM-ST.
061700 175-ALLOT-CHECK.
061800         IF ALOT-D1 = ALOT-H
061900         GO TO 180-PASTURE-CHECK.
062000         MOVE 1 TO PAGE-SW.
062100         PERFORM 140-ZERO-OUT.
062200         PERFORM 020-HOLD.
062300         GO TO 035-BLM-ST.
062400 180-PASTURE-CHECK.
062500         IF PAST-D1 = TO PAST-H
062600         GO TO 185-CONTROL-EQUAL.
062700         MOVE 1 TO PAGE-SW.
062800         PERFORM 140-ZERO-OUT.
062900         PERFORM 020-HOLD.
063000         GO TO 035-BLM-ST.
063100 185-CONTROL-EQUAL.
063200         MOVE 185 TO PAR-DIS.
063300         IF DISP-SW = 1 DISPLAY DISP-REC.
```

```

063400     MOVE SPACE TO PRINT-4.
063500     MOVE ZERO TO HDR-SW2.
063600     PERFORM 075-EDIT-SWA THRU 105-EDIT-EXIT.
063700     IF HDR-SW1 NOT = ZERO
063800         GO TO 186-PAGE.
063900     IF HDR-SW2 = ZERO
064000         GO TO 135-NEW-RCD.
064100 186-PAGE.
064200     MOVE 186 TO PAR-DIS.
064300     IF DISP-SW = 1 DISPLAY DISP-REC.
064400     IF PAGE-SW = ZERO
064500         GO TO 190-CONTINUE.
064600     MOVE ZERO TO PAGE-SW.
064700     PERFORM 415-HDR-ST-DIST THRU 425-MOVE-CTL-DATA.
064800     IF HDR-SW1 = ZERO
064900         MOVE SPACE TO PRINT-RCD
065000         ELSE
065100         MOVE PRINT-2 TO PRINT-RCD
065200         MOVE 1 TO ERROR-SW.
065300     WRITE PRINT-RCD BEFORE 2.
065400     ADD 2 TO LINE-CNT.
065500     IF LINE-CNT < 15
065600         PERFORM 430-HDRS-DATA.
065700 190-CONTINUE.
065800     MOVE 190 TO PAR-DIS.
065900     IF DISP-SW = 1 DISPLAY DISP-REC.
066000     PERFORM 435-MOVE-DATA.
066100     MOVE 1 TO ERROR-SW.
066200     IF HDR-SW2 = ZERO
066300         MOVE SPACE TO PRINT-RCD
066400         ELSE
066500         MOVE PRINT-4 TO PRINT-RCD
066600         MOVE 1 TO ERROR-SW.
066700     WRITE PRINT-RCD BEFORE 2.
066800     ADD 2 TO LINE-CNT.
066900     IF LINE-CNT > 54
067000         MOVE 1 TO PAGE-SW.
067100     GO TO 135-NEW-RCD.
067200 300-EDIT-SFL.
067300     IF SUII-LIN (SUB) = SPACE
067400         ADD 1 TO SUB
067500         GO TO 325-EXIT-SFL.
067600     IF SUII-LIN (SUB) NUMERIC
067700         ADD SUII-LIN-2 (SUB) TO SUII-CNT
067800         ADD 1 TO SUB
067900         GO TO 325-EXIT-SFL.
068000     MOVE 1 TO HDR-SW3.
068100     MOVE "****" TO ASTER-LIN (SUB).
068200     ADD 1 TO SUB.
068300 325-EXIT-SFL.
068400     EXIT.
068500 400-LINE-CNT.
068600     MOVE 400 TO PAR-DIS.
068700     IF DISP-SW = 1 DISPLAY DISP-REC.
068800     MOVE SPACE TO PRINT-RCD.
068900     WRITE PRINT-RCD BEFORE PAGE.
069000     MOVE ZERO TO LINE-CNT.

```

069100 MOVE 1 TO PAGE-SW.  
069200 ADD 1 TO PAGE-NO.  
069300 MOVE PAGE-NO TO PAGE-CNT.  
069400 415-HDR-ST-DIST.  
069500 MOVE 415 TO PAR-DIS.  
069600 IF DISP-SW = 1 DISPLAY DISP-REC.  
069700 PERFORM 400-LINE-CNT.  
069800 MOVE HDR-1 TO PRINT-RCD.  
069900 WRITE PRINT-RCD BEFORE 2.  
070000 MOVE HDR-2 TO PRINT-RCD.  
070100 WRITE PRINT-RCD BEFORE 2.  
070200 MOVE INFO-LIN-1 TO PRINT-RCD.  
070300 WRITE PRINT-RCD BEFORE 1.  
070400 MOVE INFO-LIN-2 TO PRINT-RCD.  
070500 WRITE PRINT-RCD BEFORE 2.  
070600 ADD 7 TO LINE-CNT.  
070700 420-HDRS-CNTL.  
070800 MOVE 420 TO PAR-DIS.  
070900 IF DISP-SW = 1 DISPLAY DISP-REC.  
071000 MOVE HDR-3 TO PRINT-RCD.  
071100 WRITE PRINT-RCD BEFORE 1.  
071200 MOVE HDR-4 TO PRINT-RCD.  
071300 WRITE PRINT-RCD BEFORE 1.  
071400 MOVE HDR-5 TO PRINT-RCD.  
071500 WRITE PRINT-RCD BEFORE 2.  
071600 ADD 4 TO LINE-CNT.  
071700 425-MOVE-CTL-DATA.  
071800 MOVE 425 TO PAR-DIS.  
071900 IF DISP-SW = 1 DISPLAY DISP-REC.  
072000 MOVE RCD-ID-D1 TO REC-TYP-P.  
072100 MOVE ST-D1 TO BLM-ADM-ST.  
072200 MOVE DS-D1 TO BLM-ADM-DIST.  
072300 MOVE RA-D1 TO BLM-ADM-RA.  
072400 MOVE PU-D1 TO BLM-ADM-PLU.  
072500 MOVE ALOT-D1 TO ALLOT-NUM-P.  
072600 MOVE PAST-D1 TO PASTURE-NUM-P.  
072700 MOVE DATA-DATE-IN TO DATA-DATE-P.  
072800 MOVE ACTN-CD-IN TO ACTN-CD-P.  
072900 MOVE PRINT-1 TO PRINT-RCD.  
073000 WRITE PRINT-RCD BEFORE 1.  
073100 ADD 1 TO LINE-CNT.  
073200 430-HDRS-DATA.  
073300 MOVE 430 TO PAR-DIS.  
073400 IF DISP-SW = 1 DISPLAY DISP-REC.  
073500 MOVE HDR-6 TO PRINT-RCD.  
073600 WRITE PRINT-RCD BEFORE 1.  
073700 MOVE HDR-7 TO PRINT-RCD.  
073800 WRITE PRINT-RCD BEFORE 1.  
073900 MOVE HDR-8 TO PRINT-RCD.  
074000 WRITE PRINT-RCD BEFORE 2.  
074100 ADD 4 TO LINE-CNT.  
074200 435-MOVE-DATA.  
074300 MOVE 435 TO PAR-DIS.  
074400 IF DISP-SW = 1 DISPLAY DISP-REC.  
074500 MOVE LINE-NUM-IN TO LIN-NUM-P.  
074600 MOVE SWA-IN-1 TO SWA-NUM-1P.  
074700 MOVE SFL-PCT-IN-1 TO SFL-PCT-1P.



```
074800     MOVE SFL-PCT-IN-1P TO SFL-PCT-P-1P.
074900     MOVE SFL-PCT-IN-1L TO SFL-PCT-L-1P.
075000     MOVE SFL-PCT-IN-1U TO SFL-PCT-U-1P.
075100     MOVE SWA-IN-2 TO SWA-NUM-2P.
075200     MOVE SFL-PCT-IN-2 TO SFL-PCT-2P.
075300     MOVE SFL-PCT-IN-2P TO SFL-PCT-P-2P.
075400     MOVE SFL-PCT-IN-2L TO SFL-PCT-L-2P.
075500     MOVE SFL-PCT-IN-2U TO SFL-PCT-U-2P.
075600     MOVE PRINT-3 TO PRINT-RCD.
075700     WRITE PRINT-RCD BEFORE 1.
075800     ADD 1 TO LINE-CNT.
075900 9090-END.
076000     IF ERROR-SW = 1
076100         PERFORM 400-LINE-CNT
076200         GO TO 9055-CLOSE.
076300     MOVE "NO ERRORS DETECTED THIS RUN" TO PRINT-RCD.
076400     WRITE PRINT-RCD BEFORE PAGE.
076500     DISPLAY "NO ERRORS".
076600 9055-CLOSE.
076700     CLOSE VI1K-IN, VI1Z-OUT, PRINT-FILE.
076800     FINISH.
076900     STOP RUN.
```