CHARACTERIZATION OF RIPARIAN MANAGEMENT ZONES AND UPLAND MANAGEMENT AREAS WITH RESPECT TO WILDLIFE HABITAT

DATA DOCUMENTATION

By

Washington Department of Wildlife
Habitat Management Division

Companion to TFW-WL1-91-001

Washington Department of Wildlife

RMZ/UMA Site Management Information System

For
Habitat Management Division

User Reference Manual

Version 08.90.02.00
Washington Department of Wildlife
Information Systems Section
Roosevelt McKenzie
Data Administrator
June 1991

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Contents

SMS System Requirements

Minimum System Hardware Requirements

IBM PC-AT or equivalent
- 1Mb RAM (640K + 384K Extended)
- 15Mb available hard disk space
- 5 1/4" 1.2Mb or 3 1/2" 1.44Mb diskette drive
- EGA Adapter and Monitor

Epson FX-100 Dot Matrix Printer or equivalent

Minimum System Software Requirements

PC or MS-DOS Version 3.1 or later

SMS Installation 1 Diskette
SMS/Paradox Program 1 Diskette

SMS Installation

The RMZ/UMA SMS media package consists of the following manuals and diskettes:

SMS User Reference Manual
SMS Technical Reference Manual
SMS Installation 1 Diskette
SMS/Paradox Program 1 Diskette

If any of these items are missing DO NOT attempt to install this application!!

Installing RMZ/UMA SMS (5 1/4" Diskettes)

1 - Place SMS Installation 1 Diskette in Drive A:** and engage the drive latch.

2 - Make A: the default drive by typing A: and pressing Enter.

3 - At the A:\> prompt, type install and press enter.

4 - Follow the directions displayed on the monitor to continue.

5 - When installation is complete, store the diskettes in a safe place.

Refer to Section 5 of the RMZ/UMA SMS Technical Reference Manual for additional information.

** If using the 3 1/2" diskette set, make Drive B: the default drive.

Using the RMZ/UMA Site Management Information System

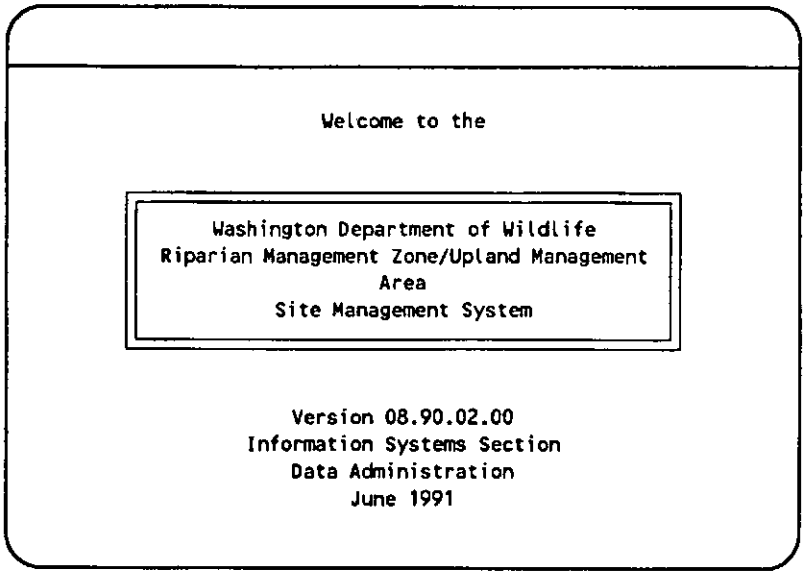
SMS is a simple and easy to use menu driven application. This section will cover each of the system menus, the menu selections, and the screens and functions that are associated with the menu selections.

To start SMS,

1. At the system prompt (C:\>), type

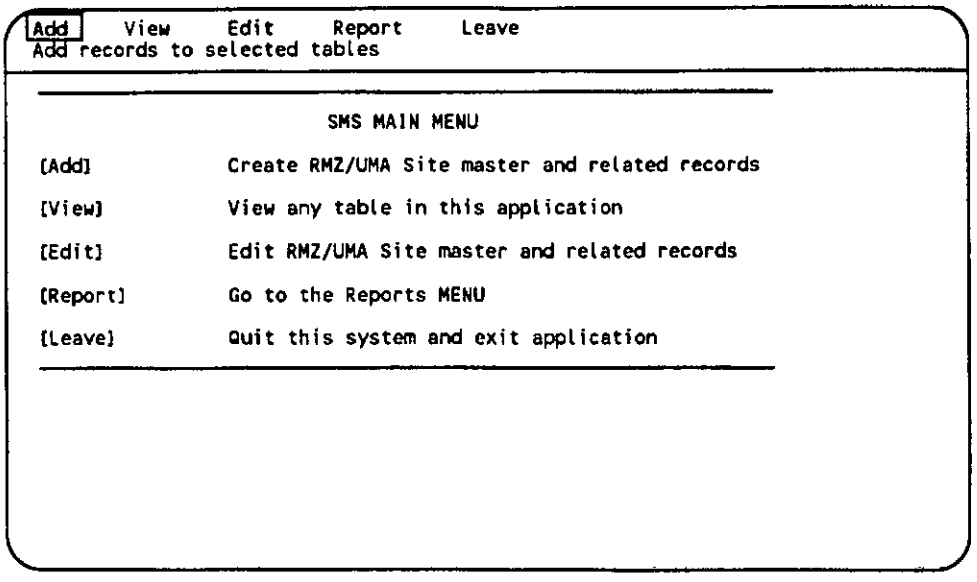
   SMS91 and press Enter.

2. After a short wait, the system opening screen will appear on the monitor.



3. This screen will clear after approximately 5 seconds.

SMS Main Menu

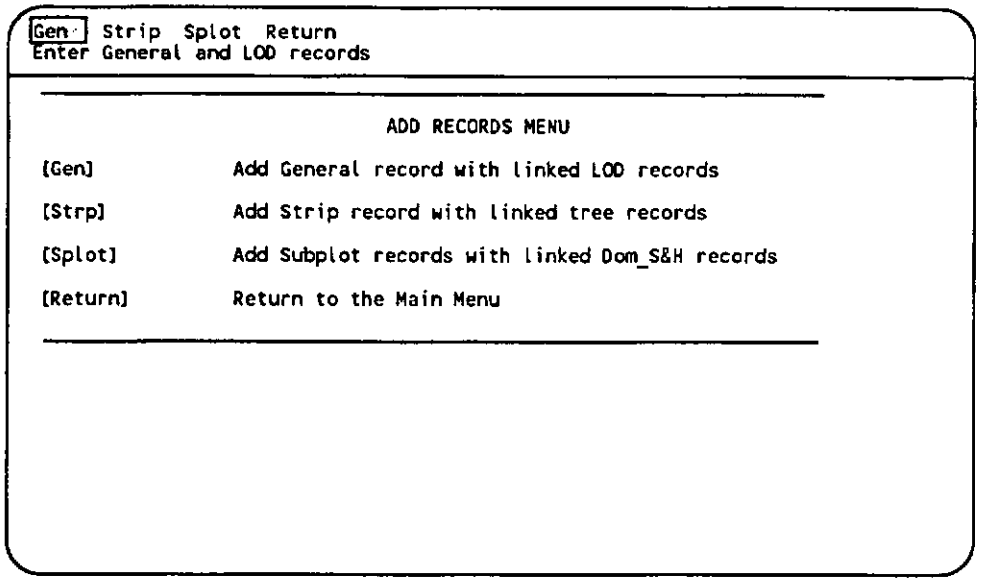


Making Menu Selections

Menu selections may be made by using the right and left cursor (arrow) keys to highlight the desired function and pressing Enter, or by depressing the first letter of the function keyword. For instance, depressing "e" will display the Edit Menu.

Menu Selection	Function
[Add]	Add new data to RMZ/UMA site files.
[View]	View selected RMZ/UMA site data.
[Edit]	Modify/Delete data in RMZ/UMA site files.
[Report]	Display the Report menu.
[Leave]	Exit the application.

SMS Add Menu



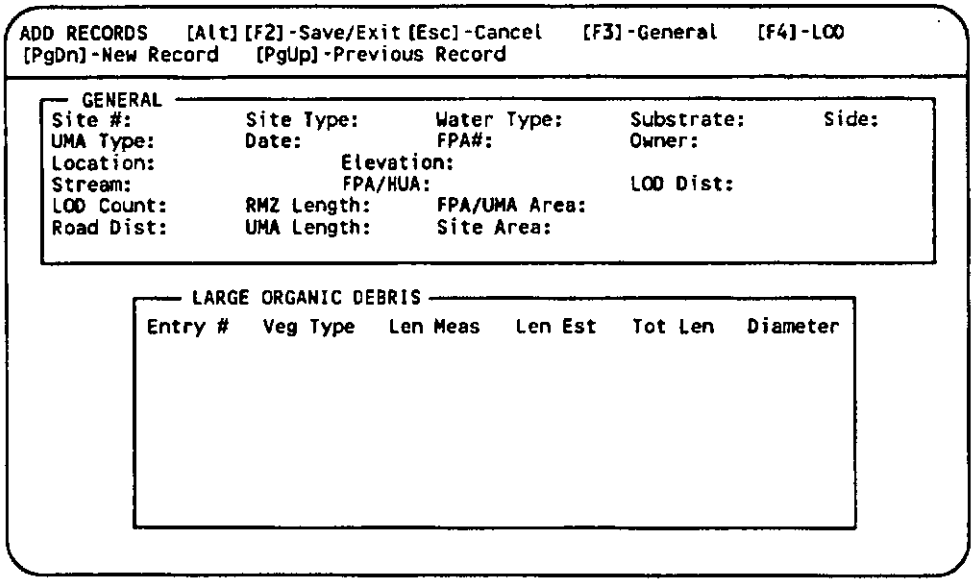
Selection	Function
[Gen]	Add new data to theGeneral and LOD tables.
[Strp]	Add new data to the Strip and Tree tables.
[Splot]	Add new data to the Subplot and Dominant Shrub/Herb tables.
[Return]	Return to the Main Menu.

***** WARNING** SMS uses keyed, linked, relational tables. Any attempt to enter and write duplicate records to the data tables will result in a key violation. Duplicate or non-unique records will be written to a key violation data table. In the event of a key violation, you will be asked to either print a report or continue. Select print report then exit the application. Notify your support person immediately.***

***** NOTE** To add any new data to the SMS data tables, valid data must first be entered into the RMZ/UMA General data table. If an attempt is made to enter data without a valid Site Number, an error will be generated, and the entry disallowed.***

***** NOTE** Most of the forms used for data entry will have highlighted fields. These fields are automatically generated. Although you may alter or delete the data in some of these fields, it is strongly recommended that you do not. First, it will cause the system to operate at a much slower rate than normal. Second, the application has been designed to make use of this information when storing data, querying data, and generating reports. And last, changing these fields will cause the generation of numerous key violation and invalid data tables which is not the best use of limited disk and memory resources.***

General/Large Organic Debris (LOD) Data



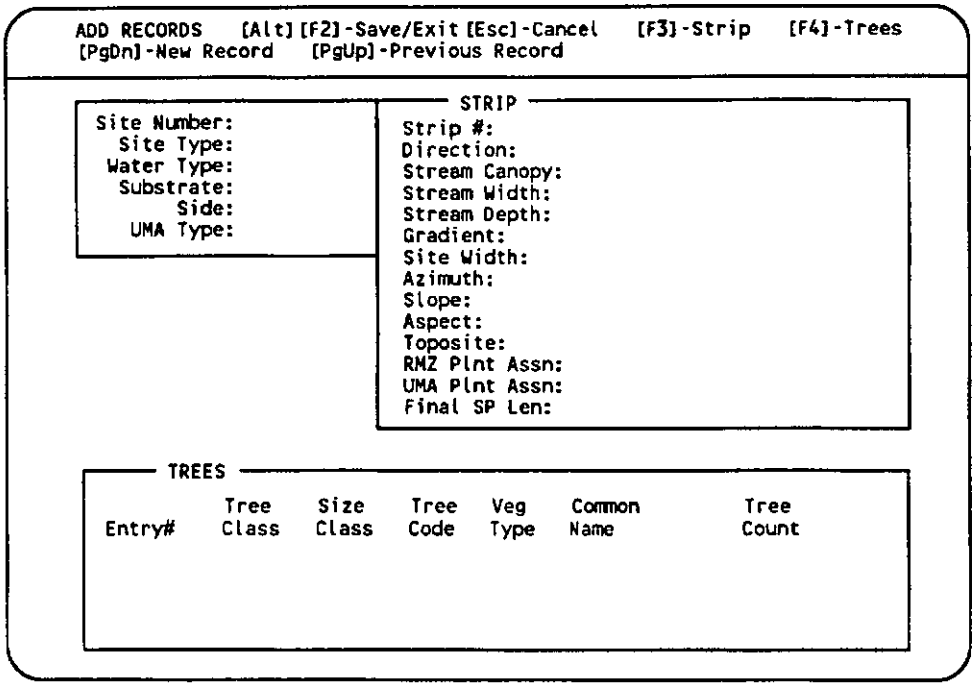
Use the table below to enter data into the RMZ/UMA General and Large Organic Debris (LOD) tables. The Screen Label column is what appears on the data entry screen, the Allowable Entry column is the range of values, text or other formatted entry that can be made on the data entry screen. The Block Number column is the location of the corresponding information on the Field Collection Data Form.

Screen Label	Allowable Entry	Block Number
General		
Site #	Number between 1 and 999	1
Site Type	L, R, or U	
Water Type	1, 2, or 3	9
Substrate	B or G	10
Side	E or W	
UMA Type	(If Site Type = U) B, UF, or FW	17
Date	mm/dd/yy	3
FPA #	7 digit code	2
Owner Code		
Location	Town/Range/Section	6
Elevation	Number between 1 and 99	7
Stream	Max = 15 characters	8
FPA/HUA	Number between 1 and 999	11
LOD Dist	Number between 1 and 9999	12
LOD Count	Total number of line entries from Card 1B.	
RMZ Length	Number between 1 and 99999	13
FPA/UMA Area	Not Used	
Road Dist	Number between 1 and 9999	19
UMA Length	Number between 1 and 999	18
Site Area	Number between 1 and 99	16

List continues on next page...

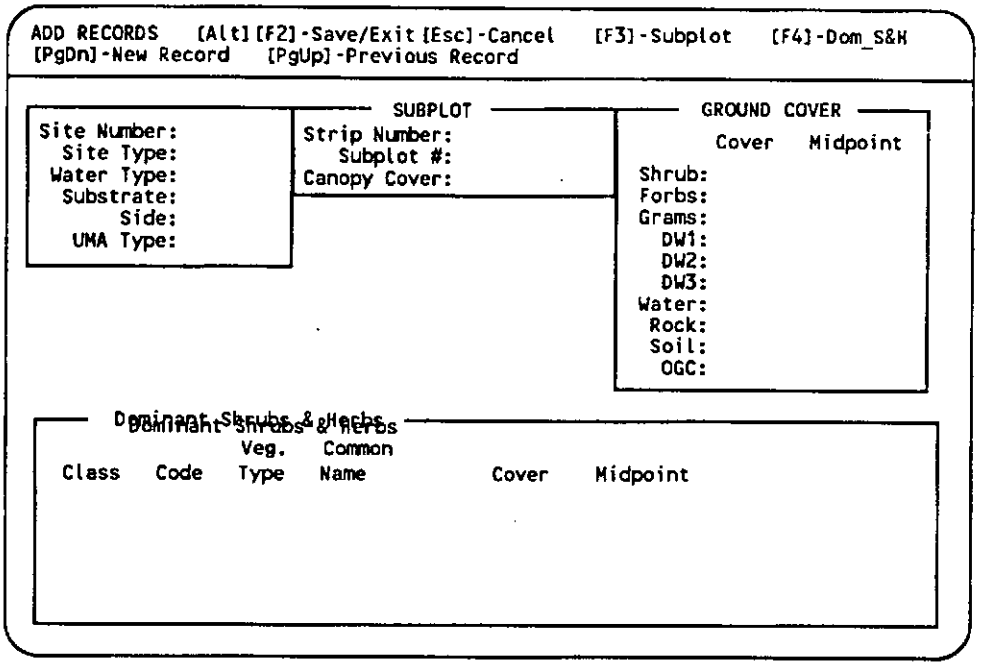
Screen Label	Allowable Entry	Block Number
Large Organic Debris		
Entry #	Sequential line or block count of the LOD entry on Card 1B. There are 66 entries per card.	
Veg Type	TC, TH, or TU	26
Len Meas	Number between 1 and 99	24X
Len Est	Number between 1 and 99	24Y
Tot Len	*Calculated*	
Diameter	Number between 1 and 99	25

Strip/Tree Data Entry FormStrip/Tree



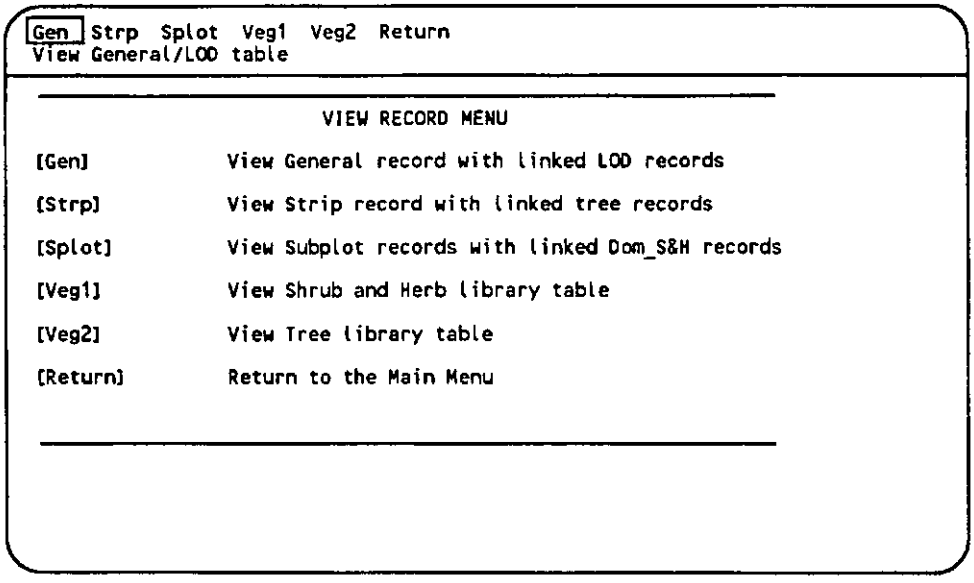
Screen Label	Allowable Entry	Block Number
Strip		
Site Number	Number between 1 and 999	1
Site Type		
Water Type		
Substrate		
Side		
UMA Type		
Strip #	Max = 3 characters	28
Direction	Number between 0 and 359	27
Stream Canopy	Number between 0 and 99	29
Stream Width	Number between 1 and 999	30
Stream Depth	Number between 0 and 9.9	31
Gradient	Number between 0 and 99	32
Site Width	Number between 0 and 999	33
Azimuth	Number between 0 and 359	34
Slope	Number between 0 and 100	35
Aspect	Number between 0 and 9	36
Toposite	Number between 1 and 8	37
RMZ Plnt Assn	Max = 8 characters	38
UMA Plnt Assn	Max = 8 characters	39
Final SP Len	Number between 0 and 9	40
Trees		
Entry #	Sequential line or block count of the Tree entry on Card 2A/B. There are 70 entries per card.	
Tree Class	Max = 1 character	41
Size Class	Number between 1 and 7	43
Tree Code	Number between 0 and 999	42
Veg Type		
Common Name		
Tree Count	Number between 1 and 9	44

Subplot/Dominant Herbs & Shrubs Data Entry Form



Screen Label	Allowable Entry	Block Number
Subplot		
Site Number	Number between 1 and 999	1
Site Type		
Water Type		
Substrate		
Side		
UMA Type		
Strip Number	Max = 3 characters	28
Subplot #	Number between 1 and 99	45
Canopy Cover	Number between 0 and 99	46
Shrub (Cover)	Number between 0 and 6	49
Forbs (Cover)	Number between 0 and 6	52
Grams (Cover)	Number between 0 and 6	53
DW1 (Cover)	Number between 0 and 6	54
DW2 (Cover)	Number between 0 and 6	55
DW3 (Cover)	Number between 0 and 6	56
Water (Cover)	Number between 0 and 6	57
Rock (Cover)	Number between 0 and 6	58
Soil (Cover)	Number between 0 and 6	59
OGC (Cover)	Number between 0 and 6	60
DOM_S&H		
Class	DH1, DH2, DS1, or DS2	
Code	Max = 4 characters	47
Veg. Type		
Common Name		
Cover	Number between 1 and 6	48

SMS View Menu



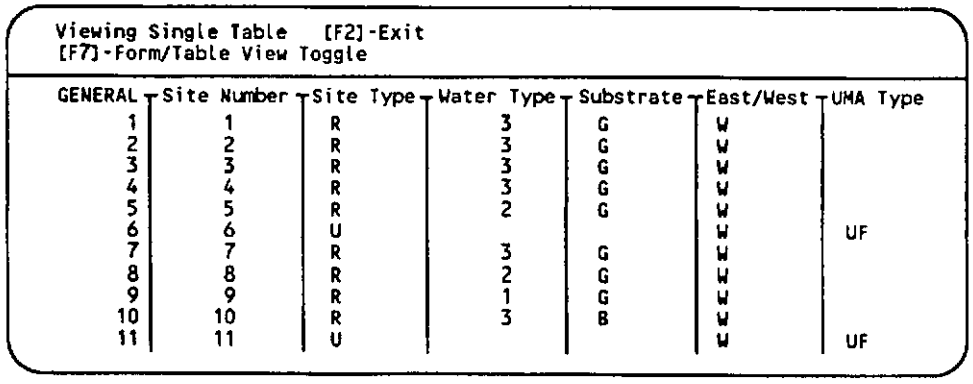
Making Menu Selections

Menu selections may be made by using the right and left cursor (arrow) keys to highlight the desired function and pressing Enter, or by depressing the first letter of the function keyword. For instance, depressing "g" will display the General table in Table View mode.

Menu Selection	Function
[Gen]	View General and linked LOD records.
[Strp]	View Strip and linked Tree records.
[Splot]	View Subplot and linked Dominant Herb & Shrub records.
[Veg1]	View Shrub & Herb code library.
[Veg2]	View Tree code library.
[Return]	Return to the Main Menu.

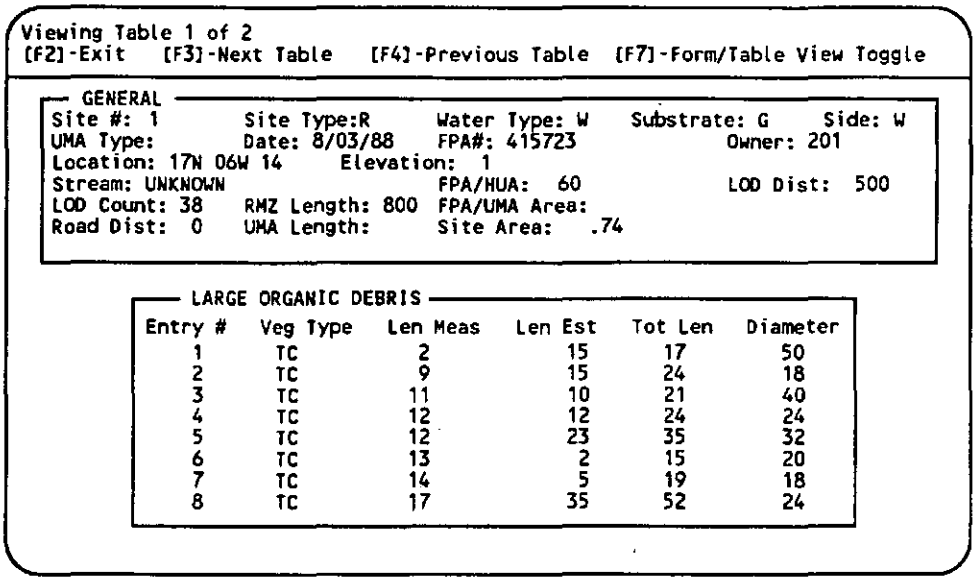
Viewing Data

In View Mode, data may be viewed in two formats, Form or Table. The default mode is Table View. In table view, only the high level table is displayed. In the picture below, the General table has been selected for viewing and is displayed in table



GENERAL	Site Number	Site Type	Water Type	Substrate	East/West	UMA Type
1	1	R	3	G	W	
2	2	R	3	G	W	
3	3	R	3	G	W	
4	4	R	3	G	W	
5	5	R	2	G	W	
6	6	U			W	UF
7	7	R	3	G	W	
8	8	R	2	G	W	
9	9	R	1	G	W	
10	10	R	3	B	W	
11	11	U			W	UF

mode. Use the up/down cursor (arrow) keys to select a site. Depressing the [F7] key will toggle viewing modes and allow viewing of the data in Form mode. Form view permits viewing of the top level record and its linked companion records.



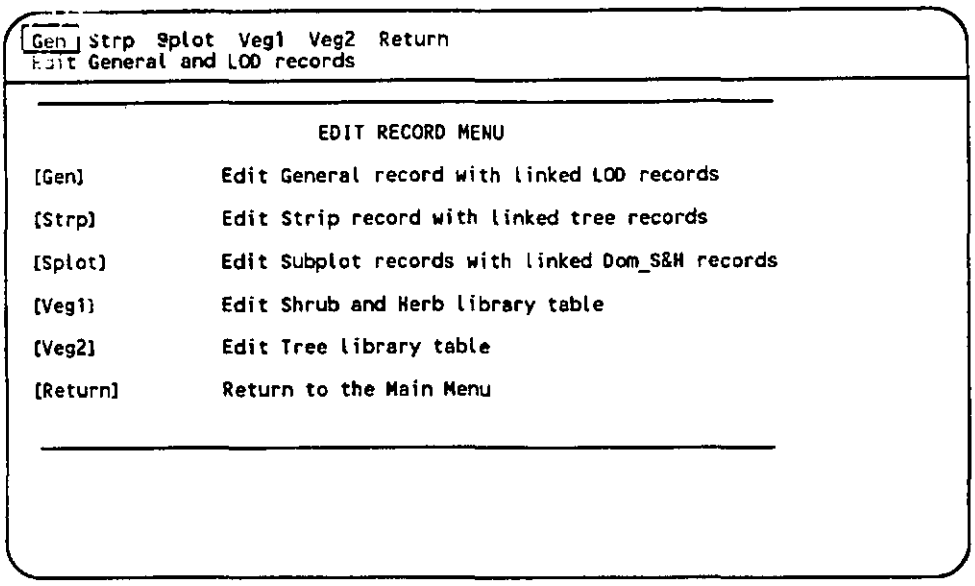
```
Viewing Table 1 of 2
[F2]-Exit   [F3]-Next Table   [F4]-Previous Table  [F7]-Form/Table View Toggle

 GENERAL
Site #: 1        Site Type:R      Water Type: W    Substrate: G     Side: W
UMA Type:        Date: 8/03/88    FPA#: 415723              Owner: 201
Location: 17N 06W 14      Elevation:  1
Stream: UNKNOWN                   FPA/HUA:  60              LOD Dist:  500
LOD Count: 38    RMZ Length: 800  FPA/UMA Area:
Road Dist:  0    UMA Length:      Site Area:   .74
```

LARGE ORGANIC DEBRIS

Entry #	Veg Type	Len Meas	Len Est	Tot Len	Diameter
1	TC	2	15	17	50
2	TC	9	15	24	18
3	TC	11	10	21	40
4	TC	12	12	24	24
5	TC	12	23	35	32
6	TC	13	2	15	20
7	TC	14	5	19	18
8	TC	17	35	52	24

SMS Edit Menu



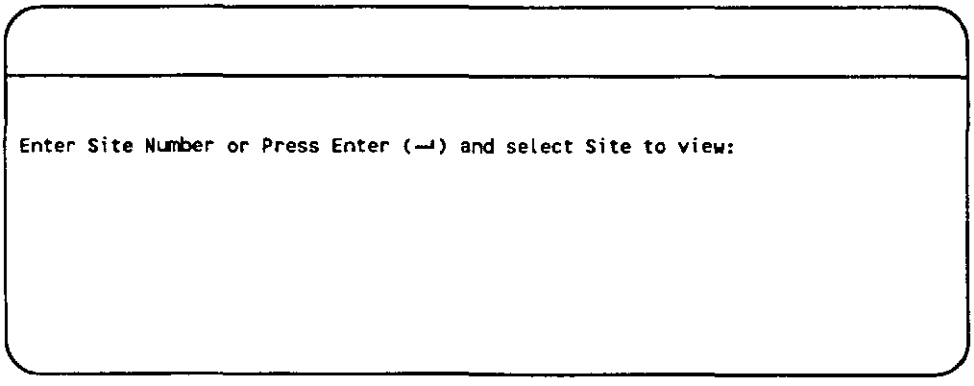
Making Menu Selections

Menu selections may be made by using the right and left cursor (arrow) keys to highlight the desired function and pressing Enter, or by depressing the first letter of the function keyword. For instance, depressing "g" will display the select prompt.

Menu Selection	Function
[Gen]	Edit General and linked LOD records.
[Strp]	Edit Strip and linked Tree records.
[Splot]	Edit Subplot and linked Dominant Herb & Shrub records.
[Veg1]	Edit Shrub & Herb code library.
[Veg2]	Edit Tree code library.
[Return]	Return to the Main Menu.

Editing Data

When a table is selected for editing, you may either enter the Site number or press Enter and use the up/down cursor (arrow) keys and [F2] to select a record. The



```
Move cursor to Site to select
[F2]-Select    [Esc]-Cancel

GENERAL | Site Number | Site Type | Water Type | Substrate | East/West | UMA Type
      1 |           1 |         R |          3 |         G |         W |
      2 |           2 |         R |          3 |         G |         W |
      3 |           3 |         R |          3 |         G |         W |
      4 |           4 |         R |          3 |         G |         W |
      5 |           5 |         R |          2 |         G |         W |
      6 |           6 |         U |            |           |         W |      UF
      7 |           7 |         R |          3 |         G |         W |
      8 |           8 |         R |          2 |         G |         W |
      9 |           9 |         R |          1 |         G |         W |
     10 |          10 |         R |          3 |         B |         W |
     11 |          11 |         U |            |           |         W |      UF
```

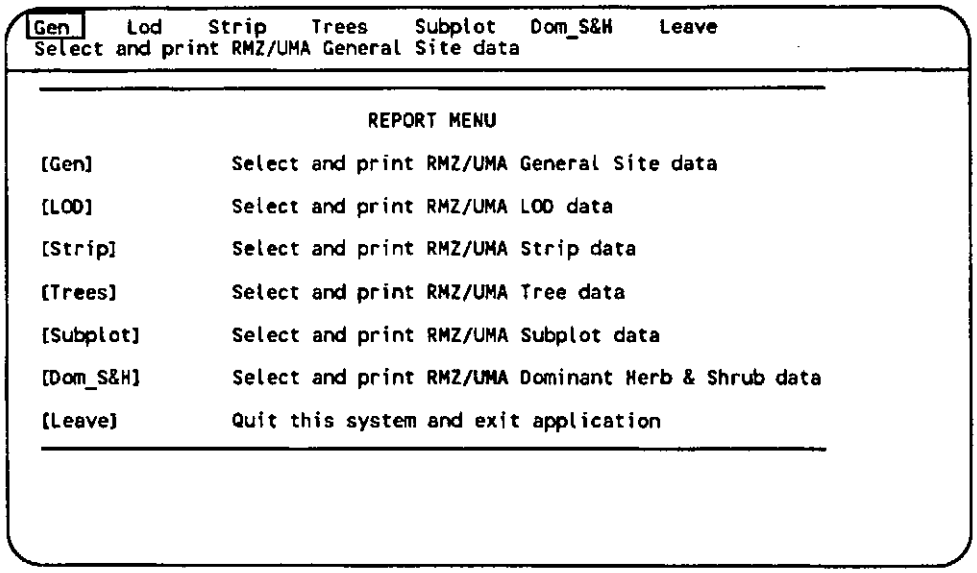
table selected for editing is always displayed in Table Format during the record selection process. After a site is selected, the top-level table and its companion data table are shown in Form format and Edit mode is activated.

```
Edit record  [Alt][F2]-Save/Exit   [F3]-Next Table   [F9]-Insert Record
[PgDn]-Next Record   [PgUp]-Previous Record   [Del]-Delete Record

 GENERAL
 Site #: 1        Site Type:R      Water Type: W    Substrate: G     Side: W
 UMA Type:        Date: 8/03/88    FPA#: 415723             Owner: 201
 Location: 17N 06W 14     Elevation:  1
 Stream: UNKNOWN                   FPA/HUA:  60             LOD Dist:  500
 LOD Count: 38    RMZ Length: 800  FPA/UMA Area:
 Road Dist:  0    UMA Length:      Site Area:   .74

   LARGE ORGANIC DEBRIS
   Entry #   Veg Type   Len Meas   Len Est   Tot Len   Diameter
         1         TC          2        15        17         50
         2         TC          9        15        24         18
         3         TC         11        10        21         40
         4         TC         12        12        24         24
         5         TC         12        23        35         32
         6         TC         13         2        15         20
         7         TC         14         5        19         18
         8         TC         17        35        52         24
```

SMS Report Menu



Making Menu Selections

Menu selections may be made by using the right and left cursor (arrow) keys to highlight the desired function and pressing Enter, or by depressing the first letter of the function keyword. For instance, depressing "t" will display the Tree Reports Menu.

Menu Selection	Function
[Gen]	Displays the General Reports Menu.
[LOD]	Displays the LOD Reports Menu.
[Strip]	Displays the Strip Reports Menu.
[Trees]	Display s the Tree Reports Menu.
[Subplot]	Displays the Subplot Reports Menu.
[Dom_S&H]	Displays the Dominant Herbs & Shrubs Reports Menu.
[Leave]	Return to the Main Menu.

Reports currently available within each menu selection:

General

Gen1	Eastside UMA sites by UMA type
Gen2	Westside UMA sites by UMA type
Gen3	Eastside RMZ sites by water type and substrate
Gen4	Westside RMZ sites by water type and substrate

Large Organic Debris (LOD)

LOD1	Eastside RMZ site LOD averages
LOD2	Westside RMZ site LOD averages

Strips

Strip1	Eastside UMA averages by UMA type
Strip2	Westside UMA averages by UMA type
Strip3	Eastside RMZ averages by water type
Strip4	Westside RMZ averages by water type

Trees

Tree1	Live tree counts by side, tree type and common name
Tree2	Live tree counts by side, tree size, tree type and common name
Tree3	Eastside UMA live tree counts by UMA type
Tree4	Westside UMA live tree counts by UMA type
Tree5	Eastside RMZ live tree counts by water type
Tree6	Westside RMZ live tree counts by water type
Tree7	Blowdowns, snags and stumps by side and type

Subplots

Subplot1	Eastside UMA averages by UMA type
Subplot2	Westside UMA averages by UMA type
Subplot3	Eastside RMZ averages by water type and substrate
Subplot4	Westside RMZ averages by water type and substrate

Dominant Herbs & Shrubs (Dom_S&H)

Dom_S&H1	Eastside UMA dominant herb & shrub average midpoint values
Dom_S&H2	Westside UMA dominant herb & shrub average midpoint values
Dom_S&H3	Eastside RMZ dominant herb & shrub average midpoint values
Dom_S&H4	Westside RMZ dominant herb & shrub average midpoint values

As the need arises, more reports may be added to this listing.

Washington Department of Wildlife

RMZ/UMA Site Management Information System

For
Habitat Management Division

Technical Reference Manual

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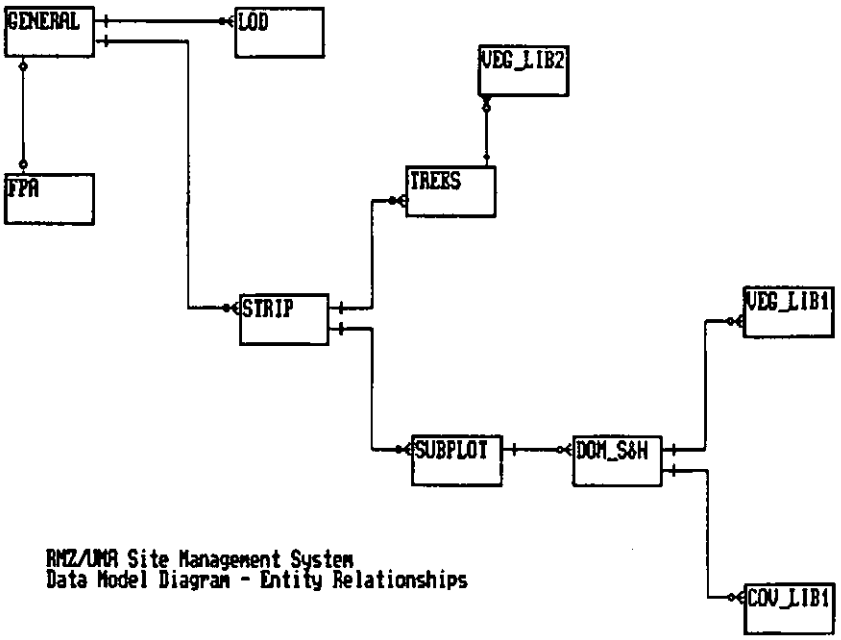
Contents

Section

Section 1

Data Model Diagram



RMZ/UMA Site Management System
Data Model Diagram - Entity Relationships

Section 2

Entity Documentation List
Attribute Documentation List

ENTITY DOCUMENTATION LIST

MODEL ID : SMS
MODEL NAME : RMZ/UMA SITE MANAGEMENTINFORMATION SYSTEM

1 COV_LIB1
Owner : DATA ADMINISTRATION
User : HABITAT
Password (Read) :
Password (Modify) :
Password (Add/Delete) :
Potential Capacity : 7
Current Capacity : 7
Growth Rate : 0 per YEAR
Growth Type : LINEAR
Growth Potential : 0 years to reach potential
Last Documented by : RMZSYS on 08/17/90
Description :
Contains coverage class codes and midpoint values. Used by other data files as a data lookup resource.

2 GENERAL
Owner : DATA ADMINISTRATION
User : HABITAT
Password (Read) :
Password (Modify) :
Password (Add/Delete) :
Potential Capacity : 999
Current Capacity : 227
Growth Rate : 100 per YEAR
Growth Type : LINEAR
Growth Potential : 8 years to reach potential
Last Documented by : RMZSYS on 06/05/91
Description :
General Data File. Contains general site information on Riparian Management Zones, Upland Management Areas, and Lakes.

3 LOD
Owner : DATA ADMINISTRATION
User : HABITAT
Password (Read) :
Password (Modify) :
Password (Add/Delete) :
Potential Capacity : 25461
Current Capacity : 5442
Growth Rate : 2549 per YEAR
Growth Type : LINEAR
Growth Potential : 8 years to reach potential
Last Documented by : RMZSYS on 06/05/91
Description :
Larege organic debris information.

4 STRIP
Owner : DATA ADMINISTRATION
User : HABITAT
Password (Read) :
Password (Modify) :
Password (Add/Delete) :
Potential Capacity : 10649
Current Capacity : 2207
Growth Rate : 1066 per YEAR
Growth Type : LINEAR
Growth Potential : 8 years to reach potential
Last Documented by : RMZSYS on 06/05/91
Description :
Contains stream measurement informatiom.

5 SUBPLOT
Owner : DATA ADMINISTRATION
User : HABITAT
Password (Read) :
Password (Modify) :
Password (Add/Delete) :
Potential Capacity : 65535
Current Capacity : 14270
Growth Rate : 6845 per YEAR
Growth Type : LINEAR
Growth Potential : 8 years to reach potential
Last Documented by : RMZSYS on 06/05/91
Description :
Contains site coverage information.

```
6       TREES
        Owner                 :  DATA ADMINISTRATION
        User                  :  HABITAT
        Password (Read)       :
        Password (Modify)     :
        Password (Add/Delete) :
        Potential Capacity    :  65535
        Current Capacity      :  17922
        Growth Rate           :  8479   per YEAR
        Growth Type           :  LINEAR
        Growth Potential      :  6      years to reach potential
        Last Documented by    :  RMZSYS  on  06/05/91
        Description           :
        Tree information.

7       DOM_S&H
        Owner                 :  DATA ADMINISTRATION
        User                  :  HABITAT
        Password (Read)       :
        Password (Modify)     :
        Password (Add/Delete) :
        Potential Capacity    :  65535
        Current Capacity      :  57080
        Growth Rate           :  8479   per YEAR
        Growth Type           :  LINEAR
        Growth Potential      :  6      years to reach potential
        Last Documented by    :  RMZSYS  on  06/05/91
        Description           :
        Dominant herb and shrub information.

8       VEG_LIB1
        Owner                 :  DATA ADMINISTRATION
        User                  :  HABITAT
        Password (Read)       :
        Password (Modify)     :
        Password (Add/Delete) :
        Potential Capacity    :  1000
        Current Capacity      :  278
        Growth Rate           :  50     per YEAR
        Growth Type           :  LINEAR
        Growth Potential      :  19     years to reach potential
        Last Documented by    :  RMZSYS  on  06/05 /91
        Description           :
        This library contains specific information on herbs and shrubs.
        It is used by other files as a data lookup resource.

9       VEG_LIB2
        Owner                 :  DATA ADMINISTRATION
        User                  :  HABITAT
        Password (Read)       :
        Password (Modify)     :
        Password (Add/Delete) :
        Potential Capacity    :  1000
        Current Capacity      :  33
        Growth Rate           :  50     per YEAR
        Growth Type           :  LINEAR
        Growth Potential      :  16     years to reach potential
        Last Documented by    :  RMZSYS  on  06/05/91
        Description           :
        This library contains specific information on trees. It is used
        by other files as a data lookup resource.
```

ATTRIBUTE DOCUMENTATION LIST

MODEL ID : SMS
MODEL NAME : RMZ/UMA SITE MANAGEMENT SYSTEM

1 ASPECT
Owner : SMS_STRIP.DB
Password (Read) :
Password (Modify) :
Type : I
Length : 1
Decimal Places : 0
Range : 0 - 9
Last Documented by : RMZSYS on 16/ 8/90
Description :
The aspect code of the hillside where the slope is measured:
1 = North 5 = South
2 = Northeast 6 = Southwest
3 = East 7 = West
4 = Southeast 8 = Northwest
9 = Level or rolling

2 AZIMUTH
Owner : SMS_STRIP.DB
Password (Read) :
Password (Modify) :
Type : I
Length : 3
Decimal Places : 0
Range :
Last Documented by : RMZSYS on 16/ 8/90
Description :
Azimuth in degrees from stake along centerline.

3 CANOPY_COVERAGE_VALUE
Owner : SMS_SUBPLOT.DB
Password (Read) :
Password (Modify) :
Type : X
Length : 4
Decimal Places : 1
Range :
Last Documented by : RMZSYS on 21/ 8/90
Description :
Percentage of canopy cover closure over the center of the stream

4 CODE_NAME
Owner : SMS_VEG_LIB1.DB
Password (Read) :
Password (Modify) :
Type : N
Length : 5
Decimal Places : 0
Range :
Last Documented by : SMS on 17/ 6/91
Description :
Five (5) digit alphanumeric name code. Refer to TFW Field Procedures Handbook.

5 CODE_NUMBER
Owner : SMS_VEG_LIB1.DB
Password (Read) :
Password (Modify) :
Type :
Length : 3
Decimal Places : 0
Range : 1 - 999
Last Documented by : SMS on 7/ 6/91
Description :
Tree species code identification number. Refer to the TFW Field Procedures Handbook.

6 COMMON_NAME
Owner : SMS_VEG_LIB.DB
Password (Read) :
Password (Modify) :
Type : A
Length : 30
Decimal Places : 0
Range :
Last Documented by : SMS on 17/ 6/91
Description :
Common name of vegetation sampled.

```
7       COVERAGE_VALUE
          Owner                 :  SMS_COV_LIB1.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  :  I
          Length                :  2
          Decimal Places        :  0
          Range                 :  0 -
          Last Documented by    :  SMS     on  17/ 6/91
          Description           :
          Coverage Values & Midpoint Values:
              0 =  0.0%
              1 =  2.5%
              2 = 15.0%
              3 = 37.5%
              4 = 62.5%
              5 = 85.0%
              6 = 97.5

8       DIAMETER
          Owner                 :  SMS_LOD.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  :  X
          Length                :  4
          Decimal Places        :  1
          Range                 :
          Last Documented by    :  SMS     on   7/ 6/91
          Description           :
          Diameter in inches taken at the larger end of the log

9       DIRECTION
          Owner                 :  SMS_STRIP.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  :  I
          Length                :  3
          Decimal Places        :  0
          Range                 :
          Last Documented by    :  RMZSYS  on  16/ 8/90
          Description           :
          The direction in degrees of the stream where the strip
          centerline meets the water.

10      DW1_COVERAGE_VALUE
          Owner                 :  SMS_SUBPLOT.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  :  I
          Length                :  1
          Decimal Places        :  0
          Range                 :  1 - 6
          Last Documented by    :  RMZSYS  on  16/ 8/90
          Description           :
          See DS1_COVERAGE_VALUE.

11      DW1_MIDPOINT
          Owner                 :  SMS_SUBPLOT.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  :  X
          Length                :  4
          Decimal Places        :  1
          Range                 :
          Last Documented by    :  RMZSYS  on  16/ 8/90
          Description           :
          Percentage of coverage

12      DW2_COVERAGE_VALUE
          Owner                 :  SMS_SUBPLOT.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  :  I
          Length                :  1
          Decimal Places        :  0
          Range                 :  1 - 6
          Last Documented by    :  RMZSYS  on  16/ 8/90
          Description           :
          See DS1_COVERAGE_VALUE

13      DW2_MIDPOINT
          Owner                 :  SMS_SUBPLOT.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  :  X
```

```
          Length                : 4
          Decimal Places        : 1
          Range                 :
          Last Documented by    : RMZSYS  on  16/ 8/90
          Description           :
          See DW1.

14        DW3_COVERAGE_VALUE
          Owner                 : SMS_SUBPLOT.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  : I
          Length                : 1
          Decimal Places        : 0
          Range                 : 1 - 6
          Last Documented by    : RMZSYS  on  16/ 8/90
          Description           :
          See DS1_COVERAGE_VALUE.

15        DW3_MIDPOINT
          Owner                 : SMS_SUBPLOT.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  : X
          Length                : 4
          Decimal Places        : 1
          Range                 :
          Last Documented by    : RMZSYS  on  16/ 8/90
          Description           :
          See DW1.

16        EAST/WEST
          Owner                 : SMS_GENERAL.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  : A
          Length                : 1
          Decimal Places        : 0
          Range                 :
          Last Documented by    : WAI     on   7/12/90
          Description           :
          Indicates on which side of the state the site location:
               E = East
               W = West

17        ELEVATION
          Owner                 : SMS_GENERAL.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  : I
          Length                : 2
          Decimal Places        : 0
          Range                 :
          Last Documented by    : RMZSYS  on  17/ 8/90
          Description           :
          The elevation at the midpoint of the site to the nearest one
          hundred (100) feet.

18        ENTRY_NUMBER
          Owner                 : SMS_LOD.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  : I
          Length                : 3
          Decimal Places        : 0
          Range                 : 1 - 999
          Last Documented by    : RMZSYS  on  18/10/90
          Description           :
          The line or block count of the LOD entry on Card 1B. There are
          66 entries per card. There may be multiples of Card 1b.

19        FINAL_SUBPLOT_LENGTH
          Owner                 : SMS_STRIP.DB
          Password (Read)       :
          Password (Modify)     :
          Type                  : I
          Length                : 1
          Decimal Places        : 0
          Range                 : 0 - 9
          Last Documented by    : SMS     on   7/ 6/91
          Description           :
          Horizontal length of the last subplot along center-line to the
          nearest foot, if subplot length is less than ten (10) feet.
```

```
20      FORBS_COVERAGE_VALUE
        Owner                   :  SMS_SUBPLOT.DB
        Password (Read)         :
        Password (Modify)       :
        Type                    :  I
        Length                  :  1
        Decimal Places          :  0
        Range                   :  1 - 6
        Last Documented by      :  SMS      on  17/ 6/91
        Description             :
        See DS1_COVERAGE_VALUE

21      FORBS_MIDPOINT
        Owner                   :  SMS_SUBPLOT.DB
        Password (Read)         :
        Password (Modify)       :
        Type                    :  X
        Length                  :  4
        Decimal Places          :  1
        Range                   :
        Last Documented by      :  RMZSYS  on  16/ 8/90
        Description             :
        Percentage of forb coverage at ground level.

22      FPA_HARVEST_UNIT_AREA
        Owner                   :  SMS_GENERAL.DB
        Password (Read)         :
        Password (Modify)       :
        Type                    :  I
        Length                  :  4
        Decimal Places          :  0
        Range                   :
        Last Documented by      :  RMZSYS  on  17/ 8/90
        Description             :
        The recorded area in acres from the DNR FPA that has not been
        used.

23      FPA_NUMBER
        Owner                   :  SMS_GENERAL.DB
        Password (Read)         :
        Password (Modify)       :
        Type                    :  N
        Length                  :  7
        Decimal Places          :  0
        Range                   :
        Last Documented by      :  SMS      on   7/ 6/91
        Description             :
        Forest Practices Application Number. Seven (7) digit number
        issued by the Department of Natural Resources. The first two
        (2) digits are the DNR Region Identifier.

24      FPA_UMA_AREA
        Owner                   :  SMS_GENERAL.DB
        Password (Read)         :
        Password (Modify)       :
        Type                    :  I
        Length                  :  5
        Decimal Places          :  0
        Range                   :
        Last Documented by      :  RMZSYS  on  16/ 8/90
        Description             :
        UMA area in acres as recorded on the DNR FPA.

25      GRADIENT
        Owner                   :
        Password (Read)         :
        Password (Modify)       :
        Type                    :  I
        Length                  :  2
        Decimal Places          :  0
        Range                   :
        Last Documented by      :  RMZSYS  on  12/ 6/90

26      GRAMINOID_COVERAGE_VALUE
        Owner                   :  SMS_SUBPLOT.DB
        Password (Read)         :
        Password (Modify)       :
        Type                    :  I
        Length                  :  1
        Decimal Places          :  0
        Range                   :  1 - 6
        Last Documented by      :  RMZSYS  on  16/ 8/90
        Description             :
        See DS1_COVERAGE_VALUE.
```

27 GRAMINOID_MIDPOINT
Owner : SMS_SUBPLOT.DB
Password (Read) :
Password (Modify) :
Type : X
Length : 4
Decimal Places : 1
Range :
Last Documented by : RMZSYS on 16/ 8/90
Description :
Percentage of graminoid coverage.

28 HS_CLASS
Owner : SMS DOM H&S
Password (Read) :
Password (Modify) :
Type : N
Length : 3
Decimal Places : 0
Range :
Last Documented by : SMS on 17/ 6/91
Description :
Dominant herb and shrub codes:
DH1 = Dominant Herb #1
DH2 = Dominant Herb #2
DS1 = Dominant Shrub #1
DS2 = Dominant Shrub #2

29 LENGTH_ESTIMATED
Owner : SMS_LOD.D
Password (Read) :
Password (Modify) :
Type : I
Length : 5
Decimal Places : 0
Range :
Last Documented by : SMS on 7/ 6/91
Description :
Estimated length to the nearest foot of LOD within the high water mark.

30 LENGTH_MEASURED
Owner : SMS_LOD.DB
Password (Read) :
Password (Modify) :
Type : I
Length : 5
Decimal Places : 0
Range :
Last Documented by : RMZSYS on 16/ 8/90
Description :
Length of log to nearest foot. Measure taken from larger end towards the narrower end of the log to where the diameter is four (4) inches.

31 LOD_DISTANCE
Owner : SMS_GENERAL.DB
Password (Read) :
Password (Modify) :
Type : I
Length : 5
Decimal Places : 0
Range :
Last Documented by : RMZSYS on 16/ 8/90
Description :
Distance in feet in which the required number of LOD pieces were measured.

32 MIDPOINT
Owner :
Password (Read) :
Password (Modify) :
Type : X
Length : 4
Decimal Places : 1
Range :
Last Documented by : SMS on 17/ 6/91
Description :
Percentage of cover.

```
33      OGC_COVERAGE_VALUE
        Owner                 :  SMS_SUBPLOT.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  I
        Length                :  1
        Decimal Places        :  0
        Range                 :  1 -
        Last Documented by    :  SMS     on  17/ 6/91
        Description           :
        See DS1_COVERAGE_VALUE.

34      OGC_MIDPOINT
        Owner                 :  SMS_SUBPLOT.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  X
        Length                :  4
        Decimal Places        :  1
        Range                 :
        Last Documented by    :  SMS     on  17/ 6/91
        Description           :
        Percentage of OGC coverage.

35      OWNER_CODE
        Owner                 :  SMS_GENERAL.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  A
        Length                :  1
        Decimal Places        :  0
        Range                 :
        Last Documented by    :  RMZSYS  on  16/ 8/90
        Description           :
        Code indicates type of ownership:
            I = Industrial
            P = Private
            S = State

36      RMZ_LENGTH_MEASURED
        Owner                 :  SMS_GENERAL.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  I
        Length                :  5
        Decimal Places        :  0
        Range                 :
        Last Documented by    :  SMS     on   7/ 6/91
        Description           :
        The total length measured in feet along the stream during strip
        plot staking.

37      RMZ_PLANT_ASSOCIATION
        Owner                 :  SMS_STRIP.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  A
        Length                :  14
        Decimal Places        :  0
        Range                 :
        Last Documented by    :  RMZSYS  on  16/ 8/90
        Description           :
        Riparian zone plant association.

38      ROAD_DISTANCE
        Owner                 :  SMS_GENERAL.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  I
        Length                :  5
        Decimal Places        :  0
        Range                 :
        Last Documented by    :  SMS     on   7/ 6/91
        Description           :
        The distance in feet to the nearest passable road calculated by
        using the FPA map and map wheel.

39      ROCK_COVERAGE_VALUE
        Owner                 :  SMS_SUBPLOT.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  I
        Length                :  1
        Decimal Places        :  0
        Range                 :  1 - 6
```

```
        Last Documented by    :  SMS     on  17/ 6/91
        Description           :
        See DS1_COVERAGE_VALUE

40      ROCK_MIDPOINT
        Owner                 :  SMS_SUBPLOT.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  X
        Length                :  4
        Decimal Places        :  1
        Range                 :
        Last Documented by    :  RMZSYS  on  16/ 8/90
        Description           :
        Percentage of rock coverage.

41      SCIENTIFIC_NAME
        Owner                 :  SMS_VEG_LIB1.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  A
        Length                :  40
        Decimal Places        :  0
        Range                 :
        Last Documented by    :  SMS     on  17/ 6/91
        Description           :
        Scientific name of vegetation sample.

42      SHRUB_COVERAGE_VALUE
        Owner                 :  SMS_SUBPLOT.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  I
        Length                :  1
        Decimal Places        :  0
        Range                 :  0 - 6
        Last Documented by    :  RMZSYS  on  16/ 8/90
        Description           :
        See DS1_COVERAGE_VALUE.

43      SHRUB_MIDPOINT
        Owner                 :  SMS_SUBPLOT.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  X
        Length                :  4
        Decimal Places        :  1
        Range                 :
        Last Documented by    :  RMZSYS  on  16/ 8/90
        Description           :
        Percentage of shrub coverage at ground level.

44      SITE_NUMBER
        Owner                 :  SMS_GENERAL.DB
        Password (Read)       :
        Password (Modify)
        Type                  :  I
        Length                :  3
        Decimal Places        :  0
        Range                 :  1 - 999
        Last Documented by    :  SMS     on   7/ 6/91
        Description           :
        A unique three (3) digit number that indicate the sequential
        order in which an RMZ or UMA site was sampled.

45      SITE_TYPE
        Owner                 :  SMS_GENERAL.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  A
        Length                :  1
        Decimal Places        :  0
        Range                 :
        Last Documented by    :  RMZSYS  on  16/ 8/90
        Description           :
        Alpha character code:
             R = RMZ
             U = UMA
             L = Lake or other water body.
```

```
46      SITE_WIDTH
        Owner                 :  SMS_STRIP.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  I
        Length                :  3
        Decimal Places        :  0
        Range                 :  0 - 999
        Last Documented by    :  RMZSYS  on  21/ 8/90
        Description           :
        The Riparian Zone width in feet along the strip center-line
        between points of vegetation changes, i.e., wetland to upland.

47      SIZE_CLASS
        Owner                 :  SMS_TREES
        Password (Read)       :
        Password (Modify)     :
        Type                  :  I
        Length                :  1
        Decimal Places        :  0
        Range                 :  1 - 7
        Last Documented by    :  RMZSYS  on  16/ 8/90
        Description           :
        Tree size class codes:
            Code       Diameter (Inches)
             1              0 -  3.9
             2              4 -  7.9
             3              8 - 11.9
             4             12 - 15.9
             5             16 - 19.9
             6             20 - 23.9
             7             24 or larger

48      SLOPE
        Owner                 :  SMS_STRIP.DB
        Password (Read)       :
        Password (Modify)
        Type                  :  I
        Length                :  2
        Decimal Places        :  0
        Range                 :  0 - 99
        Last Documented by    :  RMZSYS  on  16/ 8/90
        Description           :
        Measured slope in percent from stake along steepest gradient.

49      SOIL_COVERAGE_VALUE
        Owner                 :  SMS_SUBPLOT.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  I
        Length                :  1
        Decimal Places        :  0
        Range                 :  1 - 6
        Last Documented by    :  RMZSYS  on  16/ 8/90
        Description           :
        See DS1_COVERAGE_VALUE

50      SOIL_MIDPOINT
        Owner                 :  SMS_SUBPLOT.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  X
        Length                :  4
        Decimal Places        :
        Range                 :
        Last Documented by    :  SMS     on  17/ 6/91
        Description           :
        Percentage of soil coverage.

51      STREAM_CANOPY
        Owner                 :  SMS_STRIP.DB
        Password (Read)       :
        Password (Modify)     :
        Type                  :  I
        Length                :  2
        Decimal Places        :  0
        Range                 :  0 - 99
        Last Documented by    :  RMZSYS  on  16/ 8/90
        Description           :
        The percentage of canopy closure over the center of the stream.

52      STREAM_DEPTH
        Owner                 :  SMS_STRIP.DB
        Password (Read)       :
        Password (Modify)     :
```

Type : X
Length : 4
Decimal Places : 1
Range : 0 - 99.9
Last Documented by : RMZSYS on 17/ 8/90
Description :
The measured height in feet from the bottom of the stream to the ordinary high-water mark.

53 STREAM_NAME
Owner : SMS_GENERAL.DB
Password (Read) :
Password (Modify) :
Type : A
Length : 30
Decimal Places : 0
Range :
Last Documented by : RMZSYS on 17/ 8/90
Description :
Name of any existing stream within the boundary of the sampled site.

54 STREAM_WIDTH
Owner : SMS_STRIP.DB
Password (Read) :
Password (Modify) :
Type : I
Length : 3
Decimal Places : 0
Range : 0 - 999
Last Documented by : RMZSYS on 16/ 8/90
Description :
The width in feet of the stream along the strip centerline.

55 STRIP_NUMBER
Owner : SMS_STRIP.DB
Password (Read) :
Password (Modify) :
Type : N
Length : 3
Decimal Places : 0
Range :
Last Documented by : RMZSYS on 16/ 8/90
Description :
Three (3) character code. First two digits indicate the sequential strip number within the site. The third character indicates the side of the stream (L = left and R = right) on which the strip is located.

56 SUBPLOT_NUMBER
Owner : SMS_SUBPLOT.DB
Password (Read) :
Password (Modify) :
Type : I
Length : 3
Decimal Places : 0
Range : 1 - 999
Last Documented by : SMS on 17/ 6/91
Description :
Consecutively numbered subplot units along the strip center-line , beginning at the streambank or axis of UMA.

57 SUBSTRATE
Owner : SMS_GENERAL.DB
Password (Read) :
Password (Modify) :
Type : A
Length : 1
Decimal Places : 0
Range :
Last Documented by : RMZSYS on 16/ 8/90
Description :
The dominant substrate of the stream bed:
B = Boulder/Bedrock
G = Gravel/Cobble

58 TOPOSITE
Owner : SMS_STRIP.DB
Password (Read) :
Password (Modify) :
Type : I
Length : 1
Decimal Places : 0
Range : 1 - 8
Last Documented by : RMZSYS on 17/ 8/90
Description :
A descriptive code of the sample plots with regard to water conc
entration or dispersion characteristics as indicated by the loca
l physiographic variations within the stand.
1 = Sharp Ridgetop 2 = Flat Ridgetop
3 = Sidehill, upper 1/3 4 = Sidehill, middle 1/3
5 = Sidehill, lower 1/3 6 = Canyon Bottom
7 = Bench or Terrace 8 = Broad Flat

59 TOTAL_LENGTH
Owner :
Password (Read) :
Password (Modify) :
Type : I
Length : 6
Decimal Places : 0
Range : 0 - 999
Last Documented by : SMS on 7/ 6/90

60 TOWN/RANGE/SECTION
Owner : SMS_GENERAL.DB
Password (Read) :
Password (Modify) :
Type : N
Length : 12
Decimal Places : 0
Range :
Last Documented by : RMZSYS on 16/ 8/90
Description :
Legal location description consisting of Township/Range/Section.

61 TREE_CLASS
Owner : SMS_TREES.DB
Password (Read) :
Password (Modify) :
Type :
Length : 1
Decimal Places : 0
Range :
Last Documented by : RMZSYS on 21/ 8/90
Description :
Used to describe the physical condition of each sampled tree.
1 = Live trees, undamaged
2 = Snag Type 1 - Recent dead
3 = Snag Type 2 - Live tree, 1/3 to 1/2 of the top
broken out
4 = Snag Type 3 - Live tree, dead top
5 = Snag Type 4 - Older dead, bark tight
6 = Snag Type 5 - Older dead, no bark
S = Stump, greater than 5 years old
R = Stump, less than 5 years old

62 TREE_COUNT
Owner : SMS_TREES.DB
Password (Read) :
Password (Modify) :
Type : I
Length : 5
Decimal Places : 0
Range :
Last Documented by : SMS on 7/ 6/91
Description :
Number of trees or stumps on the strip for an indicated size
class.

63 UMA_AREA_MEASURED
Owner : SMS_GENERAL.D
Password (Read) :
Password (Modify) :
Type : I
Length : 5
Decimal Places : 0
Range :
Last Documented by : SMS on 7/ 6/91
Description :
Actual UMA area in acres measured at site.

64 UMA_LENGTH_MEASURED
Owner : SMS_GENERAL.DB
Password (Read) :
Password (Modify) :
Type : I
Length : 5
Decimal Places : 0
Range :
Last Documented by : SMS on 7/ 6/91
Description :
Total length in feet of UMA sampled.
Length = (number of strips - 1) * 250

65 UMA_TYPE
Owner : SMS_GENERAL.DB
Password (Read) :
Password (Modify) :
Type : A
Length : 2
Decimal Places : 0
Range :
Last Documented by : RMZSYS on 16/ 8/90
Description :
Indicates UMA type:
B = Bog
FW = Forested Wetland
UF = Upland Forest

66 UPLAND_PLANT_ASSOCIATION
Owner : SMS_STRIP.DB
Password (Read) :
Password (Modify) :
Type : A
Length : 14
Decimal Places : 0
Range :
Last Documented by : SMS on 7/ 6/91
Description :
Upland plant association.

67 VEGETATION_TYPE
Owner : SMS_VEG_LIB1.DB
Password (Read) :
Password (Modify) :
Type : A
Length : 2
Decimal Places : 0
Range
Last Documented by : SMS on 17/ 6/91
Description :
Vegetation Type Codes:
H = Herb
S = Shrub
TU = Tree - Unknown
TC = Tree - Conifer
TH = Tree - Hardwood

68 WATER_COVERAGE_VALUE
Owner : SMS_SUBPLOT.DB
Password (Read) :
Password (Modify) :
Type : I
Length : 1
Decimal Places : 0
Range : 1 - 6
Last Documented by : RMZSYS on 16/ 8/90
Description :
See DS1_COVERAGE_VALUE.

69 WATER_MIDPOINT
Owner : SMS_SUBPLOT.DB
Password (Read) :
Password (Modify) :
Type : X
Length : 4
Decimal Places : 1
Range :
Last Documented by : RMZSYS on 16/ 8/90
Description :
Percentage of water coverage.

```
70        WATER_TYPE
          Owner                  :  SMS_GENERAL.DB
          Password (Read)        :
          Password (Modify)      :
          Type                   :  I
          Length                 :  1
          Decimal Places         :  0
          Range                  :
          Last Documented by     :  RMZSYS  on  16/ 8/90
          Description            :
          Classification code indicates water type:
               1 =
               2 =
               3 =
  Description          :
```

Section 3

Application Revision History

Application Revision History

Version Number	Changes
ALPHA.08.90.01.00	Converted free-standing Smart Data Manager 3.01 data base files to Paradox 3.0 data tables and developed prototype PAL application.
08.90.01.01	Refined data tables and table relationships. Redesigned application interface. Added FIPS county code table and Herb & Shrub code libraries for added data entry error trapping.
08.90.02.00/0S	Converted data tables and PAL application to Paradox 3.5. Added report generation module. Embedded queries and menu splash screens in PAL procedures to reduce the overall number of files and to speed up application operation. The 0S version is packaged with Paradox 3.5 Runtime for distribution to other clients. The Add and Edit functions have been disabled in this version.

Section 4

Physical Data Base File Structures

Physical Data Base File Structures

Field Type Descriptors

A# - Alphanumeric
S - Short Integer (######)
N - Numeric (15 significant digits)
D - Date
* - Denotes Key

General.db

Field Name	Field Type
Site Number	S*
Site Type	A1
Water Type	S
Substrate	A1
East/West	A1
UMA Type	A2
Rdate	D
FPA Number	A7
Owner Code	A3
Town/Range/Section	A12
Elevation	S
Stream Name	A30
FPA Harvest Unit Area	N
LOD Distance	S
LOD Pieces	S
RMZ Length Measured	S
FPA UMA Area	N
Road Distance	S
UMA Length Measured	S
Site Area Measured	N

Lod.db

Field Name	Field Type
Site Number	S*
Site Type	A1*
Water Type	S*
Substrate	A1*
East/West	A1*
UMA Type	A2*
Entry Number	S*
Vegetation Type	A2
Length Measured	S
Length Estimated	S
Total Length	S
Diameter	S

Strip.db

Field Name	Field Type
Site Number	S*
Site Type	A1*
Water Type	S*
Substrate	A1*
East/West	A1*
UMA Type	A2*
Strip Number	A3*
Direction	S
Stream Canopy	S
Stream Width	S
Stream Depth	N
Gradient	S
Site Width	S
Azimuth	S
Slope	S
Aspect	S
Toposite	S
RMZ Plant Association	A14
Upland Plant Association	A14
Final Subplot Length	S

Trees.db

Field Name	Field Type
Site Number	S*
Site Type	A1*
Water Type	S*
Substrate	A1*
East/West	A1*
UMA Type	A2*
Strip Number	A3*
Entry Number	S*
Tree Class	A2*
Size Class	S*
Code Number	S*
Vegetation Type	A2
Common Name	A30
Tree Count	S

Subplot.db

Field Name	Field Type
Site Number	S*
Site Type	A1*
Water Type	S*
Substrate	A1*
East/West	A1*
UMA Type	A2*
Strip Number	A3*
Subplot Number	S*
Canopy Coverage Value	S
Shrub Coverage Value	S
Shrub Midpoint	N
Forbs Coverage Value	S
Forbs Midpoint	N
Graminoid Coverage Value	S
Graminoid Midpoint	N
DW1 Coverage Value	S
DW1 Midpoint	N
DW2 Coverage Value	S
DW2 Midpoint	N
DW3 Coverage Value	S
DW3 Midpoint	N
Water Coverage Value	S
Water Midpoint	N
Rock Coverage Value	S
Rock Midpoint	N
Soil Coverage Value	S
Soil Midpoint	N
OGC Coverage Value	S
OGC Midpoint	N

Dom_S&H.db

Field Name	Field Type
Site Number	S*
Strip Number	A3*
Subplot Number	S*
Class	A3*
Code Name	A5
Vegetation Type	A1
Common Name	A30
Coverage Value	S
Midpoint	N

Veg_lib1.db

Field Name	Field Type
Code Name	A5*
Vegetation Type	A1
Common Name	A30
Scientific Name	A40

Veg_lib2.db

Field Name	Field Type
Code Number	S*
Vegetation Type	A2
Common Name	A30
Scientific Name	A40

Cov_lib1.db

Field Name	Field Type
Coverage Value	S*
Midpoint	N

Section 5

Operating Requirements Installation

Operating Requirements

Minimum Hardware

IBM PC/AT or compatible 80286
1Mb RAM (640K System RAM + 384 Extended)
15Mb available hard disk space
1.2 Mb Diskette drive
CGA Adapter & Monitor
Epson FX-100 or compatible

Minimum Software

PC/MS-DOS 3.1

Optimum Hardware

80386 CPU
4Mb RAM (640K System RAM + 3456 Extended)
20Mb available hard disk space
1.44Mb Diskette drive
VGA Adapter & Monitor
Epson FX-100 or compatible

Optimal Software

PC/MS-DOS 4.01 or later

Application Software

The RMZ/UMA Site Management Information System (SMS) is provided as a complete, self contained application. All executable programs, data bases, and other system files, other than those aforementioned, are provided on the installations diskettes.

Performance Considerations

It may be possible to install and run SMS on an 8088 CPU (XT class PC), however, the size and number of the un-compressed system files may make this impractical. 80286 CPU's do offer a significant increase in overall system performance but report generation is somewhat slow. Disk space availability is also crucial. SMS requires approximately 12Mb for storage and a minimum of 3Mb of disk space for creating temporary work and page files. Within limits, if your total system RAM is 1Mb or less, the application will use any available disk space for dynamic memory paging.

80386 and 80386SX CPU's with 4Mb RAM and relatively fast hard disks (<25ms access times) have provided the best performance. Additional RAM has not significantly improved performance.

VGA adapters and monitors provide excellent screen refresh rates. VGA adapters with on-board video RAM pre-process the screens and do not impact system RAM for screen handling.

All reports are preconfigured to print on Epson FX-100 dot matrix or compatible printers. Due to the wide range of printers available, it was chosen because it is the most commonly supported.

Installation

The RMZ/UMA SMS media package consists of the following manuals and diskettes:

SMS User Reference Manual
SMS Technical Reference Manual
SMS Installation 1 Diskette
SMS/Paradox Program 1 Diskette

**** Note **** *This application is supplied on 5 1/4" or 3 1/2" high density diskettes.Certain assumptions have been made with regard to diskette size/capacity formats and incompatabilities between PC/MS DOS versions. These assumptions are;*

1 - 3 1/2" diskette drives are usually configured as drive B:

2 - Most newer laptops have one 3 1/2" high density diskette drive that can be A: or B:. For installation on a lap-top the default is set to drive B:.

3 - Most personal computers have PC/MS DOS 3.1 or later installed and can support at least one high density diskette format.

Do not attemp to install this application on personal computers that have pre-DOS 3.0 versions.

PC/MS-DOS 3.xx Installation (5 1/4" Diskettes)

1 - Place the SMS Installation 1 diskette in drive A: and engage the drive latch.

2 - Make A: the default drive by typing A: and pressing Enter.

3 - At the A:\> prompt, type **INSTALL3 C:** and press Enter. ******

4 - Follow the directions displayed on the monitor to continue installation.

5 - When prompted, place the SMS/Paradox diskette in drive A;.

6 - When installation is complete, store the diskettes in a safe place.

PC/MS-DOS 4.xx Installation (5 1/4" Diskettes)

1 - Place the SMS Installation 1 diskette in drive A: and engage the drive latch.

2 - Make A: the default drive by typing A: and pressing Enter.

3 - At the A:\> prompt, type **INSTALL4 C:** and press Enter. ******

4 - Follow the directions displayed on the monitor to continue installation.

5 - When installation is complete, store the diskettes in a safe place.

****** *You may install this application on a variety of hard disks, however, you must specify the disk. For instance, if you want to install the application on a 20Mb Bernoulli drive that is configure as drive F: and you are using MS-DOS 3.1, you would type:*

install3 f:

then depress Enter.

Installation for systems with 3 1/2" diskette drives are the same as those illustrated above with the exception that drive B: is the default diskette drive.

This is a single-user application. Although it may be installed on a network drive, it is not configured for multi-user access.

For a complete listing of the installation files, refer to the **Support Programs** section of this manual.

Section 6

Application Procedures List

Procedure	Size
Main	4874
Gen_enter	5061
Strip_enter	4933
Subplot_enter	4937
GetGenNum	1749
EditGenByNum	3684
GetStrpNum	1747
EditStrpbyNum	3684
GetSplotNum	1749
EditSplotByNum	3688
GetV1CodeName	1709
EditV1ByName	3030
GetV2CodeNum	1706
EditV2ByNum	3021
GetTbl	480
ViewTbls	2088
ViewTblsMenu	2029
ReptMenu	18753
GenRept1	1464
GenRept2	1464
GenRept3	1380
GenRept4	1380
LODRept1	1135
LODRept2	1135
StripRept1	1584
StripRept2	1584
StripRept3	1621
StripRept4	1621
TreeRept1	890
TreeRept2	987
TreeRept3	962
TreeRept4	962
TreeRept5	1006
TreeRept6	1173
TreeRept7	905
SubplotRept1	2330
SubplotRept2	2330
SubplotRept3	2437
SubplotRept4	2437
DomSHRept1	1321
DomSHRept2	1321
DomSHRept3	1378
DomSHRept4	1378
HardCopy	2642
RqdRulesGen	672
RqdRulesLOD	591
RqdRulesStrip	452
RqdRulesTrees	824
RqdRulesSplot	627
RqdRulesDSH	305
GenValChecks	964
StrpValChecks	1072
SplotValChecks	1074
Siteg	1437
Splash1	1057
Splash2	1152
Splash3	1152
Splash4	962
R_Splash1	1247
R_Splash2	1057
R_Splash3	867
R_Splash4	1057
R_Splash5	1342
R_Splash6	1057
R_Splash7	1057
MakeRec	473
KillRec	745
FldBlank	527

Section 7

Application Program Listing

```
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723

; SiteMake
;  This script creates the SITE program (SITEPROG.LIB) library.

CURSOR OFF
CLEAR
MESSAGE "Creating SiteProg library, Please wait..."
CANVAS OFF

Run NoRefresh "del *.lib >nul"

CREATELIB "SiteProg" SIZE 70

     PLAY "SiteMenu"

     PLAY "SMS1Entr"
     PLAY "SMS2Entr"
     PLAY "SMS3Entr"

     PLAY "SMS1Edit"
     PLAY "SMS2Edit"
     PLAY "SMS3Edit"
     PLAY "Veg1Edit"
     PLAY "Veg2Edit"

     PLAY "SiteView"

     PLAY "ReptMenu"
     PLAY "ReptQury"

     PLAY "SMS1Vald"
     PLAY "SMS2Vald"
     PLAY "SMS3Vald"

     PLAY "SMS1VlCk"
     PLAY "SMS2VlCk"
     PLAY "SMS3VlCk"

     PLAY "SiteSupp"

; List the contents of the library
INFOLIB "SiteProg"
QUIT "SiteProg library created, contents listed above"
```

```
; Start.sc
; RMZ/UMA Site Management Information System Start-up script.

CLEAR
CLEARALL
autolib = "SiteProg"
Main()
RELEASE VARS ALL
EXIT
```

```
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723

; SiteMenu.sc
; SMS Main Menu Program

Proc Closed Main()
; Put up the greeting screen
@ 2,0
Autolib = "SiteProg"
Siteg()
     While True
          Reset Clear
          ClearAll
          Canvas On

;         Play "SMSplash" ; Main menu splash screen
          Autolib = "SiteProg"
          Splash1()

          ShowMenu
                 "Add": "Add records to selected tables",
                "View": "View a table",
                "Edit": "Edit records in selected tables",
              "Report": "Go to the Reports Menu",
               "Leave": "Leave the system"
          to sel

          Switch
               case sel = "Add" :
                    Autolib = "SiteProg"
                    Splash4()
                    ShowMenu
                           "Gen"    : "Enter General and LOD records",
                           "Strp"   : "Enter Strip and Tree records",
                           "Splot"  : "Enter Subplot and Dominant Herb & Shrub records",
                         "Return"   : "Go back to the Main Menu"
                    To addsel
                    Switch
                         Case addsel = "Gen" :
                              Autolib = "SiteProg"
                              Gen_enter()
                         Case addsel = "Strp" :
                              Autolib = "SiteProg"
                              Strip_enter()
                         Case addsel = "Splot" :
                              Autolib = "SiteProg"
                              Subplot_enter()
                         Otherwise: Loop
                    EndSwitch

               case sel = "View" :
                    Autolib = "SiteProg"
                    GetTbl()
               case sel = "Edit"  :
                    Autolib = "SiteProg"
                    Splash3()
                    ShowMenu
                          "Gen"    : "Edit General and LOD records",
                          "Strp"   : "Edit Strip and Tree records",
                          "Splot"  : "Edit Subplot and Dominant Herb & Shrub records",
                          "Veg1"   : "Edit Shrub and Herb Lookup library",
                          "Veg2"   : "Edit Tree lookup library",
                        "Return"   : "Go back to the Main Menu"
                    To edsel
                    Switch
                         Case edsel = "Gen" :
                              Autolib = "SiteProg"
                              EditGenByNum()
                         Case edsel = "Strp" :
                              Autolib = "SiteProg"
                              EditStrpbyNum()
                         Case edsel = "Splot" :
                              Autolib = "SiteProg"
                              EditSplotByNum()
                         Case edsel = "Veg1" :
                              Autolib = "SiteProg"
                              EditV1ByName()
```

```
                    Case edsel = "Veg2" :
                         Autolib = "SiteProg"
                         EditV2ByNum()
                    Otherwise: Loop
               EndSwitch
          case sel = "Report":   ;    Run Report Menu
                    Autolib = "SiteProg"
                    ReptMenu()
          case sel = "Help"  : "";    not defined
          case sel = "Leave" :
               ShowMenu
                    "Leave": "Leave the system",
                   "Return": "Go back to the Main Menu"
               to subsel

               Switch
                    case subsel = "Leave":
                         QuitLoop
                    Otherwise: Loop
               EndSwitch
          OtherWise:Loop

     EndSwitch

EndWhile
EndProc

WriteLib "SITEPROG" Main
Release Procs Main
```

```
; SMS1ENTR.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723

;  ****************************************
;  * Gen_enter Procedure                  *
;  ****************************************
;
; This script contains the procedure for entering data into a multitable form
; for the following two tables:
;      General - Master table
;      LOD     - One-to-Many relationship
;
; ValChecks are augmented with PAL to ensure the required fields are entered,
; relational comparisons between fields are validated, and the defaults are
; entered into a field if they are left blank.  These checks are made before
; a user can move off the record.

PROC Gen_enter()
  CLEAR
  CURSOR OFF                                        ; Place informational message
  MESSAGE "Loading form, Please wait"               ; on the screen while form is
  CANVAS OFF                                        ; loading.
  IF ISEMPTY("General") THEN                        ; If the table is empty, set
    siteno = 1                                      ; the site counter to 1
  ELSE                                              ; otherwise calculate the max
    siteno = CMAX("General","Site Number") + 1      ; site in the table and add 1.
  ENDIF                                             ; This is used to set the site
                                                    ; number.
  MENU (Modify) (DataEntry) (General)
  (Image) (Pickform) (F)
  [Site Number] = siteno
  siteno = siteno + 1
  msg    = ""
  CANVAS ON                                         ; Need to turn canvas on!
  WHILE True
    IF NOT ISBLANK(msg) THEN                        ; If there is a message sound
      BEEP SLEEP 100 BEEP SLEEP 100 BEEP            ; the system bell.
    ENDIF
    WAIT RECORD
      PROMPT "ADD RECORDS  [Alt][F2]-Save/Exit  [Esc]-Cancel  [F3]-General  [F4]-LOD",
             "[PgDn]-New Record  [PgUp]-Previous Record"
      MESSAGE msg
                                                                  ; Keystroke codes
      UNTIL "F3","F4","Esc","PgDn","PgUp","End","Home",-105,      ; 15=Ctrl O, -105=Alt F2
            15,-24                                                ;-24=Alt O

    retkey = retval                                 ; Save the key pressed
    msg = ""                                        ; Blank message variable
    tblname = TABLE()

    IF retkey <> "Esc" THEN                         ; If any key except Esc is
      retprocval = GenValChecks(tblname)            ; pressed, check if data is
                                                    ; valid.
      IF NOT retprocval THEN                        ; If the proc returns False
        LOOP                                        ; the data did not pass the
      ENDIF                                         ; validation rule therefore do
    ELSE                                            ; not process the key pressed.
      SHOWMENU
        "No"   : "Return to Data entry",
        "Yes"  : "Cancel data entry session"
      TO canceloption
      IF canceloption = "Yes" THEN
        CLEAR
        MESSAGE "Data entry cancelled"
        CANVAS OFF
        CANCELEDIT
        QUITLOOP
      ENDIF
      LOOP
    ENDIF
    SWITCH
      CASE retkey = -105 :                          ; Alt F2 depressed - save
           CLEAR                                    ; records.
           MESSAGE "Saving data, Please wait"
           DO_IT!                                   ;
           QUITLOOP                                 ;
      CASE retkey = "F3" : MOVETO "Entry"  LOOP     ; Moveto general table
      CASE retkey = "F4" : MOVETO "Entry1" LOOP     ; Moveto lod table
```

```
      CASE retkey = "PgDn" :
           SWITCH
             CASE tblname = "Entry" :
                  MOVETO "Entry"                        ; Moveto general table.
                  PgDn                                  ; Moveto next general record.
                  IF ISBLANK([Site Number]) THEN        ; If this is a new record
                    [Site Number] = siteno              ; set the site number.
                    siteno = siteno + 1                 ; Increment site counter.
                  ENDIF
             CASE tblname = "Entry1" :                  ; Moveto next record in
                  DOWN CtrlHome                         ; LOD table
           ENDSWITCH
      CASE retkey = "PgUp" :
           IF ATFIRST() THEN                            ; If on the first record
             BEEP                                       ; beep and don't move
             LOOP
           ENDIF
           SWITCH
             CASE tblname = "Entry" :
                  MOVETO "Entry"                        ; Move to general table.
                  SKIP -1                               ; Moveto previous general
                                                        ; record.
             CASE tblname = "Entry1" :                  ; Move to previous record in
                  SKIP -1                               ; lod table
           ENDSWITCH
           LOOP
      OTHERWISE:
           IF retkey = 15 OR retkey = -24 THEN          ; Beep if Alt or Ctrl O
             BEEP                                       ; is pressed.
           ELSE
             KEYPRESS retkey                            ; Accept the pressed key.
           ENDIF
    ENDSWITCH
  ENDWHILE
  CLEARALL

ENDPROC

WRITELIB "SiteProg" Gen_enter
RELEASE PROCS Gen_enter
```

```
; SMS2ENTR.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
;  ****************************************
;  * Strip_Enter Procedure                *
;  ****************************************
;
; This script contains the procedure for entering data into a multitable form
; for the following three tables:
;      Strip  - Master table
;      Tree   - One-to-Many relationship
; ValChecks are augmented with PAL to ensure the required fields are entered,
; relational comparisons between fields are validated, and the defaults are
; entered into a field if they are left blank.  These checks are made before
; a user can move off the record.

PROC Strip_enter()
  CLEAR
  CURSOR OFF                                            ; Place informational message
  MESSAGE "Loading form, Please wait"                   ; on the screen while form is
                                                        ; loading.
  IF ISEMPTY("Strip") THEN                              ; If the table is empty, set
    siteno = 1                                          ; the site counter to 1
  ELSE                                                  ; otherwise get the site number
    CLEAR                                               ; from the user.
    @5,0 ?? "Enter Site Number for new Strip and press RETURN (\17\217): "
    STYLE REVERSE
    ACCEPT "S" MIN 1 MAX 999999 TO siteno
  ENDIF

  MENU (Modify) (DataEntry) (Strip)
  (Image) (Pickform) (F)
  [Site Number] = siteno
  msg   = ""
```

```
  CANVAS ON                                          ; Need to turn canvas on!
  WHILE True
    IF NOT ISBLANK(msg) THEN                         ; If there is a message sound
      BEEP SLEEP 100 BEEP SLEEP 100 BEEP             ; the system bell.
    ENDIF
    WAIT RECORD
      PROMPT "ADD RECORDS  [Alt][F2]-Save/Exit  [Esc]-Cancel  [F3]-Strip  [F4]-Trees",
             "[PgDn]-New Record  [PgUp]-Previous Record"
      MESSAGE msg
                                                     ; Keystroke codes
      UNTIL "F3","F4","Esc","PgDn","PgUp","End","Home",-105,  ; 15=Ctrl O, -105=Alt F2
            15,-24                                   ;-24=Alt O

    retkey = retval                                  ; Save the key pressed
    msg = ""                                         ; Blank message variable
    tblname = TABLE()
    IF retkey <> "Esc" THEN                          ; If any key except Esc is
      retprocval = StripValChecks(tblname)           ; pressed, check if data is
                                                     ; valid.
      IF NOT retprocval THEN                         ; If the proc returns False
        LOOP                                         ; the data did not pass the
      ENDIF                                          ; validation rule therefore do
    ELSE                                             ; not process the key pressed.
      SHOWMENU
        "No"   : "Return to Data entry",
        "Yes"  : "Cancel data entry session"
      TO canceloption
      IF canceloption = "Yes" THEN
        CLEAR
        MESSAGE "Data entry cancelled"
        CANVAS OFF
        CANCELEDIT
        QUITLOOP
      ENDIF
      LOOP
    ENDIF

    SWITCH
      CASE retkey = -105 :                           ; Alt F2 depressed - save
           CLEAR                                     ; records.
           MESSAGE "Saving data, Please wait"
           DO_IT!                                    ;
           QUITLOOP                                  ;
      CASE retkey = "F3" : MOVETO "Entry"  LOOP      ; Moveto strip Table
      CASE retkey = "F4" : MOVETO "Entry1" LOOP      ; Moveto trees Table
      CASE retkey = "PgDn" :
           SWITCH
             CASE tblname = "Entry" :
                  MOVETO "Entry"                     ; Moveto strip table.
                  PgDn                               ; Moveto next strip record
             CASE tblname = "Entry1" :               ; Moveto next record in
                  DOWN CtrlHome                      ; trees table
           ENDSWITCH
      CASE retkey = "PgUp" :
           IF ATFIRST() THEN
             BEEP
             LOOP
           ENDIF
           SWITCH
             CASE tblname = "Entry" :
                  MOVETO "Entry"                     ; move to strip table.
                  SKIP -1                            ; Moveto previous strip
                                                     ; record.
             CASE tblname = "Entry1" :               ; Move to previous record in
                  SKIP -1                            ; trees table
           ENDSWITCH
           LOOP
      OTHERWISE:
           IF retkey = 15 OR retkey = -24 THEN       ; Beep if Alt or Ctrl O
             BEEP                                    ; is pressed
           ELSE
             KEYPRESS retkey
           ENDIF
    ENDSWITCH
  ENDWHILE
  CLEARALL

ENDPROC

WRITELIB "SiteProg" Strip_enter
RELEASE PROCS Strip_enter
```

```
; SMS3ENTR.SC

;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
;  ****************************************
;  * Subplot_Enter Procedure              *
;  ****************************************
;
; This script contains the procedure for entering data into a multitable form
; for the following three tables:
;      Subplot  - Master table
;      Dom_S&H  - One-to-Many relationship
; ValChecks are augmented with PAL to ensure the required fields are entered,
; relational comparisons between fields are validated, and the defaults are
; entered into a field if they are left blank.  These checks are made before
; a user can move off the record.

PROC Subplot_enter()
  CLEAR
  CURSOR OFF                                        ; Place informational message
  MESSAGE "Loading form, Please wait"               ; on the screen while form is
                                                    ; loading.
  IF ISEMPTY("Subplot") THEN                        ; If the table is empty, set
    siteno = 1                                      ; the site counter to 1
  ELSE                                              ; otherwise get the site number
    CLEAR                                           ; from the user.
    @5,0 ?? "Enter Site Number for new Subplot and press RETURN (\17\217): "
    STYLE REVERSE
    ACCEPT "S" MIN 1 MAX 999999 TO siteno
  ENDIF

  MENU (Modify) (DataEntry) (Subplot)
  (Image) (Pickform) (F)
  [Site Number] = siteno
  msg   = ""
  CANVAS ON                                         ; Need to turn canvas on!
  WHILE True
    IF NOT ISBLANK(msg) THEN                        ; If there is a message sound
      BEEP SLEEP 100 BEEP SLEEP 100 BEEP            ; the system bell
    ENDIF
    WAIT RECORD
      PROMPT "ADD RECORDS  [Alt][F2]-Save/Exit  [Esc]-Cancel  [F3]-Strip  [F4]-Trees",
             "[PgDn]-New Record  [PgUp]-Previous Record"
      MESSAGE msg
                                                                  ; Keystroke codes
      UNTIL "F3","F4","Esc","PgDn","PgUp","End","Home",-105,  ; 15=Ctrl O, -105=Alt F2
            15,-24                                                    ;-24=Alt O
    retkey = retval                                 ; Save the key pressed
    msg = ""                                        ; Blank message variable
    tblname = TABLE()
    IF retkey <> "Esc" THEN                         ; If any key except Esc is
      retprocval = SplotValChecks(tblname)          ; pressed, check if data is
                                                    ; valid.
      IF NOT retprocval THEN                        ; If the proc returns False
        LOOP                                        ; the data did not pass the
      ENDIF                                         ; validation rule therefore do
    ELSE                                            ; not process the key pressed.
      SHOWMENU
        "No"   : "Return to Data entry",
        "Yes"  : "Cancel data entry session"
      TO canceloption
      IF canceloption = "Yes" THEN
        CLEAR
        MESSAGE "Data entry cancelled"
        CANVAS OFF
        CANCELEDIT
        QUITLOOP
      ENDIF
      LOOP
    ENDIF
    SWITCH
      CASE retkey = -105 :                          ;Alt F2 depressed - save
           CLEAR                                    ;records.
           MESSAGE "Saving data, Please wait"
           DO_IT!                                   ;
           QUITLOOP                                 ;
      CASE retkey = "F3" : MOVETO "Entry"  LOOP     ; Moveto subplot Table
      CASE retkey = "F4" : MOVETO "Entry1" LOOP     ; Moveto doms&h Table
      CASE retkey = "PgDn" :
```

```
          SWITCH
            CASE tblname = "Entry" :
                 MOVETO "Entry"                  ; Moveto subplot table.
                 PgDn                            ; Moveto next ssubplot record
            CASE tblname = "Entry1" :            ; Moveto next record in
                 DOWN CtrlHome                   ; doms&h table
           ENDSWITCH
      CASE retkey = "PgUp" :
           IF ATFIRST() THEN
             BEEP
             LOOP
           ENDIF
           SWITCH
             CASE tblname = "Entry" :
                  MOVETO "Entry"                 ; move to strip table.
                  SKIP -1                        ; Moveto previous subplot
                                                 ; record.
             CASE tblname = "Entry1" :           ; Move to previous record in
                  SKIP -1                        ; doms&h table
           ENDSWITCH
           LOOP
      OTHERWISE:
           IF retkey = 15 OR retkey = -24 THEN   ; Beep if Alt or Ctrl O
             BEEP                                ; is pressed
           ELSE
             KEYPRESS retkey
           ENDIF
    ENDSWITCH
  ENDWHILE
  CLEARALL

ENDPROC

WRITELIB "SiteProg" Subplot_enter
RELEASE PROCS Subplot_enter
```

```
;SMS1EDIT.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
; This script contains the procedures for editing data in a multitable form
; for the following two tables:
;        General - Master table
;        LOD     - One-to-Many relationship
;
; Although new LOD records may be entered, no provision is made for error or
; validity checking (see SMS#VALD.SC and SMS#VLCK.SC).

PROC GetGenNum()
 PRIVATE sitenum
  CLEAR
  sitenum = 0

  @ 5,0 ?? "Enter Site Number or Press ENTER (\17\217) and select Site to edit: "
  STYLE REVERSE
  ACCEPT "S" Min 1 Max 999999 TO sitenum
  STYLE
  IF retval = False THEN
    RETURN False
  ELSE
    IF ISBLANK(sitenum) THEN
      MOVETO "General"
      WHILE True
        WAIT TABLE
          PROMPT "Move cursor to Site to select",
                 "[F2]-Select    [Esc]-Cancel"
          UNTIL "F2","Esc","DOS","DOSBIG","ZOOM","ZOOMNEXT"
        SWITCH
          CASE retval = "F2"  : sitenum = [Site Number] QUITLOOP
          CASE retval = "Esc" : sitenum = False         QUITLOOP
          OTHERWISE           : BEEP
        ENDSWITCH
      ENDWHILE
    ENDIF
  ENDIF
  RETURN sitenum
ENDPROC

WriteLib "SiteProg" GetGenNum
Release Procs GetGenNum

PROC EditGenByNum()
 PRIVATE sitenum, anyrcdflag
;
; Private variables:
;   sitenum    - site number to edit
;   anyrcdflag - flag to indicate if any records where found in scan

  VIEW "General"
  sitenum = GetGenNum()                       ; Get number of site to edit
  CLEAR
  IF sitenum = False THEN                     ; If no site selected
    MESSAGE "No RMZ/UMA site selected"
    SLEEP 3000
  ELSE
    MESSAGE "Selecting records for Site number ",sitenum,", please wait..."
    COEDIT "General"
    MENU (Image) (PickForm) (F)
    anyrcdflag = 1
    SCAN FOR [Site Number] = sitenum
      anyrcdflag = 0                          ; Set flag to indicate at least
      WHILE True                              ; one record exists
        WAIT RECORD
          PROMPT "Edit record  [Alt][F2]-Save/Exit  [F3]-Next Table  [F9]-Insert Record",
                 "[PgDn]-Next Record  [PgUp]-Previous Record  [Del]-Delete Record"
          UNTIL "F3","PgDn","PgUp",-105,"DOS","DOSBIG","ZOOM","ZOOMNEXT","F9","Del"

        SWITCH
          CASE retval = "F3"    : DOWNIMAGE LOOP
          CASE retval = "F9"    :             ; Insert new record
               SWITCH
                 CASE TABLE() = "Lod" :
                    MakeRec()
                    LOOP
               ENDSWITCH
```

```
        CASE retval = "Del"   :            ; Delete existing record
             SWITCH
               CASE TABLE() = "Lod" :
                  KillRec()
                  LOOP
             ENDSWITCH
        CASE retval = "PgUp"  :
             SWITCH
               CASE TABLE() = "Lod" : SKIP -1 LOOP
             ENDSWITCH
        CASE retval = "PgDn"  :
             SWITCH
               CASE TABLE() = "Lod" :SKIP 1 LOOP
             ENDSWITCH
        CASE retval = -105    : QUITLOOP
        OTHERWISE             : BEEP
       ENDSWITCH
     ENDWHILE
     IF retval = -105 THEN
       QUITLOOP
     ENDIF
   ENDSCAN
   IF anyrcdflag = 1 THEN                  ; If no records matched sitenum
     MESSAGE "No records for Site Number ",sitenum,"."
   ELSE
     MESSAGE "Editing complete"
   ENDIF
   SLEEP 3000
   DO_IT!
  ENDIF
ENDPROC

WriteLib "SiteProg" EditGenByNum
Release Procs EditGenByNum
```

```
; SMS2Edit.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
; This script contains the procedures for editing records in a multitable form
; for the following two tables:
;         Strip - Master
;         Trees - One-to-Many relationship
;
; Although new tree records may be entered, no provision is made for error or
; validity checking (see SMS#VALD.SC and SMS#VLCK.SC).

PROC GetStrpNum()
 PRIVATE sitenum
  CLEAR
  sitenum = 0

  @ 5,0 ?? "Enter Site Number or Press ENTER (\17\217) and select Site to edit: "
  STYLE REVERSE
  ACCEPT "S" Min 1 Max 999999 TO sitenum
  STYLE
  IF retval = False THEN
    RETURN False
  ELSE
    IF ISBLANK(sitenum) THEN
      MOVETO "Strip"
      WHILE True
        WAIT TABLE
          PROMPT "Move cursor to Site to select",
                 "[F2]-Select    [Esc]-Cancel"
          UNTIL "F2","Esc","DOS","DOSBIG","ZOOM","ZOOMNEXT"
        SWITCH
          CASE retval = "F2"  : sitenum = [Site Number] QUITLOOP
          CASE retval = "Esc" : sitenum = False         QUITLOOP
          OTHERWISE           : BEEP
        ENDSWITCH
      ENDWHILE
    ENDIF
  ENDIF
  RETURN sitenum
ENDPROC
```

```
WriteLib "SiteProg" GetStrpNum
Release Procs GetStrpNum

PROC EditStrpByNum()
 PRIVATE sitenum, anyrcdflag
;
; Private variables:
;   sitenum    - site number to edit
;   anyrcdflag - flag to indicate if any records where found in scan

  VIEW "Strip"
  sitenum = GetStrpNum()                    ; Get number of site to edit
  CLEAR
  IF sitenum = False THEN                   ; If no site selected
    MESSAGE "No RMZ/UMA site selected"
    SLEEP 3000
  ELSE
    MESSAGE "Selecting records for Site number ",sitenum,", please wait..."
    COEDIT "Strip"
    MENU (Image) (Pickform) (F)
    anyrcdflag = 1
    SCAN FOR [Site Number] = sitenum
      anyrcdflag = 0                        ; Set flag to indicate at least
      WHILE True                            ; one record exists
        WAIT RECORD
          PROMPT "Edit record  [Alt][F2]-Save/Exit  [F3]-Next Table  [F9]-Insert Record",
                 "[PgDn]-Next Record  [PgUp]-Previous Record  [Del]-Delete Record"
          UNTIL "F3","PgDn","PgUp",-105,"DOS","DOSBIG","ZOOM","ZOOMNEXT","F9","Del"

        SWITCH
          CASE retval = "F3"    : DOWNIMAGE LOOP
          CASE retval = "F9"    :
               SWITCH
                 CASE TABLE() = "Trees" :
                    MakeRec()
                    LOOP
               ENDSWITCH
          CASE retval = "Del"   :
               SWITCH
                 CASE TABLE() = "Trees" :
                    KillRec()
                    LOOP
               ENDSWITCH
          CASE retval = "PgUp"  :
               SWITCH
                 CASE TABLE() = "Trees" : SKIP -1 LOOP
               ENDSWITCH
          CASE retval = "PgDn"  :
               SWITCH
                 CASE TABLE() = "Trees" :SKIP 1 LOOP
               ENDSWITCH
          CASE retval = -105    : QUITLOOP
          OTHERWISE             : BEEP
        ENDSWITCH
      ENDWHILE
      IF retval = -105 THEN
        QUITLOOP
      ENDIF
    ENDSCAN
    IF anyrcdflag = 1 THEN                  ; If not records matched sitenum
      MESSAGE "No records for Site Number ",sitenum,"."
    ELSE
      MESSAGE "Editing complete"
    ENDIF
    SLEEP 3000
    DO_IT!
  ENDIF
ENDPROC

WriteLib "SiteProg" EditStrpByNum
Release Procs EditStrpByNum
```

```
; SMS3Edit.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
; This script contains the procedures for editing data in a multitable form
; for the following two tables:
;         Subplot - Master table
;         Dom_S&H - Many-to-One relationship
;
; Although new Dom_S&H records may be entered, no provision is made for error
; or validity checking (see SMS#VALD.SC and SMS#VLCK.SC)

PROC GetSplotNum()
 PRIVATE sitenum
  CLEAR
  sitenum = 0

  @ 5,0 ?? "Enter Site Number of Press ENTER (\17\217) and select Site to edit: "
  STYLE REVERSE
  ACCEPT "S" Min 1 Max 999999 TO sitenum
  STYLE
  IF retval = False THEN
    RETURN False
  ELSE
    IF ISBLANK(sitenum) THEN
      MOVETO "Subplot"
      WHILE True
        WAIT TABLE
          PROMPT "Move cursor to Site to select",
                 "[F2]-Select    [Esc]-Cancel"
          UNTIL "F2","Esc","DOS","DOSBIG","ZOOM","ZOOMNEXT"
        SWITCH
          CASE retval = "F2"  : sitenum = [Site Number] QUITLOOP
          CASE retval = "Esc" : sitenum = False         QUITLOOP
          OTHERWISE           : BEEP
        ENDSWITCH
      ENDWHILE
    ENDIF
  ENDIF
  RETURN sitenum
ENDPROC

WriteLib "SiteProg" GetSplotNum
Release Procs GetSplotNum

PROC EditSplotByNum()
 PRIVATE sitenum, anyrcdflag
;
; Private variables:
;   sitenum    - site number to edit
;   anyrcdflag - flag to indicate if any records where found in scan

  VIEW "Subplot"
  sitenum = GetSplotNum()                    ; Get number of site to edit
  CLEAR
  IF sitenum = False THEN                    ; If no site selected
    MESSAGE "No RMZ/UMA site selected"
    SLEEP 3000
  ELSE
    MESSAGE "Selecting records for Site number ",sitenum,", please wait..."
    COEDIT "Subplot"
    MENU (Image) (Pickform) (F)
    anyrcdflag = 1
    SCAN FOR [Site Number] = sitenum
      anyrcdflag = 0                         ; Set flag to indicate at least
      WHILE True                             ; one record exists
        WAIT RECORD
          PROMPT "Edit record  [Alt][F2]-Save/Exit  [F3]-Next Table  [F9]-Insert Record",
                 "[PgDn]-Next Record  [PgUp]-Previous Record  [Del]-Delete Record"
          UNTIL "F3","PgDn","PgUp",-105,"DOS","DOSBIG","ZOOM","ZOOMNEXT","F9","Del"

        SWITCH
          CASE retval = "F3"    : DOWNIMAGE LOOP
          CASE retval = "F9"    :
               SWITCH
                 CASE TABLE() = "Dom_S&H" :
                    MakeRec()
                    LOOP
               ENDSWITCH
```

```
          CASE retval = "Del"    :
               SWITCH
                 CASE TABLE() = "Dom_S&H" :
                    KillRec()
                    LOOP
               ENDSWITCH
          CASE retval = "PgUp"   :
               SWITCH
                 CASE TABLE() = "Dom_S&H" : SKIP -1 LOOP
               ENDSWITCH
          CASE retval = "PgDn"   :
               SWITCH
                 CASE TABLE() = "Dom_S&H" :SKIP 1 LOOP
               ENDSWITCH
          CASE retval = -105     : QUITLOOP
          OTHERWISE              : BEEP
        ENDSWITCH
      ENDWHILE
      IF retval = -105 THEN
        QUITLOOP
      ENDIF
    ENDSCAN
    IF anyrcdflag = 1 THEN                    ;  If not records matched sitenum
      MESSAGE "No records for Site Number ",sitenum,"."
    ELSE
      MESSAGE "Editing complete"
    ENDIF
    SLEEP 3000
    DO_IT!
  ENDIF
ENDPROC

WriteLib "SiteProg" EditSplotByNum
Release Procs EditSplotByNum
```

```
; Veg1Edit.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
; This script contains the procedures for editing records in a custom form
; for the following table:
;         Veg_Lib1 - Master
; No provision is made for error or validity checking.

PROC GetV1CodeName()
 PRIVATE codename
  CLEAR
  codename = ""

  @ 5,0 ?? "Enter Vegetation Code or Press ENTER (\17\217) and select Code to edit: "
  STYLE REVERSE
  ACCEPT "A5" TO codename
  STYLE
  IF retval = False THEN
    RETURN False
  ELSE
    IF ISBLANK(codename) THEN
      MOVETO "Veg_lib1"
      WHILE True
        WAIT TABLE
          PROMPT "Move cursor to Vegetation Code to select",
                 "[F2]-Select    [Esc]-Cancel"
          UNTIL "F2","Esc","DOS","DOSBIG","ZOOM","ZOOMNEXT"
        SWITCH
          CASE retval = "F2"  : codename = [Code Name] QUITLOOP
          CASE retval = "Esc" : codename = False         QUITLOOP
          OTHERWISE           : BEEP
        ENDSWITCH
      ENDWHILE
    ENDIF
  ENDIF
  RETURN codename
ENDPROC

WriteLib "SiteProg" GetV1CodeName
Release Procs GetV1CodeName
```

```
PROC EditV1ByName()
 PRIVATE codename, anyrcdflag
;
; Private variables:
;   codename    - code name to edit
;   anyrcdflag - flag to indicate if any records where found in scan

  VIEW "Veg_lib1"
  codename = GetV1CodeName()                    ; Get veg code to edit
  CLEAR
  IF codename = False THEN                      ; If no code selected
    MESSAGE "No Vegetation code selected"
    SLEEP 3000
  ELSE
    MESSAGE "Selecting record for Vegetation Code ",codename,", please wait..."
    COEDIT "Veg_lib1"
    MENU (Image) (Pickform) (F)
    anyrcdflag = 1
    SCAN FOR [Code Name] = codename
      anyrcdflag = 0                            ; Set flag to indicate at least
      WHILE True                                ; one record exists
        WAIT RECORD
          PROMPT "Edit record  [Alt][F2]-Save/Exit  [F9]-Insert Record",
                 "[PgDn]-Next Record  [PgUp]-Previous Record  [Del]-Delete Record"
          UNTIL "F3","PgDn","PgUp",-105,"DOS","DOSBIG","ZOOM","ZOOMNEXT","F9","Del"

        SWITCH
          CASE retval = "F9"   :                ; Create new record.
               MakeRec()
               LOOP
          CASE retval = "Del"  :                ; Delete record.
               KillRec()
               LOOP
          CASE retval = "PgUp" :                ; Previous record.
               SKIP -1
               LOOP
          CASE retval = "PgDn" :                ; Next record.
               SKIP 1
               LOOP
          CASE retval = -105   : QUITLOOP
          OTHERWISE            : BEEP
        ENDSWITCH
      ENDWHILE
      IF retval = -105 THEN
        QUITLOOP
      ENDIF
    ENDSCAN
    IF anyrcdflag = 1 THEN                      ; If no records matched codename
      MESSAGE "No records for Vegetation Code ",codename,"."
    ELSE
      MESSAGE "Editing complete"
    ENDIF
    SLEEP 3000
    DO_IT!
  ENDIF
ENDPROC

WriteLib "SiteProg" EditV1ByName
Release Procs EditV1ByName
```

```
; Veg2Edit.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
; This script contains the procedures for editing records in a custom form
; for the following table:
;         Veg_Lib2 - Master
; No provision is made for error or validity checking.

PROC GetV2CodeNum()
 PRIVATE codenum
  CLEAR
  codenum = ""

  @ 5,0 ?? "Enter Tree Code Number or Press ENTER (\17\217) and select Code to edit: "
  STYLE REVERSE
```

```
  ACCEPT "A5" TO codenum
  STYLE
  IF retval = False THEN
    RETURN False
  ELSE
    IF ISBLANK(codenum) THEN
      MOVETO "Veg_lib2"
      WHILE True
        WAIT TABLE
          PROMPT "Move cursor to Tree Code to select",
                 "[F2]-Select    [Esc]-Cancel"
          UNTIL "F2","Esc","DOS","DOSBIG","ZOOM","ZOOMNEXT"
        SWITCH
          CASE retval = "F2"  : codenum = [Code Number] QUITLOOP
          CASE retval = "Esc" : codenum = False         QUITLOOP
          OTHERWISE           : BEEP
        ENDSWITCH
      ENDWHILE
    ENDIF
  ENDIF
  RETURN codenum
ENDPROC

WriteLib "SiteProg" GetV2CodeNum
Release Procs GetV2CodeNum

PROC EditV2ByNum()
 PRIVATE codenum, anyrcdflag
;
; Private variables:
;   codenum    - code number to edit
;   anyrcdflag - flag to indicate if any records where found in scan

  VIEW "Veg_lib2"
  codenum = GetV2CodeNum()                          ; Get tree code to edit
  CLEAR
  IF codenum = False THEN                           ; If no code selected
    MESSAGE "No Tree code selected"
    SLEEP 3000
  ELSE
    MESSAGE "Selecting record for Tree Code ",codenum,", please wait..."
    COEDIT "Veg_lib2"
    MENU (Image) (Pickform) (F)
    anyrcdflag = 1
    SCAN FOR [Code Number] = codenum
      anyrcdflag = 0                                ; Set flag to indicate at least
      WHILE True                                    ; one record exists
        WAIT RECORD
          PROMPT "Edit record  [Alt][F2]-Save/Exit  [F9]-Insert Record",
                 "[PgDn]-Next Record  [PgUp]-Previous Record  [Del]-Delete Record"
          UNTIL "F3","PgDn","PgUp",-105,"DOS","DOSBIG","ZOOM","ZOOMNEXT","F9","Del"

        SWITCH
          CASE retval = "F9"   :                    ; Create new record.
               MakeRec()
               LOOP
          CASE retval = "Del"  :                    ; Delete record.
               KillRec()
               LOOP
          CASE retval = "PgUp" :                    ; Previous record.
               SKIP -1
               LOOP
          CASE retval = "PgDn" :                    ; Next record.
               SKIP 1
               LOOP
          CASE retval = -105   : QUITLOOP
          OTHERWISE            : BEEP
        ENDSWITCH
      ENDWHILE
      IF retval = -105 THEN
        QUITLOOP
      ENDIF
    ENDSCAN
    IF anyrcdflag = 1 THEN                          ; If no records matched codename
      MESSAGE "No records for Tree Code Number ",codenum,"."
    ELSE
      MESSAGE "Editing complete"
    ENDIF
    SLEEP 3000
    DO_IT!
  ENDIF
ENDPROC

WriteLib "SiteProg" EditV2ByNum
Release Procs EditV2ByNum
```

```
; SiteView.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
PROC GetTbl()
  Cursor Off
  ViewTblsMenu()
  If retval <> "None" Then
    ViewTbls()
  Else
    Message "No tables available or selected, View request terminated!"
    Sleep 3000
  EndIf
  ClearAll
  Clear
EndProc

WriteLib "SiteProg" GetTbl
Release Procs GetTbl

PROC ViewTbls()
WHILE True
  numofimages = NIMAGES()                    ; Save the number of images in a
                                             ; variable to prevent repeated
                                             ; calls to the NIMAGES() function.

  IF numofimages = 1 THEN                    ; Use two different WAIT TABLE
                                             ; statements depending on the
                                             ; number of images on the workspace.
     WAIT TABLE
       PROMPT "Viewing Single Table   [F2]-Exit",
              "[F7]-Form/Table View Toggle"
       UNTIL "F7","F2","F10","DOS","DOSBIG","ZOOM","ZOOMNEXT"
  ELSE
    WAIT TABLE
      PROMPT "Viewing Table " + STRVAL(IMAGENO())  + " of " +
             STRVAL(numofimages),
             "[F2]-Exit   [F3]-Next Table   [F4]-Previous Table   " +
             "[F7]-Form/Table View Toggle"
      UNTIL "F3","F4","F10","T","t","F7","F2","DOS","DOSBIG","ZOOM","ZOOMNEXT"
  ENDIF
  SWITCH
    CASE retval = "F3"       : UPIMAGE          LOOP
    CASE retval = "F4"       : DOWNIMAGE        LOOP
    CASE retval = "F7"       : FORMKEY          LOOP
    CASE retval = "F2"   : QUITLOOP
    OTHERWISE            : BEEP LOOP
  ENDSWITCH
ENDWHILE
CLEARALL
CLEAR
RETURN
ENDPROC

WriteLib "SiteProg" ViewTbls
Release Procs ViewTbls


;
PROC ViewTblsMenu()
 PRIVATE tblname
 ; PLAY "Smvsplas"
  Splash2()

  ShowMenu
    "Gen"    : "View General/LOD table",
    "Strp"   : "View Strip/Tree table",
    "Splot"  : "View Subplot/Dom S&H table",
    "Veg1"   : "View Shrub/Herb library table",
    "Veg2"   : "View Tree library table",
    "Return" : "Return to Main Menu"
  TO selview

SWITCH
     case selview = "Gen" :
          tblname = "General"
     case selview = "Strp" :
          tblname = "Strip"
     case selview = "Splot" :
```

```
          tblname = "Subplot"
     case selview = "Veg1" :
          tblname = "Veg_lib1"
     case selview = "Veg2" :
          tblname = "Veg_lib1"
     case selview = "Return" :
          tblname = "None"
     OtherWise :
          BEEP
          tblname = "None"
 ENDSWITCH


  IF tblname = "None" THEN                    ; If there are no tables
    RETURN "None"                             ; selected, return none,
  ELSE                                        ;
    MESSAGE "Loading ",tblname                ; Otherwise, view the table and
    VIEW tblname                              ; return the table name.
    RETURN tblname
  ENDIF
ENDPROC

WriteLib "SiteProg" ViewTblsMenu
Release Procs ViewTblsMenu
```

```
; ReptMenu.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723

Proc ReptMenu()
     While True
          Autolib = "SiteProg"
          R_Splash1()

          ShowMenu
                "Gen" : "Select and print RMZ/UMA General Site data",
                "LOD" : "Select and print RMZ/UMA LOD data",
              "Strip" : "Select and pront RMZ/UMA Strip data",
              "Trees" : "Select and print RMZ/UMA Tree data",
            "Subplot" : "Select and print RMZ/UMA Subplot data",
            "Dom_S&H" : "Select and print RMZ/UMA Dominant Shrub & Herb data",
              "Leave" : "Return to the Main Menu"
          to rsel

          Switch
               case rsel = "Gen" :
                    Autolib = "SiteProg"
                    R_Splash2()
                    ShowMenu
                          "Gen1" : "Print Eastside UMA Sites by UMA type",
                          "Gen2" : "Print Westside UMA Sites by UMA type",
                          "Gen3" : "Print Eastside RMZ Sites by Water type & Substrate",
                          "Gen4" : "Print Westside RMZ Sites by Water type & Substrate",
                       "Return" : "Go back to the Report Menu"
                    To repsel
                    Switch                                    ; Query     Table    Rep#
                         Case repsel = "Gen1" :               ; GenQ1     GenF1     1
                              Autolib = "SiteProg"
                              GenRept1()                      ; Execute the query.
                              tablename = "Genf1"             ; Set table name for report.
                              reptnum = 1                     ; Set report number.
                              HardCopy()                      ; Print the report.
                              MENU (Tools) (More) (Empty) (Genf1) (OK)
                              ClearAll                        ; Unload the files.

                         Case repsel = "Gen2" :               ; GenQ2     GenF2     1
                              Autolib = "SiteProg"
                              GenRept2()
                              tablename = "Genf2"
                              reptnum = 1
                              HardCopy()
                              MENU (Tools) (More) (Empty) (Genf2) (OK)
                              ClearAll

                         Case repsel = "Gen3" :               ; GenQ3     GenF3     1
                              Autolib = "SiteProg"
                              GenRept3()
                              tablename = "Genf3"
                              reptnum = 1
                              HardCopy()
                              MENU (Tools) (More) (Empty) (Genf3) (OK)
                              ClearAll

                         Case repsel = "Gen4" :               ; GenQ4     GenF4     1
                              Autolib = "SiteProg"
                              GenRept4()
                              tablename = "Genf4"
                              reptnum = 1
                              HardCopy()
                              MENU (Tools) (More) (Empty) (Genf4) (OK)
                              ClearAll

                         Otherwise: Loop
                    EndSwitch

               case rsel = "LOD" :
                    Autolib = "SiteProg"
                    R_Splash3()
                    ShowMenu
                          "LOD1" : "Print Eastside RMZ Site LOD averages",
                          "LOD2" : "Print Westside RMZ Site LOD averages",
                       "Return" : "Go back to the Report Menu"
                    To repsel
                    Switch                                    ; Query     Table    Rep#
```

```
                    Case repsel = "LOD1" :              ; LODQ1     LODF1      1
                         Autolib = "SiteProg"
                         LODRept1()
                         tablename = "Lodf1"
                         reptnum = 1
                         HardCopy()
                         MENU {Tools} {More} {Empty} {Lodf1} {OK}
                         ClearAll

                    Case repsel = "LOD2" :              ; LODQ2     LODF2      1
                         Autolib = "SiteProg"
                         LODRept2()
                         tablename = "Lodf2"
                         reptnum = 1
                         HardCopy()
                         MENU {Tools} {More} {Empty} {Lodf2} {OK}
                         ClearAll

                    Otherwise: Loop
               EndSwitch

          case rsel = "Strip" :
               Autolib = "SiteProg"
               R_Splash4()
               ShowMenu
                       "Strip1" : "Print Eastside UMA averages by type",
                       "Strip2" : "Print Westside UMA averages by type",
                       "Strip3" : "Print Eastside RMZ averages by type",
                       "Strip4" : "Print Westside RMZ averages by type",
                       "Return" : "Go back to the Report Menu"
               To repsel
               Switch
                    Case repsel = "Strip1" :            ; Query     Table    Rep#
                         Autolib = "SiteProg"           ; StripQ1   StripF1    1
                         StripRept1()
                         tablename = "Stripf1"
                         reptnum = 1
                         HardCopy()
                         MENU {Tools} {More} {Empty} {Stripf1} {OK}
                         ClearAll

                    Case repsel = "Strip2" :            ; StripQ2   StripF2    1
                         Autolib = "SiteProg"
                         StripRept2()
                         tablename = "Stripf2"
                         reptnum = 1
                         HardCopy()
                         MENU {Tools} {More} {Empty} {Stripf2} {OK}
                         ClearAll

                    Case repsel = "Strip3" :            ; StripQ3   StripF3    1
                         Autolib = "SiteProg"
                         StripRept3()
                         tablename = "Stripf3"
                         reptnum = 1
                         HardCopy()
                         MENU {Tools} {More} {Empty} {Stripf3} {OK}
                         ClearAll

                    Case repsel = "Strip4" :            ; StripQ4   StripF4    1
                         Autolib = "SiteProg"
                         StripRept4()
                         tablename = "Stripf4"
                         reptnum = 1
                         HardCopy()
                         MENU {Tools} {More} {Empty} {Stripf4} {OK}
                         ClearAll

                    Otherwise: Loop
               EndSwitch

          case rsel = "Trees" :
               Autolib = "SiteProg"
               R_Splash5()
               ShowMenu
                       "Tree1" : "Print live tree count by Side, Tree Type and Name",
                       "Tree2" : "Print live tree count by Side, Size Class, Type and Name",
                       "Tree3" : "Print Eastside UMA live tree count by UMA type, Tree Type and Name",
                       "Tree4" : "Print Westside UMA live tree count by UMA type, Tree Type and Name",
                       "Tree5" : "Print Eastside RMZ live tree count by Water type, Substrate, Tree
Type and Name",
                       "Tree6" : "Print Westside RMZ live tree count by Water type, Substrate, Tree
Type and Name",
                       "Tree7" : "Print blowdowns, snags and stumps by Side and Type",
                      "Return" : "Go back to the Report Menu"
```

```
     To repsel
     Switch                                        ; Query     Table    Rep#
          Case repsel = "Tree1" :                  ; TreeQ1    TreeF1     1
               Autolib = "SiteProg"
               TreeRept1()
               tablename = "Treef1"
               reptnum = 1
               HardCopy()
               MENU (Tools) (More) (Empty) (Treef1) (OK)
               ClearAll

          Case repsel = "Tree2" :                  ; TreeQ2    TreeF2     1
               Autolib = "SiteProg"
               TreeRept2()
               tablename = "Treef2"
               reptnum = 1
               HardCopy()
               MENU (Tools) (More) (Empty) (Treef2) (OK)
               ClearAll

          Case repsel = "Tree3" :                  ; TreeQ3    TreeF3     1
               Autolib = "SiteProg"
               TreeRept3()
               tablename = "Treef3"
               reptnum = 1
               HardCopy()
               MENU (Tools) (More) (Empty) (Treef3) (OK)
               ClearAll

          Case repsel = "Tree4" :                  ; TreeQ4    TreeF4     1
               Autolib = "SiteProg"
               TreeRept4()
               tablename = "Treef4"
               reptnum = 1
               HardCopy()
               MENU (Tools) (More) (Empty) (Treef4) (OK)
               ClearAll

          Case repsel = "Tree5" :                  ; TreeQ5    TreeF5     1
               Autolib = "SiteProg"
               TreeRept5()
               tablename = "Treef5"
               reptnum = 1
               HardCopy()
               MENU (Tools) (More) (Empty) (Treef5) (OK)
               ClearAll

          Case repsel = "Tree6" :                  ; TreeQ6    TreeF6     1
               Autolib = "SiteProg"
               TreeRept6()
               tablename = "Treef6"
               reptnum = 1
               HardCopy()
               MENU (Tools) (More) (Empty) (Treef6) (OK)
               ClearAll

          Case repsel = "Tree7" :                  ; TreeQ7    TreeF7     1
               Autolib = "SiteProg"
               TreeRept7()
               tablename = "Treef7"
               reptnum = 1
               HardCopy()
               MENU (Tools) (More) (Empty) (Treef7) (OK)
               ClearAll

          Otherwise: Loop
     EndSwitch

case rsel = "Subplot" :
     Autolib = "SiteProg"
     R_Splash6()
     ShowMenu
            "Subplot1" : "Print Eastside UMA averages by UMA type",
            "Subplot2" : "Print Westside UMA averages by UMA type",
            "Subplot3" : "Print Eastside RMZ averages by Water Type and Substrate",
            "Subplot4" : "Print Westside RMZ averages by Water Type and Substrate",
              "Return" : "Go back to the Report Menu"
     To repsel
     Switch                                        ; Query     Table    Rep#
          Case repsel = "Subplot1" :               ;SplotQ1    SplotF1    1
               Autolib = "SiteProg"
               SubplotRept1()
               tablename = "Splotf1"
               reptnum = 1
               HardCopy()
```

```
                    MENU (Tools) (More) (Empty) (Splotf1) (OK)
                    ClearAll

               Case repsel = "Subplot2" :          ;SplotQ2    SplotF2    1
                    Autolib = "SiteProg"
                    SubplotRept2()
                    tablename = "Splotf2"
                    reptnum = 1
                    HardCopy()
                    MENU (Tools) (More) (Empty) (Splotf2) (OK)
                    ClearAll

               Case repsel = "Subplot3" :          ;SplotQ3    SplotF3    1
                    Autolib = "SiteProg"
                    SubplotRept3()
                    tablename = "Splotf3"
                    reptnum = 1
                    HardCopy()
                    MENU (Tools) (More) (Empty) (Splotf3) (OK)
                    ClearAll

               Case repsel = "Subplot4" :          ;SplotQ3    SplotF4    1
                    Autolib = "SiteProg"
                    SubplotRept4()
                    tablename = "Splotf4"
                    reptnum = 1
                    HardCopy()
                    MENU (Tools) (More) (Empty) (Splotf4) (OK)
                    ClearAll

               Otherwise: Loop
          EndSwitch

     case rsel = "Dom S&H" :
          Autolib = "SiteProg"
          R_Splash7()
          ShowMenu
                 "DomS&H1" : "Print Eastside UMA dominant herb & shrub midpoint averages by
name",
                 "DomS&H2" : "Print Westside UMA dominant herb & shrub midpoint averages by
name",
                 "DomS&H3" : "Print Eastside RMZ dominant herb & shrub midpoint averages by
name",
                 "DomS&H4" : "Print Westside RMZ dominant herb & shrub midpoint averages by
name",
                  "Return" : "Go back to the Report Menu"
          To repsel
          Switch                                    ; Query     Table    Rep#
               Case repsel = "DomS&H1" :            ; DomshQ1   DomshF1    1
                    Autolib = "SiteProg"
                    DomSHRept1()
                    tablename = "Domshf1"
                    reptnum = 1
                    HardCopy()
                    MENU (Tools) (More) (Empty) (Domshf1) (OK)
                    ClearAll

               Case repsel = "DomS&H2" :            ; DomshQ2   DomshF2    1
                    Autolib = "SiteProg"
                    DomSHRept2()
                    tablename = "Domshf2"
                    reptnum = 1
                    HardCopy()
                    MENU (Tools) (More) (Empty) (Domshf2) (OK)
                    ClearAll

               Case repsel = "DomS&H3" :            ; DomshQ3   DomshF3    1
                    Autolib = "SiteProg"
                    DomSHRept3()
                    tablename = "Domshf3"
                    reptnum = 1
                    HardCopy()
                    MENU (Tools) (More) (Empty) (Domshf3) (OK)
                    ClearAll

               Case repsel = "DomS&H4" :            ; DomshQ4   DomshF4    1
                    Autolib = "SiteProg"
                    DomSHRept4()
                    tablename = "Domshf4"
                    reptnum = 1
                    HardCopy()
                    MENU (Tools) (More) (Empty) (Domshf4) (OK)
                    ClearAll

               Otherwise: Loop
```

```
                EndSwitch

            case rsel = "Leave" :
                ShowMenu
                    "Leave": "Go back to the Main Menu",
                   "Return": "Return to the Report Menu"
                to rsubsel

                Switch
                    case rsubsel = "Leave":
                        QuitLoop
                    Otherwise: Loop
                EndSwitch
            OtherWise:Loop

        EndSwitch

    EndWhile
EndProc

WriteLib "SiteProg" ReptMenu
Release Procs ReptMenu
```

```
; ReptQury.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723

; * This Section contains the queries and file handling code for selecting
; * data and generating reports.

; ***************************************************************************
;                          General Table Queries
; ***************************************************************************

Proc GenRept1()

Query                                   ; Load the Query (GenQ1)

 General | Site Number | Site Type | East/West |      UMA Type
         | Check       | U         | Check E   | Check B OR FW OR UF

 General | FPA Number | Owner Code | Town/Range/Section | Stream Name
         | Check      | Check      | Check              | Check

 General | FPA Harvest Unit Area | FPA UMA Area | UMA Length Measured
         | Check                 | Check        | Check

 General | Site Area Measured
         | Check

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Genf1)

EndProc
Writelib "SiteProg" GenRept1
Release Procs GenRept1

; ---------------------------------------------------------------------------

Proc GenRept2()

Query

 General | Site Number | Site Type | East/West |      UMA Type
         | Check       | U         | Check W   | Check B OR FW OR UF
```

```
          |              |            |           |                  |
 General  | FPA Number   | Owner Code | Town/Range/Section | Stream Name |
          | Check        | Check      | Check              | Check       |
          |              |            |                    |             |

 General  | FPA Harvest Unit Area | FPA UMA Area | UMA Length Measured |
          | Check                 | Check        | Check               |
          |                       |              |                     |

 General  | Site Area Measured |
          | Check              |
          |                    |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU {Tools} {More} {Add} {Answer} {Genf2}

EndProc
Writelib "SiteProg" GenRept2
Release Procs GenRept2

; -----------------------------------------------------------------------

Proc GenRept3()

Query

 General  | Site Number | Site Type | Water Type | Substrate | East/West |
          | Check       | L OR R    | Check      | Check     | Check E   |
          |             |           |            |           |           |

 General  | FPA Number | Owner Code | Town/Range/Section |
          | Check      | Check      | Check              |
          |            |            |                    |

 General  | Stream Name | FPA Harvest Unit Area |
          | Check       | Check                 |
          |             |                       |

 General  | Site Area Measured |
          | Check              |
          |                    |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU {Tools} {More} {Add} {Answer} {Genf3}

EndProc
Writelib "SiteProg" GenRept3
Release Procs GenRept3

; -----------------------------------------------------------------------

Proc GenRept4()

Query

 General  | Site Number | Site Type | Water Type | Substrate | East/West |
          | Check       | L OR R    | Check      | Check     | Check W   |
          |             |           |            |           |           |

 General  | FPA Number | Owner Code | Town/Range/Section |
          | Check      | Check      | Check              |
          |            |            |                    |

 General  | Stream Name | FPA Harvest Unit Area |
          | Check       | Check                 |
          |             |                       |
```

```
        |              |                        |

 General | Site Area Measured |
         | Check              |
         |                    |
         |                    |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Genf4)

EndProc
Writelib "SiteProg" GenRept4
Release Procs GenRept4

; ***************************************************************************
;                              LOD Table Queries
; ***************************************************************************

Proc LODRept1()

Query

 Lod | Site Type | Water Type | Substrate | East/West |
     | L or R    | Check      | Check     | E         |
     |           |            |           |           |

 Lod | Vegetation Type |              Length Measured                |
     | Check           | calc average as Avg Length Out (Feet)       |
     |                 |                                             |

 Lod |                  Diameter                    |
     | calc average as Avg Diameter (Inches)        |
     |                                              |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Lodf1)

EndProc
Writelib "SiteProg" LODRept1
Release Procs LODRept1

; ---------------------------------------------------------------------------
Proc LODRept2()

Query

 Lod | Site Type | Water Type | Substrate | East/West |
     | L or R    | Check      | Check     | W         |
     |           |            |           |           |

 Lod | Vegetation Type |              Length Measured                |
     | Check           | calc average as Avg Length Out (Feet)       |
     |                 |                                             |

 Lod |                  Diameter                    |
     | calc average as Avg Diameter (Inches)        |
     |                                              |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Lodf2)

EndProc
Writelib "SiteProg" LODRept2
Release Procs LODRept2

; ***************************************************************************
;                              Strip Table Queries
```

```
; ***************************************************************************

Proc StripRept1()
Query

 Strip | Site Type | East/West |       UMA Type
       | U         | Check E   | Check B OR FW OR UF

 Strip |       Stream Canopy       |          Stream Width
       | calc average as Avg Canopy | calc average as Avg Stream Width

 Strip |          Stream Depth          |          Gradient
       | calc average as Avg Stream Depth | calc average as Avg Gradient

 Strip |          Site Width          |          Slope
       | calc average as Avg RZ Width | calc average as Avg Slope

 Strip |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Stripf1)

EndProc
Writelib "SiteProg" StripRept1
Release Procs StripRept1

; ---------------------------------------------------------------------------
Proc StripRept2()

Query

 Strip | Site Type | East/West |       UMA Type
       | U         | Check W   | Check B OR FW OR UF

 Strip |       Stream Canopy       |          Stream Width
       | calc average as Avg Canopy | calc average as Avg Stream Width

 Strip |          Stream Depth          |          Gradient
       | calc average as Avg Stream Depth | calc average as Avg Gradient

 Strip |          Site Width          |          Slope
       | calc average as Avg RZ Width | calc average as Avg Slope

 Strip |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Stripf2)

EndProc
Writelib "SiteProg" StripRept2
Release Procs StripRept2

; ---------------------------------------------------------------------------
Proc StripRept3()
```

```
Query
 Strip | Site Type | Water Type | Substrate | East/West |
       | L or R   | Check      | Check     | E         |

 Strip | Stream Canopy                | Stream Width
       | calc average as Avg Canopy   | calc average as Avg Stream Width

 Strip | Stream Depth                 | Gradient
       | calc average as Avg Stream Depth | calc average as Avg Gradient

 Strip | Site Width                   | Slope
       | calc average as Avg RZ Width | calc average as Avg Slope

 Strip |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Stripf3)

EndProc
Writelib "SiteProg" StripRept3
Release Procs StripRept3

; ------------------------------------------------------------------------
Proc StripRept4()

Query
 Strip | Site Type | Water Type | Substrate | East/West |
       | L or R   | Check      | Check     | W         |

 Strip | Stream Canopy                | Stream Width
       | calc average as Avg Canopy   | calc average as Avg Stream Width

 Strip | Stream Depth                 | Gradient
       | calc average as Avg Stream Depth | calc average as Avg Gradient

 Strip | Site Width                   | Slope
       | calc average as Avg RZ Width | calc average as Avg Slope

 Strip |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Stripf4)

EndProc
Writelib "SiteProg" StripRept4
Release Procs StripRept4

; ****************************************************************************
;                              Trees Table Queries
; ****************************************************************************

Proc TreeRept1()
```

```
Query

 Trees | East/West      | Tree Class  |
       | Check E or W   | 1 or 3 or 4 |
       |                |             |

 Trees | Vegetation Type | Common Name | Tree Count
       | Check           | Check       | calc sum as Total Trees
       |                 |             |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Treef1)

EndProc
Writelib "SiteProg" TreeRept1
Release Procs TreeRept1

; ------------------------------------------------------------------------
Proc TreeRept2()

Query

 Trees | East/West      | Tree Class  | Size Class
       | Check E or W   | 1 or 3 or 4 | Check 1 or 2 or 3 or 4 or 5 or 6 or 7
       |                |             |

 Trees | Vegetation Type | Common Name | Tree Count
       | Check           | Check       | calc sum as Total Trees
       |                 |             |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Treef2)

EndProc
Writelib "SiteProg" TreeRept2
Release Procs TreeRept2

; ------------------------------------------------------------------------
Proc TreeRept3()

Query

 Trees | East/West | UMA Type          | Tree Class
       | Check E   | Check B or FW or UF | 1 or 3 or 4
       |           |                   |

 Trees | Vegetation Type | Common Name | Tree Count
       | Check           | Check       | calc sum as Total Trees
       |                 |             |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Treef3)

EndProc
Writelib "SiteProg" TreeRept3
Release Procs TreeRept3

; ------------------------------------------------------------------------
Proc TreeRept4()

Query

 Trees | East/West | UMA Type          | Tree Class
       | Check W   | Check B or FW or UF | 1 or 3 or 4
       |           |                   |
```

```
 Trees | Vegetation Type | Common Name |       Tree Count
       | Check           | Check       | calc sum as Total Trees
       |                 |             |
```

```
Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Treef4)

EndProc
Writelib "SiteProg" TreeRept4
Release Procs TreeRept4

; ---------------------------------------------------------------------------
Proc TreeRept5()

Query
```

```
 Trees |    Water Type     | Substrate | East/West |
       | Check 1 or 2 or 3 | Check     | E         |
       |                   |           |           |
```

```
 Trees | Tree Class | Vegetation Type | Common Name |       Tree Count
       | 1 or 3 or 4 | Check           | Check       | calc sum as Total Trees
       |             |                 |             |
```

```
Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Treef5)

EndProc
Writelib "SiteProg" TreeRept5
Release Procs TreeRept5

; ---------------------------------------------------------------------------
Proc TreeRept6()

Query
```

```
 Trees | Site Type |    Water Type     | Substrate | East/West |
       | L or R    | Check 1 or 2 or 3 | Check     | W         |
       |           |                   |           |           |
```

```
 Trees | Tree Class | Vegetation Type | Common Name |
       | 1 or 3 or 4 | Check           | Check       |
       |             |                 |             |
```

```
 Trees |       Tree Count
       | calc sum as Total Trees
       |
```

```
Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Treef6)

EndProc
Writelib "SiteProg" TreeRept6
Release Procs TreeRept6

; ---------------------------------------------------------------------------
Proc TreeRept7()

Query
```

```
 Trees |  East/West      |          Tree Class
       | Check E or W    | 2 or 5 or 6 or B or R or S
       |                 |
```

```
 Trees | Vegetation Type | Common Name |       Tree Count        |
```

```
        | Check          | Check        | calc sum as Total Trees |
        |                |              |                         |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU {Tools} {More} {Add} {Answer} {Treef7}

EndProc
Writelib "SiteProg" TreeRept7
Release Procs TreeRept7

; ***************************************************************************
;                          Subplot Table Queries
; ***************************************************************************
Proc SubplotRept1()

Query

 Subplot | East/West | UMA Type          | Subplot Number
         | E         | Check B or UF or FW | calc count all as Total Subplots

 Subplot | Canopy Coverage Value          | Shrub Midpoint
         | calc average as Avg Canopy Cover | calc average as Avg Shrub Cover

 Subplot | Forbs Midpoint                 | Graminoid Midpoint
         | calc average as Avg Forbs Cover | Calc average as Avg Graminoid Cover

 Subplot | DW1 Midpoint                   | DW2 Midpoint
         | calc average as Avg DW1 Cover  | calc average as Avg DW2 Cover

 Subplot | DW3 Midpoint                   | Water Midpoint
         | Calc average as Avg DW3 Cover  | calc average as Avg Water Cover

 Subplot | Rock Midpoint                  | Soil Midpoint
         | calc average as Avg Rock Cover | calc average as Avg Soil Cover

 Subplot | OGC Midpoint
         | Calc average as Avg OGC Cover

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU {Tools} {More} {Add} {Answer} {Splotf1}

EndProc
Writelib "SiteProg" SubplotRept1
Release Procs SubplotRept1

; ---------------------------------------------------------------------------
Proc SubplotRept2()

Query

 Subplot | East/West | UMA Type          | Subplot Number
         | W         | Check B or UF or FW | calc count all as Total Subplots

 Subplot | Canopy Coverage Value          | Shrub Midpoint
         | calc average as Avg Canopy Cover | calc average as Avg Shrub Cover

 Subplot | Forbs Midpoint                 | Graminoid Midpoint
         | calc average as Avg Forbs Cover | Calc average as Avg Graminoid Cover
```

```
Subplot | DW1 Midpoint                    | DW2 Midpoint
        | calc average as Avg DW1 Cover  | calc average as Avg DW2 Cover

Subplot | DW3 Midpoint                    | Water Midpoint
        | Calc average as Avg DW3 Cover  | calc average as Avg Water Cover

Subplot | Rock Midpoint                   | Soil Midpoint
        | calc average as Avg Rock Cover | calc average as Avg Soil Cover

Subplot | OGC Midpoint
        | Calc average as Avg OGC Cover

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Splotf2)

EndProc
Writelib "SiteProg" SubplotRept2
Release Procs SubplotRept2

; ------------------------------------------------------------------------
Proc SubplotRept3()

Query

Subplot | Site Type | Water Type | Substrate | East/West
        | L or R    | Check      | Check     | E

Subplot | Subplot Number                  | Canopy Coverage Value
        | calc count all as Number of Subplots | calc average as Avg Canopy Cover

Subplot | Shrub Midpoint                  | Forbs Midpoint
        | calc average as Avg Shrub Cover | calc average as Avg Forbs Cover

Subplot | Graminoid Midpoint              | DW1 Midpoint
        | Calc average as Avg Graminoid Cover | calc average as Avg DW1 Cover

Subplot | DW2 Midpoint                    | DW3 Midpoint
        | calc average as Avg DW2 Cover  | Calc average as Avg DW3 Cover

Subplot | Water Midpoint                  | Rock Midpoint
        | calc average as Avg Water Cover | calc average as Avg Rock Cover

Subplot | Soil Midpoint                   | OGC Midpoint
        | calc average as Avg Soil Cover | Calc average as Avg OGC Cover

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Splotf3)

EndProc
Writelib "SiteProg" SubplotRept3
Release Procs SubplotRept3
```

```
; ---------------------------------------------------------------------------
Proc SubplotRept4()

Query

 Subplot | Site Type | Water Type | Substrate | East/West |
         | L or R    | Check      | Check     | W         |
         |           |            |           |           |

 Subplot |           Subplot Number           |    Canopy Coverage Value       |
         | calc count all as Number of Subplots | calc average as Avg Canopy Cover |
         |                                    |                                |

 Subplot |         Shrub Midpoint          |         Forbs Midpoint          |
         | calc average as Avg Shrub Cover | calc average as Avg Forbs Cover |
         |                                 |                                 |

 Subplot |         Graminoid Midpoint          |         DW1 Midpoint          |
         | Calc average as Avg Graminoid Cover | calc average as Avg DW1 Cover |
         |                                     |                               |

 Subplot |         DW2 Midpoint          |         DW3 Midpoint          |
         | calc average as Avg DW2 Cover | Calc average as Avg DW3 Cover |
         |                               |                               |

 Subplot |         Water Midpoint          |         Rock Midpoint          |
         | calc average as Avg Water Cover | calc average as Avg Rock Cover |
         |                                 |                                |

 Subplot |         Soil Midpoint          |         OGC Midpoint          |
         | calc average as Avg Soil Cover | Calc average as Avg OGC Cover |
         |                                |                               |

Endquery

Do_It!                                   ; Execute the query.

; Move the data to the correct data file.
MENU {Tools} {More} {Add} {Answer} {Splotf4}

EndProc
Writelib "SiteProg" SubplotRept4
Release Procs SubplotRept4

; ***************************************************************************
;                     Dominant Herb & Shrub Table Queries
; ***************************************************************************
Proc DomSHRept1()

Query

 General | Site Number | Site Type | East/West | UMA Type |
         | _sitenum    | U         | E         | Check    |
         |             |           |           |          |

 General |
         |
         |

 Dom_s&h | Site Number | Class | Vegetation Type | Common Name |
         | _sitenum    | Check | Check           | Check       |
         |             |       |                 |             |

 Dom_s&h |                         Midpoint                          |
         | calc average as Avg Cover, calc count as Number Of Subplots |
         |                                                           |

Endquery

Do_It!                                   ; Execute the query.

; Move the data to the correct data file.
MENU {Tools} {More} {Add} {Answer} {Domshf1}
```

```
EndProc
Writelib "SiteProg" DomSHRept1
Release Procs DomSHRept1

; ------------------------------------------------------------------------
Proc DomSHRept2()

Query

 General | Site Number | Site Type | East/West | UMA Type |
         | _sitenum    | U         | W         | Check    |

 General |

 Dom_s&h | Site Number | Class | Vegetation Type | Common Name |
         | _sitenum    | Check | Check           | Check       |

 Dom_s&h |                          Midpoint
         | calc average as Avg Cover, calc count as Number Of Subplots |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Domshf2)

EndProc
Writelib "SiteProg" DomSHRept2
Release Procs DomSHRept2

; ------------------------------------------------------------------------
Proc DomSHRept3()

Query

 General | Site Number | Site Type | Water Type | Substrate | East/West |
         | _sitenum    | L or R    | Check      | Check     | E         |

 General |

 Dom_s&h | Site Number | Class | Vegetation Type | Common Name |
         | _sitenum    | Check | Check           | Check       |

 Dom_s&h |                          Midpoint
         | calc average as Avg Cover, calc count as Number Of Subplots |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Domshf3)

EndProc
Writelib "SiteProg" DomSHRept3
Release Procs DomSHRept3

; ------------------------------------------------------------------------
Proc DomSHRept4()

Query

 General | Site Number | Site Type | Water Type | Substrate | East/West |
         | _sitenum    | L or R    | Check      | Check     | W         |
```

```
 General |
         |

 Dom_s&h | Site Number | Class   | Vegetation Type | Common Name |
         | _sitenum    | Check   | Check           | Check       |
         |             |         |                 |             |

 Dom_s&h |                              Midpoint                                |
         | calc average as Avg Cover, calc count as Number Of Subplots          |
         |                                                                      |

Endquery

Do_It!                                  ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Domshf4)

EndProc
Writelib "SiteProg" DomSHRept4
Release Procs DomSHRept4


; ***************************************************************************
Proc HardCopy()
MENUCOLOR = 48
While (true)
  ShowMenu
     "Printer": "Send Report to the Printer",
     "Screen" : "Send Report to the screen",
     "Quit"   : "Don't run the Report"

     default "Printer" to sel

     Switch

        case sel = "Printer" :
           if printerstatus() = false then
              CURSOR OFF
              STYLE ATTRIBUTE (MENUCOLOR+128)
              @24,0 Clear EOL ?? format("AC,W80","PRINTER NOT READY ...")
              style ATTRIBUTE MENUCOLOR
              CURSOR NORMAL
              loop
           endif

           STYLE ATTRIBUTE (MENUCOLOR+128)

           @24,0 Clear EOL ?? format("AC,W79","PRINTING REPORT")

           REPORT tablename reptnum

           @24,0 Clear EOL

        case sel = "Screen": Menu (Report)(OutPut) select tablename
                  select reptnum select sel
                  CURSOR OFF
                  style attribute menucolor+128
                  @24,0 Clear EOL ?? format("AC,W80","ONE MOMENT")
                  style attribute menucolor
                  CURSOR NORMAL
        case sel = "Quit"  : quitloop

        OtherWise:beep

     EndSwitch
quitloop
EndWhile

EndProc
Writelib "SiteProg" HardCopy
Release Procs HardCopy
```

```
; SMS1VALD.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
;  This script contains the procs used for the validation rules on each table.
; A separate procedure is used for each table.


;  ****************************************
;  * RqdRulesGen Procedure                *
;  ****************************************
;
;   General Table procedure that checks for the required fields, inserts
;  default values if the field is left blank, and makes necessary comparison
;  between fields in the table for valid entries.  Tests are performed
;  sequentially.  At the first failure, the procedure returns False.  A True
;  is returned if all tests are passed.  The order of the required fields is
;  based on the order they appear on the form.

PROC RqdRulesGen()
  IF FldBlank("Site Number","Site Number") THEN   ; Required Site Number
    RETURN False
  ENDIF
  IF FldBlank("Site Type","Site Type (L, R, or U)") THEN ; Required Site Type
    RETURN False
  ENDIF
  IF FldBlank("East/West","Side (E or W)") THEN   ; Required East/West
    RETURN False
  ENDIF
  RETURN True
ENDPROC

WRITELIB "SiteProg" RqdRulesGen
RELEASE PROCS RqdRulesGen


;  ****************************************
;  * RqdRulesLOD Procedure                *
;  ****************************************
;
;   LOD Table procedure that inserts default values if the field is left
;  blank.

PROC RqdRulesLOD()
  IF FldBlank("Entry Number","Next Sequential Entry #") THEN ; Default Entry Number
    RETURN False
  ENDIF
  IF IsBlank([Total Length]) THEN
    [Total Length] = [Length Measured] + [Length Estimated]
  ENDIF
RETURN True
ENDPROC

WRITELIB "SiteProg" RqdRulesLOD
RELEASE PROCS RqdRulesLOD
```

```
; SMS2VALD.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
;  ****************************************
;  * RqdRulesStrip Procedure              *
;  ****************************************
;
; Strip Table procedure that checks for the required fields. Tests are
; performed sequentially.  At the first failure, the procedure returns False.
; A True is returned if all tests are passed. The order of the required
; fields is based on the order they appear on the form.


PROC RqdRulesStrip()
  IF FldBlank("Site Number","Site Number") THEN
```

```
    RETURN False
  ENDIF
  IF FldBlank("Strip Number","Strip Number") THEN  ; Required Strip Number
    RETURN False
  ENDIF
  RETURN True
ENDPROC

WRITELIB "SiteProg" RqdRulesStrip
RELEASE PROCS RqdRulesStrip


;  ****************************************
;  * RqdRulesTrees Procedure              *
;  ****************************************
;
; Trees Table procedure that checks for the required fields. Tests are
; performed sequentially.  At the first failure, the procedure returns False.
; A True is returned if all tests are passed. The order of the required
; fields is based on the order they appear on the form.


PROC RqdRulesTrees()
  IF FldBlank("Entry Number","Next sequential Entry #") THEN
    RETURN False
  ENDIF
  IF FldBlank("Tree Class","Tree Class") THEN      ; Required Tree Class
    RETURN False
  ENDIF
  IF FldBlank("Size Class","Size Class") THEN      ; Required Size Class
    RETURN False
  ENDIF
  IF FldBlank("Tree Code","Tree Code") THEN        ; Required Tree Code
    RETURN False
  ENDIF
  RETURN True
ENDPROC

WRITELIB "SiteProg" RqdRulesTrees
RELEASE PROCS RqdRulesTrees
```

```
; SITEVALD.SC
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
;  This script contains the procs used for the validation rules on each table.
; A separate procedure is used for each table.


;  ****************************************
;  * RqdRulesSplot Procedure              *
;  ****************************************
;
;   Subplot Table procedure that checks for the required fields.  Tests are
;  performed sequentially.  At the first failure, the procedure returns False.
;  A True is returned if all tests are passed.  The order of the required
;  fields is based on the order they appear on the form.


PROC RqdRulesSplot()
  IF FldBlank("Site Number","Site Number") THEN
    RETURN False
  ENDIF
  IF FldBlank("Strip Number","Strip Number") THEN  ; Required Strip Number
    RETURN False
  ENDIF
  IF FldBlank("Subplot Number","Subplot Number") THEN ; Required Subplot Number
    RETURN False
  ENDIF
  RETURN True
ENDPROC

WRITELIB "SiteProg" RqdRulesSplot
RELEASE PROCS RqdRulesSplot

;  ****************************************
;  * RqdRulesDSH Procedure                *
```

```
;  ****************************************
;
;   Dom_S&H Table procedure that checks for the required fields.  Tests are
;  performed sequentially.  At the first failure, the procedure returns False.
;  A True is returned if all tests are passed.  The order of the required
;  fields is based on the order they appear on the form.


PROC RqdRulesDSH()
  IF FldBlank("Class","Class (DH1/DH2/DS1/DS2)") THEN
     RETURN False
  ENDIF
  RETURN True
ENDPROC

WRITELIB "SiteProg" RqdRulesDSH
RELEASE PROCS RqdRulesDSH
```

```
; SMS1VLCK.SC          Validity Checks script
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;

;  Processes the validation required for the General and LOD tables

PROC GenValChecks(tblname)
 PRIVATE retprocval

  SWITCH
    CASE tblname = "Entry" OR tblname = "General" : ; General table
         retprocval = RqdRulesGen()
         RETURN retprocval

   ;CASE tblname = "General" :                    ; General table
   ;     retprocval = RqdRulesGen()
   ;     RETURN retprocval

    CASE tblname = "Entry1" :                     ; LOD psuedo table
         retprocval = RqdRulesLOD()
         RETURN retprocval

    CASE tblname = "LOD" :                        ; LOD table
         retprocval = RqdRulesLOD()
         RETURN retprocval

    OTHERWISE:
         msg = "Table not found, call programmer to fix"
         RETURN FALSE
  ENDSWITCH
ENDPROC

WRITELIB "SiteProg" GenValChecks
RELEASE PROCS GenValChecks
```

```
; SMS2VLCK.SC          Validity Checks script
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
;  Processes the validation required for the Strip and Trees tables

PROC StrpValChecks(tblname)
 PRIVATE retprocval

  SWITCH
    CASE tblname = "Entry"  :                     ; Strip psuedo table
         retprocval = RqdRulesStrip()
         RETURN retprocval

    CASE tblname = "Strip"  :                     ; Strip table
         retprocval = RqdRulesStrip()
         RETURN retprocval

    CASE tblname = "Entry1"  :                     ; Trees pseudo table
         retprocval = RqdRulesTrees()
         RETURN retprocval

    CASE tblname = "Trees"  :                     ; Trees table
         retprocval = RqdRulesTrees()
         RETURN retprocval
    OTHERWISE:
         msg = "Table not found, call programmer to fix"
         RETURN False
  ENDSWITCH
ENDPROC

WRITELIB "SiteProg" StrpValChecks
RELEASE PROCS StrpValChecks
```

```
; SMS3VLCK.SC          Validity Checks script
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;
;  Processes the validation required for the Subplot and Dom Herbs/Shrubs tables

PROC SplotValChecks(tblname)
 PRIVATE retprocval

  SWITCH
    CASE tblname = "Entry"  :                    ; Subplot psuedo table
         retprocval = RqdRulesSplot()
         RETURN retprocval

    CASE tblname = "Subplot"  :                  ; Subplot table
         retprocval = RqdRulesSplot()
         RETURN retprocval

    CASE tblname = "Entry1"  :                   ; Dom_S&H pseudo table
         retprocval = RqdRulesDSH()
         RETURN retprocval

    CASE tblname = "Trees"  :                   ; Dom_S&H table
         retprocval = RqdRulesDSH()
         RETURN retprocval
    OTHERWISE:
         msg = "Table not found, call programmer to fix"
         RETURN False
  ENDSWITCH
ENDPROC

WRITELIB "SiteProg" SplotValChecks
RELEASE PROCS SplotValChecks
```

```
; SiteSupp.SC
; Site support files
; Contains Splash screens and miscellaneous support procedures.
;
;    Roosevelt McKenzie
;    Data Administrator
;    Washington Department of Wildlife
;    600 Capitol Way North
;    MS: GJ-11
;    Olympia, WA 98501-1091
;    (206) 753-5723
;

; ***************************************************************************

Proc Siteg()

; Siteg
@ 0,0 Clear EOS
@ 2,0

Text
                              Welcome to the


              +---------------------------------------------+
              |                                             |
              |      Washington Department of Wildlife      |
              |                                             |
              | Riparian Management Zone/Upland Management Area |
              |                                             |
              |           Site Management System            |
              |                                             |
              +---------------------------------------------+


                          Version 08.90.02.00
                      Information Systems Section
                          Data Administration
                               June 1991

EndText

PaintCanvas Attribute 28
2,0,24,79

sleep 5000

ENDPROC

WriteLib "SiteProg" Siteg
Release Procs Siteg

; ***************************************************************************

Proc Splash1()

; SPLASH SCREEN for SITE Main Menu
  @0,0 Clear EOS

  Style Attribute 48
  @3,0    ;Alt 255 at each end of line to fill Tex/EndText
  Text
  -------------------------------------------------------------
                              SMS MAIN MENU

  [ADD]          Create RMZ/UMA Site master and related records

  [VIEW]         View any table in this application

  [EDIT]         Edit RMZ/UMA Site master and related records

  [REPORT]       Go to the Reports MENU

  [LEAVE]        Quit this system and go to Paradox
  -------------------------------------------------------------
  EndText

ENDPROC

WriteLib "SiteProg" Splash1
```

```
Release Procs Splash1

; ***************************************************************************

Proc Splash2()
; SPLASH SCREEN for SITE View Menu
  @0,0 Clear EOS

  Style Attribute 48
  @3,0    ;Alt 255 at each end of line to fill Text/EndText
  Text
  ------------------------------------------------------------------
                          VIEW RECORD MENU

  [Gen]          View General record with linked LOD records

  [Strp]         View Strip record with linked tree records

  [Splot]        View Subplot records with linked Dom_S&H records

  [Veg1]         View Shrub and Herb library table

  [Veg2]         View Tree library table

  [Return]       Return to the Main Menu
  ------------------------------------------------------------------
  EndText

ENDPROC

WriteLib "SiteProg" Splash2
Release Procs Splash2

; ***************************************************************************

Proc Splash3()
; SPLASH SCREEN for SITE Edit Menu
  @0,0 Clear EOS

  Style Attribute 48
  @3,0    ;Alt 255 at each end of line to fill Tex/EndText
  Text
  ------------------------------------------------------------------
                          EDIT RECORD MENU

  [Gen]          Edit General record with linked LOD records

  [Strp]         Edit Strip record with linked tree records

  [Splot]        Edit Subplot records with linked Dom_S&H records

  [Veg1]         Edit Shrub and Herb library table

  [Veg2]         Edit Tree library table

  [Return]       Return to the Main Menu
  ------------------------------------------------------------------
  EndText

ENDPROC

WriteLib "SiteProg" Splash3
Release Procs Splash3

; ***************************************************************************

Proc Splash4()
; SPLASH SCREEN for SITE Add Menu
  @0,0 Clear EOS

  Style Attribute 48
  @3,0    ;Alt 255 at each end of line to fill Text/EndText
  Text
  ------------------------------------------------------------------
                          ADD RECORDS MENU

  [Gen]           Add General record with linked LOD records

  [Strp]          Add Strip record with linked tree records

  [Splot]         Add Subplot records with linked Dom_S&H records

  [Return]        Return to the Main Menu
  ------------------------------------------------------------------
  EndText
```

```
ENDPROC

WriteLib "SiteProg" Splash4
Release Procs Splash4

; ************************************************************************

Proc R_Splash1()
; SPLASH SCREEN for REPORT Main Menu
  @0,0 Clear EOS

  Style Attribute 48
  @3,0    ;Alt 255 at each end of line to fill Text/EndText
  Text
  ------------------------------------------------------------------
                              REPORT MENU

  [Gen]         Select and print RMZ/UMA General Site data

  [LOD]         Select and print RMZ/UMA LOD data

  [Strip]       Select and print RMZ/UMA Strip data

  [Trees]       Select and print RMZ/UMA Tree data

  [Subplot]     Select and print RMZ/UMA Subplot data

  [Dom_S&H]     Select and print RMZ/UMA Dominant Herb & Shrub Data

  [Leave]       Return to the Main Menu
  ------------------------------------------------------------------
  EndText

ENDPROC

WriteLib "SiteProg" R_Splash1
Release Procs R_Splash1

; ************************************************************************

Proc R_Splash2()
; SPLASH SCREEN for General REPORT Menu
  @0,0 Clear EOS

  Style Attribute 48
  @3,0    ;Alt 255 at each end of line to fill Text/EndText
  Text
  ------------------------------------------------------------------
                            GENERAL REPORTS

  [Gen1]        Print Eastside UMA Sites By UMA Type

  [Gen2]        Print Westside UMA Sites By UMA Type

  [Gen3]        Print Eastside RMZ Sites By Water Type & Substrate

  [Gen4]        Print Westside RMZ Sites By Water Type & Substrate

  [Return]      Go Back to the Report Menu
  ------------------------------------------------------------------
  EndText

ENDPROC

WriteLib "SiteProg" R_Splash2
Release Procs R_Splash2

; ************************************************************************

Proc R_Splash3()
; SPLASH SCREEN for LOD REPORT Menu
  @0,0 Clear EOS

  Style Attribute 48
  @3,0    ;Alt 255 at each end of line to fill Text/EndText
  Text
  ------------------------------------------------------------------
                              LOD REPORTS

  [LOD1]        Print Eastside RMZ Site LOD averages

  [LOD2]        Print Westside RMZ Site LOD averages

  [Return]      Go Back to the Report Menu
```

```
  ------------------------------------------------------------------_
  EndText

ENDPROC

WriteLib "SiteProg" R_Splash3
Release Procs R_Splash3

; ***************************************************************************

Proc R_Splash4()
; SPLASH SCREEN for Strip REPORT Menu
  @0,0 Clear EOS

  Style Attribute 48
  @3,0    ;Alt 255 at each end of line to fill Text/EndText
  Text
  ------------------------------------------------------------------_
                          STRIP REPORTS                            _
                                                                   _
  [Strip1]      Print Eastside UMA averages by type                _
                                                                   _
  [Strip2]      Print Westside UMA averages by type                 _
                                                                   _
  [Strip3]      Print Eastside RMZ averages by type                _
                                                                   _
  [Strip4]      Print Westside RMZ averages by type                 _
                                                                   _
  [Return]      Go Back to the Report Menu                         _
  ------------------------------------------------------------------_
  EndText

ENDPROC

WriteLib "SiteProg" R_Splash4
Release Procs R_Splash4

; ***************************************************************************

Proc R_Splash5()
; SPLASH SCREEN for Tree REPORT Menu
  @0,0 Clear EOS

  Style Attribute 48
  @3,0    ;Alt 255 at each end of line to fill Text/EndText
  Text
  ------------------------------------------------------------------_
                          TREE REPORTS                             _
                                                                   _
  [Tree1]       Print live tree count by Side, Tree Type & Name    _
                                                                   _
  [Tree2]       Print live tree count by Side, Size, Type & Name   _
                                                                   _
  [Tree3]       Print Eastside UMA live tree counts by UMA type    _
                                                                   _
  [Tree4]       Print Westside UMA live tree counts by UMA type    _
                                                                   _
  [Tree5]       Print Eastside RMZ live tree counts by water type  _
                                                                   _
  [Tree6]       Print Westside RMZ live tree counts by water type  _
                                                                   _
  [Tree7]       Print blowdowns, snags & stumps by Side and type   _
                                                                   _
  [Return]      Go Back to the Report Menu                         _
  ------------------------------------------------------------------_
  EndText

ENDPROC

WriteLib "SiteProg" R_Splash5
Release Procs R_Splash5

; ***************************************************************************

Proc R_Splash6()
; SPLASH SCREEN for Subplot REPORT Menu
  @0,0 Clear EOS

  Style Attribute 48
  @3,0    ;Alt 255 at each end of line to fill Text/EndText
  Text
  ------------------------------------------------------------------_
                          SUBPLOT REPORTS                          _
                                                                   _
  [Subplot1]    Print Eastside UMA averages by UMA type            _
```

```
   [Subplot2]     Print Westside UMA averages by UMA type                  _
                                                                           _
   [Subplot3]     Print Eastside RMZ averages by water type & substrate_
                                                                           _
   [Subplot4]     Print Westside RMZ averages by water type & substrate_
                                                                           _
   [Return]       Go Back to the Report Menu                              _
   ------------------------------------------------------------------------
   EndText

ENDPROC

WriteLib "SiteProg" R_Splash6
Release Procs R_Splash6

; ****************************************************************************

Proc R_Splash7()
; SPLASH SCREEN for Dom_S&H REPORT Menu
  @0,0 Clear EOS

  Style Attribute 48
  @3,0    ;Alt 255 at each end of line to fill Text/EndText
  Text
  ------------------------------------------------------------------------
                  DOMINANT HERBS & SHRUBS REPORTS                          _
                                                                           _
   [DOM_S&H1]    Print Eastside UMA dominant herb & shurb avg midpoint_
                                                                           _
   [DOM_S&H2]    Print Westside UMA dominant herb & shrub avg midpoint_
                                                                           _
   [DOM_S&H3]    Print Eastside RMZ dominant herb & shrub avg midpoint_
                                                                           _
   [DOM_S&H4]    Print Westside RMZ dominant herb & shrub avg midpoint_
                                                                           _
   [Return]      Go Back to the Report Menu                               _
   ------------------------------------------------------------------------
  EndText

ENDPROC

WriteLib "SiteProg" R_Splash7
Release Procs R_Splash7

; ****************************************************************************

; Procedure for creating a new record during table edit.
Proc MakeRec()
          End
          EditKey
          Down
          Wait Record
          Prompt "Add new record...press [F2] to continue"
          Until "F2", "Esc"
          If retval = "F2" Then
               Do_It!
          Else
               UNDO
               Do_It!
          EndIf
ENDPROC

WriteLib "SiteProg" MakeRec
Release Procs MakeRec

; ****************************************************************************

; Procedure for deleting a record during table edit.
PROC KillRec()
     Style Reverse, Blink
     @24,20 CLEAR EOL ?? "Do you really want to delete this record (Y/N)? "
     Accept "A1" To answer
     If ((answer = "Y") or (answer = "y")) Then
          Del
     Else MESSAGE "Record not deleted"
          Sleep 1500
     EndIf
ENDPROC

WriteLib "SiteProg" KillRec
Release Procs KillRec

; ****************************************************************************
;  Procedure to test if the field passed as a parameter is blank. If the field
```

```
; is blank the procedure returns True, otherwise False is returned.

PROC FldBlank(fldnm,fldtxt)
 PRIVATE fldblnk

; fldnm   - Field name as defined in the table
; fldtxt  - Text to be inserted into the global variable "msg" that is displayed
;           to the user if the field is blank
; fldblnk - Variable for the logical result of the ISBLANK function

  EXECUTE "fldblnk = ISBLANK(["+fldnm+"])"    ; Create a PAL statement to test
  IF fldblnk THEN                             ; if the field is blank. If it is
    MOVETO FIELD fldnm                        ; empty, move to the field, set
    msg = fldtxt+" must be entered"           ; the msg variable and return
    RETURN True
  ELSE
    RETURN False
  ENDIF
ENDPROC

WRITELIB "SiteProg" FldBlank
RELEASE PROCS FldBlank
```

Section 8

Support Programs

Support Programs

3 1/2" Diskette DOS 3.xx Installation Programs

```
echo off
cls
rem INSTALL3.BAT
if "%1"=="" goto nodrive
goto cont

:nodrive
cls
echo.
echo          ************************************************************
echo          * You must specify the hard drive you want the application  *
echo          * installed on. If you want to install on drive C:, enter   *
echo          *                                                           *
echo          *                      install3 c:                          *
echo          *                                                           *
echo          *        at the A: prompt and press the Enter key.          *
echo          *                                                           *
echo          ************************************************************
echo.
goto end

:cont
md %1\site91
cls
echo.
echo          ************************************************************
echo          *                                                           *
echo          *          Copying SMS Application and Data Files           *
echo          *                                                           *
echo          ************************************************************
echo.
copy cont3.bat %1\site91>nul:
copy site91.exe %1\site91>nul:
copy sms91.bat %1>nul:
%1
cd\site91
cont3.bat
:end
```

```
echo off
cls
rem Cont3.bat
rem Get files off SMS\Paradox 1 disk.
rem Get paradox runtime files.
cls
echo.
echo          ************************************************************
echo          *                                                           *
echo          *          Place SMS/Paradox 1 Diskette in drive B:         *
echo          *                                                           *
echo          ************************************************************
echo.
pause
cls
echo.         ************************************************************
echo          *                                                           *
echo          *            Copying SMS and Paradox Program Files          *
echo          *                                                           *
echo          ************************************************************
copy B:\pdr35.exe>nul:
cls

rem Extract Paradox files
cls
echo.
echo          ************************************************************
echo          *                                                           *
echo          *         Extracting Paradox Runtime program files.         *
echo          *                                                           *
echo          ************************************************************
echo.
pdr35>nul:

rem Extract SMS system files
cls
echo.
echo          ************************************************************
```

```
echo          *                                                          *
echo          *         Extracting SMS application and data files.       *
echo          *                                                          *
echo          ************************************************************
echo.
site91>nul:

rem Cleanup compressed files

erase site91.exe>nul:
erase pdr35.exe>nul:

cls
echo.
echo          ************************************************************
echo          *                                                          *
echo          *             RMZ/UMA SMS installation complete.           *
echo          *                                                          *
echo          *                   Remove disk and store...               *
echo          *                                                          *
echo          ************************************************************
echo.

:end
cd\
```

3 1/2" Diskette DOS 4.xx Installation Programs

```
echo off
cls
rem INSTALL4.BAT
if "%1"=="" goto nodrive
goto cont

:nodrive
cls
echo.
echo          ************************************************************
echo          * You must specify the hard drive you want the application  *
echo          * installed on. If you want to install on drive C:, enter   *
echo          *                                                          *
echo          *                      install4 c:                         *
echo          *                                                          *
echo          *         at the B: prompt and press the Enter key.        *
echo          *                                                          *
echo          ************************************************************
echo.
goto end

:cont
md %1\site91
cls
echo.
echo          ************************************************************
echo          *                                                          *
echo          *           Copying SMS Application and Data Files         *
echo          *                                                          *
echo          ************************************************************
echo.
copy cont4.bat %1\site91>nul:
copy site91.exe %1\site91>nul:
%1
cd\site91
call %1\site91\cont4.bat

rem Extract Paradox files
cls
echo.
echo          ************************************************************
echo          *                                                          *
echo          *         Extracting Paradox Runtime program files.        *
echo          *                                                          *
echo          ************************************************************
echo.
pdr35>nul:

rem Extract SMS system files
cls
echo.
echo          ************************************************************
echo          *                                                          *
echo          *         Extracting SMS application and data files.       *
echo          *                                                          *
```

```
echo          ************************************************************
echo.
site91>nul:

rem Cleanup compressed files
cls
cd\
erase %1\site91\site91.exe>nul:
erase %1\site91\pdr35.exe>nul:
erase %1\site91\*.bat>nul:

rem Put the startup file on the root
cls
copy b:\sms91.bat %1>nul:
cls
echo.
echo          ************************************************************
echo          *                                                          *
echo          *             RMZ/UMA SMS installation complete.           *
echo          *                                                          *
echo          *                   Remove disk and store...               *
echo          *                                                          *
echo          ************************************************************
echo.

:end
```

5 1/4" Diskette DOS 3.xx Installation Programs

```
echo off
cls
rem INSTALL3.BAT
if "%1"=="" goto nodrive
goto cont

:nodrive
cls
echo.
echo          ************************************************************
echo          * You must specify the hard drive you want the application  *
echo          * installed on. If you want to install on drive C:, enter   *
echo          *                                                          *
echo          *                       install3 c:                        *
echo          *                                                          *
echo          *         at the A: prompt and press the Enter key.        *
echo          *                                                          *
echo          ************************************************************
echo.
goto end

:cont
md %1\site91
cls
echo.
echo          ************************************************************
echo          *                                                          *
echo          *           Copying SMS Application and Data Files         *
echo          *                                                          *
echo          ************************************************************
echo.
copy cont3.bat %1\site91>nul:
copy site91.exe %1\site91>nul:
copy sms91.bat %1>nul:
%1
cd\site91
cont3.bat
:end
```

```
echo off
cls
rem Cont3.bat
rem Get files off SMS\Paradox 1 disk.
rem Get paradox runtime files.
cls
echo.
echo          ************************************************************
echo          *                                                          *
echo          *          Place SMS/Paradox 1 Diskette in drive A:        *
echo          *                                                          *
echo          ************************************************************
```

```
echo.
pause
cls
echo.          ************************************************************
echo           *                                                          *
echo           *            Copying SMS and Paradox Program Files         *
echo           *                                                          *
echo           ************************************************************
copy A:\pdr35.exe>nul:
cls

rem Extract Paradox files
cls
echo.
echo           ************************************************************
echo           *                                                          *
echo           *         Extracting Paradox Runtime program files.        *
echo           *                                                          *
echo           ************************************************************
echo.
pdr35>nul:

rem Extract SMS system files
cls
echo.
echo           ************************************************************
echo           *                                                          *
echo           *         Extracting SMS application and data files.       *
echo           *                                                          *
echo           ************************************************************
echo.
site91>nul:

rem Cleanup compressed files

erase site91.exe>nul:
erase pdr35.exe>nul:

cls
echo.
echo           ************************************************************
echo           *                                                          *
echo           *              RMZ/UMA SMS installation complete.          *
echo           *                                                          *
echo           *                    Remove disk and store...              *
echo           *                                                          *
echo           ************************************************************
echo.

:end
cd\
```

5 1/4" Diskette DOS 4.xx Installation Programs

```
echo off
cls
rem INSTALL4.BAT
if "%1"=="" goto nodrive
goto cont

:nodrive
cls
echo.
echo           ************************************************************
echo           * You must specify the hard drive you want the application  *
echo           * installed on. If you want to install on drive C:, enter   *
echo           *                                                          *
echo           *                        install4 c:                       *
echo           *                                                          *
echo           *          at the B: prompt and press the Enter key.       *
echo           *                                                          *
echo           ************************************************************
echo.
goto end

:cont
md %1\site91
cls
echo.
echo           ************************************************************
echo           *                                                          *
echo           *            Copying SMS Application and Data Files        *
echo           *                                                          *
```

```
echo          ************************************************************
echo.
copy cont4.bat %1\site91>nul:
copy site91.exe %1\site91>nul:
%1
cd\site
call %1\site91\cont4.bat

rem Extract Paradox files
cls
echo.
echo          ************************************************************
echo          *                                                          *
echo          *         Extracting Paradox Runtime program files.        *
echo          *                                                          *
echo          ************************************************************
echo.
pdr35>nul:

rem Extract SMS system files
cls
echo.
echo          ************************************************************
echo          *                                                          *
echo          *         Extracting SMS application and data files.       *
echo          *                                                          *
echo          ************************************************************
echo.
site91>nul:

rem Cleanup compressed files
cls
cd\
erase %1\site91\site91.exe>nul:
erase %1\site91\pdr35.exe>nul:
erase %1\site91\*.bat>nul:

rem Put the startup file on the root
cls
copy a:\sms91.bat %1>nul:
cls
echo.
echo          ************************************************************
echo          *                                                          *
echo          *             RMZ/UMA SMS installation complete.           *
echo          *                                                          *
echo          *                  Remove disk and store...                *
echo          *                                                          *
echo          ************************************************************
echo.

:end
```

```
echo off
cls
rem Cont4.bat
rem Get files off SMS\Paradox 1 disk.
rem Get paradox runtime files.
cls
echo.
echo          ************************************************************
echo          *                                                          *
echo          *         Place SMS/Paradox 1 Diskette in drive A:         *
echo          *                                                          *
echo          ************************************************************
echo.
pause
cls
echo.         ************************************************************
echo          *                                                          *
echo          *           Copying SMS and Paradox Program Files          *
echo          *                                                          *
echo          ************************************************************
copy A:\pdr35.exe>nul:
cls

rem Get start up files and clean up.
:end2
cls
echo.
echo          ************************************************************
echo          *                                                          *
echo          *         Place SMS Installation Disk 1 in drive A:        *
```

```
echo          *                                                          *
echo          ************************************************************
echo.
echo.
pause
```

SMS Start-up Program

```
echo off
cls
rem SMS91.bat
rem SMS startup batch file

:execute
cd\site91
pdoxrun sms_strt
cd\
cls
```