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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SMS System Requirements

Minimum System Hardware Requirements

IBM PC-AT or equivalent
1 Mb 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 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* Diskette&**

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

   ![SMS Opening Screen]

   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

3. This screen will clear after approximately 5 seconds.
SMS Main Menu

<table>
<thead>
<tr>
<th>[Add]</th>
<th>View</th>
<th>Edit</th>
<th>Report</th>
<th>Leave</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add records to selected tables</td>
<td>View any table in this application</td>
<td>Edit site master and related records</td>
<td>Report menu</td>
<td>Leave system and exit application</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Menu Selection</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Add]</td>
<td>Add new data to RMZ/UMA site files.</td>
</tr>
<tr>
<td>[View]</td>
<td>View selected RMZ/UMA site data.</td>
</tr>
<tr>
<td>[Leave]</td>
<td>Exit the application.</td>
</tr>
</tbody>
</table>
**SMS Add Menu**

<table>
<thead>
<tr>
<th>Selection</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Strp]</td>
<td>Add new data to the Strip and Tree tables.</td>
</tr>
<tr>
<td>[Splot]</td>
<td>Add new data to the Subplot and Dominant Shrub/Herb tables.</td>
</tr>
<tr>
<td>[Return]</td>
<td>Return to the Main Menu.</td>
</tr>
</tbody>
</table>

- **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 //mired disk and memory resources.
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.

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

List continues on next page...
<table>
<thead>
<tr>
<th>Screen Label</th>
<th>Large Organic Debris</th>
<th>Allowable Entry</th>
<th>Block Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entry #</td>
<td></td>
<td>Sequential line or block count of the LOD entry on Card 1 B. There are 66 entries per card.</td>
<td></td>
</tr>
<tr>
<td>Veg Type</td>
<td>TC, TH, or TU</td>
<td></td>
<td>26</td>
</tr>
<tr>
<td>Len Meas</td>
<td>Number between 1 and 99</td>
<td></td>
<td>24X</td>
</tr>
<tr>
<td>Len Est</td>
<td>Number between 1 and 99</td>
<td></td>
<td>24Y</td>
</tr>
<tr>
<td>Tot Len</td>
<td>Calculated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diameter</td>
<td>Number between 1 and 99</td>
<td></td>
<td>25</td>
</tr>
</tbody>
</table>
### Screen Label
- **Strip**
- **Site Number**
- **Site Type**
- **Water Type**
- **Substrate**
- **Side**
- **UMA Type**

### STRIP
- **Strip #**
- **Direction**
- **Stream Canopy**
- **Stream Width**
- **Stream Depth**
- **Gradient**
- **Site Width**
- **Azimuth**
- **Slope**
- **Aspect**
- **Toposite**
- **RMZ Pint Assn**
- **UMA Pint Assn**
- **Final SP Len**

### TREES
<table>
<thead>
<tr>
<th>Entry</th>
<th>Tree Class</th>
<th>Size Class</th>
<th>Tree Code</th>
<th>Common Name</th>
<th>Tree Count</th>
</tr>
</thead>
</table>

### Allowable Entry
- **Strip**
  - Site Number: Number between 1 and 999
  - Site Type: Number between 0 and 999
- **Site Type**
  - Water Type: Number between 0 and 99
  - Substrate: Number between 0 and 999
  - Side: Number between 0 and 9
  - UMA Type: Number between 0 and 9
- **UMA Type**
  - Strip #: Max = 3 characters
  - Direction: Number between 0 and 359
  - Stream Canopy: Number between 0 and 99
  - Stream Width: Number between 1 and 999
  - Stream Depth: Number between 0 and 9.9
  - Gradient: Number between 0 and 99
  - Site Width: Number between 0 and 999
  - Azimuth: Number between 0 and 359
  - Slope: Number between 0 and 100
  - Aspect: Number between 0 and 9
  - Toposite: Number between 1 and 8
  - RMZ Pint Assn: Max = 8 characters
  - UMA Pint Assn: Max = 8 characters
  - Final SP Len: Number between 0 and 9
- **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
  - Size Class: Number between 1 and 7
  - Tree Code: Number between 0 and 999
  - Veg Type: Max = 1 character
  - Common Name: Number between 1 and 9
  - Tree Count: Number between 1 and 9

---

**SMS- 14**
Subplot/Dominant Herbs & Shrubs Data Entry Form

**ADD RECORDS**
- [Alt][F2] - Save/Exit [Esc] - Cancel
- [F3] - Subplot
- [F4] - Dom_S&H

**[PgDn] - New Record**
- [PgUp] - Previous Record

### SUBPLOT
- Site Number:
- Site Type:
- Water Type:
- Substrate:
- Side:
- UMA Type:

### GROUND COVER
- Cover Midpoint
- Shrub:
- Forbs:
- Grams:
- DW1:
- DW2:
- DW3:
- Water:
- Rock:
- Soil:
- OGC:

### DOMINANT SHRUBS & HERBS
- Class Code
- Veg. Type
- Common Name
- Cover

<table>
<thead>
<tr>
<th>Screen Label</th>
<th>Allowable Entry</th>
<th>Block Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subplot</td>
<td>Number between 1 and 999</td>
<td>1</td>
</tr>
<tr>
<td>Site Number</td>
<td>Number between 1 and 999</td>
<td>45</td>
</tr>
<tr>
<td>Site Type</td>
<td>Number between 0 and 99</td>
<td>46</td>
</tr>
<tr>
<td>Water Type</td>
<td>Number between 0 and 6</td>
<td>49</td>
</tr>
<tr>
<td>Substrate</td>
<td>Number between 0 and 6</td>
<td>52</td>
</tr>
<tr>
<td>Side</td>
<td>Number between 0 and 6</td>
<td>53</td>
</tr>
<tr>
<td>UMA Type</td>
<td>Number between 0 and 6</td>
<td>54</td>
</tr>
<tr>
<td>Strip Number</td>
<td>Max = 3 characters</td>
<td>26</td>
</tr>
<tr>
<td>Subplot #</td>
<td>Max = 3 characters</td>
<td>26</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>Number between 0 and 6</td>
<td>55</td>
</tr>
<tr>
<td>Shrub (Cover)</td>
<td>Number between 0 and 6</td>
<td>56</td>
</tr>
<tr>
<td>Forbs (Cover)</td>
<td>Number between 0 and 6</td>
<td>57</td>
</tr>
<tr>
<td>Grams (Cover)</td>
<td>Number between 0 and 6</td>
<td>58</td>
</tr>
<tr>
<td>DW1 (Cover)</td>
<td>Number between 0 and 6</td>
<td>59</td>
</tr>
<tr>
<td>DW2 (Cover)</td>
<td>Number between 0 and 6</td>
<td>60</td>
</tr>
<tr>
<td>DW3 (Cover)</td>
<td>Number between 0 and 6</td>
<td>60</td>
</tr>
<tr>
<td>Water (Cover)</td>
<td>Number between 0 and 6</td>
<td>60</td>
</tr>
<tr>
<td>Rock (Cover)</td>
<td>Number between 0 and 6</td>
<td>61</td>
</tr>
<tr>
<td>Soil (Cover)</td>
<td>Number between 0 and 6</td>
<td>62</td>
</tr>
<tr>
<td>OGC (Cover)</td>
<td>Number between 0 and 6</td>
<td>63</td>
</tr>
<tr>
<td>DOM_S&amp;H</td>
<td>dh1, dh2, ds1 or ds2</td>
<td>47</td>
</tr>
<tr>
<td>Class</td>
<td>Max = 4 characters</td>
<td>47</td>
</tr>
<tr>
<td>Veg. Type</td>
<td>Max = 4 characters</td>
<td>47</td>
</tr>
<tr>
<td>Common Name</td>
<td>Number between 1 and 6</td>
<td>48</td>
</tr>
<tr>
<td>Cover</td>
<td>Number between 1 and 6</td>
<td>48</td>
</tr>
</tbody>
</table>
**SMS View Menu**

<table>
<thead>
<tr>
<th>Menu Selection</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Gen]</td>
<td>View General and linked LOD records</td>
</tr>
<tr>
<td>[Strp]</td>
<td>View Strip and linked Tree records</td>
</tr>
<tr>
<td>[Splot]</td>
<td>View Subplot and linked Dominant Herb &amp;Shrub records</td>
</tr>
<tr>
<td>[Veg1]</td>
<td>View Shrub and Herb code library</td>
</tr>
<tr>
<td>[Veg2]</td>
<td>View Tree code library</td>
</tr>
<tr>
<td>[Return]</td>
<td>Return to the Main Menu</td>
</tr>
</tbody>
</table>

**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.

**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 view.
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.

<table>
<thead>
<tr>
<th>Entry #</th>
<th>Type</th>
<th>Len Meas</th>
<th>Len Est</th>
<th>Tot Len</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TC</td>
<td>2</td>
<td>15</td>
<td>17</td>
<td>50</td>
</tr>
<tr>
<td>2</td>
<td>TC</td>
<td>9</td>
<td>15</td>
<td>24</td>
<td>18</td>
</tr>
<tr>
<td>3</td>
<td>TC</td>
<td>11</td>
<td>10</td>
<td>21</td>
<td>40</td>
</tr>
<tr>
<td>4</td>
<td>TC</td>
<td>12</td>
<td>12</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>5</td>
<td>TC</td>
<td>12</td>
<td>23</td>
<td>35</td>
<td>32</td>
</tr>
<tr>
<td>6</td>
<td>TC</td>
<td>13</td>
<td>2</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>7</td>
<td>TC</td>
<td>14</td>
<td>5</td>
<td>19</td>
<td>18</td>
</tr>
<tr>
<td>8</td>
<td>TC</td>
<td>17</td>
<td>35</td>
<td>52</td>
<td>24</td>
</tr>
</tbody>
</table>
**SMS Edit Menu**

<table>
<thead>
<tr>
<th>Menu Selection</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Gen]</td>
<td>Edit General and linked LOD records.</td>
</tr>
<tr>
<td>[Strp]</td>
<td>Edit Strip and linked Tree records.</td>
</tr>
<tr>
<td>[Splot]</td>
<td>Edit Subplot and linked Dominant Herb &amp; Shrub records.</td>
</tr>
<tr>
<td>[Veg1]</td>
<td>Edit Shrub &amp; Herb code library.</td>
</tr>
<tr>
<td>[Veg2]</td>
<td>Edit Tree code library.</td>
</tr>
<tr>
<td>[Return]</td>
<td>Return to the Main Menu.</td>
</tr>
</tbody>
</table>

**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.

**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

Enter Site Number or Press Enter ( đề ) and select Site to view:
The 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.

<table>
<thead>
<tr>
<th>SITE NUMBER</th>
<th>SITE TYPE</th>
<th>WATER TYPE</th>
<th>SUBSTRATE</th>
<th>EAST/WEST</th>
<th>UMA TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>R</td>
<td>3</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>3</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>R</td>
<td>3</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>R</td>
<td>3</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>R</td>
<td>3</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>U</td>
<td>3</td>
<td>G</td>
<td></td>
<td>UF</td>
</tr>
<tr>
<td>7</td>
<td>R</td>
<td>3</td>
<td>G</td>
<td></td>
<td>UF</td>
</tr>
<tr>
<td>8</td>
<td>R</td>
<td>3</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>R</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>R</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>U</td>
<td>3</td>
<td></td>
<td></td>
<td>UF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENTRY #</th>
<th>VEG TYPE</th>
<th>LEN MEAS</th>
<th>LEN EST</th>
<th>TOTAL LEN</th>
<th>DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TC</td>
<td>2</td>
<td>15</td>
<td>17</td>
<td>50</td>
</tr>
<tr>
<td>2</td>
<td>TC</td>
<td>9</td>
<td>15</td>
<td>24</td>
<td>18</td>
</tr>
<tr>
<td>3</td>
<td>TC</td>
<td>11</td>
<td>10</td>
<td>21</td>
<td>40</td>
</tr>
<tr>
<td>4</td>
<td>TC</td>
<td>12</td>
<td>12</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>5</td>
<td>TC</td>
<td>12</td>
<td>23</td>
<td>35</td>
<td>32</td>
</tr>
<tr>
<td>6</td>
<td>TC</td>
<td>13</td>
<td>5</td>
<td>19</td>
<td>18</td>
</tr>
<tr>
<td>7</td>
<td>TC</td>
<td>14</td>
<td>5</td>
<td>19</td>
<td>18</td>
</tr>
<tr>
<td>8</td>
<td>TC</td>
<td>17</td>
<td>35</td>
<td>52</td>
<td>24</td>
</tr>
</tbody>
</table>
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 'g' will display the Tree Reports Menu.

<table>
<thead>
<tr>
<th>Menu Selection</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gen</td>
<td>Displays the General Reports Menu.</td>
</tr>
<tr>
<td>LOD</td>
<td>Displays the LOD Reports Menu.</td>
</tr>
<tr>
<td>Strip</td>
<td>Displays the Strip Reports Menu.</td>
</tr>
<tr>
<td>Trees</td>
<td>Displays the Tree Reports Menu.</td>
</tr>
<tr>
<td>Subplot</td>
<td>Displays the Subplot Reports Menu.</td>
</tr>
<tr>
<td>Dom_S&amp;H</td>
<td>Displays the Dominant Herbs &amp; Shrubs Reports Menu.</td>
</tr>
<tr>
<td>Leave</td>
<td>Return to the Main Menu.</td>
</tr>
</tbody>
</table>

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
<table>
<thead>
<tr>
<th>Trees</th>
<th>Live tree counts by side, tree type and common name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree1</td>
<td>Live tree counts by side, tree type and common name</td>
</tr>
<tr>
<td>Tree2</td>
<td>Eastside UMA live tree counts by UMA type</td>
</tr>
<tr>
<td>Tree3</td>
<td>Westside UMA live tree counts by UMA type</td>
</tr>
<tr>
<td>Tree4</td>
<td>Eastside RMZ live tree counts by water type</td>
</tr>
<tr>
<td>Tree5</td>
<td>Westside RMZ live tree counts by water type</td>
</tr>
<tr>
<td>Tree6</td>
<td>Eastside RMZ live tree counts by water type</td>
</tr>
<tr>
<td>Tree7</td>
<td>Blowdowns, snags and stumps by side and type</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subplots</th>
<th>Eastside UMA averages by UMA type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subplot1</td>
<td>Westside UMA averages by UMA type</td>
</tr>
<tr>
<td>Subplot2</td>
<td>Eastside RMZ averages by water type and substrate</td>
</tr>
<tr>
<td>Subplot3</td>
<td>Westside RMZ averages by water type and substrate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dominant Herbs &amp; Shrubs (Dom S&amp;H)</th>
<th>Eastside UMA dominant herb &amp; shrub average midpoint values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dom_S&amp;H1</td>
<td>Westside UMA dominant herb &amp; shrub average midpoint values</td>
</tr>
<tr>
<td>Dom_S&amp;H2</td>
<td>Eastside RMZ dominant herb &amp; shrub average midpoint values</td>
</tr>
<tr>
<td>Dom_S&amp;H3</td>
<td>Westside RMZ dominant herb &amp; shrub average midpoint values</td>
</tr>
<tr>
<td>Dom_S&amp;H4</td>
<td>Eastside RMZ dominant herb &amp; shrub average midpoint values</td>
</tr>
</tbody>
</table>

As the need arises, more reports may be added to this listing.
RMZ/UMA Site Management Information System

For
Habitat Management Division


Version 08.90.02.00
Washington Department of Wildlife
Information Systems Section
Roosevelt McKenzie
Data Administrator
June 1991
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600 North Capitol Way
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Olympia, WA 98501-1091

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<th>Contents</th>
<th>Section</th>
</tr>
</thead>
<tbody>
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<td>Data Model Diagram</td>
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</tr>
<tr>
<td>Entity Documentation List</td>
<td>2</td>
</tr>
<tr>
<td>Attribute Documentation List</td>
<td></td>
</tr>
<tr>
<td>Application Revision History</td>
<td>3</td>
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<tr>
<td>Physical Data Base File Structures</td>
<td>4</td>
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<tr>
<td>Operating Requirements</td>
<td>5</td>
</tr>
<tr>
<td><strong>Installation</strong></td>
<td></td>
</tr>
<tr>
<td>Application Procedures List</td>
<td>6</td>
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<tr>
<td>Application Program Listing</td>
<td>7</td>
</tr>
<tr>
<td>Support Programs</td>
<td>8</td>
</tr>
</tbody>
</table>
Section 1

Data Model Diagram
Section 2

Entity Documentation List
Attribute Documentation List
ENTITY DOCUMENTATION LIST

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

1. COW LIB
   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 : 227
   Current Capacity : 227
   Growth Rate : 100 per YEAR
   Growth Type : LINEAR
   Growth Potential : 0 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 : 6 years to reach potential
   Last Documented by : RMZSYS on 06/05/91
   Description : Large 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 information.

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 : This library contains specific information on herbs and shrubs. It is used by other files as a data lookup resource.

8  VEG LIB 1
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 LIB 2
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.
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Documentation List</th>
</tr>
</thead>
</table>
| **ASPECT** | Owner: SMS_STRIP.DB  
Password (Read):  
Password (Modify):  
Type:  
Length:  
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  
2 = Northeast  
3 = East  
4 = Southeast  
5 = South  
6 = Southwest  
7 = West  
8 = Northwest  
9 = Level or rolling |
| **AZIMUTH** | Owner: SMS_STRIP.DB  
Password (Read):  
Password (Modify):  
Type: 1  
Length: 3  
Decimal Places: 0  
Range:  
Last Documented by: RMZSYS on 16/8/90  
Description: Azimuth in degrees from stake along centerline. |
| **CANOPY COVERAGE** | 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. |
| **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. |
| **CODE_NUMBER** | Owner: SMS_VEG_LIB1.DB  
Password (Read):  
Password (Modify):  
Type:  
Length: 3  
Decimal Places: 0  
Range: 0 - 999  
Last Documented by: SMS on 7/6/91  
Description: Tree species code identification number. Refer to the TFW Field Procedures Handbook. |
| **COMMON_NAME** | Owner: SMS_VEG_LIB1.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_L161.DB
Password (Read) :
Password (Modify) :
Type : I
Length : 2
Decimal Places : 0
Range : 0 -
Last Documented by : SMS an 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_LCOO_DB
Password (Read) :
Password (Modify) :
Type : X
Length : 4
Decimal Places : 1
Range : 0 -
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 : 0 -
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 : X
Length : 2
Decimal Places : 0
Range : 0 -
Last Documented by : RMZSYS on 16/8/90
Description : See DSI_COVERAGE_VALUE.

11 DW1_MIDPOINT
Owner : SMS_SUBPLOT_DB
Password (Read) :
Password (Modify) :
Type : X
Length : 4
Decimal Places : 1
Range : 0 -
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 : X
Length : 2
Decimal Places : 0
Range : 0 -
Last Documented by : RMZSYS on 16/8/90
Description : See DSI_COVERAGE_VALUE

13 DW2_MIDPOINT
Owner : SMS_SUBPLOT_DB
Password (Read) :
Password (Modify) :
Type : X
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>4</td>
</tr>
<tr>
<td>Decimal Places</td>
<td>1</td>
</tr>
<tr>
<td>Range</td>
<td></td>
</tr>
<tr>
<td>Last Documented by</td>
<td>RMZSYS on 16/8/90</td>
</tr>
<tr>
<td>Description</td>
<td></td>
</tr>
</tbody>
</table>

**DWS COVERAGE_VALUE**

- **Owner**: SMS_SUBPLOT.DB
- **Password (Read)**: R
- **Password (Modify)**: R
- **Type**: A
- **Length**: 1
- **Decimal Places**: 0
- **Range**: 1 - 6
- **Last Documented by**: RMZSYS on 16/8/90
- **Description**: See D1_COVERAGE_VALUE.

**DWS MIDPOINT**

- **Owner**: SMS_SUBPLOT.DB
- **Password (Read)**: R
- **Password (Modify)**: R
- **Type**: X
- **Length**: 4
- **Decimal Places**: 1
- **Range**:                                                                                                                                 |
- **Last Documented by**: RMZSYS on 16/8/90
- **Description**: See D1.

**EAST/WEST**

- **Owner**: SMS_GENERAL.DB
- **Password (Read)**: R
- **Password (Modify)**: R
- **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

**ELEVATION**

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

**ENTRY_NUMBER**

- **Owner**: SMS_LDD.DB
- **Password (Read)**: R
- **Password (Modify)**: R
- **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 LDD entry on Card 18. There are 66 entries per card. There may be multiples of Card 1b.

**FINAL_SUBPLOT_LENGTH**

- **Owner**: SMS_STRIP.DB
- **Password (Read)**: R
- **Password (Modify)**: R
- **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.
FORBS_COVERAGE_VALUE
Owner : SMS_SUBPLOT.DB
Password (Read) :
Password (Modify) :
Type : 1
Length : 1
Decimal Places : 0
Range : 1 - 6
Last Documented by : SMS on 17/ 6/91
Description : see DS1_COVERAGE_VALUE

FORBS_MIDPOINT
Owner : SMS_SUBPLOT.DB
Password (Read) :
Password (Modify) :
Type : X
Length : 4
Decimal Places : 1
Range : 1 - 6
Last Documented by : RMZSYS on 16/ 8/90
Description : Percentage of forb coverage at ground level.

FPA_HARVEST_UNIT_AREA
Owner : SMS_GENERAL.DB
Password (Read) :
Password (Modify) :
Type : N
Length : 7
Decimal Places : 0
Range : 1 - 6
Last Documented by : SMS on 17/ 6/91
Description : The recorded area in acres from the DNR FPA that has not been

FPA_NUMBER
Owner : SMS_GENERAL.DB
Password (Read) :
Password (Modify) :
Type : N
Length : 7
Decimal Places : 0
Range : 1 - 6
Last Documented by : SMS on 17/ 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.

FPA_UNIT_AREA
Owner : SMS_GENERAL.DB
Password (Read) :
Password (Modify) :
Type : N
Length : 7
Decimal Places : 0
Range : 1 - 6
Last Documented by : RMZSYS on 16/ 8/90
Description : The recorded area in acres from the DNR FPA.

GRADIENT
Owner : SMS_GENERAL.DB
Password (Read) :
Password (Modify) :
Type : N
Length : 2
Decimal Places : 0
Range : 1 - 6
Last Documented by : RMZSYS on 16/ 8/90
Description : See DS1_COVERAGE_VALUE.

GRAMINOID_COVERAGE_VALUE
Owner : SMS_SUBPLOT.DB
Password (Read) :
Password (Modify) :
Type : 1
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_SAGPLOT.DB
Password (Read) : 
Password (Modify) : 
Type : X
Length : 4
Decimal Places : 1
Range
Last Documented by : RMZSYS 3" 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_LGD.D0
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_LGD.D0
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.D0
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.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Owner</th>
<th>Password (Read)</th>
<th>Password (Modify)</th>
<th>Type</th>
<th>Length</th>
<th>Decimal Places</th>
<th>Range</th>
<th>Last Documented by</th>
<th>Description</th>
</tr>
</thead>
</table>
| OGC_COVERAGE_VALUE | Percentage of OGC coverage. | SMS_SUBPLOT.DB | SMS | X | 4 | 1 | 1 | SMS on 17/6/91 | Code indicates type of ownership: \[ L = \text{Industrial} \]
| | | | | | | | | | \[ P = \text{Private} \]
| | | | | | | | | \[ S = \text{State} \] |
| OGC_MIDPOINT | Owner | SMS_SUBPLOT.DB | SMS | X | 4 | 1 | 1 | SMS on 17/6/91 | The total length measured in feet along the stream during strip plot staking. |
| OWNER_CODE | Code indicates type of ownership: \[ L = \text{Industrial} \]
| | | | | | | | | \[ P = \text{Private} \]
<p>| | | | | | | | | [ S = \text{State} ] |
| RMZ_LENGTH_MEASURED | Owner | SMS_GENERAL.DB | SMS | A | 5 | 0 | 1 | SMS on 7/6/91 | The total length measured in feet along the stream during strip plot staking. |
| RMZ_PLANT_ASSOCIATION | Owner | SMS_STRIP_DB | SMS | A | 14 | 0 | 1 | SMS on 16/8/90 | Riparian Zone plant association. |
| ROAD_DISTANCE | Owner | SMS_GENERAL.DB | SMS | A | 5 | 0 | 1 | SMS on 7/6/91 | The distance in feet to the nearest passable road calculated by using the FPA map and map wheel. |
| ROCK_COVERAGE_VALUE | Owner | SMS_SUBPLOT.DB | SMS | A | 5 | 0 | 1 | SMS on 17/6/91 | |</p>
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Owner</th>
<th>Password (Read)</th>
<th>Password (Modify)</th>
<th>Type</th>
<th>Length</th>
<th>Decimal Places</th>
<th>Range</th>
<th>Last Documented by</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROCK MIDPOINT</td>
<td>SMS_SUBPLOT.DB</td>
<td>X</td>
<td></td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td>RMZSYS on 1b, 8/90</td>
<td>Percentage of rock coverage.</td>
</tr>
<tr>
<td>SCIENTIFIC_NM</td>
<td>SMS_VEG_LIB1.DB</td>
<td>A</td>
<td></td>
<td>40</td>
<td>0</td>
<td></td>
<td></td>
<td>SMS on 17, 6/91</td>
<td>Scientific name of vegetation sample.</td>
</tr>
<tr>
<td>SHRUB COVERAGE_VALUE</td>
<td>SMS_SUBPLOT.DB</td>
<td>I</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td>RMZSYS on 16/8/90</td>
<td>Percentage of shrub coverage at ground level.</td>
</tr>
<tr>
<td>SITE NUMBER</td>
<td>SMS_GENERAL.DB</td>
<td>I</td>
<td></td>
<td>3</td>
<td>0</td>
<td></td>
<td></td>
<td>SMS on 7/6/91</td>
<td>A unique three (3) digit number that indicates the sequential order in which an RMZ or UMA site was sampled.</td>
</tr>
<tr>
<td>SITE_TYPE</td>
<td>SMS_GENERAL.DB</td>
<td>A</td>
<td></td>
<td>1</td>
<td>0</td>
<td></td>
<td></td>
<td>RMZSYS on 1b, 8/90</td>
<td>Alpha character code: R = RMZ, U = UMA, L = Lake or other water body.</td>
</tr>
</tbody>
</table>
SITE_WIDTH
Owner: SMS_STRIP.OB
Password (Read): 
Password (Modify): 
Type: 1
Length: 3
Decimal Places: 0
Owner: RHWS 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.

SIZE-CLASS
Owner: SMS_TREES
Password (Read): 
Password (Modify): 
Type: 1
Length: 1
Decimal Places: 0
Range: 1-7
Last Documented by: RMZSYS on 16/8/90
Description: Tree size class codes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Diameter (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0 - 1.9</td>
</tr>
<tr>
<td>3</td>
<td>2 - 7.9</td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>16 - 31.9</td>
</tr>
<tr>
<td>6</td>
<td>32 - 69.9</td>
</tr>
<tr>
<td>7</td>
<td>70 or larger</td>
</tr>
</tbody>
</table>

SLOPE
Owner: SMS_STRIP.OB
Password (Read): 
Password (Modify): 
Type: 1
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.

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

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.

STREAM_CANOPY
Owner: SMS_STRIP.OB
Password (Read): 
Password (Modify): 
Type: 1
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.

STREAM_DEPTH
Owner: SMS_STRIP.OB
Password (Read): 
Password (Modify): 

SMS 2-10
Type : X  
Length : 4  
Decimal Places : 1  
Range : 0.999  
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.

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 :  
The name of any existing stream within the boundary of the sampled site.

STREAM_WIDTH  
Owner : SMS_STRIP.DB  
Password (Read) :  
Password (Modify) :  
Type : W  
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.

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.

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 centerline, beginning at the streambank or axis of UMA.

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
A descriptive code of the sample plots with regard to water concentration or dispersion characteristics as indicated by the local 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 Ternace
8 = Broad Flat

Used to describe the physical condition of each sampled tree.

1 = Live, free?, 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 tap
5 = Snag Type 4 - Older dead, bark tight
6 = Snag Type 5 - Older dead, no bark
7 = Stump, greater than 5 years old
8 = Stump, less than 5 years old

Number of trees or stumps on the strip for an indicated size class.

Actual UMA area in acres measured at site.
UMA_LENGTH_MEASURED
Owner: SMS_GENERAL .DB
Password (Read): SHS-GENERAL.DB
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

UMA_TYPE
Owner: SMS_GENERAL_DB
Password (Read): SHS-GENERAL.DB
Password (Modify):
Type: A
Length: 2
Decimal Places: 0
Range: 
Last Documented by: RHYSYS on 8/16/90
Description:
Indicates UMA type:
B = Bog
F = Forested Wetland
UF = Upland forest

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

VEGETATION_TYPE
Owner: SMS_VEG_LIB1 .DB
Password (Read): SMS_VEG_LIB1 .DB
Password (Modify):
Type: A
Length: 2
Decimal Places: 0
Range: 
Last Documented by: SMS on 7/6/91
Description:
Vegetation type codes:
H = Herb
S = Shrub
TU = Tree - Unknown
TC = Tree - Conifer
TH = Tree - Hardwood

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

WATER_MIDPOINT
Owner: SMS_SUBPLOT .DB
Password (Read): SMS_SUBPLOT .DB
Password (Modify):
Type: X
Length: 4
Decimal Places: 1
Range: 
Last Documented by: RHYSYS on 8/16/90
Description:
Percentage of water coverage.
<table>
<thead>
<tr>
<th>Description</th>
<th>WATER_TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>SMS_GENERAL.DB</td>
</tr>
<tr>
<td>Password (Read)</td>
<td>:</td>
</tr>
<tr>
<td>Password (Modify)</td>
<td>:</td>
</tr>
<tr>
<td>Type</td>
<td>1</td>
</tr>
<tr>
<td>Length</td>
<td>1</td>
</tr>
<tr>
<td>Decimal Places</td>
<td>0</td>
</tr>
<tr>
<td>Range</td>
<td></td>
</tr>
<tr>
<td>Last Documented by</td>
<td>RMZSYS on 16/8/90</td>
</tr>
<tr>
<td>Classification code indicates water type:</td>
<td></td>
</tr>
<tr>
<td>1 =</td>
<td></td>
</tr>
<tr>
<td>2 =</td>
<td></td>
</tr>
<tr>
<td>3 =</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td></td>
</tr>
</tbody>
</table>
Section 3

Application Revision History
# Application Revision History

<table>
<thead>
<tr>
<th>Version Number</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALPHA.08.90.01.00</td>
<td>Converted free-standing Smart Data Manager 3.01 data base files to Paradox 3.0 data tables and developed prototype PAL application.</td>
</tr>
<tr>
<td>08.90.01 .01</td>
<td>Refined data tables and table relationships. Redesigned application interface. Added FIPS county code table and Herb &amp; Shrub code libraries for added data entry error trapping.</td>
</tr>
<tr>
<td>08.90.02.00/OS</td>
<td>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 OS version is packaged with Paradox 3.5 Runtime for distribution to other clients. The Add and Edit functions have been disabled in this version.</td>
</tr>
</tbody>
</table>
Section 4

Physical Data Base File Structures
Physical Database File Structures

Field Type Descriptors

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

- * Denotes Key

General.db

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Number</td>
<td>S*</td>
</tr>
<tr>
<td>Site Type</td>
<td>A1</td>
</tr>
<tr>
<td>Water Type</td>
<td>S</td>
</tr>
<tr>
<td>Substrate</td>
<td>A1</td>
</tr>
<tr>
<td>East/West</td>
<td>A1</td>
</tr>
<tr>
<td>UMA Type</td>
<td>A2</td>
</tr>
<tr>
<td>Rdate</td>
<td>D</td>
</tr>
<tr>
<td>FPA Number</td>
<td>A7</td>
</tr>
<tr>
<td>Owner Code</td>
<td>A3</td>
</tr>
<tr>
<td>Town/Range/Section</td>
<td>A2</td>
</tr>
<tr>
<td>Elevation</td>
<td>S</td>
</tr>
<tr>
<td>Stream Name</td>
<td>A30</td>
</tr>
<tr>
<td>FPA Harvest Unit Area</td>
<td>N</td>
</tr>
<tr>
<td>L00 Distance</td>
<td>S</td>
</tr>
<tr>
<td>L00 Pieces</td>
<td>S</td>
</tr>
<tr>
<td>RM7 Length Measured</td>
<td>S</td>
</tr>
<tr>
<td>FPA *MA Area</td>
<td>N</td>
</tr>
<tr>
<td>Road Distance</td>
<td>S</td>
</tr>
<tr>
<td>*MA Length Measured</td>
<td>S</td>
</tr>
<tr>
<td>Site Area Measured</td>
<td>N</td>
</tr>
</tbody>
</table>

Lod.db

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Number</td>
<td>S*</td>
</tr>
<tr>
<td>Site Type</td>
<td>A1*</td>
</tr>
<tr>
<td>Water Type</td>
<td>S*</td>
</tr>
<tr>
<td>Substrate</td>
<td>A1*</td>
</tr>
<tr>
<td>East/West</td>
<td>A1'</td>
</tr>
<tr>
<td>*MA Type</td>
<td>A2*</td>
</tr>
<tr>
<td>Entry Number</td>
<td>S*</td>
</tr>
<tr>
<td>Vegetation Type</td>
<td>A2</td>
</tr>
<tr>
<td>Length Measured</td>
<td>S</td>
</tr>
<tr>
<td>Length Estimated</td>
<td>S</td>
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<tr>
<td>Total Length</td>
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</tr>
<tr>
<td>Diameter</td>
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Strip.db

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<th>Field Name</th>
<th>Field Type</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Site Type</td>
<td>A1*</td>
</tr>
<tr>
<td>Water Type</td>
<td>S*</td>
</tr>
<tr>
<td>Substrate</td>
<td>A1'</td>
</tr>
<tr>
<td>East/West</td>
<td>A1*</td>
</tr>
<tr>
<td>UMA Type</td>
<td>A2*</td>
</tr>
<tr>
<td>Strip Number</td>
<td>A3*</td>
</tr>
<tr>
<td>Direction</td>
<td>S</td>
</tr>
<tr>
<td>Stream Canopy</td>
<td>S</td>
</tr>
<tr>
<td>Stream Width</td>
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</tr>
<tr>
<td>Stream Depth</td>
<td>N</td>
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<tr>
<td>Gradient</td>
<td>S</td>
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<td>Site Width</td>
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<tr>
<td>Azimuth</td>
<td>S</td>
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<tr>
<td>Slope</td>
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<tr>
<td>Aspect</td>
<td>S</td>
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<td>Toposite</td>
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<tr>
<td>RM2 Plant Association</td>
<td>A4</td>
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<tr>
<td>Upland Plant Association</td>
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</tr>
<tr>
<td>Final Subplot Length</td>
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### Trees.db

<table>
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<th>Field Name</th>
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<tbody>
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</tr>
<tr>
<td>Site Type</td>
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</tr>
<tr>
<td>Water Type</td>
<td>S*</td>
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<tr>
<td>Substrate</td>
<td>A1*</td>
</tr>
<tr>
<td>East/West</td>
<td>A1*</td>
</tr>
<tr>
<td>HA Type</td>
<td>A2*</td>
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<tr>
<td>strip Number</td>
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<tr>
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<tr>
<td>Tree Class</td>
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<tr>
<td>Size Class</td>
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<tr>
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### Subplot.db

<table>
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<tbody>
<tr>
<td>site Number</td>
<td>S*</td>
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<tr>
<td>Site Type</td>
<td>A1*</td>
</tr>
<tr>
<td>Water Type</td>
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<td>Substrate</td>
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<td>East/West</td>
<td>A1*</td>
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<td>HA Type</td>
<td>A2*</td>
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<tr>
<td>strip Number</td>
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<tr>
<td>canopy coverage</td>
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<tr>
<td>Shrub Coverage</td>
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<tr>
<td>Shrub Midpoint</td>
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</tr>
<tr>
<td>Forbs Coverage</td>
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</tr>
<tr>
<td>Forbs Mpoint</td>
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<tr>
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<td>DW1 Coverage</td>
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<td>DW2 Coverage</td>
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<tr>
<td>DW2 Mpoint</td>
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</tr>
<tr>
<td>DW3 Coverage</td>
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</tr>
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<td>DW3 Mpoint</td>
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</tr>
<tr>
<td>Water Coverage</td>
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<td>Water Midpoint</td>
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<td>Rock Coverage</td>
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<td>Rock Mpoint</td>
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### Dom_S&H.db

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<td>Subplot Number</td>
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<td>Class</td>
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<td>Common Name</td>
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### Veg_lib1.db

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<td>Scientific Name</td>
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### Veg_lib2.db

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### Cov_lib1.db

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<tr>
<td>Midpoint</td>
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</tbody>
</table>
Section 5

Operating Requirements
Installation
Operating Requirements

Minimum Hardware

- IBM PC/AT or compatible 80286
- 1 Mb 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 8086 CPU (XI 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 Installation 1 Diskette
- SMS/Paradox Program 1 Diskette

* Note * This application is supplied on 5 1/4" of 3 1/2" high density diskettes. Certain assumptions have been made with regard to diskette size/capacity formats and incompatibilities 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 laptop 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 attempt 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 configured as drive F: and you are using MS-DOS 3.1, you would type:
installation for systems with 3 \(1 \frac{1}{2}\) 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
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</table>
Section 7

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

CURSOR OFF
CLEAR
MESSAGE "Creating SiteProgram library, please wait..."
CANVAS OFF

Run Wrefresh "del *.lib >null"

CREATELIB "SiteProgram" 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 "ReptQuery"

PLAY "SMS1Valid"
PLAY "SMS2Valid"
PLAY "SMS3Valid"

PLAY "SMS1Vick"
PLAY "SMS2Vick"
PLAY "SMS3Vick"

PLAY "SiteSupp"

; List the contents of the library
INFLIB "SiteProgram"
QUIT "SiteProgram library created, contents listed above"

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

CLEAR
CLEARALL
autolib = "SiteProgram"
Main()
RELEASE VARS ALL
EXIT
Roosevelt McKenzie
Data Administrator
Washington Department of Wildlife
600 Capitol Way North
; 98811
; Olympia, WA 98501-1091
; (206) 753-5723

SiteMenu.sc
; SMS Main Menu Program

Proc Closed Main()
; Put up the greeting screen
AutoLib = "SiteProg"
Sitego()
While True
  Reset Clear
  ClearAll
  Canvas "0"
  Play "SMSplash"; Main menu splash screen
  AutoLib = "SiteProg"
  Splash10
  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 program"
  to sel
  Switch
    case sel = "Add":
      AutoLib = "SiteProg"
      Splash4()
      ShowMenu
       "Gen": "Enter General and LOG 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"
        Strp enter()
      case addsel = "Splot":
        AutoLib = "SiteProg"
        Splot enter()
      Otherwise: Loop
    EndSwitch
    case sel = "View":
      AutoLib = "SiteProg"
      GetB1()
    case sel = "Edit":
      AutoLib = "SiteProg"
      Splash3()
      ShowMenu
       "Gen": "Edit General and LOG 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"
        EditGenByName()
      case edsel = "Strp":
        AutoLib = "SiteProg"
        EditStrpByName()
      Case edsel = "Splot":
        AutoLib = "SiteProg"
        EditSplotByName()
      case edsel = "Veg1":
        AutoLib = "SiteProg"
        EditV1ByName()
Case edsel = "Veg2"
    Autolib = "SiteProG"
    EditV2byNum()
  Otherwise: Loop
EndSwitch

case sel = "Report":
  Run Report Menu
  Autolib = "SiteProG"
  ReptMenu()
EndSwitch

case sel = "Help":
  ShowHelp("Help");
EndSwitch

case sel = "Leave":
  "Leave": "Leave the system",
  "Return": "Go back to the Main Menu"
to subsel

Switch
    case subsel = "Leave":
      QuitLoop
EndSwitch

EndSwitch

Else:
    Loop
EndWhile

EndProc

WriteLib "SITEPROG" Main
Release Procs Main
This script contains the procedure for entering data into a multitable form for the following two tables:

- General - Master table
- LOO - One-to-Many relationship

It checks 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
MESSAGE "Loading form, Please wait"
CANVAS OFF
IF [EMPTY("General")]
    siteno = 1
ELSE
    siteno = CMAX("General","Site Number") + 1
ENDIF

MENU (Modify) (DataEntry) (General)
(Image) (Pickform) (F)
(Site Number) = siteno
MSG = ""
CANVAS ON
WHILE True
    IF NOT ISBLANK(MSG)
        BEEP SLEEP 100 BEEP SLEEP 100 BEEP
        ENDIF
    WAIT RECORD
    PROMPT "ADD RECORDS [Alt] [F2]-Save/Exit [Esc]-Cancel [F3]-General [F4]-Loo","
    MSG = ""
    UNTIL "[F3]","[F4]","[Esc]","[PgDn]","[PgUp]","End","Home","-105","-105=Alt F2"
    retkey = retkey
    MSG = ""
    tblname = TABLE()
    IF retkey = "Esc" THEN
        retprocval = GenValChecks(tblname)
        IF NOT retprocval THEN
            LOOP
    ELSE
        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 records.
            CLEAR
            MESSAGE "Saving data, Please wait"
            QUITLOOP
            CASE retkey = "F3" : MOVETO "Entry" LOOP ; Moveto general table
            CASE retkey = "F4" : MOVETO "Entry" LOOP ; Moveto lod table
        ENDIF
    ELSE
        ; Moveto general table
    ENDIF
CASE retkey = "PgDn":  
SWITCH  
CASE tblname = "Entry":  
MOVETO "Entry"
PgDn
IF ISBLANK(Site Number) THEN  
[Site Number] = siteno
siteno = siteno + 1  
ENDIF
CASE tblname = "Entry1":  
DOWN CtrlHome  
ENDSWITCH
CASE retkey = "PgUp":  
IF ATFIRST() THEN  
BEEP  
LOOP  
ENDIF
SWITCH  
CASE tblname = "Entry":  
MOVETO "Entry"
SKIP -1  
CASE tblname = "Entry1":  
SKIP -1  
ENDSWITCH  
LOOP  
OTHERWISE:
IF retkey = 15 OR retkey = -24 THEN  
BEEP
ELSE * KEYPRESS retkey  
ENDIF  
ENDSWITCH  
ENDWHILE  
CLEARALL
ENDPROC

WRITELIB "SiteProgm 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) 733-5723  
; ;******************************************************************
; ; * 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  
; ; Val (checks 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 StripEnter()
CLEAR  
CURSOR OFF
MESSAGE "Loading form, Please wait"  
IF ISEMMPTY("Strip") THEN  
siteno = 1  
ELSE  
CLEAR  
05.0 ?? "Enter Site Number for new Strip and press RETURN ((17|217):"  
STYLE REVERSE
ACCEPT "\n\nMIN 1 MAX 999999" TO siteno  
ENDIF
MENU (Modify) (DataEntry) (Strip)  
(Image) (Pickform) (F)  
[Site Number] = siteno
msg = ""
CANVAS ON
WHILE True
    IF NOT ISBLANK(msg) THEN
        BEEP 100 BEEP SLEEP 100 BEEP
        ENDIF
    WAIT RECORD
    PROMPT "ADD RECORDS [Alt](F2)-Save/Exit [Esc]-Cancel [F3]-Strip [F4]-Trees",
    "[PgDn]-New Record [PgUp]-Previous Record"
    MESSAGE msg
    UNTIL "F3", "F4", "Esc", "PgDn", "PgUp", "End", "Home", -105, 15, -24
    retkey = retval
    tblname = TABLE()
    IF retkey = "Esc" THEN
        retprocvsl = StripValChecks(tblname)
        IF NO, THEN
            LOOP
        ELSE
            SW.
            "Menu"
            "Return to Data entry",
            "Yes" : "Cancel data entry session"
            TO canceloption
            IF canceloption = "Yes" THEN
                MESSAGE "Data entry cancelled"
                CANVAS OFF
                CANCELED,
                QUIT LOOP
            ENDIF
        LOOP
    ELSE
        SHOW MENU
        "No" : "Return to Data entry",
        "Yes" : "Cancel data entry session"
        TO canceloption
        IF canceloption = "Yes" THEN
            MESSAGE "Data entry cancelled"
            CANVAS OFF
            CANCELED,
            QUIT LOOP
        ENDIF
    ENDIF
    SWITCH
        CASE retkey = -105 :
        ELSE
           retkey = retval
            tblname = TABLE()
            IF retkey <> "Esc" THEN
                retprocvsl = StripValChecks(tblname)
                IF NOT retprocvsl THEN
                    LOOP
                ELSE
                    IF MENU
                        "No" : "Return to Data entry",
                        "Yes" : "Cancel data entry session"
                        TO canceloption
                        IF canceloption = "Yes" THEN
                            MESSAGE "Data entry cancelled"
                            CANVAS OFF
                            CANCELED,
                            QUIT LOOP
                        ENDIF
                    ELSE
                        IF MENU
                            "No" : "Return to Data entry",
                            "Yes" : "Cancel data entry session"
                            TO canceloption
                            IF canceloption = "Yes" THEN
                                MESSAGE "Data entry cancelled"
                                CANVAS OFF
                                CANCELED,
                                QUIT LOOP
                            ENDIF
                        ENDIF
                    ENDIF
                ENDIF
            ELSE
                IF MENU
                    "No" : "Return to Data entry",
                    "Yes" : "Cancel data entry session"
                    TO canceloption
                    IF canceloption = "Yes" THEN
                        MESSAGE "Data entry cancelled"
                        CANVAS OFF
                        CANCELED,
                        QUIT LOOP
                    ENDIF
                ELSE
                    IF MENU
                        "No" : "Return to Data entry",
                        "Yes" : "Cancel data entry session"
                        TO canceloption
                        IF canceloption = "Yes" THEN
                            MESSAGE "Data entry cancelled"
                            CANVAS OFF
                            CANCELED,
                            QUIT LOOP
                        ENDIF
                    ENDIF
                ENDIF
            ENDIF
        CASE retkey = -24
            IF MENU
                "No" : "Return to Data entry",
                "Yes" : "Cancel data entry session"
                TO canceloption
                IF canceloption = "Yes" THEN
                    MESSAGE "Data entry cancelled"
                    CANVAS OFF
                    CANCELED,
                    QUIT LOOP
                ENDIF
            ELSE
                IF MENU
                    "No" : "Return to Data entry",
                    "Yes" : "Cancel data entry session"
                    TO canceloption
                    IF canceloption = "Yes" THEN
                        MESSAGE "Data entry cancelled"
                        CANVAS OFF
                        CANCELED,
                        QUIT LOOP
                    ENDIF
                ENDIF
            ENDIF
        CASE retkey = F2
            Alt F2 depressed save records.
        CASE retkey = F3
            Moveto strip Table.
        CASE retkey = F4
            Moveto next Table.
        CASE retkey = PgDn
            Moveto next record in files.
        CASE tblname = "Entry"
            IF MENU
                "No" : "Return to Data entry",
                "Yes" : "Cancel data entry session"
                TO canceloption
                IF canceloption = "Yes" THEN
                    MESSAGE "Data entry cancelled"
                    CANVAS OFF
                    CANCELED,
                    QUIT LOOP
                ENDIF
            ELSE
                IF MENU
                    "No" : "Return to Data entry",
                    "Yes" : "Cancel data entry session"
                    TO canceloption
                    IF canceloption = "Yes" THEN
                        MESSAGE "Data entry cancelled"
                        CANVAS OFF
                        CANCELED,
                        QUIT LOOP
                    ENDIF
                ENDIF
            ENDIF
        CASE retkey = PgUp
            Moveto previous record.
        CASE tblname = "Entry"
            SKIP -1
        CASE tblname = "Entry1"
            SKIP -1
        ENDIF
        SWITCH
            CASE retkey = F2
                Moveto strip Table.
            CASE retkey = F3
                Moveto next Table.
            CASE retkey = PgDn
                Moveto next record in files.
            CASE tblname = "Entry"
                SKIP -1
            CASE tblname = "Entry1"
                SKIP -1
            ENDIF
            LOOP
            OTHERWISE:
                IF retkey = 15 OR retkey = -24 THEN
                    Alt or Ctrl O is pressed.
                ELSE
                    KEYPRESS retkey
                ENDIF
            ENDIF
            ENDWHILE
            CLEAR ALL
            ENDPROC
            WRITELIB "SiteProg" Strip-enter
            RELEASE PROCS Strip-enter
            SMS 7-6
This script contains the procedure for entering data into a multitable form for the following three tables:
- Subplot Master table
- DsnS&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
MESSAGE "Loading form, Please wait" ; Place informational message on the screen while form is loading.
IF ISEHPTY("Subplot") THEN ; If the table is empty, set the site counter to 1
    sitemo = 1
ELSE
    CLEAR
    $5,0 ?? "Enter Site Number for new Subplot and press RETURN (!7\217): " ; Ask the user
    STYLE REVERSE
    ACCEPT "$" MIN 1 MAX 999999 TO sitemo
ENDIF

MENU (Modify) (DataEntry) (Subplot) ; Need to turn canvas on!
(Image) (Pickform) (F) ; If there is a message sound, the system bell
(Site Number) = sitemo
msg = "" ; If NOT ISBLANK(msg) THEN ; If there is a message sound, the system bell
WHILE True
    BEEP SLEEP 100 SLEEP 100 BEEP
ENDIF

WAIT RECORD
PROMPT "ADO RECORDS [Alt]([F2]-Save/Exit [Esc]-Cancel [F3]-Strip [F4]-Trees", MESSAGE msg
UNTIL "$", "F4", "F2", "F3", "PgDn", "PgUp", "End", "Home", "-105", "-15=Ctrl", "-105=AltF2" ; Keystroke codes
    retkey = retval
    msg = ""
    tblname = TABLE() ; Save the key pressed ; Blank message variable
    IF not retval THEN ; If any key except Esc is pressed, check if data is valid.
        IF not retval THEN ; If the DSC returns False ; the data did not pass the validation rule therefore do not process the key pressed.
            LOOP
    ELSE
        SHOWMENU
        "No" : "Return to Data entry", ; If the DSC returns False ; the data did not pass the validation rule therefore do not process the key pressed.
        "Yes" : "Cancel data entry session"
        TO canceloption
            IF canceloption = "Yes" THEN CLEAR
                MESSAGE "Data entry cancelled"
                CANVAS OFF
                CANCELEdit
            QUITLOOP
            LOOP
        ENDIF
    ENDIF
    SITEMO
    CASE retkey = -105 : ; Alt F2 depressed - save records.
        CLEAR
        MESSAGE "Saving data, Please wait"
        ENDIF
    ENDIF
    QUITLOOP
    CASE retkey = "F3" : MOVETO "Entry" LOOP ; Moveto subplot Table
    CASE retkey = "F4" : MOVETO "Entry!" LOOP ; Moveto domaah Table
    CASE retkey = "PgDn"
    ENDIF
CASE tblname = "Entry":
    MOVETO "Entry"
    DOWN CtrlHome
ENDSWITCH
CASE retkey = "PgUp":
    IF ATFIRST() THEN
        BEEP
        LOOP
    ENDIF
ENDSWITCH
CASE tblname = "Entry":
    MOVETO "Entry"
    SKIP -1
CASE tblname = "Entry1":
    SKIP -1
ENDSWITCH
LOOP
OTHERWISE:
    IF retkey = 15 OR retkey = -24 THEN
        BEEP
    ELSE
        KEYPRESS retkey
    ENDIF
ENDSWITCH
ENDWHILE
CLEARALL
ENDDOC

WRITELIB "SiteProg" Subplot_enter
RELEASE PROC$ Subplot_enter
This script contains the procedures for editing data in a multitable form for the following two tables:

- General + Master table
- One-to-Many relationship

Although new LDO records may be entered, no provision is made for error or validity checking (see SMS#VALU.SC and SMS#VLCI.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 "$" Min 1 Max 999999 TO sitenum
STYLE
IF retval = False THEN
RETURN False
ELSE
IF ISBLANK(sitenum) THEN
MOVE TO "General"
WHILE True
WAIT TABLE
PROMPT "Move cursor to Site to select",
[F2]-Select [Esc]-Cancel
UNTIL "F2","Esc","DOS","DDBIG","ZOOM","ZOOMNEXT"
SWITCH
CASE retval = "F2" : sitenum = [Site Number] QUITLOOP
CASE retval = "Esc" : sitenum = False QUITLOOP
OTHERWISE : BEEP
ENDSWITCH
ENDWHILE
ENDIF
RETURN sitenum
ENDPROC

WriteLib "SiteProg" GetGenNum
Release Proc GetGenNum

PROC EditGenByNum()
PRIVATE sitenum, anyrcdflag
;
; Variable variables:
; sitenum = site number to edit
; anyrcdflag = flag to indicate if any records were found in scan
;
VIEW "General"
sitenum = GetGenNum()
GET number of site to edit
CLEAR
IF sitenum = False THEN
MESSAGE "No site selected"
SLEEP 3000
ELSE
MESSAGE "Selecting records for Site number ", sitenum, ", please wait..."
CODE, "General"
MENU (Image) (Pickform) (F)
anyrcdflag = 1
SCAN FOR Site Number = sitenum
anyrcdflag = 0
WHILE True
Set flag to indicate at least 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","-10S","DOS","DDBIG","ZOOM","ZOOMNEXT","F9","Del"
SWITCH
CASE retval = +F3" : DOWNIMAGE LOOP
CASE retval = +F9" : Insert new record
SWITCH
CASE TABLE() = "Lod":
MakeRec()
LOOP
ENDSWITCH

---

SMS 7-9
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
ENDIF
IF retval = -105 THEN
  QUITLOOP
ENDIF
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!
ENDF
ENDPROC

WriteLib "SiteProg" EditGenByNum
Release Proc's EditGenByNum

; SMS2Edit.SC

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; 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 SMS2VALD.SC and SMS2VLCK.SC).

PROC GetStrpNum(
PRIVATE sitenum
  CLEAR
  sitenum = 0
  ! See "Site Number or Press ENTER (11)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
        ENDWILE
      ENDIF
      RETURN sitenum
    ENDPROC

SMS 7-10
PROC EditStripByNum()
PRIVATE sitenum, anycrdflag
; Private variables:
; sitenum - site number to edit
; anycrdflag - flag to indicate if any records where found in scan

VIEW "Strip"
sitenum = GetStripNum() : 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..."
  CODIT "Strip"
  MENU (Image) {Pickform} (F)
  anycrdflag = 1
  SCAN FOR [Site Number] - sitenum
  anycrdflag = 0 : Set flag to indicate at least one record exists
  WHILE True
    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","OSB10","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 anycrdflag = 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" GetStripNum
Release Proc GetStripNum
This script contains the procedures for editing data in a multitable form
for the following two tables:

- Subplot - "aster 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

? 3,0 ?? "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
            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
    RETURN sitenum
    ENDPROC

WriteLib "SiteProg" GetSplotNum
Release Proc GetSplotNum

**PROC EditSplotByNum()**

PRIVATE sitenum, anyrcdflag

PRIVATE variables:

- sitenum - site number to edit
- anyrcdflag - flag to indicate if any records were found in scan

VIEW "Subplot"

sitemun = GetSplotNum() ; Get number of site to edit

IF sitenum = False THEN
    MESSAGE "No RMZ/UMA site selected"
    SLEEP 3000
ELSE
    MESSAGE "Selecting records for Site number ", sitenum, ", please wait..."
    EDIT "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
        PROMPT "Edit record [Alt][F2]-Save/Exit [F3]-Next Table [F9]-Insert Rec-d",
            "[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
ENDWHILE
IF anyrcdflag = 1 THEN ; If not records matched sitenum
  MESSAGE "No records for Site Number ", sitenum,"."
ELSE
  MESSAGE "Editing complete"
ENDIF
SLEEP 3000
ENDIF
ENDDO
RETURN codename
ENOPROC

WriteLib "SiteProg" EditspotByNum
Release Proc EditspotByNum

VegEdit.SC

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; This script contains the procedures for editing records in a custom farm
; 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
STILE
IF retval = False THEN
  RETURN False
ELSE
  IF ISBLANK(codename) THEN
    MOVE1 "Veg_Lib1" "TABLE
    WHILE True
      WAIT TABLE
      PROMPT "Move cursor to Vegetation Code to select", "(F2)=Select [Esc]=Cancel"
      UNTIL "F2", "Esc", "DBS", "DBSBG", "ZOOM", "ZOOMNEXT"
    SWITCH
      CASE retval = "F2" : codename = [Code Name] QUITLOOP
      CASE retval = "Esc" : codename = False QUITLOOP
      OTHERWISE : BEEP
    ENDSWITCH
  ENDDO
ENDIF
ENIF
RETURN codename
ENOPROC

WriteLib "SiteProg" GetV1CodeName
Release Proc GetV1CodeName

SMS 7-13
PROC EditV1ByNum()
PRIVATE codename, anyrcdflag

; Private variables:
; codename - code name to edit
; anyrcdflag - flag to indicate if any records were found in scan

VIEW "Veg Lib!
 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 Lib!
anyrcdflag = 1
SCAN FOR [Code Name] = codename
anyrcdflag = 0 ; Set flag to indicate at least one record exists
WHILE True
WAI
RECORD
PROMPT "Edit record [Alt][F2]-Save/Exit [F9]-Insert Record",
"[PdOn]-Next Record [PdUp]-Previous Record [Del]-Delete Record"

CASE retval = "F9" :
MakeRec()
LOOP
CASE retval = "Del" :
KillRec()
LOOP
CASE retval = "PdUp" :
SKIP -1
LOOP
CASE retval = "PdOn" :
SKIP 1
LOOP
CASE retval = "105" :
QUITLOOP
OTHERWISE :
BEEP
ENDSWITCH
ENDWHILE
IF retval = -105 THEN
QUITLOOP
ENDIF
ENDIF
ENDIF
SCAN FOR [Code Name] = codename
MESSAGE "No records for Vegetation Code ", codename, "."
ELSE
MESSAGE "Editing complete"
ENDIF
SLEEP 3000
DO IT!
ENDIF
ENDPROC

WriteLib "SiteProps" EditV1ByNum
Release Proc EditV1ByNum
ACCEPT "A5" TO codenun

STYLE
IF retval = false THEN
RETURN False
ELSE
IF ISBLANK(codenum) THEN
wrongTo "Veg_lib2"
WTR WHILE
PROMPT "Move cursor to Tree Code to select",
"[F2]-Select [Esc]-Cancel"
UNTIL "F2", "Esc", "DOS", "DOSBIG", "ZOOM", "ZOOMNEXT"
SWITCH
CASE retval = "F2" : codenun = [Code Number] QUITLOOP
CASE retval = "Esc" : codenun = False QUITLOOP
OTHERWISE : BEEP
ENDSWITCH
ENDWHILE
ENDIF
ENDIF
RETURN codenun
ENDPROC

WriteLib "SiteProg".GetV2CodeNum
Release Proc GetV2CodeNum

PROC EditV2ByNum()
PRIVATE codenun, anyrcdflag

; Private variables:
; codenun - code number to edit
; anyrcdflag - flag to indicate if any records were found in scan

VIEW "Veg_lib2"
codenun = GetV2CodeNum(); Get tree code to edit
CLEAR
IF codenun = False THEN
MESSAGE "No Tree code selected"
SLEEP 3000
ELSE
MESSAGE "Selecting record for Tree Code ", codenun, ", please wait..."
CODEDIT "Veg_lib2"
MENU {Image} {Pickform} {F}
anyrcdflag = 1
SCAN FOR [Code Number] = codenun
anyrcdflag = 0
set flag to indicate at least one record exists
WTR WHILE True
PROMPT "Edit record [Alt][F6]-Save/Exit [F9]-Insert Record",
[F6]-Delete Record"
UNTIL "F6", "F9", "F9", "PgUp", "PgDn", "-105", "DOS", "DOSBIG", "ZOOM", "ZOOMNEXT", "F9", "Del"
SWITCH
CASE retval = "F6" :
MakeRec() LOOP
CASE retval = "Del" :
KillRec() LOOP
CASE retval = "PgUp" :
SKIP -1 LOOP
CASE retval = "PgDn" :
SKIP 1 LOOP
CASE retval = -105 : QUITLOOP
OTHERWISE : BEEP
ENDSWITCH
ENDWHILE
IF retval = -105 THEN
QUITLOOP
ENDIF
ENDSCAN
IF anyrcdflag = 1 THEN
MESSAGE "No records for Tree Code Number ", codenun, 
ELSE
MESSAGE "Editing complete"
ENDIF
SLEEP 3000
DOWHILE
ENDIF
ENDPROC

WriteLib "SiteProg".EditV2ByNum
Release Proc EditV2ByNum

SMS 7-15
; SiteView.SC
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; PROC GetTbl()
cursor Off
ViewlistsMenu()
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 Proc 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 in the workspace.
      WAIT TABLE
      PROMPT "Viewing Single Table   [F2]-Exit",
      "[F7]-Form/Table View Toggle"
      UNTIL "F7"; "F2"; "F10"; "DOS"; "DOS816"; "ZOOM"; "ZOOMNEXT"
   ELSE
      WAIT TABLE
      PROMPT "Viewing Table num
      of ", STRVAL(nimofimages),
      "[F2]-Exit  [F3]-Next Table  [F4]-Previous Table 
      [F7]-Form/Table View Toggle"
      UNTIL "F3"; "F4"; "F10"; "F7"; "F2"; "DOS"; "DOS816"; "ZOOM"; "ZOOMNEXT"
   ENDIF
SWITCH
   CASE retval = "F2" : UPIMAGE LOOP
   CASE retval = "F3" : DOWNIMAGE LOOP
   CASE retval = "F4" : FORMKEY LOOP
   CASE retval = "F7" : QUITLOOP
   OTHERWISE : BEEP LOOP
ENDSWITCH
ENDWHILE
CLEARALL
CLEAR
RETURN
EndProc

WriteLib "SiteProg" ViewTbls
Release Proc ViewTbls

; PROC ViewListsMenu()
PRIVATE tliname
; PLAY "Smwsplos"
Splash2()
ShowMenu
   "Gen" : "View General/LOD table",
   "Strp" : "View Strip/Tree table",
   "Splot" : "View Subplot/Homey table",
   "Veg1" : "View Shrub/Common Library table",
   "Veg2" : "View Tree Library table",
   "Return" : "Return to Main Menu"
TO selview
SWITCH
   case selview = "Gen" :
      tliname = "General"
   case selview = "Strp" :
      tliname = "Strip"
   case selview = "Splot" :
tbnname = "Subplot"
\[\text{case selview} = "Veg1" :\]
  tbnname = "Veg_1b1"
\[\text{case selview} = "Veg2" :\]
  tbnname = "Veg_2b1"
\[\text{case selview} = "Return" :}\]
  tbnname = "None"
\[\text{Otherwise :}\]
  BEEP
  tbnname = "None"
ENDSWITCH

IF tbnname ≠ "one" THEN
  \[; \text{If there are no tables}\]
  RETURN "None"
ELSE
  \[; \text{selected, return none,}\]
  MESSAGE "Loading ", tbnname
  \[; \text{Otherwise, view the table and}\]
  VIEW tbnname
  \[; \text{return the table name.}\]
  RETURN tbnname
ENDIF
ENDPROC

WriteLib "SiteFrog" ViewTblsMenu
Release Procs ViewTblsMenu
; ReptMenu.SC

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

    ShowMenu
        "Gen": "Select and print RMZ/UMA General Site data",
        "L0D": "Select and print RMZ/UMA LOD data",
        "Strip": "Select and print RMZ/UMA Strip data",
        "Tree": "Select and print RMZ/UMA Tree data",
        "SubPlot": "Select and print RMZ/UMA Subplot data",
        "Dom_Shr": "Select and print RMZ/UMA Dominant Shrub & Herb data",
        "Leave": "Return to the Main Menu"

to repsel
    Switch case repsel = "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 case repsel = "Gen1":
            Autolib = "SiteProg"
            GenRept1()
            tablename = "Genf1"
            reptnum = 1
            HardCopy()
            MENU (Tools) (More) (Empty) (Genf1) (OK)
            ClearAll
        Case repsel = "Gen2":
            Autolib = "SiteProg"
            GenRept2()
            tablename = "Genf2"
            reptnum = 1
            HardCopy()
            MENU (Tools) (More) (Empty) (Genf2) (OK)
            ClearAll
        Case repsel = "Gen3":
            Autolib = "SiteProg"
            GenRept3()
            tablename = "Genf3"
            reptnum = 1
            HardCopy()
            MENU (Tools) (More) (Empty) (Genf3) (OK)
            ClearAll
        Case repsel = "Gen4":
            Autolib = "SiteProg"
            GenRept4()
            tablename = "Genf4"
            reptnum = 1
            HardCopy()
            MENU (Tools) (More) (Empty) (Genf4) (OK)
            ClearAll
        Otherwise: Loop
    EndSwitch

    case repsel = "L0D":
        Autolib = "SiteProg"
        R_Splash3()
        ShowMenu
            "L0D1": "Print Eastside RMZ Site LOD averages",
            "L0D2": "Print Westside RMZ Site LOD averages",
            "Return": "Go back to the Report Menu"

    To repsel
        Switch case repsel = "L0D":
            Autolib = "SiteProg"
            R_Splash4()
            ShowMenu
            "L0D1": "Print Eastside RMZ Site LOD averages",
            "L0D2": "Print Westside RMZ Site LOD averages",
            "Return": "Go back to the Report Menu"

        Otherwise: Loop
    EndSwitch
Case repsel = "LOD1"
  AutoLib = "SiteProg"
  LODRep1()
  tablename = "Lodf1"
  repnum = 1
  HardCopy()
  MENU (Tools) (More) (Empty) (Lodf1) (OK)
  ClearAll
EndSwitch

Case repsel = "LOD2"
  AutoLib = "SiteProg"
  LODRep2()
  tablename = "Lodf2"
  repnum = 1
  HardCopy()
  MENU (Tools) (More) (Empty) (Lodf2) (OK)
  ClearAll
EndSwitch

Otherwise: Loop
EndSwitch

case repsel = "Strip":
  AutoLib = "SiteProg"
  &Splash4()
  ShowMenu
  "Strip1": "Print Eastside HA averages by type",
  "Strip2": "Print Westside HA averages by type",
  "Strip3": "Print Eastside RM2 averages by type",
  "Strip4": "Print Westside RM2 averages by type",
  "Return": "Go back to the Report Menu"
To repsel
  Switch
  Case repsel = "Strip1"
  AutoLib = "SiteProg"
  StripRep1()
  tablename = "Stripf1"
  repnum = 1
  HardCopy()
  NEW (Tools) (More) (Empty) (Stripf1) (OK)
  ClearAll
  Case repsel = "Strip2"
  AutoLib = "SiteProg"
  StripRep2()
  tablename = "Stripf2"
  repnum = 1
  HardCopy()
  MENU (Tools) (More) (Empty) (Stripf2) (OK)
  ClearAll
  Case repsel = "Strip3"
  AutoLib = "SiteProg"
  StripRep3()
  tablename = "Stripf3"
  repnum = 1
  HardCopy()
  MENU (Tools) (More) (Empty) (Stripf3) (OK)
  ClearAll
  Case repsel = "Strip4"
  AutoLib = "SiteProg"
  StripRep4()
  tablename = "Stripf4"
  repnum = 1
  HardCopy()
  MENU (Tools) (More) (Empty) (Stripf4) (OK)
  ClearAll
Otherwise: Loop
EndSwitch

case repsel = "Trees":
  AutoLib = "SiteProg"
  &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 RM2 live tree count by Water type, Substrate, Tree Type and Name",
  "Tree6": "Print Westside RM2 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 repel Switch

Case repsel = "Tree1":
  Autolib = "SiteProg"
  TreeRept1()
  tablename = "Tree1"
  reptnum = 1
  HardCopy() "EN" (Tools) (More) (Empty) (Tree1) (OK)
  ClearAll

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

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

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

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

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

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

Otherwise: Loop
EndSwitch

case repsel = "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 repel Switch

case repsel = "Subplot1":
  Autolib = "SiteProg"
  SubplotRept1()
  tablename = "Subplot1"
  reptnum = 1
  HardCopy()
MENU (Tools) (More) (Empty) (Splotf1) (OK)
ClearAll

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

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

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

Otherwise: Loop
EndSwitch

case repsel = "DomSHH":
  Autolib = "SiteProg"
  & Splash7()
  Menu:
  "DomSHH": "Print Eastside UMA dominant herb & shrub midpoint averages by name",
  "DomSHH2": "Print Westside UMA dominant herb & shrub midpoint averages by name",
  "DomSHH3": "Print Eastside RH2 dominant herb & shrub midpoint averages by name",
  "DomSHH4": "Print Westside RHZ dominant herb & shrub midpoint averages by name",
  "Return": "Go back to the Report Menu"
To repsel
Switch
  Case repsel = "DomSHH1": ; Domsh01 Domshf1 1
    Autolib = "SiteProg"
    DomSHRept1()
    tablename = "Domshf1"
    repnum = 1
    HardCopy()
    MENU (Tools) (More) (Empty) (Domshf1) (OK)
    ClearAll

  Case repsel = "DomSHH2": ; Domsh02 Domshf2 1
    Autolib = "SiteProg"
    DomSHRept2()
    tablename = "Domshf2"
    repnum = 1
    HardCopy()
    MENU (Tools) (More) (Empty) (Domshf2) (OK)
    ClearAll

  Case repsel = "DomSHH3": ; Domsh03 Domshf3 1
    Autolib = "SiteProg"
    DomSHRept3()
    tablename = "Domshf3"
    repnum = 1
    HardCopy()
    MENU (Tools) (More) (Empty) (Domshf3) (OK)
    ClearAll

  Case repsel = "DomSHH4": ; Domsh04 Domshf4 1
    Autolib = "SiteProg"
    DomSHRept4()
    tablename = "Domshf4"
    repnum = 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

; ReptQuery.SC

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(206) 753-5723

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

Proc GenRept1()

Query

<table>
<thead>
<tr>
<th>General</th>
<th>Site Number</th>
<th>Site Type</th>
<th>East/West</th>
<th>UMA Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Check U</td>
<td>Check E</td>
<td>Check B OR FW OR UF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th>FPA Number</th>
<th>Owner Code</th>
<th>Town/Range/Section</th>
<th>Stream Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th>FPA Harvest Unit Area</th>
<th>FPA UMA Area</th>
<th>&quot;MA Length Measured&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th>Site Area Measured</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

EndQuery

Do_It! ; Execute the query.

; Move the data to the correct data file.
MENU (Rolls) (More) (Add) (Answer) (GenQ1)

EndProc
WriteLib "SiteProg" GenRept1
Release Procs GenRept1

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

Proc GenRept2()

Query

<table>
<thead>
<tr>
<th>General</th>
<th>Site Number</th>
<th>Site Type</th>
<th>East/West</th>
<th>UMA Type OR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Check</td>
<td>Check W</td>
<td>Check B OR FW OR UF</td>
</tr>
</tbody>
</table>

SMS 7-22
<table>
<thead>
<tr>
<th>General</th>
<th>FPA Number</th>
<th>Owner Code</th>
<th>Town/Range/Section</th>
<th>Stream Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th>FPA Harvest Unit Area</th>
<th>FPA Length Measured</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
<td>Check</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th>Site Area Measured</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
</tr>
</tbody>
</table>

Endquery

Do_It! ; Execute the query.

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

EndProc
Writelib "SiteProp" GenRept2
Release Proc GenRept2

; **************************************************************
Proc GenRept3()

Query

<table>
<thead>
<tr>
<th>General</th>
<th>Site Number</th>
<th>Site Type L OR R</th>
<th>Water Type</th>
<th>Substrate</th>
<th>East/West</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th>FPA Number</th>
<th>Owner Code</th>
<th>Town/Range/Section</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th>Stream Name</th>
<th>FPA Harvest Unit Area</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
<td>Check</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th>Site Area Measured</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
</tr>
</tbody>
</table>

Endquery

Do_It! ; Execute the query.

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

EndProc
Writelib "SiteProp" GenRept3
Release Proc GenRept3

; **************************************************************
Proc GenRept4()

Query

<table>
<thead>
<tr>
<th>General</th>
<th>Site Number</th>
<th>Site Type L OR R</th>
<th>Water Type</th>
<th>Substrate</th>
<th>East/West</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
<td>Check W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th>FPA Number</th>
<th>Owner Code</th>
<th>Town/Range/Section</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th>Stream Name</th>
<th>FPA Harvest Unit Area</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
<td>Check</td>
</tr>
</tbody>
</table>

SMS 7-23
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 Proc GenRept4

; *************************************************************
; LOQ Table Queries
; *************************************************************

Proc LOQRept1()

Query

<table>
<thead>
<tr>
<th>Lod</th>
<th>Site Type</th>
<th>Water Type</th>
<th>Substrate</th>
<th>East/West</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L or R</td>
<td>Check</td>
<td>Check</td>
<td>E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lod</th>
<th>Vegetation Type</th>
<th>Length Measured</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
<td>calc average as Avg Length Out (feet)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lod</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>calc average as Avg Diameter (inches)</td>
</tr>
</tbody>
</table>

Endquery

Do_It! ; Execute the query.

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

EndProc
Writelib "SiteProg" LOQRept1
Release Proc LOQRept1

; *************************************************************
; LOQ Table Queries
; *************************************************************

Proc LOQRept2()

Query

<table>
<thead>
<tr>
<th>Lod</th>
<th>Site Type</th>
<th>Water Type</th>
<th>Substrate</th>
<th>East/West</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L or R</td>
<td>Check</td>
<td>Check</td>
<td>W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lod</th>
<th>Vegetation Type</th>
<th>Length Measured</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check</td>
<td>calc average as Avg Length Out (feet)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lod</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>calc average as Avg Diameter (inches)</td>
</tr>
</tbody>
</table>

Endquery

Do_It! ; Execute the query.

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

EndProc
Writelib "SiteProg" LOQRept2
Release Proc LOQRept2

******************************************************************************
Strip Table Queries
******************************************************************************
Proc StripRept1()
Query

<table>
<thead>
<tr>
<th>Strip</th>
<th>Site Type</th>
<th>East/West</th>
<th>UMA Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Check E</td>
<td>Check B OR FW OR UF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strip</th>
<th>Stream Canopy</th>
<th>calc average as Avg Canopy</th>
<th>Stream Width</th>
<th>calc average as Avg Stream Width</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strip</th>
<th>Stream Depth</th>
<th>calc average as Avg Stream Depth</th>
<th>Gradient</th>
<th>calc average as Avg Gradient</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strip</th>
<th>Site Width</th>
<th>calc average as Avg RZ Width</th>
<th>Slope</th>
<th>calc average as Avg Slope</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Endquery

Do It! ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Strip1)

EndProc
WriteLib "SiteProg" StripRept1
Release Proc StripRept1

---------------------------------------------------------------------

Proc StripRept2()
Query

<table>
<thead>
<tr>
<th>Strip</th>
<th>Site Type</th>
<th>East/West</th>
<th>UMA Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Check W</td>
<td>Check B OR FW OR UF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strip</th>
<th>Stream Canopy</th>
<th>calc average as Avg Canopy</th>
<th>Stream Width</th>
<th>calc average as Avg Stream Width</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strip</th>
<th>Stream Depth</th>
<th>calc average as Avg Stream Depth</th>
<th>Gradient</th>
<th>calc average as Avg Gradient</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strip</th>
<th>Site Width</th>
<th>calc average as Avg RZ Width</th>
<th>Slope</th>
<th>calc average as Avg Slope</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Endquery

Do It! ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Strip2)

EndProc
WriteLib "SiteProg" StripRept2
Release Proc StripRept2

---------------------------------------------------------------------

Proc StripRept3()
Query

Strip | Site Type | Water Type | Substrate | East/West |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L or R</td>
<td>Check</td>
<td>Check</td>
<td>E</td>
</tr>
</tbody>
</table>

Strip | Stream Canopy | Stream Width |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>calc average as Avg Canopy</td>
<td>calc average as Avg Stream Width</td>
<td></td>
</tr>
</tbody>
</table>

Strip | Stream Depth | Gradient |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>calc average as Avg Stream Depth</td>
<td>calc average as Avg Gradient</td>
<td></td>
</tr>
</tbody>
</table>

Strip | Site Width | Slope |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>calc average as Avg RZ Width</td>
<td>calc average as Avg Slope</td>
<td></td>
</tr>
</tbody>
</table>

Endquery

Do_It! ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (StripRept3)

EndProc
Writelog "SiteProgs" StripRept3
Release Procs StripRept3

; ********************************************
Proc StripRept4()

Query

Strip | Site Type | Water Type | Substrate | East/West |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L or R</td>
<td>Check</td>
<td>Check</td>
<td>E</td>
</tr>
</tbody>
</table>

Strip | Stream Canopy | Stream Width |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>calc average as Avg canopy</td>
<td>calc average as Avg Stream Width</td>
<td></td>
</tr>
</tbody>
</table>

Strip | Stream Depth | Gradient |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>calc average as Avg Stream Depth</td>
<td>calc average as Avg Gradient</td>
<td></td>
</tr>
</tbody>
</table>

Strip | Site Width | Slope |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>calc average as Avg RZ Width</td>
<td>calc average as Avg Slope</td>
<td></td>
</tr>
</tbody>
</table>

Endquery

Do_It! ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (StripRept4)

EndProc
Writelog "SiteProgs" StripRept4
Release Procs StripRept4

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

Proc TreeRept1()
Query

<table>
<thead>
<tr>
<th>Trees</th>
<th>East/West</th>
<th>Tree Class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check E or W</td>
<td>1 or 3 or 4</td>
</tr>
</tbody>
</table>

Endquery

Do_it! ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Tree1)

EndProc
WriteLib "SiteProg" TreeRept1
Release Procs TreeRept1

Proc TreeRept2()

Query

<table>
<thead>
<tr>
<th>Trees</th>
<th>East/West</th>
<th>Tree Class</th>
<th>Size Class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check E or W</td>
<td>1 or 3 or 4</td>
<td>Check 1 or 2 or 3 or 4 or 5 or 6 or 7</td>
</tr>
</tbody>
</table>

Endquery

Do_it! ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Tree2)

EndProc
WriteLib "SiteProg" TreeRept2
Release Procs TreeRept2

Proc TreeRept3()

Query

<table>
<thead>
<tr>
<th>Trees</th>
<th>UMA Type</th>
<th>Tree Class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check E</td>
<td>1 or 3 or 4</td>
</tr>
</tbody>
</table>

Endquery

Do_it! ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Tree3)

EndProc
WriteLib "SiteProg" TreeRept3
Release Procs TreeRept3

Proc TreeRept4()
<table>
<thead>
<tr>
<th>Trees</th>
<th>Vegetation Type</th>
<th>Common Name</th>
<th>Tree Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>check</td>
<td>check</td>
<td></td>
<td>calc sum as Total Trees</td>
</tr>
</tbody>
</table>

Endquery

Do_It! ; Execute the query.

Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Tree4)

ENDProc

WriteLib "SiteProg" TreeRept4
Release Procs TreeRept4

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

Proc TreeRept5()

Query

<table>
<thead>
<tr>
<th>Trees</th>
<th>Water Type</th>
<th>Substrate</th>
<th>East/West</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>check 1 or 2 or 3</td>
<td>check</td>
<td>E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trees</th>
<th>Tree Class</th>
<th>Vegetation Type</th>
<th>Common Name</th>
<th>Tree Count</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 or 3 or 4</td>
<td>check</td>
<td></td>
<td>calc sum as Total Trees</td>
</tr>
</tbody>
</table>

Endquery

Do_It! ; Execute the query.

Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Tree5)

ENDProc

WriteLib "SiteProg" TreeRept5
Release Procs TreeRept5

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

Proc TreeRept6()

Query

<table>
<thead>
<tr>
<th>Trees</th>
<th>Site Type</th>
<th>Water Type</th>
<th>Substrate</th>
<th>East/West</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L or R</td>
<td>check 1 or 2 or 3</td>
<td>check</td>
<td>W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trees</th>
<th>Tree Class</th>
<th>Vegetation Type</th>
<th>Common Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 or 3 or 4</td>
<td>check</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trees</th>
<th>Tree Count</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>calc sum as Total Trees</td>
</tr>
</tbody>
</table>

Endquery

Do_It! ; Execute the query.

Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Tree6)

ENDProc

WriteLib "SiteProg" TreeRept6
Release Procs TreeRept6

Proc TreeRept7()

Query

<table>
<thead>
<tr>
<th>Trees</th>
<th>East/West</th>
<th>Tree Class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>check E or W</td>
<td>2 or 5 or 6 or B or R or S</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trees</th>
<th>Vegetation Type</th>
<th>Common Name</th>
<th>Tree Count</th>
</tr>
</thead>
</table>
Endquery

Do_It! ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Treef7)

EndProc
WriteLib "siteprog" treekeep7
Release Proc 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 | Gaminoid Midpoint | calc average as Avg Forbs Cover calc average as Avg Gaminoid 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 Proc SubplotRept1

; **********************************************************************************************
; Subplot Table Queries
; **********************************************************************************************
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 | Gaminoid Midpoint | calc average as Avg Forbs Cover calc average as Avg Gaminoid Cover

SMS 7-29
Subplot | DW1 Midpoint Calc average as Avg DW1 Cover | DW2 Midpoint Calc average as Avg DW2 Cover |
---|---|---|
Subplot | DW3 Midpoint Calc average as Avg DW3 Cover | Water Midpoint Calc average as Avg Water Cover |
Subplot | Rock Midpoint Calc average as Avg Rock Cover | Soil Midpoint 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 | calc count all as Number of Subplots | calc average as Avg Canopy Cover |
Subplot | Shrub Midpoint Calc average as Avg Shrub Cover | Forbs Midpoint Calc average as Avg Forbs cover |
Subplot | Graminoid Midpoint Calc average as Avg Graminoid Cover | DW1 Midpoint Calc average as Avg DW1 Cover |
Subplot | DW2 Midpoint Calc average as Avg DW2 Cover | DW3 Midpoint Calc average as Avg DW3 Cover |
Subplot | Water Midpoint Calc average as Avg Water Cover | Rock Midpoint Calc average as Avg Rock Cover |
Subplot | Soil Midpoint Calc average as Avg Soil Cover | 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) (Splotf3)

EndProc
WriteLib "SiteProg" SubplotRept3
Release Procs SubplotRept3

SMS 7-30
Proc SubplotRept4()

Query

<table>
<thead>
<tr>
<th>Subplot</th>
<th>Site Type</th>
<th>Water Type</th>
<th>Substrate</th>
<th>East/West</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>L or R</td>
<td>Check</td>
<td>Check</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subplot</th>
<th>Subplot Number</th>
<th>Canopy Coverage Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>calc count all as Number of Subplots</td>
<td>calc average as Avg Canopy Cover</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subplot</th>
<th>Shrub Midpoint</th>
<th>Forbs Midpoint</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>calc average as Avg Shrub Cover</td>
<td>calc average as Avg Forbs Cover</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subplot</th>
<th>Graminoid Midpoint</th>
<th>DW1 Midpoint</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>calc average as Avg Graminoid Cover</td>
<td>calc average as Avg DW1 Cover</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subplot</th>
<th>DW2 Midpoint</th>
<th>DW3 Midpoint</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>calc average as Avg DW2 Cover</td>
<td>calc average as Avg DW3 Cover</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subplot</th>
<th>Water Midpoint</th>
<th>Rock Midpoint</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>calc average as Avg Water Cover</td>
<td>calc average as Avg Rock Cover</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subplot</th>
<th>Soil Midpoint</th>
<th>OGC Midpoint</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>calc average as Avg Soil Cover</td>
<td>calc average as Avg OGC Cover</td>
</tr>
</tbody>
</table>

Endquery

Do_It! ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Splotf4)

EndProc "SiteProg" SubplotRept4
Release Procs SubplotRept4

***********************************************************************************************************************************************
; Dominant Herb & Shrub Table Queries
Proc DomSHRept4()

Query

<table>
<thead>
<tr>
<th>General</th>
<th>Site Number</th>
<th>Site Type</th>
<th>East/West</th>
<th>UMA Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>_sitenum</td>
<td></td>
<td>U</td>
<td>E</td>
<td>Check</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dom_s&amp;h</th>
<th>Site Number</th>
<th>Class</th>
<th>Vegetation Type</th>
<th>Common Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>_sitenum</td>
<td></td>
<td>Check</td>
<td>Check</td>
<td>Check</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dom_s&amp;h</th>
<th>Midpoint</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>calc average as Avg Cover, calc count as Number Of Subplots</td>
</tr>
</tbody>
</table>

Endquery

Do_It! ; Execute the query.

; Move the data to the correct data file.
MENU (Tools) (More) (Add) (Answer) (Domshf4)
EndProc
WriteLib "SiteProg" DomSHRept1
Release Proc DomSHRept1

Proc DomSHRept2()

Query

<table>
<thead>
<tr>
<th>General</th>
<th>Site Number sipenum</th>
<th>Site Type</th>
<th>East/West</th>
<th>UMA Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 Proc DomSHRept2

Proc DomSHRept3()

Query

<table>
<thead>
<tr>
<th>General</th>
<th>Site Number sipenum</th>
<th>Site Type</th>
<th>Water Type</th>
<th>Substrate</th>
<th>East/West</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 Proc DomSHRept3

Proc DomSHRept4()

Query

<table>
<thead>
<tr>
<th>General</th>
<th>Site Number sipenum</th>
<th>Site Type</th>
<th>Water Type</th>
<th>Substrate</th>
<th>East/West</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SMS 7-32
General

<table>
<thead>
<tr>
<th>Dom_sah</th>
<th>Site Number</th>
<th>Class</th>
<th>Vegetation Type</th>
<th>Common Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>_site_num</td>
<td>_check</td>
<td>_check</td>
<td>_check</td>
</tr>
</tbody>
</table>

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 printstatus() = false then
    CURSOR OFF
    STYLE ATTRIBUTE (MENUCOLOR+128)
    g24,0 Clear EOL ?? format("AC,W80","PRINTER NOT READY ...")
    style Attribute MENUCOLOR
    CURSOR NORMAL
    beep
  endif

  STYLE ATTRIBUTE (MENUCOLOR+128)
  g24,0 Clear EOL ?? format("AC,W79","PRINTING REPORT")
  REPORT tablename reptnum
  g24,0 Clear EOL

case sel = "Screen": Menu (Report)(OutPut) select tablenamename
                    select reptnum select sel
                    CURSOR OFF
                    style attribute menucolor=128
                    g24,0 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
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

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

SMS 7-34
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

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Olympia, WA 98504
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; This script contains the PROCs used for the validation rules on each table.
; A separate procedure is used for each table.

; ***********************
; * RqdRulesSubplot 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 RqdRulesSubplot()
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" RqdRulesSubplot
RELEASE PROCs RqdRulesSubplot

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

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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

WRTLIB "SiteProg" RqdRulesDSH
RELEASE PROC RqdRulesDSH
; SHSZVLCK.SC  Validity Checks script

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600 Capitol Way North
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Olympia, WA 98501-1091
(206) 753-5723

; Processes the validation required for the General and LOO tables

PROC GenValChecks(tblname)
PRIVATE retprocval
SWITCH
CASE tblname = "Entry" OR tblname = "Genera," : ; General table
    retprocval = RqdRulesGen()
    RETURN retprocval
CASE tblname = "General" : ; General table
    retprocval = RqdRulesGen()
    RETURN retprocval
CASE tblname = "Entry," : ; LOO pseudo table
    retprocval = RqdRulesLOO()
    RETURN retprocval
CASE tblname = "LOO" : ; LOO table
    retprocval = RqdRulesLOO()
    RETURN retprocval
OTHERWISE:
    msg = "Table not found, call programmer to fix"
    RETURN FALSE
ENDSWITCH
ENDPROC

WRITELIB "SiteProg" GenValChecks
RELEASE PROCs GenVal Checks

SMS2VLCK.SC  Validity Checks script

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MS: GJ-11
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(206) 753-5723

; Processes the validation required for the Strip and Trees tables

PROC StrpValChecks(tblname)
PRIVATE retprocval
SWITCH
CASE tblname = "Entry" : ; Strip pseudo table
    retprocval = RqdRulesStrip()
    RETURN retprocval
CASE tblname = "Strip" : ; Strip table
    retprocval = RqdRulesStrip()
    RETURN retprocval
CASE tblname = "Entry," : ; 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

SMS 7-37
; SMS$VLCK.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" :
    retprocval = RqdRulesSplot()
    RETURN retprocval
CASE tblname = "Subplot" :
    retprocval = RqdRulesSplot()
    RETURN retprocval
CASE tblname = "Entry,":
    retprocval = RqdRulesDSH()
    RETURN retprocval
CASE tblname = "Trees" :
    retprocval = RqdRulesDSH()
    RETURN retprocval
OTHERWISE:
    msg = "Table not found, call programmer to fix"
    RETURN False
ENDSWITCH
ENDPROC

EXEC LIB "SiteProc" SplotValChecks
RELEASE PROC SplotValChecks
Release Procs Splash1

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

Proc Splash20
; 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

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 "SiteProS" 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 Text/EndText

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 "SiteProS" 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

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

SMS 7-40
ENDPROC

WriteLib "SiteProg" Splash4
Release ProcS Splash4

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

Proc R_Splash1()
; SPLASH SCREEN for REPORT Main Menu
90,0 Clear EOS

Style Attribute 48
03,0 ;Alt 255 at each end of line to fill Text/EndText

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
90,0 Clear EOS

Style Attribute 48
03,0 ;Alt 255 at each end of line to fill Text/EndText

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
90,0 Clear EOS

Style Attribute 48
03,0 ;Alt 255 at each end of line to fill Text/EndText

LOD REPORTS

[LOD1] Print Eastside RMZ Site LOD averages
[LOD2] Print Westside RMZ Site LOD averages
[Return] Go Back to the Report Menu

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 "SiteProc" R_Splash5
Release Proc R_Splash5

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

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, Site, 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 "SiteProc" R_Splash6
Release Proc R_Splash6

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

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]  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

ENDPROC

WriteLib "SiteProg" R_Splash6
Release Proc R_Splash6

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

Proc R_Splash7()

; SPLASH SCREEN for Dom_S4H 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_S4H1] Print Eastside UMA dominant herb & shrub avg mid point:
[DOM_S4H2] Print Westside UMA dominant herb & shrub avg mid point:
[DOM_S4H3] Print Eastside RMZ dominant herb & shrub avg mid point:
[DOM_S4H4] Print Westside RMZ dominant herb & shrub avg mid point:
[Return] Go Back to the Report Menu

ENDPROC

WriteLib "SiteProg" R_Splash7
Release Proc 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 retvai = "F2" Then
Do_It!
Else
UNDO
Do_It!
EndIf

ENDPROC

WriteLib "SiteProg" MakeRec
Release Proc MakeRec

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

; Procedure for deleting a record during table edit.
PROC KillRec()
Style Reverse, Blink
@24,0 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 Proc 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
        MOVE FIELDS fldnm
        msg = fldtxt+" must be entered"
        ; empty, move to the field, set
        RETURN True
    ELSE
        RETURN False
    ENDIF
ENDPROC

WRITE "SiteProc" FldBlank
RELEASE PROCSFldBlank
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
* install3 c: *
echo
* at the A: prompt and press the Enter key. *
echo
*:cont
md %1\site91
cls
echo.
echo
echo
* Copying SMS Application and Data Files *
echo
*:end

rem Cont3.bat
cls
tem Cont3.bat
rem Get files off SMS\Paradox 1 disk.
rem Get Paradox runtime files.
cls
echo.
echo
echo
* Place SMS/Paradox 1 Diskette in drive B: *
echo
*:end

rem Extract Paradox files
cls
tem Cont3.bat
rem Get files off SMS\Paradox 1 disk.
rem Get Paradox runtime files.
cls
echo.
echo
echo
* Extracting Paradox Runtime Program Files *
echo
rem Extract SMS system files
cls
echo.
echo
* Extracting Paradox Runtime Program Files *
echo
cls
echo.
echo
* Extracting Paradox System Files *
cls
**3 1/2" Diskette DOS 4.xx installation Programs**

```bash
echo off
cls
rem INSTALL4.BAT
if "%1==xin" goto nodrive
goto cont
:nodrive
  echo.
  echo You must specify the hard drive you want the application installed on. If you want to install on drive C:, enter "install4 C:", enter at the B: prompt and press the Enter key.
  echo.
  goto end
:cont
  md %1\site91
  cls
  echo.
  echo Copying SMS Application and Data files
  echo.
  goto end
  cd %1\site91
  call %1\site91\cont4.bat
  rem Extract Paradox files
  cls
  echo.
  echo Extracting Paradox Runtime program files.
  echo.
  echo.
  goto end
  cls
  echo.
  echo Extracting SMS application and data files.
  echo.
```
**5 1/4" Diskette DOS 3.xx Installation Programs**

```bash
echo Off
cls
rem INSTALL3.BAT
if "%c1"=="N" goto nodrive
goto cont
:nodrive
cls
echo.
rec
echo
* You must specify the hard drive you want the application installed on. If you want to install on drive C:, enter
* install3 c:
* at the A: prcomp and press the Enter key.
* 
* Place SHWParadox 1 Diskette in drive A:
* 
* Copying SMS Application and Data Files
*
* **************************************************
```

```bash
copy cont3.bat %\site9l>nul:
copy site9l.exe %\site9l>nul:
copy sms9l.bat %\site9l>nul:
%\site9l
cont3.bat
:end
```
echo.
pause
cls
echo. ****************************
echo. * Copying SMS and Paradox Program Files *
echo. * Extracting Paradox Runtime program files. *
echo. * Extracting SMS application and data files. *
echo. * Remove disk and store... *
echo. ****************************
cpy A:\pdr35.exe>u:
cls
rem Extract Paradox files
cls
echo. ****************************
echo. * Extracting Paradox Runtime program files. *
echo. ****************************
pdr35>nul:
rem Extract SMS system files
cls
echo. ****************************
echo. * Extracting SMS application and data files. *
echo. ****************************
site91>nul:
rem Cleanup compressed files
erase site91.exe>nul:
erase pdr35.exe>nul:
cls
echo. ****************************
echo. * RMZ/UMA SMS installation complete. *
echo. ****************************
c: Wd
cd\RZIUHA94
installation complete.
rem
: end

cd:

5.1/4 Diskette DOS 4.xx Installation Programs.
echo off
cls
rem INSTALL4.BAT
if %1==ahh goto nodrive
goto cont
:nodrive
cls
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. * install4 c: *
echo. * at the B: prompt and press the Enter key. *
echo. ****************************
goto end
:cont
md %1\site91
cls
echo. ****************************
echo. * Copying SMS Application and Data Files *
echo. ****************************
```
rem Cont4.bat
rem Get files off SMS\Paradox 1 disk,
rem Get Paradox runtime files.
cls
cls
cls
pause
cls
cls
cls
rem Get start up files and clean up.
:end2
```
SMS Start-up Program

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

REM SMS Start-up Batch File
:execute
cd\site91
pdosrun sms_strt
cd
cls
```