



United States Department of Agriculture
US Forest Service
Natural Resource Manager (NRM)



FSVeg Common Stand Exam User Guide

Chapter 9: System Administration

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OVERVIEW

The System Administration forms access advanced data editing, type table management, and role management. Local system administrators may add other options. Advanced data editing includes the ability to insert and delete data records in addition to editing values on records. Type table management provides the ability to insert, update, delete, and set the on/off switch for FSVeg type tables. Only users with the FSVeg_wizard or FSVeg_summary Oracle role have access to these forms.

Figure 1: Main system administration form

Id	Name	Type
OPTION_01	Aerial Photo Table Mgmt	ORACLE FORM
OPTION_21	Diameter Class Template Setup	ORACLE FORM
OPTION_22	Sample Design Template Setup	ORACLE FORM
OPTION_23	Species Configuration Form	ORACLE FORM
OPTION_24	Image Management Form	ORACLE FORM
OPTION_27	Data Code Table Mgmt	ORACLE FORM
OPTION_29	Setting List Setup	ORACLE FORM
OPTION_30	Species Group Setup	ORACLE FORM

Description

Accesses the Aerial Photos Form. Use to add, delete, or edit the aerial photo records stored in nrv_aerial_photos. You MUST have the NRV_WIZARD role to add, delete, or change records in this table.

MAIN SYSTEM ADMINISTRATION FORM

The list of system administration options contains four fields, as outlined in [Table 1](#).

Table 1: Fields under system administration

Field	Description
ID	A short name or identifier. This identifier is used to sort the option list.
Name	The option name.
Type	The type of option. Valid types are Oracle Report, Oracle Form, SQL Script, Program Utility, Arc/Info AML, and Other.

Field	Description
Description	A detailed description of the option.

Details about the buttons at the bottom of the system administration forms are provided in Table 2.

Table 2: Button descriptions

Button	Description
Run	Execute the selected option. The option can also be executed by double-clicking on the option name.
Information	Information about each option in the list.

INFORMATION FORM

This form adds a new option to, or deletes an existing option from the Main Option form. Users may only access this form with the "FSVeg Wizard" role. The names of required fields contain an asterisk (*). Function buttons at the bottom of the form allow the user to add, delete, and save new options. The gray section at the bottom of the screen displays messages regarding current actions. An appropriate description or direction will appear in the gray section when the cursor is placed in any field or on any button.

Figure 2: Information form

The screenshot shows a web form titled "Information". It contains several input fields and text areas. The "Id" field is "OPTION_01". The "Name" field is "Aerial Photo Table Mgmt". The "Type/Sub Type" field has two tabs: "SYS ADMIN" and "ORACLE FORM". The "Command" field is "fsveg_aerialphoto.fmx". The "Description" field contains text about accessing aerial photos. The "Support" field contains text about NRIS staff support. The "Output Description" field contains the text "No output generated.". The "Created By" field is "FSDBA" and the "Modified By" field is "CDALBEY". The "Created Date" is "FEB-07-2000" and the "Modified Date" is "JUL-21-2008". A "Return" button is located at the bottom center.

The fields included in the Information form are described in [Table 3](#).

Table 3: Fields on the Information form

Field	Description
ID	The option identifier that appears on the previous screen once this option has been defined and saved. It is used to order the listing of options. The identifier cannot exceed 15 characters, and cannot contain spaces or special characters other than the underscore character (_). The identifier should be short yet distinct from any other option identifiers. This is a required field.

Field	Description
Type/SubType	Type is always set to "SYS ADMIN" for system administrative options. This field is used as a key to display only the option information. The Subtype is the actual type of program. Valid program subtypes are: Oracle Utility, Oracle Form, SQL Script, Program Utility, Arc/Info AML, and Other. Most of the options will be "Oracle Form" subtype. The program automatically fills in Type and SubType.
Description	A short description of the option. The description cannot exceed 135 characters in length, including spaces. This is a required field.
Created By	The name of the person who created the option.
Created Date	The date the option was created.
Name	The name of the option. The option name will appear on the previous screen once this option has been defined and saved. The name cannot exceed 30 characters in length, including spaces. It may contain multiple words. This is a required field.
Command	The UNIX command that executes the option.
Support	Information on who to contact for more information, questions, suggestions, and problems about an option.
Modified By	The person who last altered the option or the option information. This field will be automatically filled in with the Oracle OPS\$ account of the user when information is altered and saved.
Modified Date	The latest date that any of the option information was altered. This field will be filled in with the current date when information is altered and saved.
Return	Return to the previous menu.

SYSTEM ADMINISTRATION FORMS

The list of System Administration forms and their descriptions are provided in [Table 4](#).

Table 4: Fields on the Information form

Form Name	Description
Aerial Photo Ref Table Mgmt	Access the Aerial Photos form to add, delete, or edit records stored in NRV_Aerial_Photos.
Diameter Class Template Setup	Access the Diameter Class Template Setup form. Use to add, delete, or edit "master" templates used by the Stand Table and Volume Table reports. Master Templates are configured to meet Regional and/or Forest need.
Sample Design Template Setup	Access the Sample Design Template Setup form. Use to add, delete, or edit "Master" sample design templates. Master Templates are configured to meet Regional and/or Forest needs.
Species Configuration Form	Access the Species Configuration Form. Use to add, delete, or edit "master" species configuration templates. Master Templates are configured to reflect Regional and/or Forest needs.
Image Management Form	Use to add, delete, and edit images in NRV_Images, and to attach images to settings, plots, and subplots
Data Code Table Management	Accesses the Data Code Form. Use to add, delete, or edit the Data Code Definition records and the Data Code References records stored in nrv_data_code_descriptions and nrv_data_code_references. You MUST have the NRV_WIZARD role to add, delete, or change records in these tables. Please DO NOT modify this record set without consulting with the FS Veg Staff since these are nationally maintained codes.
Setting List Setup	Access the Setting List Setup form. Use to create and administer the "master" setting list for reports. These lists are predefined sets of settings that may be used when running reports. Any user may choose one of these lists as the set of settings they wish to process in a report. This list can be used in lieu of the report preferences.

Form Name	Description
Species Group Setup	Access the Species Group Setup form. Use to create and administer the "master" species groups. These groups are predefined sets of species that may be used when running certain reports. A user may choose from their personal species group or any of the master species groups in any report designed to use them.
Spatial Acres Update	For all the settings the user selects, the acres in the "acres_gis" column are copied into the "setting_size" column (called acres in CSE setting form). This tool only works on settings that are not archived and are spatially linked.

AERIAL PHOTOS

The Aerial Photos form adds, deletes, or edits data in the NRV_Aerial_Photos reference table. A record must exist in this table before aerial photos can be referenced in the CSE Setting form or data editing portions of the interface. The drop down list on the right-hand side of the form can be used to sort the photos by either "photo project" or by the "Region/Forest" so an individual photo is easier to find.

Figure 3: Aerial photos form

Aerial Photos							
Photo Project	Photo Roll*	Photo Exposure*	Photo Id*	Flight Line	Photo Scale	Photo Type	Photo Year
610021	2098	138	2098-138				
	1190	24	1190-24				
	1190	32	1190-32				
	1190	55	1190-55				
	1190	56	1190-56				
	1190	6	119056				
	1190	68	1190-68				
	690-	60	690-160				
	690-	61	690-161				
	990-	1	990-51				
	990-	7	990-77				
1	802-1111	33	802-1111				

Sort by

Photo Project
Admin Unit

DIAMETER CLASS TEMPLATE

This form is used to create or modify Master Diameter Class templates to be used with the Stand Table and Volume Table reports.

Figure 4: Master Template Setup form

The screenshot shows the 'Master Template Setup' form with the 'Master Template Detail' tab selected. The form title is 'Master Template Setup Stand Table/Volume Reports'. On the left, there are three radio buttons: 'Show Forest Templates', 'Show Regional Templates' (which is selected), and 'Show National Templates'. Below these is a table with three columns: 'Template Name *', 'Template Description *', and 'User'. The table contains four rows of data:

Template Name *	Template Description *	User
MAL-STANDARD MAL 1 I	Stand Table in 1 inch DBH Classes--Original template_name was STAND	EUEBLER
MAL-STANDARD MAL 2 I	Stand Table report in 2 inch DBH classes all trees including seedlings--Ori	EUEBLER
TEST3	artf17098 round two	RMITA
TESTTEST	artf17098 template behavior	RMITA

At the bottom of the form, there is a button labeled 'Create a new Master Template using an existing Master Template'.

The first form allows the user to display just the Forest level templates, the Region level templates, or the National level templates. The user can then select an existing template and use it as a starting point to create a new template, or start with a blank template to create a new template.

Figure 5: Master Template Setup form

The screenshot shows the 'Master Template Setup' form with the 'Master Template Detail' tab selected. The form title is 'Master Template Setup Stand Table/Volume Reports'. The 'Template Name:*' field contains 'LIVE TREE DIA GROUPS' and there is a 'Master Templates' button next to it. The 'Description:' field contains 'Set of subgroupings for different diameter live trees'. Below this is a section for 'Fixed-width diameter classes:*' with four radio buttons: '1-inch dia class' (selected), '2-inch dia class', '3-inch dia class', and '4-inch dia class'. Below these is a 'Diameter class range :*' section with 'MIN' and 'MAX' input fields. Below that is a section for 'Custom diameter classes:' with a 'Grouped diameter classes :' section containing a table with 'MIN' and 'MAX' columns and six rows. At the bottom is a 'Single group class :*' section with a 'MIN' input field.

The fields included in the Master Template Setup form are described in [Table 5](#).

Table 5: Fields on the Information form

Field	Description
Template Name	Enter the name of a new template or select the name of an existing template.
Description	Description of the template. For example, "Goshawk Diameter breaks."
Fixed-Width Classes	Select 1-, 2-, 3-, or 4-inch fixed width diameter classes, and select the minimum and maximum diameters to include in the table.
Custom Classes	Enter the minimum and maximum diameters to include in each group.

SAMPLE DESIGN TEMPLATE

Use this form to create or edit Master Sample Design templates.

Figure 6: Sample Design Master Template Setup form

The fields in the Sample Design Template form are described in [Table 6](#).

Table 6: Fields on the Sample Design Template form

Field	Description
Template Name	Enter the name of a new template or select the name of an existing template.
Sample Design	Enter the Sample Design data.
Selection Criteria	Enter the Selection Criteria associated with each line of Sample Design data.

EDIT AN EXISTING TEMPLATE

- Step 1. Select the "Master Templates" button.
- Step 2. A window will pop-up; select Forest, Region, or National templates.
- Step 3. Select an existing template to edit

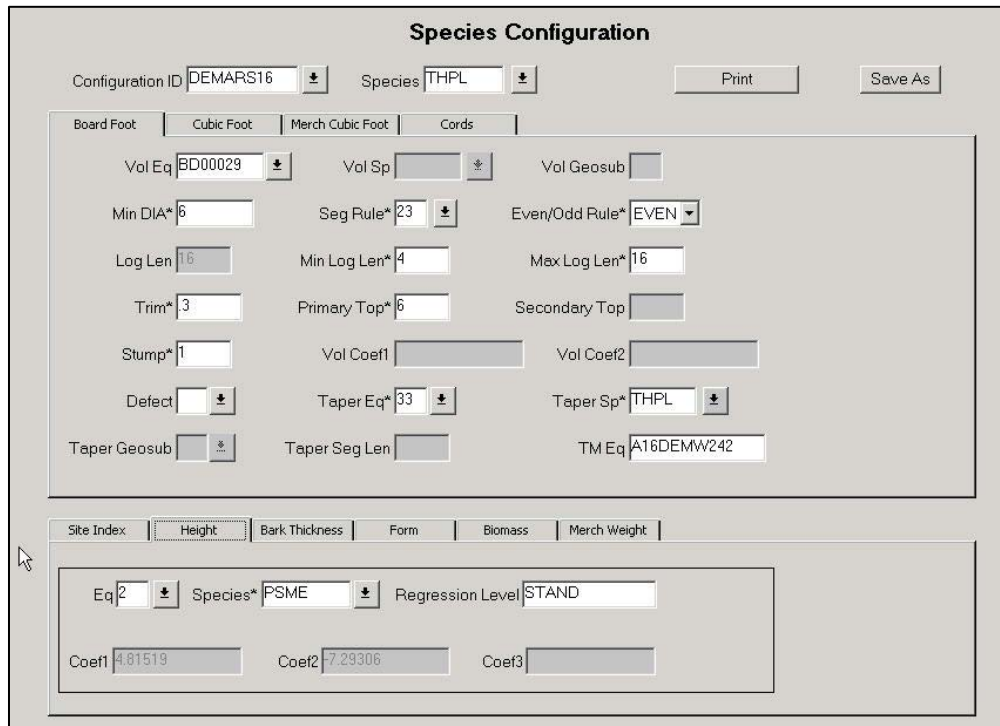
CREATE A NEW TEMPLATE

- Step 1. Just start entering data into the blank forms.
- Step 2. Data will be saved as a new master template.

SPECIES CONFIGURATION TEMPLATE

This form is used to configure each species for volume calculations.

Figure 7: Species Configuration form



The screenshot shows the 'Species Configuration' form. At the top, there are dropdown menus for 'Configuration ID' (set to DEMARS16) and 'Species' (set to THPL), along with 'Print' and 'Save As' buttons. Below this is a tabbed interface with 'Board Foot', 'Cubic Foot', 'Merch Cubic Foot', and 'Cords'. The 'Board Foot' tab is active, displaying various input fields for volume calculations, including 'Vol Eq' (BD00029), 'Vol Sp', 'Vol Geosub', 'Min DIA*' (6), 'Seg Rule*' (23), 'Even/Odd Rule*' (EVEN), 'Log Len' (16), 'Min Log Len*' (4), 'Max Log Len*' (16), 'Trim*' (3), 'Primary Top*' (6), 'Secondary Top', 'Stump*' (1), 'Vol Coef1', 'Vol Coef2', 'Defect', 'Taper Eq*' (33), 'Taper Sp*' (THPL), 'Taper Geosub', 'Taper Seg Len', and 'TM Eq' (A16DEMW242). At the bottom, there is a section for 'Site Index' with tabs for 'Height', 'Bark Thickness', 'Form', 'Biomass', and 'Merch Weight'. The 'Height' tab is active, showing fields for 'Eq' (2), 'Species*' (PSME), 'Regression Level' (STAND), 'Coef1' (4.81519), 'Coef2' (-7.29306), and 'Coef3'.

Species Configuration

Configuration ID: DEMARS16 Species: THPL Print Save As

Board Foot Cubic Foot Merch Cubic Foot Cords

Vol Eq: BD00029 Vol Sp: Vol Geosub: Min DIA*: 6 Seg Rule*: 23 Even/Odd Rule*: EVEN Log Len: 16 Min Log Len*: 4 Max Log Len*: 16 Trim*: 3 Primary Top*: 6 Secondary Top: Stump*: 1 Vol Coef1: Vol Coef2: Defect: Taper Eq*: 33 Taper Sp*: THPL Taper Geosub: Taper Seg Len: TM Eq: A16DEMW242

Site Index: Height Bark Thickness Form Biomass Merch Weight

Eq: 2 Species*: PSME Regression Level: STAND Coef1: 4.81519 Coef2: -7.29306 Coef3:

IMAGE MANAGEMENT

The Image Management form allows users with the FSVeg Wizard role to add, delete, and edit images in the `nrv_images` table and to attach images to settings, plots, and subplots.

OVERVIEW

- Step 1. Select the radio button to list all of the images in the database for the entire Nation, for just your Region, or for just for your forest. You will only be allowed to add, edit, or delete images at the Forest level.
- Step 2. Select the LOV button on the "Sort By" list. Sort the list of images by Filename, Image Date, Label, or Photographer Name.
- Step 3. Select an image and then select the "View Image" button at the bottom of the screen. This will allow you to view, zoom in, and zoom out of the image.

Figure 8: Image Mangement form

Filename *	Image Date	Label	Photographer Name
058[1].jpg	05/06/1956	now the date is ok	
20061107180412.jpg	01/01/2009	testttt	???
test_jpeg.jpeg	03/16/2009	test	
1600x1200.jpg	03/17/2009	test	?
IMG_2472.JPG	03/23/2009	image resaved by ywang	
Colleen_diving.jpg	03/24/2009	measuring aquatic vegetation	Sleavin sisters
Q_mistakes.jpg	05/18/2009	Time to rearrange the deck chairs . . .	D.Motivation
021[1].jpg			
IMG_0310.jpg		I saved the same image twice here, is this OK?	
IMG_1395.JPG			
Sunset.jpg		2	

Description

View Image Settings

VIEW IMAGE

View the image, and zoom in and out of the image.

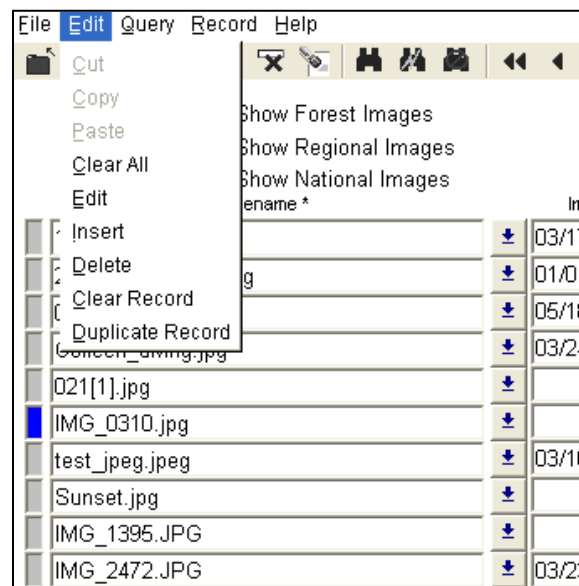
Figure 9: Example of a viewed image



DELETE AN EXISTING IMAGE

- Step 1. Highlight the image in the list.
- Step 2. From the main menu, select Edit/Delete.

Figure 10: Delete an existing image



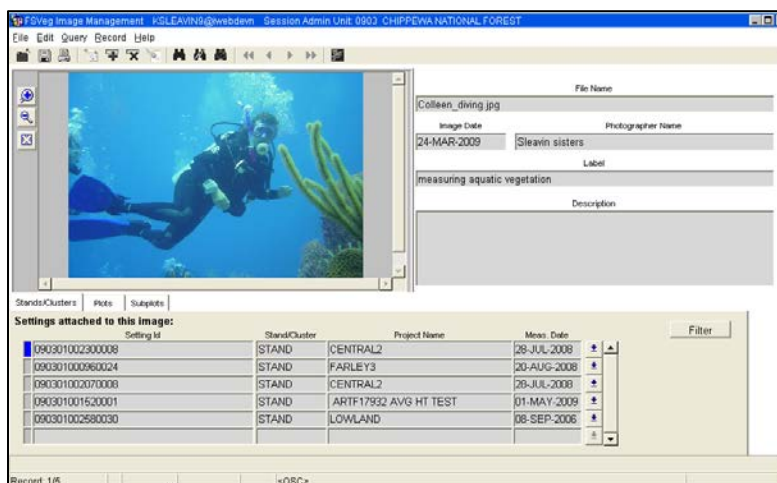
PROGRESSIVE SCAN PHOTOS

All .jpg images are not alike. Some are created with a progressive encoded image scan and cannot be viewed directly in the FSveg Oracle forms. To avoid this problem, open the image in a photo editor, and save it back to the same file name. This will reformat the image into simple encoding which Oracle forms can read. Once the file is resaved, it can be loaded into FSveg and will be viewable.

ADD A NEW IMAGE

- Step 1. Scroll to the bottom of the list.
- Step 2. Select the first blank line and click on the LOV to the right of the Filename column.
- Step 3. Navigate to where the image is currently stored and double-click on the image name. The file name will automatically be populated.
- Step 4. Double-click on the image. The required fields on the form are populated automatically.
- Step 5. Click on the File/Save options from the main menu. A copy of the image will be transferred from its current location into the nrv_images table.
- Step 6. Select the Settings button to attach the image to settings, plots, and subplots. The settings screen displays a small version of the image and the data about the image from the previous screen.
- Step 7. To attach a setting to the image, first select the stand/clusters tab. Then select the Filter button and filter the possible settings by Region, Forest, District, etc. Finally, select the LOV on the right hand side of the first blank line like. This will pull up a list of all settings that match the filter. Select one of the settings in the list to associate with the image. This process may be continued as many settings may be associated with each image.

Figure 11: Setting canvas



DATA CODE TABLES

Accesses the Data Code Form. Use to add, delete, or edit the Data Code Definition records and the Data Code References records stored in `nrp_data_code_descriptions` and `nrp_data_code_references`. You MUST have the `NRV_WIZARD` role to add, delete, or change records in these tables. Please DO NOT MODIFY this record set without consulting with the FSVeg Staff since these are nationally maintained codes.

Figure 12: Data Code Description Setup form

The screenshot shows the 'Data Code Description Setup' form. At the top, there are two tabs: 'Data Code Desc' and 'Data Code Ref'. The 'Data Code Desc' tab is active. Below the tabs, the title 'Data Code Description Setup' is centered. To the right of the title is a 'Sort by' dropdown menu. The main part of the form is a table with two columns: 'Data Id*' and 'Data Code Table*'. The table has a list of data codes, with 'CSE GENERIC PLOT CODE' highlighted. Below the table, there are several input fields: 'Data Description*' (with the text 'Generic plot code for CSE usage.'), 'Format*' (set to 'VARCHAR2(4)'), 'Units', 'Precision', 'Start Value', 'Stop Value', 'Step', 'Constraining Reference Table', and a 'Cn' field with the value '1010642'.

The fields in the Data Code Description Setup form are described in [Table 7](#).

Table 7: Fields on the Data Code Description Setup form

Field	Description
Data ID	Required. Unique name of each entry in this form.
Data Code Table	Required. Name of one of the Data Code tables.
Sort By	Sort the table by the Data ID column, the Data Code Table Column, or Null (do not sort the table).
Data Description	Required. Describes the Data ID field.
Format	Required. Describes the format of the Data ID field.
Units	Unit of Measure associated with the Data ID field.
Constraining Reference Table	The name of a table which contains a list of valid values. These are the only values which can be used in the table.

Field	Description
Precision	Precision associated with the Units of Measure.
Start Value	If the table is to be constrained by a range of valid values, this is the minimum value.
Stop Value	If the table is to be constrained by a range of valid values, this is the maximum value.
Step	If the table is to be constrained by a range of valid values, this is the increment between the minimum and maximum value.
Cn	System-generated number to uniquely identify each record in the table.

Figure 13: Data Code Reference Setup form

The fields in the Data Code Reference Setup form are described in [Table 8](#).

Table 8: Fields on the Data Code Reference Setup form

Field	Description
Data ID	The Data ID value from the previous form.
Valid Data	Required. Contains the valid codes for each Data ID.

Field	Description
Data Description	Required. Describes each code.
Created By	Name of the person who created the code.
Created Date	Date the code was created.
Modified By	Name of the person who modified the code.
Modified Date	Date the code was modified.
Cn	System-generated number to uniquely identify each record in the table.

LIST EDITOR

Any lists created are “Master” lists and will be available to all users with the same Region and Forest VPD. Follow the directions on the form to create the list, or go to [Chapter 7 of the User Guide](#) and follow the directions there to create a list.

Figure 14: FSVeg List Editor form

FSVeg List Editor

List Name
sleavin

List Description
helpdesk

Instructions for creating a list:
1. Clear the form (if a list has already been entered) by selecting the Clear Record icon
2. Enter a list name and list description
3. Save it (disk icon)
4. Click the Preferences button
5. Add settings to the list by selecting All Setting Ids -> Add to List or selecting Single/Multiple Setting Ids -> Add to List
6. Repeat step 5 to add more settings to the list
7. To leave the Preferences form, click the Close button

Preferences

Setting Id	Meas No	Measurement Date	Reg Admin	Forest Admin	Reg. Proc	Forest District Proc	Stand/ Cluster Id	Location	Project Name	Purpose Code	
0202041018021802	1	24-AUG-2007	02	02	02	02	04	1802	101802	GRANITE CREEK	SE

Name used to describe the list.

Record: 1/1 ... <OSC>

SPECIES GROUP SETUP

This form is used to create and administer the “Master” species groups. These groups are pre-defined sets of species that may be used when running certain reports. A user may choose from their personal species groups or any of the master species groups in any report designed to use them.

Figure 15: Species Group Setup

Species Group Setup

Personal Groups Master Groups

Groups This form will automatically prepend Admin Unit to the beginning of all master group names.

Sort By Created By

Group Name	Created By	Group Description
00_HARDWOODS	JFS_NRIS_FSVEG	Hardwoods, including all unknown spp except 2TN, 2SN, and 2SSN
00_SOFTWOODS	JFS_NRIS_FSVEG	Softwoods, including unknown spp 2TN, 2SN, and 2SSN
New master Group	KSLEAVING	For the User Guide

Species Due to the sheer numbers involved, individual species will not be listed for 00_HARDWOODS and 00_SOFTWOODS

Symbol	Common Name	Genus	Species	Subspecies	Variety
PIPO	ponderosa pine	Pinus	ponderosa		
PSME	Douglas-fir	Pseudotsuga	menziesii		
QURU	northern red oak	Quercus	rubra		

Record: 4/4 <OSC>

SPATIAL ACRES UPDATE

For all the settings the user selects, the acres in the "acres_gis" column are copied into the "setting_size" column (called acres in CSE setting form). This tool only works on settings that are not archived and spatially linked.

- Step 1. When this tool is selected, the Preferences window appears. Select one or more stands that you wish to run the Spatial Acres Update on. When you are finished, close the Preferences window.
- Step 2. Another window will appear listing all the stands you have chosen, their Current Setting Size, if any, and the current Acres GIS value, if any. To add more settings to this list select the "Preferences" button. To cancel out of this tool, select the "Cancel" button.

Figure 16: Update Spatially Linked Acres form

Update Spatially Linked Acres

Preferences

Setting Id	Current Setting Size	Acres GIS
090301002540002		23.79
090301002550013		30.57

Cancel SYNC ACRES

- Step 3. Select the "Sync Acres" button to set the Current Setting Size value equal to the Acres GIS value.

Figure 17: Update Spatially Linked Acres form

Update Spatially Linked Acres

Preferences

Setting Id	New Setting Size	Acres GIS
090301002540002	23.79	23.79
090301002550013	30.57	30.57