



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



FSVeg Common Stand Exam User Guide Chapter 8: Utilities

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UTILITIES MAIN SCREEN

The Utilities menu contains programs that load data into FSveg and access FSveg data.

Figure 1: FSveg Utilities Menu screen

Id	Name	Type
FVS_DB_LINK	FVS DB Extension List Builder	ORACLE FORM

Description

This utility creates the files and links necessary for running the Forest Vegetation Simulator (FVS) Database Extension for selected FSVEG Settings

Run Information

RUNNING A UTILITY

To run or execute a utility, highlight the desired utility and select the RUN button.

UTILITY INFORMATION

To run or execute a utility, highlight the desired utility and select the RUN button.

Figure 2: Utility information form

Utility Details

Id: FVS_DB_LINK Name: FVS DB Extension List Builder

Type/Subtype: UTILITY ORACLE FORM Command: fsvseg_list_editor.fmx

Description: This utility creates the files and links necessary for running the Forest Vegetation Simulator (FVS) Database Extension for selected FSVEG Settings

Support: Supported by the NRIS Staff.

Output Description: This utility produces the following files: (1) suppose. loc (2) FVS_Data.mdb

Uses Preference: Y

Created By: FSDBA Modified By: FS_NRIS_FSVEG

Created Date: DEC-13-2004 Modified Date: SEP-04-2009

Is Mandatory Utility: N

These fields are the same as those in the Add/Delete screen, and are for display only.

NATIONAL UTILITIES

The nation utility file is described in Table 1.

Table 1: National utility file description

Name	Description	Output
FVS_DB_Link	Creates the files and link necessary to run the Forest Vegetation Simulator (FVS) database extension for selected settings.	This utility creates the suppose.loc and FVS_Data.mdb files.

FVS_DB_LINK UTILITY

The FVS_DB_LINK utility builds Forest Vegetation Simulator (FVS) data files for settings stored in FSveg. The FVS_DB_LINK utilizes advancements in FVS database connectivity to create a direct link from SUPPOSE/FVS software to your data stored in a MS Access database. These links will only work with Suppose, version 2.0 and beyond, and FVS variants posted after March 15, 2007. If needed, users should update their Suppose/FVS executables.

Be sure to have .Net 2.0 installed on your computer. If you do not have it, you can [download OSTIV 2006-16 from OSTIB](#).

USING THE FVS_DB_LINK UTILITY

In order to use the FVS_DB_LINK utility, you need to know:

1. The directory to store the FVS-ready files.
2. A default FVS variant.
3. The name of the list that contains the FSveg Setting IDs you want to download.

Figure 3: FVS Database Extension List Builder form

Directory where your FVS files will be stored

Select Target Directory

Select Default FVS Variant when unable to make assignment for non-NFS data

List Name

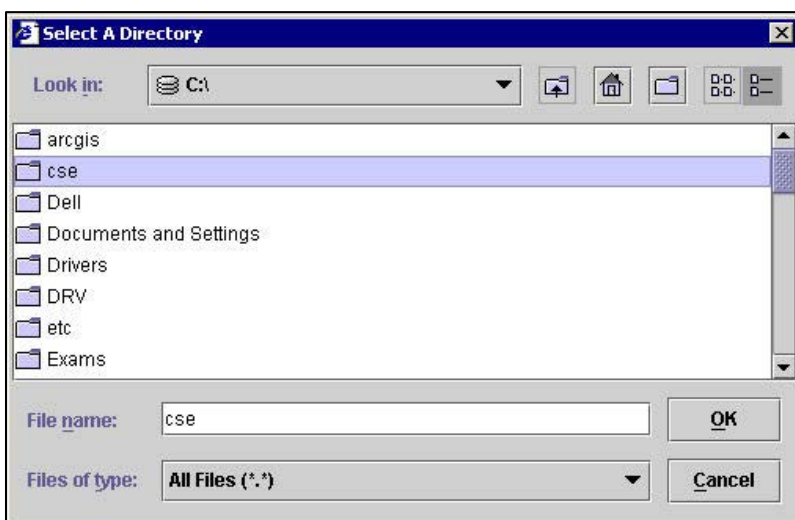
Create/Select List

Create FVS Files

Select Your Target Directory

- Step 1. Click Select Target Directory button.
- Step 2. Navigate to a project folder to store your data, or create one now, as shown in [Figure 4](#).
- Step 3. Click on the OK button.

Figure 4: Select target directory

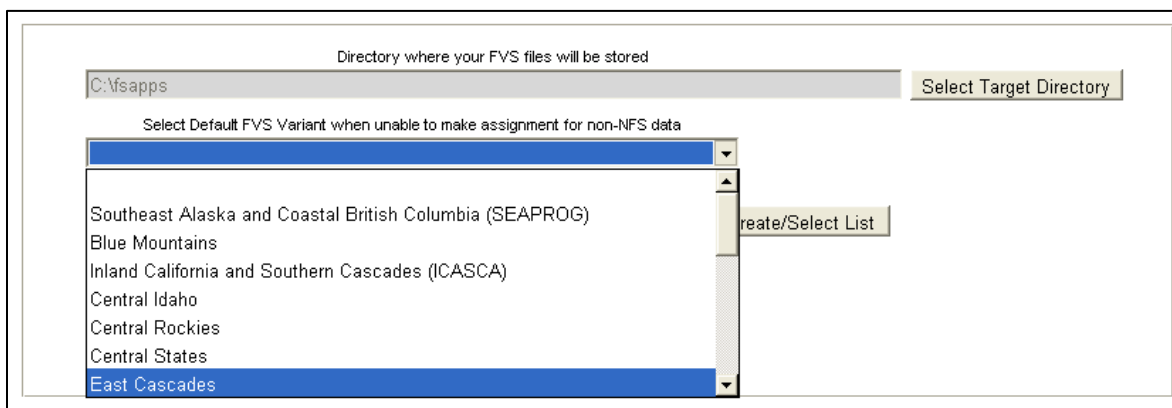


Select a Default FVS Variant

FVS variants are automatically assigned to each FS Veg Setting ID based on the Region and Forest number. Some data may not contain a Region and Forest number, such as FIA strategic grid inventory data from State lands or County lands adjacent to your Forest. The default FVS variant is only assigned to data in the Setting ID list that does not contain a Region and Forest number.

- Step 1. Select the arrow to access the drop-down list of FVS variants, as shown in [Figure 5](#).
- Step 2. Select a default FVS variant.

Figure 5: FVS Database Extension List Builder



Selecting a List of Setting IDs to use with FVS

- Step 1. Click on the Create /Select List button, as shown in [Figure 6](#). This will open the FSveg list Editor form, as shown in [Figure 7](#), that enables you to assign your stand exams to a list for downloading. If a list has already been created for selecting the desired settings, it can be selected using the down arrow button to the right of the box for List Name. Once selected, close the window and [skip to Creating the FVS-Ready Files section](#) of this document. Usually, an appropriate list will not exist, so follow the next steps.

Figure 6: FVS Database Extension List Builder form

Figure 7: FSveg List Editor form

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

Setting Id	Meas No	Measurement Date	Reg Admin	Forest Admin	Reg. Proc	Forest District	Stand/Cluster Id	Location	Project Name

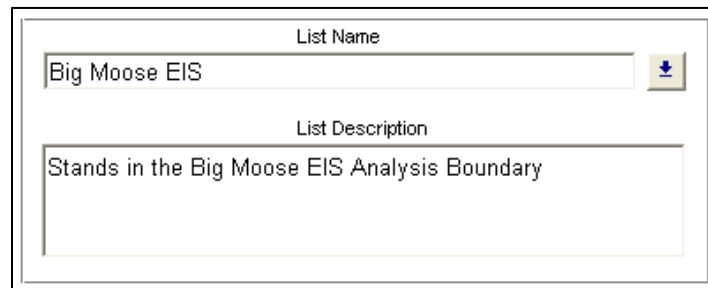
- Step 2. Clear the form (if a list has already been entered) by selecting the clear record icon, as shown in [Figure 8](#).

Figure 8: Clear Record icon



- Step 3. Enter a list name and list description for the stand exams you wish to download, as shown in [Figure 9](#).

Figure 9: Select list to be downloaded



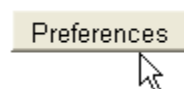
- Step 4. Click the yellow disk icon, shown in [Figure 10](#), to save the list name.

Figure 10: Yellow disk icon



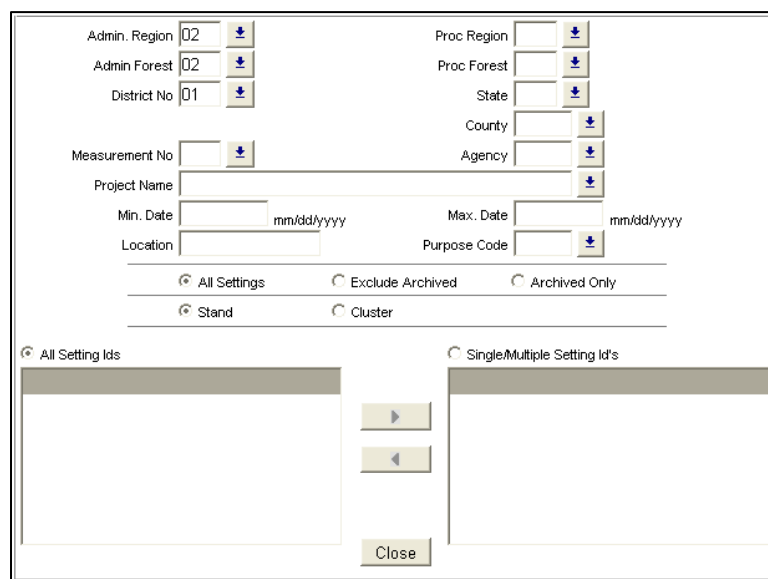
- Step 5. Click on the Preferences button, as shown in [Figure 11](#).

Figure 11: Preferences button



- Step 6. The Preferences window shown in [Figure 12](#) now appears.

Figure 12: Preferences window



Adjust the preferences to select the desired settings from FSVeg.

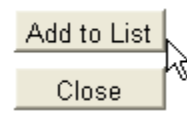
To include all setting ids, click on the radio button for All Setting Ids.

To include selected setting ids:

1. Select the Single / Multiple Setting Ids radio button.
2. Select a setting id in the left list box.
3. Click on the right-arrow (->) button to move the setting id to the right list box.
4. Add any additional desired settings by selecting them and using the right-arrow.

Step 7. When finished selecting setting IDs, click the Add to List button as shown in [Figure 13](#).

Figure 13: Add to List button



Step 8. Click the Close button.

Step 9. Click the yellow disk icon, shown in Figure 10, to save the preferences. The list name and associated setting IDs are now displayed in the List Editor, shown in [Figure 14](#). To close the FSVeg List Editor, select the red folder icon located on the upper left-hand corner of the form, also shown in [Figure 15](#).

Figure 14: FSVeg List Editor form

List Name
Big Moose EIS

List Description
Stands in the Big Moose EIS Analysis Boundary

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	Stand/ Cluster Id	Location	Project Name	Purpose Code
0209041052010004	1	01-JUN-1977	02	09	02	09	04	105201	RMSTAND	SE
0209041052010005	1	01-JUL-1977	02	09	02	09	04	105201	RMSTAND	SE
0209041053010003	1	01-SEP-1976	02	09	02	09	04	105301	RMSTAND	SE
0209041053010005	1	01-SEP-1976	02	09	02	09	04	105301	RMSTAND	SE
0209041053010009	1	01-AUG-1987	02	09	02	09	04	105301	RMSTAND	SE
0209041053020010	1	01-SEP-1983	02	09	02	09	04	105302	RMSTAND	SE
0209041053020020	1	01-SEP-1983	02	09	02	09	04	105302	RMSTAND	SE
0209041053020022	1	01-SEP-1983	02	09	02	09	04	105302	RMSTAND	SE
0209041053020023	1	01-SEP-1983	02	09	02	09	04	105302	RMSTAND	SE

Figure 15: Red folder icon



Creating the FVS-Ready Files

You now have the capability of creating the FVS input files by clicking the “Create FVS Files” button, which will save your stand and tree data into an MS Access database in the project folder.

Click the Create FVS Files button. A black window will appear for a short time and then control will be returned to the FVS Database Extension Utility, as shown in [Figure 16](#).

Figure 16: FVS Database Extension Utility form

The screenshot shows a software utility window titled "FVS Database Extension Utility". It contains several input fields and buttons. At the top, there is a text box labeled "Directory where your FVS files will be stored" containing the path "C:\Documents and Settings\ksleavin\Favorites", with a "Select Target Directory" button to its right. Below this is a dropdown menu labeled "Select Default FVS Variant when unable to make assignment for non-NFS data" with "Blue Mountains" selected. Underneath is a text box labeled "List Name" containing "01 OG_Rpt_Criteria", with a "Create/Select List" button to its right. At the bottom center is a large "Create FVS Files" button.

Close the Utility form by selecting the red folder icon, as shown in Figure 15 above, and exit FS Veg. If a message appears asking “Do you want to save the changes you have made?” click the Yes button.

Two FVS data-ready files are created when the utility is run and saved in the project folder. These files are described in [Table 2](#).

Table 2: FVS data-ready files

Filename	Description
Suppose.loc	Identifies Project in “Select Simulation Stands” window
FVS_Data.mdb	MS Access database containing setting id and tree data

The fsveg_fvs.mdb MS Access database contains four tables, as outlined in [Table 3](#).

Table 3: Tables in fsveg_fvs.mdb database

Filename	Description
FVS_GroupAddFiles AndKeywords	Stores addfiles and keywords related to group codes
FVS_StandInit	Contains the stand level data
FVS_TreeInit	Contains the tree level data
Metadata	Contains metadat

All files should be saved for future use. A description of the keywords is contained in the User Guide to the Database Extension of the Forest Vegetation Simulator Version 2.0 (FVS Staff 2007).