## FOR 474 – FVS DATA ENTRY LAB

## **BACKGROUND:**

FVS's *Suppose* simulation interface is driven by three separate files; a '*Locations*' file, a '*Stand List*' file, and a '*Tree Data*' or '*Tree List*' file. A brief description of each file is provided below.

The '*Locations*' file contains one data record for each unique location. A location is defined as any set of stands within a given project area (*e.g.*, stands within a watershed, stands across multiple watersheds, stand within a ranger district, stands across an entire state). Each record within the 'Locations' refers to a '*Stand List*' file.

The '*Stand List*' file contains data entries for each stand with the location. This includes stand identification information, information describing the inventory sampling protocol (*e.g.*, BAF, plot size, number of plots), specific site data, and name of the '*Tree Data*' or '*Tree List*' file associated with a particular stand. The '*Stand List*' file contains other information such as a code identifying the geographic variant of FVS that should be used to simulate the stand growth dynamics, and the identification of groups to which the stand belongs (*e.g.*, vegetation or forest type, project name). Each record within the 'Locations' refers to a '*Stand List*' file.

## **OBJECTIVE:**

The primary objective of this lab is for each of you to learn how to generate the three aforementioned files ('*Locations*', '*Stand List*', and '*Tree Data*' files), and use FVS to project future stand conditions. Furthermore, you will each learn how to generate basic FVS tabular and graphical outputs describing current and future stand conditions.

**Task 1:** Use the '*FVS Writer*' program to generate a '*Locations*', '*Stand List*', and '*Tree Data*' file for one stand on Moscow Mountain.

1. Open 'FVS Writer'

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🕼 Microsoft Office Acce	💼 FVS	•	🛕 Format4FVS
	💼 SigmaPlot	•	📝 FVS Writer
	💼 Mozilla Firefox	•	🌲 FVSStand
All Programs 👂	💼 CyberLink PowerDVD	•	🔝 Northern Region Exercises
	🛅 DLA	•	🛄 Suppose
背 start 🛛 🔹	🛅 Google Earth	•	📷 TOSS
	i GPS Pathfinder Office 3.00	•	WinSVS

2. The first step is to generate the '*Tree Data*' file. Browse to the class directory and create a file named 'MosMtTrees.FVS'. Find the attached tree data form and enter all the tree information line by line. After you done entering a line of tree data click the Add Record button. After you are through entering and adding all 26 tree records click the Save button, then click the Next Window button to advance to the '*Stand List*' file creation interface.

😿 FVS Writer - Tre	e Data		
FVS tree data file nar	ne:		<u>B</u> rowse →
Plot number Tree number Status Species List Dbh Dbh increment Total height Height to topkill		Crown ratio Damage 1 Severity 1 Damage 2 Severity 2 Damage 3 Severity 3 Value class Prescription of	
	Clear Display	I Delete Record	Add Record
	<u>S</u> ave		Next Window >>

3. Generate a '*Stand List*' file. Browse to the class directory and create a file named 'MosMtStnads.slf'. Browse to the '*Tree Data*' file you created in the previous step. Enter 'Moscow Mt. Stands' in the grouping code box (include the quotation marks). Find the attached stand data form and enter the data. When all the fields are entered click the Add Record button, the save the '*Stand List*' file. Click Next Window button to advance to the '*Locations*' file creation interface.

Stand List File name	FVS T	ree Data File	associated with the info b	elow
	Browse			Browse
Addfiles	Browse	Varia	nt code(s)	List
Location/Project Name	Grouping Code(s) S		Stand ID	
		< >		
Inventory year	Inverse of fixed plot size (ac.)		Height growth period (yrs)	
Latitude (degrees)	Breakpoint DBH (inches)		Mortality period (yrs)	
Longitude (degrees)	Number of plots		Maximum BA (sq ft/ac)	
Location (region/forest)	Non-stockable plots		Maximum SDI	
Habitat type code	Stand weight or size		Site species	
Stand origin year	Stockable %		Site index	
Aspect (degrees)	Diameter growth code		Model type	
Slope %	Diameter growth period (yrs)	riod (yrs) Physiographic re		ion
Elevation (100s of feet)	Height growth code		Forest type	
Basal area factor	Clear Display	Delete F	lecords Add Reco	rds
<< Prev. Window	Save		Next V	√indow >>

4. Generate a '*Locations*' file. Browse to the class directory and create a file named 'MosMtSuppose.loc'. Browse to the '*Stand List*' file you created in the previous step. Enter 'Moscow Mt.' in the Location/Project Name box. Click the Add Record button, and then save the '*Locations* file. Click the Exit button when you are through.

FVS Writer - Location D	Data	
suppose.loc	Browse	
<ul> <li>A Records</li> </ul>		
Stand List File associated with	the Location Name below	Browse
Location/Project Name	Grouping Code(s)	Stand ID
C B Records (optional) Grouping Code to which the add	dile will be attached Addile Name	(use 'Prev. Window' button)
	Clear Display	Delete Record
<< Prev. Window	Save	E <u>x</u> it

Task 2: Use the FVS Suppose interface to project forest growth for the stands you just entered.

- If you don't know how to do this the instructor will provide an example to the entire class.