#### Rocky Mountain – Vegetative Structural Stage Forest Vegetation Simulator Post Processing Users Guide

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### I. Concepts: FVS Reporting of Vegetative Structural Stage

There are two Forest Vegetation Simulator (FVS) post processing programs available to report Vegetative Structural Stage (VSS): RMVSS and FVSStand. This paper will describe how to use each of these programs to output VSS values. Consideration for Northern Goshawk habitat requires analysis at three levels: Within a forest stand; At the forest stand; and, Amongst many forest stands. Methods to address these various scales will also be presented in this paper. The Cedro project area on the Cibola National Forest will be used as an example.

#### II. FVS/VSS Analysis: Within a Forest Stand

Follow these steps to process inventory point data:

Execute the **Suppose** interface by clicking the **Suppose** icon.

#### *Plot Selection (a.k.a. Within Stand Level - inventory point, subplot)*

- 1. Select "**Preferences**" on the main menu bar in Suppose.
- 2. Select "Suppose Preferences" menu option.

Suppose v2.02 Simulation	on file: *new file	· Car Circulation				
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- Simulation Preparation -						بها لکا لگ
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After Simulation Read FVS Outputs	Generate	Graphs	Generate	Reports		Exit



- 3. The "**Process plots as stands**" Suppose preference should be set to "**Yes**".
- 4. Click the "Apply" button.
- 5. Click the "**Close**" button to return to the main Suppose window.

Modify Preferences		×
Default Variant:	cr	_
Default Locations File:	suppose.loc	_
Default Parameters File:	suppose.prm	_
Default Database Name:		_
PPE Used:	No	_
Default Editor:	c:\progra~1\idm_co~1\ultrae~1\uedit32.e×e	_
Segment the initial cycle:	Yes	_
Process plots as stands:	Yes	_
Default Working Directory:	j. k	_
	Set Default to Current Working Directory	
Applied changes will take eff	ect upon next use of Suppose.	

Apply

Close

- 6. Select "File" on the main menu bar in Suppose
- 7. Click "**New**" to clear previous simulation from memory.
- 8. Select "File" on the main menu bar in Suppose.
- 9. Click "Open Locations File".
- 10. Navigate to your *project folder* (i.e. C:\FVSData\Cibola\Cedro).
- 11. Select the "Suppose.loc" file.
- 12. Click the "**Open**" button.
- 13. In the left window pane, under the "Pick Locations First" header, select "**FSVEG**".
- 14. In the middle window pane, under the "Pick Groups First header, select "**All\_Plots**".
- 15. In the right window pane, click the "All Stands" button to select all inventory points.
- 16. Click the "Add ### Stands" button.
- 17. Click the "Close" button.

#### Modify Time Scale (optional)

- 18. Click the "**Select Modifiers**" button on the main Suppose window.
- 19. In the left pane of the "Model Modifiers" window, choose the "**Modify Time Scale**" list option.
- 20. In the right pane, choose the "Set inventory year" list option.
- 21. In the "Set inventory year" window, enter "2013" (i.e. current year) as the "Starting date for the stand projection".
- 22. Click the "Okay" button.

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Change	Group Membership			Paste	
After Simula	stion				
Read FV	'S Outputs Ge	enerate Grap	ohs Gen	erate Reports	Exit

🔠 Suppose v2.02 Si	mulation file: *new file*	×
File Edit Data Preparat	ion Simulation Preparation After Simulation Preferences Help	
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Simulation Prepa	ration	
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Add Keywords	Insert From File Select Post Processors Select	ct Modifiers 1223 Stands 6 Groups
Simulation file of	🔛 Model Modifiers	
<ul> <li>Stand: 130305</li> <li>Group: AIL P</li> <li>From Data</li> <li>Group[s] with</li> <li>Group: All p</li> <li>Group: All p</li> <li>Group: All p</li> <li>Group: tori</li> <li>Group: tori</li> <li>Stand: 030305</li> </ul>	Volume Modifiers       Create         Mortality Modifiers       Set tin         Diameter Growth Modifiers       Set tin         Crown Modifiers       Set tin         Modify Potential Fire Conditions       Modify Potential Fire Conditions         Modify Potential Fire Conditions       Modify Fire Behavior         Modify Firme Scale       Modify Withestern Root Disease Model         Modify Vitime Scale       Modify Settern Root Disease Model         It set inventory year       Set Inventory year	excle boundary ne interval for a cycle s number of cycles ventory year
<ul> <li>         ■ Stand: 03030         <ul> <li>                 ■ Stand: 03030                 </li> <li>                 ■ Stand: 03030                 </li> </ul> </li> </ul>	Starting date for the stand projection (eg. 1991).	2013.
Edit Simulation	Specify the starting date for a projection.	~
Change Gro After Simulation Read FVS O	CAUTION: The default inventory year is read from your data. This used by Suppose to insure that the simulation starting y to a year prior to this default inventory year. This versi Suppose does not insure that the value you enter using correct, nor does Suppose recognize that this value may incorrect result.	default is rear is not set no f this keyword is y cause an

- 23. Next, in the right pane of the "Model Modifiers" window, choose the "**Set the number of cycles**" list option.
- 24. To report *existing conditions only*, accept "1" as the "Number of cycles to be projected". To *project beyond existing conditions*, enter an appropriate value equal to the total number of years divided by the projection cycle length (e.g. 200 years/10 year cycle length = 20 cycles).
- 25. Click the "Okay" button.
- 26. In the right pane of the "Model Modifiers" window, choose the "**Set time interval for a cycle**" list option.
- 27. For "**FVS cycle number**", specify "**0**" to indicate for *all projection cycles*.
- 28. Leave "Cycle length" set to default value.
- 29. Click the "Okay" button.
- 30. "Close" the "Model Modifiers" window.

#### Delete Base Model Reports (optional)

- 31. Click the "**Select Outputs**" button on the main Suppose window.
- 32. In the left pane of the "Model Outputs" window, choose the "**Base FVS Reports**" list option.
- 33. In the right pane, choose the "Delete Base Model Reports" list option.
- 34. Select to check the "Delete the stand composition table", "Delete the selected sample tree table", and "Delete the activity schedule table". This will eliminate the percentile tables and unnecessary activity schedule table from the FVS Main Output report.
- 35. Click the "Okay" button.

### FVSStand Treelist (MANDATORY!!!)

- 36. In the left pane of the "Model Outputs" window, choose the "**Base FVS Treelists**" list option.
- 37. In the right pane, choose the "**Build FVSStand Alone Treelist**" list option.
- 38. To report *existing conditions only*, click the "Inventory Year" radio button. To report *projection years beyond existing conditions*, click the "Inventory Year and All Cycles" radio button.
- 39. Click the "**Okay**" button.
- 40. "Close" the "Model Outputs" window.



#### Select Post Processors (MANDATORY !!!)

- 41. Click the "Select Post Processors" button on the main Suppose window.
- 42. In the upper pane of the "Select Post Processors" window, choose the "**View the Main Output file using system editor**" list option.
- 43. Click the "Include" button.
- 44. In the upper pane of the "Select Post Processors" window, choose the "Rocky Mountain Vegetative Structural Stage" list option.
- 45. Click the "Include" button.
- 46. In the upper pane of the "Select Post Processors" window, choose the "FVSSTAND Alone: Generate Dynamic Yield Reports" list option.
- 47. Click the "Include" button.
- 48. "Close" the "Select Post Processors" window.

#### **Run Simulation**

- 49. Click the "**Run Simulation**" button on the main Suppose Window.
- 50. Creatively name your simulation in the "Save As" window. Click "Save".
- 51. Click the "Run" button.

#### View FVS Main Output Report

- 52. Review the "**Options Select by Input**" table for error listings. Make corrections if needed.
- 53. "Close" system editor.



#### View RMVSS Post Processor Report

54. Review the "**Vegetative Structural Stage**" table. Note the stand number and associated inventory point.

**Note:** the RMVSS post processing program provides the most detail regarding the VSS computation. Subtotals by structural stage class for the number of trees, basal area, quadratic-mean-diameter, stand density index, and percent stand density index are displayed. The computed *Structural Stage* is presented. Successive stand/plots follow in the listing.

- C:\FVSdata\Cibola\Cedro\Cedro\_Plots.VSS] UltraEdit 🔞 File Edit Search Insert Project View Format Column Macro Scripting Advanced Window Help 🗅 🗁 🖄 😫 🖳 🚺 🗐 🔛 🔛 🗐 👘 👘 👘 👘 👘 👘 👘 👘 Open Files Cedro Plots.VSS × REGION: 3 LOCATION: -0303050050470001\_0001 YEAR: 2013 CYCLE: 0 RVANGENERATIVE STRUCTURAL STAGE FOREST COVER TYPE = PJ MAX SDI FOR TYPE = STAND SITE INDEX = 25 STAND SDI = \$ SDI OF MAX SDI = \*\*\*\*\* 415.0 69.0 16.62 GRS/FRB/ SEEDLNGS SAPLNGS 0-1" 1-3" MID-AGE FOREST 5-11" YOUNG FOREST 3-5" MATURE OLD FOREST N/A FOREST 11"+ 700.0 3.8 1.0 0.0 0.00 0.0 0.0 0.0 0.0 0.00 28.6 10.0 8.0 20.0 29.04 # TREES IN CLASS BA FOR CLASS QMD OF CLASS SDI IN CLASS % SDI IN CLASS 0.0 0.0 0.0 0.0 0.0 31.7 30.0 13.2 48.9 70.96 STAND STRUCTURE IS EVENAGED. 60% or More of BA IS BETWEEN DIAMETERS 8.0-15.9 (ACTUAL % BA IN RANGE IS 68.47) STRUCTURE STAGE = 5ASS POINTS TOTAL 1 UNDER STOCKED 0 (EITHER NONSTOCKED OR HAS LESS THAN 15% OF MAX SDI) SDI RATING = 00.05500.17 REGION: 3 LOCATION: -0303050050470001\_0002 YEAR: 2013 CYCLE: 0 
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- 55. Compare values in the "Vegetative Structural Stage" table with the "Summary Statistics" table from the FVS Main Output Report.
- 56. "Close" system editor.

#### View FVSStand Post Processor Report

57. Step 2 of the FVSStand\_Wizard will appear on t screen. Default configurations should suffice. Cli "Next" button.

Users can run FVSStand outside of the Suppose interface {i.e. Alone} in which case, Step 1 of the FVSStand\_Wizard will prompt for the location o FVSStand Treelist file.

58. Step 3 of the FVSStand\_Wizard will appear nex screen. Select the appropriate "USFS Region" un "Vegetation Classification" header. Default value should suffice. Click the "Finish" button.

59. When prompted by the "Process Complete" mes box that FVSStand is "Finished linking FVS Tre Files", click the "Ok" button to continue.

Status

	FVSSTAND Alone: Generate Dynamic Yield Reports
	File Help
	» FVSSTANU_Wizard - Step 2 of 3
appear on the	Stnd Tbl Header.] Stnd Tbl Body] Stnd Tbl Footer   Aggregate Method   SVS Linkage
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e Suppose Step 1 of the e location of the	
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appear next on the	File Help
Region" under the	» FV35TANU_WIZOU - Step 5 UI 5
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ton.	
	Stand Attribute: Vegetation Classification:
	✓ Stand Age     USFS Region 2     USFS Region 3     USFS Region 4
	Guadade Mean Diameter     JUSFS Region 9     JUSFS Region 9     Plot Count
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	>> Skip >> Cancel < Back Next > Einish
	FVSSTAND Alone: Generate Dynamic Yield Reports
plete" message	File Help wEVSSTAND Wizard - Step 3 of 3
ng FVS Treelist	Select Yield Benot Lavout:
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	>> Skip >> Cancel < Back Next > Einish
■ FVSSTAND Alone: Activity Log This is a log stream from 1	Vield.DLL
- GENERATE STAND TABLES FR	OM FOREST VEGETATION SIMULATOR
Processing	
- Processing Time Cyc	le: 0
Processing Complete.	
- Exit Window: Click "X" i:	a upper right corner.
	*

04-20-2013

6:01 PM

- 60. The FVSStand "Activity Log" window will appear next on the screen. As directed, click the "X" in the *upper right corner of the* window to continue.
- 61. The FVSStand "Print Preview" window will appear next on the screen. Click "Veg Attributes" tab on the upper left menu strip.
- 62. The "**RM\_VSS**" column is displayed toward the right of the print preview window.

Yield Reports Stand Tables Stat Analysis Veg Attributes

Cedro\_Plo\_Veg\_Class.txt Cedro\_Plo\_Veg\_Class\_post.txt Cedro\_Plo\_Veg\_Values.txt

#### Draw <u>₩</u>inSVS

# C:\FVSdata\Cibola\Cedro\_Plo\_Veg\_Class.txt

	PLOT_ID 0303050050470001_0001	CY 0	ST_AGE PVT 0.00 204022	dom_type juno	TREES/A 760.3	C QMD_TOP20 2 6.99	QMD_SIZCL 2.00	CAN_SIZCL 3.00	CAN_COV 16.35	CAN_CLASS 1.00	CAN_STORY 1.00	BA_STORY 2.00	VRT_STORY 2.00	SDI_STORY 2.00	RM_VSS 5ASS	FIA_FTYP 185.00	QJ
	0303050050470001_0002	0	0.00 204022	JUM0_PIED	3653.4	3 7.32	2.00	2.00	59.57	2.00	1.00	2.00	2.00	1.00	4055	185.00	
	0303050050470001_0003	0	0.00 204022	JUMO PIED	1640.2	7 3.47	2.00	2.00	63.87	1.00	2.00	2.00	2.00	2.00	40%%	185.00	
	0303050050470002 0002	ŏ	0.00 204350	JUMO	4764.5	3 6.13	2.00	2.00	56.72	2.00	1.00	2.00	2.00	2.00	40 5 5	185.00	
	0303050050470002_0003	0	0.00 204350	PIED	757.8	6 9.73	2.00	3.00	31.09	2.00	1.00	1.00	2.00	1.00	4B S S	185.00	
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	0303050050470006_0002	0	0.00 204022	JUMO_PIED	1552.8	2 6.00	2.00	2.00	45.78	2.00	1.00	1.00	1.00	1.00	40 5 5	185.00	
	0303050050470006_0003	0	0.00 204022	JUNO	2359.1	7 7.40	2.00	2.00	52.05	2.00	2.00	2.00	2.00	2.00	40.55	185.00	
	0303050050470007_0002	ő	0.00 204022	JUNO	1541.8	6 9.55	2.00	3.00	48.70	2.00	1.00	1.00	2.00	1.00	4055	185.00	
	0303050050470007_0003	0	0.00 204022	JUMO	982.7	2 8.81	2.00	2.00	51.55	2.00	1.00	2.00	2.00	1.00	40 5 5	185.00	
	0303050050470008_0001	0	0.00 204022	JUMO_PIED	2198.9	4 5.66	2.00	3.00	38.27	2.00	2.00	2.00	2.00	2.00	3055	185.00	
	0303050050470008_0002	0	0.00 204022	JUMO_PIED	3835.6	3 5.UI 8 7.49	2.00	2.00	55.27	2.00	2.00	2.00	2.00	2.00	4055	185.00	
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	0303050050470011_0003	0	0.00 204360	JUMO PIED	2597.3	5 5.17 4 5.96	2.00	2.00	41.05	2.00	2.00	2.00	2.00	2.00	3635	185.00	
	0303050050470012_0002	ő	0.00 204022	JUMO PIED	3575.1	4 5.90 7 6.74	2.00	2.00	62.19	3.00	2.00	1.00	2.00	1.00	4055	185.00	
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	0303050050470013_0007	0	0.00 204022	JUNIP_PIED	4568.2	6 6.38	2.00	3.00	55.60	2.00	1.00	2.00	2.00	2.00	4055	185.00	
	0303050050470013_0009	0	0.00 204022	JUMO PIED	3574.0	2 0.03 1 4.58	1.00	1.00	41.10	2.00	1.00	1.00	2.00	2.00	3055	185.00	
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	0303050050470014_0001	0	0.00 204022	JUMO	3178.5	0 6.07	2.00	2.00	47.96	2.00	1.00	2.00	2.00	2.00	40 5 5	185.00	
	0303050050470014_0002	0	0.00 204022	JUMO_PIED	2906.9	/ 4.97	1.00	2.00	40.86	2.00	1.00	1.00	2.00	2.00	4055	185.00	
	0303050050470014_0003	0	0.00 204022	JUMO	4299.8	4 5.11	2.00	2.00	45.92	2.00	1.00	1.00	2.00	1.00	4015	185.00	
	0303050050470014_0005	ō	0.00 204022	PIED	7888.8	9 3.83	1.00	2.00	49.44	2.00	1.00	2.00	2.00	2.00	40 5 5	185.00	
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63. Click the "**Finish**" button.

#### Import FVSStand Veg\_Class Report into a Spreadsheet

64. Navigate to your working folder. Open the "{Keyword\_Filename}\_Veg\_Class.txt" file (e.g. Cedro\_Plo\_Veg\_Class.txt) in your favorite text editor.



65. From the "File" menu, click the "Select All" option.

🔳 Ce	dro_Plo_Veg_	Class.txt - W	ordPad													
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14 03	Cut Copy	Ctrl+X Ctrl+C	СҮ	ST_AGE PVT 0.00 204022	DOM_TYPE JUMO	TREES/AC 760.32	QMD_TOP20 6.99	2MD_SIZCL C	AN_SIZCL	CAN_COV (	AN_CLASS	CAN_STORY	BA_STORY 2.00	VRT_STORY 2.00	SDI_STORY 2.00	RM_VSS
03 03	Paste Paste Special	Ctrl+V	0	0.00 204022 0.00 204022	JUMO_PIED PIED	3653.43 1640.27	7.32 3.47	2.00 1.00	2.00 2.00	59.57 11.83	2.00 1.00	1.00 1.00	2.00	2.00	1.00	4CSS 1
03 03	Clear Select All	Del Ctrl+A	ů	0.00 204350 0.00 204350	JUMO_PIED JUMO	3759.92 4764.53	6.21 6.13	2.00	2.00 2.00	63.87 56.72	3.00 2.00	2.00 1.00	1.00 2.00	1.00 2.00	1.00 2.00	4CSS 4CSS
03 03	Find	Ctrl+F	0	0.00 204350 0.00 204022	PIED NVG	757.86 5.08	9.73 0.00	2.00	3.00 0.00	31.09 3.22	2.00 0.00	1.00 0.00	1.00 0.00	2.00	1.00	4BSS 1
03	Replace	Ctrl+H	0	0.00 204022	NVG JUMO_PIED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
03	Links Object Properti	es Alt+Enter		0.00 204500	JUMO_PIED JUMO_PIED	5135.79 1689.81	4.70	1.00	3.00	37.72	2.00	1.00	2.00	2.00	2.00	5CSS 4CSS
03	Object	005_0001	ļ	0.00 204500	PIED	1301.43 2114.48 2680.50	0.13 3.71 2.77	1.00	2.00	15.13	1.00	1.00	1.00	2.00	2.00	4055
030	3050050470	005_0003	0	0.00 204500	PIED JUMO PIED	3261.59 2498.04	6.26 7.18	2.00	2.00	41.81	2.00	1.00	2.00	2.00	2.00	4CSS 4CSS
030	3050050470 3050050470	006_0002	0	0.00 204022	JUMO_PIED PIED	1552.82 5310.67	6.00 5.51	2.00	2.00	45.78 52.05	2.00	1.00	1.00	1.00	1.00	4CSS 4CSS
030	3050050470 3050050470	007_0001 007_0002	0	0.00 204022 0.00 204022	JUNO JUNO	2359.17 1541.86	7.40 9.55	2.00	2.00 3.00	50.91 48.70	2.00 2.00	1.00 1.00	2.00 1.00	2.00 2.00	1.00 1.00	4CSS 4CSS
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66. From the "Edit" menu, click the "Copy" option. "Minimize" your text editor.

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	03030500505700	12_0007		0.00 011215	PIED	1723.36	7.68	2.00	3.00	38.80	2.00	1.00	1.00	2.00	2.00	4055
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67. Open "MS-Excel".

68. Format cells in "**Column A**" as "**Text**". To do so, click the "**A**" above the left-most column to highlight the entire column. Right mouse click to display a quick-pick pop-up menu. Click "**Format Cells...**".



69. Right mouse click while in "**Column A**". A quick-pick pop-up menu will appear. Gently slide your mouse down the option list passed the "*Paste Options*" to the <u>"A"</u> symbol and select this icon.

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70. Choose "OK" to the Microsoft Excel message regarding "Data on the Clipboard is not the same size and shape as the selected area. Do you want to paste the data anyway?"
71. Clipboard is not the same size and in the same size and its same sincluses and its same

71. Click the "Data" menu. Choose the "Text to Columns" option.

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15	030305005	0470005	0002	0	0.00 204500	PIED	2	2680.50	2.77	1.00	0 1.0	01	0.49	1.00	1.00	1.00	2.00	1.00	1	185.00	61.00	59.00	
16	030305005	0470005	0003	0	0.00 204500	PIED	3	3261.59	6.26	2.0	0 2.0	0 4	1.81	2.00	1.00	2.00	2.00	2.00	4CS	S 185.	00 74.	77.00	:
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24	03030500	0470008	0002	0	0.00 204022	JUMO P	ED	383	5.63	6.01	2.00	2.0	0 55	5.27 2	.00	1.00	2.00 2	2.00	2.00	4CSS	185.00	76.00	
25	03030500	0470008	0003	0	0.00 204022	JUMO P	ED	238	3.48	7.48	2.00	2.0	0 56	5.24 2	.00	2.00	2.00 2	2.00	2.00	4CSS	185.00	62.00	
26	03030500	0470009	0001	0	0.00 204022	JUMO		1301.96	5 8.7	7 2.	00 2.	.00	61.97	3.00	1.0	0 1.00	0 1.00	1.0	0 40	SS 18	5.00 7:	L.00 67	
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72. Step 1 of the "Convert Text to Column Wizard" will appear on the screen. Choose "Fixed width" to properly parse the text into spreadsheet columns. Click "Next".

73. Step 2 of the "Convert Text to Column Wizard" will appear on the screen. Verify that the various text fields are divided appropriately. You can adjust by using the mouse to move the lined-arrow. When satisfied all is correct, click "Next".

74. Step 3 of the "Convert Text to Column Wizard" will appear on the screen. You can review and set the format of each column by clicking the heading of the column and choosing the appreciate format option. When satisfied all is correct. click "Finish".

#### Convert Text to Columns Wizard - Step 1 of 3 **2** | X The Text Wizard has determined that your data is Fixed Width. If this is correct, choose Next, or choose the data type that best describes your data Original data type Choose the file type that best describes your data: O Delimited - Characters such as commas or tabs separate each field. • Fixed width - Fields are aligned in columns with spaces between each field. Preview of selected data: 1 PLOT\_ID 2 0303050050470001\_0001 CY ST\_AGE PVT 0.00 204022 DOM\_TYPE JUMO 0 JUMO PIED 3 0303050050470001 0002 0 0.00 204022 4 0303050050470001 0003 5 0303050050470002 0001 0 0.00 204022 PIED JUMO\_PIED ~ 0 0.00 204350 > Cancel Next > Einish ? X Convert Text to Columns Wizard - Step 2 of 3 This screen lets you set field widths (column breaks). Lines with arrows signify a column break. To CREATE a break line, click at the desired position. To DELETE a break line, double click on the line. To MOVE a break line, click and drag it. Data preview 10 40 60 ST\_AGE PVT PLOT ID DOM TYPE CY 0 0 0 0.00 0303050050470001\_0001 204022 JUMO 0303050050470001\_0002 204022 JUMO\_PIED 0303050050470001 0003 0.00 204022 PIED 0303050050470002\_0001 0.00 204350 JUMO\_PIED v < > Next > Cancel < <u>B</u>ack Einish ?× Convert Text to Columns Wizard - Step 3 of 3 This screen lets you select each column and set the Data Format. Column data format 'General' converts numeric values to numbers, date values to dates, and all remaining values to text. ◯ <u>T</u>ext O Date: MDY ~ Advanced... 🔘 Do not import column (skip) Destination: \$A\$1 Data preview neral General General <u>Ceneral</u> DOM TYPE PLOT\_ID 0303050050470001\_000 0303050050470001\_000 ST AGE PVT C3 0.00 204022 лимо 00000 JUMO\_PIED 303050050470001 0.00 204022 PIED 305005047000 0.00 204350 JUMO\_PIED ¥ > Cancel

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75. Now that your data is separated into columns, you can find "**RM\_VSS**" in "**Column P**". You can format Column P as "**Text**" and center the data if you wish. "**Close**" your text editor.

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3	0303050050470	001_0002	0	0	204022	JUMO_PIED	3653.43	7.32	2	2	59.57	2	1	2	2	1	4CSS	185
4	0303050050470	001_0003	0	0	204022	PIED	1640.27	3.47	1	2	11.83	1	1	2	2	2	1	185
5	0303050050470	002_0001	0	0	204350	JUMO_PIED	3759.92	6.21	2	2	63.87	3	2	1	1	1	4CSS	185
6	0303050050470	002_0002	0	0	204350	JUMO	4764.53	6.13	2	2	56.72	2	1	2	2	2	4CSS	185
7	0303050050470	002_0003	0	0	204350	PIED	757.86	9.73	2	3	31.09	2	1	1	2	1	4BSS	185
8	0303050050470	003_0001	0	0	204022	NVG	5.08	0	0	0	3.22	0	0	0	0	0	1	999
9	0303050050470	003_0002	0	0	204022	NVG	0	0	0	0	0	0	0	0	0	0	1	999
10	0303050050470	003_0003	0	0	204022	JUMO_PIED	115.15	0	1	1	5.21	0	1	. 1	1	1	1	185
11	0303050050470	004_0001	0	0	204500	JUMO_PIED	5135.79	4.7	1	3	37.72	2	1	. 2	2	2	5CSS	185
12	0303050050470	004_0002	0	0	204500	JUMO_PIED	1689.81	8.67	2	2	55.82	2	1	. 2	2	1	4CSS	185
13	0303050050470	004_0003	0	0	204500	PIED	1381.43	8.13	2	2	41.87	2	1	. 1	2	1	4CSS	185
14	0303050050470	005_0001	0	0	204500	PIED	2114.48	3.71	1	2	15.13	1	1	1	2	2	4ASS	185
15	0303050050470	005_0002	0	0	204500	PIED	2680.5	2.77	1	1	10.49	1	1	1	2	1	1	185
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22	0303050050470	007_0003	0	0	204022	JUMO	982.72	8.81	2	2	51.55	2	1	. 2	2	1	4CSS	185
23	0303050050470	008_0001	0	0	204022	JUMO_PIED	2198.94	5.66	2	3	38.27	2	2	2	2	2	3CSS	185
24	0303050050470	008_0002	0	0	204022	JUMO_PIED	3835.63	6.01	2	2	55.27	2	1	. 2	2	2	4CSS	185
25	0303050050470	008_0003	0	0	204022	JUMO_PIED	2383.48	7.48	2	2	56.24	2	2	2	2	2	4CSS	185
26	0303050050470	009_0001	0	0	204022	JUMO	1301.96	8.77	2	2	61.97	3	1	. 1	1	1	4CSS	185
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#### Create Base.kcp Addfile (optional)

- 76. Select the "**Set inventory year**" entry on the main Suppose window.
- 77. Click the "**Write**" button toward the lower-middle portion of the Suppose window.
- 78. The "Write to file" window appears. Provide a file name in the text box (i.e. *Base*).
- 79. Click the "Save" button.

- 80. Select the "**Set the number of cycles**" entry on the main Suppose window.
- 81. Click the "**Append**" button toward the lowermiddle portion of the Suppose window.
- 82. The "**Append to file**" window appears. Click the "**Base.kcp**" file.
- 83. Click the "Open" button.
- 84. Repeat *Steps 80-83* for "Set time interval for a cycle", "Delete Base Model Report", and "Build FVSStand Alone Treelist" entries.



### III. FVS/VSS Analysis: At the Forest Stand

Follow these steps to process individual stands:

## Stand Selection (a.k.a. Stand Level - polygon)

- 1. Select "**Preferences**" on the main menu bar in Suppose.
- 2. Select "Suppose Preferences" menu option.

- 3. The "**Process plots as stands**" Suppose preference should be set to "**No**".
- 4. Click the "**Apply**" button.
- 5. Click the "**Close**" button to return to the main Suppose window.

- 6. Select "File" on the main menu bar in Suppose
- 7. Click "**New**" to clear previous simulation from memory.
- 8. Select "File" on the main menu bar in Suppose.
- 9. Click "Open Locations File".
- 10. Navigate to your *project folder* (i.e. C:\FVSData\Cibola\Cedro).
- 11. Select the "Suppose.loc" file.
- 12. Click the "**Open**" button.
- 13. In the left window pane, under the "Pick Locations First" header, select "**FSVEG**".
- 14. In the middle window pane, under the "Pick Groups First header, select "**All\_Stands**".
- 15. In the right window pane, click the "All Stands" button to select all inventory points.
- 16. Click the "**Add ### Stands**" button.
- 17. Click the "Close" button.

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### Insert Base.kcp Addfile (optional)

- Click the "Insert From File" button on the main Suppose window to include keyword entries created during the "Within Stand Level" run.
- 19. The "**Insert component from file**" window will appear. Select "**Base.kcp**".
- 20. Click "**Open**".

21. The "Set inventory year", "Set the number of cycles", "Set time interval for a cycle", "Delete Model Report", and "Build FVSStand Alone Treelist" entries are inserted under the "Group:All" label.

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**Note**: The "*Stand Level*" processing is exactly the same as the "*Within Stand Level*" processing procedures. Pick up the individual steps beginning with <u>Step 41 on Page 4 - Select Post Processors</u> of this document.

#### IV. FVS/VSS Analysis: Amongst Many Forest Stands

Follow these steps to process many stands:

#### Multiple Stand Selection (a.k.a. Project Level – component, watershed)

- 1. Navigate to your *working folder*.
- 2. **Open** the *spreadsheet* containing the *individual inventory point data* (i.e. Cedro\_plt.xlsx).
- 3. Position mouse in *Row 1* of "RM\_VSS" column, highlight its title.
- 4. Click "Data" menu, "Sort" icon.
- 5. Click down arrow of "Sort by" text box and choose "RM\_VSS".

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- 6. Click the "OK" button of the "Sort" window.
- 7. Click "Data" menu, "Subtotal" icon.
- 8. Under "Add subtotal to" listing, click checkmark next to "PROJ\_YEAR" to deselect.
- 9. Scroll up to the "**RM\_VSS**" item and select to check.
- 10. Under "Use function" listing, use the down arrow in the text box to select the "Count" option.
- 11. Under "At each change in" listing, use the down arrow in the text box to select the "RM\_VSS" option.
- 12. Click the "OK" button.

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# 13. Click the " $\underline{2}$ " button located on the left corner of the subtotal spreadsheet.

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	•	19	0303050050470029_0001	(	0 (	204022	PIED	368.39	0	1	1	8.16	0	1	1	1	1	1	
	•	20	0303050050500001_0001	(	D (	204022	NVG	16.27	0	0	0	5.59	0	0	0	0	0	1	
	•	21	0303050050500010_0001	(	0 (	204360	NVG	21.74	0	0	0	9.02	0	0	0	0	0	1	
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#### 14. Column "O" contains the number of inventory point by VSS class.



15. To edit the subtotals, *select* associated columns and rows. Right mouse *click* to *pop menu*. Click "Copy".



16. In WordPad, "Edit" menu, "Paste Special", "Unformatted Text".



- 17. There is a hard "Tab" character between the "Count" label and inventory plot count.
- 18. Simply use the "Delete" key on your keyboard to remove.19. Replace with a "Space" key on your keyboard.
- 20. Values can now be copy and paste into MS-Word or MS-Excel for further processing.

### **Considerations**:

1. RM\_VSS by Forest Type:

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2. FSVeg Forest Type = Society of American Foresters Classification.

## Forest Cover Types of the Society of American Foresters (SAF)

Code	Description		Code	Description
00	Non Forest Ttypes		16	Aspen
01	Jack Pine		17	Pin cherry
05	Balsam Fir	Γ	18	Paper birch
12	Black Spruce		19	Gray birch-red maple
13	Black spruce – tamarack		20	White pine-northern red oak-red maple
14	Northern pin oak		21	Eastern white pine
15	Red pine		22	Eastern pine-hemlock

E-12

User Guide Appendices

Appendix E: Existing Vegetation References and Codes

#### Forest Cover Types of the Society of American Foresters (SAF) (cont.)

Code	Description	Code	Description
23	Eastern hemlock	76	Shortleaf pine-oak
24	Hemlock-yellow birch	79	Virginia pine
25	Sugar maple-beech-yellow birch	80	Loblolly pine- shortleaf pine
26	Sugar maple-basswood	81	Loblolly pine
27	Sugar maple	83	Longleaf pine- slash pine
28	Black cherry-maple	84	Slash pine
30	Red spruce-yellow birch	98	Pond pine
31	Red spruce-sugar maple-beech	108	Red maple
32	Red spruce	111	South Florida slash pine
33	Red spruce-balsam fir	201	White spruce
34	Red spruce-Fraser fir	203	Balsam poplar
35	Paper birch-red spruce-balsam fir	205	Mountain hemlock
37	Northern white-cedar	206	Engelmann spruce - subalpine fir
38	Tamarack	208	Whitebark pine
39	Black ash-American elm-red maple	209	Bristlecone pine
40	Post oak-blackjack oak	210	Interior Douglas-fir
42	Bur oak	211	White fir- limber pine
43	Bear oak	211	White fir
44	Chestnut oak	212	Western larch
45	Pitch pine	213	Grand fir
46	Eastern red cedar	215	Western white pine
50	Black locust	216	Blue spruce
51	White pine-chestnut oak	217	Aspen - Western forests - Middle
			elevation - Interior
52	White oak-black oak-northern red oak	218	Lodgepole pine
53	White oak	219	Limber pine
55	Northern red oak	220	Rocky Mountain juniper
57	Yellow poplar	224	Western hemlock
58	Yellow poplar - eastern hemlock	225	Western hemlock - Sitka spruce
59	Yellow poplar - white oak - northern red oak	227	Western redcedar - western hemlock
60	Beech-sugar maple	228	Western redcedar
61	River birch - sycamore	230	Douglas-fir - western hemlock
62	Silver maple- American elm	235	Cottonwood - willow
63	Cottonwood	236	Bur oak - Western forests - Low elevation -
			Interior
64	Sassafras- persimmon	237	Interior ponderosa pine
65	Pin oak - sweetgum	238	Western juniper
66	Ashe juniper-redberry (Pinchot) juniper	239	Pinyon - juniper
67	Mohrs (shin) oak	240	Arizona cypress
68	Mesquite	241	Western live oak
69	Sand pine	242	Mesquite
70	Longleaf pine	251	White spruce - aspen
75	Shortleaf pine	252	Paper birch

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0303050050470004_0002 2013 0 PJ			9.44 0.00 0.0 4.9 14.7 140.0 20.0 0.0
0303050050470004_0003 2013 0 PJ	0.0 900.0 0.0 456.0 25.5 0	0.00 0.00 0.00 0.00 88.09	11.91 0.00 0.0 4.9 0.0 120.0 20.0 0.0
0303050050470005_0001 2013 0 PJ	0.0 2000.0 0.0 99.3 15.2 0	0.00 0.00 0.00 0.00 71.25	28.75 0.00 0.0 10.9 0.0 20.0 10.0 0.0
0303050050470005_0002 2013 0 PJ	0.0 2600.0 0.0 73.3 7.2 0	0.00 0.00 0.00 0.00 61.29	38.71 0.00 0.0 14.2 0.0 10.0 10.0 0.0
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