

# Scope & Group Tutorial

# Learning Objectives

- To understand how the Scope & Group tool relates to LMS and the “toggle” spreadsheet tool.
- To understand how Scope & Group helps use information from LMS to analyze a landscape.
- To understand how to “load” the Scope & Group spreadsheet with information from LMS.
- Demonstrate Scoping process.
- Demonstrate Grouping process.

# Purpose of Scope & Group

- Scope & Group is a decision support tool – currently implemented as an Microsoft Excel workbook with multiple linked worksheets.
- Using summary information from LMS, Scope & Group helps stratify a landscape into ecologically similar groups of stands by providing a number of charts and graphs that provide descriptive information about a landscape.
- This information can be used to group individual stands into a limited number (6 in this example) of groups for further analysis of possible silvicultural pathways using “toggle”.

# Why Group Stands?

- Grouping stands allows you to work with a manageable amount of information. The goal of the grouping process is to minimize the variation within each group. It is not possible to eliminate variation, and indeed, there will be more variation in each group than within each stand.
- The systems concept supports making this “complexity/variation” tradeoff to better understand the system. We accept the loss of variation to assist in the analysis and adaptive management of the system.

# Key Steps in Scope & Group

*Transfer information from LMS to the INSERT DATA and LANDSCAPE SUMMARY worksheets*

INSERT  
DATA

LANDSCAPE  
SUMMARY

*RAW GROUPS is where groups are defined based on the examination of the GRAPHS, TABLES, and VARIABLES worksheets*

RAW  
GROUPS

GRAPHS

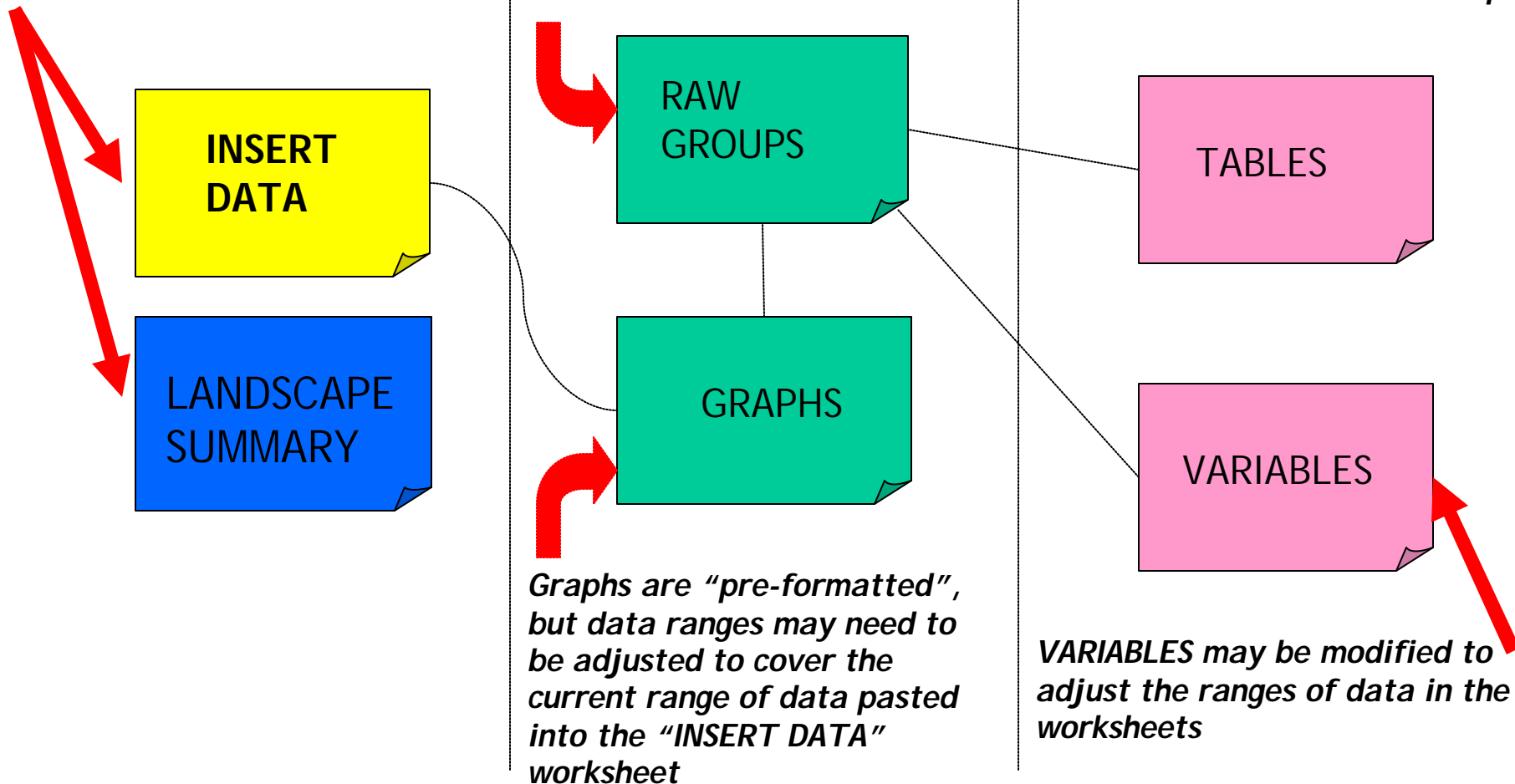
*Graphs are “pre-formatted”, but data ranges may need to be adjusted to cover the current range of data pasted into the “INSERT DATA” worksheet*

*TABLES requires no modification, it draws on data from other sheets and provides you with useful information about the landscape*

TABLES

VARIABLES

*VARIABLES may be modified to adjust the ranges of data in the worksheets*



# Information Requirements for Scope & Group

The Scope & Group spreadsheet requires input from the following three LMS tables:

- Attributes Table
- Consequences Table (trimmed down)
- Summary Table

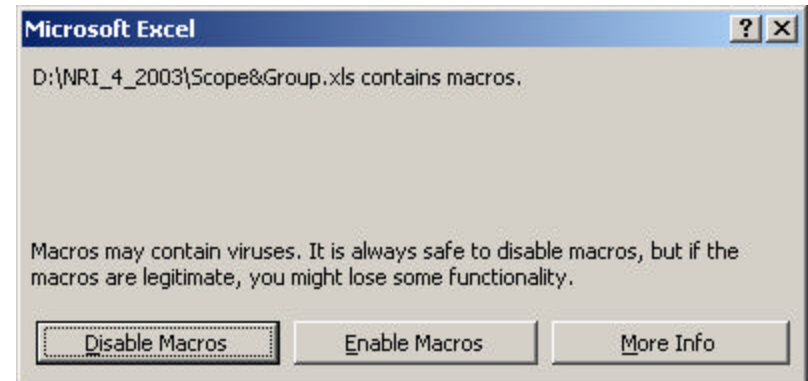
The following steps will facilitate the input of necessary data into Scope & Group from LMS

# Open Scope & Group spreadsheet

Open the Scope&Group.xls file provided. This is a large spreadsheet that will take a few moments to open. After it begins to open you will see a warning about macros contained in the spreadsheet. These macros are required to run the functions of the spreadsheet.

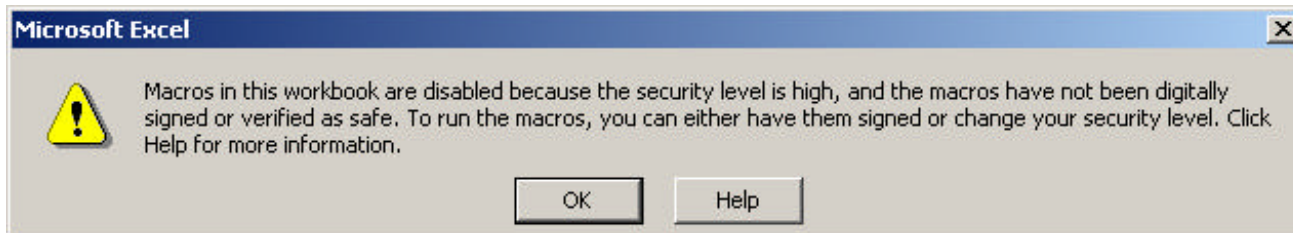
Select Enable Macros to use the features of the spreadsheet.

If this dialog does not appear the security settings will need to be modified for Excel.



# Macro Security Settings

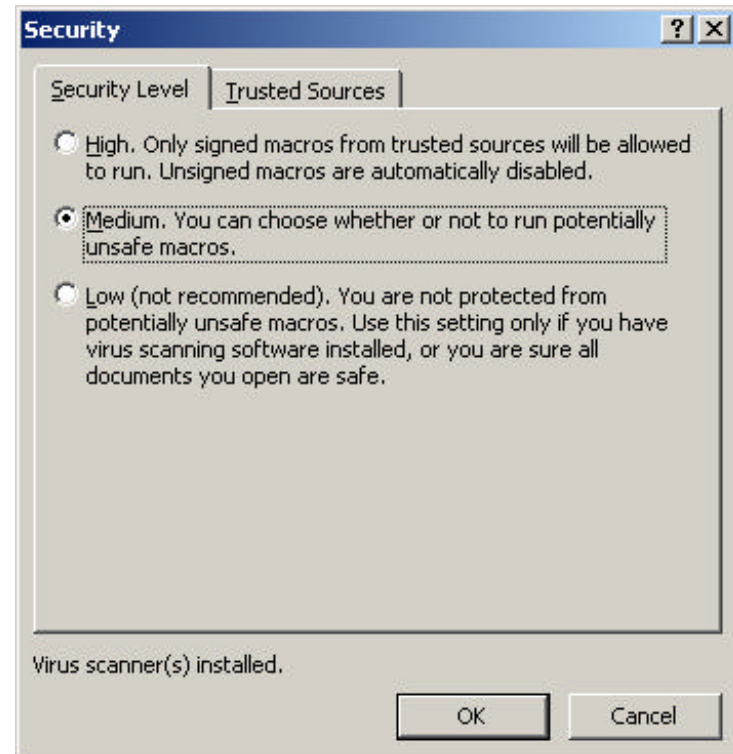
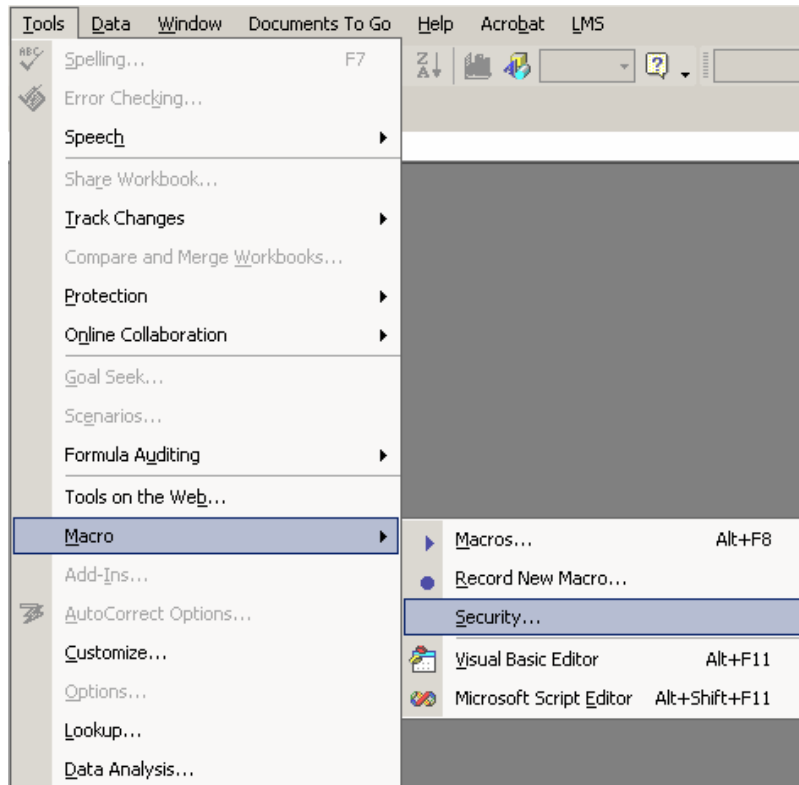
The Macro Security Settings may be set to high, disabling the macros required to use this spreadsheet. If you see the following dialog, the security settings on your computer need to be changed.





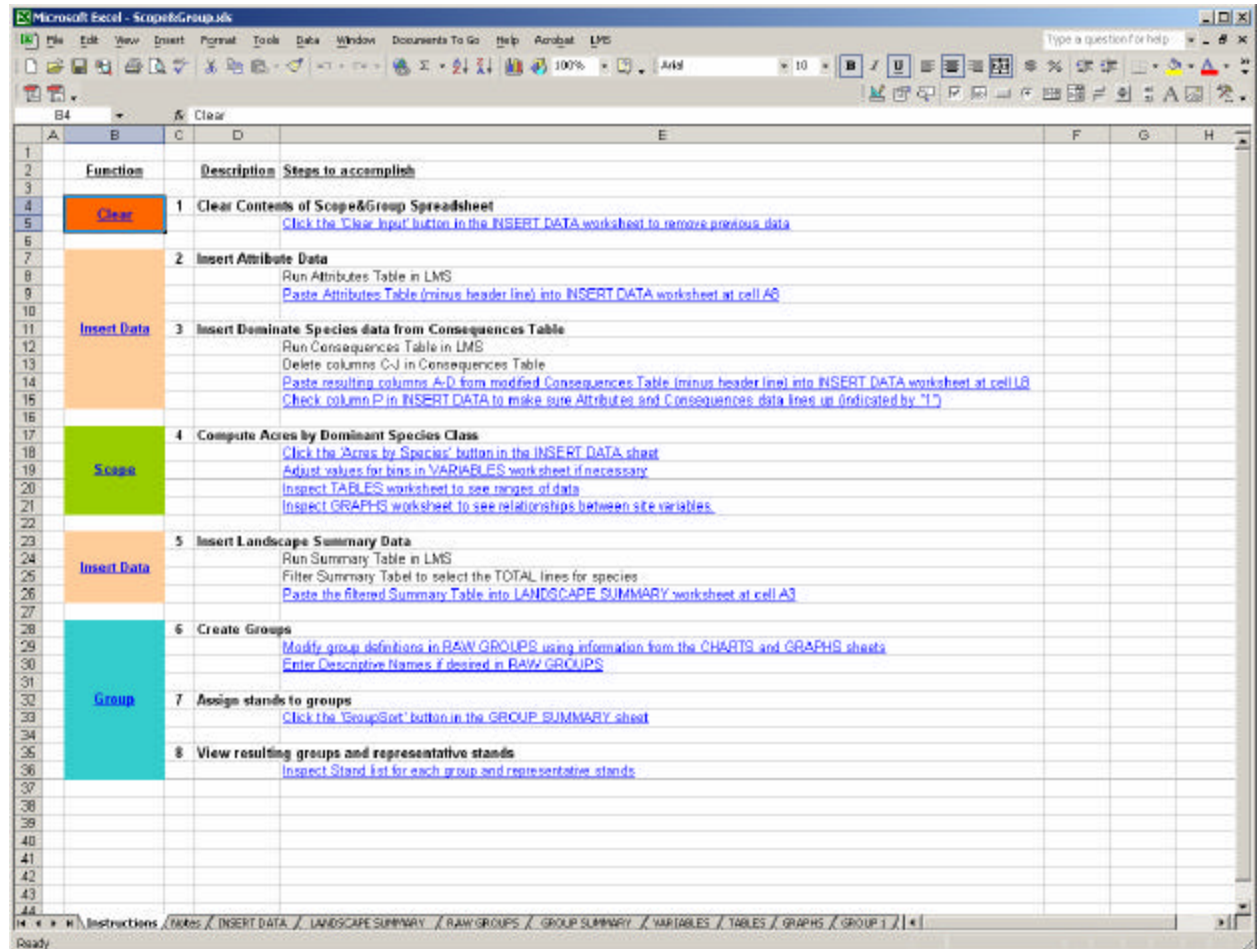
# Changing Macro Security Settings

Select the Tools/Macro/Security menu item to change the Security Level. Select Medium in the dialog and press the OK button.



# Start at Instructions worksheet

The Instructions worksheet can be used to navigate the functions of the Scope & Group spreadsheet.

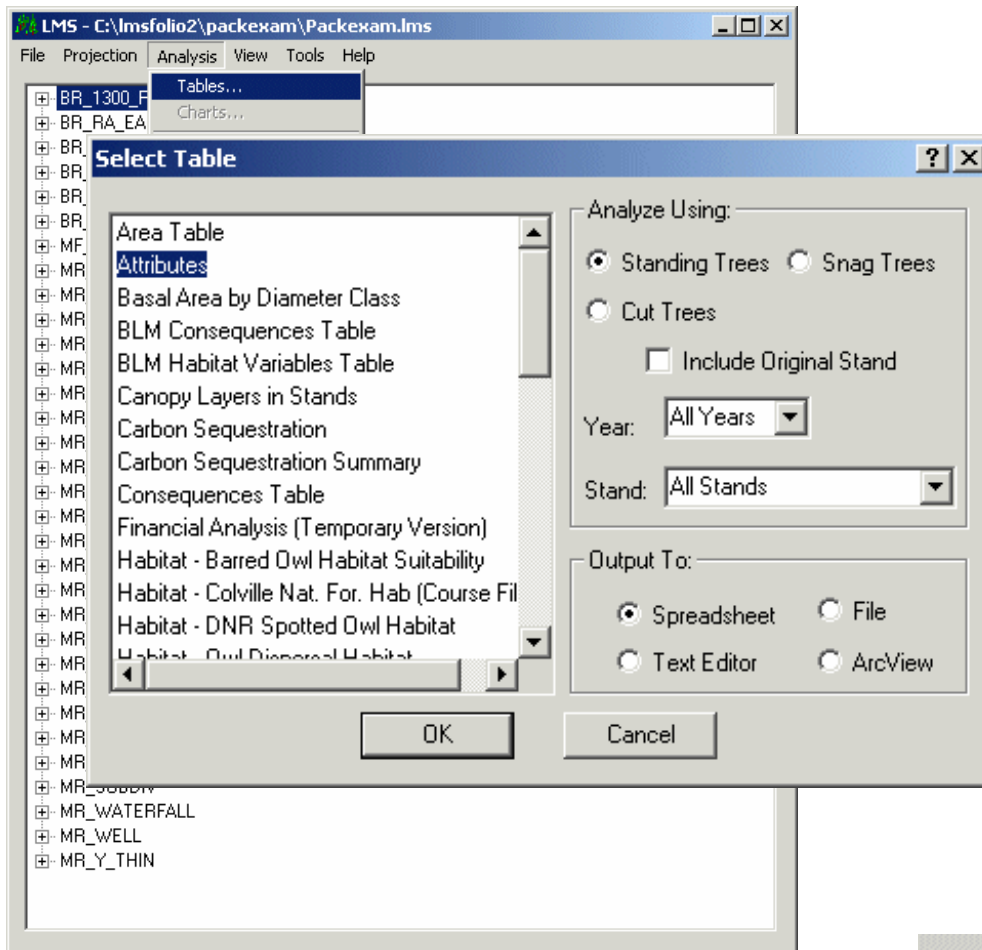


Function	Description	Steps to accomplish
Clear	1 Clear Contents of Scope&Group Spreadsheet	Click the "Clear Input" button in the INSERT DATA worksheet to remove previous data
Insert Data	2 Insert Attribute Data	Run Attributes Table in LMS Paste Attributes Table (minus header line) into INSERT DATA worksheet at cell A6
Insert Data	3 Insert Dominate Species data from Consequences Table	Run Consequences Table in LMS Delete columns C-J in Consequences Table Paste resulting columns A-D from modified Consequences Table (minus header line) into INSERT DATA worksheet at cell I8 Check column P in INSERT DATA to make sure Attributes and Consequences data lines up (indicated by "1")
Scope	4 Compute Acres by Dominant Species Class	Click the "Acres by Species" button in the INSERT DATA sheet Adjust values for bins in VARIABLES worksheet if necessary Inspect TABLES worksheet to see ranges of data Inspect GRAPHS worksheet to see relationships between site variables
Insert Data	5 Insert Landscape Summary Data	Run Summary Table in LMS Filter Summary Table to select the TOTAL lines for species Paste the filtered Summary Table into LANDSCAPE SUMMARY worksheet at cell A3
Group	6 Create Groups	Modify group definitions in RAW GROUPS using information from the CHARTS and GRAPHS sheets Enter Descriptive Names if desired in RAW GROUPS
Group	7 Assign stands to groups	Click the "GroupSort" button in the GROUP SUMMARY sheet
Group	8 View resulting groups and representative stands	Inspect Stand list for each group and representative stands

# Insert Data into Scope & Group

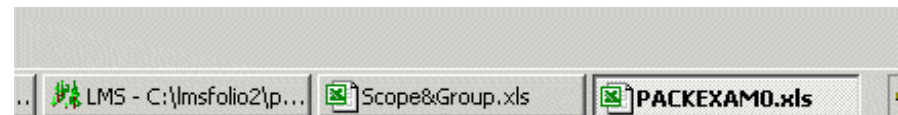
- Run Attributes table in LMS and insert into INPUT DATA worksheet.
- Run Consequences table in LMS and insert part of the table into INPUT DATA worksheet.
- Run Summary table in LMS and insert data into the LANDSCAPE SUMMARY worksheet.

# Attributes table



Retrieve the Attributes table from LMS

After requesting the table Excel will not come up on top of other applications, rather it will open another window which you will notice on the task bar. Click on the new task bar icon to open the spreadsheet.



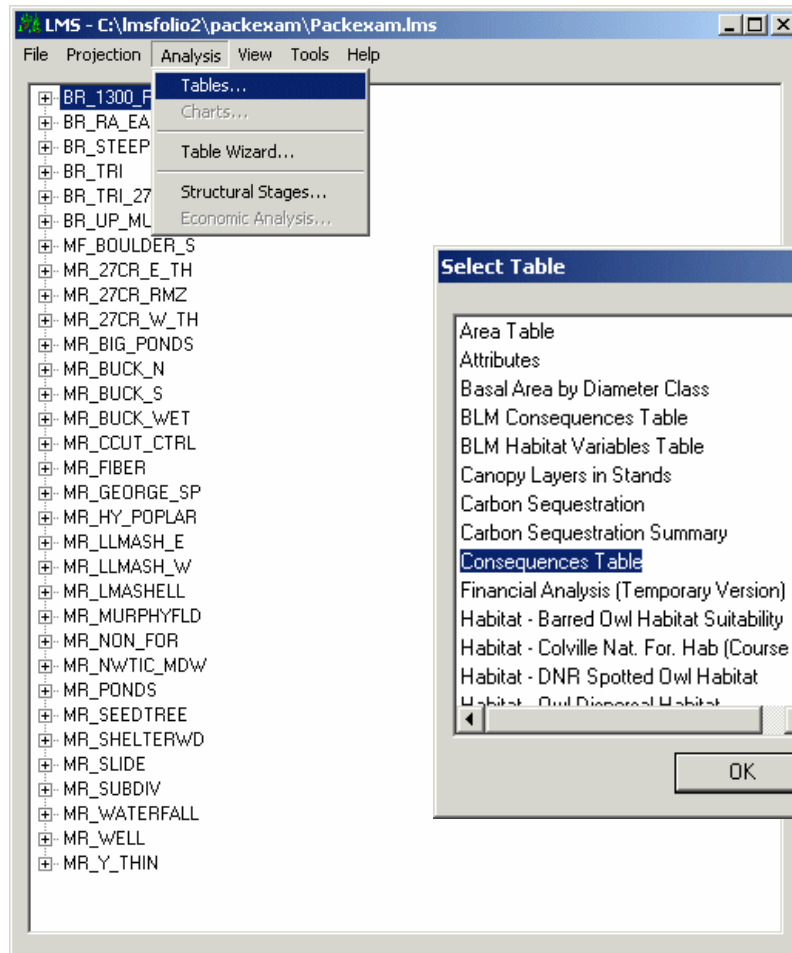
# Paste Attributes Table

Stand	Plots	Location	SiteIndex	HabitatCo	Age	Slope	Aspect	Elev	Lat	Acres
BR_1300	1	0	120	0	9	28.1	249.1	1509.1	0	15.2
BR_RA_E	1	0	120	0	67	21.7	262	1367.6	0	17.7
BR_STEE	1	0	120	0	72	13.1	187.6	1244.9	0	58.6
BR_TRI	1	0	105	0	67	24.5	202.8	1428.3	0	35.4
BR_TRI2	1	0	105	0	67	33.1	160.6	1493.1	0	13.8
BR_UP_M	1	0	120	0	67	32.9	174.4	1525.2	0	78
MF_BOUL	1	0	85	0	5	9.9	275.7	999.5	0	14.1
MR_27CR	1	0	120	0	67	9.3	224.2	1075.3	0	3.5
MR_27CR	1	0	120	0	1	11.6	222.3	1017.8	0	15.8
MR_27CR	1	0	120	0	67	5.6	309.2	1051.4	0	1.6
MR_BIG_F	1	0	105	0	1	16.6	164.4	1208.1	0	60.4
MR_BUCK	1	0	105	0	1	17.4	265.6	1034.2	0	14.2
MR_BUCK	1	0	105	0	1	17.3	202.7	1138.9	0	15.6
MR_BUCK	1	0	105	0	10	22.8	179	1083.1	0	16.4
MR_COUT	1	0	105	0	8	7.2	206.3	1170.4	0	13.7
MR_FIBEF	1	0	105	0	1	9.5	233.2	1201.4	0	9.2
MR_GEOF	1	0	105	0	11	16.6	195.8	875.2	0	64.2
MR_HY_F	1	0	105	0	25	3.8	37.5	1167.3	0	2.6
MR_LLMA	1	0	105	0	62	26.5	189.1	849.9	0	64
MR_LLMA	1	0	120	0	62	20.4	190.2	1087.6	0	20
MR_LMAS	1	0	120	0	4	22.3	171.4	890	0	24.9
MR_MURI	1	0	0	0	1	6.2	171.3	1174.9	0	26.9
MR_NON	1	0	0	0	1	4.2	265.4	1190.7	0	3.7
MR_NWT	1	0	105	0	1	17.5	244	1246.7	0	13.2
MR_PONI	1	0	105	0	1	10.2	236.2	1150.1	0	5
MR_SEEL	1	0	120	0	1	8.7	116.2	1145.2	0	8
MR_SHEL	1	0	105	0	8	10.8	281.7	1133.2	0	9.4
MR_SLIDE	1	0	105	0	1	12.8	200.4	1100.2	0	8.3
MR_SUBE	1	0	105	0	1	21	203.6	918.8	0	27.4
MR_WATI	1	0	112	0	67	41.8	272.7	971.5	0	8.2
MR_WELL	1	0	120	0	67	17.8	172.7	1006.1	0	25.4
MR_Y_TH	1	0	105	0	67	12.5	130.7	1237.2	0	6.7

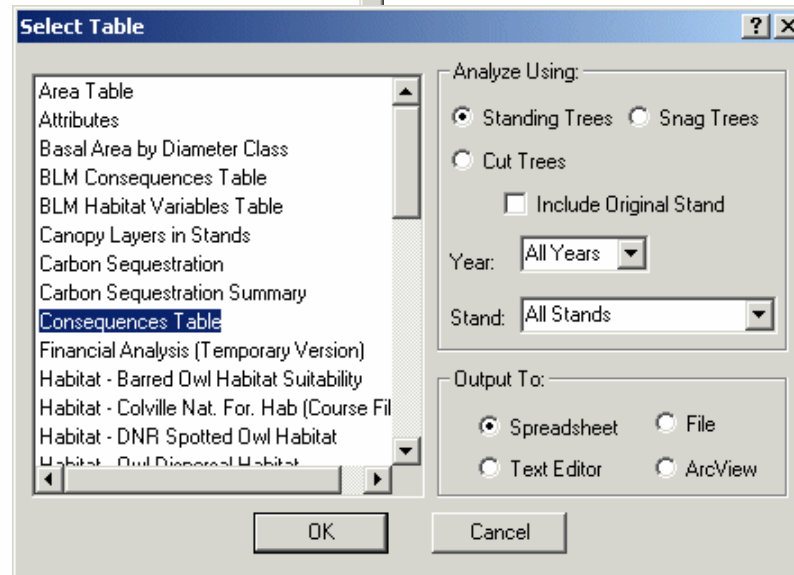
Stand	Plots	Location	SiteIndex	HabitatCode	Age	Slope	Aspect	Elev	Lat	Acres	Year	Stand	SPP	ProportionWood	Data Check	Species	Acres By Species
BR_1300	1	0	120	0	9	28.1	249.1	1509.1	0	15.2							
BR_RA_E	1	0	120	0	67	21.7	262	1367.6	0	17.7							
BR_STEE	1	0	120	0	72	13.1	187.6	1244.9	0	58.6							
BR_TRI	1	0	105	0	67	24.5	202.8	1428.3	0	35.4							
BR_TRI2	1	0	105	0	67	33.1	160.6	1493.1	0	13.8							
BR_UP_M	1	0	120	0	67	32.9	174.4	1525.2	0	78							
MF_BOUL	1	0	85	0	5	9.9	275.7	999.5	0	14.1							
MR_27CR	1	0	120	0	67	9.3	224.2	1075.3	0	3.5							
MR_27CR	1	0	120	0	1	11.6	222.3	1017.8	0	15.8							
MR_27CR	1	0	120	0	67	5.6	309.2	1051.4	0	1.6							
MR_BIG_F	1	0	105	0	1	16.6	164.4	1208.1	0	60.4							
MR_BUCK	1	0	105	0	1	17.4	265.6	1034.2	0	14.2							
MR_BUCK	1	0	105	0	1	17.3	202.7	1138.9	0	15.6							
MR_BUCK	1	0	105	0	10	22.8	179	1083.1	0	16.4							
MR_COUT	1	0	105	0	8	7.2	206.3	1170.4	0	13.7							
MR_FIBEF	1	0	105	0	1	9.5	233.2	1201.4	0	9.2							
MR_GEOF	1	0	105	0	11	16.6	195.8	875.2	0	64.2							
MR_HY_F	1	0	105	0	25	3.8	37.5	1167.3	0	2.6							
MR_LLMA	1	0	105	0	62	26.5	189.1	849.9	0	64							
MR_LLMA	1	0	120	0	62	20.4	190.2	1087.6	0	20							
MR_LMAS	1	0	120	0	4	22.3	171.4	890	0	24.9							
MR_MURI	1	0	0	0	1	6.2	171.3	1174.9	0	26.9							
MR_NON	1	0	0	0	1	4.2	265.4	1190.7	0	3.7							
MR_NWT	1	0	105	0	1	17.5	244	1246.7	0	13.2							
MR_PONI	1	0	105	0	1	10.2	236.2	1150.1	0	5							
MR_SEEL	1	0	120	0	1	8.7	116.2	1145.2	0	8							
MR_SHEL	1	0	105	0	8	10.8	281.7	1133.2	0	9.4							
MR_SLIDE	1	0	105	0	1	12.8	200.4	1100.2	0	8.3							
MR_SUBE	1	0	105	0	1	21	203.6	918.8	0	27.4							
MR_WATI	1	0	112	0	67	41.8	272.7	971.5	0	8.2							
MR_WELL	1	0	120	0	67	17.8	172.7	1006.1	0	25.4							
MR_Y_TH	1	0	105	0	67	12.5	130.7	1237.2	0	6.7							

Select the body (no headers) of the attributes data and paste into cell A8 of INSERT DATA worksheet.

# Consequences Table



Retrieve the Consequences Table from LMS.





# Trim Consequences Table

Year	Stand	Acres	InitAge	Oliver5c	HCSSPT	Carey	StandingY	CutVol	VolGrowth	DomSPP	SPP
2000	BR_1300	15.2	9	2_SE	2_SE	1_SI	634.95	0	0	DF	Mist
2000	BR_RA_E	17.7	67	2_SE	3_UR	1_SI	25806.95	0	0	MRACH	Mist
2000	BR_STEE	58.6	72	2_SE	4_DEU	2_ES	26890.54	0	0	MWHYC	Mist
2000	BR_TRI	35.4	67	2_SE	5_DIU	2_ES	24590.55	0	0	MWHRA	Mist
2000	BR_TRL2	13.8	67	3_UR	7_DIM	3_UR	55071.21	0	0	DF	Mist
2000	BR_UP_M	78	67	3_UR	6_DEM	2_ES	41131.29	0	0	MWHMH	Mist
2000	MF_BOUL	14.1	5	1_SI	1_SI	1_SI	1546	0	0	MWHRC	Mist
2000	MR_27CR	3.5	67	3_UR	5_DIU	2_ES	44775.15	0	0	DF	Mist
2000	MR_27CR	15.8	1	5_OG	7_DIM	2_ES	63951.68	0	0	MWHCW	Mist
2000	MR_27CR	1.6	67	5_OG	4_DEU	2_ES	44361.64	0	0	MWHRC	Mist
2000	MR_BIG_F	60.4	1	2_SE	3_UR	2_ES	9688.09	0	0	MRABM	Mist
2000	MR_BUCH	14.2	1	1_SI	1_SI	1_SI	396.86	0	0	DF	Mist
2000	MR_BUCH	15.6	1	2_SE	2_SE	1_SI	1643.98	0	0	DF	Mist
2000	MR_BUCH	16.4	10	1_SI	1_SI	1_SI	0	0	0	MRADF	Mist
2000	MR_CCUJ	13.7	8	2_SE	2_SE	1_SI	0	0	0	DF	Mist
2000	MR_FIBEF	9.2	1	2_SE	2_SE	2_ES	8816.58	0	0	CW	Mist
2000	MR_GEOF	64.2	11	2_SE	2_SE	1_SI	1838.21	0	0	DF	Mist
2000	MR_HY_F	2.6	25	2_SE	2_SE	2_ES	7957.11	0	0	CW	Mist
2000	MR_LLMA	64	62	2_SE	5_DIU	2_ES	27965.06	0	0	DF	Mist
2000	MR_LLMA	20	62	1_SI	1_SI	1_SI	0	0	0	MXX	Mist
2000	MR_LLMA	24.9	4	1_SI	1_SI	1_SI	0	0	0	DF	Mist
2000	MR_MUR	26.9	1	1_SI	1_SI	1_SI	0	0	0	MXX	Mist
2000	MR_NON	3.7	1	1_SI	1_SI	1_SI	0	0	0	MXX	Mist
2000	MR_NWT	13.2	1	2_SE	2_SE	2_ES	6644.3	0	0	DF	Mist
2000	MR_PONI	5	1	2_SE	2_SE	2_ES	3225.25	0	0	MWICW	Mist
2000	MR_SEED	8	1	1_SI	1_SI	1_SI	0	0	0	MGCRA	Mist
2000	MR_SHEL	9.4	8	4_SV	1_SI	1_SI	9591.14	0	0	DF	Mist
2000	MR_SLID	8.3	1	1_SI	1_SI	1_SI	0	0	0	MXX	Mist
2000	MR_SUBD	27.4	1	3_UR	5_DIU	3_UR	40379.86	0	0	DF	Mist
2000	MR_WAT	8.2	67	2_SE	3_UR	2_ES	27380.28	0	0	MRABM	Mist
2000	MR_WELL	25.4	67	1_SI	1_SI	1_SI	0	0	0	DF	Mist
2000	MR_Y_TH	6.7	67	2_SE	2_SE	1_SI	13989.24	0	0	DF	Mist

Year	Stand	DomSPP	SPPMix	HD100	HT100	TPA	SnagBA	Snags_pe	LogBA_pe	Log_per_A	Stan
2000	BR_1300_DF	Missing	51.56	34.29	378.27	9.01	17	2.52	10.2		
2000	BR_RA_E MRACH	Missing	70.95	91.3	127.32	0	0	0	0		
2000	BR_STEE MWHYC	Missing	72.49	93.57	220.77	0	0	0	0	0	1
2000	BR_TRI MWHRA	Missing	77.49	106.6	230.96	2.52	10.2	2.52	10.2	1	
2000	BR_TRL2 DF	Missing	80	132.83	165.15	0	0	0	0	0	
2000	BR_UP_M MWHMH	Missing	71.69	110.12	180.66	2.52	10.2	2.52	10.2	1	
2000	MF_BOUL MWHRC	Missing	73.73	21.86	149.18	0	0	0	0	0	
2000	MR_27CR DF	Missing	102.37	127.54	418.25	0	0	0	0	0	
2000	MR_27CR MWHCW	Missing	67.57	117.49	274.14	0	0	0	0	0	
2000	MR_27CR MWHRC	Missing	98.85	109.81	166.17	0	0	0	0	0	
2000	MR_BIG_F MRABM	Missing	68.42	70.89	336.58	0	0	0	0	0	3
2000	MR_BUCH DF	Missing	70.58	35.29	308.1	0	0	0	0	0	
2000	MR_BUCH MRADF	Missing	56.38	40.43	832.59	0	0	0	0	0	
2000	MR_CCUJ DF	Missing	77.72	5.15	300	0	0	0	0	0	
2000	MR_FIBEF CW	Missing	47.24	28.7	566.8	0	0	0	0	0	
2000	MR_GEOF DF	Missing	109.46	77	1159.71	0	0	0	0	0	
2000	MR_HY_F CW	Missing	64.23	45.76	518.38	0	0	0	0	0	1
2000	MR_LLMA DF	Missing	89.11	82.83	440.12	0	0	0	0	0	
2000	MR_LLMA MXX	Missing	78.41	110.56	217.02	0	0	0	0	0	2
2000	MR_LLMA MXX	Missing	0	0	0	0	0	0	0	0	
2000	MR_LLMA DF	Missing	74.64	24.34	513.46	2.52	10.2	0	0	0	
2000	MR_MUR MXX	Missing	0	0	0	0	0	0	0	0	
2000	MR_NON MXX	Missing	0	0	0	0	0	0	0	0	
2000	MR_NWT DF	Missing	67.37	50.64	628.18	0	0	0	0	0	
2000	MR_PONI MWICW	Missing	67.16	45.34	1217.13	0	0	0	0	0	
2000	MR_SEED MGCRA	Missing	69.15	24.59	327.13	0	0	0	0	0	
2000	MR_SHEL DF	Missing	86.67	26.14	128.65	0	0	0	0	0	
2000	MR_SLID MXX	Missing	0	0	0	0	0	0	0	0	
2000	MR_SUBD DF	Missing	73.01	104.74	149.03	2.92	16.8	1.43	5.5		
2000	MR_WAT MRABM	Missing	70.77	98.7	127.17	0	0	0	0	0	
2000	MR_WELL DF	Missing	81.6	4.93	300	0	0	0	0	0	
2000	MR_Y_TH DF	Missing	146.96	62.67	267.69	2.52	10.2	2.52	10.2		

Delete columns C-J (Acres thru VolGrowth). Highlight and copy the first four columns of the body of the consequences table.

Microsoft Excel - Scopes/Groups.xls

File Edit View Insert Format Tools Data Window Documents To Go Help About MS Excel

Type a question for help

75%

LS

2000

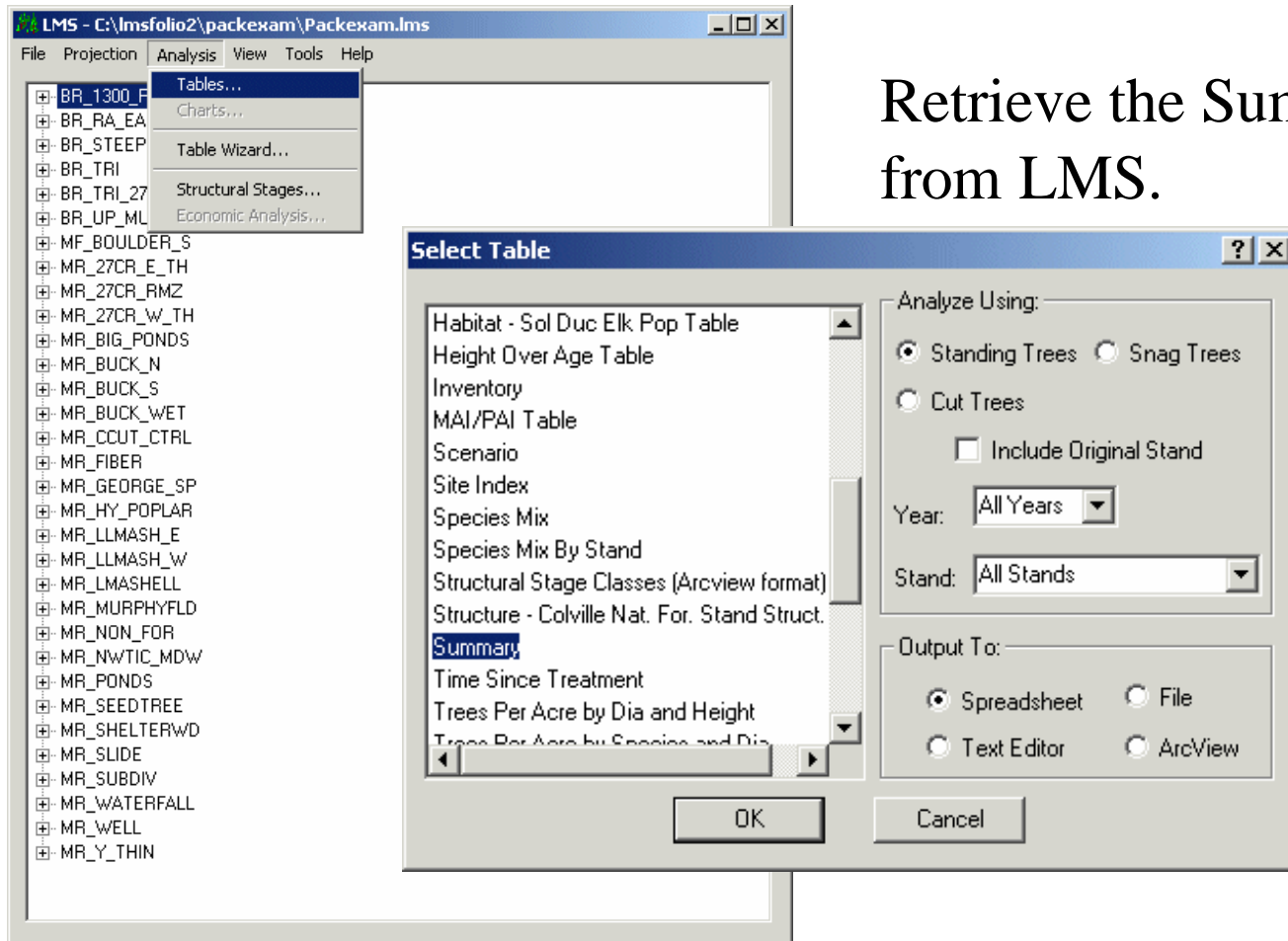
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1					Georing				Notes/Instructions								Notes/Instructions				Access By Species					
2																										
3	DOMINANT SPECIES TABLE FROM COMPREHENSIVE TABLE																									
4	Stand	Plot Location	SiteIndex	HabitatCode	Age	Slope	Aspect	Dist	Lat	Acres	Year	Stand	SPP	ProportionHabitat	Data Check											
5																										
6																										
7																										
8	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
9	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
10	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
11	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
12	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
13	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
14	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
15	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
16	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
17	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
18	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
19	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
20	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
21	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
22	DR_BROKROAD	1	0	300	0	0	280	289.1	308.1	0	350	206	DR_BROKROAD	DF	NotAvailable											
23	DR_BROKROAD	1	0	300	0	0	280	289.1																		

“1” indicating that all the stand names match between the two tables.



# Summary Table

Retrieve the Summary Table from LMS.



# Filter Summary Table

A	B	C	D	E	F	G	H	I	J	K	L
Year	Brand	Species	CBH	AvgCBH	TPA	AvgH	TBA	SDI	CurtJFC	Tvol	PctAcres
1	2000	BR_1300_DF	6.41	6.24	348.57	30.1	78.23	171	30.9	635	
2	2000	BR_1300_PA	2.19	2.13	29.7	18	0.76	2.6	0.5	0	
3	2000	BR_1300_TOTAL	6.19	5.92	378.27	29.1	79.01	175.2	31.8	635	
4	2000	BR_PA_E_BM	14.12	13.95	19.58	76.8	21.28	34	5.7	1662.7	
5	2000	BR_PA_E_CH	18.25	17.22	14.71	70.7	26.72	30.6	6.3	3706.5	
6	2000	BR_PA_E_DF	20.41	19.54	34.54	116.8	78.47	108.5	17.4	17799.9	
7	2000	BR_PA_E_PA	10.71	10.40	58.49	68.8	36.6	65.3	11.2	2635.9	
8	2000	BR_PA_E_TOTAL	15.32	14.23	127.32	63.3	163.07	252.5	41.7	25937	
9	2000	BR_STEE_BM	9.28	9.1	6.8	64.8	31.9	6	1	177.8	
10	2000	BR_STEE_CH	13.9	12.90	6.81	74.8	7.17	11.5	1.9	736.8	
11	2000	BR_STEE_DF	16.1	14.69	60.29	89.8	85.28	129.5	21.3	15508.9	
12	2000	BR_STEE_GF	13.14	12.05	4.09	79.8	3.85	6.3	1.1	632.1	
13	2000	BR_STEE_PA	10.18	9.86	77.46	63.5	43.82	79.8	13.7	3172	
14	2000	BR_STEE_PC	12.19	11.11	29.91	60.8	24.26	41.1	6.9	1976.7	
15	2000	BR_STEE_YH	18.6	16.70	10.94	95.4	20.65	29.6	4.8	4575.3	
16	2000	BR_STEE_VC	7.57	7.51	24.47	34.5	7.65	15.7	2.8	108.9	
17	2000	BR_STEE_TOTAL	12.75	11.54	220.77	69.4	195.88	326.2	54.8	26890.5	
18	2000	BR_TRI_DF	14.78	13.99	126.96	91.6	61.26	237.3	30.9	20761.2	
19	2000	BR_TRI_PA	10.3	10.19	96.75	85.4	55.97	101.4	17.4	3620.2	
20	2000	BR_TRI_VH	9.49	9.27	7.25	62.7	3.56	6.7	1.2	209.2	
21	2000	BR_TRI_TOTAL	12.94	12.25	230.96	79.7	210.79	349	58.6	24590.6	
22	2000	BR_TRI_2_BM	11.4	11.4	6.67	72	6.85	11.9	2	417.7	
23	2000	BR_TRI_2_DF	19.03	18.16	126.56	118.9	249.96	355.2	57.3	53743	
24	2000	BR_TRI_2_PA	13.2	13.2	9.66	73	9.18	15.1	2.5	704.2	
25	2000	BR_TRI_2_VH	6.75	6.75	19.26	49.5	4.79	10.3	1.8	206.3	
26	2000	BR_TRI_2_TOTAL	17.34	16.14	165.15	105.4	270.79	399.3	65	55507.2	
27	2000	BR_LP_M_BM	12.12	10.90	55.79	67.5	44.7	75.9	12.8	4625.7	
28	2000	BR_LP_M_CH	11.01	10.31	3.49	71.4	2.31	4.1	0.7	162.4	
29	2000	BR_LP_M_DF	18.88	17.66	83.07	108.9	161.53	230.3	37.2	34290.6	
30	2000	BR_LP_M_MH	14	14	1.17	73	1.25	2	0.3	106.7	
31	2000	BR_LP_M_PA	11.42	11.13	33.66	70.2	23.93	41.6	7.1	1898.5	
32	2000	BR_LP_M_VH	7.16	7.13	3.48	50	0.97	2	0.4	47.3	
33	2000	BR_LP_M_TOTAL	15.43	14.01	100.66	66.8	234.69	362.4	58.7	41131.3	
34	2000	MF_BOLL_DF	2.71	2.69	129.38	16.9	5.17	15.9	3.1	0	
35	2000	MF_BOLL_PA	10.3	10.3	9.9	57	5.73	10.4	1.8	154.6	
36	2000	MF_BOLL_VH	2.5	2.5	9.89	20	0.34	1.1	0.2	0	
37	2000	MF_BOLL_TOTAL	3.72	3.19	149.18	19.7	11.24	30.5	5.9	154.6	
38	2000	MF_BOLL_2_BM	0.6	0.67	90.05	0	0.05	0.3	0.1	0	

[illegible]

Use the LMS Menu to “AutoFilter” the summary table and then select the “TOTAL” lines for species. This selects the stand totals for each stand.

# Past Summary Table

year	stand	species	DBHq	AveDBH	TPA	AveHt	TBA	SDI	CurtisRi	TVolPerAcre	Pre
2000	BR_1300_TOTAL		6.19	5.92	378.27	29.1	79.01	175.2	31.8	1100.6	
2000	BR_PA_E TOTAL		15.32	14.23	127.32	83.3	163.07	252.5	41.7	30512	
2000	BR_STEE TOTAL		12.75	11.54	220.77	69.4	195.88	326.2	54.8	32726.2	
2000	BR_TRI TOTAL		12.94	12.25	230.96	79.7	210.79	349	58.6	34394	
2000	BR_TRI_2 TOTAL		17.34	16.14	165.15	105.4	270.79	399.3	66	60464.1	
2000	BR_UP_V TOTAL		15.43	14.01	180.66	86.8	234.69	362.4	59.7	46871.6	
2000	MF_BOUL TOTAL		3.72	3.19	149.18	19.7	11.24	30.5	5.8	336.9	
2000	MR_27CR TOTAL		9.37	4.44	418.25	33.5	200.47	377.1	65.5	47086	
2000	MR_27CR TOTAL		15.74	11.99	274.14	67.8	370.63	567.8	93.4	75223.1	
2000	MR_27CR TOTAL		14.71	10.15	166.17	73	196.23	303.8	51.2	49555.2	
2000	MR_BIG_F TOTAL		9.27	8.8	336.58	59.1	157.73	298	51.8	19189.8	
2000	MR_BUCK TOTAL		4.7	4.37	308.1	28.8	37.16	91.9	17.1	706	
2000	MR_BUCK TOTAL		4.36	3.66	832.59	24.3	86.14	219.5	41.3	2863.2	
2000	MR_BUCK TOTAL		0.63	0.59	300	3.9	0.64	3.5	0.8	0	
2000	MR_CCU TOTAL		4.54	4.16	566.8	23.1	63.81	159.9	29.9	0	
2000	MR_FIBER TOTAL		5.97	5.62	1159.71	64.8	225.37	506.9	92.2	20428.9	
2000	MR_GEOF TOTAL		5.22	4.7	518.38	28	77.04	182.7	33.7	3543.9	
2000	MR_HY_F TOTAL		7.98	7.64	440.12	66.7	152.81	305.4	54.1	17140.1	
2000	MR_LLMA TOTAL		13.72	12.92	217.02	86.8	222.72	360.3	60.1	37483.2	
2000	MR_LLMA TOTAL		0	0	0	0	0	0	0	0	
2000	MR_LLMA TOTAL		2.49	2.18	513.46	16.7	17.33	55.1	11	0	
2000	MR_MUR TOTAL		0	0	0	0	0	0	0	0	
2000	MR_NON TOTAL		0	0	0	0	0	0	0	0	
2000	MR_NWT TOTAL		7.06	6.95	628.18	43.8	170.93	399.7	64.3	10295.9	
2000	MR_PONI TOTAL		3.48	2.57	1217.13	21.4	80.6	224.4	43.2	3379.4	
2000	MR_SEEL TOTAL		3.16	3	327.13	21.2	17.79	51.5	10	0	
2000	MR_SHEL TOTAL		8.2	4.11	128.65	22.8	47.17	93.6	16.5	9591.1	
2000	MR_SLIDE TOTAL		0	0	0	0	0	0	0	0	
2000	MR_SUB TOTAL		16.16	14.7	149.03	88.3	212.37	322	52.8	44584.8	
2000	MR_WAT TOTAL		15.9	15.27	127.17	91.7	175.33	267.5	44	33147.5	
2000	MR_WELL TOTAL		0.57	0.54	300	3.8	0.53	3	0.7	0	
2000	MR_Y_TH TOTAL		7.87	3.53	267.69	25.1	90.42	182.3	32.2	18518.1	

Year	stand	species	DBHq	AveDBH	TPA	AveHt	TBA	SDI	CurtisRi	TVolPerAcre	Pre
2000	BR_1300 ROAD	TOTAL	6.19	5.92	378.27	29.1	79.01	175.2	31.8	1100.6	
2000	BR_PA_EA	TOTAL	15.32	14.23	127.32	83.3	163.07	252.5	41.7	30512	
2000	BR_STEEPLIES	TOTAL	12.75	11.54	220.77	69.4	195.88	326.2	54.8	32726.2	
2000	BR_TRI	TOTAL	12.94	12.25	230.96	79.7	210.79	349	58.6	34394	
2000	BR_TRI_27	TOTAL	17.34	16.14	165.15	105.4	270.79	399.3	66	60464.1	
2000	BR_UP_MURPHY	TOTAL	15.43	14.01	180.66	86.8	234.69	362.4	59.7	46871.6	
2000	MF_BOULDER S	TOTAL	3.72	3.19	149.18	19.7	11.24	30.5	5.8	336.9	
2000	MR_27CR E TH	TOTAL	9.37	4.44	418.25	33.5	200.47	377.1	65.5	47086	
2000	MR_27CR DMZ	TOTAL	15.74	11.99	274.14	67.8	370.63	567.8	93.4	75223.1	
2000	MR_27CR W TH	TOTAL	14.71	10.15	166.17	73	196.23	303.8	51.2	49555.2	
2000	MR_EKS_FONDS	TOTAL	9.27	8.8	336.58	59.1	157.73	298	51.8	19189.8	
2000	MR_BUCK N	TOTAL	4.7	4.37	308.1	28.8	37.16	91.9	17.1	706	
2000	MR_BUCK S	TOTAL	4.36	3.66	832.59	24.3	86.14	219.5	41.3	2863.2	
2000	MR_BUCK WET	TOTAL	0.63	0.59	300	3.9	0.64	3.5	0.8	0	
2000	MR_CCU CTRL	TOTAL	4.54	4.16	566.8	23.1	63.81	159.9	29.9	0	
2000	MR_RBER	TOTAL	5.97	5.62	1159.71	64.8	225.37	506.9	92.2	20428.9	
2000	MR_GEORGE SP	TOTAL	5.22	4.7	518.38	28	77.04	182.7	33.7	3543.9	
2000	MR_HY POPLAR	TOTAL	7.98	7.64	440.12	66.7	152.81	305.4	54.1	17140.1	
2000	MR_LMASH E	TOTAL	13.72	12.92	217.02	86.8	222.72	360.3	60.1	37483.2	
2000	MR_LMASH W	TOTAL	0	0	0	0	0	0	0	0	
2000	MR_LMASH W	TOTAL	2.49	2.18	513.46	16.7	17.33	55.1	11	0	
2000	MR_MURPHYFLD	TOTAL	0	0	0	0	0	0	0	0	
2000	MR_NON FOR	TOTAL	0	0	0	0	0	0	0	0	
2000	MR_MANTIC MOW	TOTAL	7.06	6.95	628.18	43.8	170.93	399.7	64.3	10295.9	
2000	MR_FONDS	TOTAL	3.48	2.57	1217.13	21.4	80.6	224.4	43.2	3379.4	
2000	MR_SEEDTREE	TOTAL	3.16	3	327.13	21.2	17.79	51.5	10	0	
2000	MR_SHELTERWAO	TOTAL	8.2	4.11	128.65	22.8	47.17	93.6	16.5	9591.1	
2000	MR_SLIDE	TOTAL	0	0	0	0	0	0	0	0	
2000	MR_SUDOM	TOTAL	16.16	14.7	149.03	88.3	212.37	322	52.8	44584.8	
2000	MR_WATERFALL	TOTAL	15.9	15.27	127.17	91.7	175.33	267.5	44	33147.5	
2000	MR_WELL	TOTAL	0.57	0.54	300	3.8	0.53	3	0.7	0	
2000	MR_Y_THIN	TOTAL	7.87	3.53	267.69	25.1	90.42	182.3	32.2	18518.1	

Highlight the body of the filtered table and copy to cell A2 of the LANDSCAPE SUMMARY worksheet.

# Scoping Process

- Use Microsoft Excel formulas and macros to provide series of table and graphs that summarize the landscape based on stand level information (from Attributes and Consequences) tables.



# Scoping Functions

Click the Acres By Species button to do the scoping process. This does a classification of the attribute data and provides charts and graphical output of the cross tabulation.

Microsoft Excel - ScopesGroups.xls

File Edit View Insert Format Tools Data Window Documents To Go Help Acrobat LPS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

Instructions

Clear Input

Instructions

Acres By Species

DOMINANT SPECIES TABLE FROM GENERIC TABLES  
(ADVANCED TABLES IN LMS)

Stand	Photo Location	Shrubland	Habitat Code	Age	Shape	Aspect	Elev	Lat	Acres	Year	Stand	SPP	ProportionMixed	Data Check
8	GR_OOL_ROAD	1	0	320	0	8	28.1	2431	159.1	0	15.2	2080 GR_OOL_ROAD	CF	Not Available
9	MP_LA_E8	1	0	320	0	57	31.7	252	157.8	0	17.2	2080 MP_LA_E8	MEP	Not Available
10	GR_STEEPLES	1	0	320	0	72	33.1	1074	1244.8	0	50.4	2080 GR_STEEPLES	MEP	Not Available
11	BR_TRN	1	0	395	0	57	24.9	2023	1420.3	0	35.4	2080 BR_TRN	MEPMA	Not Available
12	BR_TRN2	1	0	395	0	57	33.1	1074	1433.1	0	13.8	2080 BR_TRN2	CF	Not Available
13	GRUP_MURPHY	1	0	320	0	57	32.9	1744	1525.2	0	78	2080 GRUP_MURPHY	MEP	Not Available
14	MP_BOULDER_S	1	0	395	0	8	8.9	2187	389.8	0	14.1	2080 MP_BOULDER_S	MEP/CF	Not Available
15	MP_LACR_L_TH	1	0	320	0	57	8.2	2242	1035.3	0	2.5	2080 MP_LACR_L_TH	CF	Not Available
16	MP_LACR_LM2	1	0	320	0	57	8.6	2223	1311.8	0	15.8	2080 MP_LACR_LM2	MEP/CF	Not Available
17	MP_LACR_L_V_TH	1	0	320	0	57	8.6	2092	539.14	0	18	2080 MP_LACR_L_V_TH	MEP	Not Available
18	MP_LACR_PONDS	1	0	395	0	1	8.6	1644	1280.1	0	60.4	2080 MP_LACR_PONDS	MEP/CF	Not Available
19	MP_LACR_U	1	0	395	0	1	7.4	2088	1034.2	0	14.2	2080 MP_LACR_U	CF	Not Available
20	MP_LACR_U	1	0	395	0	1	7.2	2027	1035.8	0	15.6	2080 MP_LACR_U	CF	Not Available
21	MP_LACR_VET	1	0	395	0	8	22.8	59	1063.1	0	15.4	2080 MP_LACR_VET	MEP/CF	Not Available
22	MP_LACR_CTRL	1	0	395	0	8	7.2	2063	1004.4	0	10.7	2080 MP_LACR_CTRL	CF	Not Available
23	MP_LACR	1	0	395	0	1	8.5	2332	1281.4	0	92	2080 MP_LACR	CF	Not Available
24	MP_LACR_GEORGE_SF	1	0	395	0	8	8.6	1088	1075.2	0	44.2	2080 MP_LACR_GEORGE_SF	CF	Not Available
25	MP_LACR_POPLAR	1	0	395	0	28	3.6	375	187.3	0	2.8	2080 MP_LACR_POPLAR	CF	Not Available
26	MP_LACR_L	1	0	395	0	52	18.5	1051	1469.8	0	64	2080 MP_LACR_L	CF	Not Available
27	MP_LACR_L_V	1	0	320	0	52	28.4	1562	1067.8	0	28	2080 MP_LACR_L_V	MEP/FORESTED	Not Available
28	MP_LACR_L	1	0	320	0	4	22.3	1174	108	0	24.9	2080 MP_LACR_L	CF	Not Available
29	MP_LACR_MURPHY	1	0	0	0	1	6.2	1113	174.8	0	26.8	2080 MP_LACR_MURPHY	MEP/FORESTED	Not Available
30	MP_LACR_MURPHY	1	0	0	0	1	4.2	2054	180.7	0	3.7	2080 MP_LACR_MURPHY	MEP/FORESTED	Not Available
31	MP_LACR_MURPHY	1	0	395	0	1	7.5	244	1246.7	0	12.2	2080 MP_LACR_MURPHY	MEP/CF	Not Available
32	MP_LACR_MURPHY	1	0	395	0	1	8.2	2162	1803.1	0	8	2080 MP_LACR_MURPHY	MEP/CF	Not Available
33	MP_LACR_MURPHY	1	0	320	0	1	8.7	1862	186.2	0	8	2080 MP_LACR_MURPHY	MEP	Not Available
34	MP_LACR_MURPHY	1	0	395	0	8	8.6	2067	1032.2	0	54	2080 MP_LACR_MURPHY	CF	Not Available
35	MP_LACR_MURPHY	1	0	395	0	1	2.0	2084	180.2	0	9.3	2080 MP_LACR_MURPHY	MEP/FORESTED	Not Available
36	MP_LACR_MURPHY	1	0	395	0	1	21	2036	168.8	0	27.4	2080 MP_LACR_MURPHY	CF	Not Available
37	MP_LACR_MURPHY	1	0	320	0	57	11.0	2727	501.5	0	9.2	2080 MP_LACR_MURPHY	MEP/CF	Not Available
38	MP_LACR_MURPHY	1	0	320	0	57	7.5	1727	1066.1	0	25.4	2080 MP_LACR_MURPHY	CF	Not Available
39	MP_LACR_MURPHY	1	0	395	0	57	8.5	1587	1217.2	0	6.7	2080 MP_LACR_MURPHY	CF	Not Available

Ready

LPS

File Edit View Insert Format Tools Data Window Documents To Go Help Acrobat LPS

Instructions

Acres By Species

DOMINANT SPECIES TABLE FROM GENERIC TABLES  
(ADVANCED TABLES IN LMS)

Acres	Year	Stand	SPP	ProportionMixed	Data Check	SPECIES	ACRES
15.2	2080	GR_OOL_ROAD	CF	Not Available		CF	318.2
17.2	2080	MP_LA_E8	MEP	Not Available		MEP	153.9
50.4	2080	GR_STEEPLES	MEP	Not Available		MEP/FORESTED	95.8
35.4	2080	BR_TRN	MEPMA	Not Available		MEPMA	35.4
13.8	2080	BR_TRN2	CF	Not Available		MEP/CF	18.1
78	2080	GRUP_MURPHY	MEP	Not Available		CF	85.8
14.1	2080	MP_BOULDER_S	MEP/CF	Not Available		MEP	5
2.5	2080	MP_LACR_L_TH	CF	Not Available		MEP/CF	0
15.8	2080	MP_LACR_LM2	MEP/CF	Not Available		MEP/CF	0
18	2080	MP_LACR_L_V_TH	MEP	Not Available		MEP	0
60.4	2080	MP_LACR_PONDS	MEP/CF	Not Available		MEP/CF	0
14.2	2080	MP_LACR_U	CF	Not Available		MEP/CF	0
15.6	2080	MP_LACR_U	CF	Not Available		MEP/CF	0
36.4	2080	MP_LACR_VET	MEP/CF	Not Available		MEP/CF	0
10.7	2080	MP_LACR_CTRL	CF	Not Available		MEP/CF	0
92	2080	MP_LACR	CF	Not Available		MEP/CF	0
44.2	2080	MP_LACR_GEORGE_SF	CF	Not Available		MEP/CF	0
2.8	2080	MP_LACR_POPLAR	CF	Not Available		MEP/CF	0
64	2080	MP_LACR_L	CF	Not Available		MEP/CF	0
28	2080	MP_LACR_L_V	MEP/FORESTED	Not Available		MEP/FORESTED	0
24.9	2080	MP_LACR_L	CF	Not Available		MEP/FORESTED	0
26.8	2080	MP_LACR_MURPHY	MEP/FORESTED	Not Available		MEP/FORESTED	0
3.7	2080	MP_LACR_MURPHY	MEP/FORESTED	Not Available		MEP/FORESTED	0
12.2	2080	MP_LACR_MURPHY	MEP/CF	Not Available		MEP/CF	0
8	2080	MP_LACR_MURPHY	MEP/CF	Not Available		MEP/CF	0
54	2080	MP_LACR_MURPHY	CF	Not Available		MEP/CF	0
9.3	2080	MP_LACR_MURPHY	MEP/FORESTED	Not Available		MEP/FORESTED	0
27.4	2080	MP_LACR_MURPHY	CF	Not Available		MEP/CF	0
9.2	2080	MP_LACR_MURPHY	MEP/CF	Not Available		MEP/CF	0
25.4	2080	MP_LACR_MURPHY	CF	Not Available		MEP/CF	0
6.7	2080	MP_LACR_MURPHY	CF	Not Available		MEP/CF	0

Ready

# Adjust VARIABLES Spreadsheet

Microsoft Excel - Scope8Group.xls

File Edit View Insert Format Tools Data Window Documents To Go Help Acrobat LPS

Type a question for help

95% Arial 10

C29 Goto Instructions

Elevation Zones		Site Index			Age Class				Aspect						
	Elevation		low end	mid	max		low end	midpoint	min	max		minimum	maximum	low end	high end
Zone 1	-1	Site Index 1	-1	>=1	<1	Age Class1	-1	5	>=1	<11	NORTH	>115	<15	315	45
Zone 2	500	Site Index 2	71	>70	<56	Age Class2	10	15	>10	<21	EAST	>45	<135	45	135
Zone 3	1000	Site Index 3	86	>85	<101	Age Class3	30	35	>30	<31	SOUTH	>135	<225	135	225
Zone 4	1500	Site Index 4	101	>100	<116	Age Class4	20	35	>31	<41	WEST	>225	<315	225	315
Zone 5	2000	Site Index 5	116	>115	<131	Age Class5	40	45	>41	<51					
Zone 6	2500	Site Index 6	131	>130	<146	Age Class6	60	65	>61	<81	FLAT	<0	MAX % SLOPE		0
Zone 7	3000	Site Index 7	146	>145		Age Class7	80	85	>81	<91					
Zone 8	3500					Age Class8	70	75	>71	<81					
Zone 9	4000					Age Class9	80	85	>81	<91					
Zone 10	4500					Age Class10	90	95	>91	<101					
Zone 11	5000					Age Class11	100	105	>100	<111					
						Age Class12	110	115	>110	<121					
						Age Class13	120	>120	<130						

Goto TABLES

Goto GRAPHS

Goto Instructions

Instructions / Index / INSERT DATA / LANDSCAPE SUMMARY / RAW GROUPS / GROUP SUMMARY / VARIABLES / TABLES / GRAPHS / GROUP 1

Ready

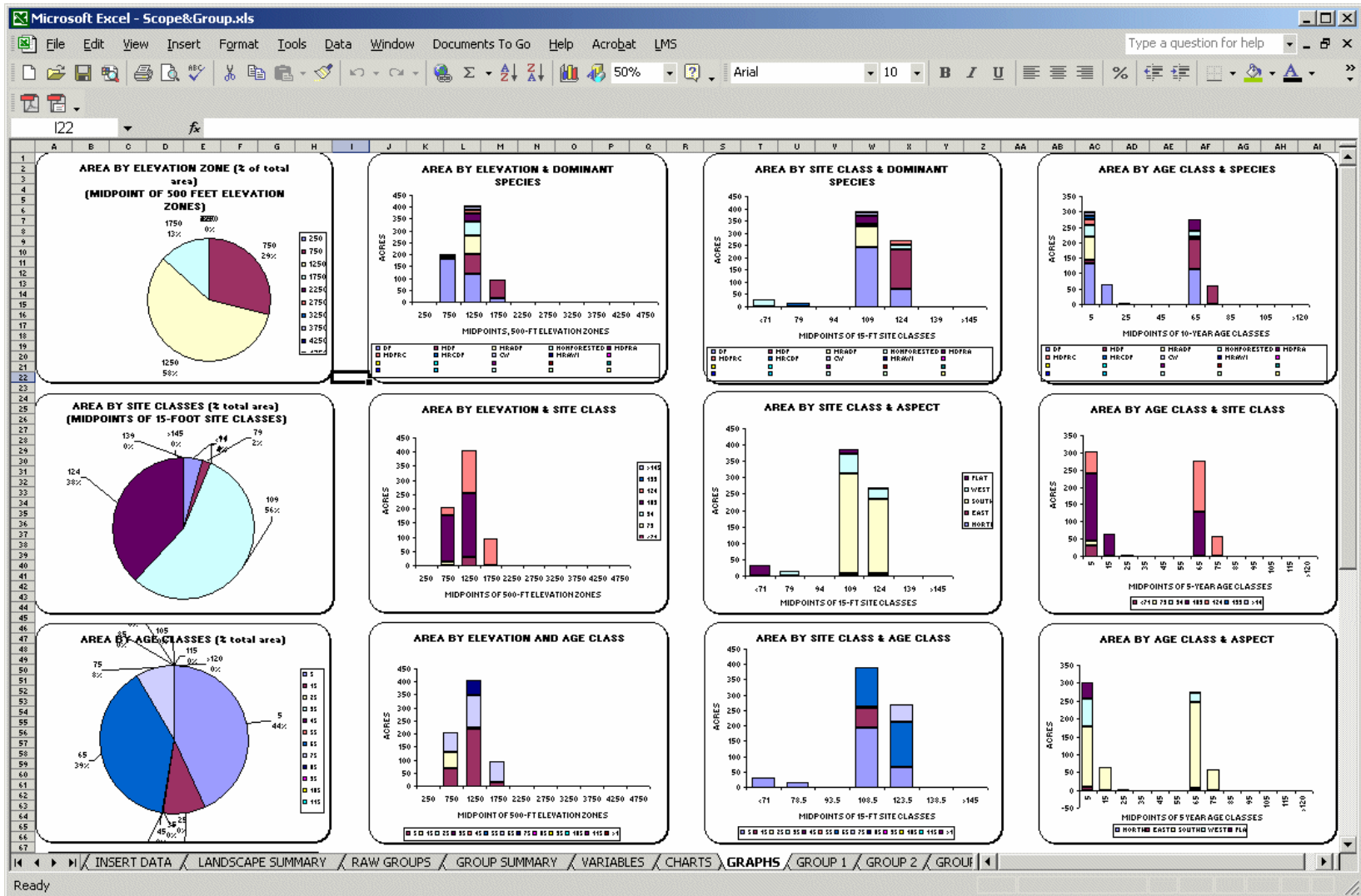
The VARIABLES worksheet provides the “bins” used for the classification. If necessary Adjust the ranges and bin boundaries as needed. Consult the TABLES worksheet to see how the data is arranged for each variable.

# TABLES Spreadsheet (View only)

[illegible]

The TABLES worksheet provides tabular summaries of acres by each classification.

# Landscape Graphs





# Grouping Process

- Use information from Scoping process (and possibly additional information) to divide the landscape into groups of similar stands.
- The Scope&Group.xls file includes macros that do much of the work of sorting the stands into groups defined by the user, and then picking a representative stand for each group.

# Information for Grouping process

- Tables and Graphs from Scoping process.
- Additional LMS tables.
- In addition it may be useful to:
  - Create maps/visualizations with Envision to provide further insight.
    - Change viewpoints in Envision to look at the landscape from another perspective.
    - Overlay shape files to provide the context of roads, streams, etc on the landscape.
  - Create maps with ArcView to provide further insight.
  - Reference other sources of information about the area (e.g. soil survey maps, topography, etc).

Jump to each group using the hyperlinks in the Group Menu.

[illegible]

# Define Groups

Once the Scoping outputs are examined we can begin to divide the landscape into groups. These groups can then be defined in the spreadsheet in the RAW GROUPS worksheet.

The example at right shows the variables used for grouping for GROUP 1. Removing the NONE from SPECIES INCLUDED will include all stand in this group. Entering 15 in AGE LESS THAN will define GROUP 1 as all stands less than 15 years of age. Follow the process for each group to define the desired number of groups.

Stand	SPP	Proportion/ha	SPECIES MIC	STAND	ACRES	TOO SHIP	TOO YOUNG	SITE TOO HIGH?	SITE TOO LOW?	ASPECT APPROX RATE?	ELEV TOO HIGH?	ELEV TOO LOW?	SLOPE TOO STEEP?	SLOPE TOO FLAT?	INCLUDES SPECIES?	ENGL SPEC?
18	BPLDRO_P080	DF	Not Available	1 CF	1	0	3	8	8	4	0	3	8	8	8	8
19	BPLDRO_SA	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
20	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
21	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
22	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
23	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
24	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
25	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
26	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
27	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
28	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
29	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
30	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
31	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
32	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
33	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
34	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
35	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
36	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
37	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
38	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
39	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
40	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
41	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
42	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
43	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
44	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
45	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
46	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
47	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
48	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
49	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
50	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
51	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
52	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
53	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
54	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
55	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
56	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
57	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
58	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
59	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
60	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
61	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
62	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
63	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
64	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
65	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
66	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
67	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
68	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
69	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
70	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
71	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
72	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
73	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
74	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
75	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
76	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
77	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
78	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
79	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
80	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
81	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
82	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
83	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
84	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
85	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
86	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
87	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
88	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
89	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
90	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
91	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
92	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
93	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
94	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
95	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
96	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
97	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
98	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
99	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8
100	BPLDRO_P080	MCDF	Not Available	1 HGF	0	0	3	8	8	4	0	3	8	8	8	8

Groups should be designed so that they are mutually exclusive – no single stands should appear in more than one group. This can be checked by the number of acres to the left of GROUP 1.

# Examine Group Totals

Examine the Grouped Acres and Grouped Stands cells to see how much of the landscape has been grouped.

The number of groups each stand has been assigned to is listed in column R.

The screenshot shows a Microsoft Excel spreadsheet titled "ScopeGroups.xls". The spreadsheet is organized into several sections. On the left, there are buttons for "Clear Groups", "GROUP 1" through "GROUP 6", and "Group Sort". In the center, there are summary boxes for "TOTAL ACRES" (791.3) and "GROUPED ACRES" (791.3), and "TOTAL STANDS" (32) and "GROUPED STANDS" (32). On the right, there are buttons for "GROUP 1" through "GROUP 6" and a "Group Sort" button. The main data table has columns for age, slope, aspect, elevation, latitude, aspect, year, stand, spp, proportion/mixed, species/mix, and a "Number Groups Stand is in" column (column R). The data table is filtered to show only stands that are "GROUPED".

age	slope	aspect	elevation	latitude	aspect	year	stand	spp	proportion/mixed	species/mix	Number Groups Stand is in
20	9	28.1	2461	15891	8	6.2	2080 GR_1580_ROAD	DF	NotAssessable	1 DF	1
21	RT	31.7	252	1587.6	8	7.7	2080 GR_1587.6	MCF	NotAssessable	1 MCF	1
22	72	12.1	171.4	1244.9	8	15.0	2080 GR_1587.6	MCF	NotAssessable	1 MCF	1
23	RT	24.5	282.8	1425.3	8	28.4	2080 GR_1587.6	MCF	NotAssessable	1 MCF	1
24	RT	31.1	80.8	1493.1	8	10.0	2080 GR_1587.6	DF	NotAssessable	1 DF	1
25	RT	22.9	174.4	1525.2	8	70	2080 GR_1587.6	MCF	NotAssessable	1 MCF	1
26	5	8.9	175.7	1583.8	8	11.1	2080 GR_1587.6	MCF	NotAssessable	1 MCF	1
27	RT	8.2	204.2	1625.3	8	2.5	2080 GR_1587.6	DF	NotAssessable	1 DF	1

# Assign Stands to Groups

Click the Group Sort button once groups have been designed. Click the Clear Groups button to start over.

The Group Sort button will assign stands to groups and pick a representative stand for each group. The Group Sort button will jump to the GROUP SUMMARY worksheet.

The screenshot shows the 'ScopeGroups.xls' workbook. The 'GROUP 1' button is circled in red. The 'Group Sort' button is also circled in red. The spreadsheet displays various data columns including Age, Slope, Aspect, Elevation, Latitude, Area, Year, Stand, SPP, Proportion/Mixed, Species/Rich, and various summary statistics like Total Acres, Grouped Acres, Total Stands, and Grouped Stands. The 'GROUP 1' button is located in the 'GROUP 1' column, and the 'Group Sort' button is located in the 'GROUP 1' column.

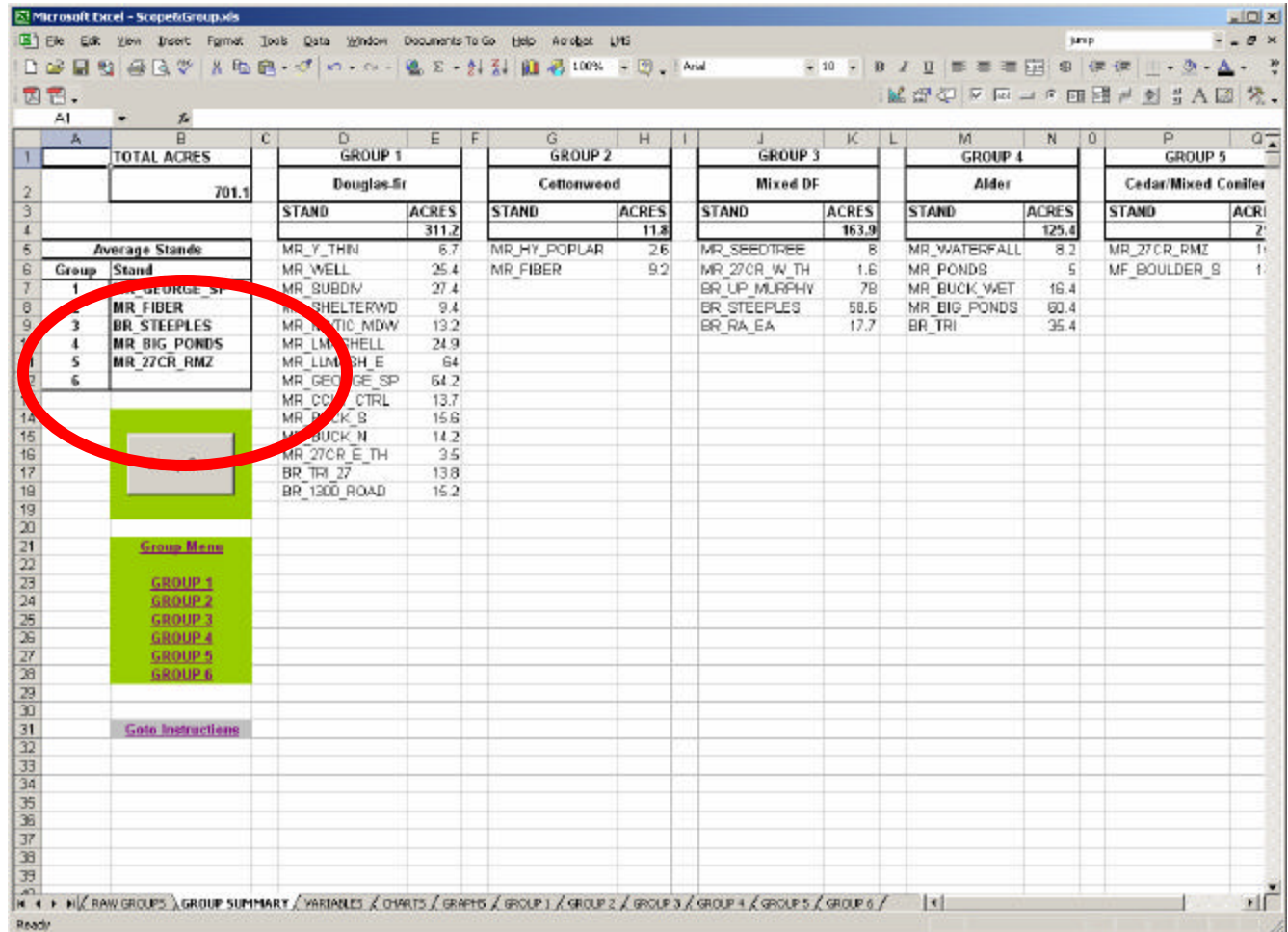
Age	Slope	Aspect	Elevation	Latitude	Area	Year	Stand	SPP	Proportion/Mixed	Species/Rich	GROUP 1
20	9	28.1	2461	15891	8	6.2	2080 GR_1580_ROAD	DF	NotAssessable	1 DF	GROUP 1
21	RT	31.7	252	1587.6	8	7.7	2080 GR_1580_ROAD	MCF	NotAssessable	1 MCF	GROUP 1
22	72	12.1	187.8	1249.8	8	15.0	2080 GR_1580_ROAD	MCF	NotAssessable	1 MCF	GROUP 1
23	RT	24.5	282.8	1420.3	8	28.4	2080 GR_1580_ROAD	MCF	NotAssessable	1 MCF	GROUP 1
24	RT	31.1	80.8	1493.1	8	10.0	2080 GR_1580_ROAD	DF	NotAssessable	1 DF	GROUP 1
25	RT	22.0	174.4	1525.2	8	70	2080 GR_1580_ROAD	MCF	NotAssessable	1 MCF	GROUP 1
26	75	8.0	170.7	1383.8	8	11.1	2080 GR_1580_ROAD	MPCOF	NotAssessable	1 MPCOF	GROUP 1
27	RT	8.2	204.2	1075.3	8	2.5	2080 GR_1580_ROAD	DF	NotAssessable	1 DF	GROUP 1



# Representative Stands

Representative stands will be listed in the table for each group.

If a stand name does not show for a group it is because there is no data (or no variation) in the summary information for the stands in the group. In this case the groups should be re-defined, or a representative stand can be selected manually.



TOTAL ACRES		GROUP 1 Douglas fir		GROUP 2 Cottonwood		GROUP 3 Mixed DF		GROUP 4 Alder		GROUP 5 Cedar/Mixed Conifer	
STAND	ACRES	STAND	ACRES	STAND	ACRES	STAND	ACRES	STAND	ACRES	STAND	ACRES
701.1		311.2		11.8		163.9		125.4			
<b>Average Stands</b>		MR_Y_THIN	6.7	MR_HY_POPLAR	2.6	MR_SEEDTREE	8	MR_WATERFALL	8.2	MR_27CR_RMZ	1
Group	Stand	MR_WELL	25.4	MR_FIBER	9.2	MR_27CR_W_TH	1.6	MR_PONDS	5	MF_BOULDER_S	1
1	MR GEORGE SP	MR SUBDM	27.4			BR_UP_MURPHY	78	MR_BUCK_WET	16.4		
2	MR FIBER	MR SHELTERWD	9.4			BR_STEEPLES	58.6	MR_BIG_PONDS	80.4		
3	BR STEEPLES	MR LOTIC MDW	13.2			BR_RA_EA	17.7	BR_TRI	35.4		
4	MR BIG PONDS	MR LMSHELL	24.9								
5	MR 27CR_RMZ	MR LMSH E	64								
6		MR GEORGE SP	64.2								
		MR COU CTRL	13.7								
		MR BUCK B	15.6								
		MR BUCK N	14.2								
		MR 27CR E_TH	3.5								
		BR TRI 27	13.8								
		BR 1300 ROAD	15.2								

**Group Menu**

- GROUP 1
- GROUP 2
- GROUP 3
- GROUP 4
- GROUP 5
- GROUP 6

[Go to Instructions](#)

# Save File

Save this file for a use later as the “Stand Suitability Table”. Save a the file to some name that is easy to remember.



# Relationship between Scope&Group and Toggle spreadsheets

- Scope&Group helps define groups and assign stands to each group. Note: No data is moved from Scope&Group to Toggle.
- New LMS portfolios are then created using the representative stand for each group.
- Silvicultural pathways are developed for each representative stand.
- The silvicultural pathways are simulated with LMS and the results (using the Consequences Table) are pasted into the Toggle spreadsheet.
- Toggle is used to evaluate the silvicultural pathways and develop alternative management approaches.