

Root Cutting Lab Exercise  
Friday, January 18, 2019

Team	Species	Greenhouse 5 (Warm Tops/No Bottom Heat)		Greenhouse 2A (Cool Tops/Bottom Heat)		Team Members
		Large Cuttings	Small Cuttings	Large Cuttings	Small Cuttings	
1	Oakleaf Hydrangea	5	5	5	5	
2	Japanese Anemone	5	5	5	5	
3	Sumac	5	5	5	5	
4	Bottlebrush Buckeye	5	5	5	5	
5	Elderberry	5	5	5	5	
6	Lilac	5	5	5	5	
7	Kentucky Coffeetree	5	5	5	5	
8	Bradford Pear	5	5	5	5	

Questions:

- 1) How are you going to determine what is a "large" versus "small" root cutting?
- 2) How do the root cuttings of your species compare to those of other species?
- 3) How are you going to orient your cuttings - i.e., horizontally, vertically, etc.?
- 4) How will you monitor treatment variables?
- 5) How are you going to measure treatment differences at the conclusion of the study?







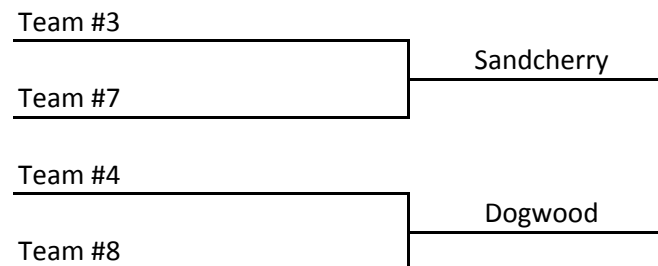
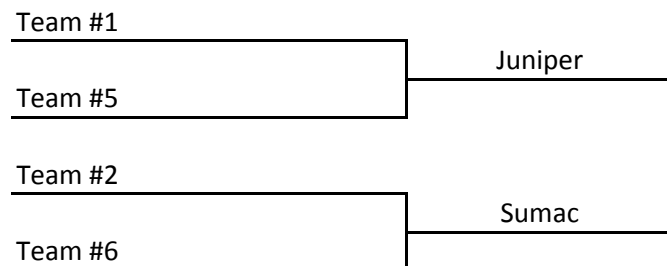
Hardwood Stem Cutting Lab Exercise  
Friday, January 18, 2019

Bottom Heat/Cool Tops (GH2A)*												No Bottom Heat/Warm Tops (GH5)*														
Team 1			Team 2			Team 3			Team 4			Team 5			Team 6			Team 7			Team 8					
Juniper			Sumac			Sandcherry			Dogwood			Juniper			Sumac			Sandcherry			Dogwood					
#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3
1000ppm																										
8000ppm																										

Treatment #1 - IBA Powder (Hormodin #1 - 1000 ppm and Rhizopon #3 - 8000 ppm)

Treatment #2 - Liquid IBA (HORTUS IBA Water Soluble Salts)

Treatment #3 - Liquid IBA/NAA (Dip n Grow Liquid Rooting Concentrate - 1000 ppm IBA/500 ppm NAA and 8000 ppm IBA/4000 ppm NAA)



\* Each team will prepare, treat and stick a total of sixty (60) cuttings of the assigned species. Teams will work together to compare bottom heat (GH2A) versus no bottom heat/warm tops (GH5) for each species.