Plant Propagation Protocol for Ribes viscosissimum ESRM 412 – Native Plant Production Spring 2008

	TAXONOMY		
Family Names			
Family Scientific	Grossulariaceae		
Name:			
Family Common	Currant		
Name:			
Scientific			
Names			
Genus:	Ribes		
Species:	viscosissimum		
Species	Pursh		
Authority:			
Sub-species:	Ribes		
Cultivar:	viscosissimum		
Authority for	Pursch		
Variety:	D'I I I II		
Common	Ribes viscosissimum Pursh var. hallii Jancz.		
Synonym:	Ct. 1		
Common Name:	Sticky currant		
Species Code:	RIVI3		
Communication	GENERAL INFORMATION		
Geographical range:	(USDA, 2008) <a href="http://plants.usda.gov/java/nameSearch?keywordquery=ribes+viscosissimum&amp;mode=sciname&amp;submit.x=0&amp;submit.y=0">http://plants.usda.gov/java/nameSearch?keywordquery=ribes+viscosissimum&amp;mode=sciname&amp;submit.x=0&amp;submit.y=0</a> )		
Ecological distribution:	Grows in sagebrush and forest (Dyer, 2001).		
Climate and	Grows on mostly dry sites (Pojar & MacKinnon, 1994).		
elevation range:	Occurs from 4,000 to 10,000 feet (Dyer, 2001).		

Plant strategy type / successional stage: Plant	White pine blister rust uses <i>Ribes viscosissimum</i> as an alternate host (Pojar& MacKinnon, 1994).  Associated species include: <i>Aquilegia formosa</i> , <i>Luzula comosa</i> , <i>Salix lasiolepis</i> , <i>Ribes nevadense</i> , <i>Mimulus guttatus</i> , <i>Hordeum brachyantherum</i> ssp. <i>brachyantherum</i> , <i>Deschampsia elogata</i> , and <i>Salix scouleriana</i> (California Native Plant Link Exchange, 2008).  Erect and spreading shrub (Pojar & MacKinnon, 1994).
characteristics:	DDODA CATION DETAIL C
Footsman	PROPAGATION DETAILS
Ecotype:	Dyer collected in Yosemite National Park.  Barner collected from Willamette National Forest, in Lower Salmon  Creek, in Oregon at 4,500 ft elevation.
Propagation	Dyer's goal was rooted cuttings.
Goal:	The goal for Barner was seeds.
Propagation Method:	Dyer used cuttings.
Product Type:	Dyer's product was a container (plug). Propagules (seeds), for Barner.
Stock Type:	
Time to Grow:	
Target	No information for cultivation, naturally takes 3 to 5 years to fruit
Specifications:	(Schopmeyer, 1974).
Propagule Collection:	Information not available for Dyer.
	Seeds were collected in small lots into plastic bags (Barner, 2008).
	Plants begin setting seed at 3 to 5 years, and set good crops in intervals of 2 or 3 years. Pick or strip fruit immediately after ripening to prevent loss to birds. Seed should be spread thinly and dried. Dried fruits can be soaked before macerating and washing to separate seed. A good method is to use a kitchen blender for 15-45 seconds then add water and decant to remove empty seeds and pulp (Schopmeyer, 1974).
	Toogood reccomends taking hardwood cuttings in late autumn or midwinter for plants of <i>Ribes</i> in general.
Propagule	It is estimated that cuttings can be placed in cold storage for a short
Processing/	time period (Dyer, 2001). Other information for Dyer not available.
Characteristics:	There are 287,090 seeds per pound (Barner, 2008).  Barner suggests cold storage at temperatures of 33 to 38 degrees
	Fahrenheit. Seeds stored at 70 degrees Fahrenheit had 23% viability after 17 years,

	but 7% viability after 22 (United States, 1947).
Pre-Planting Propagule Treatments:	Store in sealed vials (Young & Young, 1992).  Cuttings were dipped into a fungicide of Hormex and Captan solution of #3 and #16 (Dyer, 2001).
	Seeds were cleaned by macerating, floating off pulp and other material, and then drying on on mesh trays. An office Clipper was then used to air-screen the seeds. The seeds were top screened, 6 round and a bottom screened, and 1/25 round screened, with medium speed, and medium air. This resulted in 95% purity, with X-ray determining that 92% of seeds are filled (Barner, 2008).
	Seeds naturally germinate in spring after dispersal, and will germinate after a cold stratification mimicking natural conditions. Seeds have also been shown to germinate well with treating with 2-10% sulfurinc acid for 5 minutes and then placing them in alternating diurnal treatments of 77 and 41 or 50 degrees Fahrenheit. Cover seeds with 1/8" to 1/4" of soil (Schopmeyer, 1974).
	Ideal cutting length for <i>Ribes</i> in general could be from 8" to 15" and lower buds could be removed immediately to prevent suckering or retained for 1 year to help rooting. Cuttings should be inserted to either half their length or with only two buds above the soil (Toogood, 1999).
Growing Area Preparation:	Dyer used a soil mix of 75% perlite and 25% peat moss that was sterilized for 24 hours at 160 degrees Fahrenheit.
	For general <i>Ribes</i> propagation, potting soil may be used for seeds, and pumice or another medium may be used for cuttings (Robson et al, 2007).
Establishment Phase:	Bottom heating was set up for 70 degrees Fahrenheit, and cuttings were misted for 3 seconds every 10 minutes. Grow lights were applied from 5:30 am until 8:30 pm (Dyer, 2001).
Length of Establishment Phase:	
Active Growth Phase:	
Length of Active Growth Phase:	
Hardening Phase:	Plants were placed in a lathhouse and then subsequently started to die back (Dyer, 2001).
Length of Hardening Phase:	
Harvesting,	

Storage and		
Shipping:		
Length of		
Storage:		
Guidelines for	J	
Outplanting		
Performance		
on Typical		
Sites:	It is muchibited to plant suggests on speech suries in contain newtoof	
Other Comments:	It is prohibited to plant currants or gooseberries in certain parts of	
Comments.	Michigan (USDA, 2008).  May be banned in other areas due to being an alternate host for white	
	pine blister rust (Robson et al, 2007).	
	pine blister fust (Robsolf et al, 2007).	
	Photo credit: ©2007 Walter	
	Siegmund,	
	http://commons.wikimedia.org/wiki/Image:Ribes_viscosissimum_157	
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INFORMATION SOURCES		
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