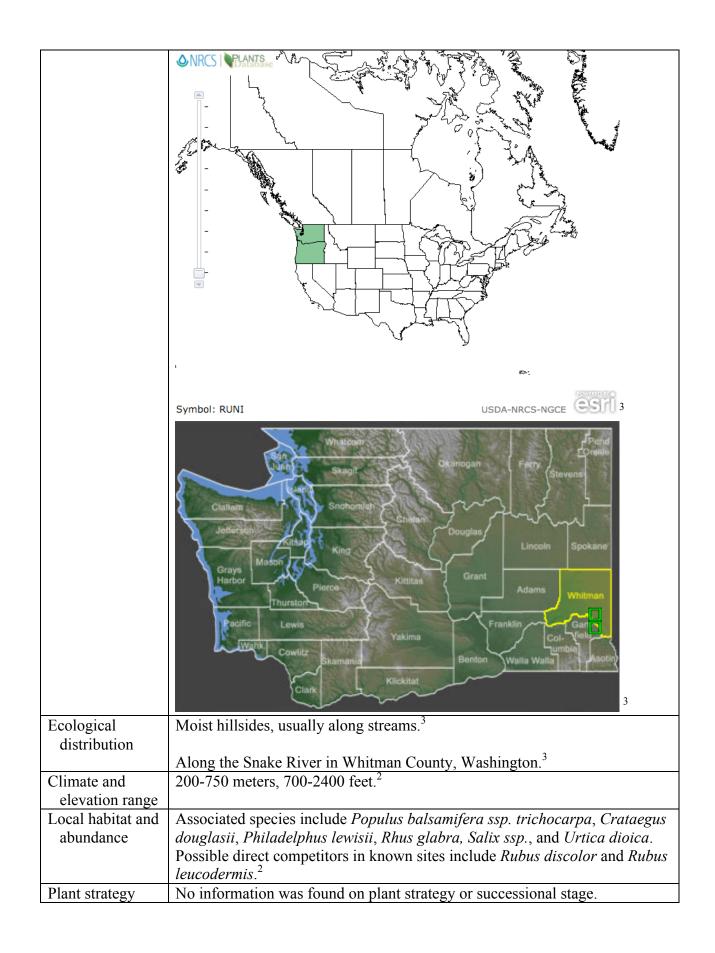
Plant Propagation Protocol for *Rubus nigerrimus* (Greene) Rydb. ESRM 412 – Native Plant Production

Protocol URL: https://courses.washington.edu/esrm412/protocols/RUNI.pdf



TAXONOMY		
Plant Family		
Scientific Name	Rosaceae	
Common Name	Rose family	
Species Scientific Name		
Scientific Name	Rubus nigerrimus (Greene) Rydb.	
Varieties	No information found on varieties.	
Sub-species	No information was found on sub-species.	
Cultivar		
Common Synonym(s)	Rubus leucodermis Dougl. Ex Torr. & Gray var. nigerrimus (Greene) St. John. ⁵	
Common Name(s)	Dark raspberry, northwest raspberry	
Species Code	RUNI	
GENERAL INFORMATION		
Geographical	Native to Washington and Oregon state. ⁴	
range		



type /		
successional		
stage		
Plant characteristics	Rubus nigerrimus is a shrubby perennial. Stems can reach 5 meters long with dense straight or hooked prickles. Leaves are compound with lobed to toothed margins and hairless on both sides. Leaves on flowering stems in groups of 3; leaves on first-year stems in groups of 5 with the lower 2 lacking petioles. ²	
	Flowers are loosely clustered at the ends of the branches. Sepals range from 5-8 millimeters long. Petals are white, sometimes greater than 5 in number, and 4-7 millimeters long. The flowers bloom May to early June. ²	
	The fruits are aggregate drupelets, blackish, and hairless. Fruits ripen late June to mid-July. ²	
PROPAGATION DETAILS		
Ecotype	No information was found on previously collected seeds, cuttings, or other propagules.	
Propagation Goal	Cuttings.	
Propagation Method	Vegetative.	
Product Type	Propagules (cuttings).	
Stock Type		
Time to Grow	By the end of their first growing season, cuttings will be well established and ready to plant. ¹	
Target Specifications	New roots and new leaves at nodes should set by the end of the first season. ¹	
Propagule Collection Instructions	Begin cutting as soon as the plant has dropped its leaves. ¹ Clean pruning shears with rubbing alcohol or a 10% bleach solution to avoid spreading disease. Make cuts just above the leaf node and take no more than 1/20 of the branches for cuttings. ¹ Select young, straight branches growing from the center of the plant. Take	
	server joung, straight standing growing from the center of the plant. Take	

	shoots that are at least the diameter of a pencil, if possible. Collect long branches. ¹
	Place cuttings in a plastic bag and keep them cool, moist, and out of direct sunlight. They can be stored like this for one week. ¹
	Clean shears with rubbing alcohol or bleach solution. Cut the pieces long enough to have at least two leaf nodes, preferably three or four. The bottom of the cutting should be cut at an angle and the top should be cut straight. Make cuts until the branch becomes too short or too thin. ¹
	If you are not planning to plant the cuttings immediately, store them in bundles with damp sawdust or bark in a cool place. ¹
	Treat the bottom inch of the cutting with rooting hormone. ¹
	Cuttings can then be planted in pots or into outdoor beds. Plant the cuttings deep enough that only one or two nodes are visible above the soil. ¹
	If cuttings are potted and kept outside, protect them from freezing, wind, and full sunlight. If pots are kept inside, they should be kept cool and humid. ¹
	Nodes
	The state of the s
Propagule Processing/Pro pagule Characteristics	No information was found on propagule processing.
Pre-Planting Propagule Treatments	Place cuttings in a plastic bag and keep them cool, moist, and out of direct sunlight. ¹
Growing Area Preparation / Annual Practices for Perennial Crops	Cuttings can be planted in 1-gallon pots or into outdoor beds. Garden soil will work but adding vermiculite, perlite, or sawdust helps retain water and avoids soil compaction. ¹
Establishment Phase Details	Cuttings will be established by the end of their first growing season. ¹
Length of Establishment	One growing season. ¹

Phase	
Active Growth	No information was found on the active growing phase.
Phase	
Length of Active	No information was found on the active growing phase.
Growth Phase	
Hardening Phase	No information was found on the hardening phase.
Length of	No information was found on the active growing phase.
Hardening	
Phase	
Harvesting,	Clean pruning shears with rubbing alcohol or a 10% bleach solution to avoid
Storage and	spreading disease. Make cuts just above the leaf node. ¹
Shipping	
	Select young, straight branches growing from the center of the plant. Take
	shoots that are at least the diameter of a pencil, if possible. Collect long
	branches. ¹
Length of	Cuttings can be stored for up to one week under ideal conditions. ¹
Storage	
Guidelines for	No information was found on out planting or performance on typical sites.
Outplanting /	
Performance	
on Typical	
Sites	Callant no many than 1/20 of the branch of for syttings from the denominant
Other Comments	Collect no more than 1/20 of the branches for cuttings from the donor plant. ¹
D. C	INFORMATION SOURCES
References	¹ Bohan, H. (2003). Native Plant Propagation: Hardwood Cuttings. Retrieved April 26, 2016, from
	https://www.wnps.org/education/resources/documents/Garden Links/hardwo
	od_cuttings_and-live-stakes.pdf
	² Camp, P., & Gamon, J. G. (2011). Rubus nigerrimus (Greene) Rydb.
	Retrieved April 26, 2016, from
	http://www1.dnr.wa.gov/nhp/refdesk/fguide/pdf/runi.pdf
	³ Gamon, J. (2016). WTU Herbarium Image Collection - Burke Museum.
	Retrieved April 27, 2016, from
	http://biology.burke.washington.edu/herbarium/imagecollection.php?Genus=Rubus
	⁴ Kartesz, J. T. (2002). Plants Profile for Rubus nigerrimus (dark raspberry).
	Retrieved April 26, 2016, from http://plants.usda.gov/gorg/profile?gymbol=runi
	http://plants.usda.gov/core/profile?symbol=runi
	⁵ U.S. Fish and Wildlife Service. (1996). ITIS Standard Report: Rubus
	nigerrimus (Greene) Rydb. Retrieved April 26, 2016, from
	http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN

Other Sources Consulted	Abrams, L., & Ferris, R. S. (1990). An Illustrated Flora of the Pacific States: Polygonaceae to Krameriaceae, buckwheats to kramerias. Retrieved April 27, 2016, from https://books.google.com/books?id=Md_4wQqO5uQC
	Burke Museum. (2004). Herbarium Database. Retrieved April 26, 2016, from http://www.burkemuseum.org/research-and-collections/botany-and-herbarium/collections/database/results.php?Genus=Rubus
	Consortium of Pacific Northwest Herbaria. (2004). CPNWH Database Search. Retrieved April 26, 2016, from http://www.pnwherbaria.org/data/results.php?DisplayAs=WebPage
	Discover Life. (2016). Rubus nigerrimus - Dark raspberry Discover Life.
	Retrieved April 27, 2016, from http://www.discoverlife.org/mp/20q?search=Rubus nigerrimus
	Giblin, D. (2010). Washington Flora Checklist. Retrieved April 26, 2016, from
	http://biology.burke.washington.edu/herbarium/waflora/checklist.php?Taxon =Rubus nigerrimus
	Nature Serve Explorer. (2009). Comprehensive Report Species - Rubus nigerrimus. Retrieved April 26, 2016, from
	http://explorer.natureserve.org/servlet/NatureServe?searchName=Rubus nigerrimus
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Updated	