

Plant Propagation Protocol for *Vaccinium ovalifolium*
 ESRM 412 – Native Plant Production

TAXONOMY	
Family Names	
Family Scientific Name:	Ericaceae
Family Common Name:	Heath
Scientific Names	
Genus:	Vaccinium
Species:	Ovalifolium
Species Authority:	Not found
Variety:	
Sub-species:	
Cultivar:	
Authority for Variety/Sub-species:	
Common Synonym(s) (include full scientific names (e.g., <i>Elymus glaucus</i> Buckley), including variety or subspecies information)	Vaccinium chamissonis (USFS)
Common Name(s):	Oval-lead blueberry (USDA) Ovallead huckleberry (USFS)
Species Code (as per USDA Plants database):	VAVO

Local habitat and abundance; may include commonly associated species	<p>Overstory: Thuja plicata, Tsuga heterophylla, Tsuga mertensiana, Picea sitchensis, Abies amabilis, Chamaecyparis nootkatensis. (USFS)</p> <p>Western understory: Vaccinium membranaceum, Vaccinium alaskaense Oxalis oregana, Polystichum munitum, Ledum glandulosum, Menziesia ferruginea, Rubus pedatus, Clintonia uniflora, Xerophyllum tenax, Vaccinium parvifolium, Oplonax horridus, Athyrium filix-femina, Tiarella trifoliata (USFS)</p> <p>Eastern understory: Cornus canadensis, Dryopteris spinulosa, Linnaea borealis, Clintonia borealis, Carex spp., Trientalis borealis, Maianthemum canadense, Vaccinium vitis-idaea (USFS)</p>
Plant strategy type / successional stage (stress-tolerator, competitor, weedy/colonizer, seral, late successional)	<p>Shade tolerant (USFS)</p> <p>Observed in climax forests and in young seral stands. Not found in early seral stands. (USFS)</p>
Plant characteristics (life form (shrub, grass, forb), longevity, key characteristics, etc)	<p>Deciduous shrub, (USFS)</p> <p>Leaves: alternate, entire – serrate margins, oval – elliptical shape, glabrous (USFS)</p> <p>Flowers: urn-shaped, pink (USFS)</p> <p>Fruit: round, purple – dark blue – black, average 26 seeds each (USFS)</p>
PROPAGATION DETAILS	
Ecotype (this is meant primarily for experimentally derived protocols, and is a description of where the seed that was tested came from):	Not found
Propagation Goal (Options: Plants, Cuttings, Seeds, Bulbs, Somatic Embryos, and/or Other Propagules):	Not found
Propagation Method	Seed: short dormancy period (USFS),

Product Type (options: Container (plug), Bareroot (field grown), Plug + (container-field grown hybrids, and/or Propagules (seeds, cuttings, poles, etc.))	Not found
Stock Type:	Not found
Time to Grow (from seeding until plants are ready to be outplanted):	6 -7 weeks (USFS)
Target Specifications (size or characteristics of target plants to be produced):	Not found
Propagule Collection (how, when, etc):	Not found
Propagule Processing/Propagule Characteristics (including seed density (# per pound), seed longevity, etc):	1,606,200 cleaned seeds per pound (3,538/g) (USFS) 50 to 60 percent germination under favorable conditions and up to 93 percent germination in optimal laboratory conditions (USFS) viable for to 12 years in storage, limited viability in wild (USFS)
Pre-Planting Propagule Treatments (cleaning, dormancy treatments, etc):	15 days of warm weather followed by 15 days of cold temperatures. (USFS) 2 percent light is required for germination (USFS)
Growing Area Preparation / Annual Practices for Perennial Crops (growing media, type and size of	decaying wood, humus, moss, and mineral soil in the wild. Acidic conditions, well drained (USFS) Not found

containers, etc):	
Establishment Phase (from seeding to germination):	Not found
Length of Establishment Phase:	Not found
Active Growth Phase (from germination until plants are no longer actively growing):	Not found
Length of Active Growth Phase:	Not found
Hardening Phase (from end of active growth phase to end of growing season; primarily related to the development of cold-hardiness and preparation for winter):	Not found
Length of Hardening Phase:	Not found
Harvesting, Storage and Shipping (of seedlings):	Not found
Length of Storage (of seedlings, between nursery and outplanting):	Not found
Guidelines for Outplanting / Performance on Typical Sites (eg, percent survival, height or diameter growth, elapsed	Not found

time before flowering):	
Other Comments (including collection restrictions or guidelines, if available):	Provides food for wildlife
	INFORMATION SOURCES
References (full citations):	<ul style="list-style-type: none"> • MacKinnon, A., Jim Pojar, and Paul B. Alaback. <i>Plants of the Pacific Northwest Coast: Washington, Oregon, British Columbia & Alaska</i>. Vancouver: Lone Pine Pub., 2004. Print. • <i>United States Department of Agriculture - Home</i>. Web. 21 Apr. 2010. <http://www.usda.gov/wps/portal/usda/usdahome>. • "Vaccinium Ovalifolium." <i>US Forest Service - Caring for the Land and Serving People</i>. Web. 21 Apr. 2010. <http://www.fs.fed.us/database/feis/plants/shrub/vacovl/all.html>.
Other Sources Consulted (but that contained no pertinent information) (full citations):	<ul style="list-style-type: none"> • <i>About the Native Plant Network</i>. Web. 21 Apr. 2010. <http://www.nativeplantnetwork.org/>. • "All About Oval-leaf Blueberry - Garden Plants and Gardening Forum - The Grow Spot." <i>Oval-leaf Blueberry</i>. Web. 21 Apr. 2010. <http://www.thegrowspot.com/know/f7/all-about-oval-leaf-blueberry-51575.html>. • Brenzel, Kathleen Norris. <i>Sunset Western Garden Book</i>. Menlo Park, CA: Sunset Pub., 2007. Print. • "EFFECTS OF STRATIFICATION AND COLD STORAGE ON THE SEED GERMINATION CHARACTERISTICS OF CASCADE HUCKLEBERRY AND OVAL-LEAVED BILBERRY." <i>Acta Horticulturae</i>. Web. 21 Apr. 2010. <http://www.actahort.org/books/810/810_80.htm>.

Other Sources
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- *About the Native Plant Network*. Web. 21 Apr. 2010. <<http://www.nativeplantnetwork.org/>>.
- "All About Oval-leaf Blueberry - Garden Plants and Gardening Forum - The Grow Spot." *Oval-leaf Blueberry*. Web. 21 Apr. 2010. <<http://www.thegrowspot.com/know/f7/all-about-oval-leaf-blueberry-51575.html>>.
- Brenzel, Kathleen Norris. *Sunset Western Garden Book*. Menlo Park, CA: Sunset Pub., 2007. Print.
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- "Plant Information | Garden Guides." *Garden Guides, Your Guide to Everything Gardening*. Web. 21 Apr. 2010. <<http://www.gardenguides.com/taxonomy/oval-leaf-blueberry-vaccinium-ovalifolium/>>.
- Robson, Kathleen A., Alice Richter, and Marianne Filbert. *Encyclopedia of Northwest Native Plants for Gardens and Landscapes*. Portland, Or.: Timber, 2008. Print.
- "Vaccinium Ovalifolium - Plants For A Future Database Report." *Plants For A Future - 7000 Useful Plants*. Web. 21 Apr. 2010. <<http://www.pfaf.org/database/plants.php?Vaccinium+ovalifolium>>.
- "Vaccinium Ovalifolium." *Gardenology.org - Plant Encyclopedia and Gardening Wiki*. Web. 21 Apr. 2010. <http://www.gardenology.org/wiki/Vaccinium_ovalifolium>.

Note: This template was modified by J.D. Bakker from that available at:
<http://www.nativeplantnetwork.org/network/SampleBlankForm.asp>