

Plant Propagation Protocol for *Viola sempervirens*
ESRM 412 – Native Plant Production



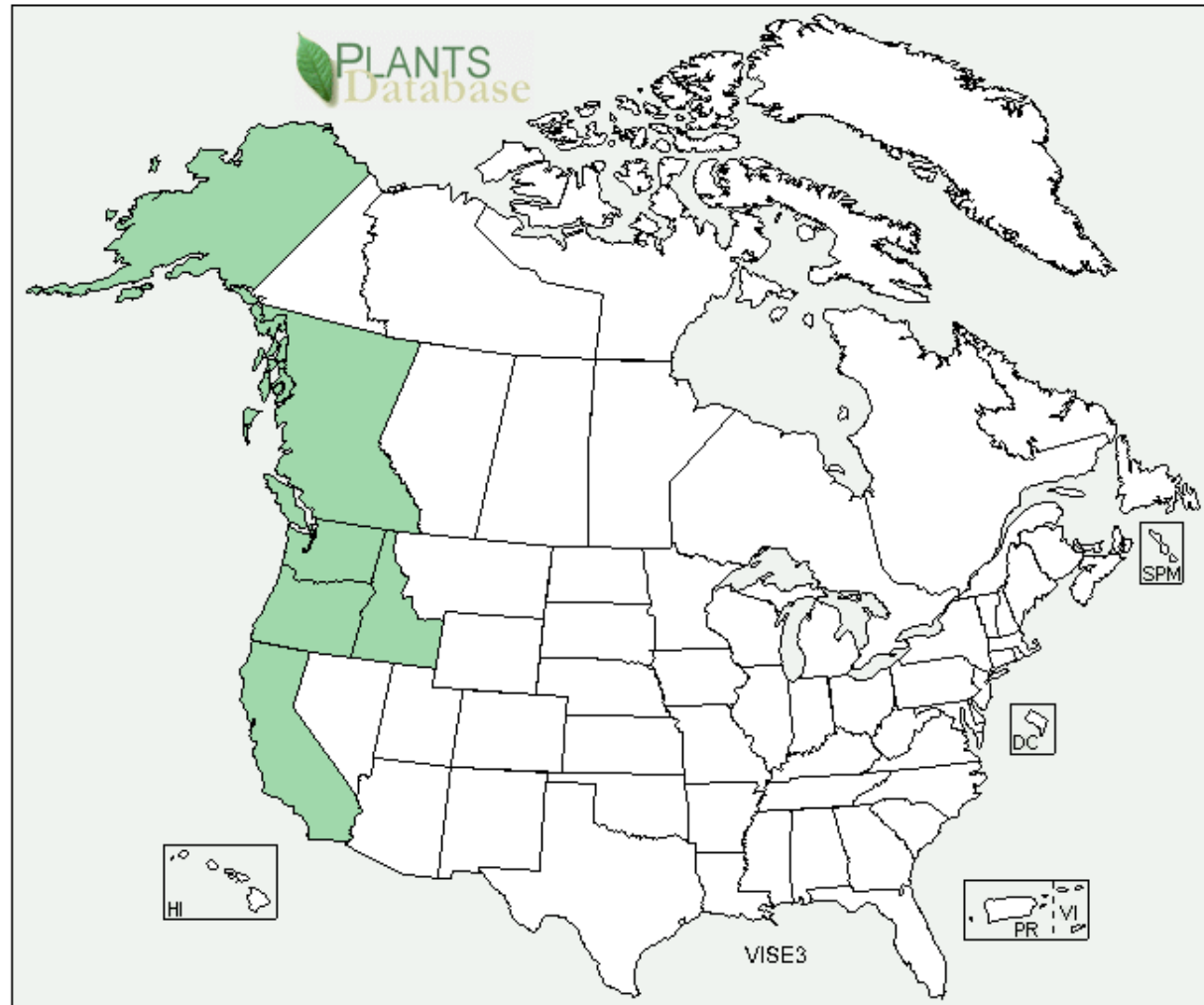
TAXONOMY	
Family Names	
Family Scientific Name:	Violaceae
Family Common Name:	Violet
Scientific Names	
Genus:	<i>Viola</i>
Species:	<i>sempervirens</i>

Species Authority:	Greene
Variety:	
Sub-species:	
Cultivar:	
Authority for Variety/Sub- species:	
Common Synonym(s) (include full scientific names, including variety or subspecies information)	VISA5 <i>Viola sarmentosa</i> Douglas ex Hook.
Common Name(s):	Evergreen violet [USDA] Trailing yellow violet [ENNP] Redwood violet [ENNP]
Species Code (as per USDA Plants database):	VISE3
GENERAL INFORMATION	

Geographical range
(distribution maps
for North America
and Washington
state)


Distribution:

Viola sempervirens Greene



[View Native Status](#)

Present Absent

	 <p>[USDA]</p>
Ecological distribution (ecosystems it occurs in, etc):	Moist, shady forests [Burke]
Climate and elevation range	Low to mid elevations [Burke]
Local habitat and abundance; may include commonly associated species	<p>Moist woods [Burke]</p> <p>Abundant [Burke]</p>

Plant strategy type / successional stage (stress-tolerator, competitor, weedy/colonizer, seral, late successional)	No information found
Plant characteristics (life form (shrub, grass, forb), longevity, key characteristics, etc)	Perennial herb, up to 8cm in height [ENNP] Leaves: leathery, cordate to kidney shape, 1-3 cm, persist through winter [Burke] Flowers: yellow, 1.5 cm across, bloom in early spring to early summer [ENNP]
PROPAGATION DETAILS	
Ecotype (this is meant primarily for experimentally derived protocols, and is a description of where the seed that was tested came from):	No information found
Propagation Goal (Options: Plants, Cuttings, Seeds, Bulbs, Somatic Embryos, and/or Other Propagules):	No information found
Propagation Method (Options: Seed or Vegetative):	Spreads by stolons [ENNP]
Product Type (options: Container (plug), Bareroot)	No information found

(field grown), Plug + (container-field grown hybrids, and/or Propagules (seeds, cuttings, poles, etc.))	
Stock Type:	No information found
Time to Grow (from seeding until plants are ready to be outplanted):	No information found
Target Specifications (size or characteristics of target plants to be produced):	No information found
Propagule Collection (how, when, etc):	No information found
Propagule Processing/Propagule Characteristics (including seed density (# per pound), seed longevity, etc):	No information found
Pre-Planting Propagule Treatments (cleaning, dormancy treatments, etc):	No information found
Growing Area Preparation /	No information found

Annual Practices for Perennial Crops (growing media, type and size of containers, etc):	
Establishment Phase (from seeding to germination):	Full to part shade, moist soil [ENNP] Rooted stem or from seed [WF]
Length of Establishment Phase:	No information found
Active Growth Phase (from germination until plants are no longer actively growing):	No information found
Length of Active Growth Phase:	No information 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):	No information found
Length of Hardening Phase:	No information found
Harvesting, Storage and Shipping (of seedlings):	No information found

Length of Storage (of seedlings, between nursery and outplanting):	No information found
Guidelines for Outplanting / Performance on Typical Sites (eg, percent survival, height or diameter growth, elapsed time before flowering):	No information found
Other Comments (including collection restrictions or guidelines, if available):	No information found

INFORMATION SOURCES

References (full citations):	<p><i>USDA Plant Database</i>. Web. <http://plants.usda.gov/java/profile?symbol=VISE3>. [USDA]</p> <p>"WTU Herbarium Image Collection - Burke Museum." <i>ELWHA RIVER VALLEY BIODIVERSITY</i>. Web. 19 May 2010. <http://biology.burke.washington.edu/herbarium/imagecollection.php?Genus=Viola&Species=sempervirens>. [Burke]</p> <p>Robson, Kathleen A., Alice Richter, and Marianne Filbert. <i>Encyclopedia of Northwest Native Plants for Gardens and Landscapes</i>. Portland, Or.: Timber, 2008. Print. [ENNP]</p> <p>"NPIN: Viola Sempervirens (Evergreen Violet)." <i>Lady Bird Johnson Wildflower Center - The University of Texas at Austin</i>. Web. 19 May 2010. <http://www.wildflower.org/plants/result.php?id_plant=VISE3>. [WF]</p>
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<p>Other Sources Consulted (but that contained no pertinent information) (full citations):</p>	<p>"Viola Sempervirens Information from NPGS/GRIN." <i>GRIN National Genetic Resources Program</i>. Web. 19 May 2010. <http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?430438>.</p> <p><i>Efloras</i>. Web. <http://www.efloras.org/browse.aspx?flora_id=1&name_str=Viola%20sempervirens>.</p> <p>"Search Results." <i>About the Native Plant Network</i>. Web. 19 May 2010. <http://www.nativeplantnetwork.org/Search.aspx?q=viola%20sempervirens>.</p> <p>"Viola Sempervirens - Plants For A Future Database Report." <i>Plants For A Future - 7000 Useful Plants</i>. Web. 19 May 2010. <http://www.pfaf.org/database/plants.php?Viola+sempervirens>.</p> <p>"Wallace W Hansen Native Plant Nursery and Gardens Perennial Section of Northwest Native Plant Catalog." <i>Wallace W Hansen Native Plants of the Northwest</i>. Web. 19 May 2010. <http://www.nwplants.com/business/catalog/vio_sem.html>.</p> <p>"ITIS Standard Report Page: Viola Sempervirens." <i>Integrated Taxonomic Information System</i>. Web. 19 May 2010. <http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=22164>.</p> <p>"Thunderstone's Webinator: Search." <i>US Forest Service - Caring for the Land and Serving People</i>. Web. 19 May 2010. <http://www.fs.fed.us/cgi-bin/taxis/searchallsites/search.allsites/>.</p> <p>"WSU CAHE Native Plant." <i>WSU CAHE Database Links</i>. Web. 19 May 2010. <http://cahedb.wsu.edu/nativePlant/scripts/webDisplayPlant.asp?ID=nv067>.</p> <p>"Washington Native Plant Society: Starflower Image Herbarium." <i>Washington Native Plant Society Home Page</i>. Web. 19 May 2010. <http://www.wnps.org/landscaping/herbarium/pages/viola-sempervirens.html></p> <p>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.</p> <p>Brenzel, Kathleen Norris. <i>Sunset Western Garden Book</i>. Menlo Park, CA: Sunset Pub., 2007. Print.</p>
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Protocol Author (First and last name):	Stephanie Grubb
Date Protocol Created or Updated (MM/DD/YY):	May 18, 2010

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