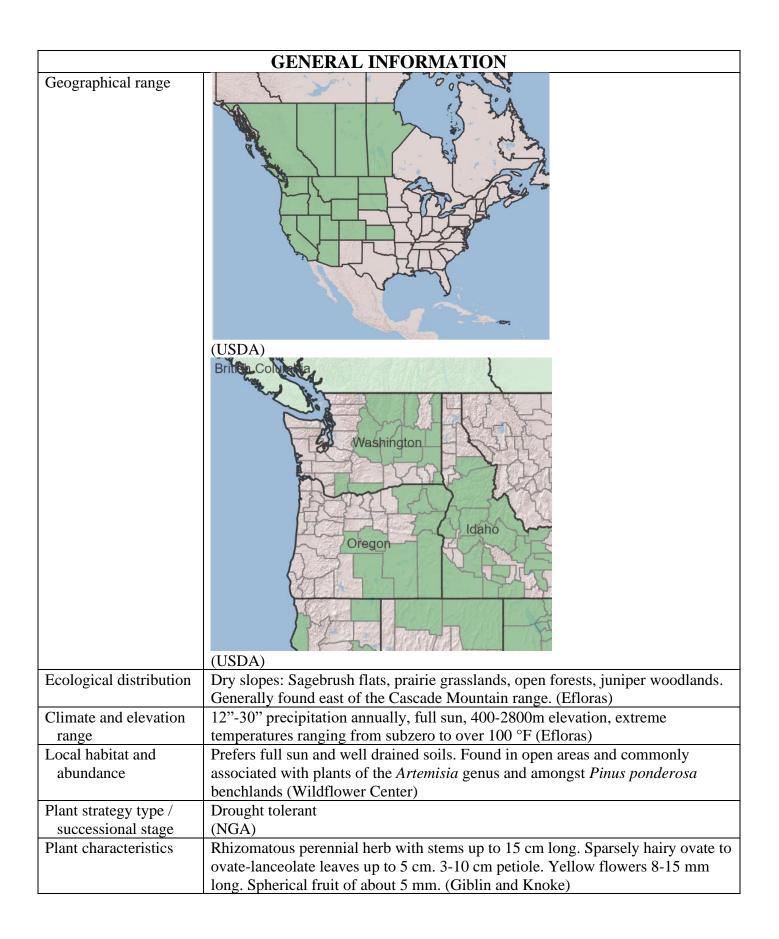
Plant Propagation Protocol for Viola vallicola

ESRM 412 – Native Plant Production URL: https://courses.washington.edu/esrm412/protocols/2022/VIVA.pdf



Ben Legler, 2005

TAXONOMY					
Plant Family					
Scientific Name	Violaceae				
Common Name	Violet				
Species Scientific Na	ame				
Scientific Name	Viola vallicola A. Nelson				
Varieties	var. vallicola A. Nelson				
	var. major (Hook.) Fabijan				
Sub-species	No subspecies recognized				
Cultivar	No information available				
Common Synonym(s)	Viola nuttallii Pursh ssp. Vallicola (A. Nelson) H. St. John				
	Viola nuttallii Pursh var. vallicola (A. Nelson) Roy L. Taylor & MacBryde				
	Viola russellii B. Boivin				
Common Name(s)	Sagebrush Violet, Yellow Sagebrush Violet, Valley Violet				
Species Code (as per	VIVA				
USDA Plants					
database)					



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PROPAGATION DETAILS

Little propagation information found for *V. vallicola*, propagation details provided for *V. pensylvanica*, a

	related species in the Violaceae family
Ecotype	N/A
Propagation Goal	Plants
	(RNGR, 2002)
Propagation Method	Seed
1 0	(RNGR, 2002)
Product Type	Container (plug)
7 1	(RNGR, 2002)
Stock Type	Plu
7 1	(RNGR, 2002)
Time to Grow	4 months
	(RNGR, 2002)
Target Specifications	Well-developed crowns, roots and rhizomes filling soil profile in container
C I	(RNGR, 2002)
Propagule Collection	Seed capsules are explosive making seed collection difficult. Seed collected by
Instructions	hand, harvested in July
	(RNGR, 2002)
Propagule	Dry seeds for 1-2 weeks in bins, shaking or turning seed heads. Seeds are not
Processing/Propagule	cleaned, and stratification can begin as soon as the seeds are dry.
Characteristics	(RNGR, 2002)
Pre-Planting Propagule	120 days cool/moist stratification prior to germination (38F). Should be stored in
Treatments	cool, dry environment for up to 3 years.
	(RNGR, 2002)
Growing Area	Propagation environment: Greenhouse; constant circulating air
Preparation / Annual	Sowing media: Scotts Redi-earth Plug and Seedling Mix (vermiculite and
Practices for	sphagnum peat moss). 2 seeds sown per cell
Perennial Crops	Container type: 24 cell (2" diameter) 14" x 8.5" x 4" flat
•	Seeds sown year round due to low variable success rates
	(RNGR, 2002)
Establishment Phase	January-August: Greenhouse kept 65°F both day and night, though ambient
Details	temperatures can reach 100°F during summer days
	September-December: Thermostat set to 55°F during day and night, ambient
	temperatures can reach up to 75°F during day.
	Soil kept damp with misting during germination. Newly sown trays placed on
	south side of greenhouse with no artificial light.
	(RNGR, 2002)
Length of	3-5 months
Establishment Phase	(RNGR, 2002)
Active Growth Phase	Soil is no longer kept consistently moist. Temperatures stay consistent for all
	stages of growth (seeds sown at all times of the year). Trays moved to north side
	of greenhouse (cooler)
Length of Active	5 months
Growth Phase	(RNGR, 2002)

Hardening Phase	Early to late spring, mature plants moved to a cold frame with cover to diffuse sunlight. Watered less frequently					
Length of Hardening Phase	6-12 weeks (RNGR, 2002)					
Harvesting, Storage and Shipping	Flats are transplanted into the field late May to early October. Those that are not transplanted in the summer stay in the greenhouse for another season. (RNGR, 2002)					
Length of Storage	Can be stored in the nursery for another season if not outplanted in the summer (RNGR, 2002)					
Guidelines for Outplanting / Performance on Typical Sites	Generally flower in June-July, may also flower in Autumn. Seed is ant dispersed with low germination success (RNGR, 2002)					
Other Comments	Ripening seed capsules must be watched to ensure collection due to explosive nature of seed dispersal. (RNGR, 2002)					
	INFORMATION SOURCES					
References	"Propagation Protocol for Production of Container (Plug) Viola Praemorsa Plants." Reforestation, Nurseries and Genetics Resources (RNGR). (2015). Available online at: rngr.net/npn/propagation/protocols/violaceaeviola-4085					
	Giblin, D., and Knoke, D. "Viola Nuttallii Var. Vallicola." Burke Herbarium Image Collection, https://biology.burke.washington.edu/herbarium/imagecollection/taxon.php ?Taxon=Viola+nuttallii+var.+vallicola.					
	"Viola Vallicola A. Nelson." <i>ITIS Standard Report</i> , https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&sear ch+value=505722#null.					
	"Viola Vallicola A. Nelson: Sagebrush Violet." <i>USDA Plants Database</i> , USDA, https://plants.usda.gov/home/plantProfile?symbol=VIVA.					
	"Viola Vallicola A. Nelson." <i>Viola Vallicola in Flora of North America</i> @ Efloras.org, http://www.efloras.org/florataxon.aspx?flora_id=1&taxon_id=250100973.					
	"Viola Vallicola." Lady Bird Johnson Wildflower Center – The University of Texas at Austin, https://www.wildflower.org/plants/result.php?idplant=VIVAV.					

	"Yellow Prairie Violet (Viola Nuttallii)." <i>Plant Database</i> , The National Gardening Association (NGA), https://garden.org/plants/view/85989/Yellow-Prairie-Violet-Violanuttallii/.
Other Sources Consulted	Ellis, B. E., and Chen, C. H. "CLONING NATIVE PRAIRIE PLANTS BY TISSUE CULTURE." Zimmerman, J. H. "Propagation of spring prairie plants." Proceedings of the 2nd Midwest Prairie Conference, Parkside, WI, USA. 1972.
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