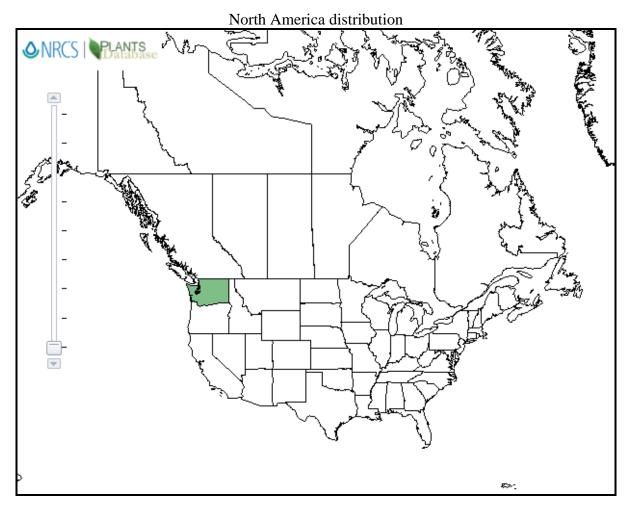
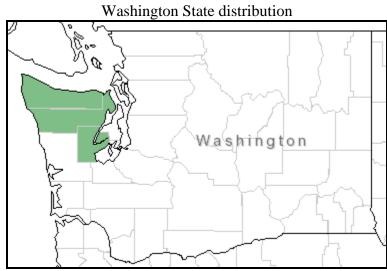
Plant Propagation Protocol for Viola flettii

ESRM 412 – Native Plant Production

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





TAXONOMY			
Plant			
Family			
Scientific	Violaceae		
Name			
Common	Violet family		
Name			
Species			
Scientifi			
c Name			
Scientific	Viola flettii Piper		
Name	Jesus Jesus - Pro		
Varieties	N/A		
Sub-species	N/A		
Cultivar	N/A		
Common	N/A		
Synonym			
(s)			
Common	Olympic violet, Flett's Violet		
Name(s)			
Species	VIFL		
Code (as			
per USDA			
Plants			
database)			
Gatabase)	GENERAL INFORMATION		
Geographic	Washington- See maps above (1)		
al range			
Ecological	Endemic to the Olympic mountains, WA. (4)		
distributio			
n			
Climate and	Seasonally moist climates, high elevation. (5)		
elevation			
range			
Local	Alpine rock crevices and talus slopes at high elevations. (5)		
habitat and			
abundanc			
e			
Plant	No information.		
strategy			
type/			
successio			

nal stage	
Plant	General: glabrous perennial herb with erect stems (3-15cm) from fleshy rhizome. Leaves:
characteri	broad, fleshy purplish-green leaves with reniform blades, finely-toothed; stipules are
stics	lanceolate. Flowers: 1.5 cm long with yellow and violet colored petals; style head is well
	bearded. Fruit is a 3-valved capsule. (4)
	• ` ` `

bearded. Fruit is a 3-val	ved capsule. (4)
	OPAGATION DETAILS
	da flettii Piper, propagation method for Violet family)
Ecotype	N/A
Propagation Goal	Plants
Propagation Method	Stem- tip cutting
Product Type	Cuttings
Stock Type	Cells, 4 in. pots
Time to Grow	No information.
Target Specifications	Cuttings
Propagule Collection Instructions	Collect cuttings in spring-early summer about 1-2 in long. If cuttings are from a greenhouse collect cuttings soon after growth has begun. Stems should be soft, almost succulent. (6)
Propagule Processing/Propagule Characteristics	No information
Pre-Planting Propagule Treatments	Cuttings loose moisture easily so it is important that roots are kept moist and well protected. (6)
Growing Area Preparation / Annual Practices for Perennial Crops	Cuttings should be inserted into a media mix that supports the cuttings and be sterile, water-retentive, and well aerated: Mixtures of peat, and grit, perlite, vermiculite or sand are among the best options. To insert cuttings into rooting media, make small holes and insert each cutting so that its leaves sit just above the surface. Place cuttings in a closed case or tent them under plastic (to keep humid) in bright light with a temperature between 65-70°F (6)
Establishment Phase Details	Once cuttings have rooted, up-pot to 4 in. pots and keep them encased with soilless potting mix. A cold frame, greenhouse, or plastic film-tunnel may be used for growing cuttings on or in warm climates; shade from strong sun. (6)
Length of Establishment Phase	4-8 weeks. (6)
Active Growth Phase	No information.
Length of Active Growth Phase	No information.
Hardening Phase	Period of hardening is essential for survival of cuttings. (6)
Length of Hardening Phase	No information.
Harvesting, Storage and Shipping	N/A
Length of Storage	N/A
Guidelines for Outplanting / Performance on Typical Sites	No information.
Other Comments	

INFORMATION SOURCES			
References	1. "Viola flettii Piper". Retrieved from https://plants.usda.gov/core/profile?symbol=VIFL		
	2. "Flora of North America." Retrieved from		
	http://www.efloras.org/florataxon.aspx?flora_id=1&taxon_id=250100914		
	3. "Viola flettii". Retrieved from		
	https://www.wildflower.org/plants/result.php?id_plant=VIFL		
	4. "Viola flettii". Retrieved from		
	http://biology.burke.washington.edu/herbarium/imagecollection.php?Genus=Viola&Speci		
	<u>es=flettii</u>		
	5. "Alpine". Retrieved from https://www.nps.gov/olym/learn/nature/alpine.htm		
	6. Toogood, Alan. "The American Horticulture Society: Plant Propagation." New York,		
	NY, DK Publishing, 1999. 155, 213		
Other	"Turner Photographics: Viola flettii". Retrieved from		
Sources	https://www.pnwflowers.com/flower/viola-flettii		
Consulted	http://biology.burke.washington.edu/herbarium/waflora/checklist.php?Taxon=Viola%20fl		
	ettii&ID=9413		
	"Washington Flora Checklist: Viola Flettii Piper". Retrieve from		
	https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=220		
	<u>80#null</u>		
	"Viola Flettii Piper". Retrieved from https://www.gbif.org/species/5331224		
	http://explorer.natureserve.org/servlet/NatureServe?searchName=Viola+flettii		
Protocol	Sara Wallesen		
Author			
Date	05/16/2018		
Protocol			
Created			