Plant Propagation Protocol for Viola bicolor

ESRM 412 – Native Plant Production

URL: https://courses.washington.edu/esrm412/protocols/2023/VIBI.pdf

TAXONOMY		
Dlant Family	TAXONOMI	
Plant Family Scientific Name	Viola bicolor	
Common Name		
	Field Pansy	
Species Scientific Name		
Scientific Name	Viola bicolor Pursh	
Varieties	n/a	
Sub-species	n/a	
Cultivar	n/a	
Common Synonym(s)	Viola kitaibeliana auct. non Schult. Viola kitaibeliana Schult. var. rafinesquei (Greene) Fernald Viola rafinesquei Greene	
Common Name(s)	Field pansy, American field pansy, Johnny Jump Up, Violet, Johnny Jump Up Violet	
Species Code (as per USDA Plants database)	VIBI	
GENERAL INFORMATION		
Geographical range	Image: USDA Plants Found across much of North America, although limited to more of the Eastern United States. With respect to the Pacific Northwest, it is found in British Columbia and Idaho (USDA) Closely related to a pansy variety common to Eurasia called Viola tricolor (NC State)	
Ecological distribution	Most commonly found in moist sand prairies, fields, edges of sandy paths or roads, waste places, and generally sandy areas with a history of disturbance (NC State)	
Climate and elevation range	0m – 3000m in elevation; fairly adaptable to many climates (Flora of North America)	

Local habitat and abundance	Attracts many pollinators including bees, butterflies, and birds; Birds are also known to feed on the seeds; high growth rate and will spread fast	
Plant strategy type /	Weedy plant that is fairly adaptable to shade and many types	
successional stage	of soils	
Plant characteristics	Weedy herb/wildflower; flowers are blue and white with the petals being longer than the sepals (NC State); annual species	
PROPAGATION DETAILS		
Ecotype	Based on information from Utah State University on how to	
71	grow Viola tricolor	
Propagation Goal	Plants	
Propagation Method	Seed	
Product Type	Bareroot or outdoor container	
Stock Type	Bareroot or raised beds with about 7-12 inches of space	
71	between and at least 9 inches of depth	
Time to Grow	7-8 months	
Target Specifications	6 inches tall; flowers about 1-3 inches in diameter	
Propagule Collection	n/a	
Instructions		
Propagule	n/a	
Processing/Propagule		
Characteristics		
Pre-Planting Propagule	n/a	
Treatments		
Growing Area Preparation /	Rich well drained soil; a 5-10-5 NPK fertilizer added to the	
Annual Practices for	soil; water seed bed before planting and wait for water to drain	
Perennial Crops	before seeding	
Establishment Phase Details	Place cover (i.e. burlap) over seeds after seeding	
Length of Establishment	5 to 8 days	
Phase		
Active Growth Phase	Shade seedling until true leaves develop; water lightly but not	
	too heavily; thin seedlings to about an inch or so apart	
Length of Active Growth	Once they have developed 6 to 8 true leaves; for the North	
Phase	states, transplant in early September	
Hardening Phase	Move seedlings to permanent location placing them 7-12	
	inches apart; when ground freezes apply mulch or other cover	
	to minimize fluctuations in ground temperature	
Length of Hardening Phase	End of winter when they begin to flower	
Harvesting, Storage and Shipping	n/a	
Length of Storage	n/a	
Guidelines for Outplanting /	Flowering occurs in early spring and will last into early fall;	
Performance on Typical Sites	plants will die back and regrow	
Other Comments	n/a	
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INFORMATION SOURCES	
References	Utah State University. "Growing Pansies." Utah State
	University, Yard and Garden Extension.
	https://extension.usu.edu/yardandgarden/research/growing-
	<u>pansies</u>
	Floras of North America. "Viola bicolor Pursh." Floras of
	North America. www.eFloras.org.
	North Carolina State. "Viola Bicolor." NC State Extension
	Gardener Plant Toolbox.
	https://plants.ces.ncsu.edu/plants/viola-bicolor/
	USDA NRCS National Plant Data Team. "Viola bicolor
	Pursh." USDA.
	https://plants.usda.gov/home/plantProfile?symbol=VIBI.
Other Sources Consulted	n/a
Protocol Author	Kyle Yasui
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