Plant Propagation Protocol for Fringecup, *Tellima grandiflora* ESRM 412 – Native Plant Production University of Washington Spring 2008





TAXONOMY		
Family Names		
Family Scientific	Saxifragaceae	
Name:		
Family Common	Saxifrage Family	
Name:		
Scientific Names		
Genus:	Tellima	
Species:	grandiflora	
Species Authority:	(Pursh) Dougl. ex Lindl.	
Common		
synonym(s)		
Genus:	Tellima	
Species:	odorata	
Species Authority:	T.J. Howell	
Common Name(s):	Big Flower Tellima, Fringecup	
Species Code	TEGR2	
(USDA Plant		
database):		

GENERAL INFORMATION		
General Distribution	Moist woods, riparian zones and lower mountain slopes from S. Alaska to San Francisco Bay. It grows mainly west of the Cascades but it is also found through the Columbia River Gorge, E. British Columbia and N. Idaho and Montana. ^{2,4,5}	
Climate and elevation range	Predominantly occurs in regions with Pacific maritime climate but it has also been identified in the moister areas of regions with interior continental climate, such as Idaho and Montana. Common at elevations from sea level to 1000 m. ^{2,4}	
Local habitat and abundance	Moist forest understories and riparian zones of shady coniferous and deciduous forests throughout Puget Sound from the lowlands to mid elevations in the Cascades and Olympics. ^{2,4}	
	Commonly found beneath red alder (<i>Alnus rubra</i>), big-leaf maple (<i>Acer macrophyllum</i>), Douglas-fir (<i>Pseudotsuga menziesii</i>), western red cedar (<i>Thuja plicata</i>), black cottonwood and western hemlock (<i>Tsuga heterophylla</i>). Strongly associated with sword fern (<i>Polystichum munitum</i>), salmonberry (<i>Rubus spectabilis</i>), thimbleberry (<i>Rubus parviflorus</i>), red elderberry (<i>Sambucus racemosa</i>), California hazelnut (<i>Corylus cornuta</i>), snowberry (<i>Symphoricarpos albus</i>) and other common understory shrubs. Creates mixed understory ground cover with Pacific waterleaf (<i>Hydrophyllum tenuipes</i>), foamflower (<i>Tiarella trifoliata</i>), youth-on-age (<i>Tolmiea menziesii</i>) and other understory groundcovers. ^{2,4,7}	
Plant strategy type / successional stage	Associated with more mature forests. Generally it is not an early successional but it is capable of forming thick monotypic patches in forest gaps, along streambanks and along low elevation hiking trails indicating that it can take advantage of disturbances and therefore may be considered ruderal. ^{2,4} It is a tenacious native competitor against invasive weeds such as <i>Phalaris arundinacea</i> (Reed Canary Grass) and <i>Taraxacum officinale</i> (Common Dandelion). ⁶	
PROPAGATION DETAILS		
Ecotype	Not available.	
Propagation Goal:	Plants	
Propagation Method:	Seed	
Product Type:	Container (plug)	
Stock Type:	4 inch pots	
Time to Grow::	224 days from date seeds are sown to date ready for transplanting.	
Target	Germinants ready to plant after first year as 4 inch pots.	
Specifications:	2	
Propagule	Hand collect into porous bag ³	
Collection:		

Propagule	7,560,000 seeds per pound, After screening, purity: 99% ³	
Processing/Propag		
ule Characteristics:	Blooms in late Spring/Early Summer. Collect Seeds soon after. ¹	
Pre-Planting	Cold storage, 33-38 degrees Fahrenheit ³ (Typical low humidity, low	
Propagule	temperature storage). ⁷	
Treatments:		
Growing Area	Seeds are surface sown in flats. ³	
Preparation /		
Annual Practices		
for Perennial		
Crops:		
Establishment Phase:	Flats are watered with mist irrigation system. Seeds sown June 1^3 or in	
	greenhouse before last frost. ¹	
Length of	112 days	
Establishment		
Phase:		
Active Growth	Transplant to 4 inch pots containing standard potting mix. ³ Mature	
Phase:	plants have height of 12-18 in. (30-45 cm) ¹	
Length of Active	112 days	
Growth Phase:		
Hardening Phase:	No reference of method in literature.	
Harvesting, Storage	No reference of method in literature.	
and Shipping (of		
seedlings):		
Length of Storage:	1 year	
Guidelines for	Transplant Survival averages 95%. ³ Because <i>Tellima grandiflora</i> is	
Outplanting /	associated with sword fern (Polystichum munitum), salmonberry (Rubus	
Performance on	spectabilis), thimbleberry (Rubus parviflorus), it likely favors moist	
Typical Sites:	environments, partial to full shade, ideally alongside other such	
	understory species. Requires consistently moist soil. Spacings of 30 cm	
	or less apart will result in more complete monotypic ground cover.	
	Blooms in late Spring/Early Summer.	
Other Comments	Because it competes well against invasive weeds, it is useful in	
	succession-strategy restoration projects if shade is established. ⁶	
	Fresh collected divisions could be installed immediately, especially in	
	late fall/winter. Divisions most likely could be installed same season or	
	potted for more mature plants the next season. No references were	
	made in the literature about direct seeding.	
INFORMATION SOURCES		
References	1) Dave's Garden, Inc. 2003. Plants Database.	
	http://davesgarden.com/ Last access: April 15, 2008.	
	2) Hitchcock, C. Leo and Cronquist, Arthur. Flora of the Pacific	
	Northwest. 1998. University of Washington Press, Seattle and	
	London.	

	 Native Plants Journal and Network. <u>http://www.nativeplantsnetwork.org/</u> Last access: April 15, 2008.
	 Pojar, Jim and McKinnon, Andy, eds. Plants of the Pacific Northwest Coast: Washington, Oregon, British Columbia and Alaska. 1994. Lone Pine Press, British Columbia.
	 USDA, NRCS. 2002. The PLANTS Database, Version 3.5 (<u>http://plants.usda.gov</u>) National Plant Database Center. Last access: April 15, 2008.
	 Mendenhall, Deborah. Washington Native Plant Society. Personal Interview: April 8, 2008.
	 7) Pond, Rodney. <u>http://depts.washington.edu/propplnt/Plants/EHUF_412_TEGR.</u> <u>htm</u>, April 15, 2003. Last access: April 15, 2008.
	8) <u>www.MostlyNatives.com</u> Last access: April 15, 2009.
	 Washington Native Plant Society. <u>www.wnps.org</u> Last access: April 15, 2008
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Date Protocol	04.15.08

Updated from protocol by Rodney Pond, April 15, 2003. http://depts.washington.edu/propplnt/Plants/EHUF_412_TEGR.htm