

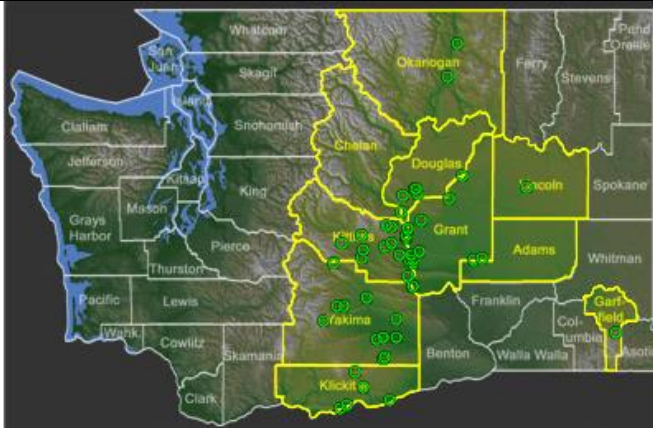
Plant Propagation Protocol for *Erigeron poliospermus* A. Gray

ESRM 412 – Native Plant Production

Protocol URL: [https://courses.washington.edu/esrm412/protocols/\[USDA Species Code.pdf\]](https://courses.washington.edu/esrm412/protocols/[USDA Species Code.pdf])

TAXONOMY	
Plant Family	Asteraceae
Scientific Name	<i>Erigeron poliospermus</i>
Common Name	Fleabane
Species Scientific Name	
Scientific Name	<i>Erigeron poliospermus</i> A. Gray
Varieties	typicus Cronquis – purple cushion fleabane
Sub-species	N/A(1)
Cultivar	N/A
Common Synonym(s)	N/A
Common Name(s)	Purple cushion fleabane
Species Code (as per USDA Plants database)	ERPOP
GENERAL INFORMATION	
Geographical range	<p>Symbol: ERPOP</p> <p>USDA-NRCS-NGCE</p> <p>Legend:</p> <ul style="list-style-type: none"> Native Introduced Both Absent/Unreported

(1)

		(4)
Ecological distribution	Open, lowland dry habitats predominantly east of the Cascade mountains, often found near sagebrush (5)	
Climate and elevation range	USDA Plant Hardiness Zones 2 to 9 (2)(6), flowering starts summer and/or early autumn, drier climate.	
Local habitat and abundance	Commonly associated with the presence of sagebrush and rocky (basalt, gravel) surfaces (5)	
Plant strategy type / successional stage	Heat stress tolerant, and can grow in rocky surfaces. Potentially weedy and invasive (2) depending on presence of insects and climactic conditions.	
Plant characteristics	Forb/herb. Hardy perennial, sometimes biennial. Daisy-like rays with herbaceous foliage. (2)	
<p style="text-align: center;">PROPAGATION DETAILS</p> <p style="text-align: center;">All propagation details gathered from Erigeron Plant Care Guide (2) unless otherwise noted</p>		
Ecotype	N/A	
Propagation Goal	Plants	
Propagation Method	Seed (surface)	
Product Type	Container (plug)	
Stock Type	160ml container seedling	
Time to Grow	9 – 10 weeks	
Target Specifications	10-15 cm in height	
Propagule Collection Instructions	N/A	
Propagule Processing/Propagule Characteristics	Information is largely unavailable at this time; however seed longevity/dormancy may last indefinitely unless stratification conditions are met.	
Pre-Planting Propagule Treatments	Seeds are under physiological dormancy and must be exposed to outside stimulus to break this dormancy. Seeds will prefer a cold, wet storage period (4-10 C) for approximately 8 weeks before being transplanted outdoors before the last frost, or the first month of Autumn.	

Growing Area Preparation / Annual Practices for Perennial Crops	160ml Plug flats will be sufficient to support seedlings before replanting outdoors. Insufficient information on specific soil types, however, purple cushion fleabane is known to grow in more coarse, gravelly soils that must be well drained. Flowering plants will need to be deadheaded, and will need to be divided every three years to maintain vigorous growth.
Establishment Phase Details	Seeds will tend to prefer a slight bit of cover and shade. Sow the seeds at a depth of the diameter of the seed itself to maintain appropriate oxygenation and moisture retention.
Length of Establishment Phase	Germination: 15-20 days (8)
Active Growth Phase	Fully grown fleabanes will need to be cut down back to ground level every Autumn and require application of a light feed.
Length of Active Growth Phase	8-12 weeks
Hardening Phase	N/A
Length of Hardening Phase	N/A
Harvesting, Storage and Shipping	N/A
Length of Storage	8 weeks
Guidelines for Outplanting / Performance on Typical Sites	Insufficient information on this topic, however, fleabanes are known for their hardiness and resilience to colder temperatures and coarse soil conditions. Sowing outside during early spring or autumn should produce flower in the subsequent year during summer or early autumn. Large variability in fully grown height of 4-36 inches.
Other Comments	Not very many primary sources of information regarding the propagation protocols of this particular species. Many of the databases were restricted to basic species descriptions, and lacking explicit information regarding the hardening phases.

INFORMATION SOURCES

References	<ol style="list-style-type: none"> 1. USDA. (n.d.). Plants Profile for Erigeron poliospermus poliospermus (purple cushion fleabane). Retrieved April 25, 2016, from http://plants.usda.gov/core/profile?symbol=ERPOP 2. Fleabane ~ Erigeron Plant Care Guide ~ Varieties. (2013). Retrieved April 25, 2016, from https://auntiedogmasgardenspot.wordpress.com/2013/06/20/fleabane-
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	<p>erigeron-plant-care-guide-varieties/</p> <ol style="list-style-type: none"> 3. TAXONOMY Plant Family Species Scientific Name Allium ... (n.d.). Retrieved April 26, 2016, from http://courses.washington.edu/esrm412/protocols/ALAC4.pdf 4. WTU Herbarium Image Collection - Burke Museum. (n.d.). Retrieved April 26, 2016, from http://biology.burke.washington.edu/herbarium/imagecollection.php?Genus=Erigeron 5. Cushion Fleabane, Hairy-seeded Daisy, Kittitas Fleabane, Purple Cushion Fleabane. (n.d.). Retrieved April 26, 2016, from http://science.halleyhosting.com/nature/gorge/sun/daisy/erigeron/cushion.htm 6. United States Department of Agriculture. (n.d.). Retrieved April 27, 2016, from http://planthardiness.ars.usda.gov/PHZMWeb/ 7. ERIGERON POLIOSPERMUS SEEDS (Purple Cushion Fleabane, Grey-seeded fleabane, Hairy Seeded Daisy). (n.d.). Retrieved April 27, 2016, from http://www.plant-world-seeds.com/store/view_seed_item/5100 8. Erigeron poliospermus at B & T World Seeds. (n.d.). Retrieved April 27, 2016, from http://b-and-t-world-seeds.com/cartall.asp?species=Erigeron poliospermus
Other Sources Consulted	N/A
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