


Plant Propagation Protocol for *Anemone parviflora*

ESRM 412 – Native Plant Production

URL: <https://courses.washington.edu/esrm412/protocols/2022/ANPA.pdf>

TAXONOMY	
Plant Family	
Scientific Name	Ranunculaceae
Common Name	Buttercup
Species Scientific Name	
Scientific Name	<i>Anemone parviflora</i> Michx.
Varieties	<i>Anemone parviflora</i> Michx. var. <i>grandiflora</i> Ulbr.
Sub-species	None listed
Cultivar	None listed
Common Synonym(s)	None listed
Common Name(s)	Small-flowered anemone
Species Code (as per USDA Plants database)	ANPA
GENERAL INFORMATION	
Geographical range	

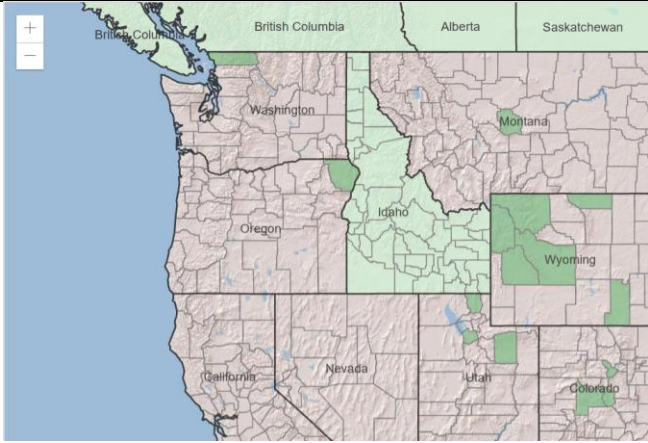
	 <p>Images courtesy of USDA Website.</p>
Ecological distribution	Occurs on both sides of the Cascades crest in the North Cascades Washington. Also found in Alaska to northern Washington, east to Montana and Wyoming, in some locations in Utah and Colorado and east across northern Canada to the Atlantic Ocean (6).
Climate and elevation range	Climate information not available. Elevation: 0-3800m (5).
Local habitat and abundance	Found in mountain meadows and subalpine stream banks (6).
Plant strategy type / successional stage	Weedy/colonizer (8)
Plant characteristics	Forb/herb, Perennial (2). Plant typically grows 6-8" tall, with solitary and upward-facing white apetalous flowers. The stem has three-part basal leaves (3).



Image courtesy of Burke Museum (Ben Legler)



Image Courtesy of Burke Museum (Craig Althen)

PROPAGATION DETAILS: Seeds

Ecotype	No information available.
Propagation Goal	Plants
Propagation Method	Seed
Product Type	Bareroot and Container (Plug) & seed.
Stock Type	No information available.
Time to Grow	12 months (10).
Target Specifications	No information available.

Propagule Collection Instructions	<p>To harvest seeds, let seedheads dry on plants before removing and collecting seeds (4).</p> <p>No information available on when to collect.</p>
Propagule Processing/Propagule Characteristics	No information available.
Pre-Planting Propagule Treatments	<p>Seeds need to be refrigerated for three weeks before Spring planting (indoors) (9).</p> <p>Spring sowing, sow seeds with a moist medium in a plastic bag and refrigerate for 2-3 weeks (6).</p>
Growing Area Preparation / Annual Practices for Perennial Crops	Grow in peat pots or trays of potting mix (9).
Establishment Phase Details	No information available.
Length of Establishment Phase	Germination occurs in about 4-5 weeks (9).
Active Growth Phase	<p>Fertilize once or twice during the growing season. No information of timing of fertilization provided.</p> <p>Provide anemones with consistent water supply but avoid overwatering (11).</p>
Length of Active Growth Phase	11-12 months (10).
Hardening Phase	<p>To prepare plants for cold hardiness, provide mulch in areas where winters are severe (7).</p> <p>Can also cover plants with heavy row cover to protect from the cold (10).</p>
Length of Hardening Phase	No information available.
Harvesting, Storage and Shipping	No information available.

Length of Storage	No information available.
Guidelines for Outplanting / Performance on Typical Sites	In general, Anemone plants should be outplanted in early Spring when soil is cool and light frost is possible. Can alternatively be planted in early Autumn (6).
Other Comments	None
PROPAGATION DETAILS: Vegetative	
Ecotype	No information available.
Propagation Goal	Plants
Propagation Method	Vegetative (Division)
Product Type	Bareroot
Stock Type	No information available.
Time to Grow	No information available.
Target Specifications	No information available.
Propagule Collection Instructions	Take root cuttings in spring or summer and divide roots in spring (7). Only divide when species are dormant or as their leaves die down (10).
Propagule Processing/Propagation Characteristics	No information available.
Pre-Planting Propagule Treatments	Cut rhizome into section, each with a bud, replant before drying out (10).
Growing Area Preparation / Annual Practices for Perennial Crops	Plant 3"-5" deep with fuzzy side facing upwards (7).
Establishment Phase Details	No information available.
Length of Establishment Phase	No information available.
Active Growth Phase	Fertilize once or twice during the growing season. No information for timing of fertilization provided.

	Provide anemones with consistent water supply but avoid overwatering (11).
Length of Active Growth Phase	11-12 months (10).
Hardening Phase	To prepare plants for cold hardiness, provide mulch in areas where winters are severe (7). Can also cover plants with heavy row cover to protect from the cold (11).
Length of Hardening Phase	No information available.
Harvesting, Storage and Shipping	No information available.
Length of Storage	No information available.
Guidelines for Outplanting / Performance on Typical Sites	No additional information available – information same as seed propagation section.
Other Comments	None

INFORMATION SOURCES

References (full citations)	<ol style="list-style-type: none"> 1. “Anemone Parviflora.” <i>Lady Bird Johnson Wildflower Center - The University of Texas at Austin</i>, 1 Jan. 2007, https://www.wildflower.org/plants/result.php?id_plant=ANPA. 2. “Anemone Parviflora.” <i>Missouri Botanical Garden</i>, https://www.missouribotanicalgarden.org/PlantFinder/PlantFinderDetails.aspx?taxonid=299999&isprofile=0&. 3. “Anemone Species, Few-Flowered Anemone, Small-Flowered Anemone.” <i>Dave's Garden</i>, https://davesgarden.com/guides/pf/go/91303/#b. 4. Dutton, Bryan E, et al. “Anemone Parviflora.” <i>Flora of North America</i>, http://dev.semanticfna.org/Anemone_parviflora. 5. Knoke, Don, and David Giblin. “Anemone Parviflora.” <i>Burke Herbarium Image Collection</i>, https://biology.burke.washington.edu/herbarium/imagecollection/taxon.php?Taxon=Anemone+parviflora. 6. Powell, Eileen. <i>From Seed to Bloom: How to Grow over 500 Annuals, Perennials & Herbs</i>. Storey Publishing, LLC, 1995. 7. “Report of the Select Standing Committee on Agriculture and Colonization.” <i>Google Books</i>, Google, 1896,
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	<p>https://books.google.com/books?id=ryxOAAAAYAAJ&pg=RA2-PA146&lpg=RA2-PA146&dq=is%2Banemone%2Bflower%2Bweedy%2Fcolonizer&source=bl&ots=_EZP31engQ&sig=ACfU3U2eQD9plAR1nlPenCISI5N3ioWGIA&hl=en&sa=X&ved=2ahUKEwjKn42LrfH3AhUjL30KHfOMApQQ6AF6BAgveAM#v=onepage&q=is%20anemone%20flower%20weedy%2Fcolonizer&f=false.</p> <ol style="list-style-type: none"> 8. Rudnicki, Alicia. "Propagating Perennial Anemones." <i>Home Guides / SF Gate</i>, 7 Oct. 2016, https://homeguides.sfgate.com/propagating-perennial-anemones-32825.html. 9. Stone, Robert, and Peter Anderson. <i>Propagating Plants</i>. DK Publishing, 2019. 10. Williams, Pressly. "How to Grow Anemone Flowers: A Quick Guide." <i>Team Flower Blog</i>, Team Flower Blog, 10 Feb. 2022, https://education.teamflower.org/learn/growing/ssl/anemone-growing-tips#growinganemones.
Other Sources Consulted	None
Protocol Author	Brielle Canares
Date Protocol Created or Updated	05/25/22