

**Plant Propagation Protocol for *Antennaria Stenophylla***


ESRM 412 – Native Plant Production

URL: <https://courses.washington.edu/esrm412/protocols/2026/ANST2>



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<b>TAXONOMY</b>	
<b>Plant Family</b>	
Scientific Name	Asteraceae <sup>1</sup>
Common Name	Aster <sup>1</sup>
<b>Species Scientific Name</b>	
Scientific Name	<i>Antennaria Stenophylla</i> (A. Gray) A. Gray <sup>1</sup>
Varieties	N/A
Sub-species	N/A
Cultivar	N/A
Common Synonym(s)	<i>Antennaria alpina</i> (L.) Gaertn. var. <i>stenophylla</i> A. Gray <i>Antennaria leucophaea</i> Piper <sup>1</sup>

Common Name(s)	Narrowleaf pussytoes <sup>1</sup>
Species Code (as per USDA Plants database)	ANST2
<b>GENERAL INFORMATION</b>	
Geographical range	 <p><a href="https://plants.sc.egov.usda.gov/plant-profile/ANST2">https://plants.sc.egov.usda.gov/plant-profile/ANST2</a></p>
Ecological distribution	Rocky slopes, flats, lithosols, dry grasslands, sagebrush deserts <sup>2</sup>
Climate and elevation range	1600-2200 ft, moderately dry areas <sup>3</sup>
Local habitat and abundance	East of the Cascades crest in Washington; Washington to Nevada, east to central Idaho. Common, often grows among sagebrush <sup>2</sup>
Plant strategy type / successional stage	Not available
Plant characteristics	A perennial forb/herb from a short woody base with clustered stems, 3-15 cm tall. Leaves are linear and silky pubescent, and flower heads several in a sub-capitate inflorescence. <sup>2</sup>
<b>PROPAGATION DETAILS: FROM SEED</b>	
Ecotype	N/A
Propagation Goal	Plant <sup>4</sup>
Propagation Method	Seed <sup>4</sup>
Product Type	Plugs, bareroot (field grown) <sup>4</sup>
Stock Type	Container or direct seed <sup>4</sup>
Time to Grow	Can be irregular and slow <sup>5</sup>
Target Specifications	Rosette plant <sup>4</sup>
Propagule Collection Instructions	Late summer, fall <sup>4</sup>

Propagule Processing/Propagule Characteristics	20,000 seeds/lbs <sup>6</sup>
Pre-Planting Propagule Treatments	If planting outside, plant in late fall. If planting inside, 30-60 days of cold stratification can improve germination. <sup>7</sup>
Growing Area Preparation / Annual Practices for Perennial Crops	8-12 seeds per cell in starter tray; press into soil without covering seeds. <sup>5</sup>
Establishment Phase Details	Keep seeds moist but not wet until germination. <sup>5</sup>
Length of Establishment Phase	40-72 days; germination can be irregular and slow. <sup>5</sup>
Active Growth Phase	Not available
Length of Active Growth Phase	Not available
Hardening Phase	Not available
Length of Hardening Phase	Not available
Harvesting, Storage and Shipping	Not available
Length of Storage	Not available
Guidelines for Outplanting / Performance on Typical Sites	Harden off seedlings before planting in well-drained soil. <sup>7</sup>
Other Comments	Information on this genus and species is very difficult to find as it is difficult to propagate. <sup>8</sup> While this plant naturally reproduces vegetatively, and propagation by division is possible, there is very little information on vegetative propagation. <sup>9</sup>
<b>INFORMATION SOURCES</b>	
References	<ol style="list-style-type: none"> <li>1. "USDA Plants Database." <i>Usda.gov</i>, 2026, plants.sc.egov.usda.gov/plant-profile/ANST2. Accessed 19 May 2026.</li> <li>2. "Antennaria Stenophylla - Burke Herbarium Image Collection." <i>Burkeherbarium.org</i>, 2023, burkeherbarium.org/imagecollection/taxon.php?-Taxon=Antennaria%20stenophylla. Accessed 19 May 2026.</li> <li>3. "Narrowleaf Pussytoes, Narrow-Leaf Pussytoes, Narrowleaved Pussytoes: Antennaria Stenophylla (Synonyms: Antennaria Alpina Var. Stenophylla, Antennaria Leucophaea)." <i>Halleyhosting.com</i>, 2026, science.halleyhosting.com/nature/gorge/sun/button/ant/steno.htm. Accessed 19 May 2026.</li> </ol>

	<ol style="list-style-type: none"> <li>4. Lesica et al. 2012. Manual of Montana Vascular Plants. BRIT Press. Fort Worth, TX</li> <li>5. "Planting Instructions for Antennaria Pussytoes." <i>Outsidepride.com</i>, 2026, <a href="http://www.outsidepride.com/resources/planting/antennaria-planting/?srsltid=-AfmBOooZK1AAAd4THnFjlqRVA64PCeq76WvC7dXxWzGgN6Ab2G2ogJh7H">www.outsidepride.com/resources/planting/antennaria-planting/?srsltid=-AfmBOooZK1AAAd4THnFjlqRVA64PCeq76WvC7dXxWzGgN6Ab2G2ogJh7H</a>. Accessed 18 May 2026.</li> <li>6. "Search Results." <i>Outsidepride.com</i>, 2026, <a href="http://www.outsidepride.com/search?s=annetaria">www.outsidepride.com/search?s=annetaria</a>. Accessed 12 May 2026.</li> <li>7. "Pussytoes (Antennaria Plantaginifolia) - Native Wildflower Seeds." <i>NativeFloraSeeds.org</i>, 2025, <a href="http://nativefloraseeds.org/products/pussytoes?srsltid=AfmBOorA6aWA9n-SBfIBSvb1c7SFvKhR3FotT0RkZGfteP1Awy1CwrEVU">nativefloraseeds.org/products/pussytoes?srsltid=AfmBOorA6aWA9n-SBfIBSvb1c7SFvKhR3FotT0RkZGfteP1Awy1CwrEVU</a>. Accessed 19 May 2026.</li> <li>8. Grower: Kathy Hutton; Plants of the Wild, Ticoa, WA (509) 284-2848.</li> <li>9. <a href="https://oregonflora.org/taxa/index.php?taxon=406">https://oregonflora.org/taxa/index.php?taxon=406</a></li> </ol>
Other Sources Consulted	<ol style="list-style-type: none"> <li>1. "Antennaria Stenophylla." <i>NatureServe Explorer</i>, 13 May 1988, 1. <a href="http://explorer.natureserve.org/Taxon/ELEMENT_GLOBAL.2.144020-/Antennaria_stenophylla">explorer.natureserve.org/Taxon/ELEMENT_GLOBAL.2.144020-/Antennaria_stenophylla</a>. Accessed 18 May 2026.</li> <li>2. "Taxa Info · INaturalist." <i>INaturalist</i>, <a href="http://www.inaturalist.org/taxa">www.inaturalist.org/taxa</a>. Accessed 18 May 2026.</li> </ol>
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