



Plant Propagation Protocol for [*Amelanchier pallida*]

ESRM 412 – Native Plant Production

Protocol URL: <http://courses.washington.edu/esrm412/protocols/AMPA2.pdf>

***Amelanchier pallida* (Greene)**

TAXONOMY	
Plant Family	
Scientific Name	Rosaceae ²
Common Name	Rose Family ²
Species Scientific Name	
Scientific Name	<i>Amelanchier pallida</i> Greene ²
Varieties	N/A ²
Sub-species	N/A ²
Cultivar	N/A ²
Common Synonym(s)	A. alnifolia. non Nutt. A. gracilis. A. siskiyouensis. A. subintegra. ¹
Common Name(s)	Pale service berry, shadbush ⁴
Species Code (as per USDA Plants database)	AMPA2 ²
GENERAL INFORMATION	
Geographical range	<p>Its geographical range extends along the West coast of North America, specifically in California, Oregon, Washington, Nevada, and Idaho (see maps for North America and Washington distribution).²</p> 

	
Ecological distribution	Generally found in moraines, rocky forests, river banks, and thickets. ⁵
Climate and elevation range	Found below 3300 ft elevation. ³
Local habitat and abundance	They thrive in sunny areas and moderately light and moist soils. ⁶
Plant strategy type / successional stage	Shade and low water tolerant, adaptable to various soil types and non-assertive. ^{3,4}
Plant characteristics	A deciduous shrub that can grow up to 6 meters tall with broad oval petals, long proximal-most pedicels, and tough, leathery leaves. ⁵
PROPAGATION DETAILS	
Ecotype	N/A
Propagation Goal	Seeds- Best harvested when the seed has matured, but the coating has not hardened yet. ¹
Propagation Method	Seed ⁶
Product Type	Container (plug)- Grow seedlings in individual pots until at least 20 cm tall. ¹
Stock Type	Pot ¹
Time to Grow	2 years ¹
Target Specifications	Seedlings should be 20 cm or taller before moving them from their individual pots to an outdoor position. ¹
Propagule Collection Instructions	Seed is best harvest in early fall before the seed coat has fully hardened. ¹
Propagule Processing/Propagule Characteristics	Seeds can be stored for 3-4 months. ⁴
Pre-Planting Propagule Treatments	The seeds should be cleaned of any surrounding moss, mixed with damp peat moss, and stored in cool temperatures for 3-4 months. ⁴
Growing Area Preparation / Annual Practices for Perennial Crops	Plants grow best in a moist, clay like soil in individual pots. ¹
Establishment Phase Details	Seed will germinate much faster if stratified in warm conditions and sown before the seed coat has hardened. ¹
Length of Establishment Phase	3 months or 18 months (see above) ¹

Active Growth Phase	A mature growth to about 4 meters takes about 2 years. ¹
Length of Active Growth Phase	6 months ³
Hardening Phase	N/A
Length of Hardening Phase	N/A
Harvesting, Storage and Shipping (of seedlings)	Seedlings should be grown in pots in sheltered outdoor beds. ¹
Length of Storage	2 years ¹
Guidelines for Outplanting / Performance on Typical Sites	Seedlings must have been growing for at least 2 years to establish roots before outplanting. ¹
Other Comments	N/A
INFORMATION SOURCES	
References	<p>"Amelanchier Pallida- Greene." <i>Plants for a Future</i>. N.p., n.d. Web. 21 Apr. 2016.¹</p> <p>"Amelanchier Pallida Greene." <i>United States Department of Agriculture</i>. USDA, n.d. Web. 21 Apr. 2016.²</p> <p>"Calflora: Amelanchier Pallida." <i>Calflora: Amelanchier Pallida</i>. N.p., n.d. Web. 21 Apr. 2016.³</p> <p>Everett, Thomas H. <i>The New York Botanical Garden Illustrated Encyclopedia of Horticulture</i>. New York: Garland, 1980. Print.⁴</p> <p>Krüssmann, Gerd. <i>Manual of Cultivated Broad-leaved Trees and Shrubs</i>. Vol. I. Beaverton, OR: Timber in Cooperation with the American Horticultural Society, 1984. Print.⁵</p> <p>Osborn, A. <i>Shrubs and Trees for the Garden</i>. London: Ward, Lock, &, 1933. Print.⁶</p>
Other Sources Consulted	<p>Hickman, James C., and Willis Linn Jepson. <i>The Jepson Manual: Higher Plants of California</i>. Berkeley: U of California, 1993. Print.</p> <p>Hottes, Alfred C. <i>The Book of Shrubs</i>. New York: A.T. De La Mare, 1928. Print.</p>

	<p>Jepson, Willis Linn. <i>A Manual of the Flowering Plants of California</i>. Berkeley, CA: Associated Students Store, U of California, 1925. Print.</p> <p>McMinn, Howard. <i>An Illustrated Manual of California Shrubs</i>. Berkeley: U of California, 1951. Print.</p> <p>Raven, Peter H. <i>Native Shrubs of Southern California</i>. Berkeley: U of California, 1982. Print.</p> <p>Sawyer, John O., Todd Keeler-Wolf, and Julie Evens. <i>A Manual of California Vegetation</i>. Sacramento, CA: California Native Plant Society, 2009. Print.</p> <p>Stuart, John David., and John O. Sawyer. <i>Trees and Shrubs of California</i>. Berkeley: U of California, 2001. Print.</p>
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