

Plant Propagation Protocol for *Clematis hirsutissima*

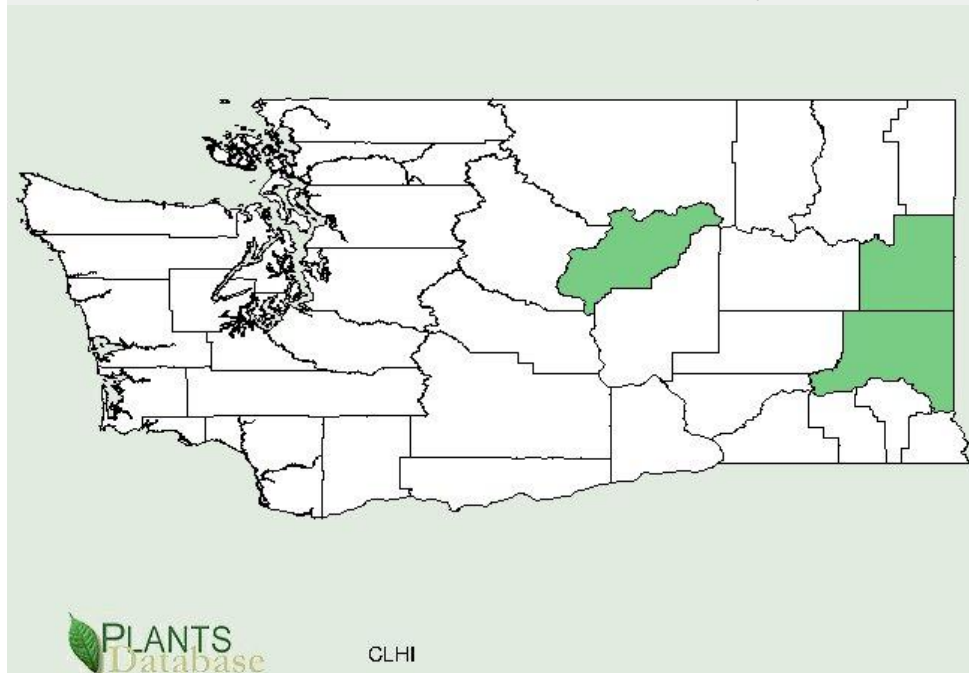
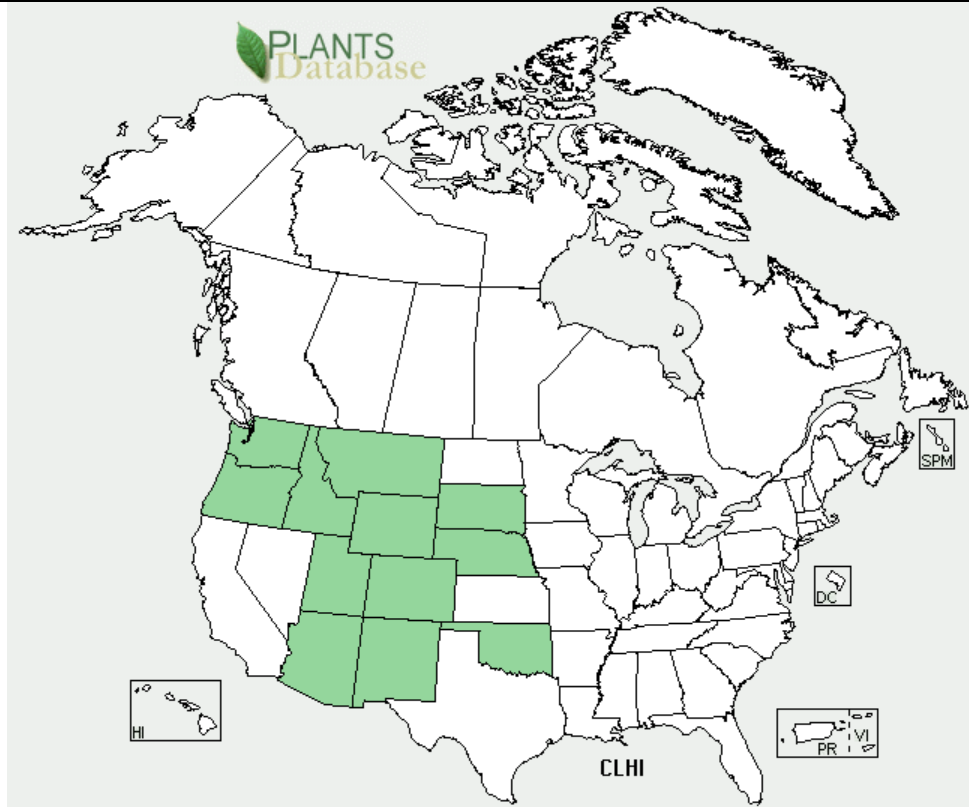
ESRM 412 – Native Plant Production

Protocol URL: <https://courses.washington.edu/esrm412/protocols/CLHI.pdf>

TAXONOMY	
Plant Family	
Scientific Name	Ranunculaceae
Common Name	Buttercup
Species Scientific Name	
Scientific Name	<i>Clematis hirsutissima</i> Pursh.
Varieties	Var. <i>hirsutissima</i> Var. <i>arizonica</i> Var. <i>scottii</i>
Sub-species	N/A
Cultivar	N/A
Common Synonym(s)	<i>C. douglasii</i> Hooker <i>C. wyethii</i> Nuttall <i>C. douglasii</i> f. <i>pulsatilloides</i> <i>C. douglasii</i> subsp. <i>normalia</i> Kuntze <i>C. douglasii</i> subsp. <i>wyethii</i> Kuntze <i>C. douglasii</i> subsp. <i>jonesii</i> Kuntze <i>C. douglasii</i> var. <i>rosea</i> T. D. A. Cockerell <i>Anemone patens</i> var. <i>hirsutissima</i> Hitchcock <i>Pulsatilla hirsutissima</i> Britton <i>Anemone hirsutissima</i> MacMillan <i>C. douglasii</i> var. <i>bigelovii</i> Jones <i>C. bakeri</i> Greene <i>C. jonesii</i> Rydberg <i>C. eriophora</i> Rydb. <i>Viorna hirsutissima</i> Heller <i>V. douglasii</i> Cockerell <i>V. bakeri</i> Rydberg <i>V. jonesii</i> Rydberg <i>V. eriophora</i> Rydberg <i>V. wyethii</i> Rydb. <i>Pulsatilla patens</i> subsp. <i>hirsutissima</i> Zamels <i>Clematis scottii</i> var. <i>eriophora</i> Tidestrom (Johnson 2001)
Common Name(s)	Hairy Clematis, Sugarbowls (Baskin & Baskin 2002; Nold 2008)
Species Code (as per USDA Plants database)	CLHI

GENERAL INFORMATION

Geographical distribution across North America and Washington State as per USDA plants database



Ecological distribution

N/A

Climate and elevation range

N/A

Local habitat and

C. hirsutissima can be found on mountain slopes, open pine forests, and

abundance	moist or dry meadows with sagebrush. They prefer humid north-facing slopes and dry, gravelly ground to provide shade for the soil (Nold 2008; Johnson 2001)
Plant strategy type / successional stage	Stress-tolerator (Nold 2008)
Plant characteristics	<i>C. hirsutissima</i> is a hairy forb that grows to around 15-60cm with divided linear leaves on erect stems. The terminal, solitary flowers are purple and typically downward-facing. Peduncles are densely hairy and 8-15cm long (Nold 2008; Johnson 2001).
PROPAGATION DETAILS	
Ecotype	N/A
Propagation Goal	Plants (Baskin & Baskin 2002)
Propagation Method	Seed
Product Type	Container (plug) (Baskin & Baskin 2002)
Stock Type	N/A
Time to Grow	N/A
Target Specifications	N/A
Propagule Collection Instructions	N/A
Propagule Processing/Propagule Characteristics	N/A
Pre-Planting Propagule Treatments	Seeds of <i>C. hirsutissima</i> display morpho-physiological dormancy and require a cold-moist stratification for 112 days (Baskin & Baskin 2002).
Growing Area Preparation / Annual Practices for Perennial Crops	N/A
Establishment Phase Details	N/A
Length of Establishment Phase	N/A
Active Growth Phase	N/A
Length of Active Growth Phase	N/A
Hardening Phase	N/A

Length of Hardening Phase	N/A
Harvesting, Storage and Shipping	N/A
Length of Storage	N/A
Guidelines for Outplanting / Performance on Typical Sites	N/A
Other Comments	
INFORMATION SOURCES	
References	<p>Baskin, C. C., & J. M. Baskin. 2002. Propagation protocol for production of container <i>Clematis hirsutissima</i> Pursh plants; University of Kentucky, Lexington, Kentucky. In: Native Plant Network. <http://www.nativeplantnetwork.org/network/ViewProtocols.aspx?ProtocolID=1472> Downloaded on 19 May 201.</p> <p>Johnson, M. 2001. <i>Clematis hirsutissima</i> Pursh. Pages 566-568 in Sundström, B., Toomey, M., R. Eustice, editors. The Genus <i>Clematis</i>.</p> <p>Nold, R. 2008. Rock Garden Plants; <i>Clematis</i>. Pages 146-147. High and Dry: Gardening with Cold-Hardy Dryland Plants. Timber Press, Portland, Oregon, USA.</p>
Other Sources Consulted	<p>Arbury, J., Bird, R., Honour, M., Innes, C., & M. Salmon. 1997. <i>Clematis</i>. Pages 116-117 in Byam, M., & G. Croton, editors. The Complete Book of Plant Propagation. Taunton, Newtown, Connecticut, USA.</p> <p>Burke Museum of Natural History and Culture. 2014. <i>Clematis hirsutissima</i>. < http://biology.burke.washington.edu/herbarium/imagecollection.php> Downloaded 19 May 2014.</p> <p>Evison, R. J. 1998. The Gardener's Guide to Growing <i>Clematis</i>. Timber Press, Portland, Oregon, USA. Bränningestrandsvägen, Södertälje, Sweden.</p> <p>Floras of North America. 2014. <i>Clematis hirsutissima</i>. <http://www.efloras.org/florataxon.aspx?flora_id=1&taxon_id=233500394> Downloaded on 19 May 2014.</p> <p>Integrated Taxonomic Information System. 2014. <i>Clematis hirsutissima</i>. <http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=18699> Downloaded 19 May 2014.</p> <p>Manual of Practical Techniques. DK Publishing, New York, New York,</p>

	USA. Markham, E. 1935. <i>C. Douglasii</i> . Pages 79-80. <i>Clematis</i> . Charles Scribner's Sons, New York, New York, USA. Toogood, A. 1999. <i>Clematis</i> . Page 123 in Evans, A., Rogers, R., & L. Abbott, editors. <i>Plant Propagation; The Fully Illustrated Plant-by-Plant</i>
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