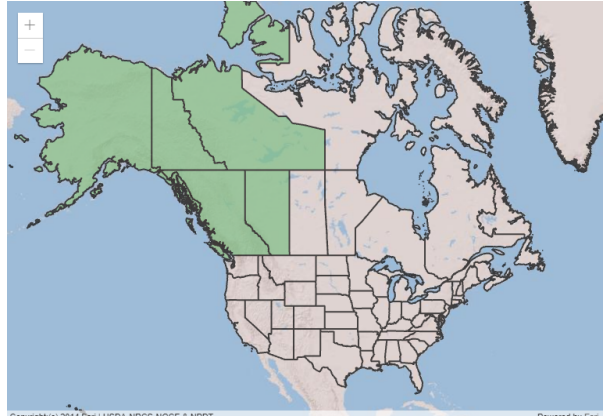


## Plant Propagation Protocol for *Aconitum delphiniifolium*

ESRM 412 - Native Plant Production

URL: <https://courses.washington.edu/esrm412/protocols/> [2022] [ACDE2.pdf]

TAXONOMY	
<b>Plant Family</b>	
Scientific Name	<i>Ranunculaceae</i>
Common Name	Buttercup Family
<b>Species Scientific Name</b>	
Scientific Name	<i>Aconitum delphiniifolium</i> DC.
Varieties	No information provided
Subspecies	Aconitum
Cultivar	No information provided
Common synonyms	No information provided
Common name(s)	Larkspurleaf monkshood
Species Code	ACDE2

General Information	
Geographical range	
Ecological distribution	Meadows, along creeks, thickets, woods, rocky slopes, and alpine tundra.

Climate and elevation range	Elevation: 0-1700 meters
Local habitat and abundance	Does not grow in the lower 48. Grows in Alaska, and the areas of Western Canada such as: British Columbia, Alberta, Yukon, and Northwest Territories.
Plant strategy type / successional stage	Perennial herb
Plant characteristics	<p>Roots tuberous 10-15 by 5 mm, with 1 contiguous daughter tuber. Stem erect, slender, 1-10 dm. Cauline leaves: blade 3-divided to base, 1-13 cm wide, occasionally with up to 2-4 mm of leaf tissue between deepest sinus and base of blade, 2 lateral segments each deeply 2 parted, margins cleft into narrow, linear oblong lobes.</p> <p>Inflorescences open racemes or panicles. Flowers blue, purple, occasionally greenish purple, yellow or white. 20-40 mm from tips of pendant sepals to top of hood, pendant sepals 9-20 mm. Hood low, crescent shaped hemispheric to conic hemispheric, 10-24 mm high receptacle to top of hood, 13-30 mm broad from receptacle to beak apex.</p>

<b>Propagation protocol for production of <i>Aconitum</i> by Jennifer Butler and Christin Frieswyk.</b>	
Ecotype	Colorado, Green Mountain (98-144s)
Propagation Goal	Seeds
Propagation Method	Seeds
Product Type	Propagules (Seeds, cuttings, poles, etc.)
Stock Type	No information provided
Time to Grow	0
Target Specifications	No information provided
Propagule Collection Instructions	Seed cleaning technique: Collected clean.
Propagule Processing/Propagule	No information provided

Characteristics	
Pre-Planting Propagule Treatments	No information provided
Growing Area Preparation / Annual Practices for Perennial Crops	<p>Propagation environment: Greenhouse, 65 to 70 degrees F in the day, 55 degrees F at night. Propagates under tend on heat pad (set to 70 degrees F) with misters set 8 am to 8 pm, with 10 sec/15 min watering intervals. One week after germination, seedlings were moved to the mister area without a tent.</p> <p>Germination media: Fafard Germination Mix (superfine).</p> <p>Growing media: Fafard Growing Mix 2.</p>
Establishment Phase Details	<p>Sowing Date: 12/10/98</p> <p>Sowing/planting technique: Manually sowed in 4x8. Lightly covered</p> <p>Time to germination: No germination</p>
Length of Establishment Phase	No information provided
Active Growth Phase	No information provided
Length of Active Growth Phase	No information provided
Hardening Phase	No information provided
Length of Hardening Phase	No information provided
Harvesting. Storage, and Shipping	Seed storage condition: Seed stored in greenhouse
Length of Storage	No information provided
Guidelines for Outplanting / Performances on Typical Sites	No information provided
Other comments	Cold treatment being attempted

Information Sources	
References (full citations)	See below
Other Sources Consulted (but that contained no pertinent information) (full citations)	See below

Protocol Author	Dalton Harper
Date Protocol Created or Uploaded	05/24/2022

## Works Cited

- Aconitum delphiniifolium*. *Aconitum delphiniifolium* - Database of Vascular Plants of Canada (VASCAN). (n.d.). Retrieved May 25, 2022, from <https://data.canadensys.net/vascan/name/Aconitum%20delphiniifolium>
- Aconitum delphiniifolium*. *Aconitum delphiniifolium* in flora of North America @ efloras.org. (n.d.). Retrieved May 25, 2022, from [http://www.efloras.org/florataxon.aspx?flora\\_id=1&taxon\\_id=233500017](http://www.efloras.org/florataxon.aspx?flora_id=1&taxon_id=233500017)
- Aconitum delphiniifolium*. *Aconitum delphiniifolium* - Natural History of Southeast Alaska. (n.d.). Retrieved May 25, 2022, from [https://wiki.seaknature.org/Aconitum\\_delphiniifolium](https://wiki.seaknature.org/Aconitum_delphiniifolium)
- Aconitum delphiniifolium* DC. USDA plants database. (n.d.). Retrieved May 25, 2022, from <https://plants.usda.gov/home/plantProfile?symbol=ACDE2>
- Aconitum delphiniifolium*: *Larkspurleaf monkshood*. favicon. (n.d.). Retrieved May 25, 2022, from <https://wildflowersearch.org/search?&tsn=821196>
- Distinguishing between two species of monkshood (Aconitum sp..)*. (n.d.). Retrieved May 26, 2022, from [https://web.corral.tacc.utexas.edu/UAF/etc/Aconitum\\_KatieK.pdf](https://web.corral.tacc.utexas.edu/UAF/etc/Aconitum_KatieK.pdf)
- Herbaria, C. of P. N. (n.d.). *Aconitum delphiniifolium*. Retrieved May 25, 2022, from <https://www.pnwherbaria.org/m/datasets/vascular-plants/pages/ranunculaceae/aconitum-delphiniifolium.htm>
- Mosquin, D. (2009, April 8). *Aconitum delphiniifolium*. Botany Photo of the Day. Retrieved May 25, 2022, from [https://botanyphoto.botanicalgarden.ubc.ca/2009/04/aconitum\\_delphiniifolium/](https://botanyphoto.botanicalgarden.ubc.ca/2009/04/aconitum_delphiniifolium/)
- Plant database*. Lady Bird Johnson Wildflower Center - The University of Texas at Austin. (n.d.). Retrieved May 25, 2022, from [https://www.wildflower.org/plants/result.php?id\\_plant=ACDE2](https://www.wildflower.org/plants/result.php?id_plant=ACDE2)
- Ranunculaceae (Aconitum)*. RNGR. (n.d.). Retrieved May 25, 2022, from <https://rngr.net/npn/propagation/protocols/ranunculaceae-aconitum-769>