

Plant Propagation Protocol For *Aruncus dioicus*

ESRM 412 – Native Plant Production
Spring 2008



Taxonomy

Family names:

Family *Rosaceae* (Rose family)

Scientific names:

Aruncus dioicus (Walter) Fernald. var. *acuminatus* (Rydb.) Rydb. ex Hara
(Goatsbeard/Bride's feathers)

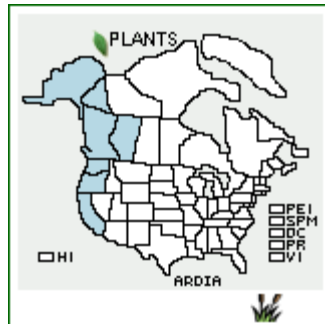
Common synonyms:

Aruncus sylvester Kostel

USDA code:

ARDI8

General Information



Range:

Aruncus dioicus variety *acuminatus* occurs along the West Coast of North America from Alaska to Northern California through Oregon and Washington. In Washington it occurs from the Cascade range to the coast.

Climate/Elevation:

Low to mid elevation in wooded, mountainous areas between 0 – 5000 feet. (Burke Museum of Natural History and Culture)

Habitat:

Moist environments in wooded areas commonly near streambanks and other water sources

Propagation Details

Propagation goal:

Plants

Propagation method:

Seeds or division from vegetation

Product type:

Container (Plug)

Time to grow:

Seeds will begin to germinate in 2 to 3 weeks. 80% germination will be achieved by 6 weeks. Outplanting after 6 to 8 weeks or in early spring. (Mahr)

Target Specifications:

Firm root plug, multiple leaves

Propagule Collection/Processing:

In late summer plants flower and the females produce seeds which are tiny brown capsules that must be separated from the dry flower. Seeds can be cold stored. (Ross, Moore. 2004)

Pre-Planting Treatments:

Cold stored seeds must be rinsed water for 24 hours and then fall-sown in well draining upland soil. These can be stored outside until spring when it can be brought into a greenhouse for germination. (Ross, Moore. 2004)

Growing Area Preparation:

Germination can occur in small tray containers. Seedlings should be moved to larger containers or directly outplanted. Plant will thrive in most soil types as long as it is moist. (Ross, Moore. 2004)

Length of Establishment Phase:

80% germination will be achieved by 6 weeks. (Ross, Moore. 2004)

Active Growth Phase:

From seed till plant growth stops is around 5 ½ months. (Ross, Moore. 2004)

Hardening Phase:

Move trays to greenhouse in June and harden for 1 to 2 months. (Ross, Moore. 2004)

Harvesting, Storage and Shipping:

The seedlings are fairly hardy and can be harvested and shipped in their containers so as to not harm the roots. Plants can be stored outside in spring and summer. In fall or winter cut stems back just above the ground and surround the container in mulch. (Mahr)

Guidelines for Outplanting:

Plants must be outplanted in a moist, preferably rich soil, however it will do ok in most soils. After the plant is established transplanting can be harmful. Space plants 2 to 4 feet apart. Mature plants will reach between 3 to 4 feet in height and a width of 2 to 3 feet. (Mahr)

Other comments:

There are no collection restrictions on this plant. Information is limited for propagating on your own, however several nurseries sell seeds and plants.

Information Sources

Sources cited:

1. Burke Museum of Natural History and Culture. "Aruncus dioicus Sylvan goatsbeard, bride's feathers". 2006. Accessed 15 April 2008.
<http://biology.burke.washington.edu/herbarium/imagecollection.php?Genus=Aruncus&Species=dioicus>
2. Mahr, Susan. "Goatsbeard". Accessed 15 April 2008.
<http://www.hort.wisc.edu/mastergardener/Features/flowers/aruncus/aruncus.htm>
3. Ross, Donald; Moore, Nancy. 2004. Propagation protocol for production of container Aruncus dioicus (Walt.) Fern. var. acuminatus (Rydb.) Rydb. ex Hara plants; Alaska Department of Natural Resources Plant Materials Center, Palmer, Alaska. In: Native Plant Network. (accessed 15 April 2008).
http://www.nativeplantnetwork.org/network/view.asp?protocol_id=2870
4. United States Department of Agriculture. "Aruncus dioicus (Walter) Fernald bride's feathers". Accessed 15 April 2008.
<http://www.plants.usda.gov/java/profile?symbol=ARDI8>

Sources consulted:

- Bluestone Perennials. "Aruncus Dioicus : Goatsbeard". 2008. Accessed 15 April 2008.
<http://www.bluestoneperennials.com/b/bp/ARDIS.html>
- Calflora: Information on California plants for education, research and conservation. [web application]. 2008. Berkeley, California: The Calflora Database [a non-profit organization]. Available: <http://www.calflora.org/>. (Accessed: Apr 16, 2008)
- Central Washington Native Plants Gallery. "Aruncus dioicus (sylvester) Goatsbeard". Accessed 15 April 2008. <http://www.cwnp.org/photopgs/adoc/ardioicus.html>
- Gardenguides.com. "Aruncus (Aruncus Dioicus) - Garden Basics - Flower – Perennial". 2008. Accessed 15 April 2008.
<http://www.gardenguides.com/plants/info/flowers/perennials/aruncus.asp>
- Grow Native. "Aruncus dioicus". 2008. Accessed 15 April 2008.
http://www.grownative.org/index.cfm?fuseaction=plants.plantDetail&plant_id=29
- Missouriplants.com. "Aruncus dioicus (Walt.) Fern". 2007. Accessed 15 April 2008.
http://www.missouriplants.com/Whitealt/Aruncus_dioicus_page.html
- University of Texas at Austin. "Aruncus dioicus (Walt.) Fern". 2007. Accessed 15 April 2008. http://www.wildflower.org/plants/result.php?id_plant=ARDI8

Original Protocol compiled by: Marlo Mytty, May 15, 2003.

http://depts.washington.edu/propplnt/Plants/Aruncus_dioicus.htm

Updated by: Christopher White, April 15, 2008.