

Protocol Information

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Family Scientific Name: **Asteraceae**

Family Common Name: **Sunflower Family**

Scientific Name: *Chaenactis douglasii* (Hook.) H. & A.

Common Name: **Douglas' dustymaiden**

Species Code: **CHDO**

Ecotype: **Intermountain West and Rocky Mountains**

General Distribution: **Throughout western North America at elevations from 1,000- 3,000 m (3,000- 10,000 ft) from British Columbia to Arizona, ranging as far east as South Dakota. Variety douglasii is known in and east of the Sierra and Cascade ranges extending to the western edge of northern Great Plains.**

Propagation Goal: **Plants**

Propagation Method: **Seed**

Product Type: **Container (plug)**

Propagule Collection: **Seed can be collected by hand, combine, flailvac, or vacuum-type harvester. We use a “jet combine” to harvest seed production fields. This ensures that only ripe seed is harvested and allows for multiple harvests during the season. Seed readily disarticulates from flower heads when ripe.**

Propagule Processing: **Seed is air dried prior to processing. Seed can be removed from stems using a hammer mill with a 0.6 cm (0.25 in) screen; however this may not be necessary if seed is collected carefully with a vacuum harvester. Pappus can be removed from the achenes with the use of a debearder or brush machine. Seed is then cleaned with a multi-deck airstream cleaner followed by an indent cleaner. There are approximately 450,000 seeds/lb.**

Pre-Planting Treatments: **We tested cold/moist stratification at 36° F for 0, 30, 60 and 90 days. The highest germination was obtained with the 90 and 60 day stratification periods (30.5 and 27.0 %). These did not significantly differ from one another. The 90 and 60 day treatments yielded significantly greater germination rates than the other two treatments. The 30 day stratification treatment (14.0%) likewise yielded better germination than the non-stratified control (0.5%).**

Citation:

Tilley, Derek 2013. Propagation protocol for production of container *Chaenactis douglasii* (Hook.) H. & A. plants; USDA NRCS - Aberdeen Plant Materials Center, Aberdeen, Idaho. In: Native Plant Network. URL: <http://www.nativeplantnetwork.org> (accessed 8 April 2013). Moscow (ID): University of Idaho, College of Natural Resources, Forest Research Nursery.