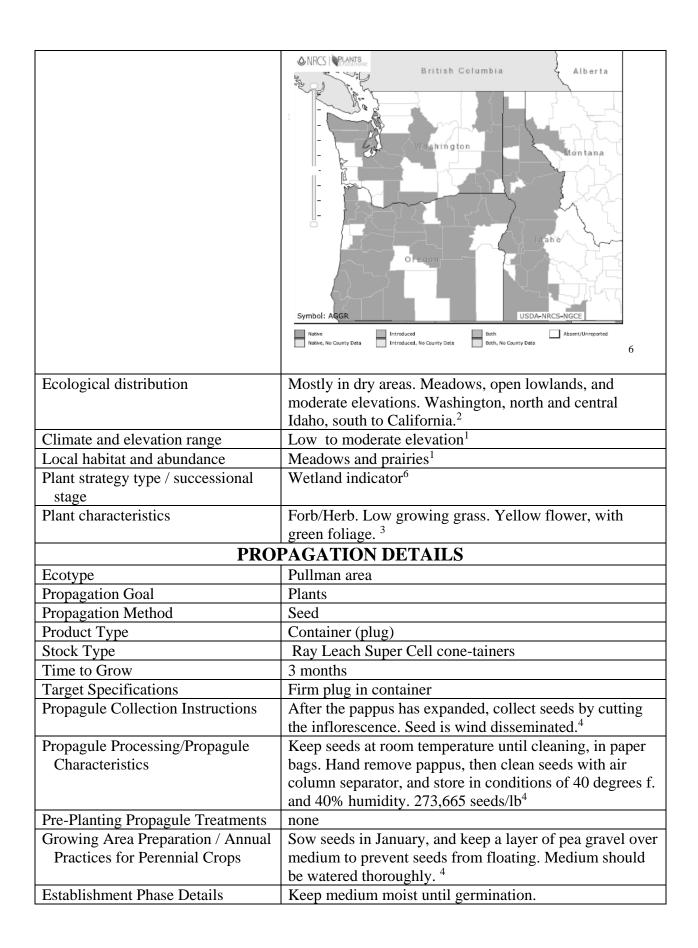
Plant Propagation Protocol for Agoseris grandiflora ESRM 412 – Native Plant Production

 $Protocol\ URL:\ https://courses.washington.edu/esrm412/protocols/AGGR.pdf$

TAXONOMY		
Plant Family		
Scientific Name	Asteraceae	
Common Name	Sunflower family	
Species Scientific Name	,	
Scientific Name	Agoseris grandiflora (nutt.) Greene.	
Varieties	var. grandiflora	
	var. leptophylla	
Sub-species		
Cultivar		
Common Synonym(s)	Troximon graniflorum nutt.	
	Agoseris plebeja (Greene) Greene	
	Agoseris laciniata (Nutt.) Greene	
	Agoseris grandiflora (Nutt.) Greene	
	var. leptophylla G.I. Baird	
Common Name(s)	Bigflower agoseris, grassland agoseris, goat-chicory,	
(0)	grand mountain dandelion, large-flower false-dandelion,	
	mountain dandelion, shortbeak agoserisor, California	
	dandilion	
Species Code (as per USDA Plants	AGGR	
database)		
GENERAL INFORMATION		
Geographical range	British Columbia to California: Nevada, Utah, Idaho, and	
	Montana NRCS NRAMES Symbol: AGGR USDA-NRCS-NGCE	
	Native, No County Data Introduced Both Absent/Unreported Both, No County Data	



Length of Establishment Phase	2 weeks
Active Growth Phase	After germination, plants will develop rapidly. Keep
	watered every other day and fertilized once a week with
	fertilizer containing micronutrients. ⁴
Length of Active Growth Phase	60 days
Hardening Phase	Move plants to a cold frame in late March-early April
Length of Hardening Phase	2-4 weeks
Harvesting, Storage and Shipping	
Length of Storage	
Guidelines for Outplanting /	
Performance on Typical Sites	
Other Comments	Species can be sown either in spring or fall. Emergence
	from fall seedlings is much higher, but spring seedlings
	will still develop well ⁶
INFORMATION SOURCES	
References	Citation:
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	University of Washington Press. 1973.
	2 MacKinnon, A., and Jim Pojar. Plants of the Pacific
	Northwest Coast. Vancouver, British Columbia: Partners,
	2016. Print.
	3 Munz, Philip A. A Flora of Southern California.
	Berkeley, CA: U of California, 1974. N. pag. Print.
	4 "Native Plant Network — Reforestation, Nurseries and
	Genetics Resources." Reforestation, Nurseries and
	Genetics Resources. N.p., n.d. Web. 20 May 2017.
	5 Plants Profile for Agoseris Grandiflora (bigflower
	Agoseris). N.p., n.d. Web. 20 May 2017.
	CHAD I MD CO 2001 THE DV 1977 TO
	6 USDA, NRCS. 2001. The PLANTS Database, version
	3.1. (http://plants.usda.gov) National Plant Data Center,
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Other Courses Consults J	Lyong C. D. Tugge Churcha and Element & Virginia
Other Sources Consulted	Lyons, C. P. Trees, Shrubs and Flowers to Know in
	British Columbia and Washington. Edmonton: Lone Pine
	Pub., 1995. Print.

	Rose, Robin, Caryn E. C. Chachulski, and Diane L. Haase. <i>Propagation of Pacific Northwest Native Plants</i> . Corvallis: Oregon State UP, 1998. Print.
	Young, James Albert, and Cheryl G. Young. <i>Collecting</i> , <i>Processing and Germinating Seeds of Wildland Plants</i> . Portland, OR: Timber, 1995. Print.
	Young, J. A., and C. G. Young. Seeds of Woody Plants in North America Revised and Enlarged Edition. Portland, Or.: Dioscorides, 1992. Print.
Protocol Author	Robert Franco, updated by Tara Van Corbach
Date Protocol Created or Updated	05/27/06, updated 05/23/2017

Plant Data Sheet

Species (common name, Latin name) Bigflower agoseris, Agoseris grandiflora



Range

Washington, north and central Idaho, Oregon and California

Climate, elevation Low elevation

Local occurrence Pullman area

Habitat preferences

Open places such as meadows and praries.

Plant strategy type/successional stage (stress-tolerator, competitor, weedy/colonizer, seral, late successional)

Forb/herb. National Wetland Indicator. Low-growing grass.

Associated species

May be collected as: (seed, layered, divisions, etc.)

Seeds are collected by cutting the inflorescence after the pappus has expanded. Seed is wind disseminated and shatters soon after ripening.

Seed germination (needs dormancy breaking?)

Wind disseminated. Usually breaks once ripe. No cold stratification required.

Seed life and Recommended Seed Storage Conditions

Seed is stored in paper bags at room temperature until cleaned. For small amounts, the pappus can be removed by hand. With larger amounts, a hammermill is effective for removing the pappus. Seed is then cleaned with an air column separator or air screen equipment. Cleaned seed is stored in controlled conditions at 40 degrees F. and 40% relative humidity.

Propagation recommendations (plant seeds, vegetative parts, cuttings, etc.)
Seeds are sown in January.

Soil or medium requirements (inoculum necessary?)

Adapted to fine, medium and course textured soils. Anaerobic tolerance is low. pH between 5.8 and 7.3. Medium moisture use. Minimum 8 inch root depth.

Installation form (form, potential for successful outcomes, cost) 273,665 seeds per pound. Moderate spread rate. Medium seed vigor.

Care requirements after installed (water weekly, water once etc.)
Plants should be watered deeply every other day.

Normal rate of growth or spread; lifespan

Plants develop quickly after germination and the active growth phase is around 60 days.

Sources cited

- USDA NRCS: http://nativeplants.for.uidaho.edu/network/view.asp?protocol_id=2151
- USDA NRCS, VegSpec: http://plants.usda.gov/java/nameSearch? keywordquery=agoseris+grandiflora&mode=sciname

Data compiled by Robert Franco 5/27/06