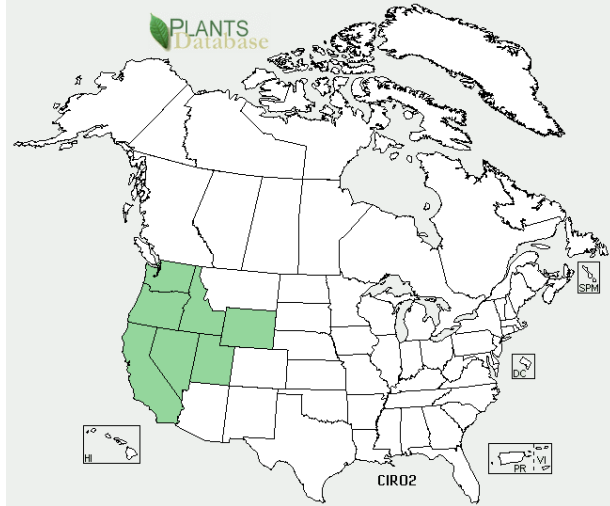


Plant Propagation Protocol for *Cistanthe rosea*

ESRM 412 – Native Plant Production

Protocol URL: <https://courses.washington.edu/esrm412/protocols/CIRO2.pdf>

Distribution in North America



Distribution in Washington State



Source: USDA PLANTS Database¹

TAXONOMY	
Plant Family	
Scientific Name	Portulacaceae
Common Name	Purslane
Species Scientific Name	
Scientific Name	<i>Cistanthe rosea</i> (S. Watson) Hershkovitz
Varieties	
Sub-species	
Cultivar	
Common Synonym(s)	<i>Calyptridium roseum</i> (S. Watson)
Common Name(s)	Rosy pussypaws
Species Code (as per USDA Plants database)	CIRO2
GENERAL INFORMATION	
Geographical range	In North America: CA, ID, NV, OR, UT, WA, WY In WA State: Benton County See USDA PLANT Database maps above
Ecological distribution	Grows well in gravelly soils, coniferous forest, and sagebrush scrub. ²
Climate and elevation range	Elevation: 1500–3750 m. ² 10-35 inches of rain per year, with a wet season from 2-7 months. Temperature range: 12-82°F. ⁵
Local habitat and abundance	In WA, grows in dry shrub steppe. Occurs with other

	annuals, but not in areas with a well-developed cryptogram layer. Associated species include <i>Artemisia tridentata</i> , <i>Bromus tectorum</i> , <i>Poa secunda</i> , <i>Cryptantha circumscissa</i> , <i>Holosteum umbellatum</i> , <i>Draba verna</i> , and <i>Gillia leptomeria</i> . ³
Plant strategy type / successional stage	Relatively early succession; able to grow in relatively low quality soil, able to endure harsh conditions. ⁵
Plant characteristics	Taprooted annual forb with two or more spreading to ascending stems 2-10 cm long. Leaves fleshy and oblanceolate. Stem leaves alternate. ³
PROPAGATION DETAILS	
Ecotype	
Propagation Goal	Plants
Propagation Method	Seed
Product Type	Container (plug) ⁶
Stock Type	
Time to Grow	About 6 months. ⁷
Target Specifications	3 cm – 3 m tall. ⁴ Firm stems desired. ⁵
Propagule Collection Instructions	
Propagule Processing/Propagule Characteristics	Seeds should not be kept longer than 8 months in warm conditions. ⁷
Pre-Planting Propagule Treatments	Treating seeds in an NaOCl solution reduces dormancy by about 50%.
Growing Area Preparation / Annual Practices for Perennial Crops	Gravelly soil. ⁴ Water deeply every 4-5 weeks. Containers should not be smaller than 10 cubic centimeters . ⁷
Establishment Phase Details	
Length of Establishment Phase	
Active Growth Phase	
Length of Active Growth Phase	About 1 month. ⁴
Hardening Phase	
Length of Hardening Phase	
Harvesting, Storage and Shipping	
Length of Storage	Seedlings can be directly outplanted. ⁵
Guidelines for Outplanting / Performance on Typical Sites	Flowers May-August. ⁴
Other Comments	
INFORMATION SOURCES	
References	See below
Protocol Author	Katherine Hartke
Date Protocol Created	05/21/2014

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