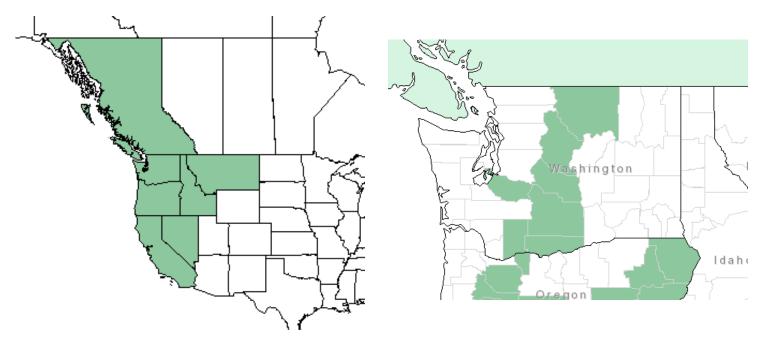
## **Plant Propagation Protocol for CIUMU**

ESRM 412 – Native Plant Production

Protocol URL: https://courses.washington.edu/esrm412/protocols/CIUMU.pdf

## North American Distribution<sup>1</sup>

Washington Distribution<sup>1</sup>



TAXONOMY		
Plant Family		
Scientific Name	Portulacaceae	
Common Name	Purslane	
Species Scientific Name		
Scientific Name	Cistanthe umbellata (Torr.) Hershkovitz	
Varieties	var. umbellata	
Sub-species		
Cultivar		
Common Synonym(s)	Calyptridium umbellatum (Torr.) Greene	
	Calyptridium umbellatum (Torr.) Greene var.	
	umbellatum	
	Spraguea umbellata Torr.	
Common Name(s)	Mt. Hood pussypaws	
Species Code (as per USDA Plants	CIUMU	
database)		
GENERAL INFORMATION		
Geographical range	C. umbellata is native in British Columbia, all the way	
	South to California, as well as East towards Montana,	

	4 N 1-1
	and Nevada <sup>1</sup> .
	In Washington, it occurs throughout the Cascade
	Mountains <sup>1</sup> .
	Also see mons chorre
Endaded distribution	Also see maps above.
Ecological distribution	Mt. Hood pussypaws thrives in ponderosa pine forests,
Climate and elevation range	in the subalpine sandy flats, and alpines <sup>2</sup> .  High elevations <sup>2</sup> , 1500 – 4300 m <sup>5</sup> .
Local habitat and abundance	111gh elevations, 1300 – 4300 m.
Plant strategy type / successional	
stage	
Plant characteristics	C. umbellata is a perennial herb plant, it grows in a
Train characteristics	thick crown, with multiple branches <sup>2</sup> .
	Its leaves are $1.5 - 5$ cm long, are obovate to
	oblanceolate shaped. They are all basal in arrangement,
	allowing a rosette to form <sup>2</sup> .
	Flowers vary from $3 - 8$ mm, with white or pink
	petals <sup>3</sup> . Petals are domed or tufted, stems will lie on
	ground, and form a circle around leaves <sup>3, 5</sup> .
	Seeds are black, 7-12 mm long, shiny, and are
	orbicular-reniform <sup>3</sup> .
	C. umbellata is taprooted <sup>4</sup> .
PROP	AGATION DETAILS
Ecotype	AGATION DETAILS
Propagation Goal	Seed
Propagation Method	Seed
Product Type	Bareroot
Stock Type	Bureloot
Time to Grow	Flowers from May – August <sup>5</sup> .
Target Specifications	N/A
Propagule Collection Instructions	N/A
Propagule Processing/Propagule	N/A
Characteristics	
Pre-Planting Propagule Treatments	N/A
Growing Area Preparation / Annual	Plant prefers dry sandy or gravelly soils <sup>4</sup> , and in open
Practices for Perennial Crops	sun <sup>4</sup> . Likes well drained soil <sup>6</sup> .
Establishment Phase Details	N/A
Length of Establishment Phase	N/A
Active Growth Phase	N/A
Length of Active Growth Phase	N/A

Hardening Phase	N/A	
Length of Hardening Phase	N/A	
Harvesting, Storage and Shipping	N/A	
Length of Storage	N/A	
Guidelines for Outplanting /		
Performance on Typical Sites		
Other Comments		
INFORMATION SOURCES		
References	See below.	
Other Sources Consulted	See below.	
Protocol Author	Kelly AuVu	
Date Protocol Created or Updated	05/22/16	

## **References:**

- 1: "Cistanthe Umbellata Umbellata (Mt. Hood Pussypaws)." *Plants Profile*. Web. 30 May 2016. <a href="http://plants.usda.gov/core/profile?symbol=CIUMU">http://plants.usda.gov/core/profile?symbol=CIUMU</a>.
- 2: "WTU Herbarium Image Collection." *Burke Museum*. Web. 30 May 2016. <a href="http://biology.burke.washington.edu/herbarium/imagecollection.php?SciName=Calyptridium umbellatum">http://biology.burke.washington.edu/herbarium/imagecollection.php?SciName=Calyptridium umbellatum</a>.
- 3: "Mt. Hood Pussypaws Cistanthe Umbellata (Calyptridium Umbellatum, Spraguea Umbellata)." *ENature: FieldGuides: Species Detail.* Web. 30 May 2016. <a href="http://www.enature.com/fieldguides/detail.asp?recNum=WF0478">http://www.enature.com/fieldguides/detail.asp?recNum=WF0478</a>.
- 4: "Taxon Page." *Flora of North America*. Web. 30 May 2016. <a href="http://www.efloras.org/florataxon.aspx?flora">http://www.efloras.org/florataxon.aspx?flora</a> id=1>.
- 5: "C. Umbellatum (Torr.) Greene." *UC/JEPS: Jepson Manual*. Web. 30 May 2016. <a href="http://ucjeps.berkeley.edu/cgi-bin/get\_JM">http://ucjeps.berkeley.edu/cgi-bin/get\_JM</a> treatment.pl?6318,6324,6335>.
- 6: "Wild Ginger Farm." Web. 30 May 2016.

## Other:

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"NPIN: Native Plant Database." Lady Bird Johnson Wildflower Center. Web. 30 May 2016.

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