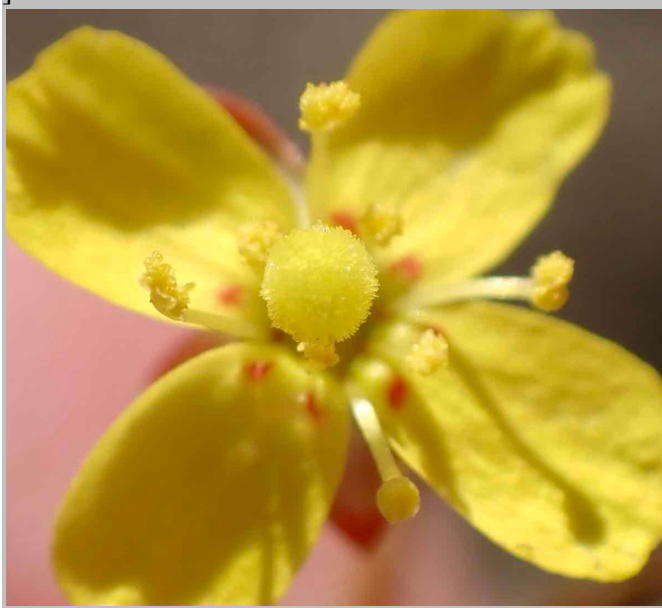


**Plant Propagation Protocol for [*Camissonia contorta* (Douglas) Kearney]**

ESRM 412 – Native Plant Production

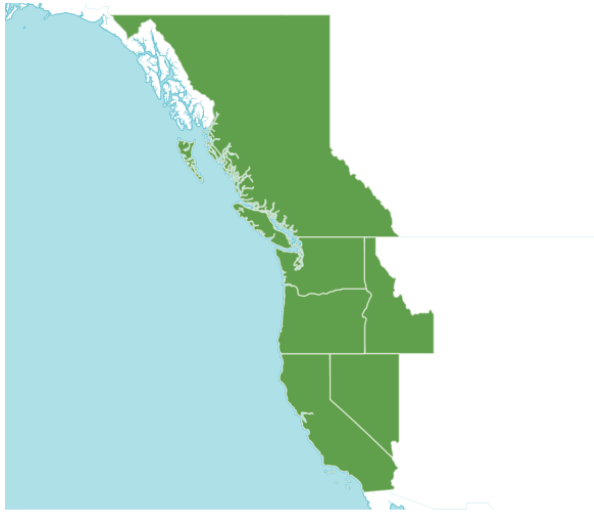
URL: [https://courses.washington.edu/esrm412/protocols/\[year\]/\[USDA Species Code.pdf\]](https://courses.washington.edu/esrm412/protocols/[year]/[USDA Species Code.pdf])

(example: <http://courses.washington.edu/esrm412/protocols/2008/LAJA.pdf>)



(calflora)

TAXONOMY	
Plant Family	
Scientific Name	<i>Onagraceae</i>
Common Name	Evening Primrose Family
Species Scientific Name	
Scientific Name	<i>Camissonia contorta</i> (Douglas) Kearney
Varieties	no literature found
Sub-species	no literature found

Cultivar	
Common Synonym(s)	<i>Oenothera contorta</i> , <i>Oenothera cruciata</i> , <i>Oenothera dentata</i>
Common Name(s)	Contorted sun cup, Plains evening primrose, Contorted-pod evening primrose Dwarf contorted suncup
Species Code (as per USDA Plants database)	CACO34
<b>GENERAL INFORMATION</b>	
Geographical range	 <p>native to british columbia, Washington, oregon, california, Idaho, and Nevada(1</p>
Ecological distribution	It is less water tolerant and ot occurans in rocky areas.[2] It is an annual her restricted to dry, open, and sandy coastal habitats. [7]
Climate and elevation range	
Local habitat and abundance	The elevation range it occurs in is 0 to 8430 feet. in temperature range from 26 to 65 fahrenheit. [2]
Plant strategy type / successional stage	The plant is not a stress-tolerator or competitor it does well in it's fiven areas and does not do well with competition with invasive plants.[7]
Plant characteristics	It is an annual herb. With slender taproot and a wiry stem. [4]
<b>PROPAGATION DETAILS (Report one type of propagation in section; duplicate section as needed for multiple types of propagation)</b>	
Ecotype	The soil textures it does well in are Clay loam, Silt loam, Loam, Sandy loam, Loamy sand, Sand, Bedrock. [2] For the proporgattion sandy loam will be used.

Propagation Goal	propagation goal is plants, does not grow well with cuttings[3]
Propagation Method	seeds
Product Type	container
Stock Type	
Time to Grow	1 to 9 months[2]
Target Specifications	target specifications are 12 inches[8]
Propagule Collection Instructions	no literature found
Propagule Processing/Propagule Characteristics	no literature found
Pre-Planting Propagule Treatments	no literature found
Growing Area Preparation / Annual Practices for Perennial Crops	the soil texture sandy loam, low water, part shade. [4]
Establishment Phase Details	1 to 3 months [4]
Length of Establishment Phase	1 to 3 months [4]
Active Growth Phase	
Length of Active Growth Phase	2-4 months if planted in the spring march to june [2]
Hardening Phase	Hardening phase is -5 to 35 fahrenheit. [2] hardening phase during december.
Length of Hardening Phase	1 month for hardening and 1 to 9 months for others [2]
Harvesting, Storage and Shipping	no literature found
Length of Storage	no literature found
Guidelines for Outplanting / Performance on Typical Site	restricted to sites that have negligible tree or shrub cover, and no invasive species except for possible scotch broom( <i>Cytisus scoparius</i> ). [8] The cover of herbaceous plant varies from 1 to 50% but stays at around 20% as the highest for out planting sites.[8]
Other Comments	
<b>INFORMATION SOURCES</b>	
References (full citations)	see below
Other Sources Consulted (but that contained no pertinent information) (full citations)	see below
Protocol Author	Elliott Peck
Date Protocol Created or Updated	05/24/2023

cited

1 <https://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:55509-2>

2 <https://www.calflora.org/app/taxon?crn=1420>

3 <https://plants.usda.gov/home/plantProfile?symbol=caco34>

- 4 [https://www.wildflower.org/plants/result.php?id\\_plant=caco34](https://www.wildflower.org/plants/result.php?id_plant=caco34)
- 5 [https://calscape.org/Camissonia-contorta-\(Plains-Evening-Primrose\)](https://calscape.org/Camissonia-contorta-(Plains-Evening-Primrose))
- 6 [https://ucjeps.berkeley.edu/eflora/eflora\\_display.php?tid=16910](https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=16910)
- 7 <https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry/recovery-strategies/contorted-pod-evening-primrose-final-2011.html>
- 8 <https://www.americansouthwest.net/plants/wildflowers/camissonia-contorta.html>
- 9 <https://burkeherbarium.org/imagecollection/taxon.php?Taxon=Camissonia%20contorta>
- 10