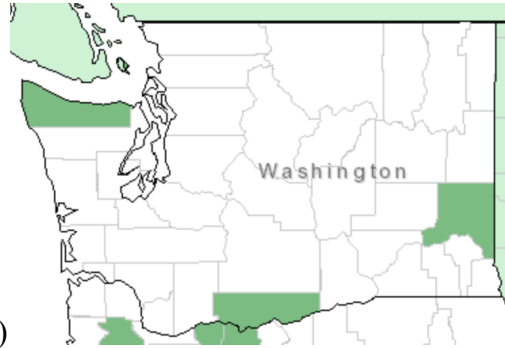
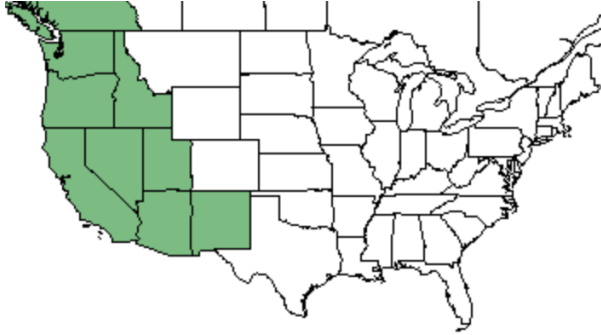


Plant Propagation Protocol for *Yabea microcarpa*

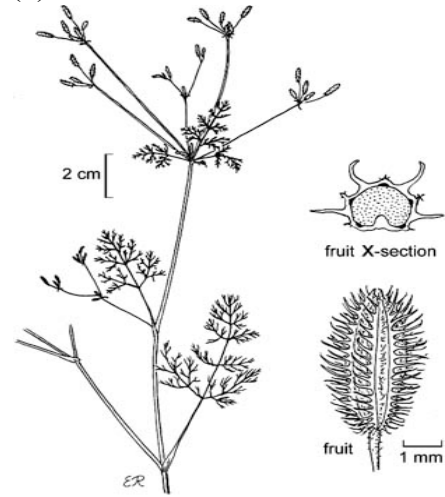
ESRM 412 – Native Plant Production

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



(1)

(1)



Yabea microcarpa

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(8)

(2)

TAXONOMY

Plant Family	
Scientific Name	Apiaceae / Umbelliferae (1)
Common Name	Carrot (1)
Species Scientific Name	
Scientific Name	<i>Yabea microcarpa</i> (Hook. & Arn.) Koso-Pol. (1)
Varieties	
Sub-species	
Cultivar	
Common Synonym(s)	<i>Caucalis microcarpa</i> Hook & Arn. (4)
Common Name(s)	False hedge-parsley (4) False carrot (4) California hedge parsley (5)
Species Code (as per USDA Plants database)	YAMI (1)

GENERAL INFORMATION

Geographical range	Western North America from Baja to British Columbia. As far east as New Mexico (1). Washington: Clallam, Klickitat, Whitman (1)
Ecological distribution	Grassy slopes, chaparral, and woodlands (2)
Climate and elevation range	Elevation: 245 – 5350 feet Annual Precipitation: 12 - 103 inches Temperature: 26 - 94 F Wet Season: 0 - 9 months Growing Season: 3 - 12 months Hardiness Zones: 7b - 10b (3)
Local habitat and abundance	Not of concern (6)
Plant strategy type / successional stage	Annual (1)
Plant characteristics	Herb up to 40cm tall with white flowers. Flowers between March and June (7)

PROPAGATION DETAILS

Ecotype	
Propagation Goal	Seeds
Propagation Method	From seed
Product Type	Propagule (seed)
Stock Type	
Time to Grow	3-12 months (3)
Target Specifications	3-7mm seeds (7)
Propagule Collection Instructions	Collect seeds at various stages of development and from at least 50 individuals (8)
Propagule Processing/Propagule Characteristics	Ensure seed is separated from debris as much as possible (8)
Pre-Planting Propagule Treatments	Sanitize tools and pots to reduce risk of disease (8)
Growing Area Preparation / Annual Practices for Perennial Crops	pH: 5.3 – 7.9 Max salinity; 1.7 mmhos/cm (non-saline) Min depth: 2 inches Max CaCO ₃ Equivalent: 1% Texture: fine, medium, or coarse (3)
Establishment Phase Details	Directly sow seed by hand into growth containers (9)
Length of Establishment Phase	Monitor and record growth daily to determine (8)
Active Growth Phase	Keep on consistent water and light schedule, ensure soil quality is maintained at a high level, and manage any disease or pests (8).
Length of Active Growth Phase	3-12 months (3)
Hardening Phase	
Length of Hardening Phase	
Harvesting, Storage and Shipping	Plant seeds as soon after harvest as time allows (8)
Length of Storage	Minimum (9)
Guidelines for Outplanting / Performance on Typical Sites	Sow seeds at a minimum depth of 2 inches (3)

Other Comments	Keep a detailed log to more firmly establish protocols (8)
INFORMATION SOURCES	
References	<p>1) <i>Plants Profile for Yabea Microcarpa (False Carrot)</i>, plants.usda.gov/core/profile?symbol=YAMI.</p> <p>2) <i>Yabea Microcarpa</i>, ucjeps.berkeley.edu/eflora/eflora_display.php?tid=48745.</p> <p>3) “Plant Characteristics and Associations.” <i>Calflora</i>, www.calflora.org/entry/plantchar.html?crn=8373.</p> <p>4) <i>ITIS Standard Report Page: Yabea Microcarpa</i>, www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=29903#null.</p> <p>5) <i>California Native Plant Society</i>, calscape.org/Yabea-microcarpa-(California-HedgeParsley)?srchr=sc5ced90211d98b.</p> <p>6) WTU Herbarium, et al. <i>Burke Herbarium Image Collection</i>, biology.burke.washington.edu/herbarium/imagecollection/taxon.php?Taxon=Yabea microcarpa.</p> <p>7) <i>SEINet Portal Network - Yabea Microcarpa</i>, swbiodiversity.org/seinet/taxa/index.php?taxon=2236#.</p> <p>8) Wilkinson, Kim M. <i>Tropical Nursery Manual: A Guide to Starting and Operating a Nursery for Native and Traditional Plants</i>. U.S. Department of Agriculture, Forest Service, 2014.</p> <p>9) Landis, Thomas D., and Rebecca G. Nisley. <i>The Container Tree Nursery Manual</i>. U.S. Dept. of Agriculture, Forest Service, 1990.</p> <p>10) “Propagation Techniques.” <i>Reforestation, Nurseries and Genetics Resources</i>, npn.rngr.net/propagation/techniques.</p>
Other Sources Consulted	<p>11) <i>E-Flora BC</i>, linnet.geog.ubc.ca/Atlas/Atlas.aspx?sciname=Yabea microcarpa.</p> <p>12) Keeley, Jon E., et al. “Postfire Chaparral Regeneration Under Mediterranean and Non-Mediterranean Climates.” <i>Madroño</i>, vol. 59, no. 3, 2012, pp. 109–127.</p>
Protocol Author	Jeffrey LaFrance
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