

Plant Propagation Protocol –*Caltha palustris* L. var. *palustris*
 ESRM 412 – Native Plant Production
 Ezekiel Barkley
 Spring 2007

TAXONOMY	
Family Names	
Family Scientific Name:	<i>Ranunculaceae</i>
Family Common Name:	Buttercup
Scientific Names	
Genus:	<i>Caltha</i>
Species:	<i>palustris</i>
Species Authority:	L.
Variety:	<i>palustris</i>
Sub-species:	
Cultivar:	
Authority for Variety/Sub-species:	
Common Synonym(s)	
Genus:	<i>Caltha</i>
Species:	<i>palustris</i>
Species Authority:	L.
Variety:	<i>asarifolia</i>
Sub-species:	
Cultivar:	
Authority for Variety/Sub-species:	
Common Name(s):	Yellow marsh marigold
Species Code (as per USDA Plants database):	CAPAP6
GENERAL INFORMATION	
General Distribution (geographical range (states it occurs in), ecosystems, etc):	Montane meadows, Alpine transition zones, standing/running water of snowmelt, coastal bogs from Alaska to Oregon, etc. (Kruckeberg 1996)
Climate and elevation range	Mediterranean climate from sea level to alpine zone.
Local habitat and abundance; may include commonly associated species	Central coast of WA (plants.usda.gov)
Plant strategy type / successional stage (stress-tolerator, competitor, weedy/colonizer, seral, late successional)	Perennial (plants.usda.gov)
PROPAGATION DETAILS	

Ecotype (this is meant primarily for experimentally derived protocols, and is a description of where the seed that was tested came from):	
Propagation Goal (Options: Plants, Cuttings, Seeds, Bulbs, Somatic Embryos, and/or Other Propagules):	Plants
Propagation Method (Options: Seed or Vegetative):	Seed
Product Type (options: Container (plug), Bareroot (field grown), Plug + (container-field grown hybrids, and/or Propagules (seeds, cuttings, poles, etc.))	Container (plug)
Stock Type:	
Time to Grow (from seeding until plants are ready to be outplanted):	
Target Specifications (size or characteristics of target plants to be produced):	
Propagule Collection (how, when, etc):	
Propagule Processing/Propagule Characteristics (including seed density (# per pound), seed longevity, etc):	Seeds exhibit morpho-physiological dormancy. (Baskin 2002)
Pre-Planting Propagule Treatments (cleaning, dormancy treatments, etc):	Seeds are placed in cold moist stratification for 71 to 112 days. (Baskin 2002)
Growing Area Preparation / Annual Practices for Perennial Crops (growing media, type and size of containers, etc):	
Establishment Phase (from seeding to germination):	
Length of Establishment Phase:	
Active Growth Phase (from germination until plants are no longer actively growing):	
Length of Active Growth Phase:	
Hardening Phase (from end of active growth phase to end of growing season; primarily related to the development of cold-hardiness and preparation for winter):	
Length of Hardening Phase:	

Harvesting, Storage and Shipping (of seedlings):	
Length of Storage (of seedlings, between nursery and outplanting):	
Guidelines for Outplanting / Performance on Typical Sites (eg, percent survival, height or diameter growth, elapsed time before flowering):	
Other Comments:	
INFORMATION SOURCES	
References:	<p>USDA NRCS Plants Database http://www.plants.usda.gov/ Kruckeberg, A.R. 1996. <i>Gardening with native plants of the Pacific Northwest</i>. University of Washington Press, Seattle, WA Native Plants Propagation Protocol Database http://www.nativeplantnetwork.org/network/ Carol and Jerry Baskin, University of Kentucky 2002</p>
Other Sources Consulted (but that contained no pertinent information):	<p>Pacific Northwest Native Plant Resources http://dnr.metrokc.gov/wlr/PI/npresrcs.htm Pojar, J., and A. MacKinnon. 2004. <i>Plants of the Pacific Northwest coast</i>. Lone Pine Press, Vancouver, BC. Miller Library QK144 .P65 1994 Northwest Native Plants, Identification and Propagation, King County Department of Public Works Surface Water Management Division Propagation of Pacific Northwest Plants Rose, Cahchulski, Hasse OSU Press 1998 Grow Your Own Native Landscape Leigh, Native Plant Salvage Project WSU 1999</p>
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