

Plant Propagation Protocol –*Cryptogramma cascadensis*
 ESRM 412 – Native Plant Production
 Ezekiel Barkley
 Spring 2007

TAXONOMY	
Family Names	
Family Scientific Name:	<i>Pteridaceae</i>
Family Common Name:	Maidenhair Fern
Scientific Names	
Genus:	<i>Cryptogramma</i>
Species:	<i>cascadensis</i>
Species Authority:	E.R. Alverson
Variety:	
Sub-species:	
Cultivar:	
Authority for Variety/Sub-species:	
Common Synonym(s)	
Genus:	<i>Cryptogramma, Aspidotis</i>
Species:	<i>acrostichoides, densa</i>
Species Authority:	
Variety:	
Sub-species:	
Cultivar:	
Authority for Variety/Sub-species:	
Common Name(s):	Cascade rockbrake
Species Code (as per USDA Plants database):	CRCA23
GENERAL INFORMATION	
General Distribution (geographical range (states it occurs in), ecosystems, etc):	West Coast of N. America including Idaho and Montana (plants.usda.gov) Talus slopes and cliff crevices, often on igneous rocks, typically in relatively mesic subalpine habitats. (efloras.org)
Climate and elevation range	Mountain climate and range. 900-3500m
Local habitat and abundance; may include commonly associated species	Most commonly found in Wenatchee Mountains of WA (Kruckeberg 1996)
Plant strategy type / successional stage (stress-tolerator, competitor, weedy/colonizer, seral, late successional)	Requires protection of rock overhang. When crown is protected from winter sogginess and a cool root-run is provided, this evergreen fern excels as a rock garden subject. (Kruckeberg 1996)

	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):	
Pre-Planting Propagule Treatments (cleaning, dormancy treatments, etc):	
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:	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 Efloras http://www.efloras.org/florataxon
Other Sources Consulted (but that contained no pertinent information):	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
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