Plant Propagation Protocol for *Rhododendron occidentale* ESRM 412 – Native Plant Production





Source: USDA PLANTS Database

TAXONOMY				
Plant Family				
Scientific Name	Ericaceae			
Common Name	Heath			
Species Scientific Name				
Scientific Name	Rhododendron occidentale L.			
Varieties				
Sub-species				
Cultivar				
Common Synonym(s)	Rhododendron occidentale (Torr. & A. Gray) A. Gray var. paludosum Jeps. Rhododendron occidentale (Torr. & A. Gray) A. Gray var. sonomense (Greene) Rehder			
Common Name(s)	Western azalea, California azalea, Sonoma azalea			
Species Code (as per USDA Plants database)	RHOC			
GENERAL INFORMATION				
Geographical range	Found from the southern Oregon Klamath Ranges to the outer North Coast Ranges of California. ²			
Ecological distribution	Grows in serpentine soils. Found in mountainous soils, stream banks near the coast with abundant soil moisture. ³			

Climate and elevation range	0-2700 m. Temperate oceanic climate. ⁶			
Local habitat and abundance	Abundant in southern Oregon and Northern California			
	near seepages and streambanks. ⁸			
Plant strategy type / successional	Can colonize after a fire if the root system is still			
	intact.8			
	Deciduous, perennial shrub, 3-9 cm elliptic leaves,			
	blooms after leaf emergence. Flowers vary from			
	yellow, white, orange, pink, and usually striped			
	flowers. 6-12 flowers per cluster with 5 stamens. Very			
	fragrant flower. All parts of the plant is poisonous to			
	humans. ⁵			
	AGATION DETAILS			
Ecotype				
Propagation Goal	Germinants			
Propagation Method	Seed			
	Propagules (seeds)			
Stock Type	Container			
	1 year			
Target Specifications	To be outplanted when the first leaves emerge.			
1 0	Collect capsules as they turn brown to green. Oven dry			
	the capsules 12-24 hours at 35 degrees C. If capsules			
	do not split open, they will require crushing to extract			
	seed. Remove chaff and broken pieces through various			
	sized sieves. 4			
	400 viable seeds per capsule. ⁴ Very small and			
	numerous seeds.			
Pre-Planting Propagule Treatments	Store seeds at room temperature with a moisture content of 4-9%. ⁵			
Growing Area Preparation / Annual	Plant seeds with sphagnum moss and sprinkle 2:1			
Practices for Perennial Crops	pearlite/peat mixture. 5 Use 4 inch pots. 7 Soil PH must			
	be acidic, 4-7 PH. ⁹			
Establishment Phase	Cover pots with plastic wrap and place 8 inches			
	beneath fluorescent grow lights. Keep temperatures			
	around 70 degrees Fahrenheit. ¹⁰			
	Seeds must not be buried or covered. They need			
	sunlight to germinate. ⁴ 1-3 weeks			
Length of Establishment Phase Active Growth Phase	Transplant to acid soil with high organic matter			
	content. ⁵			
	Keep plants indoors and away from freezing			
	temperatures until a few months old. ¹¹			
Length of Active Growth Phase	3 years			
	Place outside in the autumn and do not encourage			
	growth with fertilzers since new foliage is susceptible			

	to frost. Must allow plant to enter dormancy to properly harden the plant. ¹¹				
Length of Hardening Phase	From autumn to spring.				
Harvesting, Storage and Shipping	Unknown				
Length of Storage	Unknown				
Guidelines for Outplanting /	Plant at a site with filtered shade and moist, well				
Performance on Typical Sites	drained soil. Do not dig hole deeper than the container.				
	Ensure soil is within desired PH level. Use mulch or a				
	moss to conserve moisture around the roots. 12 Plants				
	can be sensitive to soils and moisture level making				
	them less successful to grow unless propagated				
	correctly.				
Other Comments	The species is crossed with other species very				
	frequently to make fragrant hybrids.				
INFORMATION SOURCES					
References	See Below				
Other Sources Consulted					
Protocol Author	Jeremy Nygard				
Date Protocol Created or Updated	04/30/20				

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