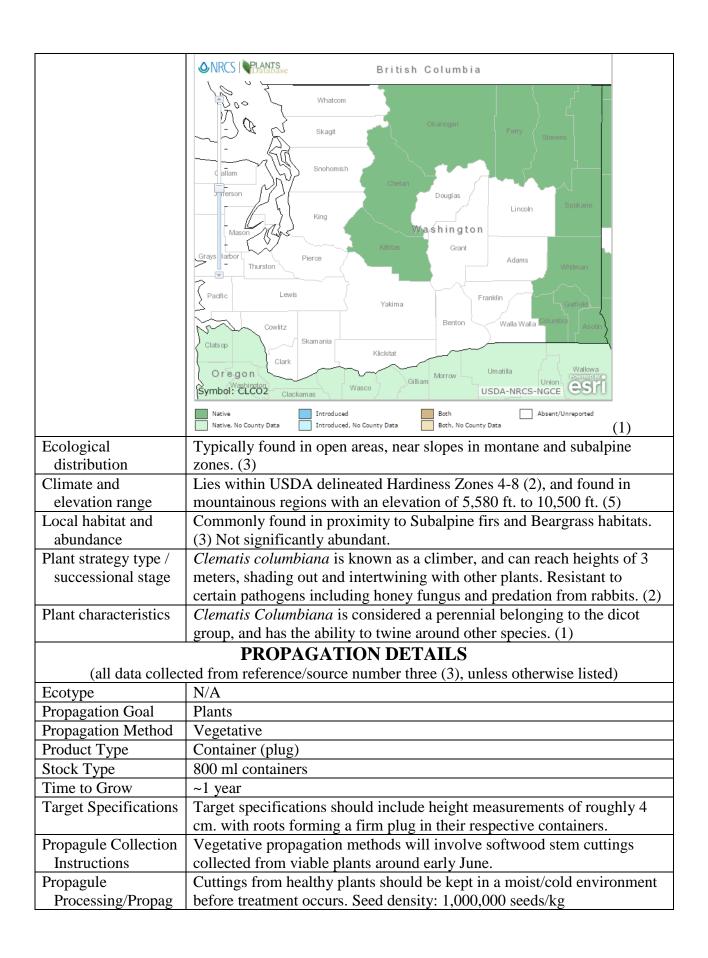
Plant Propagation Protocol for Clematis columbiana (Nutt.) Torr. & A. Gray

ESRM 412 – Native Plant Production

Protocol URL: https://courses.washington.edu/esrm412/protocols/CLCO2.pdf

TAXONOMY		
Plant Family		
Scientific Name	Ranunculaceae	
Common Name	Buttercup	
Species Scientific		
Name		
Scientific Name	Clematis columbiana (Nutt.) Torr. & A. Gray	
Varieties	var. tenuiloba (A. Gray) J. Pringle	
Sub-species	N/A	
Cultivar	N/A	
Common	N/A	
Synonym(s)		
Common Name(s)	Rock clematis	
Species Code (as per	CLCO2	
USDA Plants		
database)		
GENERAL INFORMATION		
Geographical range	ONRCS I PLANTS &C	
	Symbol: CLCO2 USDA-NRCS-NGCE CST	
	Native Introduced Both Absent/Unreported Introduced, No County Data Both, No County Data (1)	



ule Characteristi	cs
Pre-Planting	Stem cuttings should measure close to 3 cm. in length and 0.4 cm. in
Propagule	diameter, and collected in late June, or when flowering is prevalent.
Treatments	Treatment of the cuttings may involve the use of a rooting powder such
	as 8000 ppm Hormex.
Growing Area	1:1 ratio of a sand and perlite potting medium, accompanied with a mist
Preparation /	application method of watering. 800 ml containers with adequate
Annual Practices	
for Perennial	
Crops	
Establishment Pha	se Roughly 38% of the plant should establish as root with 50% of the
Details	cuttings producing well branched roots roughly 4 cm in length.
Length of	7 weeks
Establishment	
Phase	
Active Growth	Following transfer of cuttings into 800 ml containers containing a 6:1:1
Phase	ratio of milled spaghnum peat, perlite, and vermiculite, application of ~ 2
	grams of a controlled release fertilizer (Osmocote) is advised. Cuttings
	are then irrigated in a shadehouse for 4 weeks and moved into full sun
	exposure.
Length of Active	8 weeks
Growth Phase	
Hardening Phase	Light application of a 10-20-20 liquid NPK (nitrogen, phosphate,
	potassium) fertilizer at 200 ppm in August and September. Irrigation
	should be dialed down by October prior to winterization.
Length of Hardeni Phase	ng 5 months
Harvesting, Storag	
and Shipping	color in late September and cleaned with a hammermill. Store overwinter
	under an insulating foam cover and snow.
Length of Storage	Seed longevity may last up to 2 years. 1.3 years total time required for
	entire harvest cycle.
Guidelines for	N/A
Outplanting /	
Performance on	
Typical Sites	X 12 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1
Other Comments	Young, rudimentary embryos may not germinate until the following year,
	following a ripening period.
INFORMATION SOURCES	
References	1. USDA - Natural Resources Conservation Center. (n.d.). Plants Profile for
	Clematis columbiana (rock clematis). Retrieved May 20, 2016, from
	http://plants.usda.gov/core/profile?symbol=clco2
	2. Plants for a Future. (n.d.). Clematis columbiana Rock Clematis PFAF Plant
	Database. Retrieved May 20, 2016, from
	http://www.pfaf.org/user/Plant.aspx?LatinName=Clematis columbiana
	hep.,, www.piar.org.abet/1 lane.abpx. Danin taine—Clemans Columbiana

	3. Luna, T. (n.d.). Native Plant Network Propagation Protocol Database. Retrieved May 21, 2016, from http://npn.rngr.net/renderNPNProtocolDetails?selectedProtocolIds=ranuncula ceae-clematis-140&referer=wildflower West Glacier, Montana 4. Washington Native Plant Society. (n.d.). Washington Native Plant Society: Photograph of Clematis Columbiana. Retrieved May 21, 2016, from http://www.wnps.org/plants/clematis_columbiana.html 5. Montana Field Guide. (n.d.). Slender-lobed Clematis - Clematis columbiana var. tenuiloba. Retrieved May 22, 2016, from http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDRAN08142
Other Sources	N/A
Consulted	
Protocol Author	Christie Ha
Date Protocol	5/22/2016
Created or	
Updated	