Plant Propagation Protocol for *Cypripedium parviflorum*ESRM 412 – Native Plant Production



TAXONOMY (4,5)		
Family Names		
Family Scientific Name:	Orchidaceae	
Family Common Name:	Orchid Family	
Scientific Names		
Genus:	Cypripedium	
Species:	parviflorum	
Species Authority:	Salisb.	
Variety:	Cypripedium calceolus var. parviflorum	
Authority for Variety/Sub-species:	(Salisb.) Fern.	
Common Synonym:	Cypripedium calceolus L. var. parviflorum (Salisb.) Fernald Cypripedium parviflorum Salisb. var. makasin (Farw.) Sheviak Cypripedium parviflorum Salisb. var. parviflorum Cypripedium parviflorum Salisb. var. pubescens (Willd.) Knight	
Common Name(s):	lesser yellow lady's slipper	
Species Code (as per USDA Plants database):	CYPA19	

GENERAL INFORMATION (2,4)		
Geographical range:	PLANTS CYPR19 CYPR19 CYPR19	
	USA : AK, AL, AR, AZ, CA, CO, CT, DC, DE, GA, IA, ID, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NY, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WA, WI, WV, WY CAN : AB, BC, LB, MB, NB, NF, NS, NT, ON, PE, QC, SK, YT	
Ecological distribution:	Sunny places in damp calcareous fens, non-sphagnous bogs, marshes, and meadows.	
Climate and elevation range	Large geographic range shows that <i>C. parviflorum</i> can tolerate a vast array of climates. Sea level to 2,900m.	
Local habitat and abundance; may include commonly associated species	Shady deciduous and mixed woodlands. Commonly associated with oak, ash, and hazelnut woodlands.	
Plant strategy type:	Long living perennial	
Plant characteristics:	Deciduous Forb/herb 10-80 cm tall	
PROPA	GATION DETAILS (1,2,3)	
Ecotype:		
Propagation Goal:	Plant	
Propagation Method:	Seed	
Product Type:	Container	
Stock Type:	1.2	
Time to Grow:	1-3 years	
Target Specifications:		

Propagule Collection:	Seeds are collected from ripe capsules after flowering, typically in June.	
Propagule Processing/Propagule Characteristics:	Scrape seeds from inside of a ripe capsule. It is imperative to store seeds in a sterile environment until germination. Cleaning with chemical sterilizing agents is not uncommon.	
Pre-Planting Propagule Treatments:		
Growing Area Preparation / Annual Practices for Perennial Crops:	Having proper soil media prepared for sowing seed is important for success with <i>C. parviflorum</i> . A mix of 1 part peat or peat substitute, 1 part sterile loam, and 1 part coarse sand is suggested.	
Establishment Phase:	It is imperative to monitor seedlings for pests and disease, Since this species seeds are so small there is no food in the seed coat so ensuring there are enough nutrients for the plant is important for survival.	
Length of Establishment Phase:	8 weeks	
Active Growth Phase:		
Length of Active Growth Phase:		
Hardening Phase:		
Length of Hardening Phase:		
Harvesting, Storage and Shipping:	Once plants reach desired size transplant them to a container and let them continue to grow. <i>C. parviflorum</i> requires little fertilizer, however it requires a larger amount of water.	
Length of Storage:		
Guidelines for Outplanting / Performance on Typical Sites:		
Other Comments:	C. parviflorum is one of the easiest orchids to propagate, it is considered an endangered plant in Washington.	
INFORMATION SOURCES		
References (full citations):	1-Croix, Isobyl la. <i>Orchid Basics: A step-by-step guide to growing and general care.</i> New York: Sterling Publishing Company, Inc, 2000. Print. 2-Mergen, Daryl. Cypripedium <i>parviflorum</i> Salisb.: A	
	Conservation Assessment. USDA Forest Service, 2006. Web.	
	3-Seaton, Phillip, Margaret Ramsay. <i>Growing Orchids from Seed</i> . Surrey, UK: Kew, 2005. Print.	
	4-"WTU Herbarium Image Collection - Burk Museum." The Burke Museum. University of Washington. 5 June 2009.	

	5-" PLANTS Profile for Cypripedium parviflorum (lesser yellow lady's slipper) USDA PLANTS." plants.usda.gov. USDA NRCS. 5 June 2009. 6-"ITIS Standard Report Page: Cypripedium parviflorum." ITIS Report. ITIS.gov. 6 June 2009
Other Sources Consulted:	Cribb, Phillip. <i>The Genus Cypridedium</i> . Portland, OR: Timber Press, 1999. Print. Tullock, John. <i>Growing Hardy Orchids</i> . Portland, OR: Timber Press, 2005. Print.
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