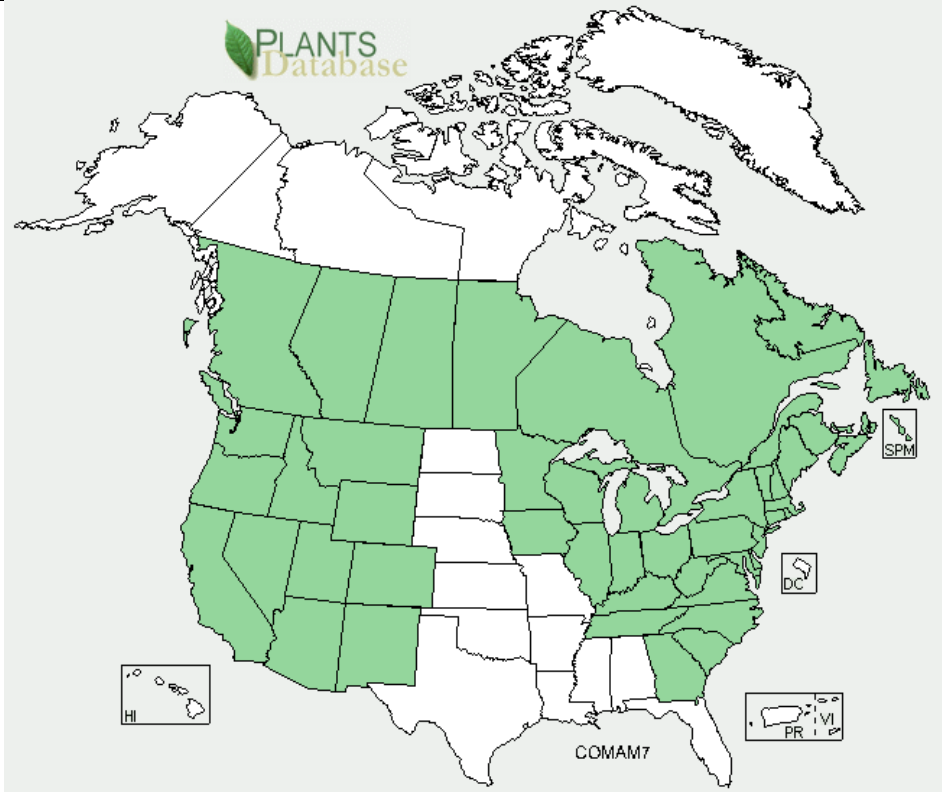


Plant Propagation Protocol for *Corallorhiza maculata* (Raf.) Raf. var. *maculata*
ESRM 412 – Native Plant Production

TAXONOMY	
Family Names	
Family Scientific Name:	Orchidaceae
Family Common Name:	<i>Orchid</i>
Scientific Names	
Genus:	<u><i>Corallorhiza</i> Gagnebin, orth. cons.</u>
Species:	<u><i>Corallorhiza maculata</i> (Raf.) Raf.</u>
Species Authority:	
Variety:	<u><i>Corallorhiza maculata</i> (Raf.) Raf. var. <i>maculata</i></u>
Sub-species:	var. <i>maculata</i>
Cultivar:	
Authority for Variety/Sub-species:	
Common Synonym(s)	COMAF2 <i>Corallorhiza maculata</i> (Raf.) Raf. var. <i>flavida</i> (M. Peck) Cockerell COMU11 <i>Corallorhiza multiflora</i> Nutt. COMAF <i>Corallorrhiza maculata</i> (Raf.) Raf. var. <i>flavida</i> (M. Peck) Cockerell, orth. var. COMAM5 <i>Corallorrhiza maculata</i> (Raf.) Raf. var. <i>maculata</i> (Raf.) Raf., orth. var. summer coralroot COMU5 <i>Corallorrhiza multiflora</i> Nutt., orth. var.
Common Name(s):	Spotted Coralroot, Summer Coralroot, Large Coral-root, Many-flowered Coral-root
Species Code	COMAM7
GENERAL INFORMATION	

Geographic al range	
Ecological distribution	Lower 48 States Canada St. Pierre and Miquelon (France)
Climate and elevation range	Moist, rich, often coniferous, forest; moderated temperature day and night, low wind due to forest floor location and good moisture holding soils. Dense forest. Near sea level to 12,000 feet.
Local habitat and abundance	Shade plant, forest floor from near sea-level to east of the cascades, quite common, in coniferous forest. Found with other herbs- vanilla leaf, Achlys triphylla, violets, Viola spp., wintergreens, Pyrola spp.
Plant strategy	Mycotrophic(obtaining food by association with a fungus), some saprophytes (obtaining food by absorbing dissolved organic material; <i>especially</i> : obtaining nourishment from the products of organic breakdown and decay)
Plant characteri stics	Forb, mycotrophic or saprophyte, perennial. Lacking in green color and thus chlorophyll producing plant parts, survives only from fungal association or decaying plant material.
PROPAGATION DETAILS	
Ecotype	
Propagation Goal	Mention in one book (Corell, 325) of propagation through seed, yet no information on protocol.
Propagation Method	Single brief mention (Corell, 325) of propagation through seed with no information on protocol. Other sources state propagation and transplanting as impossible.

Product Type	
Stock Type	
Time to Grow	
Target	
Propagule	
Propagule	
Pre-Planting	
Growing Area	
Establishment Phase	
Length of Establishment Phase:	
Active Growth Phase	
Length of Active Growth Phase	
Hardening Phase	
Length of Hardening Phase	
Harvesting, Storage and Shipping	
Length of Storage	



PLATE 127.—*Corallorhiza maculata*. 1, basal half of plant, to show the coralloid rhizome, natural size. 2, inflorescence, four fifths natural size. 3, fruits, natural size. 4, flower, front view, one and one half times natural size. 5, lip, spread out, two and one half times natural size. 6, lateral sepal, two and one half times natural size. 7, petal, two and one half times natural size. Drawn by Blanche Ames.

Other Comments	Materials focus almost exclusively on physical identification of a handful of species, maculata being the most common and far ranging. Flower appearance varies, but late June/early August is normal in North America. Due to the fact of their saprophytic and/or mycotropic nature- propagation thus far seems to have been impossible, yet opportunity may exist for the determined.
INFORMATION SOURCES	
References	<p>Hitchcock, C. Leo, and Arthur Cronquist. <i>Flora of the Pacific Northwest; an Illustrated Manual</i>. Seattle: University of Washington, 1973. Print.</p> <p>Brown, Paul Martin. <i>Wild Orchids of the Pacific Northwest and Canadian Rockies</i>. Gainesville, FL: University of Florida, 2006. Print.</p> <p>Pojar, Jim, A. MacKinnon, and Paul B. Alaback. <i>Plants of the Pacific Northwest Coast: Washington, Oregon, British Columbia & Alaska</i>. Redmond, WA: Lone Pine Pub., 1994. Print.</p> <p>Gilkey, Helen Margaret, and L. D. Johnston. <i>Handbook of Northwestern Plants</i>. Corvallis: Oregon State UP, 2001. Print.</p> <p>Ross, Robert A., and Henrietta L. Chambers. <i>Wildflowers of the Western Cascades</i>. Portland, Or.: Timber, 1988. Print.</p> <p>Kozloff, Eugene N. <i>Plants of Western Oregon, Washington & British Columbia</i>. Portland, Or.: Timber, 2005. Print.</p> <p>"WTU Herbarium Image Collection - Burke Museum." Web. 17 Apr. 2012. <http://biology.burke.washington.edu/herbarium/imagecollection.php?Genus=Corallorhiza>.</p> <p>"Welcome to the PLANTS Database USDA PLANTS." <i>301 Moved Permanently</i>. Web. 17 Apr. 2012. <http://plants.usda.gov/java/>. You are here: Home / PLANTS Profile Printer-Friendly Printer-Friendly PLANTS Profile <i>Corallorhiza maculata</i> (Raf.) Raf. var. <i>maculata</i> summer coralroot- COMAM7</p> <p>Correll, Donovan Stewart., Blanche Ames. Ames, and Charles Schweinfurth. <i>Native Orchids of North America</i>. Waltham, MA: Chronica Botanica, 1950. Print.</p>
Other Sources	<p>Robson, Kathleen A., Alice Richter, and Marianne Filbert. <i>Encyclopedia of Northwest Native Plants for Gardens and Landscapes</i>. Portland, Or.: Timber, 2008. Print.</p> <p>Kruckeberg, Arthur R. <i>Gardening with Native Plants of the Pacific Northwest</i>. Seattle: University of Washington, 1982. Print.</p> <p>Young, James A., and Cheryl G. Young. <i>Collecting, Processing, and Germinating Seeds of Wildland Plants</i>. Portland, Or.: Timber, 1986. Print.</p>

	<p>Horn, Elizabeth L. <i>Coastal Wildflowers of the Pacific Northwest: Wildflowers and Flowering Shrubs from British Columbia to Northern California</i>. Missoula, MT: Mountain Pub., 1993. Print.</p> <p>Hardy, George A., and Winifred V. Hardy. <i>Wild Flowers in the Pacific Northwest</i>. Saskatoon, Canada: H.R. Larson, 1964. Print.</p> <p>Gilkey, Helen Margaret. <i>Northwestern American Plants</i>. Corvallis: Oregon State College, 1945. Print.</p> <p>Johnson, Lorraine. <i>100 Easy-to-grow Native Plants: For American Gardens in Temperate Zones</i>. New York: Firefly, 2009. Print.</p> <p>Art, Henry Warren. <i>The Wildflower Gardener's Guide</i>. Pownal, VT: Garden Way Pub., 1990. Print.</p> <p>Leigh, Michael. <i>Grow Your Own Native Landscape: A Guide to Identifying, Propagating & Landscaping with Western Washington Native Plants</i>. Olympia, WA: Native Plant Salvage Project, Washington State University Cooperative Extension, Thurston County, 1999. Print.</p> <p>Stokes, Donald W., and Lillian Q. Stokes. <i>The Wildflower Book. an Easy Guide to Growing and Identifying Wildflowers</i>. Boston: Little, Brown, 1993. Print.</p> <p>Allen, Carol. <i>North American Native Terrestrial Orchids: Propagation and Production : Conference Proceedings, March 16 & 17, 1996</i>. Germantown: North American Native Terrestrial Orchid Conference, 1996. Print.</p> <p>Bechtel, Helmut, Phillip Cribb, and Edmund Launert. <i>The Manual of Cultivated Orchid Species</i>. Cambridge, MA: MIT, 1992. Print.</p> <p>Rittershausen, Wilma, Derek Cranch, Brian Rittershausen, and Wilma Rittershausen. <i>The Gardener's Guide to Growing Orchids: A Complete Guide to Cultivation and Care</i>. London: Southwater, 2008. Print.</p> <p>Rittershausen, Wilma, Brian Rittershausen, and Derek Cranch. <i>Orchids: The Complete Grower's Guide</i>. Woodbridge: Garden Art, 2001. Print.</p>
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