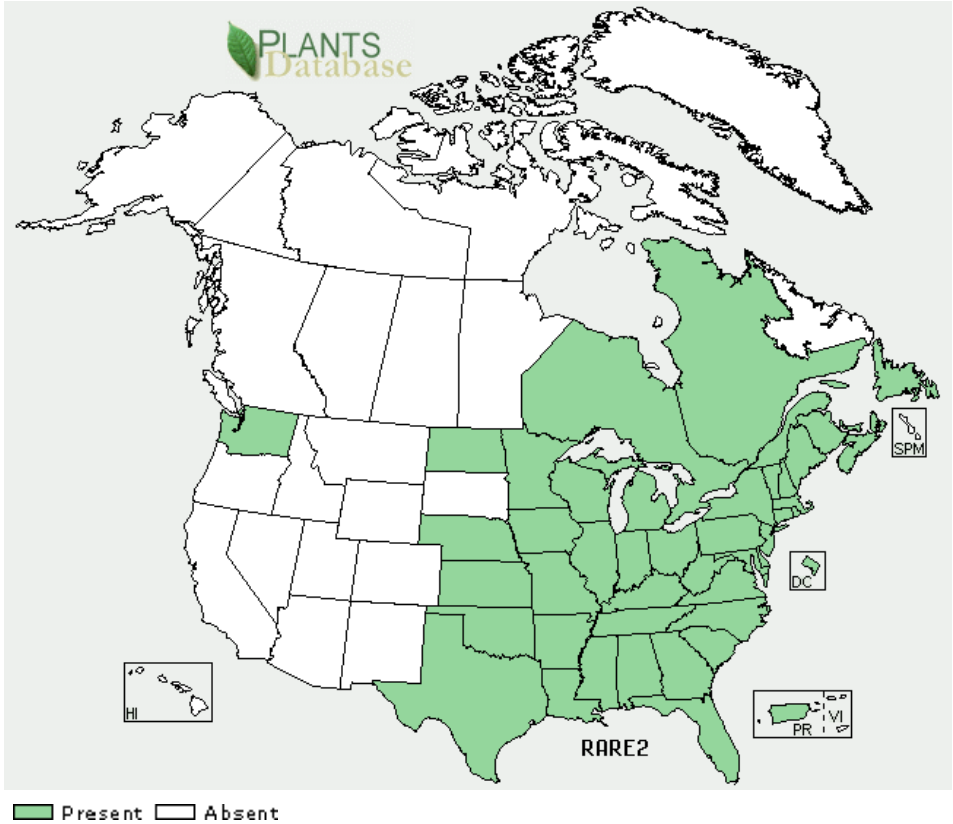


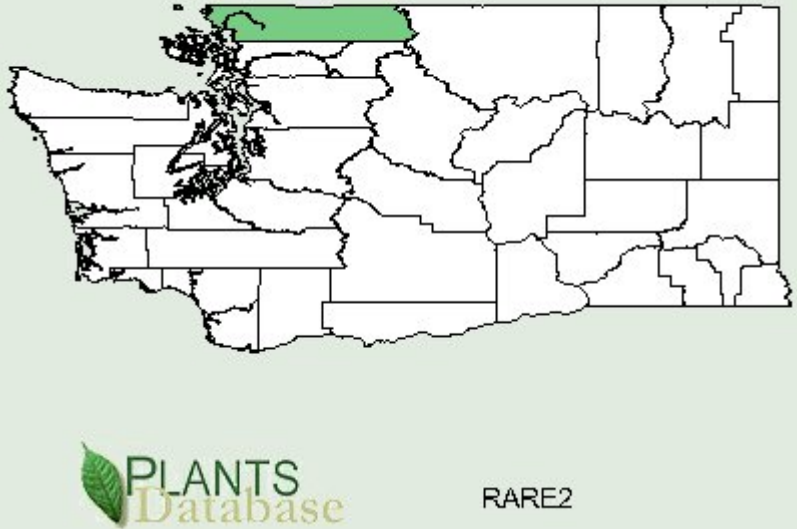
Plant Propagation Protocol for *Ranunculus recurvatus*
ESRM 412 – Native Plant Production



Robert H. Mohlenbrock. USDA SCS. 1989. *Midwest wetland flora: Field office illustrated guide to plant species*. Midwest National Technical Center, Lincoln. Courtesy of [USDA NRCS Wetland Science Institute](https://www.nrcs.usda.gov/wetland-science-institute/).

TAXONOMY	
Family Names	
Family Scientific Name:	Ranunculaceae
Family Common Name:	Buttercup family
Scientific Names	
Genus:	<i>Ranunculus</i>
Species:	<i>Recurvatus</i>
Species Authority:	Poir.
Variety:	<i>Ranunculus recurvatus</i> var. <i>recurvatus</i> Poir. <i>Ranunculus recurvatus</i> var. <i>tropicus</i> (Griseb.) Fawcett & Rendle ²
Sub-species:	N/A
Cultivar:	N/A
Authority for Variety/Sub-species:	Poir. (Griseb.) Fawcett & Kendle
Common Synonyms	<i>Ranunculus recurvatus</i> Bong. <i>Ranunculus recurvatus</i> var. <i>Typicus</i> L.D.Benson <i>Ranunculus recurvatus</i> var. <i>adpressipilis</i> Weath <i>Ranunculus recurvatus</i> var. <i>fontinalis</i> Peattie <i>Ranunculus recurvatus</i> var. <i>laevicaulis</i> Harger ex. Weath <i>Ranunculus recurvatus</i> var. <i>minor</i> Hook. <i>Ranunculus recurvatus</i> var. <i>nelsonii</i> DC. ¹⁰
Common Names:	Blisterwort, little-leaf buttercup, hooked buttercup, Hooked Crowfoot ¹

Species Code (USDA Plants database):	RARE2
GENERAL INFORMATION	
Geographical range	 <p>PLANTS Database</p> <p>RARE2</p> <p>Present Absent</p> <p>http://plants.usda.gov/java/profile?symbol=RARE2</p>

	 <p> Present Absent </p> <p> http://plants.usda.gov/java/county?state_name=Washington&statefips=53&symbol=RARE2 </p> <p>Found in Washington State and eastern North America including Puerto Rico and the West Indies.⁹</p>
Ecological distribution:	Facultative wetlands ⁹
Climate and elevation range	Low to sub-alpine ⁴
Local habitat and abundance; may include commonly associated species	<p>Wetlands, floodplains, bordering shaded streams, swamps, forested bogs, and damp woodlands.</p> <p>Commonly associated with similar species <i>Ranunculus abortivus</i> (Small-Flowered Buttercup and <i>Ranunculus pensylvanicus</i> (Bristly Buttercup)¹</p>
Plant strategy type / successional stage	Aquatic perennial with rhizomes ^{1,5}
Plant characteristics:	<p>Forb/herb, 1-2 feet tall, with hairy erect stems.</p> <p>Leaves: Alternate and basal leaves are 5 in. by 5 in. with long hairy petioles. Leaves are palmately cleft into 3-5 lobes. Medium to dark green upper leaf surface. Upper stems end with flower clusters.⁵</p> <p>Flowers: 1/3 in. in diameter, 5-6 yellow petals with 5 light green sepals. Dense green cluster of pistils include a ring of stamens with yellow anthers.</p>

	<p>Whitish filaments are 2-3 mm. long. Both sepals and petals are deciduous. Pistils transform into small hooked, beaked achenes.⁶</p> <p>Fruits: Globoid shape with 2-3 mm. long flat sided achenes. Color changes from green to black.⁴</p>
PROPAGATION DETAILS	
Ecotype:	N/A
Propagation Goal:	Plant
Propagation Method:	Seed or Division ³
Product Type:	N/A
Stock Type:	N/A
Time to Grow:	N/A
Target Specifications:	N/A
Propagule Collection:	Collect seeds in growing season from early from spring to mid-summer. ⁷
Propagule Processing/Propagule Characteristics :	N/A
Pre-Planting Propagule Treatments:	For seeds: Sow in cold frame in springtime. Once seedlings are hardy enough, prick seedlings and set in individual pots before outplanting in summer. ⁷
Growing Area Preparation / Annual Practices for Perennial Crops:	N/A
Establishment Phase	N/A
Length of Establishment Phase:	N/A
Active Growth Phase:	N/A
Length of Active Growth Phase:	N/A
Hardening Phase :	N/A
Length of Hardening	N/A

Phase:	
Harvesting, Storage and Shipping:	N/A
Length of Storage:	N/A
Guidelines for Outplanting / Performance on Typical Sites:	In Spring, larger divisions can be planted in direct permanent location. Smaller divisions should be in pots and grown in a cold frame under light shade. Then plant divisions in late spring or early summer. ⁸
Other Comments:	N/A
INFORMATION SOURCES	
References:	See Below
Other Sources Consulted (but that contained no pertinent information):	See Below
Protocol Author:	Julie Lefaive
Date Protocol Created or Updated:	6/6/10

References

¹Hilty, John. "Ranunculus Recurvatus Poir. - Encyclopedia of Life." *Encyclopedia of Life*. Web. 16 May 2010. <<http://www.eol.org/pages/596271>>.

²ITIS Standard Report Page: Ranunculus Recurvatus." *Integrated Taxonomic Information System*. Web. 16 May 2010.
http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=18641

³Plants | Royal Horticultural Society." *Home / RHS Gardening*. Web. 15 May 2010.
<<http://apps.rhs.org.uk/rhsplantselector/plantdetailpf.aspx?plantid=43291>>.

⁴Pojar, Jim and Andy MacKinnon. Plants of the Pacific Northwest Coast-Washington, Oregon, British Columbia and Alaska. B.C. Ministry of Forest and Lone Pine Publishing. 1994.

⁵NPIN: Ranunculus Recurvatus (Blisterwort)." *Lady Bird Johnson Wildflower Center - The University of Texas at Austin*. Web. 16 May 2010.
<http://www.wildflower.org/plants/result.php?id_plant=RARE2>.

⁶NPWRC :: Midwestern Wetland Flora." Web. 19 May 2010.
<<http://www.npwrc.usgs.gov/resource/plants/floramw/species/ranurecu.htm>>.

⁷Ranunculus Occidentalis - Plants For A Future Database Report." *Plants For A Future - 7000 Useful Plants*. Web. 19 May 2010.
<<http://www.pfaf.org/database/plants.php?Ranunculus+occidentalis>>.

⁸"Ranunculus Recurvatus Page." *Missouri Flora Web Page*. Web. 18 May 2010.
<http://www.missouriplants.com/Yellowalt/Ranunculus_recurvatus_page.html>

⁹USDA plants Database, accessed 5/16/10
<http://plants.usda.gov/java/profile?symbol=RARE2>

¹⁰Wunderlin, R. P., and B. F. Hansen. 2008. *Atlas of Florida Vascular Plants* (<http://www.plantatlas.usf.edu/>). [S. M. Landry and K. N. Campbell (application development), Florida Center for Community Design and Research.] Institute for Systematic Botany, University of South Florida, Tampa
<<http://www.florida.plantatlas.usf.edu/Plant.aspx?id=778>>. (synonyms)

Other Sources Consulted

Dole, John, and Brian Whipker. "Ranunculus Make Great Cuts." *GMPro* (2006): 75-80.

"Herbaceous Native Plant Inventory." *Friends of Sligo Creek*. Web. 15 May 2010.
<http://www.fosc.org/PIHerb2.htm>

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