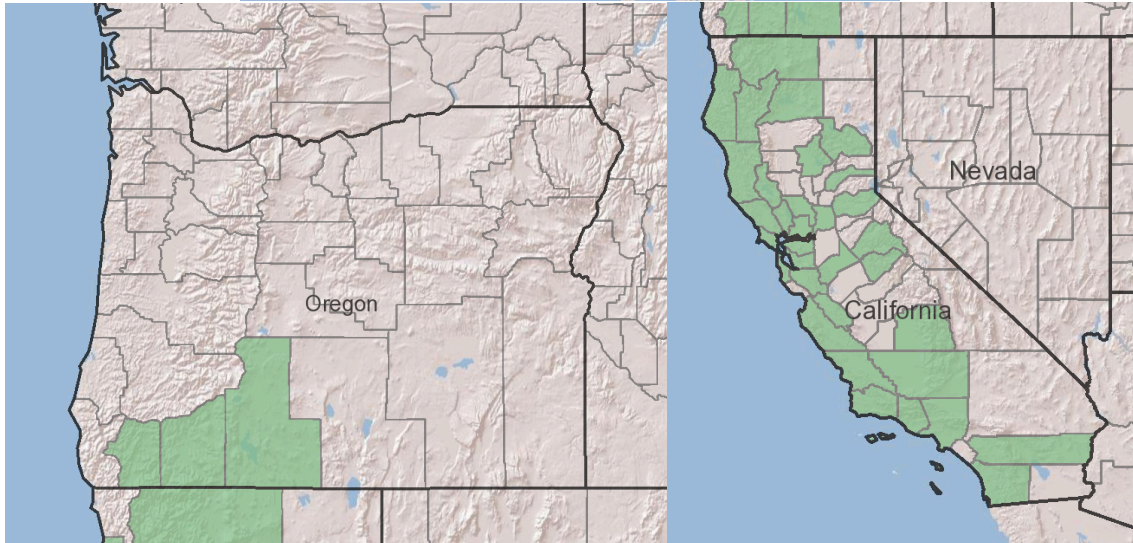
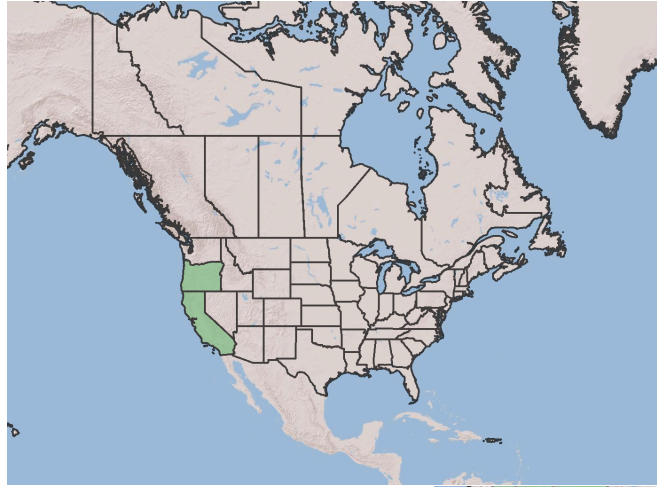


**Plant Propagation Protocol for [Insert Species]**

ESRM 412 – Native Plant Production

URL: <https://courses.washington.edu/esrm412/protocols/2021/COGL3.pdf>



*Sourced from USDA PLANTS Database*

| TAXONOMY        |                               |
|-----------------|-------------------------------|
| Plant Family    |                               |
| Scientific Name | CORNACEAE                     |
| Common Name     | Dogwoods                      |
| Species         |                               |
| Scientific Name |                               |
| Scientific Name | <i>Cornus glabrata</i> Benth. |
| Varieties       |                               |
| Sub-species     |                               |
| Cultivar        |                               |

|  |  |
|--|--|
| Common<br>Synonym(s)                             | <i>Cornus costulata</i> Jeps.<br><i>Swida catalinensis</i> Millsp.<br><i>Swida glabrata</i> (Benth.) A.Heller.<br><i>Thelycrania catalinensis</i> (Millsp.) Pojark.<br><i>Thelycrania glabrata</i> (Benth.) Pojark.  |
| Common Name(s)                                   | Brown Dogwood, Smooth Dogwood  |
| Species Code (as<br>per USDA Plants<br>database) | COGL3  |
| <b>GENERAL INFORMATION</b>                       |  |
| Geographical range                               | <p>Oregon and California.</p> <p>See maps above for distribution in North America as well as the distributions in Oregon State and the State of California.</p>  |
| Ecological<br>distribution                       | Coastal ranges and the foothills of the Sierra Nevada mountains. Some populations exist on the Channel Islands. Typically resides near water and be located near stream banks (Calscape).  |
| Climate and<br>elevation range                   | <p>Below 5,000 feet in elevation (Calscape).</p> <p>Annual precipitation in ideal climate ranges from 9.2-89.2 inches, with 0.16-3.68 inches of the precipitation occurring in the summer months (Calscape).</p>   |
| Local habitat and<br>abundance                   | <p>Often found in similar habitats to various moths and butterflies, including the Echo Blue and Spring Azure. Attracts numerous birds with its flowers and berries (Calscape).</p> <p>Often found in habitats with <i>Sequoia sempervirens</i>, <i>Abies bracteata</i>, <i>Pseudosuga menziesii</i>, <i>Thalictrum fendleri</i>, <i>Styrax officinalis</i>, <i>Mimulus guttatus</i>, <i>Rhododendron</i>, and <i>Vaccinium ovatum</i> (Calscape).</p> <p>Requires partial shade, moderate to high moisture, and slow-draining soil. Typically found on clay to loam soil (California Native Plants and Habitat Enhancement Services) with a pH range from 5.0-8.0 (Calscape).</p> |
| Plant strategy type /<br>successional stage      | <p>Fast-growing perennial shrub. Establishes early in well-watered ecosystems (California Native Plants and Habitat Enhancement Services).</p> <p>Vegetative reproduction via root suckers (Calscape).</p> <p>Adapts to drier conditions by restricting growth (California Native Plants and Habitat Enhancement Services).</p>  |
| Plant characteristics                            | Large, weeping, perennial, deciduous shrub from 4.9 to 20 feet tall. Limber branches and red, purple, or brown bark. Bright green leaves transition to red in autumn. Produces clusters of delicate and stringy white flowers and bluish-white berries in the spring (Calscape).   |

| <b>PROPAGATION DETAILS</b>                                      |   |
|---|---|
| Ecotype   |   |
| Propagation Goal  | Plants  |
| Propagation Method  | Vegetative  |
| Product Type  | Propagules (cuttings of the stem or rhizome)  |
| Stock Type  |   |
| Time to Grow  | 2-4 months  |
| Target Specifications   | Shrub that is 4.9-20 feet tall (Calscape). Can outplant prior to maturation height, or once roots have been established and potting containers have been outgrown (Carroll).  |
| Propagule Collection Instructions                               | Take cuttings in the spring once the shrub completes its bloom cycle. Stem should snap when bent in half. Make cutting one inch below a set of leaves, and ensure the cutting is 3-5 inches long. Keep cuttings damp by sandwiching between wet paper towels (Carroll).   |
| Propagule Processing/Propagation Characteristics                | Prepare cutting for planting immediately after collection. Remove lowest set of leaves from stem to create wounds that encourage root growth. Prune other leaves that may touch the soil when the cutting is placed in media (Carroll).   |
| Pre-Planting Propagule Treatments                               | Once the cutting has been pruned and wounds have been created, dip the bottom of the cutting in rooting hormone prior to planting in media (Carroll).   |
| Growing Area Preparation / Annual Practices for Perennial Crops | Fill potting containers with a mixture of sand and perlite to be used as growing media. The potting container should be at least 3 inches in diameter and run more than 1.5 inches deep. Stick the stem into the growing media 1.5 inches deep then pack down the media to ensure the cutting can stand upright. Wet the media and place in greenhouse environment (Carroll). |
| Establishment Phase Details                                     | Check the cutting for rooting once per week by gently tugging on the stem to see if any resistance has developed. Once roots have established, remove from the greenhouse environment and place containers near partial sunlight. Amend soil with fertilizer every two weeks until plant enters active growth phase (Carroll).  |
| Length of Establishment Phase                                   | The cutting should establish roots within six weeks (Carroll).  |
| Active Growth Phase   | When the cutting has outgrown potting container, replant in larger container with commercial potting soil or in outplanting site (Carroll). Maintain partial sunlight accessibility and soil moisture, ensuring that soil drainage rate is slow (LBJ Wildflower Center).  |
| Length of Active Growth Phase                                   | Plant blooms in March, April, and May (LBJ Wildflower Center). Will flower until June and fruit from August to October (Flora of North America).  |
| Hardening Phase   | Prune the shrub in late fall once leaves have dropped to manage shape (Calscape).   |

|   |  |
|---|--|
| Length of Hardening Phase                                 | Varies. Will enter dormancy once temperatures fall below -15 degrees Celsius (Calscape).   |
| Harvesting, Storage and Shipping                          | Plant cuttings immediately after collection in spring, or store in cool, dark, and moist place (Natural Resources Conservation Service).   |
| Length of Storage   | <p>If unable to immediately plant, can store up to four months in cool, dark, and moist conditions. If the area is excessively wet, it will encourage rooting so be sure to closely monitor (Natural Resources Conservation Service).</p> <p>If planting in potting containers, can store until pots are outgrown, or until summer months (Carroll).</p>   |
| Guidelines for Outplanting / Performance on Typical Sites | Dogwood cuttings in general struggle to root and rarely survive more than one year (Richards). If cuttings are successful, mature plant should reach 4.9-20 feet in height (Calscape). Will bloom annual in March, April and May (LBJ Wildflower Center).  |
| Other Comments  |  |
| <b>INFORMATION SOURCES</b>                                |  |
| References  | <p>“Brown Dogwood.” <i>Calscape: California Native Plant Society</i>, <a href="https://calscape.org/Cornus-glabrata-()">https://calscape.org/Cornus-glabrata-()</a>. Accessed 26 May 2021.</p> <p>“Collecting &amp; Planting Hardwood Cuttings.” <i>Natural Resources Conservation Service</i>, <a href="https://efotg.sc.egov.usda.gov/references/public/UT/HardwoodCuttingJobSheet.pdf">https://efotg.sc.egov.usda.gov/references/public/UT/HardwoodCuttingJobSheet.pdf</a>. Accessed 26 May 2021.</p> <p>Carroll, Jackie. “Starting Dogwoods from Cuttings: When to Take Cuttings of Dogwood.” <i>Gardening Know How</i>, <a href="https://www.gardeningknowhow.com/ornamental/trees/dogwood/starting-dogwood-cuttings.htm">https://www.gardeningknowhow.com/ornamental/trees/dogwood/starting-dogwood-cuttings.htm</a>. Accessed 26 May 2021.</p> <p>“<i>Cornus glabrata</i> Benth.” <i>Flora of North America</i>, <a href="http://www.efloras.org/florataxon.aspx?flora_id=1&amp;taxon_id=250101787">http://www.efloras.org/florataxon.aspx?flora_id=1&amp;taxon_id=250101787</a>. Accessed 26 May 2021.</p> <p>“<i>Cornus glabrata</i> Benth.” <i>The Plant List</i>, <a href="http://www.theplantlist.org/tpl1.1/record/kew-47381">http://www.theplantlist.org/tpl1.1/record/kew-47381</a>. Accessed 26 May 2021.</p> <p>“<i>Cornus glabrata</i> Benth.” <i>USDA PLANTS Database</i>, <a href="https://plants.usda.gov/home/plantProfile?symbol=COGL3">https://plants.usda.gov/home/plantProfile?symbol=COGL3</a>. Accessed 26 May 2021.</p> <p>“<i>Cornus glabrata</i>.” <i>California Native Plants and Habitat Enhancement Services</i>, <a href="https://www.watershednursery.com/nursery/plant-finder/cornus-glabrata/">https://www.watershednursery.com/nursery/plant-finder/cornus-glabrata/</a>. Accessed 26 May 2021.</p> |

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|----------------------------------|--|
|                                  | <p>“<i>Cornus glabrata</i>.” <i>Lady Bird Johnson Wildflower Center</i>, <a href="https://www.wildflower.org/plants/result.php?id_plant=COGL3">https://www.wildflower.org/plants/result.php?id_plant=COGL3</a>. Accessed 26 May 2021.</p> <p>Richards, Julie. “What Time of Year Is It Best to Take Dogwood Tree Cuttings?” <i>SF Gate</i>, <a href="https://homeguides.sfgate.com/time-year-dogwood-tree-cuttings-68619.html">https://homeguides.sfgate.com/time-year-dogwood-tree-cuttings-68619.html</a>. Accessed 26 May 2021.</p> |
| Other Sources Consulted          | <p>“Smooth Dogwood, Brown Dogwood.” <i>Dave’s Garden</i>, <a href="https://davesgarden.com/guides/pf/go/31676/#b">https://davesgarden.com/guides/pf/go/31676/#b</a>. Accessed 26 May 2021.</p>   |
| Protocol Author                  | Kioko Soneda   |
| Date Protocol Created or Updated | 05/26/21   |