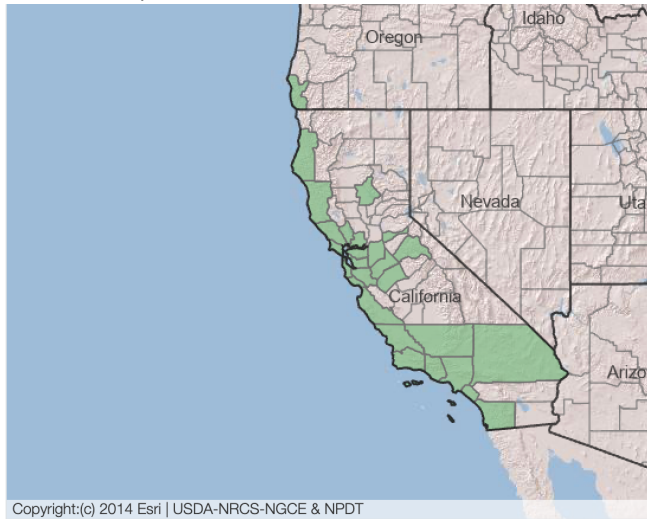


Plant Propagation Protocol for *Baccharis glutinosa* (*Baccharis douglasii*)

ESRM 412 – Native Plant Production

URL: <https://courses.washington.edu/esrm412/protocols/2025/BADO.pdf>

TAXONOMY	
Plant Family	Asteraceae
Scientific Name	<i>Baccharis glutinosa</i>
Common Name	Saltmarsh baccharis
Species Scientific Name	
Scientific Name	<i>Baccharis glutinosa</i> , previously called <i>Baccharis douglasii</i>
Varieties	None recognized by the USDA for this species
Sub-species	None recognized by the USDA for this species
Cultivar	None found for this species
Common Synonym(s)	None found for this species
Common Name(s)	Saltmarsh Baccharis, Douglas' falsewillow ⁶ , Marsh baccharis ⁵
Species Code (as per USDA Plants database)	BADO
GENERAL INFORMATION	
Geographical range	<p>Naïve to Oregon and Mexico^{2,10} and along coastal California US, specifically in northwestern California, the Sierra Nevada Foothills, the Great Central Valley, Central Western California, and the South Coast.⁴</p>  <p align="center"><small>Copyright:(c) 2014 Esri USDA-NRCS-NGCE & NPDT</small></p>
Ecological distribution	Occurs in moist salt marshes and riparian ecosystems
Climate and elevation range	Elevation data varies, however the widest distribution found seems to be 0m-1500m. ^{2,4,7}

Local habitat and abundance	Recorded local habitat communities include Coastal Salt Marsh, Northern Coastal Scrub, Coastal Sage Scrub, Redwood Forest, Yellow Pine Forest, Foothill Woodland, wetland-riparian. ¹³
Plant strategy type / successional stage	Tolerant of sandy soils and seasonal flooding. ¹² likely salt tolerant due to name's sake and habitat type.
Plant characteristics	Life form: Shrub ¹ Flowering: White flowers ¹² that bloom in the summer and fall (June to October). ^{9,13} Growth rate: Fast ⁹ This species may be dormant in the winter. ¹⁵
PROPAGATION DETAILS: FROM SEED	
Ecotype	No information available about known ecotypes.
Propagation Goal	Plants
Propagation Method	Seed
Product Type	Plug (container)
Stock Type	Deepot 16 ¹¹
Time to Grow	No determined total time to grow available.
Target Specifications	Firm root plug ¹¹
Propagule Collection Instructions	Seeds collected in fall and winter, when the seed heads begin to disperse. ¹⁶ Keep seeds dry during storage. ¹¹
Propagule Processing/Propagule Characteristics	Collect brown seed heads and gently crush them to release the seeds. ¹⁶ Alternatively, rub seed heads over a screen to release seeds and separate from other organic material. Reported germination success was about 50% and the expected transplant survival average was ~95%. ¹¹
Pre-Planting Propagule Treatments	No seed treatment ³ , however some sources report cold stratification improving germination rates (4-6 weeks of cold stratification). ¹⁶
Growing Area Preparation / Annual Practices for Perennial Crops	Conduct in a fully controlled greenhouse. Sow seeds (surface sow) in flat containers and water with automatic irrigation systems. Sow seeds in Early to mid-August.
Establishment Phase Details	Sow seeds in Early to mid-August. Growth media: Use Sunshine mix containing peat moss, perlite, major and minor nutrients, gypsum and dolomitic lime. Transplant germinant 14 days after sowing into final containers (Deepot 16) containing a growing media (peat moss, fir bark, perlite, and sand). ¹¹
Length of Establishment Phase	About 14 days to germinate and a month to finish establishment phase. ¹¹
Active Growth Phase	Recommended to prune plants 1 month after transplanting to promote branching. Move plants to a shade house. ¹¹
Length of Active Growth Phase	Dependent on objectives of a plant (or container).
Hardening Phase	Unclear if hardening is necessary.

Length of Hardening Phase	Unclear if hardening is necessary.
Harvesting, Storage and Shipping	No information available
Length of Storage	No information available
Guidelines for Outplanting / Performance on Typical Sites	Outplanting site should be similar to the site seeds were obtained from. Information about timeline was unclear.
Other Comments	This collection of information for seed propagation is referencing <i>Baccharis pilularis</i> DC. (Species code: BACPIL) due to a somewhat shared distribution and shared family. It is unknown if this protocol information is applicable to this species. No information about <i>Baccharis glutinosa</i> (BADO) could be found.
PROPAGATION DETAILS: VEGETATIVE	
Ecotype	No information available about known ecotypes
Propagation Goal	Plant (from cutting)
Propagation Method	Vegetative
Product Type	Container (plug) ¹⁴
Stock Type	Deepot 16 ¹⁴
Time to Grow	Total growth time required not found.
Target Specifications	Firm plug container (developed root system in container)
Propagule Collection Instructions	Collected between early April and late June. Cuttings used were 5cm semi-hardwood. ¹⁴
Propagule Processing/Propagule Characteristics	Likely recommended to collect cuttings from species at outplanting site or sites similar to outplanting site.
Pre-Planting Propagule Treatments	Keep cuttings cool and moist until potted. To reduce the chance of pathogen contamination, dip cuttings in mild bleach solution for no more than 30 seconds. ¹⁴
Growing Area Preparation / Annual Practices for Perennial Crops	In a fully controlled greenhouse, strike cuttings into a 4cm deep flat container to allow roots to develop. Misting every day until root develop. ¹⁴
Establishment Phase Details	transplant cuttings into individual Deepot 16 containers. After transplanting, cuttings are placed in a shade house. Survival averages after transplantation are reportedly 80%. ¹⁴ Growing media: mixture of peat moss, fir, bark, perlite and sand. ¹⁴
Length of Establishment Phase	70 days after initial sticking, however this is unclear. ¹⁴
Active Growth Phase	No information available
Length of Active Growth Phase	No information available
Hardening Phase	No information available

Length of Hardening Phase	No information available
Harvesting, Storage and Shipping	Cuttings should likely be transported soon after deemed ready for outplanting.
Length of Storage	No information available
Guidelines for Outplanting / Performance on Typical Sites	No information available for outplanting survival percentage.
Other Comments	This collection of information for vegetative propagation is referencing <i>Baccharis pilularis</i> DC. (Species code: BACPIL) due to a somewhat shared distribution and shared family. It is unknown if this protocol information is applicable to this species. No information about <i>Baccharis glutinosa</i> (BADO) could be found.

INFORMATION SOURCES

References	<p>1. Natural Resources Conservation service USDA BADO plant profile https://plants.usda.gov/basic-search-results?resultId=76150694-b775-4d84-be03-535d2c0b93b5</p> <p>2. The watershed nursery <i>Baccharis glutinosa</i> information https://www.watershednursery.com/nursery/plant-finder/baccharis-glutinosa/#tab-additional_information</p> <p>3. L. Zhang. "Propagating Plants for Restoration", Younger Lagoon Reserve UCSC. https://youngerlagoonreserve.ucsc.edu/PDFs/Propagating-Plants-for-Restoration.pdf</p> <p>4. Treatment from the Jepson Manual (1993) UC Berkley https://ucjeps.berkeley.edu/cgi-bin/get_JM_treatment?609,781,783</p> <p>5. UC Berkley Jepson Herbaria (2025) https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=1607</p> <p>6. Flora of North America , eFloras.org http://www.efloras.org/florataxon.aspx?flora_id=1&taxon_id=250066179</p> <p>7. Oregon Flora, Department of Botany and Plant Pathology at Oregon State University. https://oregonflora.org/taxa/index.php?taxon=3211</p> <p>8. https://plants.usda.gov/DocumentLibrary/factsheet/pdf/fs_baha.pdf</p> <p>9. Theodore Payne Foundation Baccharis douglasii information article. (https://theodorepayne.org/nativeplantdatabase/index.php?title=Baccharis_douglasii)</p>
------------	---

	<p>10. https://plants.jstor.org/compilation/Baccharis.douglasii</p> <p>11. B. Young. RNGR Plant Protocol <i>Baccharis pilularis</i> seed propagation https://npr.rngr.net/renderNPNProtocolDetails?selectedProtocolIds=asteraceae-baccharis-564&referer=wildflower</p> <p>12. https://www.laspilitas.com/nature-of-california/plants/110--baccharis-douglasii</p> <p>13. https://www.calflora.org/app/taxon?crn=11368</p> <p>14. B. Young. RNGR <i>Baccharis pilularis</i> Vegetative propagation. https://rng.net/renderNPNProtocolDetails?selectedProtocolIds=asteraceae-baccharis-706</p> <p>15. El Nativo Growers <i>Baccharis douglasii</i> information. https://elnativogrowers.com/baccharis-douglasii-1g/</p> <p>16. https://propagate.one/how-to-propagate-baccharis-douglasii/</p>
Other Sources Consulted	<p>17. https://propagate.one/how-to-propagate-baccharis-glutinosa/ Potential usage? Unsure of source material?</p> <p>18. https://calphotos.berkeley.edu/cgi/img_query?where-taxon=Baccharis+glutinosa</p> <p>19. http://floranorthamerica.org/Baccharis_douglasii</p> <p>20. https://plantfinder.nativeplanttrust.org/plant/Baccharis-halimifolia Easter false willow</p>
Protocol Author	Matilda W. Webster
Date Protocol Created or Updated	05/25/2025