

Protocol Information

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Family Scientific Name: **Asteraceae**
Family Common Name: **Sunflower family**
Scientific Name: *Baccharis pilularis* DC.
Common Name: **coyotebrush**
Species Code: **BAPI**
Ecotype: **San Joaquin Valley, CA**
General Distribution: **Northwest California, Sierra Nevada Foothills, west Central Western California, South Coast, Channel Islands, Western Transverse Ranges, Peninsular Ranges, Oregon, Northern Mexico.**
Known Invasiveness: **Plants are dioecious. Male cultivars are preferred for hedgerow plantings as female plants produce numerous wind-dispersed seeds.**
Propagation Goal: **Plants**
Propagation Method: **Vegetative**
Product Type: **Container (plug)**
Stock Type: **Rooted male vegetative cuttings in 1/2 gallon containers.**
Time To Grow: **6 Months**
Target Specifications: **Approximately 6 months to fill a 1/2 gallon container; 4 months to fill a D-40 container. Height: 1/2 gallon containers from 14-17" D-40 containers from 8-12" Root system: full fibrous root system which fills the containers**
Propagule Collection: **Source of cuttings: USDA, NRCS, Lockeford Plant**

Material Center. Cuttings were taken from the hedgerows located at the CAPMC. Collection date 3/30/2012

Propagule Processing: Trim cuttings to about 3" with sterile shears, two or three pairs of leaves at the top.

Pre-Planting Treatments: Dip cut end in 1:20 solution of Wood's brand rooting hormone recommended for herbaceous cuttings.

Growing Area Preparation/

Annual Practices for Perennial Crops: Place dipped cuttings two nodes deep into germination flat filled with a 1:1 mixture of vermiculite to perlite. Place flats in humidity tent set to mist for 1 minute every 32 minutes. Set bottom heat to 80 degrees. 33 days later on 5/1/2012, 96% of cuttings rooted.

Establishment Phase: Transplant rooted cuttings into D-40 containers using sunshine #4 soil, adding no fertilizer and put in lath house, set to irrigate every other day for 20 minutes

Length of Establishment Phase: 3 months

Active Growth Phase: Transplant into 1/2 gallon containers with Sunshine #4 soil and fertilize with Osmocote control release fertilizer 18-6-12 on 8/3/12 and returned to lath house.

Length of Active Growth Phase: 2 months

Hardening Phase: Coyote brush grows actively and blooms over the winter.

Outplanting performance on typical sites: Autumn planting is recommended for California.

Other Comments: Use of male coyotebrush in plantings prevents seed production and the potential for invasiveness, with abundant floral resources over the winter.

References: Hickman, James C. The Jepson Manual: Higher Plants of California. Berkley and Los Angeles: University of California Press, 1993.

Citation:

Gomes, Amy; Smither-Kopperl, Margaret. 2012. Propagation protocol for vegetative production of container *Baccharis pilularis* DC. plants (Rooted male vegetative cuttings in 1/2 gallon containers.); USDA NRCS - Lockeford Plant Materials Center, Lockeford, California. In: Native Plant Network. URL: <http://www.nativeplantnetwork.org> (accessed 24 October 2012). Moscow (ID): University of Idaho, College of Natural Resources, Forest Research Nursery.