

## Plant Guide

### **MARIPOSA LILY**

# Calochortus venustus Dougl. ex Benth.

Plant Symbol = CAVE3

Contributed by: USDA NRCS National Plant Data Center



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#### **Alternate Names**

Butterfly mariposa, Mariposa tulip, white mariposa

#### Uses

Ethnobotanic: The sweet bulbs of this plant were eaten raw, roasted in ashes, boiled, or baked in an earth oven and relished by many tribes in California including the Pomo, Sierra Miwok, Kawaiisu, Wappo, Tubatulabal, and Foothill Yokuts. The Sierra Miwok dug the bulbs in April when buds appeared or after flowering, while the Wukchumni Yokuts dug the plants in bloom about April or May. The bulbs were rubbed across an open-twined basket to remove the outer skin by some tribes. They were harvested with a digging stick and eaten within four or five days, as they do not store well.

#### Status

Please consult the PLANTS Web site and your State Department of Natural Resources for this plant's current status and wetland indicator values.

#### **Description**

General: Lily Family (Liliaceae). Calochortus venustus and Calochortus superbus have overlapping distributions and are hard to tell apart. They also were not separated as two distinct species in the first half of the 20th century when anthropologists were doing their fieldwork among tribes. Therefore, it is highly likely that tribes dug the bulbs of populations of both species. The large showy flowers of Calochortus venustus range from white, yellow, purple, to dark red, and have a red-brown eyespot above the gland on the inside of each petal. Sometimes there is a paler blotch above the first. The base of the plant is bulblet-bearing. The erect stems are branched and 1 to 6-flowered. The linear leaves are basal and 1-2 dm long. The fruit is erect, 5-6 cm, linear and angled.

Key Characteristics: The main identifying features that distinguish Calochortus superbus from Calochortus venustus is the nectary. On Calochortus venustus it is square, while on Calochortus superbus it is crescent or chevron-shaped. Another difference is that the petals on Calochortus venustus sometimes have a second distal, paler spot, while with Calochortus superbus the petal spot is always one, generally in the yellow zone.

#### Distribution

For current distribution, please consult the Plant Profile page for this species on the PLANTS Web site. *Calochortus venustus* is found in open grassland, oak woodland, and mixed conifer forests between 300 and 2700 m in central western California, the Sierra Nevada foothills, San Gabriel Mountains, and western Transverse Ranges.

#### **Establishment**

Collect or buy seed from local sources. Place the seeds in a paper bag until you are ready to plant them. Plant them in a 5 inch or deeper pot in a soil that has excellent drainage. Scatter the seeds at least one-quarter inch apart. Sprinkle a light layer of soil on top and then place quarter-inch gravel on top of the soil. The seeds should be planted in the fall and require no stratification. Let the pots sit outside during the winter in partial shade. Water the pots, keeping them slightly damp (if rains are insufficient).

Germination is generally about February. Fertilize the plants in a weak solution about once a month during active growth until April. When the tips of the leaves turn yellow, stop watering and fertilizing (about the end of April). The bulbs are dormant during flowering. In the fall start watering again. Give the plants more room in the fall of the second or third year by transplanting them and spacing them 1-2 inches apart. Plant the plants outside in the ground in the third or fourth year. Plant them in full sun in summer or fall. Start watering them in September. After they have bloomed for the first time, they should be established.

#### Management

Weed around the plants regularly and protect them from insects, birds, mammals, and other animals.

### Cultivars, Improved and Selected Materials (and area of origin)

CAVE3 is somewhat available through native plant nurseries and seed companies within its range.

Contact your local Natural Resources Conservation Service (formerly Soil Conservation Service) office for more information. Look in the phone book under "United States Government." The Natural Resources Conservation Service will be listed under the subheading "Department of Agriculture."

#### References

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For more information about this and other plants, please contact your local NRCS field office or Conservation District, and visit the PLANTS Web site<a href="http://plants.usda.gov">http://plants.usda.gov</a> or the Plant Materials Program Web site <a href="http://Plant-Materials.nrcs.usda.gov">http://Plant-Materials.nrcs.usda.gov</a>

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