**Schiedea obovata**

**SPECIES INFORMATION:** *Schiedea obovata*, a member of the pink family (Caryophyllaceae), is a branching sub-shrub growing to 3 ft in height. The leaves are thick, somewhat fleshy, and elliptic shaped, from 1.8 to 4.3 in. long, and up to 4 in. wide, with three or five large veins. The inflorescence consists of 7 to 12 flowers arranged in a congested cluster. The flowers lack petals, but usually have five sepals which are white inside and green or green-veined on the outside. In fruit, the sepals become fleshy and purple and enclose the capsule, forming a structure similar to a berry in appearance perhaps attractive to birds, which would aid in dispersal.

**DISTRIBUTION:** *Schiedea obovata* was historically known from throughout the Wai‘anae range on O‘ahu, scattered on ridges and slopes in diverse mesic forest, at elevations from 1,800-2,600 ft. (550-800 m).

**ABUNDANCE:** Three sites where extant populations exist include: Pahole Gulch, a rim of Makua Gulch, and Keawapilau. The known populations contain about 30 individuals. The numbers in these populations may be much lower now; in 1999 2 plants at Pahole, 1 plant at Kahanahaiki; and in 2000, 3 plants at Makaleha were reported.

**LOCATION AND CONDITION OF KEY HABITAT:** *Schiedea obovata* typically grows on ridges and slopes in lowland diverse mesic forest dominated by *Acacia koa* (koa) and *Metrosideros polymorpha* (‘ōhi‘a) at an elevation of 1,850 to 2,500 ft. These habitats have been invaded by a number of alien plant species, including *Syzygium cumin*, *Erigeron karvinskianus*, and *Melinis minutiflora*. 
THREATS:
- Competition from an aggressive alien plant species, including molasses grass;
- Habitat degradation by feral pigs;
- Fruit predation by rats;
- Collection or trampling by hikers;
- Small number of populations, further reduction of breeding population may have adverse effects on species' reproductive capacity.

CONSERVATION ACTIONS: The goals of conservation actions are to not only protect current populations, but to also establish further populations to reduce the risk of extinction. The USFWS has developed a recovery plan that details specific tasks needed to recover this species. A later recovery plan also details specific tasks needed to recover this species. In addition to common statewide and island conservation actions, specific actions include:
- Establish secure ex-situ stocks with full founder representation;
- Reduce rat population densities during fruiting season;
- Augment wild population and establish new populations in safe harbors.
MONITORING:
- Survey for populations and distribution in known and likely habitats;
- Monitor plants for insect damage and plant diseases.

RESEARCH PRIORITIES:
- Develop proper horticultural protocols and pest management;
- Conduct pollination biology and seed dispersal studies;
- Map genetic diversity in the surviving populations to guide future reintroduction and augmentation efforts;
- Survey *ex-situ* holdings and conduct molecular fingerprinting to guide future reintroduction and augmentation efforts.

References:


