

Santa Barbara Botanic Garden Rare Plant Conservation Program Projects

Active and ongoing projects

- A comprehensive, collaborative project to recover 14 listed plants on the Channel Islands
 - Focal taxa: *Arctostaphylos confertiflora*, *Berberis pinnata* ssp. *insularis*, *Boechea hoffmanii*, *Castilleja mollis*, *Crocanthemum greenei*, *Dithyrea maritima*, *Dudleya nesiotica*, *Dudleya traskiae*, *Gilia tenuiflora* ssp. *hoffmannii*, *Malacothrix indecora*, *Malacothrix squalida*, *Pentachaeta lyonii*, *Phacelia insularis* ssp. *insularis*, *Thysanocarpus conchuliferus*
- Recovery action for listed plants of Channel Islands National Park
 - Focal taxa: *Berberis pinnata* ssp. *insularis*, *Boechea hoffmanii*, *Castilleja mollis*, *Dudleya nesiotica*, *Dudleya traskiae*, *Gilia tenuiflora* ssp. *hoffmannii*, *Malacothrix indecora*, *Malacothrix squalida*, *Phacelia insularis* ssp. *insularis*, *Sibara filifolia*, *Thysanocarpus conchuliferus*
- Protecting rare plants from invasive plants: risk assessment and habitat enhancement for federally-listed plants in the Central Coast region of California
 - Focal taxa: *Clarkia speciosa* ssp. *immaculata*, *Chlorogalum purpureum* var. *reductum*, *Deinandra increscens* ssp. *villosa*
- Saving for the future: conservation seed banking in the Bureau of Land Management's Central California District
- Inventory and monitoring for priority sensitive plant species in the Bureau of Land Management's Bishop Field Office
- Understanding & conserving the endangered Kern mallow (*Eremalche parryi* ssp. *kernensis*)
 - Status updates
 - Taxonomy & population genetics
 - Conservation & management
- Securing conservation seed collections of CNPS rare plants throughout Central California and the Channel Islands
- Propagating & outplanting recently found *Malacothamnus fasciculatus* var. *nesioticus* (Santa Cruz Island bush mallow) individuals
- *Malacothrix foliosa* ssp. *polycephala*: conservation seed banking a San Nicolas Island endemic plant
- *Dithyrea maritima* conservation, pollination and propagation
- *Clarkia jolonensis*: monitoring, conservation, research and restoration
- *Sanicula maritima*: germination, propagation & restoration
- *Diplacus vandenbergensis* conservation & recovery
- *Eriodictyon capitatum* germination, propagation, genetics, & conservation
- Salt marsh bird's beak (*Chloropyron maritimum* ssp. *maritimum*) conservation & ecology
- Propagation and conservation of Ventura marsh milkvetch (*Astragalus pycnostahyus* var. *lanosissimus*)

Recently completed projects (2016-2020)

- *Eriodictyon altissimum* status update
- Seeds of Success collections at Carrizo Plain National Monument
- Rare plant surveys and conservation seed collections in the California Floristic Province in Baja California, Mexico
- Habitat management and post-fire rehab for Vandenberg Air Force Base, California:
Eriogonum parvifolium surveys
- Habitat management for Vandenberg Air Force Base, California: *Layia carnosa* surveys

General taxonomic and topical interests

- *Clarkia*
- *Dudleya*
- Rare plants of California's Channel Islands
- Conservation seed banking
- Reproductive biology and germination requirements
- Conservation ecology
- Conservation horticulture
- Field surveys & monitoring
- Reintroduction & restoration

Last update: December 2020