

San Marino Environmental Associates
Santa Ana Sucker Experience

Both Baskin and Haglund have 20 years or more experience with the Santa Ana sucker. The following is a partial list of projects relating to the Santa Ana sucker in which Drs Baskin and/or Haglund have been involved.

Santa Clara River.

- § Analysis of the status and available habitat for native fishes in lower Sespe Creek (Santa Clara River drainage).
- § Analysis of the status and available habitat for native fishes in lower Santa Paula Creek (Santa Clara River drainage).
- § Preliminary genetic studies of the introgression between *Catostomus santaanae* and *Catostomus fumeiventris* in the Santa Clara River.
- § Analysis of the impacts of the Mobil oilspill on the native fishes of the Santa Clara River.
- § Analysis of the impacts of the ARCO oilspill on the native fishes of the Santa Clara River.
- § More than 70 status surveys in the Santa Clara River drainage in the last 10 years.
- § Preparation of a habitat conservation plan (Santa Ana sucker covered by the plan).
- § Restoration of sucker habitat in the upper portion of Santa Paula Creek.
- § Status of the hybrid swarm resulting from introgression between *Catostomus santaanae* and *Catostomus fumeiventris* in the Santa Clara River.

San Gabriel River.

- § Collection of Santa Ana suckers in the lower portion of the West Fork of the San Gabriel River.
- § Determination of the distribution of the native fishes (including the Santa Ana sucker) in the upper San Gabriel River.
- § Six years of monitoring native fish populations in the West Fork of the San Gabriel River.
- § Determination of the impacts on downstream fishes (including Santa Ana sucker) of using a F.A.S.T. model of sediment management at Cogswell Dam.
- § Field assistance to USGS/BRD study in the East Fork of the San Gabriel River.
- § Determination of habitat utilization.
- § Habitat utilization and impact of OHV usage..

Los Angeles River.

- § Survey for Santa Ana suckers in Tujunga Canyon.
- § Protection of Santa Ana suckers during stream diversion.

Santa Ana River.

- § Two surveys for Santa Ana suckers in the vicinity of Imperial Highway.
- § Analysis of potential native fish habitat in the Santa Ana River associated with the FERC relicensing of SCE powerhouses.
- § Derivation of habitat suitability curves for use in PHABSIM.
- § Assistance to CFG and USFWS on a survey for Santa Ana suckers below Prado Dam.
- § Santa Ana Sucker Conservation Plan for the Santa Ana River

- § Analysis of Santa Ana sucker habitat and fish recovery associated with a stream diversion.
- § Planning and construction of Santa Ana sucker habitat.
Santa Ana sucker population monitoring (5 years)