

In progress draft dated June 2, 2010.

BDCP Species - Specific Goals and Objectives for Longfin Smelt - Abundance

Global Goal: Longfin smelt will be considered restored when its population dynamics are similar to those that existed in the 1967-1984 period.

Global Objective: Abundance must be equal to or greater than predicted abundance for 5 of 10 years.

BDCP Species Goal	Increase the abundance of longfin smelt within the Delta and Suisun Bay to levels that will contribute the global objective.				
BDCP Objectives	Increase the abundance of longfin smelt within the Delta and Suisun Bay to ___% of 2001-2006 FMWT index (or other suitable basis of comparison) on a 5 year running average basis within 15 years of permit issuance, normalized by water year type. Increase the abundance of longfin smelt within the Delta and Suisun Marsh in wet years to a FMWT index of at least 5,000 (or other suitable basis of comparison) in wet years and no years below a FMWT index of 100 (or other suitable basis of comparison) within 30 years of permit issuance. (In revision)				
Stressors/Limiting Factors	Stressor #1. Reduced transport flows	Stressor #2. Reduced spawning substrate abundance and quality.	Stressor #3. Food Web	Stressor # 4. Contaminants	Stressor # 5. Climate Change
Sub-objectives - Address the Stressor.	Sub-objective #1. Maintain hydrodynamic and flow conditions for larval and juvenile transport in normal, AN, and wet year types, and improve these conditions by ___ for BN, dry and CD water years, on 5 water year running average basis, normalized by water year type.	Sub-objective #2. Increase near shore habitats associated with Longfin smelt spawning as part of restoration of 12,000 acres of tidal habitats in Suisun Marsh, West Delta, and Cache Slough complex within 10 years of permit issuance.	Sub-objective #3. Provide a statistically measurable trajectory of increasing cumulative abundance of longfin smelt preferred prey (Crangon, Mysids, Eurytemora, etc.) in Suisun Bay during March to June, averaged by water year types, within 20 years of permit issuance.	TBD	Sub-objective #5. Adaptively manage hydrodynamic and flow conditions to address changes in timing of adult spawning, and larval and juvenile dispersal through the life of the program.
Conservation Measures	CM1. North Delta Diversion with Hood Bypass criteria and other measures (includes cross channel closing); CM5. Conservation Hatcheries CM6. Non-Native Predator Control; CM9. Non-Native Aquatic Vegetation Control. CM10. Tidal Marsh Restoration (Suisun, West Delta, and Cache Slough ROAs). CM13. Seasonally Inundated Floodplain Restoration.				
Expected Outcome	(In development)				
Metric					