

Comprehensive List of Salmonid and Related Aquatic References For the Tomales Bay Watershed

On-going surveys and monitoring activities:

Marin Municipal Water District

Annual juvenile salmonid surveys

Electrofishing and snorkel surveys at 7 sample sites along the mainstem of Lagunitas Creek, 2 sites in Devil's Gulch, and 4 sites in San Geronimo Creek

Annual coho spawner surveys; survey the mainstem of Lagunitas Creek from Tocaloma to Peters Dam; also survey the mainstem of Devil's Gulch and mainstem of San Geronimo Creek

Annual surveys for California freshwater shrimp; 8 sample sites in the mainstem of Lagunitas Creek.

Annual streambed monitoring surveys, conducted in conjunction with the Marin Resource Conservation District, at 7 sample sites in the mainstem of Lagunitas Creek, between Tocaloma and Shafter Bridge.

Habitat typing surveys along the mainstem of Lagunitas Creek, Devils Gulch, and San Geronimo Creek; survey every 5 years or more frequently following heavy winters. Most recent survey completed in 2003.

Project site surveys for northern spotted owls and California red-legged frogs (coordinating spotted owl surveys with National Park Service staff).

Continuous stream flow monitoring at 2 USGS gages in the mainstem of Lagunitas Creek and an MMWD-operated gage on San Geronimo Creek.

Continuous water temperature monitoring at 6 sites in the mainstem of Lagunitas Creek and 4 sites in San Geronimo Creek.

Project site monitoring of MMWD fisheries enhancement projects, including instream woody debris and watershed erosion control projects.

National Park Service

Annual juvenile salmonid surveys

Electrofishing at 8 Olema Creek mainstem index reach locations, 6 tributary index reach locations on Olema Creek, and 3 index reach locations on Cheda Creek

Snorkel surveys and juvenile population estimates on the mainstem of Olema Creek

Smolt trap surveys on John West Fork since 1998. Plan to initiate trapping on the Mainstem of Olema in the spring of 2004.

Annual coho spawner surveys; survey the mainstem of Olema Creek, as well as 6 tributaries (John West Fork, Randall Gulch, Headwaters Gulch, Giacomini Gulch, Horse Camp Gulch, Quarry Gulch), as well as Cheda Creek.

Semi-Annual surveys for California freshwater shrimp; on Lower Olema Creek.

Habitat typing surveys along the mainstem of Olema Creek, as well as all index reach survey sites.

The NPS supports annual monitoring of the Northern spotted owl within Marin County.

NPS provides partial support (1/3) to the USGS operated station on Lagunitas Creek near Point Reyes Station (Gallagher Gage). The National Park Service operates and maintains a continuous streamflow monitoring station on Olema Creek, as well as a Turbidity Threshold Sampling Station at the Olema site.

NPS collects ambient summer water temperature at multiple sites within the Olema Creek watershed.

Through an NPS-USGS partnership proposal, the USGS is conducting a three-year daily sediment sampling program at the Lagunitas-SPTaylor gage. They will also support operations of turbidity sensors at these stations, and the Lagunitas Creek near Point Reyes Station gage.

Salmon Protection and Watershed Network (SPAWN)

Conducting ongoing spawning salmon surveys and water quality testing.

Sedimentation from Unpaved Roads in the San Geronimo sub-watershed

Inventory of Select Migration Barriers in the San Geronimo sub-Watershed - Spring 2002

Coho Spawning in 2001-2002 in the San Geronimo sub-Watershed with opportunistic notes on steelhead

Relocation of Stranded Juvenile Salmonids - Summer 1999

Relocation of Stranded Juvenile Salmonids - Summer 2000

Relocation of Stranded Juvenile Salmonids - Summer 2001

Relocation of Stranded Juvenile Salmonids - Summer 2002

San Francisco Bay Regional Water Quality Control Board

Collected data on Olema and Lagunitas Creek as part of the statewide Surface Water and Ambient Monitoring Program (SWAMP). The data collected includes basic water quality measurements, macroinvertebrate bioassessments, physical habitat assessments, toxicity test, chemistry, and coliforms. The data is currently being analyzed however, analysis may not be complete prior to June 2004. The purpose of the data is to give a broad overview of condition in the creeks.