

State of California

The Resources Agency

Memorandum

Date: October 20, 1975

To : FILES

FROM : **Department of Fish and Game** - Fisheries Management, Region 3

SUBJECT : Fish Population Sampling of Anderson and Rancheria Creeks,
Navarro River, Mendocino County

On September 24 and 25, 1975 Anderson and Rancheria Creeks were sampled with electroshocking gear to determine the fish population size and composition at revetment sites on both streams. These revetments were constructed to the specifications of the U. S. Soil Conservation Service.

Anderson Creek

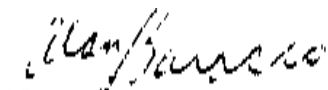
The area sampled on Anderson Creek is located at T 14 N, R 14 W, Sec, 2 on the U.S.G.S. Boonville 15' Quad. The site is adjacent to Boonville High School, downstream from the Highway 128 bridge. The treated area consists of a rip-rap revetment along one side of the stream. Stream flow at this point was visually estimated at less than 0.1 cfs. The stream adjacent to the rip-rap was made up of a large pool approximately 10 feet wide and 5 feet deep. No electroshocking station was established due to the excessive depth, but shocking in accessible areas yielded large populations of western suckers and roach and small numbers of threespine stickleback. The rip-rap has been recently installed and therefore has little canopy. In a well shaded riffle area immediately upstream from the rip-rap a few juvenile steelhead 2-3 inches in length were found (estimated 5/100 feet) in addition to roach, suckers and stickleback. The growth of riparian plants along the rip-rap would probably provide some additional steelhead nursery area, although it would be of marginal quality.

Rancheria Creek

The revetment area on Rancheria Creek is located in the NW 1/4 of Sec. 13, T 12 N, R 13 W on the U.S.G.S. 15' Ornbaum Valley Quad. This is a steel and wire revetment with some rock fill on the shoreward side. Stream flow at this point was visually estimated at 0.2 cfs. A 100-foot electroshocking section adjacent to the revetment yielded the following species: rainbow trout/steelhead, 18%; roach, 82%; western sucker, <1%. The rainbow trout/steelhead averaged 82 mm FL and ranged from 49 to 155 mm. The total fish population estimate for this section is 276 fish.

The area immediately upstream from the revetment was chosen as a natural stream section in the area. Shocking revealed the following species: rainbow trout/steelhead, 20%; roach, 78%; and western suckers, 2%. The rainbow trout/steelhead averaged 78 mm FL and ranged from 49 to 141 nun. The total fish population estimate for this section is 188 fish.

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