State of California The Resources Agency

Memorandum

To : Fisheries Management

Region 3

Date: July 26, 1977

8/1/17

From : Department of Fish and Game - Menlo Park

Subject: Fish Population Samplings, Marin County Streams; July 1977.

On July 13 and 14, 1977, Central Fisheries District personnel sampled fish populations in Redwood, Pine Gulch, Lagunitas and San Geronimo Creeks to determine success of anadromous salmonid spawning. Sampling was accomplished by backpack electroshocking. This has been the second consecutive year of record drought and it is of interest to document spawning success during adverse flow conditions.

Sampling results revealed that successful salmonid upstream migration and spawning occurred on the four streams during the winter-spring of 1976-77. It is interesting to note that only 2 or 3 major storms provided for the upstream migration of adult SH and SS, and flows remained high for short intervals. Winter base flows were very low. Even during years of drought, successful migration and spawning does occur.

Steelhead Y-O-Y were found in all four streams. Silver salmon Y-O-Y were found in all but Pine Gulch Creek. Although flows were very low at the time of sampling (< 0.3 cfs) the fish were in excellent physical condition. Individual sampling reports have been prepared for each stream. Receding flows will have an adverse effect on Y-O-Y fishes this summer and fall. San Geronimo Creek, as of July 26, 1977, was flowing intermittently and fish trapped in pools will be lost. By late August 1977, the reaches of Lagunitas Creek paralleling Sir Francis Drake Boulevard will probably be intermittent, with stagnating pools and eventual loss of some salmonid Y-O-Y.

I feel it is imperative for our Department to undertake measures to insure sufficient water in streams to maintain both resident and anadromous fishery resources.

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