

05-15-89

Redwood Creek, Mendocino County

A survey was conducted on Redwood Creek, Noyo River Drainage, T 18N, R15W, S11) on May 5, 1989 by Rick Macedo and Weldon Jones, Biologists for the Department of Fish and Game to determine the extent and density of fish using this stream.

The sampling included the electrofishing of one 30 meter station in the south west quarter of the southwest quarter of section 36, T19N, R 15W and a random sample of 137 feet of stream in the upper area, (the north west quarter of section 31, T 19N, R14W).

The methodology for the 30 Meter station was a standard 3 pass Leslie, block nets were used to retain the fish during sampling. The method used for the random sample was one pass, with no block nets. In addition; streamflow, air and water temperature measured.

Findings revealed that juvenile steelhead-trout were present in Redwood Creek up to the mid SW. quarter of the SE. quarter of section 30, T 19N, R14 W. Juvenile coho salmon were observed up to the tributary in mid SE. quarter of the SW. of section 30.

Standing crop density of coho salmon at the 30 meter station was 0.02 fish/m²; the biomass was 0.142 kg./hectare. The overall length of coho sampled in the stream ranged in size from 41 to 80 mm with a mean of 54.4 mm. Although numbers were relatively low in the 30 meter station, all appeared to be in excellent condition. The random sample taken upstream revealed a ratio of 1 coho for every 3 steelhead and as such indicated coho densities to be higher in the canyon above the flat.

The standing crop densities of steelhead-trout were higher than that of the coho, revealing 0.459 fish /m² and a biomass of 0.142 kg/he in the 30 meter station. The length of the steelhead-trout caught ranged from 29 to 115 mm. with a mean of 43 mm. providing an indication of multiple ages as would be expected.

The surface area of the 30 meter station was measured and calculated to be 1158 m² the average width of the station was 3.8 m. and the stream flow was determined with a Marsh McBirney meter to be 1.38 c.f.s.

Water temperatures were recorded together with that of air and revealed the following

1100 hours, Air 67⁰f., Water 52⁰f. at the random station.

1427 hours, Air 70⁰f., Water 57⁰f. at the 30 meter station.

Additional observations:

Plastic irrigation pipe with driplines attached were found in the canyon within the SE 1/4 of the SW 1/4 of S30 and the SW 1/4 of the SE 1/4 of S30 T 1 9N R 1 4W. This equipment appeared to be for watering a "garden" operated last year. Fertilizer sacks and animal repellent containers were also evident.

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Stream name: Redwood Creek
Drainage name: Novo River
Date: 05-12-89
Species: Steelhead-trout

Number caught: 66
Range: Minimum = 29 . . . Maximum = 115
Mean: 43.04546
Median: 39

List of frequency (mm - frequency):				27 - 4 .	30 - 3 .	31 - 3 .
34 - 3 .	35 - 3 .	36 - 3 .	37 - 4	38 - 8 .	39 - 4 .	
40 - 1 .	41 - 3 .	42 - 7 .	43 - 1 .	44 - 2 .	46 - 1 .	
47 - 2 .	48 - 3 .	49 - 3 .		89 - 1 .	103 - 1 .	
113 - 1 .	115 - 1 .					

Stream name: Redwood Creek
Drainage name: Novo River
Date: 05-12-89
Species: coho Salmon

Number caught: 2
Range: Minimum = 41 . . . Maximum = 80
Mean: 54.375
Median: 47

List of frequency (mm - frequency):				41 - 1 .	43 - 1 .	44 - 1 .
45 - 1 .	46 - 1 .	65 - 1 .	66 - 1 .	80 - 1 .		