

Field Note
Robinson Creek, Mendocino County
June 23, 1970

*MEN-54R. for for
Robinson Creek*

Robinson Creek, Mendocino County
Fish Population Sampling

Location of sampling station: Downstream from Mt. View Rd. bridge,
NE $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 2, T13N, R14W
Date: June 23, 1970 (Boonville)

Sampling Station Data

Water temperature 76°F; Air temperature 81°F.
Discharge (Pigmy current meter): 0.095 c.f.s.
Mean calculated water depth: 0.177 ft.
Mean calculated stream width: 9.95 ft.
Length of station: 200 ft.
Calculated water volume: 351.4 cubic feet
Water surface area: 1990.0 square ft.
Time: 1620 hours.

Electro-fishing Yield (With Smith-Root backpack unit)

a. Steelhead (only species present)

<u>No. Run #1</u>	<u>No. Run #2</u>	<u>Total Fish</u>	<u>Total Weight*</u>	<u>Pop. Estimate**</u>
9	2	11	129 gms	6/100 ft

Length ranged from approximately 2.0 to 3.9 inches.
Modal fork length: 2.2 and 3.1 inches.
Mean fork length: 3.0 inches.
Mean weight: 11.7 grams per fish (volumetric displacement).

* Weight determined by volumetric displacement.

** Based on $(Y_1)^2 - Y_2$
$$\frac{\quad}{Y_1 - Y_2} = N$$

Juvenile Steelhead Standing Crop Estimate:

- 6 fish per 100 feet of stream.
- 0.031 fish per cubic foot of water (0.363 grams).
- 6.238 pounds of fish per surface acre.
- Robinson Creek, upstream from its confluence with Anderson Creek, provides approximately 4,500 feet of minimal summer nursery habitat. With 6 fish per 100 feet of stream, the standing crop estimate of juvenile Steelhead is 270 fish.

B. A. Albert
Fish and Wildlife Seasonal Aid
Region 3

BA