

THE RESOURCES AGENCY OF CALIFORNIA  
Department of Fish and Game

**STREAM SURVEY**

NAME Unnamed tributary #4 to Garcia River COUNTY Mendocino  
 STREAM SECTION entire FROM headwaters TO mouth LENGTH 7 miles  
 TRIBUTARY TO Garcia River Twp 12 N R 15 W Sec 11  
 OTHER NAMES Unknown RIVER SYSTEM Garcia  
 SOURCES OF DATA Personal observation

<b>EXTENT OF OBSERVATION</b> Include: Name of Surveyor, Date, Etc
<b>LOCATION</b>
<b>RELATION TO OTHER WATERS</b>
<b>GENERAL DESCRIPTION</b>
Watershed
Immediate Drainage Basin
Altitude (Range)
Gradient
Width
Depth
Flow (Range)
Velocity
Bottom
Spawning Areas
Pools
Shelter
Barriers
Diversions
Temperatures
Food
Aquatic Plants
Winter Conditions
Pollution
Springs
FISHES PRESENT AND SUCCESS
OTHER VERTEBRATES
FISHING INTENSITY
OTHER RECREATIONAL USE
ACCESSIBILITY
OWNERSHIP POSTED OR OPEN
IMPROVEMENTS
PAST STOCKING
GENERAL ESTIMATE
RECOMMENDED MANAGEMENT
SKETCH MAP
REFERENCES AND MAPS

EXTENT OF OBSERVATION - Walked from mouth to head waters by Larry M. Johnson on August 22, 1967, between 1200 and 1500.

LOCATION - Mouth of stream is approximately 11 miles east of the town of Point Arena on the Garcia River. Heads in Little Horse opening approximately 11 miles east and 30½ miles north of Point Arena.

RELATION TO OTHER WATERS - Stream is a major contributor of water to the Garcia River during critical water period, (est. 2.5 cfs at mouth). Stream serves as a relatively important nursery area for SH-RT.

GENERAL DESCRIPTION

Watershed and Immediate Drainage Basin - Stream heads in steep V-shaped canyon at a very steep gradient. Stream then levels to a more gradual slope. The stream picks up water from three small tributaries. Stream runs in a generally westerly direction. Little vegetation observed near stream except for trees (redwood, bay alder, Douglas fir), and scattered patches of brush plants.

Altitude - (range) heads at 1700 ft. drops to 350 ft. at mouth.

Gradient - Averages approximately 240 ft. per mile.

Depth - Average 3 ", ranges between one inch and 3 ft.

Width - Average of 5 ft., ranges between 1 ft. and 8 ft.

Flow - At station (a) at mouth 2.5 cfs, at station (b) below first tributary from headwaters (6 miles from mouth) 2.0 cfs.

Velocity - Current maintains a rapid speed throughout its entire distance.

Bottom - Predominantly gravel and rubble, upper part of stream the bottom is largely bedrock and boulders.

Spawning areas - Very good, 60% of stream is well suited as spawning area. The headwater section (upper 2 miles) is very steep with little suitable gravel.

Pools - Good development (40% of stream). Average pool 6 ft. x 4 ft. and 2 ft. deep. Range between 20 ft. x 12 ft. and 4 ft. deep, to 2 ft. x 3 ft. and 1 ft. deep.

Shelter - Abundant, many logs and boulders in pools.

Barriers - None seen

Diversions - None seen

Temperatures - At mouth, air temp. 84°F, water temp. 67° F, time 1200. Headwaters - air temp. 80°F, water temp. 65°F, time 1500.

Food - Mayfly nymph and stonefly nymph seen. Approximately 25 organisms per sq. ft. of rock area.

Aquatic plants - Horsetail observed in very limited amounts along stream. Small amounts of green algae seen.

Winter conditions - From debris and height of banks it appears as if winter flow of stream 7 or 8 times that of the summer run-off.

Pollution - None seen

Springs - None seen

FISHES PRESENT AND SUCCESS - Western suckers present in stream from mouth upstream 1/2 mile, none observed after this point. SH-RT present and apparently very successful. Approximately 100 per 100 ft. of stream. SH-RT size ranged between 1 inch and 10 inches.

OTHER VERTEBRATES - Frogs, water snakes, and a few California newts observed.

FISHING INTENSITY - Unknown

OTHER RECREATIONAL USE - Unknown

ACCESSIBILITY - At present time the only portion accessible by road is the mouth by way of Hollow Tree Lumber Company road from Signal Ridge Road.

OWNERSHIP - Unknown

POSTED OR OPEN - Posted

IMPROVEMENTS - None seen. Debris should be removed from stream area.

PAST STOCKING - Unknown

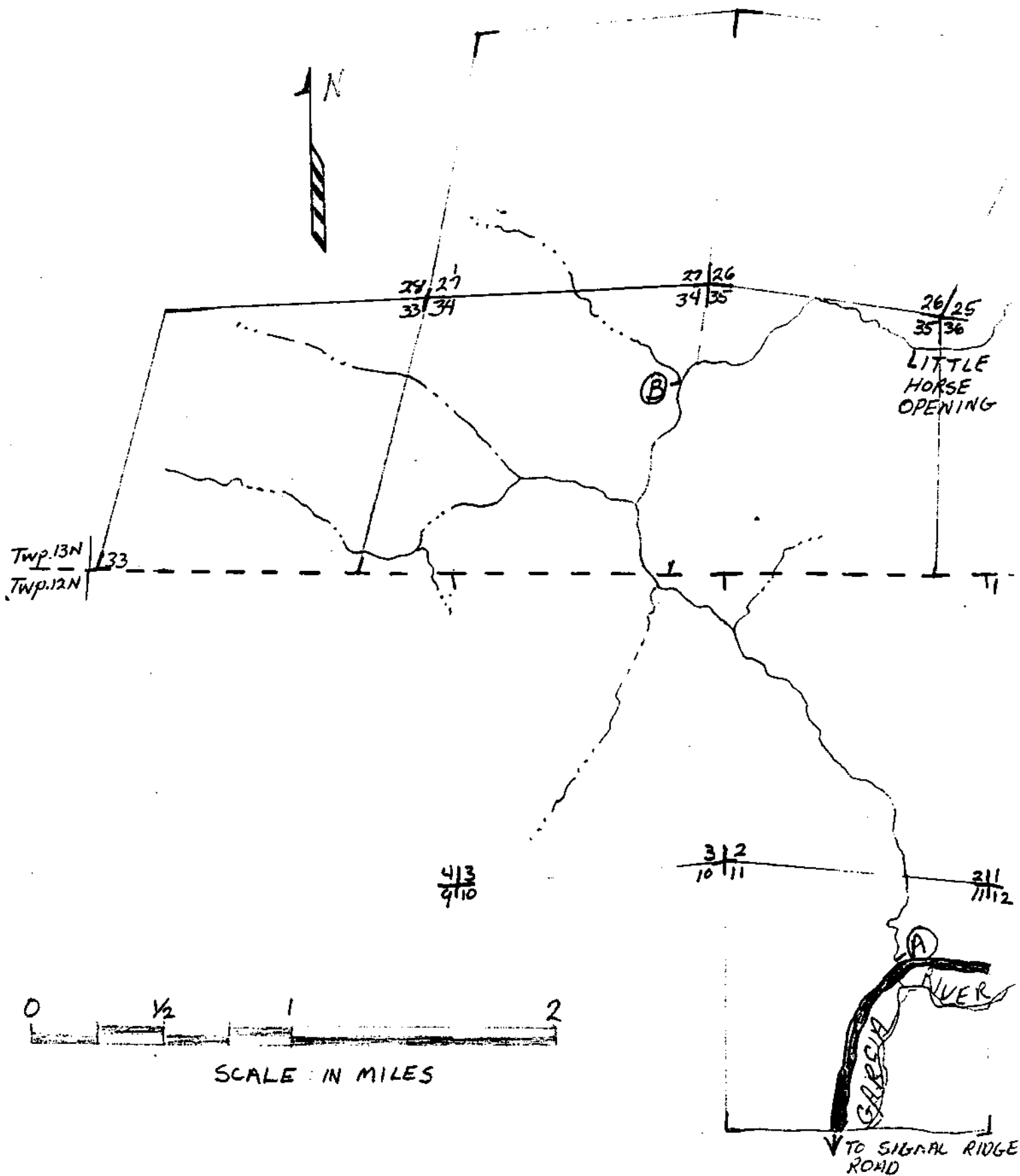
GENERAL ESTIMATE - This stream has had little logging damage, and is a valuable SH-RT nursery-spawning area.

RECOMMENDED MANAGEMENT - The major management recommendation for this stream is that measures be taken to protect it from logging damage that has ruined many streams in this area, and that the debris along the stream be eliminated.

SKETCH MAP - attached.

REFERENCES AND MAPS - USGS Quad. Ornbau Valley - 1960. USGS- Quad. Point Arena 1960.

Gerald Holman  
Assistant Fishery Biologist  
Region 3



UNNAMED TRIBUTARY  
 Twp. 12N R. 15W SEC. 11