

STREAM INVENTORY REPORT

Unnamed Tributary #2 to Woodman Creek

WATERSHED OVERVIEW

Refer to the map for the location of Unnamed Tributary #2.

Unnamed Tributary #2 is tributary to Woodman Creek, tributary to the Eel River, located in Mendocino County, California. Unnamed Tributary #2's legal description at the confluence with Woodman Creek is T22N R14W S21. Its location is 39E45N8.000 north latitude and 123E26N19.430 west longitude. Woodman Creek is a first order stream according to the USGS Iron Peak and Laytonville 7.5 minute quadrangles. Unnamed Tributary #2 drains a watershed of approximately 1.05 square miles. Elevations range from about 1,600 feet at the mouth of the creek to 1,810 feet in the headwater areas. Mixed conifer forest dominates the watershed. The watershed is privately owned and is managed for residence. Vehicle access exists via Wilson Road in Laytonville to an unimproved road that follows Woodman Creek.

HABITAT INVENTORY RESULTS AND DISCUSSION

The habitat inventory of July 14, 1998, was conducted by Caroline Jezierski and Kelly Turner (CCC/WSP/AmeriCorps). The total length of the stream surveyed was 2,657 feet.

Flows were not measured on Unnamed Tributary #2.

The water temperatures recorded on the survey day July 14, 1998, ranged from 64 to 69 degrees Fahrenheit. Air temperatures ranged from 79 to 82 degrees Fahrenheit. For a more complete and accurate water temperature profile 24-hour temperatures would need to be monitored throughout the warm summer months.

Based on the total length of this survey, Level II habitat units consisted of 48% flatwater units, 15% pool units, and 36% riffle units. The pools are relatively shallow, with only 6 of the 19 pools having a maximum depth greater than 2 feet.

Six of the 19 pool tail-outs measured had embeddedness ratings of 3 or 4. None had a 1 rating. Cobble embeddedness of 25% or less, a rating of 1, is considered best for the needs of salmon and steelhead

The mean shelter rating for pools was 2. The shelter rating in the flatwater habitats was 45. A pool shelter rating of approximately 80 is desirable.

Ten of the 19 pool tail-outs measured had gravel or small cobble as the dominant substrate. This is generally considered good for spawning salmonids.

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The mean percent canopy density for the stream was 85%. In general, revegetation projects are considered when canopy density is less than 80%.

The percentage of right and left bank covered with vegetation was 30.6% and 23.3%, respectively. In areas of stream bank erosion or where bank vegetation is not at acceptable levels, planting endemic species of coniferous and deciduous trees, in conjunction with bank stabilization, is recommended.

BIOLOGICAL INVENTORY RESULTS

No biological inventory was taken.

RECOMMENDATIONS

- 1) Woodman Creek Unnamed Tributary #2 should be managed as an anadromous, natural production stream.
- 2) The limited water temperatures available suggest that the maximum temperatures are nearing threshold stress range for juvenile salmonids. To establish more complete and meaningful temperature regime information, 24-hour monitoring during the July and August temperature extreme period should be performed for 3 to 5 years.
- 3) Evaluate the stream crossings for fish passage according to DFG and NOAA Fisheries criteria.
- 4) Inventory and map sources of stream bank erosion and prioritize them according to present and potential sediment yield. Identified sites, like the site at 313', should then be treated to reduce the amount of fine sediments entering the stream.

COMMENTS AND LANDMARKS

The following landmarks and possible problem sites were noted. All distances are approximate and taken from the beginning of the survey reach.

- 0' Begin survey at confluence with Woodman Creek.
- 313' Right bank landslide 80' long x 60' high, partially vegetated, contributing substantial fine sediment to the creek.
- 528' Young-of-the-year (YOY) salmonids observed.

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661' Ten-inch steelhead/rainbow trout observed.

889' Fifteen YOY and five 6" steelhead/rainbow trout observed.

928' Corrugated metal pipe, 40' long x 6' diameter.

1,224' Six-inch steelhead/rainbow trout and YOY observed.

1,306' Tributary enters, right bank.

1,429' YOY and 6" steelhead/rainbow trout observed in fork.

1,860' Ten YOY steelhead/rainbow trout observed.

2,380' Six-inch steelhead/rainbow trout observed.

2,554' Tributary enters, right bank.

2,657' End of survey. Road crossing at top of unit is an impassable 3' culvert with 8' plunge into 0.7' of water.