STREAM INVENTORY REPORT

UNNAMED TRIBUTARY #1 TO WOODMAN CREEK

WATERSHED OVERVIEW

Refer to the map for the location of Unnamed Tributary #1.

Unnamed Tributary #1 is tributary to Woodman Creek, tributary to Eel River, located in Mendocino County, California. Unnamed Tributary #1's legal description at the confluence with Woodman Creek is T22N R14W S16. Its location is 39E45N27.94O north latitude and 123E26N9.35O west longitude. Unnamed Tributary #1 is a first order stream according to the USGS Iron Peak 7.5 minute quadrangle. Unnamed Tributary #1 drains a watershed of approximately 3.8 square miles. Elevations range from about 1,500 feet at the mouth of the creek to 1,860 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 the creek. .

HABITAT INVENTORY RESULTS AND DISCUSSION

The habitat inventory of July 14, 1998 was conducted by John Wooster and Stu McMorrow (WSP/AmeriCorps). The total length of the stream surveyed was 1,592 feet.

Flow was measured at the bottom of the survey reach with a Marsh-McBirney Model 2000 flowmeter at 0.23cfs on July 14, 1998.

Unnamed Tributary #1 is an A2 channel type for the entire 1,592 feet of stream surveyed. The suitability of A2 channel types for fish habitat improvement structures is described in the Woodman Creek report.

The water temperatures recorded on the survey day July 14, 1998, ranged from 64 to 66 degrees Fahrenheit. Air temperatures ranged from 74 to 76 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 55% riffle units, 16% pool units, and 27% flatwater units. The pools are relatively deep, with eight of the twelve pools having a maximum depth greater than 2 feet.

Seven of the 12 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 8. A pool shelter rating of approximately 80 is desirable.

Unnamed Tributary # 1

Seven of the 12 pool tail-outs measured had gravel or small cobble as the dominant substrate. This is generally considered good for spawning salmonids.

The mean percent canopy density for the stream was 77%. In general, revegetation projects are considered when canopy density is less than 80%. The percentage of right and left bank covered with vegetation was 37.9% and 35.5%, respectively.

BIOLOGICAL INVENTORY RESULTS

No biological inventory was conducted.

RECOMMENDATIONS

1) Woodman Creek Unnamed Tributary #1 should be managed as an anadromous, natural production stream.

2) The limited water temperatures available suggest that the maximum temperatures are within the acceptable 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.

COMMENTS AND LANDMARKS

All distances are approximate and taken from the beginning of the survey reach.

0' Begin survey at confluence with Woodman Creek. Channel type is A2

146' Culvert 6' diameter 20% rust line.

314' Channel type taken.

855' Last observed YOY.

1,350' Ten-foot boulder falls with a possible side channel for passage.

1,592' End of survey. Cascade with many drops and velocity barriers, and gradient >25%. Eighteen-foot waterfall with the top blocked off by boulders. Fish barrier, no fish observed since 855'.