

# STREAM INVENTORY REPORT

## First Right Bank Tributary to Two Log Creek

### WATERSHED OVERVIEW

First Right Bank Tributary to Two Log Creek tributary to Two Log Creek, tributary to Big River, located in Mendocino County, California (Map 1). First Right Bank Tributary to Two Log Creek's legal description at the confluence with Two Log Creek is T17N R16W S14 Its location is 39°19'37" north latitude and 123°36'45" west longitude. First right bank tributary is an ephemeral stream according to the USGS Comptche 7.5 minute quadrangle. First Right Bank Tributary to Two Log Creek drains a watershed of approximately 0.34 square miles. Summer base runoff is approximately 0.06 cubic feet per second (cfs) at the mouth. Elevations range from about 320 feet at the mouth of the creek to 380 feet in the headwater areas. Mixed conifer forest dominates the watershed. The watershed is entirely privately owned and is managed for timber production. Vehicle access exists to Two Log Creek via Highway 20 on a logging road at the 14 mile marker.

### HABITAT INVENTORY RESULTS AND DISCUSSION

The habitat inventory of July 2, 1998, was conducted by Andrew MacMillan (CCC) and Paul Retherford (WSP/AmeriCorps). The total length of the stream surveyed was 439 feet.

Flow was measured at the bottom of the survey reach with a Marsh-McBirney Model 2000 flowmeter at 0.06 cfs on July 2, 1998.

First Right Bank Tributary to Two Log Creek is an G4 channel type for the entire 439 feet of stream surveyed. The suitability of G4 channel types for fish habitat improvement structures is good for bank placed boulders; fair for plunge weirs, opposing wing-deflectors and log cover; and poor for boulder clusters and single wing deflectors.

The water temperature recorded on the survey day July 7, 1998 was 58 degrees Fahrenheit. Air temperature was 78 degrees Fahrenheit. This is a suitable water temperature range for salmonids, but water temperatures during warm summer months are lacking. 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% pool units, 41% riffle units, and 12% flatwater units. The pools are relatively shallow, with only 2 of the 8 pools having a maximum depth greater than 2 feet.

All of the 8 pool tail-outs measured had embeddedness ratings of 3 or 4. Cobble embeddedness of 25% or less, a rating of 1, is considered best for the needs of salmon and steelhead. In First Right Bank Tributary to Two Log Creek, sediment sources should be mapped and rated according to their potential sediment yields, and control measures should be taken.

## **First Right Bank Tributary to Two Log Creek**

The mean shelter rating for pools was moderate with a rating of 80. The shelter rating in the flatwater habitats was 20.

Eight of the 8 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 85%. The percentage of right and left bank covered with vegetation was low at 49% and 50%, 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.

### RECOMMENDATIONS

- 1) First Right Bank Tributary to Two Log Creek should be managed as an anadromous, natural production stream.
- 2) Active and potential sediment sources related to the road system need to be identified, mapped, and treated according to their potential for sediment yield to the stream and its tributaries.

### 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.

Position (ft):	Comments:
0'	Begin survey at confluence with Two Log Creek.
130'	Log debris accumulation, 10' long x 20' wide x 10' high, possible barrier.
439'	End of survey. Two jumps 8' high and 6' high into large woody debris, roots, etc. This creek provides little in spawning or rearing habitat but water quality is excellent. Just above jumps is a large swampy area.

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