

STREAM SURVEY

FILE FORM No.

Date October 22, 1974

NAME Jack Peters Gulch COUNTY Mendocino County

STREAM SECTION partial FROM Mouth TO a point about 1/2 mile upstream LENGTH 1/2 mile

TRIBUTARY TO Pacific Ocean TWP. 17 N R. 17 W SEC. 19 & 20

OTHER NAMES None Known RIVER SYSTEM Jack Peters Gulch

SOURCES OF DATA Personal observation of Larry Week and Weldon Jones

EXTENT OF OBSERVATION

Include Names of Surveyor, Date, Etc.

LOCATION

RELATION TO OTHER WATERS

GENERAL DESCRIPTION

Watershed
Immediate Drainage Basin
Altitude (Range)
Gradient
Width
Depth
Flow (Range)
Velocity
Bottom
Spawning
Pools
Shelter
Barriers
Diversions
Temperature
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 - Surveyed on foot by Larry Week on October 22, 1974.

LOCATION - Jack Peters Gulch enters the Pacific Ocean approximately 1 mile north of the City of Mendocino.

RELATION TO OTHER WATERS - Jack Peters Gulch flows directly into the ocean. The stream has a minor contribution on the intertidal area, beach, etc.

GENERAL DESCRIPTION

Watershed and Immediate Drainage Basin - Jack Peters Gulch is one of the smaller coastal drainages, draining approximately 1 1/2 square miles of terrain. The drainage is heavily wooded with Redwood, fir, ferns and other species associated with a coastal redwood climax community. Portions of the southern slopes of the stream, approximately 1/16 mile above the mouth to the upper limit of the survey, has been logged within the past 4 to 5 years. The western 1/2 of Section 20 has more recently been logged. This upper operation involves both sides of the stream.

Altitude - Mouth-0 ft.; headwaters-440 ft.

Gradient - Approximately 175 feet/mile.

Width - 2 to 12 feet.

Depth - 1 inch to 3 feet.

Flow - Visual estimate, slightly less than 1 c.f.s.

Velocity - Moderate

Bottom - Lower section: 15% bedrock, 5% boulders, 30% rubble, 15% gravel, 5% sand, 30% silt and organic debris. Upper area: primarily organic debris and silt with rubble and gravel present.

Spawning Areas - Spawning area suitable for steelhead is limited to isolated locations, making up less than 10% of the streambed. Additional gravel is present but contains heavy deposits of silt.

Pools - Approximately 40% of the stream consists of pools, the remaining area is riffles. The average pool is 8 feet long by 6 feet wide by 2 feet deep.

Shelter - Excellent shelter is provided. Undercut banks, a moderate amount of forest debris, and undergrowth which protrudes into the stream-channel.

Barriers - Several slash piles exist in the stream due to recent logging operations in the upper area. Although logging barriers were observed at the time, this debris could with annual water fluctuation, develop into barriers impassable to migrant fish. The Surfwood dam is believed to be a barrier to the upstream migration of steelhead.

Diversions - approximately 200 yards upstream from the Highway 1 Bridge crossing. A 1 1/2 inch plastic pipe was observed diverting water. The diversion was assumed to be for domestic purposes on the south side of the drainage. A diversion dam owned by Surfwood Estates diverts Water from a location within the SW 1/4 of the NW 1/4 of Section 20, T 17 N, R 17 W, MDB&M.

Jack Peters Gulch
Mendocino County

Station Data - Physical data recorded near the mouth of Jack Peters Gulch: water temperature-48 F air temperature-54 F, weather-overcast, time-11:55 a.m., flow-est. 1 c.f.s.

Food - Not assessed; mayfly and stonefly larvae were present.

Aquatic Plants - Some small pockets of sedges. Algae was present but in very small quantities.

Winter Conditions - The stream appears to raise about 3 feet above the present summer level.

Pollution - Extensive siltation from upstream logging activities was noted during the survey. The silt bedload appeared to be moving from the headwater into the lower parts of the stream. A seepage located on the north bank near the mouth smelled of sewage. This may be a leachate from upslope residential septic tanks.

Springs A few small springs were observed within the surveyed area.

FISHES PRESENT AND SUCCESS - Juvenile steelhead trout were observed throughout the lower portion of the stream. These fish ranged from 3 to 6 inches in length, with most about 4 inches. They occurred at a rate of approximately 10 per 100 feet of stream. No competing species were observed. No fish were observed in the upper area.

OTHER VERTEBRATES - None observed.

ACCESSIBILITY - The extensive dense vegetation on adjacent slopes limits access. Access to the mouth from the Hwy 1 right-of-way. Some private access within Surfwood Estates on the north side. Private logging road provides access in the headwater.

OWNERSHIP - Private.

POSTED OR OPEN - With exception of the mouth at Hwy 1 Bridge, access is posted against trespass

IMPROVEMENTS- None observed.

PAST STOCKING - None on file.

GENERAL ESTIMATE - Jack Peters Gulch provides spawning and rearing habitat for a small population of steelhead. Limiting factors include: (1) low summer streamflow; (2) heavy amounts of silt moving downstream from the headwater; (3) the dam owned by the Surfwood Estates people is believed to restrict steelhead from migrating into the headwater area for spawning purposes. Stream assets include exceptionally good shelter and a vegetative canopy. Temperatures are also good.

RECOMMENDED MANAGEMENT - Manage the stream to retain the steelhead runs. Emphasize the following: (1) maintain maximum summer flows for nursery habitat; (2) modify the Surfwood dam to facilitate steelhead migration into the headwaters; (3) remove extensive log jams where barriers to fish passage could develop; (4) enforce 1602-03 regulations pertaining to logging operations.

References - USGS. 7 1/2 minute series (Mendocino Quad) 1960 series.

Larry Week

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