

THE RESOURCES AGENCY OF CALIFORNIA
Department Of Fish And Game

STREAM SURVEY

Date: September 11, 1974

NAME: HOIL CREEK **COUNTY:** Mendocino

STREAM SECTION: entire **FROM:** Mouth **TO:** Headwaters **LENGTH:** 2.9 miles

TRIBUTARY TO: Tyler Creek, hence Pieta Creek **TWP:** 12N **R:** 9W **SEC:** 18

OTHER NAMES: None known **RIVER SYSTEM:** Russian River

SOURCES OF DATA: Personal observations

| |
|---|
| EXTENT OF OBSERVATION Include: Name 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 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 - Hoil Creek was surveyed on foot by Seasonal Aid Jerry Bruns on September 11, 1974.

RELATION TO OTHER WATERS - Hoil Creek is a major tributary of, and contributes a major portion of, the summer flows to Tyler Creek. It provides excellent nursery and spawning area for steelhead. Hoil Creek is 2.9 miles long and has no named tributaries.

GENERAL DESCRIPTION -

Watershed - Hoil Creek flows through canyon areas for all but the lower 0.2 mile. This lower section opens up into a small valley. The upper drainage is primarily chaparral, while the streamside vegetation is predominantly oak, madrone, and conifers.

Altitude - Mouth-2,160 feet M.S.L., headwaters-3,000 feet M.S.L.

Gradient - 6.4 feet/100 feet.

Width - Range 1-7 feet, average 4 feet.

Depth - Riffles, 1-4 inches, average 2 inches; Pools, 1-6 feet, average 2 feet.

Flow - Ranges from a trickle to 0.5 cfs at the mouth.

Velocity - There are numerous small falls although the general velocity of the stream is slow.

Bottom - Upstream from the impoundment for a distance of 0.5 mile approximately 60% of the streambed was composed of

gravel, 10% rubble, 10% bedrock, 10% boulders, 5% sand and 5% detritus. Upstream from this area the bottom was composed of 30% bedrock, 20% boulders, 25% rubble, 15% gravel, 5% sand and 5% silt. Below the impoundment the bottom was composed of 50% bedrock, 10% boulders, 10% rubble, 10% gravel, 5% sand, 10% silt, and 5% detritus.

Spawning Areas - Above the impoundment for a distance of 0.5 mile, 60% of the stream has suitable spawning area, downstream from the impoundment 10% of the stream is suitable for spawning.

Pools and Riffles - A ratio of 1:1 throughout the survey area.

Shelter - Terrestrial vegetation provides excellent cover in all but the lower 0.2 mile of Hoil Creek. The lower area has abundant cover provided by aquatic plants (equisetum and sedges).

Barriers - A possible barrier exists at the impoundment, especially at low flows. The outlet to the impoundment is screened and has a two-foot drop to the water level at the downstream end. Trout found above the impoundment may not be anadromous.

Diversions - Water is taken from the impoundment for use in an adjacent hunting cabin.

Temperatures - Water temperature was 67°F - 63°F and air temperature was 79°F - 81°F.

Food - Aquatic insects were abundant and included mayflies, caddis, stoneflies, Diptera, Odonata, and Hemiptera.

Aquatic Plants - Equisetum, sedges and filamentous algae were present, mostly in the lower 0.2 mile of stream.

Winter Conditions - Three to four feet above summer flows.

Pollution - Some trash is dumped in the area that could reach the stream during high flows.

Springs - Numerous throughout the area surveyed.

FISHES PRESENT AND SUCCESS - Juvenile steelhead were abundant in the lower 1.9 miles of the stream below the impoundment, averaging 150/100 feet and ranging from one to eight inches. Approximately 5% of the SH were larger than three inches. RT were present above the impoundment.

OTHER VERTEBRATES - Newts, frogs and garter snakes were common.

FISHING INTENSITY - No signs of use except in the impoundment.

OTHER RECREATIONAL USES -

ACCESSIBILITY - Hoil Creek can be reached by taking the Geysers Road and Pine Mountain Road. Pine Mountain Road crosses Hoil Creek 1/10 mile below the impoundment.

OWNERSHIP - Private, posted against trespass.

IMPROVEMENTS - None needed.

PAST STOCKING - None.

GENERAL ESTIMATE - Hoil Creek has excellent summer nursery habitat for juvenile steelhead and provides a substantial portion of summer flows to Tyler Creek.

SKETCH MAP - Attached.

REFERENCES AND MAPS - U.S.G.S, Topographic Map Highland Springs Quad. 7 1/2 minute.

HOIL CREEK
T 12 N R 9 W SEC. 18

