

THE RESOURCES AGENCY OF CALIFORNIA  
 Department of Fish and Game

**STREAM SURVEY**

File form No. \_\_\_\_\_

Date: December 31, 1970

NAME: Fay Creek COUNTY: Sonoma

STREAM SECTION: \_\_\_\_\_ FROM: Mouth To: Upper Fish Limit LENGTH: 2.7 miles

TRIBUTARY TO: Salmon Creek TWP: 6N R: 10W SEC: 18

OTHER NAMES: Not known RIVER SYSTEM: Salmon Creek

SOURCES OF DATA: Personal observation on August 5, 1970 by Ron Edwards and Robert Klamt

<b>EXTENT OF OBSERVATION</b>
Include: Name of Surveyor, Date, Etc
<b>LOCATION</b>
<b>RELATION TO OTHER WATERS</b>
<b>GENERAL DESCRIPTION</b>
Watershed
Immediate Drainage Basin
Altitude (Range)
Gradient
Width
Depth
Flow (Range)
Velocity
Bottom
Spawning Areas
Pools
Shelter
Barriers
Diversions
Temperatures
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<b>FISHES PRESENT AND SUCCESS</b>
<b>OTHER VERTEBRATES</b>
<b>FISHING INTENSITY</b>
<b>OTHER RECREATIONAL USE</b>
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POSTED OR OPEN
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SKETCH MAP
REFERENCES AND MAPS

EXTENT OF OBSERVATION - Fay Creek on foot from mouth at Salmon Creek to upper fish limit 2.7 miles upstream.

LOCATION - Fay Creek flows into Salmon Creek 2.5 miles West of Bodega.

RELATION TO OTHER WATERS - Salmon Creek flows into the Pacific Ocean 1.75 miles North of Bodega Bay.

GENERAL DESCRIPTION -

Watershed and Immediate Drainage Basin - Fay Creek exists as a bowl - to U - to V-shaped canyon with gentle to rough terrain forested with alder, Cottonwood, and redwood. The total drainage area is 4 square miles.

Altitude - At mouth, 100 ft. At upper fish limit, 650 ft.

Gradient - 203 ft. per mile.

Width - Average: riffles - 1 1/2 ft., pools - 6 ft.

Depth - Average: riffles - 3 in., pools - 2 ft.

Flow - Estimated less than 1/4 cfs. Probably some flow underground.

Velocity - Calm or sluggish in lower stretches to moderately rapid in upper stretches.

Bottom - Average: Silt - 30%; sand - 30%; pea gravel - 20%; marble gravel - 15%; ping pong gravel - 5%; larger gravel becomes more dominant in upper section.

Spawning Areas - Averaged 50% - good.

Pools - Averaged 70%: length - 15 ft., width - 6 ft., depth - 2 ft.

Shelter - Primarily from trees and undercut banks. Averaged 6 ft. per 10 ft. of stream.

Barriers - 6 complete log jams and 17 potential jams.

Diversions - No. 1 - 1 watering diversion with pump.

Temperatures - At mouth on August 5, 1970 at 1305: Weather - clear. Altitude - 100 ft. Air - 65°F. Water - 56°F.

Food - Caddisfly and mayfly nymphs.

Aquatic Plants - Algae, mosses.

Winter Conditions - Flow 3-4 feet above summer level.

Pollution - Cow excrement in stream.

Springs - None noted.

FISHES PRESENT AND SUCCESS - Silver Salmon, Steelhead Trout, Stickleback . Sizes: SS -3-4 in. SH - 1-2 in. 4-6 in. Sb - 1-3 in. Abundance - SS&SH - 25-40/100 ft. Sb - 60+/100 ft.

OTHER VERTEBRATES - Frogs, salamanders, snakes.

FISHING INTENSITY - Not known.

OTHER RECREATIONAL USES - Not known.

ACCESSIBILITY - Accessible from Fitzpatrick Lane 2.5 miles West of Bodega. This road gives one only about 1.7 miles of access to the stream from the mouth up.

OWNERSHIP - F. Stecker, W. J. Ryan.

POSTED OR OPEN - Posted.

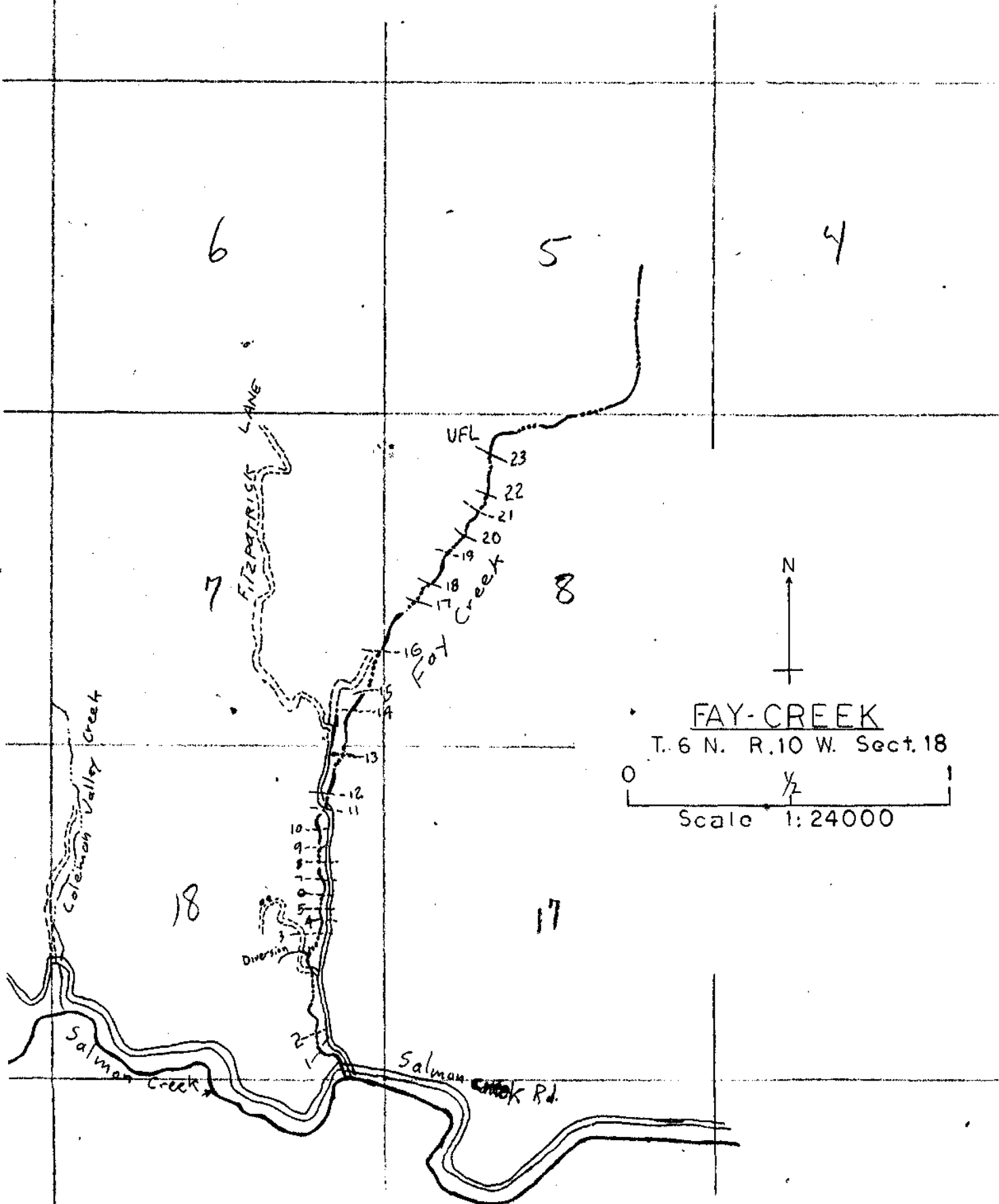
IMPROVEMENTS - Removal of 23 log jams.

GENERAL ESTIMATE - Fay Creek offers roughly 2.5 miles of good spawning and nursery grounds for Salmonids. Due to an excess of silt and a lack of sufficient flow, this stream is not as productive as one would expect. Clearance of the log jams should produce two-fold effects: flushing out of silt in the substrate, and better access for migrating Salmonids.

RECOMMENDED MANAGEMENT - Removal of 23 log jams - 6 complete blocks and 17 incomplete, but potential blocks.

SKETCH MAP - Attached.

REFERENCES AND MAPS - U.S.G.S. 7 1/2 minute series (Bodega Head Quad.) 1943.  
Scale: 1 to 24000. U.S.G.S. 15 minute  
series (Sebastopol Quad.) 1954. Scale: 1 to 62500.



FAY-CREEK

T. 6 N. R. 10 W. Sect. 18



Scale 1:24000

## LOG JAM DIMENSIONS: FAY CREEK

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- \*1 - 20x20x5
- \*2 - 6x15x3
- \*3 - fence with 3/4 in. cables.
- \*4 - 20x15x5
- \*5 - 15x15x3
- \*6 - 10x15x4
- \*7 - stump end logs 5x10x3
- \*8 - 100 ft. loose logs.
- \*9 - 5 ft. diameter stump.
- \*10 - 10x20x3
- \*11 - logs against bridge.
- \*12 - 50 ft. fallen elders & 15x15x5 jam.
- \*13 - 10x20x3
- \*14 - 15x15x6
- \*15 - fence with 1/4 in. cable.
- \*16 - 30x50x6
- 1? - 60x40x15
- 18 - 20x20x8
- \*19 - 35x30x6
- 20 - 20x15x6
- 21 - 20x30x10
- 22 - 75 ft. loose logs. with a 35x50x6 jam.
- 23 - 40x30x5
- UFL - steep gradient.