

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF FISH AND GAME

STREAM SURVEY

NAME: FRASIER CREEK **COUNTY:** Sonoma
STREAM SECTION: Partial **FROM:** Confluence of Big Sulphur Creek **TO:** Approx. 2 mi. **LENGTH:** 2 mi.
TRIBUTARY TO: Big Sulphur Creek, hence Russian River **TWP:** 11N **R:** 9W **SEC:** 6
OTHER NAMES: Unknown **RIVER SYSTEM:** Russian River
SOURCES OF DATA: Personal observations of Bruce Thomson and Jim Michaels

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 - The stream was surveyed on foot on August 9th, 1968.

RELATION TO OTHER WATERS - Frasier Creek is a minor tributary to Big Sulphur Creek, contributing both summer and winter flow. The stream contains fair spawning and good nursery area for steelhead.

GENERAL DESCRIPTION - (AND IMMEDIATE DRAINAGE BASIN) Frasier Creek drains approximately 4 square miles of mountainous terrain to the North of Big Sulphur Creek. The stream flows through a V-shaped canyon discharging in a southeast direction. The vegetative cover is primarily oak, with scattered grass clearings. Streamside vegetation is composed primarily of oak, alder, and bay. Approximately 3/4 of the stream is covered by an overhead vegetative canopy. Soil in the drainage was considered rocky.

Altitude - Ranges from approximately 800 feet near the confluence of Big Sulphur Creek to about 2,000 feet in the headwaters.

Gradient - Approximately 10 feet per 100 feet of stream.

Width - The average width was about 4 feet and ranged from 1 foot to about 9 feet.

Depth - The average depth was about 6 inches and ranged from 1 inch to 3 feet.

Flow - A flow of 0.66 c.f.s. was recorded in Frasier Creek 1/4 mile upstream from the confluence of Big Sulphur Creek, A

flow of 0.54 c.f.s. was recorded near the headwater. Both of these flows were obtained by the float method.

Velocity - Stream flow was generally rapid throughout the surveyed section.

Bottom - 50% boulders, 25% gravel, 15% rubble, 5% sand, and 5% silt.

Spawning Areas - Approximately 20% of the stream appeared suitable for steelhead spawning.

Pools - Average 6 feet by 4 feet by 2 feet deep. Generally short and narrow. [sic] frequency is approximately 25% pools and 75% ripples.

Shelter - Composed primarily of undercut banks, boulders and small [sic] log debris.

Barriers - A series of small falls was found 1 1/2 miles upstream from Big Sulphur Creek. The falls were generally believed to be passable to steelhead. However, no fish were found in the waters upstream.

Diversions - None observed.

Temperatures - Air temperature 77°F. Water temperature 65°F. (near Big Sulphur Creek at 11:30 am, temperatures recorded near the falls - Air; 70°F. Water: 63°F.)

Food - Caddisfly larvae were found in numbers of about 20 per square foot of stream. Dragonfly larvae were found in numbers of about 5 per square foot of stream.

Aquatic Plants - Small amounts of algae were observed throughout the surveyed area.

Winter Conditions - The winter high water mark was observed about 3 feet above the present stream flow level.

Pollution - None observed.

Springs - None observed.

FISHES PRESENT AND SUCCESS - Juvenile salmonids (RT-SH) averaging 3 inches and ranging from 2 inches to 6 inches in size were found in numbers of approximately 75 per 100 feet of stream. Suckers averaging 4 inches and ranging from 1 inch to 6 inches in size, were found in numbers of about 5 per 100 feet of stream. Suckers were observed only in the first ¼ mile of stream. All fish appeared to be in good condition.

OTHER VERTEBRATES - Snakes, frogs and salamanders.

FISHING INTENSITY - None observed.

ACCESSIBILITY - Frazier Creek is crossed by The Geysers Road.

OWNERSHIP - Private.

POSTED OR OPEN - The stream is posted against trespass and hunting.

IMPROVEMENTS - None observed.

PAST STOCKING - Unknown.

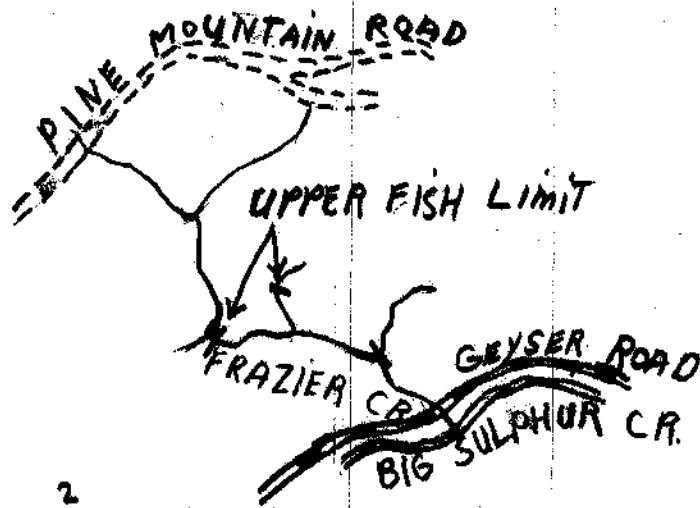
GENERAL ESTIMATE - Frazier Creek is a small tributary to Big Sulphur Creek, contributing about 10% of the summer stream flow in Big Sulphur Creek at their confluence. About 20% of the stream contains gravel suitable for steelhead spawning. The stream contains good nursery area.

RECOMMENDED MANAGEMENT - Frazier Creek should be managed as a steelhead spawning and nursery area.

REFERENCES AND MAPS - USGS - 15 minute series, Chelseyville Quadrangle-1959.

JM:ka

SKETCH MAP
FRAZIER CREEK



0 1 2
SCALE IN MILES

