

**CALIFORNIA DEPARTMENT OF FISH AND GAME  
STREAM SURVEY**

FILE FORM No \_\_\_\_\_

NAME BULLOCK CREEK COUNTY Mendocino  
 STREAM SECTION \_\_\_\_\_ FROM WEST BR.  
INDIAN CREEK TO Gschwend Creek LENGTH ¾ mi.  
 TRIBUTARY TO West branch of Indian Creek TWP 14N R 14W SEC 5  
 OTHER NAMES Not known RIVER SYSTEM Navarro River  
 SOURCES OF DATA Judge Tindall of Navarro and personal observation

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  
 Water 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 - Bullock Creek was walked out from confluence of West Branch upstream to the confluence of Gschwend Creek, a distance of approximately 0.75 mile between 1200 and 1500 hour on August 7, 1962 by Bob Keller and Dick Moore.

LOCATION - Bullock Creek is located approximately 2 miles north of Philo, and approximately 8 miles northwest of Booneville.

RELATION TO OTHER WATERS - Bullock Creek is the major tributary to West Branch Indian Creek which contributes summer flow and winter runoff to the lower Indian Creek drainage, Anadromous fishes do not enter Bullock Creek due to barriers downstream on West Branch, Salmonids believed to be resident rainbow trout are present in the lower 750 ft, of Bullock Creek.

GENERAL DESCRIPTION - Watershed - Bullock Creek is located in a small typical redwood type watershed.

Immediate Drainage Basin - Bullock Creek is approximately 2 miles long and drains an area of approximately 2½ square miles. It is joined in the middle section by Gschwend Creek and flows in a southerly direction to join West Branch Indian Creek. Bullock Creek is located in a narrow V-shaped canyon with scarce vegetation due to past logging.

Altitude - Confluence of West Branch 750 feet, at Gschwend Creek 1050 ft.

Gradient - 3.1 feet per 100 feet.

Width - Riffles averaged 1 1/2 feet, range to 6 feet, Pools average 4 feet, range to 10 feet.

Depth - Riffles average 1 inch, range to 3 inches. Pools average 6 inches, range to 1 foot.

Velocity - Sluggish to slow throughout section surveyed.

Flow - Less than 1/3 cfs at Gschwend Creek, approximately 1/2 cfs at confluence of West Branch,

Bottom - Estimated 30% rubble, 30% gravel, 10% bedrock, 10% boulder, 10% sand, 10% silt. Riffles mainly result of gravel-rubble-silt overburden. Pools resulting from log jams and some bedrock areas. Heavy overburden common throughout lower section.

Spawning Areas - Appear poor to fair. Recent logging has silted spawning beds in lower section.

Pools - Fair. Result from some bedrock areas and some log jams. Pools in approx. 10% of stream,

Shelter - Poor. Little stream side vegetation, some log jams and few boulders with overburden present limit available shelter.

Barriers - One barrier, approximately 0.2 mile upstream composed of bedrock, boulders, slide and logs. No fish present upstream from barrier (see barrier survey).

Diversions - None noted.

Temperatures -Water 61 F., air 68 F. at 1400 hour on August 7, 1962. Weather was high overcast with occasional drizzle.

Aquatic Plants - No aquatic plants present downstream from Gschwend Creek.

Food - Caddis fly larvae and mayfly nymphs present to abundant. Other aquatic insects also present in limited numbers.

Winter Conditions - Appear mild. Debris on banks indicate riffle areas increase in flow from 2 to 12 inches in depth.

Pollution - Due to logging. Entire stream contains logging debris from logging prior to 1957. The lower 750 feet contains logging debris of 1962 season.

Springs - Scarce, Normally scarce during this season.

FISHES PRESENT AND SUCCESS - Salmonids believed to be resident rainbow trout present in lower 750 feet of stream. No fishes present in upstream section. Size range from 2 to 7 inches width. Smaller fish predominated. Fish appear scarce, being fewer than 30 per 100 foot of stream. Success appear poor to fair and fish appear very active or spooky.

OTHER VERTEBRATES - Frogs, snakes, coons and deer are present.

FISHING INTENSITY - Believed mild to very mild as indicated by little used trail and no human refuse.

OTHER RECREATIONAL USE - Hunting is the only other major recreational use of this area.

ACCESSIBILITY - Recommend obtaining access information from local residents in Philo. Accessible from road in Philo, See area survey map. Travel time from Ukiah 1 1/2 hours, from San Francisco 4 hours.

OWNERSHIP - Albert A. Elmer of 777 Walnut Avenue, Ukiah.

POSTED OR OPEN - This area posted to public access.

IMPROVEMENTS - No improvements have been made on this stream. Logging debris in stream has been pushed aside with bulldozer but not removed from streambed.

PAST STOCKING - It is believed by the surveyor that no past stocking has been conducted on this stream.

GENERAL ESTIMATE - This stream heads in an inter-coastal second growth redwood area. Slopes and channel are steep V-sided. Streambed contains excess of overburden from present and past logging. Fishery value of this stream is limited by barriers (6 located downstream on West Branch Indian Creek and one located 750 feet upstream on Bullock Creek). However, they appeared few in number. Fish present are believed to be resident rainbow trout. Entire stream contains little shade, very little shelter and an abundance of overburden composed of sand and silt.

RECOMMENDED MANAGEMENT - Recommend management of this stream as a resident rainbow trout stream. Recommend catching resident rainbow trout from stream and planting them upstream above barrier. Recommend to continue to check on logging damage in stream periodically. Recommend no minimum water requirements in regards to water rights due to slow water condition during summer months and small fish population present,

SKETCH MAP - See attached.

REFERENCES AND MAPS - USGS Booneville quadrangle 15-minute series 1959.

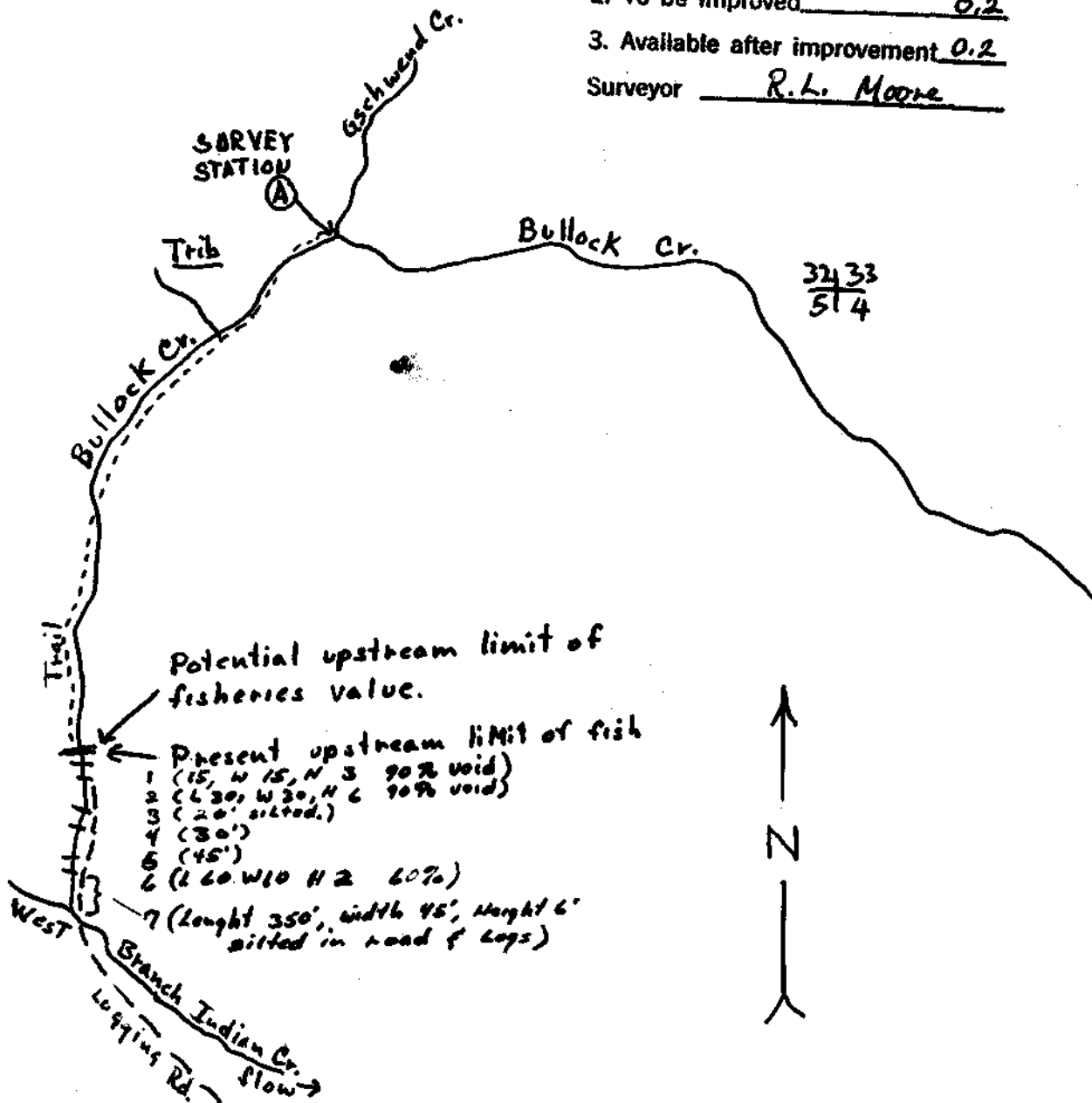
# BULLOCK CREEK

T14N R14W Sec. 5

Spawning and Nursery Area in miles

1. Now satisfactory for SH & SS 0.0
2. To be improved 0.2
3. Available after improvement 0.2

Surveyor R. L. Moore



$\frac{32433}{514}$