CALIFORNIA DEPARTMENTO OF FISH AND GAME

STREAM SURVEY FILE FORM NO.....

NAME.....CAMP CREEK.....COUNTY..MENDOCINO.....
STREAM SECTION..ENTIRE... FROM.....mouth.....To...headwaters.....LENGTH.....8½ MI.....
TRIBUTARY TO.....Rancheria Creek.....TWP...13N..... R...14W.....SEC...21..
OTHER NAMES.....Not known.....RIVER SYSTEM.....Navarro River.....
SOURCES OF DATA.....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**
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  - **Diversions**
  - **Temperatures**
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  - **Aquatic Plants**
  - **Winter Conditions**
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  - **Springs**
- FISHES PRESENT AND SUCCESS
- OTHER VERTEBRATES
- FISHING INTENSITY
- OTHER RECREATIONAL USE
- ACCESSIBILITY
- OWNERSHIP POSTED OR OPEN
- IMPROVEMENTS
- PAST STOCKING
- GENERAL ESTIMATE
- RECOMMENDED MANAGEMENT

EXTENT OF OBSERVATION - Lower 6½ miles were walked out on Sept. 25, 1962 by Bob Keller and Dick Moore. The upper 2 miles were walked out by Dick Moore on Oct. 17, 1962.

LOCATION - Camp Creek is located in the inter-coastal redwood-fir transition area. The stream heads approximately 4 miles south of Boonville. It flows west 2½ air miles and then north 2 air miles to join Ranchreia Creek.

RELATION TO OTHER WATERS - Camp Creek is an important nursery and spawning tributary to Rancheria Creek. It also contributes summer and winter flow to Rancheria Creek and downstream areas.

GENERAL DESCRIPTION - Watershed & Immediate Drainage Basin -Camp Creek is located in the inter-coastal redwood fir forest area. The watershed forms a steep V-sided canyon with a slight downstream gradient. Vegetation is redwood, fir and deciduous trees with oak and grass on southern slopes. The watershed is about 6 miles square. The overall drainage averages approximately 1¼ miles wide and/or 1/2 mile long . The stream travels approximately 6 miles in a westerly direction to join German Creek thence 2½ miles north to join Rancheria Creek. The canyon is moderate to deep V-shaped. The channel is incised in some areas. Stream side vegetation is abundant in upper section consisting of various sedges, mainly wire grass. Stream side vegetation is scarce in lower section due to recent logging.

Altitude - 535' at mouth, 1030' at headwaters.

Gradient - Overall gradient 1.2'/100'. Gradient is slight in lower and headwater section. Gradient becomes moderate where the canyon is cnstricted.

Width - Riffle averaged 4', ranged from 2' to 12'. Pools averaged 6', ranged from 3' to 20'.

Depth - Riffles averaged 2"; ranged from 1" to 6". Pools averaged 6"; ranged from 2" to 18".

Flow - Summer minimum flow estimated at 2/3 cfs downstream from German Creek and 3/4 cfs upstream from mouth of Camp Creek. Winter maximum flow estimated to exceed 18" in depth downstream from German Creek and 2' in depth at mouth from Camp Creek. Flow 5 days following the 6" to 10" rain, estimated 2½ to 3 cfs at mouth of Camp Creek 2½ to 3 cfs downstream from German Creek.

Velocity - Summer flow velocity was slow to sluggish. Winter flow was slow to rapid.

Bottom - Consisted of 50% to 65% pool and 40% to 35% riffle. Upper stream section estimated at 30% bedrock, 30% silted gravel, 5% gravel, 35% others. Lower section estimated at 60% overburden, 10% bedrock, 20% silt, etc., and 10% others. Riffles consisted of higher percentages of bedrock and gravel. Pools contain more overburden and silted gravel. Pools downstream from German Creek contained approximately 90% overburden, 10% being bedrock, slash and gravel.

Spawning Areas - Fair to good; 90% of the gravel is packed, silted gravel. Good spawning gravel less than 3% of stream bed, fair spawning gravel, 5% poor spawning gravel, 15% of stream bed. Overall spawning area 23%.
Pools - Appeared good in upper section consisting of some undercut banks and log debris. Pools in lower section considered fair, as a result of scouring, log jams. Quality of pool limited because of overburden in area and lack of shelter. Pools consist of 60% to 65% of stream being more extensive downstream from German Creek. Averaged 6' across 15' long and 6" deep. Pools in upper section are smaller and deeper. Pools in lower section are longer, wider and also fairly shallow with little shelter.
Shelter - Good in upper section consisting of bedrock pools, overhanging terrestrial plants and debris. Good to fair in lower section consisting of winter scouring, logging debris. Lower section has little stream side or pool shelter.
Temperature -On Sept. 25, 1962 prior to unseasonal rain, in lower section water temperature varied between 65° F. to 70° P.; air at 76° F. to 80° F. Weather was clear and sunny. On Oct. 17, 1962 five days following a 6 to 10" rain in upstream section water temperature 50° F. air 58°F to 40° F. at 1230 to 1330 hour.
Food - Caddis fly larvae plentiful, mayfly nymphs present, stonefly and other aquatic insects scarce.
Aquatic Plants - Scarce* Green filamentous algae present. Bryozoa present throughout bedrock area.
Winter Condition - Fairly mild. Depth of flow exceeds 18" in midsection and 3' downstream from German Creek. Indications are results of debris on banks.
POLLUTION - Extensive pollution from result of logging during 1961 season downstream from German Creek watershed. Approximately % mile upstream from German Creek, a minor tributary is being logged during 1962 season. This may constitute a future pollution problem.
SPRINGS - Scarce before unseasonal rain of October. 2/100' following unseasonal sain.
FISHES PRESENT AND SUCCESS - Three species were noted: RT/SH, suckers and roach. RT/SH averaged 2½", ranged 1½" to 7". Abundance 50 to 55/100' of stream. Success appeared good, condition and natural propagation appeared good. Sucker averaged 3"; ranged from 3½ to 2½". Abundance was estimated at 8/100' of stream. Success, condition and natural propagation appeared good upstream to German Creek, fair upstream from German Creek. Roach averaged 3", ranged from 3/4" to 3½". Roach appeared abundant downstream from German Creek and rare upstream. Averaged throughout 25+ per 100' of stream. Success, condition and natural propagation appeared good for roach. Downstream section fair in area upstream from German Creek. All fishes appeared more plentiful in lower 4 to 5 miles upstream. No suckers or roach were noted 4 miles upstream.
OTHER VERTEBRATES - Frogs, coons, newts, dee, pigeon and quail.
FISHING INTENSITY - Not known. Poaching reported in area by local persons. A private family has a summer camp located in upper Camp Creek area.
OTHER RECREATIONAL USE - Hunting deer, quail, pigeon. Also camping.
ACCESSIBILITY - Downstream area accessible via Mt. View Road from Boonville to Rancheria Creek then up logging road to Camp Creek. Logging road parallels Camp Creek in lower section. Mid-section accessible from Pt. Arena or Signal Hill Road at Mill Creek in the Garcia drainage. Headwater section accessible via logging road at Wyman's Gate on Highway 128 where Rancheria Creek leaves Highway 128. Driving time from Boonville approximately 1/2 hour to all locations. Driving time from San Francisco approximately 3 hours.
OWNERSHIP - Unknown.

POSTED OR OPEN - Area appears not to be posted to trespass.
IMPROVEMENTS - Improvements are needed throughout the stream* Lower 2 miles from mouth to German Creek have large jams present. Stream also contains excess of over-burden and silt. Scattered areas upper 5 miles contain wind falls as a result of mature trees sliding into stream causing log jams. Little recent logging noted in this area. These windfalls should be removed.
PAST STOCKING - Not known.
GENERAL ESTIMATE - Camp Creek has undergone primary and secondary logging. At present the downstream area of Camp Creek is undergoing secondary or tertiary logging. The lower 2 miles are silted with over-burden and jam due to this recent logging. Mid section has several areas of slides with windfalls in stream bed. Both limit use by SH and/or RT. At present the stream is not fully utilized due to silted condition and log jams present. Stream now in process of being cleaned downstream from German Creek by logging concern presently in the area. Under present regulations responsible parties remove log jams from creek but appear to leave excess slash in stream which forms new barriers with winter rain. Present regulations or enforcement are questionable.
RECOMMENDED MANAGEMENT - Recommend management of this stream for RT and/or SH spawning
and nursery. Recommend conducting stream clearance on this stream. Recommend to continue to check for logging damage in the future. Recommend require downstream release of 1/2 cfs in area upstream from German Creek to Milk Ranch (see map). Recommend require downstream release of 3/4 cfs in area downstream from German Creek during period May 1, thru December 1.
SKETCH MAP - See attached.
REFERENCES AND MAPS - USGS 15-minute series topographic map, Boonville and Hornborn 1959.
USGS 7½-minute series topographic map Hornborn quadrangle advanced sheet 1960. Only advanced sheet USGS maps are up-to-date. These maps do not contain logging roads.
Richard Moore/cd 1-25-63

Camp Creek

T13N R14W Sec. 21

24 (15')

25 (Slide filling ½ of streambed.) No wood material

26 (70')

27 (Slide 2 stumps.)

28 (2')

29 (6')

30 (150' Jam 95% void.)

31 (Silted Jam 40')

32 (2 4' logs partial Jam.)

33 (5' log(key) plus 30'x60'x8' silted Jam) intermittent flow upstream

34 (2 logs 4' dia meter.)

35 (4' 2 logs)

36 (20')

37 (30')

38 (15')

39 (20')

40 (25')

41 (20')

42 (15')

43 (20')

44 (28')

45 (50')

46 (15')

47 [100'x20'x8' 50% void 5' drop in streambed 5 trees 3'+ in diameter.]

48 (25')

49 (15')

50 (20')

51 (100')

52 (70') Bedrock No wood material.

53 (120' loose logs to 3' dia.)

54 (80' slide) wood material

55 (50'x30'x5' 50% void.)

56 (2 3' trees in stream)

57 (3' bedrock falls 60° incline. good pools at top and bottom)

58 (120' slide.) Wood Material

59 (30'x20'x10' 80% void.)

60 (100' slide.) Wood Material

61 (50' silted-slide.) wood Material

62 (50' silted-slide.) Wood Material

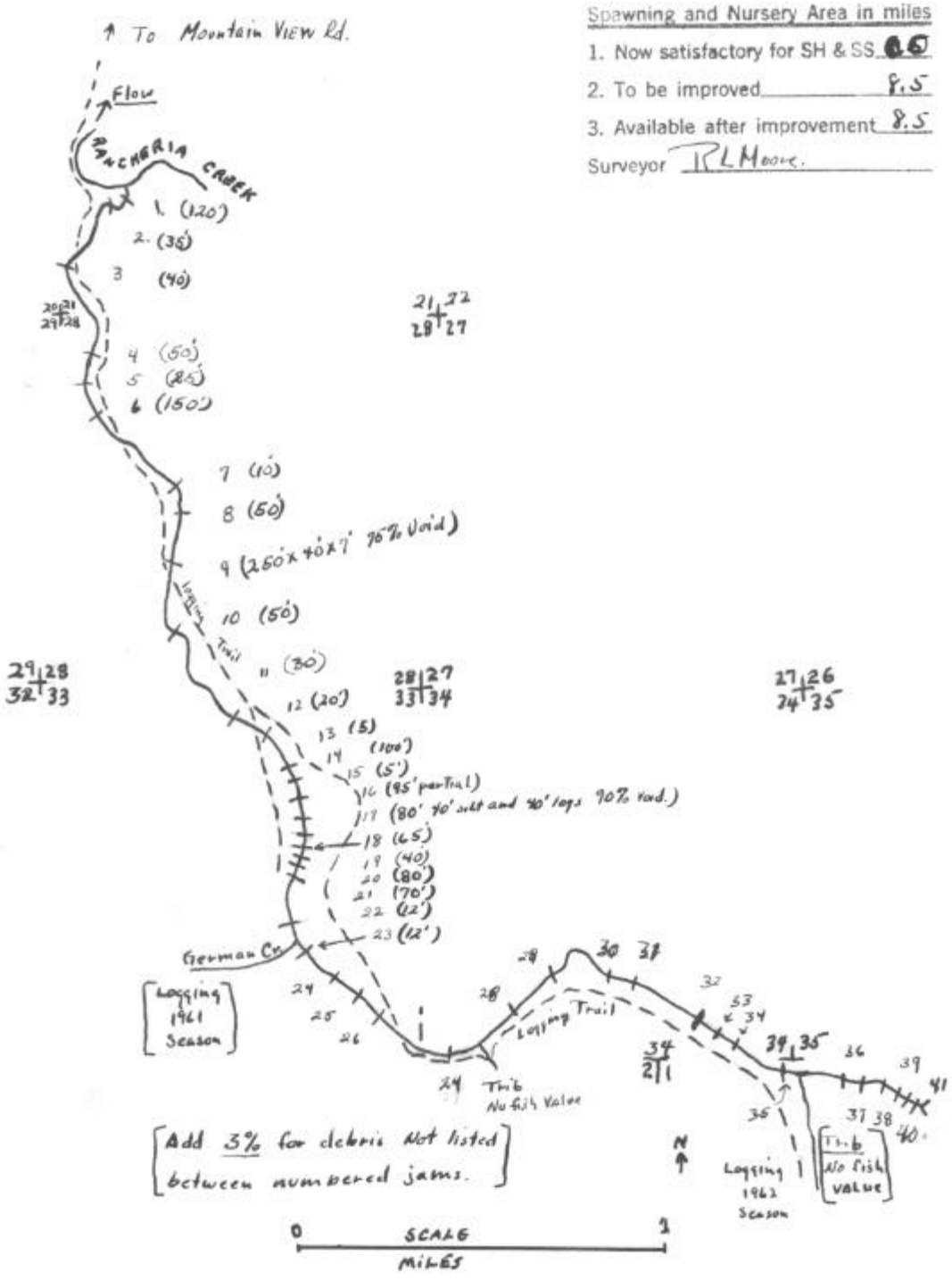
CAMP CREEK

T13N R14W SEC.21

Spawning and Nursery Area in miles

1. Now satisfactory for SH & SS 0.0
2. To be improved 8.5
3. Available after improvement 8.5

Surveyor R L Moore.



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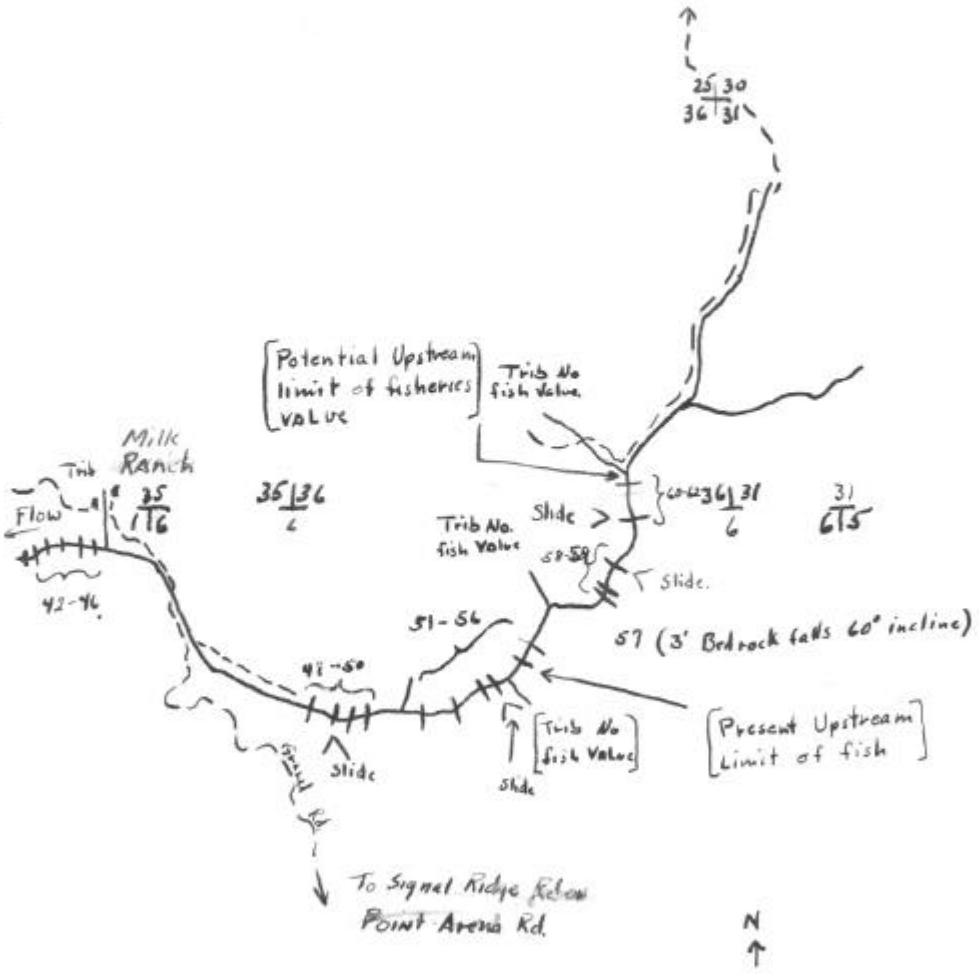

Add 3% for debris not listed between numbered Jams.

SCALE
0 1
MILES