

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

FILE FORM No _____

NAME Beasley Creek COUNTY Mendocino

STREAM SECTION Entire FROM Mouth TO Headwaters LENGTH 1.5 mi.

TRIBUTARY TO Rancheria Creek TWP 13N R 13W SEC 32

OTHER NAMES Not known RIVER SYSTEM Navarro River

SOURCES OF DATA Personal Observation and personnel at mill near Beasley Creek

- EXTENT OF OBSERVATION
- Include Name of Surveyor, Date, Etc.
- LOCATION
- RELATION TO OTHER WATERS
- GENERAL DESCRIPTION
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- Width
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EXTENT OF OBSERVATION - This stream was walked out by Bob Keller and Dick Moore from the mouth upstream, on foot to the headwaters on Sept. 24, 1962.

LOCATION - Beasley Creek enters Rancheria Creek opposite Highway 128 approximately 4 1/2 air miles southeast of Boonville.

RELATION TO OTHER WATERS - Beasley Creek is a small but relatively important spawning and, nursery stream for RT/SH and possibly SS in the upper section of the Rancheria Creek drainage. This stream contributes winter flow and some underground summer flow to the Rancheria Creek area. Beasley Creek compares favorably with Yale Creek and is superior to Shearing Creek and streams paralleling Shearing Creek.

GENERAL DESCRIPTION - Watershed & Immediate Drainage Basin - Beasley Creek arises approximately 5 1/2 miles southeast of Boonville. Several brandies join in the headwaters and flow in a northerly direction relatively parallel with Rancheria Creek for one mile. This stream then flows northeast, a short distance to enter Rancheria Creek. Beasley Creek has a good second and/or third growth redwood stand in. headwaters area. The mid stream section has relatively steep slopes of grass and inter-mittent brush. This area has porous soil 1 to 8 feet in depth over bedrock shale. Many old and relatively new slash were noted in this area. This area is used for sheep pasture. This drainage is approximately two miles long and 1-1/2 mile wide with 1 1/2 square miles of drainage; the stream channel is bowl-shaped in the headwaters section and incised near its mouth. Overburden is present in the lower section to an estimated depth of 3 to 6 feet.

Altitude - Altitude at mouth, 685 feet, headwaters 1,000 feet.

Gradient - Overall gradient 3.2 feet per 100 feet. Gradient mild in downstream section, moderate in mid and upper section.

Width - Streambed average 15 feet, ranged 2-20 feet; pools averaged 3 feet, ranged 1-6 feet. Riffles averaged 2 inches, ranged 0-1 1/2 feet (riffles scarce).

Depth - Streambed averaged 4 feet ranged 0-8 feet. Pools averaged 1-6 inches. Maximum pool depth 18 inches. Riffles averaged 1/4 inch, ranged 0-1 inch.

Flow - Intermittent throughout stream. Flow less than 0.2 cfs over bedrock area.

Velocity - Sluggish throughout.

Bottom - Bottom in fair to good condition. Material present: silt 60%, sand 15%, gravel 10%, organic debris, bedrock, boulder and rubble the remaining 5%. Bottom fairly consistent throughout with more bedrock upstream and more sand and silt near the mouth.

Spawning Areas - Fair to good, approximately 5-8% of stream. Local residents report good spawning, runs in the stream.

Pools - Poor due to low flows. Pools fair to good during spring flows. At present 90% of the surface flow is pools, 10% riffles. Pools scattered throughout drainage.

Shelter - Shelter poor due to low flows. Shelter appears fair during spring flows due to deeper pools and some overhanging terrestrial plants.

Barriers - One 3-foot barrier approximately one mile upstream. This barrier is composed of boulder and redwood tree roots. Various log jams present. See barrier survey, Navarro River, 1962.

Temperatures - On Sept. 24, 1962, weather fair, sunny in the headwater section, air 81° F, water in riffle area 50° F. One-fourth mile upstream from mouth at 1330 hours in intermittent pool section air was 82° F., water 59° F.

Food - Immature caddis fly, mayfly and some stonefly present in upstream, riffle area. Diptera larvae noted in sluggish, pools in midstream area. Food, appears adequate. Aquatic Plants - Some filamentous algae present. However, aquatic plants rare in the stream.

Winter Conditions - Winter conditions appear moderate, Maximum flow to a depth of 7 feet as indicated by debris on banks and scouring of edges of pools. Pollution - Logging damage is present, in small headwater branches. Numerous slides present in mid-section of stream. These slides due to poor soil overlaying inclined shale.

Springs - Scarce. Reported by local residents to be numerous in wet season.

FISHES PRESENT AND SUCCESS - RT/SH are present. The approximate population is 10 fish per 100-feet, ranging in size 2 to 2 1/2 inches. Success is not known.

Present: fish population appears limited by shelter. Condition of present population is good. Natural propagation, appears to exceed nursery area by several hundred percent. The low stream flow, scarce shelter, appear to limit the nursery capacity of this stream.

OTHER VERTEBRATES - Frogs, salamanders and sheep were noted. Deer and racoon were in evidence.

FISHING INTENSITY - Local residents report pouching becomes fairly intense during steelhead run. Resident trout angling believed nil to scarce.

OTHER RECREATIONAL USE - Hunting believed to be only other recreational use in this area.

ACCESSIBILITY - Accessible through mill yard between Highway 128 and Rancheria Creek. Accessible only when vehicle can ford Rancheria Creek. Travel time from San Francisco approximately 3 hours.

OWNERSHIP - Headwater section owned by Maillaird Ranch, 601 Montgomery Street, San Francisco, phone not listed. Lower section owner Angenetta, McMullen, 923 Mountain Boulevard, Oakland. No phone listed.

POSTED OR OPEN - Posted to trespass.

IMPROVEMENTS - Entire stream needs stream, clearance especially headwater section. Three-foot natural barrier listed previously should also be removed.

PAST STOCKING - Not known.

GENERAL ESTIMATE - Beasley Creek is a small but relatively good spawning area for steelhead. Nursery area is limited. Factors presently limiting production are (1) spawning and nursery limited by barrier approximately 3 feet high and one mile upstream from - mouth; (2) extensive logging debris in Branching headwater section; (3) natural slides due to porous soil overlaying inclined shale resulting in siltation of mid and downstream section; (4) relatively extensive over-burden 3 to 6-foot depth in lower section resulting in intermittent underground, flow and scarcity of pools.

General Estimate (continued)

Despite these handicaps, population of salmonids averages 2 fish per 1 foot of pool area. Over-all stream population, however, is limited to 10 fish per 100 feet of stream bed. This stream is not being fully utilized at present due to low flow. Local residents report flow in this stream is, as at present, not been noted in the past.

RECOMMENDED MANAGEMENT -

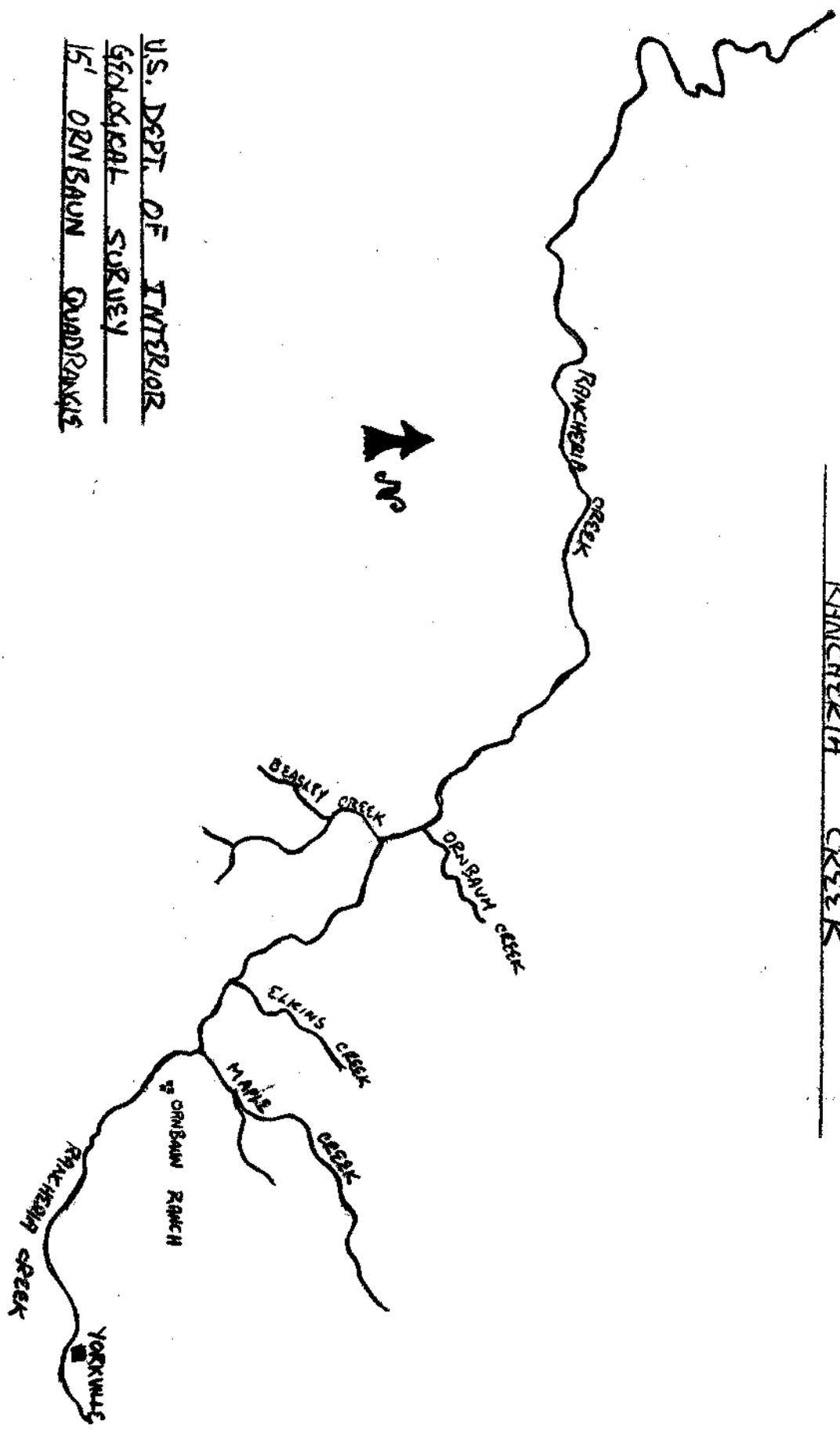
1. Recommend management of this stream for rainbow trout and/or steelhead spawning and nursery
2. Recommend stream clearance of this stream
3. Recommend occasional checks of this area for future logging damage,
4. Recommend downstream flow release in future water applications. These flow releases could exceed 0.2 cfs or enough to maintain nursery pools in the down-stream area.

SKETCH MAP - See attached.

REFERENCES & MAPS - U. S. Department of Interior, Geological Survey 15-minute series topographic map, Ornbaun Quadrangle; U. S. Department of Interior, Geological Survey 7 1/2 minute series topographic map, Ornbaun Quadrangle NE 1/4 advanced sheet, 1962,

Richard Moore/cd
3-15-63

BEASLEY CREEK TRIBUTARY TO
RANCHERIA CREEK



U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
15' ORNBAM QUADRANGLE



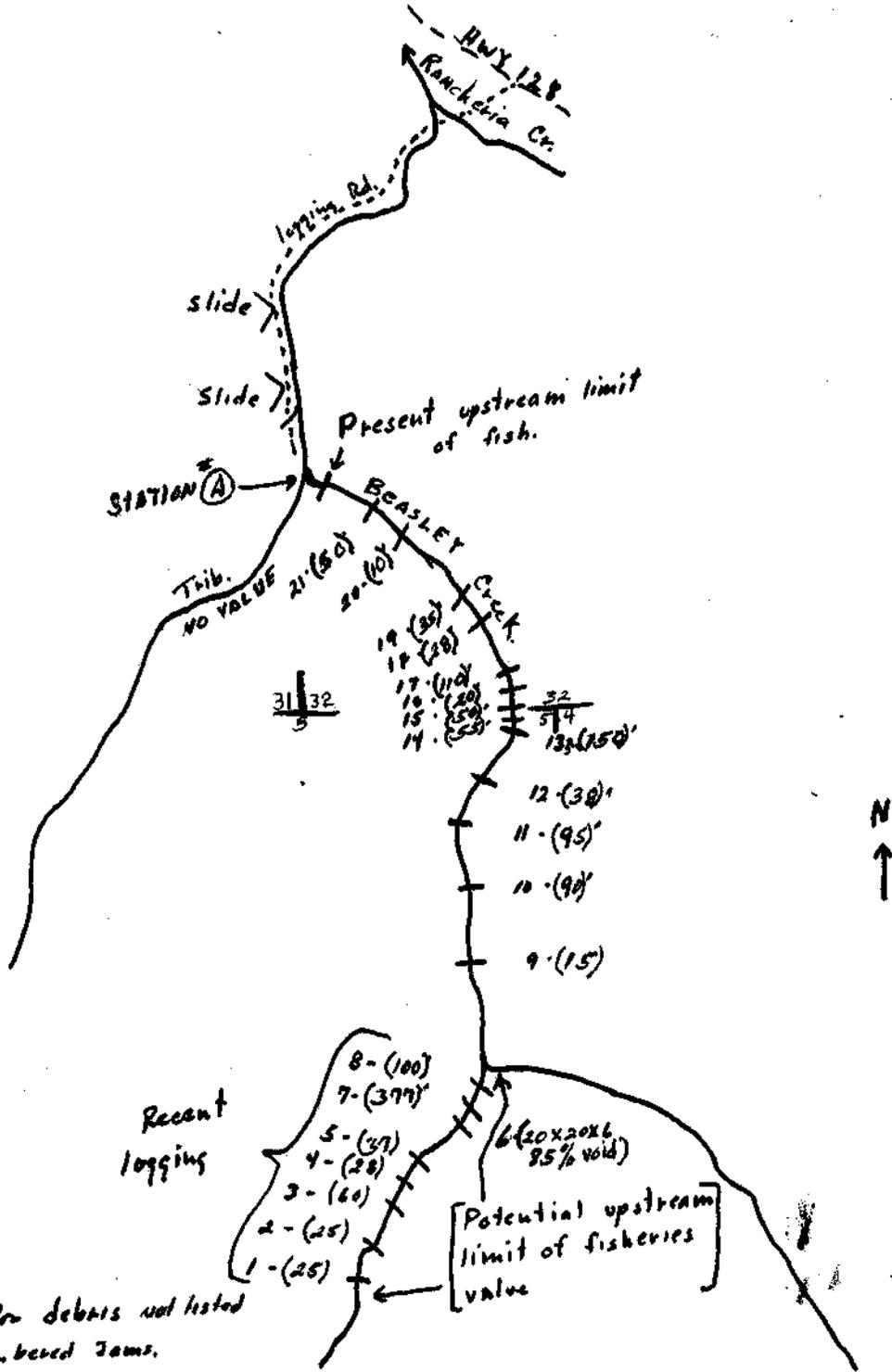
BEASLEY CREEK

T13N R13W Sec. 32

Spawning and Nursery Area in miles

1. Now satisfactory for SH & SS 1.0
2. To be improved 1.9
3. Available after improvement 2.9

Surveyor R. Moore



Add 10% for debris not listed between numbered jams.