

CALIFORNIA DEPARTMENT OF FISH AND GAME

STREAM SURVEY

FILE FORM NO.....

NAME.....Indian Creek.....COUNTY....Mendocino..
 STREAM SECTION .FROM..Confluence of Navarro River upstream..TO headwaters..LENGTH..17 mi.
 TRIBUTARY TO.....Navarro River.....TWP...14N...R...14W...SEC. 19...
 OTHER NAMES.....Not known..... RIVER SYSTEM.....Navarro River.....
 SOURCES OF DATA Personal observation and local residents, Judge Tindall of Boonville
 and Judge June.

EXTENT OF OBSERVATION Include: Name of Surveyor, Date,
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 - This stream was walked out on foot by Robert Keller and R. Moore from the headwaters to the confluence of Navarro River on the following dates: August 7, 10, 13, 14, & 16, 1962.
LOCATION - Flows through the town of Philo on Highway 128. It joins Navarro River approximately 3/4 mile southwest of Philo. The headwaters of Indian Creek is approximately 7 air miles east of Philo. Indian Creek flows in a westerly direction approximately 7 air miles thence southwesterly approximately 3 air miles to join the Navarro River.

RELATION TO OTHER WATERS - Indian Creek is one of four major tributaries to the Navarro River system. It provides spawning and nursery waters for steelhead and possibly silver salmon. Indian Creek contributes summer flow averaging this year to 2 cfs and winter flows for upstream migrating fishes.

GENERAL DESCRIPTION - Watershed - The Indian Creek drainage is typical inter-coast type forest. Redwood predominate in the lower canyons, deciduous brush and trees on the upper slopes and grass on the hilltops. Soil type is a loose gray brown soil from 2 to 4 feet, an average depth.

Immediate Drainage Basin - The entire Indian Creek drainage is approx. 37 sq. miles with approx. 12 sq. miles in the Indian Creek drainage proper, upstream from the North Fork of Indian Creek. Indian Creek flows through a steep to very steep V-shaped canyon to within 2 miles of the confluence of Navarro River. Lower 2 miles flows

out into Anderson Valley which is bowl-shaped valley having scattered timber, orchard and grassland. Stream side vegetation is very scarce. Some oak, maple and bay with scattered alders are present.

Altitude - At confluence of Navarro River 300 ft., headwaters 2000 ft.

Gradient - Overall gradient is 2.75 ft. per 100 ft.. Gradient steeper in headwaters and milder near confluence of Navarro River.

Width - Riffles average 5 ft. range to 20 ft. Pools average 8 ft. range to 60 ft.

Depth - Riffles average 2 inches, range to 6 inches. Pools average 8 inches, range to 5 ft.

Flow - Estimated by float method 1/4 cfs near headwaters, 2 cfs at confluence of North Fork and 2+ cfs at confluence of Navarro River. Summer minimum flow estimated at 1.5 cfs at confluence of Navarro River. Winter flows mild to moderate.

Velocity - Rapid in headwaters, moderate in canyon areas, slow throughout rest of stream.

Bottom - 20% gravel, 20% silt, 15% rubble, 15% boulder, 10% bedrock, 10% sand. Bedrock sections with overburden of boulder and rubble plus gravel 10%. Overburden and silt 30%, gravel 10% and other 20%. Riffles variable upstream from North Fork. Riffles meandering downstream from North Fork, gravel averaging from 1/2 to 1-1/2 inch intermixed with smaller gravel.

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Mendocino County

Spawning Areas - Good spawning areas throughout stream except overburden bedrock area. Good 2-inch gravel upstream from Gut Creek . Gravel loose throughout stream. Spawning area from end to 20% of stream bed.

Pools - Pool development good throughout stream result of winter runoff and log jams present in stream. Frequency approximately 60% of stream bed.

Shelter - Good throughout. Shelter consist of boulder, bedrock, pools and some log jam pools.

Barriers - One large partial barrier midway between North Fork Indian Creek and Parkinson Gulch. Barrier No. 56 on barrier survey map (160 ft. long 70 ft. wide and 20 ft. high). Silted 50% void. This barrier has been burned in place in the past.

Diversions - No direct diversions noted; however, sprinkler irrigation of orchard area by 6-inch aluminum pipe is presently in operation in Anderson Valley area.

Temperature - Water temperature varied on occasions from 67° F. to 71° F. ; water 71° F. air 83 F.; on August 15, at 1300 at confluence of North Fork. 67° F. water at headwaters and mouth at confluence of Navarro River with air 75° F. and 78° F, respectively. Dates were Aug. 7 thru 15, inclusive. Weather was generally clear with possible haze.

Food - Food throughout stream consisted generally of caddis fly larvae, mayfly nymph predominating, other aquatic insects present.

Aquatic Plants - Aquatic plants scarce throughout. Some green filamentous algae in sluggish section.

Winter Conditions - Appear mild to moderate except at Highway 128 bridge, depth maximum 4 to 6 ft.

Pollution - Siltation of stream as a result of logging and road building was noted. Sections seriously affected downstream from Gut Creek to Parkinson Gulch.

Springs - Few springs noted.

FISHES PRESENT AND SUCCESS - Rainbow trout steelhead, roach and stickleback present, RT-SH average 2% inches; range from 2 inches to 2 feet. Fingerling RT-SH average approximately 50 per 100 ft, of stream. Success considered good. Condition of fingerlings considered good, natural propagation considered adequate. RT-SH fingerlings abundant upstream from Gut Creek. Success good from Gut Creek downstream to West Branch. Abundance of roach 500+/100 ft. at Highway 128, 250 to 350/100 ft. at Parkinson Gulch, diminishing upstream to Gut Creek, No roach noted in Indian Creek upstream from Gut Creek. Stickleback abundant in Anderson Valley Area. Stickleback exceed 1000/100 ft, of stream at Highway 128 bridge, decreasing from Anderson Valley upstream to Gut Creek. No stickleback noted above Gut Creek.

OTHER VERTEBRATES - Frogs, snakes, salamanders, coon, deer, turtle are evident.

FISHING INTENSITY - Believed very light upstream from West Branch. Fishing intensity believed light to moderate downstream from West Branch.

OTHER RECREATIONAL USE - Hunting, picnicking and horseback riding plus summer camp activities.

ACCESSIBILITY - Access through Indian Creek in the vicinity of Parkinson Gulch proceed upstream on Indian Creek road, cross Highway 128 from Indian Creek State Park.

Proceed to end of road at farm house approximately 1½ miles, proceed through field up Hillside to connect with Hillside Road. Turn right, proceed to turnaround point and back track. Proceed to cattle guard. Next (left) downhill road. Access to Indian Creek 1.2 miles downstream from West Branch to reach Parkinson Gulch area. Proceed to gate on steep hillside, take next left downhill road to Parkinson Gulch area access to Indian Creek downstream from North Branch.

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Proceed from Highway 128 at Conn Creek via Peachland Road to Wade Ranch, 2.9 miles. Proceed from Wade Ranch to forks in road, 1.4 miles. Turn on left road, proceed to Camp on Indian Creek.

Access to Dick Creek - proceed from Highway 128 at Conn Creek via Peachland Road to Wade Ranch 2.9 miles. Proceed from Wade Ranch to the forks in road, 1.4 miles. Turn on right road, proceed 0.5 mile to Tindall's locked gate. From gate take all left roads (downhill) to Dick Creek 1.2 miles. Necessary equipment 4-wheel drive or non-slip rear end pick-up truck. Ask if key for gate available Judge Tindall, Boonville.

Access headwater section Indian Creek - accessible via Ukiah-Boonville Road at T14N, R13W, Sec. 32, known as Soda Springs or Singley Ranch. Inquire at ranch house for key to gate. Accessible by 4-wheel drive or non-slip rear end vehicle. Proceed through four gates before reach fork. Turn right and proceed downhill to locked gate. Information and key available from Judge June, Boonville, California. Proceed downhill to headwater section of Indian Creek at Judge June's cabin. Driving time 3/4 hour from Boonville-Ukiah Road to 2 hours from Ukiah, 5 hours from San Francisco.

OWNERSHIP - See ownership map attached.

POSTED OR OPEN - Entire section of Indian Creek posted to hunting, area in vicinity of Indian Creek State Park downstream from Highway 128 open to public.

IMPROVEMENTS - None noted. Sections in need of improvement are listed under

Recommendations

PAST STOCKING - Not known.

GENERAL ESTIMATE - Indian Creek is one of four major drainages of Navarro River system. It is a typical coast redwood second growth watershed. Approximately 17 miles of good RT-SH spawning and nursery area are present. Spawning gravel scattered throughout with best gravel upstream from Gut Creek. Spawning gravel averages 12 to 18 percent over entire stream.

Nursery area is good with loose rubble in Anderson Valley section (lower 2 miles). Fish population average fingerlings approximately 50/100 ft. of stream (estimated).

RECOMMENDED MANAGEMENT - Recommend managing this stream as steelhead spawning and nursery area. Recommend instigating proposed stream clearance program. Recommend periodic checks for logging damage. Recommend following minimum flow releases between May 30 to October 30. From the confluence of West Branch downstream to Navarro River 1.5 cfs or entire flow, whichever is less; from North Fork West Branch downstream 1.5 cfs or entire flow whichever is less; from Gut Creek downstream to North Fork 1 cfs or entire flow whichever is less.

SKETCH MAP - See attached.

REFERENCES AND MAPS - U.S. Dept. of Interior geological survey 15-minute series Boonville quadrangle 1959. U.S. Dept. of Interior geological survey 7½ minute series Boonville quadrangle advanced sheet. Masonite Corp. Ukiah, California 1943,

Richard Moore, Seasonal Aid/cd 10-10-62

Indian Creek

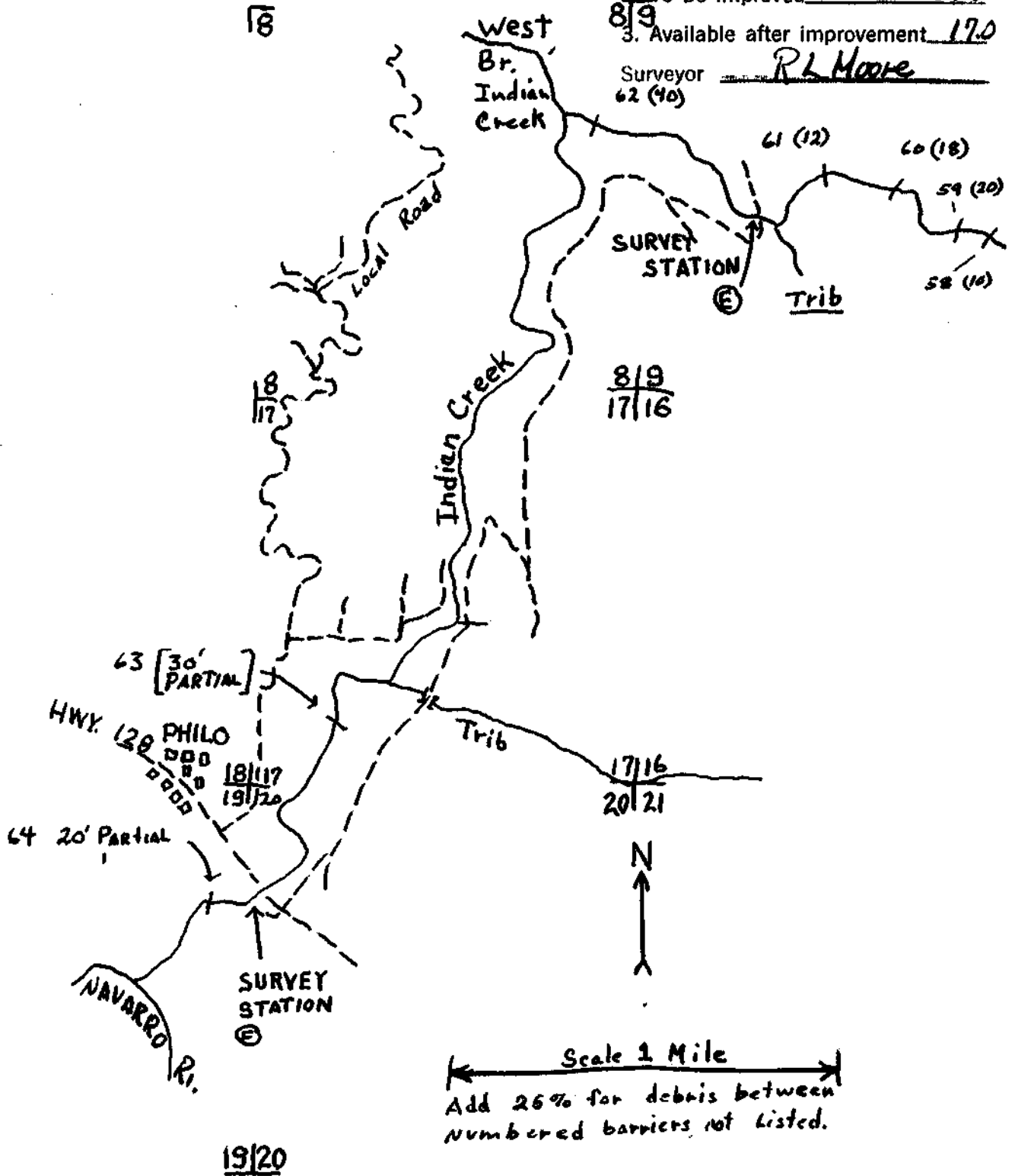
T14N R14W Sec 7

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Spawning and Nursery Area in miles

1. Now satisfactory for SH & SS 0.3
2. To be improved 16.7
3. Available after improvement 17.0

Surveyor RL Moore
62 (40)



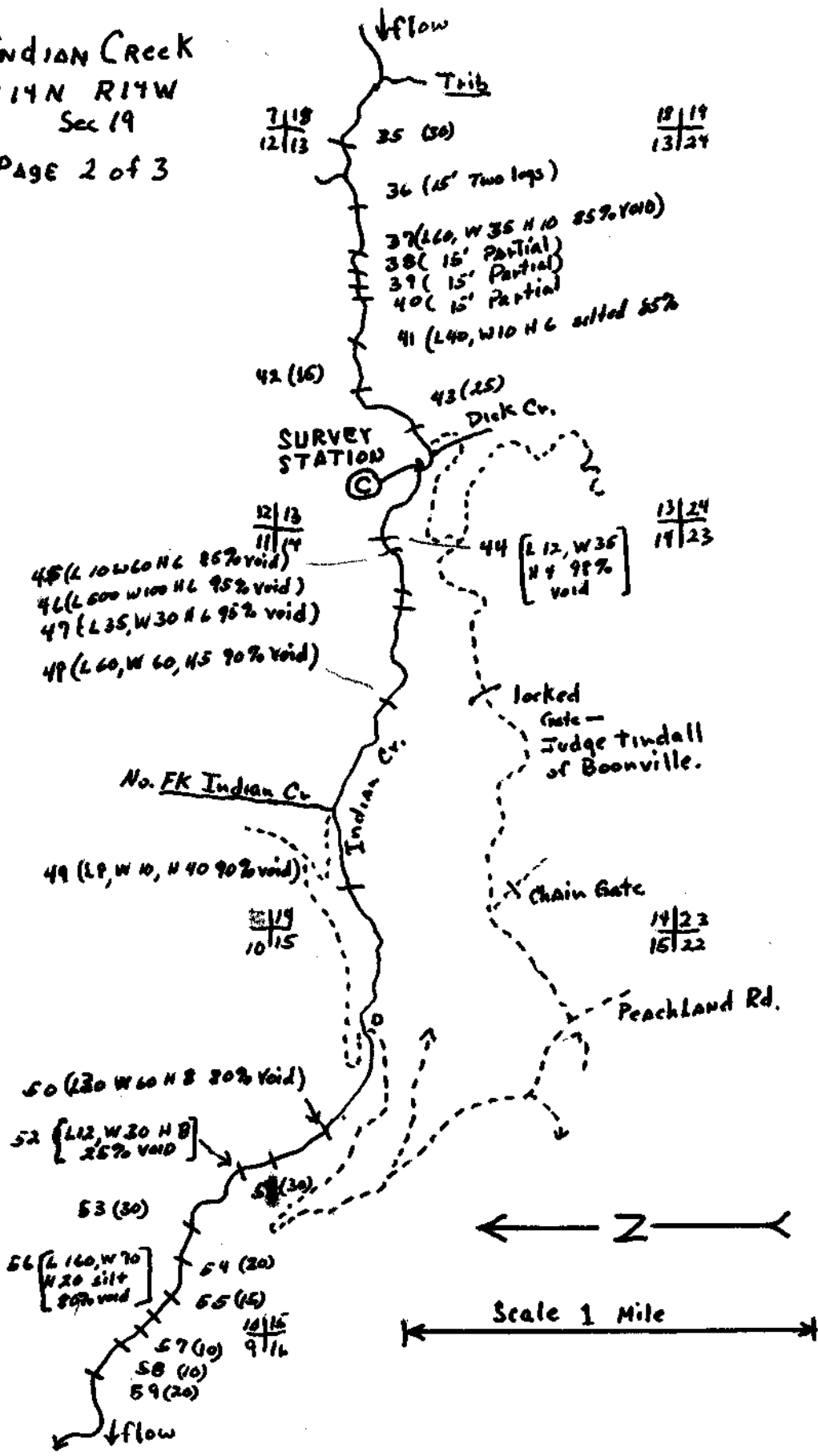
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