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Antelope Lake,
Creel Census 1978

Anglers at Antelope Lake were censused on 29 days, between June 9 and November 4, 1978, by Department of Water Resources Student Assistants and Department of Fish and Game Seasonal Aids. Anglers were interviewed from shore with survey effort concentrated near Antelope Dam. Surveyors recorded the number of anglers in each party, county of residence, hours fished, number and species of fish caught, and the length (to the nearest 1/2 cm FL) for each fish.

We interviewed 792 anglers of which 756 were shore anglers and 36 were boat anglers. The catch per hour for boat anglers was higher than for shore anglers, but due to the small number, boat anglers were included with the shore anglers. Anglers fished 2,324 hours, catching 461 rainbow trout at an average rate of 0.198 trout per hour (Table 1). Rainbow trout ranged in length from 14 to 45.5 cm (5.5 to 18 inches) with most fish between 23 and 35.5 cm (9 to 14 inches). Thirty brown bullhead were also caught at an average rate of 0.013 fish per hour. The brown bullhead ranged in length from 14 to 19.5 cm (5.5 to 7.7 inches). Anglers first reported catching brown bullhead in mid-July, but we did not census any until early August.

We interviewed 34 anglers who had finished fishing. They fished an average of 4.2 hours and caught 0.32 trout per hour (1.3 trout per angler day).

Most of the trout caught were apparently planted in 1977 (those over 28 cm (11 inches), but the 20,500 catchable-sized trout planted in early June 1978 also contributed significantly to the catch (Table 3). A few trout, presumably from the July 18 plant of fingerlings, appeared in September, October, and November. Anglers considered these small fish a nuisance. Unfortunately, fishing for larger fish was poor late in the season. We did not census a number of the small trout and brown bullhead that anglers had released.

Anglers from 35 counties were censused (Table 4). The majority of anglers came from the Sacramento Valley area (35 percent), local counties (24 percent), and San Francisco Bay area (19 percent). The North Coast and Southern California counties provided 14 percent of the anglers and the remaining 8 percent had out-of-state origin (Figure 1).

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TABLE 1
ANTELOPE LAKE, 1978
SUMMARY OF CATCH PER HOUR

<u>Date</u>	<u>Anglers</u>	<u>Angler Hours</u>	<u>Rainbow Trout Caught</u>	<u>Catch/ Hour</u>	<u>Other Fish Caught</u>	<u>Catch/ Hour</u>
June 9	6	17.5	0	0.000	0	
June 13	29	68	16	0.235	0	
June 14	36	108.75	36	0.331	0	
June 16	14	28	14	0.500	0	
June 17	31	94	13	0.138	0	
June 18	27	83.25	14	0.168	0	
June 23	40	128	49	0.383	0	
June Total	183	527.5	142	0.269	0	0.000
July 1	28	150	17	0.113	0	
July 2	97	539	113	0.210	0	
July 3	26	67	11	0.164	0	
July 13	48	125.25	9	0.072	0	
July 15	23	30.5	6	0.197	0	
July 25	31	111.75	30	0.268	0	
July 26	7	22	5	0.227	0	
July Total	260	1045.5	191	0.183	0	0.000
August 6	47	93.75	21	0.224	0	
August 9	69	144	33	0.229	10 BB	0.069
August 17	20	32.75	4	0.122	0	
August 26	25	34.25	4	0.117	0	
August 30	38	82.25	18	0.219	0	
August Total	199	387	80	0.207	10 BB	0.026
September 3	52	150.5	18	0.120	8 BB	0.052
September 4	42	82.5	6	0.073	9 BB	0.109
September 20	9	12.75	1	0.078	0	
September 23	7	17	7	0.412	0	
September Total	110	262.75	32	0.122	17 BB	0.065
October 7	7	20.75	7	0.337	1 BB	0.048
October 8	16	39	0	0.000	2 BB	0.051
October 9	6	14	4	0.286	0	
October 19	7	9.5	2	0.210	0	
October Total	36	83.25	13	0.156	3 BB	0.036
November 2	1	1	0	0.000	0	
November 4	3	16.5	3	0.182	0	
November Total	4	17.5	3	0.171	0	0.000
Total June 9 to Nov. 4	792	2323.5	461	0.198	30 BB	0.013

TABLE 2

LENGTH DISTRIBUTION OF RAINBOW TROUT CAUGHT AT ANTELOPE LAKE, 1978
(inches)

Date	No.	5½	6	6½	7	7½	8	8½	9	9½	10	10½	11	11½	12	12½	13	13½	14	14½	15	15½	16	16½	17	17½	18	18 NM*
Jun 9	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	16	-	-	-	-	-	-	-	1	2	-	-	1	-	3	2	7	-	-	-	-	-	-	-	-	-	-	-
14	36	-	-	-	-	-	-	1	3	2	1	2	-	7	9	10	-	-	-	-	1	-	-	-	-	-	-	-
16	14	-	-	-	-	-	-	-	1	-	-	3	-	1	3	6	-	-	-	-	-	-	-	-	-	-	-	-
17	13	-	-	-	-	-	-	-	1	-	-	-	-	-	-	9	2	-	1	-	-	-	-	-	-	-	-	-
18	14	-	-	-	-	-	-	-	2	-	-	-	-	2	-	1	9	-	-	-	-	-	-	-	-	-	-	-
23	49	-	-	-	-	-	1	-	2	3	-	3	-	5	14	7	1	-	-	-	-	-	-	-	-	-	-	10
Jul 1	17	-	-	-	-	-	1	-	-	-	-	1	1	1	5	1	4	1	1	-	1	-	-	-	-	-	-	-
2	113	-	-	-	-	2	1	1	1	2	2	3	6	4	20	30	13	8	4	3	7	3	-	-	1	1	1	-
3	11	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	2	1	-	-	1	1	-	-	1	-	-	1
13	9	-	-	-	-	-	-	2	1	2	-	-	-	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-
15	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	2	-	-	1	-	-	-	-	-	-	-
25	30	-	-	-	-	-	-	1	2	3	-	1	1	-	4	3	10	1	1	1	-	-	-	-	-	-	-	2
26	5	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
Aug 6	21	-	-	-	-	-	-	1	-	-	1	1	1	1	4	3	4	3	-	-	-	-	-	-	-	-	-	4
9	33	-	-	-	-	-	-	-	-	3	2	2	3	-	-	3	11	2	2	-	-	-	-	-	-	-	-	5
17	4	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
26	4	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-
30	18	-	-	-	-	-	-	-	1	1	3	1	-	1	-	1	3	-	4	-	-	-	-	-	-	-	-	3
Sep 3	18	-	-	-	-	-	-	-	2	4	6	-	-	1	-	1	1	3	-	-	-	-	-	-	-	-	-	-
4	6	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	2	-	1	-	-	-	-	-	-	-	-	-
20	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	7	2	1	1	1	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Oct 7	7	1	1	1	2	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	4	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
19	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Nov 2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	3	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	461	4	4	2	6	5	5	6	18	24	15	17	12	18	52	90	94	21	19	4	11	5	0	0	2	1	1	25

*NM - not measured.

TABLE 3
TROUT PLANTING SUMMARY, ANTELOPE LAKE, 1978

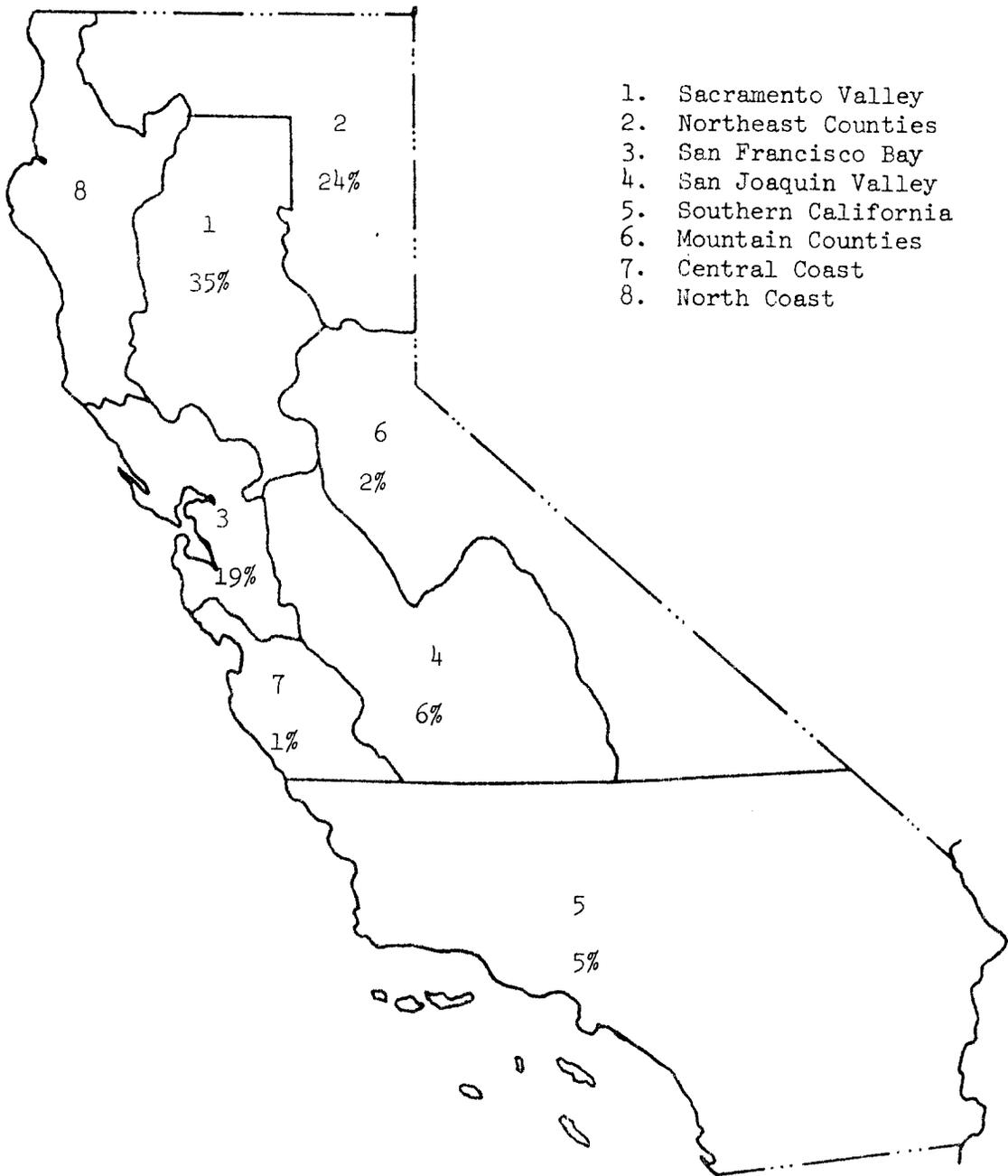
Date	Species	Number	No. per Lb.
June 5	RT-W	11,000	4.4
June 7	RT-W	9,555	3.9
July 18	RT-C	100,000	200
July 25	RT-S	65,000	99
September 6	RT-W	<u>65,000</u>	51
Totals		250,555	

TABLE 4

ANGLER RESIDENCE SUMMARY, ANTELOPE LAKE, 1978

<u>County of Residence</u>	<u>Number</u>	<u>Percent</u>
Alameda	24	3.0
Butte	138	17.5
Colusa	5	0.6
Contra Costa	40	5.1
Fresno	14	1.8
Glenn	6	0.8
Imperial	2	0.2
Kern	5	0.6
Lake	1	0.1
Lassen	149	18.8
Los Angeles	10	1.3
Madera	2	0.2
Marin	4	0.5
Mendocino	1	0.1
Modoc	2	0.2
Napa	23	2.9
Nevada	7	0.9
Orange	3	0.4
Placer	6	0.7
Plumas	39	4.9
Riverside	6	0.7
Sacramento	87	11.0
San Bernardino	8	1.1
San Diego	8	1.1
San Francisco	14	1.8
San Joaquin	30	3.8
San Mateo	6	0.7
Santa Clara	30	3.8
Santa Cruz	5	0.6
Shasta	9	1.2
Solano	8	1.1
Stanislaus	2	0.2
Sutter	6	0.7
Tehama	16	2.0
Tuolumne	4	0.5
Yolo	6	0.7
Yuba	4	0.5
Out-of-State	<u>63</u>	<u>7.9</u>
Total	793	100.0

FIGURE 1



Out-of-State 8%