

TO: Files
 FROM: James B. Richard
 SUB: Upper Letts Lake, Colusa County

Upper Letts Lake has been creel censused on the opening days of the trout season during 1963, 1965 and 1966. The lake was chemically treated in May of 1965 to eliminate the golden shiner population and replanted in June and July with RT-C and RT-F.

A summary of past plantings and creel census data follows by years:

1963 Planting Schedule

1962	RT-F	15,000	July 12, 1962
1963	RT-C	1,000	May 16, 1963
	RT-C	1,100	June 7, 1963
	RT-F	15,003	June 20, 1963
	RT-C	1,238	July 1, 1963
	RT-C	1,253	July 24, 1963

Total 1963

RT-C	4,591
RT-F	15,003

1963 Creel Census Data

<u>Date</u>	<u>No. Anglers</u>	<u>Anglers Hours</u>	<u>RT</u>	<u>Catch/angler hour</u>
May 4, 1963	180	507	692	1.37
May 3, 1963	73	196	139	.71
May 18, 1963	28	97	70	.72

Average length of RT 9.5 inches.

1963 Planting Schedule

March 2, 1964	RT-F	14,000
May 13, 1964	RT-C	1,075
May 18, 1964	RT-C	774
June 5, 1964	RT-C	900
July 2, 1964	RT-C	1,253
July 24, 1964	RT-C	1,250

Total RT-F	14,000
RT-C	5,252

No creel census data for 1964.

1965 Creel Census Data

<u>Date</u>	<u>No. Anglers</u>	<u>Angler Hours</u>	<u>RT</u>	<u>Catch per angler hour</u>
May 1, 1965	205	615	136	.22
May 9, 1965	18	57	3	.05

Average length prior to the treatment 11.3 inches.

1965 Planting Schedule

June 9, 1965	RT-C	1,200	
June 18, 1965	RT-C	1,200	
June 18, 1965	RT-C	1,200	
June 22, 1965	RT-C	2,405	nonschedule plant
July 1, 1965	RT-C	1,403	
July 1, 1965	RT-F	12,006	
Total RT-C		7,408	
RT-F		12,006	

Due to the poor creel census returns for the opening day of trout season in 1965, the lake was chemically treated during May, detoxified and re-planted with RT-C by June 5, 1965. The fingerlings planted in 1965 began entering the catch during September and October of 1965 and are expected to provide the bulk of the angling during the early part of the season in 1966.

Chemical Treatment

Letts Lake has an area of 33.2 acres and a volume of 319 acre feet. The lake was chemically treated on May 20, 1965 with 130 gallons of ProNoxfish (.05 ppm) and detoxified with 1,760 pounds of KMNO4 on May 27 and June 2, 1965.

After the chemical treatment, the dead fish were picked up and removed from the lake. It is estimated that 2,450 pounds of golden shiners were removed. There were probably about 1,500 pounds that were not picked up. We observed about 50 RT and two EB. Several smaller EB were seen.

Cost of Chemical Treatment

Materials:

Cost of ProNoxfish 130 gallon @ \$3.02/gallon	=	\$392.60
Cost of KMNO4 1,760 pounds	=	818.40
Chemical costs	=	\$1,211.00

Labor:

Treatment phases - ProNox & KMNO4	=	\$414.00
Field Data - netting, live cars, etc.		276.00
Planning		140.00
Labor		830.00

Total Costs - Material and Labor \$2,041.00