

FILE

JOB COMPLETION REPORT

As required by

FEDERAL AID IN FISHERIES RESTORATION ACT

TEXAS

Federal Aid Project No. F-2-R-9

FISHERIES INVESTIGATIONS AND SURVEYS OF THE WATERS OF REGION 2-B

Job No. B-24 Fisheries Resurvey of Lakes Inks and Buchanan

Project Leader: John G. Wood

Ass't. Project Leader: Richard L. White

H. D. Dodgen
Executive Secretary
Texas Game and Fish Commission
Austin, Texas

Marion Toole
D-J Coordinator

Eugene A. Walker
Director, Program Planning

April 6, 1962

ABSTRACT

Lakes Inks and Buchanan were resurveyed during the segment. Submerged vegetation, notably Myriophyllum sp., continues to be a major problem on Lake Inks. A lake drawdown during February-March, 1962 is scheduled in the hope that the growth will be retarded during the year. Some increase in relative abundance of gizzard shad over previous segments was noted for the lake. This, combined with poor angling success, is responsible for the scheduling of a selective rotenone treatment of Lake Inks during the drawdown mentioned above. Rough fish species (as listed in the body of the report) were found to constitute over 73 per cent of numbers and 85 per cent of weight of fish netted in Lake Inks.

Rough fish species constituted 80 per cent of number and 86 per cent of weight of fish netted from Lake Buchanan. Despite the large population of rough fish, the lake supports a large sport fishery, with trotlining for the catfishes probably most popular. Evidence of heavy siltation in the upper lake was observed.

This job will be continued on Lake Inks to aid in evaluating both the proposed selective treatment with rotenone and the experimental removal of rough fish under Job E-6.

JOB COMPLETION REPORT

State of TEXAS

Name: Fisheries Investigations and Surveys of
the Waters of Region 2-B.

Project No. F-2-R-9

Title: Fisheries Resurvey of Lakes Inks and
Buchanan.

Job No. B-24

Period covered: February 1, 1961 - January 31, 1962

Objectives:

To conduct fisheries resurveys of Lakes Inks and Buchanan regarding the fish species present, their relative abundance and the ecological factors influencing their distribution.

Procedure:

Physical and chemical data are available for Lake Buchanan, located in Burnet and Llano counties, under Job B-13, F-2-R-2 and F-2-R-3 (basic inventory), and for Lake Inks, located in Burnet County, under Job B-14, F-2-R-3 and F-2-R-4 (basic inventory). During the period of this resurvey, efforts were made to note physical changes and other factors which might influence fish distributions, movements, spawning activities and angling success on these impoundments.

Fish samples were collected with 125 foot experimental gill nets. These nets consist of five 25-foot sections ranging between one inch and three inches square mesh, increasing in mesh size by one-half inch per section.

One hundred such nets, at stations established during the basic inventory, were set on Inks Lake. Sets were made during each month of the segment. Lake Inks netting during 1961 is summarized in Table 1. Netting summaries by month are shown in Tables 2 and 3.

A total of 154 experimental nets were randomly set on Lake Buchanan. An effort was made to get lake coverage by dividing the lake into lower, middle and upper sections, and alternately netting within these areas. Sets were made during each month of the segment, except December, but including January of the preceding segment. A summary of this netting is given in Table 4. Monthly netting summaries are shown in Tables 5 and 6.

Netting success in terms of number and pounds of fish per foot of net set is presented in Table 7. A checklist of species mentioned in this report is given in Table 8.

The tables included in this report were compiled from data sheets on which identifications, weights, measurements, and gonadal development were recorded in the field.

Discussion:

Lake Inks

Lake Inks has been netted extensively by project personnel during the past three years. This was done following heavy 1957 floods to obtain data which could be compared to the basic inventory data. It was continued as part of the evaluation of a restocking program and a proposed selective shad kill. The shad kill was cancelled due to high water on Lake Buchanan immediately above. The Inks resurvey was continued through the past segment as a part of the evaluation of Job E-6 (rough fish removal) which was begun last year.

Despite restocking attempts, largemouth bass fishing has steadily declined during the past few years. White crappie fishing is practically non-existent. Both channel and flathead (yellow) catfish are taken in fair numbers, and white bass fishing is good seasonally.

Submerged vegetation, principally Myriophyllum sp., complicates efforts to fish Lake Inks. Many areas of the lake are totally inaccessible to fishermen as a result of this growth. Considerable money is spent, mostly for herbicides, in efforts to clear boat dock approaches and beach areas. The Lower Colorado River Authority, in response to public request, has agreed to lower Lake Inks several feet for a period of approximately two weeks in late February and early March 1962, in an effort to relieve the vegetation problem.

Gizzard shad continued to be the most abundant species in the lake, according to netting samples. Table 1 shows that shad made up 47.88 per cent of number and 10.57 per cent of weight of fish netted during the past segment. This is in line with past years, and indicates some increase over the previous two segments of resurvey. Combined with continued poor angling success, the large shad population is responsible for the re-scheduling of a selective rotenone treatment of Lake Inks in early March 1962, while the lake is lowered as described above. Details of this work will be available under Job 16a35, Project F-14-D-6.

Rough fish, consisting of gizzard shad, longnose gar, smallmouth buffalo, river carpsucker, gray redhorse sucker, carp, black bullhead and freshwater drum, continue to make up most of the netted fish. Comparisons are given below for years from which data is available.

Lake Inks Rough Fish Ratio, 1955-61

	1955	1956	1957	1958	1959	1960	1961
Per cent rough fish (number)	63	78	63	71	65	70	73
Per cent rough fish (weight)	74	74	78	71	74	79	85

The increase from 1959 through 1961 is considered real, since netting data is extensive during that period.

As indicated earlier, an experimental program (Job E-6) was initiated last year on Lake Inks to test methods of selectively removing rough fish.

Lake Buchanan

It was felt that netting data for Lake Buchanan suitable for comparison with the basic inventory was lacking. Accordingly, the lake was netted extensively during the past segment. A comparison of per cent of number and per cent of weight of rough fish, comprising gizzard shad, longnose gar, smallmouth buffalo, river carpsucker, gray redhorse sucker, carp, black bullhead and freshwater drum, for years from which data is available, is presented below.

Lake Buchanan Rough Fish Ratio, 1955-61

	1955	1958	1959	1960	1961
Per cent rough fish (number)	77	61	73	70	80
Per cent rough fish (weight)	77	66	78	82	86

Only the 1955 and 1961 data is extensive, and it is felt that a comparison between these two years reflects a fairly stable ratio, with the increase indicated probably more real than due to sampling error.

A point of interest is that in agreement with the basic inventory of 1955, no blue catfish have shown up in the netting samples from Lake Buchanan. Apparently, this species' range is restricted in the Colorado River system to a point below, Buchanan Dam. It appears likely that Lake Travis is the northernmost boundary and here the species has become greatly reduced in recent years. A few thousand fingerlings were stocked in Lake Inks during 1960, but no catches have been reported to date.

Lake Buchanan continues to support an enormous sport fisheries. Angling success is reportedly good for flathead (yellow) and channel catfish, largemouth bass, white crappie, and white bass. Good strings of two pound white bass are commonly reported in the upper lake during the late winter and early spring. Trotline fishing, for the catfishes, is quite extensive. Most coves and inlets, as well as much of the open shoreline along large areas of the lake, are laced with trotlines and their floats. Trotlines are often cut by other fishermen as they find close-in trolling difficult. Despite constant vigilance by State Game Wardens illegal fish traps, largely selective for catfishes, are common on Lake Buchanan.

Siltation is heavy in upper Lake Buchanan. In the Falls Creek area, where water once stood over fifteen feet deep at 1010 elevation level following impoundment in 1939, it is now difficult to maneuver a small boat over much of the area.

Submerged aquatic vegetation, a serious pest on most Colorado River lakes, presents no problem on Lake Buchanan. Apparently, this is due to a higher average turbidity because of river silt in the upper lake, a granite and gravel bottom in the lower lake, and considerable water-level fluctuation throughout the year.

Recommendations:

No further work, except for occasional reconnaissance, is anticipated for Lake Buchanan during the near future. Good fishing and enormous water volume of the lake preclude development work for the present.

It is recommended that this job be continued on Lake Inks during the coming segment. The data gathered will be utilized in evaluating the rough fish removal experiment (Job E-6). The resurvey data can also be used to aid in evaluating the selective shad kill mentioned earlier in this report.

No other extensive resurveys are planned during the next segment, since a recent re-alignment of Project F-2-R boundaries introduced considerable waters which need preliminary reconnaissance before problem areas can be determined.

Prepared by John G. Wood
Project Leader

Approved by Marion Toole
Coordinator

Richard L. White
Assistant Project Leader

Date April 6, 1962

John E. Tilton
Regional Supervisor

Table 1. Lake Inks Netting Results, 1961.

Species	Number	Per Cent of Number	Weight	Per Cent of Weight
Longnose gar	120	6.03	496.56	21.47
Gizzard shad	953	47.88	244.34	10.57
Smallmouth buffalo	129	6.49	595.69	25.77
River carpsucker	230	11.55	574.57	24.85
Gray redhorse sucker	1	.06	2.00	.09
Carp	17	.85	46.34	2.00
Channel catfish	169	8.49	151.21	6.54
Black bullhead	1	.05	.38	.01
Flathead catfish	5	.25	23.26	1.01
White bass	130	6.54	97.93	4.24
Texas spotted bass	9	.45	6.69	.29
Largemouth black bass	27	1.36	26.40	1.14
Warmouth	15	.75	7.01	.30
Green sunfish	20	1.00	2.78	.12
Redear sunfish	9	.46	1.26	.06
Bluegill	101	5.07	10.23	.44
Longear sunfish	13	.65	1.52	.07
White crappie	35	1.76	14.91	.64
Freshwater drum	6	.31	8.88	.39
Totals	1,990	100.00	2,311.96	100.00

Table 2, Lake Inks Netting Results by Number and Per Cent of Number, Resurvey, 1961.

Common Name	Jan. 1961 No. Per Cent	Feb. 1961 No. Per Cent	March 1961 No. Per Cent	April 1961 No. Per Cent	May 1961 No. Per Cent	June 1961 No. Per Cent
Longnose gar	-- -----	-- -----	5 4.20	23 9.12	23 9.27	26 11.15
Gizzard shad	17 29.82	24 32.00	65 54.62	195 77.38	148 59.68	60 25.75
Smallmouth buffalo	1 1.75	-- -----	2 1.68	3 1.19	6 2.42	48 20.61
River carpsucker	26 45.62	15 20.00	34 28.57	17 6.75	31 12.50	31 13.30
Gray redbreast	-- -----	-- -----	-- -----	-- -----	-- -----	-- -----
Carp	-- -----	-- -----	-- -----	-- -----	4 1.61	4 1.72
Channel catfish	7 12.28	14 18.66	5 4.20	3 1.19	16 6.45	16 6.86
Flathead catfish	-- -----	-- -----	-- -----	-- -----	-- -----	1 .43
Black bullhead	-- -----	-- -----	-- -----	-- -----	-- -----	1 .43
White bass	6 10.53	21 28.00	1 .84	-- -----	2 .81	8 3.44
Texas spotted bass	-- -----	-- -----	1 .84	-- -----	-- -----	1 .43
Largemouth black bass	-- -----	-- -----	4 3.36	-- -----	5 2.01	-- -----
Warmouth	-- -----	-- -----	-- -----	2 .79	1 .41	4 1.71
Green sunfish	-- -----	-- -----	-- -----	1 .40	-- -----	3 1.29
Redear sunfish	-- -----	-- -----	-- -----	-- -----	4 1.61	2 .86
Bluegill	-- -----	-- -----	1 .84	6 2.38	3 1.21	18 7.72
Longear sunfish	-- -----	-- -----	-- -----	-- -----	2 .81	4 1.72
White crappie	-- -----	1 1.34	1 .85	2 .80	3 1.21	2 .86
Freshwater drum	-- -----	-- -----	-- -----	-- -----	-- -----	4 1.72
Totals	57 100.00	75 100.00	100.00	252 100.00	248 100.00	233 100.00

Table 2 continued. Lake Inks Netting by Numbers.

Common Name	July 1961 No. Per Cent	Aug. 1961 No. Per Cent	Sept. 1961 No. Per Cent	Oct. 1961 No. Per Cent	Nov. 1961 No. Per Cent	Dec. 1961 No. Per Cent	Jan 1962 No. Per Cent
Longnose gar	10 7.63	17 9.13	7 4.45	8 5.26	1 .67	--	--
Gizzard shad	39 29.77	94 50.54	48 30.58	64 42.10	88 59.46	88 53.98	23 33.33
Smallmouth buffalo	5 3.82	11 5.92	20 12.74	10 6.58	12 8.11	10 6.14	1. 1.45
River carpsucker	16 12.21	5 2.68	8 5.09	14 9.21	6 4.05	16 9.81	11 15.94
Gray redhorse sucker	--	--	--	--	--	--	1 1.45
Carp	--	4 2.16	2 1.28	2 1.32	1 .68	--	--
Channel catfish	10 7.63	12 6.45	23 14.64	23 15.13	10 6.75	15 9.21	15 21.74
Flathead catfish	--	1 .54	--	3 1.97	--	--	--
Black bullhead	--	--	--	--	--	--	--
White bass	20 15.27	11 5.92	26 16.57	12 7.90	12 8.11	11 6.74	--
Texas spotted bass	1 .76	--	4 2.54	1 .66	--	1 .62	--
Largemouth bass	6 4.58	6 3.22	4 2.55	--	--	1 .61	1 1.45
Warmouth	1 .77	1 .54	2 1.27	2 1.31	1 .68	--	1 1.45
Green sunfish	8 6.10	2 1.07	--	4 2.63	--	1 .62	1 1.45
Redear sunfish	1 .77	--	--	--	--	--	2 2.89
Bluegill	6 4.58	16 8.61	7 4.46	4 2.64	12 8.11	15 9.20	13 18.85
Longear sunfish	4 3.05	2 1.07	--	1 .65	--	--	--
White crappie	4 3.06	4 2.15	5 3.19	4 2.64	4 2.70	5 3.07	--
Freshwater drum	--	--	-1 .64	--	1 .68	--	--
Totals	131 100.00	186 100.00	157 100.00	152 100.00	148 100.00	163 100.00	69 100.00

Table 3. Lake Inks Netting Results by Weight and Per Cent of Weight, Resurvey, 1961.

Common Name	Jan. 1961		Feb. 1961		March 1961		April 1961		May 1961		June 1961	
	Wt.	Per Cent	Wt.	Per Cent	Wt.	Per Cent	Wt.	Per Cent	Wt.	Per Cent	Wt.	Per Cent
Longnose gar	---	-----	---	-----	21.69	15.75	106.27	51.97	139.66	43.97	126.69	26.21
Gizzard shad	5.56	6.67	6.56	10.37	15.25	11.08	38.33	18.74	28.32	8.92	9.58	1.98
Smallmouth buffalo	6.25	7.51	---	-----	9.44	6.85	10.51	5.14	27.14	8.55	211.00	43.66
River carpsucker	60.72	72.94	31.90	50.43	76.27	55.40	43.84	21.45	83.78	26.38	77.38	16.01
Gray redbhorse sucker	---	-----	---	-----	---	-----	---	-----	---	-----	---	-----
Carp	---	-----	---	-----	---	-----	---	-----	8.51	2.68	13.63	2.82
Channel catfish	4.46	5.36	4.44	7.02	4.88	3.55	3.38	1.65	22.02	6.93	14.71	3.05
Flathead catfish	---	-----	---	-----	---	-----	---	-----	---	-----	10.13	2.09
Black bullhead	---	-----	---	-----	---	-----	---	-----	---	-----	.38	.08
White bass	6.26	7.52	19.85	31.38	1.19	.86	---	-----	1.06	.34	6.38	1.32
Texas spotted bass	---	-----	---	-----	1.50	1.09	---	-----	---	-----	.38	.08
Largemouth black bass	---	-----	---	-----	6.76	4.91	---	-----	4.37	1.37	---	-----
Warmouth	---	-----	---	-----	---	-----	.50	.24	.50	.16	1.75	.36
Green sunfish	---	-----	---	-----	---	-----	---	-----	---	-----	.38	.08
Redear sunfish	---	-----	---	-----	---	-----	.13	.07	.50	.16	.25	.05
Bluegill	---	-----	---	-----	.25	.19	.56	.27	.38	.12	3.01	.63
Longear sunfish	---	-----	---	-----	---	-----	---	-----	.26	.08	.44	.09
White crappie	---	-----	.50	.80	.44	.32	.95	.47	1.07	.34	1.69	.35
Freshwater drum	---	-----	---	-----	---	-----	---	-----	---	-----	5.50	1.14
Totals	83.25	100.00	63.25	100.00	137.67	100.00	204.47	100.00	317.57	100.00	483.28	100.00

Table 3 continued. Lake Inks Netting by Weights...

Common Name	July 1961 Wt. Per Cent	Aug 1961 Wt. Per Cent	Sept. 1961 Wt. Per Cent	Oct. 1961 Wt. Per Cent	Nov. 1961 Wt. Per Cent	Dec. 1961 Wt. Per Cent	Jan. 1962 Wt. Per Cent							
Longnose gar	17.51	14.54	47.16	27.05	23.08	10.33	13.94	8.11	.56	.42	-----	-----		
Gizzard shad	9.83	8.17	24.70	14.18	16.78	7.51	22.38	13.03	30.01	22.50	28.08	19.92	8.96	15.33
Smallmouth buffalo	25.01	20.77	45.94	26.36	97.41	43.62	47.33	27.57	59.64	44.72	53.02	37.62	3.00	5.13
River carpsucker	40.89	33.97	11.51	6.60	21.95	9.83	40.77	23.74	14.46	10.84	39.89	28.30	31.21	53.41
Gray redborse sucker	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2.00	3.42
Carp	-----	-----	9.38	5.38	5.44	2.44	6.69	3.89	2.69	2.02	-----	-----	-----	-----
Channel catfish	6.26	5.20	17.58	10.09	28.01	12.54	16.32	9.50	11.81	8.85	7.13	5.06	10.21	17.47
Flathead catfish	-----	-----	3.75	2.15	-----	-----	9.38	5.47	-----	-----	-----	-----	-----	-----
Black bullhead	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
White bass	12.40	10.30	8.13	4.67	17.38	7.78	7.46	4.34	8.82	6.61	9.00	6.38	-----	-----
Texas spotted bass	.38	.32	-----	-----	2.12	.95	1.94	1.13	-----	-----	.37	.27	-----	-----
Largemouth black bass	4.20	3.49	3.50	2.01	5.44	2.44	-----	-----	-----	-----	1.13	.80	1.00	1.71
Warmouth	.75	.62	.56	.32	.88	.39	.88	.51	.44	.33	-----	-----	.75	1.28
Green sunfish	1.13	.94	.32	.18	-----	-----	.57	.34	-----	-----	.13	.09	.25	.43
Redear sunfish	.13	.10	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	.25	.43
Bluegill	.63	.53	.81	.47	.88	.40	.38	.22	1.13	.85	1.39	.99	.81	1.39
Longear sunfish	.38	.31	.31	.17	-----	-----	.13	.07	-----	-----	-----	-----	-----	-----
White crappie	.88	.74	.63	.37	3.51	1.57	3.56	2.08	.88	.66	.80	.57	-----	-----
Freshwater drum	-----	-----	-----	-----	.44	.20	-----	-----	2.94	2.20	-----	-----	-----	-----
Totals	120.38	100.00	174.28	100.00	223.32	100.00	171.73	100.00	133.38	100.00	140.94	100.00	58.44	100.00

Table 4. Buchanan Lake Netting Results, 1961.

Species	Number	Per Cent of Number	Weight	Per Cent of Weight
Longnose gar	147	2.70	506.14	8.38
Gizzard shad	2,798	51.44	1,227.09	20.34
Smallmouth buffalo	137	2.52	730.93	12.12
River carpsucker	1,119	20.57	2,459.68	40.76
Gray redhorse sucker	6	.11	14.63	.25
Carp	100	1.84	252.00	4.17
Channel catfish	292	5.37	252.12	4.18
Flathead catfish	23	.42	141.09	2.34
Black bullhead	1	.02	.25	.01
White bass	393	7.23	230.20	3.82
Texas spotted bass	78	1.43	70.63	1.16
Largemouth black bass	92	1.69	50.77	.84
Warmouth	5	.10	.89	.02
Green sunfish	11	.20	1.41	.02
Spotted sunfish	2	.03	.19	.01
Redear sunfish	10	.19	3.39	.06
Bluegill	70	1.29	12.41	.20
Longear sunfish	29	.53	2.93	.05
White crappie	85	1.56	50.53	.84
Freshwater drum	41	.76	26.16	.43
Totals	5,439	100.00	6,033.44	100.00

Table 1. Lake Buchanan Netting Results by Number and Percent of Number, Resurvey, 1961.

Common Name	January 1961		February 1961		March 1961		April 1961		May 1961		June 1961	
	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
Longnose gar							14	4.76	59	19.34	18	2.70
Gizzard shad	155	61.02	457	56.07	605	75.71	121	41.15	128	41.97	494	74.17
Smallmouth buffalo	4	1.57	6	.73	14	1.76			17	5.57	12	1.80
River carpsucker	69	27.17	248	30.43	27	3.38	118	40.14	63	20.66	13	1.96
Gray redhorse sucker					2	.25						
Carp	1	.39	2	.25	10	1.25	12	4.08	5	1.64	6	.90
Channel catfish	17	6.70	50	6.13	53	6.63	3	1.02	4	1.31	20	3.00
Flathead catfish					7	.88			1	.32	2	.30
Black bullhead												
White bass			48	5.89	33	4.13	18	6.12	16	5.25	51	7.66
Texas spotted bass	1	.39	4	.50	1	.12	1	.34	1	.33	1	.15
Largemouth black bass	1	.39			6	.75	1	.34	1	.33	1	.15
Warmouth	1	.40					1	.34			1	.15
Green sunfish	3	1.18					1	.34				
Spotted sunfish												
Redear sunfish									4	1.31		
Bluegill	1	.39			3	.38	2	.68	3	.98	8	1.20
Longear sunfish	1	.40							2	.66	7	1.05
White crappie					35	4.38					8	1.20
Freshwater drum					3	.38	2	.69	1	.33	24	3.61
Totals	254	100.00	815	100.00	799	100.00	294	100.00	305	100.00	666	100.00

Table 5 continued. Lake Buchanan Netting by numbers....

Common Name	July 1961		August 1961		September 1961		October 1961		November 1961		January 1962	
	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
Longnose gar	2	.87	3	.86	10	1.54	9	5.45	32	4.85	--	-----
Gizzard shad	86	37.55	90	26.09	197	30.50	71	43.03	263	39.91	131	50.00
Smallmouth buffalo	21	9.17	4	1.16	33	5.11	--	-----	26	3.95	--	-----
River carpsucker	54	23.58	101	29.28	186	28.79	35	21.21	117	17.75	88	33.58
Gray redhorse sucker	--	-----	--	-----	--	-----	1	.61	2	.30	1	.38
Carp	4	1.75	7	2.03	24	3.71	--	-----	12	1.82	17	6.49
Channel catfish	14	6.11	29	8.40	60	9.29	11	6.66	16	2.43	15	5.73
Flathead catfish	3	1.31	--	-----	5	.78	--	-----	5	.76	--	-----
Black bullhead	1	.44	--	-----	--	-----	--	-----	--	-----	--	-----
White bass	23	10.04	41	11.89	29	4.49	9	5.46	124	18.82	1	.38
Texas spotted bass	2	.88	23	6.66	25	3.87	11	6.67	2	.30	6	2.29
Largemouth black bass	5	2.18	18	5.22	40	6.19	3	1.81	15	2.28	1	.38
Warmouth	1	.44	--	-----	--	-----	1	.61	--	-----	--	-----
Green sunfish	1	.43	2	.58	1	.15	3	1.82	--	-----	--	-----
Spotted sunfish	2	.88	--	-----	--	-----	--	-----	--	-----	--	-----
Redear sunfish	--	-----	2	.58	3	.47	1	.60	--	-----	--	-----
Bluegill	8	3.49	17	4.93	22	3.40	5	3.03	1	.15	--	-----
Longear sunfish	1	.44	6	1.74	3	.47	3	1.82	6	.91	--	-----
White crappie	1	.44	2	.58	6	.93	2	1.22	29	4.40	2	.77
Freshwater drum	--	-----	--	-----	-2	.31	--	-----	9	1.37	--	-----
Totals	229	100.00	345	100.00	1000	100.00	165	100.00	659	100.00	262	100.00

Table Lake Buchanan Netting Results by Weight and Percent of Weight, Resurvey, 1961.

Common Name	January 1961		February 1961		March 1961		April 1961		May 1961		June 1961	
	Wt.	Per Cent	Wt.	Per Cent	Wt.	Per Cent	Wt.	Per Cent	Wt.	Per Cent	Wt.	Per Cent
Longnose gar	---	-----	---	-----	---	-----	82.84	18.29	141.59	31.75	65.89	13.24
Gizzard shad	72.03	23.01	175.92	19.60	316.47	50.95	51.25	11.32	38.08	8.54	220.28	44.26
Smallmouth buffalo	21.33	6.81	44.01	4.91	57.16	9.21	-----	-----	82.96	18.60	81.27	16.33
River carpsucker	169.18	54.05	613.05	68.34	53.71	8.65	263.88	58.28	136.98	30.72	31.57	6.35
Gray redhorse sucker	-----	-----	-----	-----	4.32	.69	-----	-----	-----	-----	-----	-----
Carp	1.94	.62	5.12	.57	29.14	4.70	32.08	7.09	16.14	3.62	17.62	3.54
Channel catfish	44.34	14.16	27.47	3.06	33.12	5.33	8.44	1.86	8.81	1.97	25.64	5.15
Flathead catfish	-----	-----	-----	-----	78.08	12.57	-----	-----	4.06	.91	5.01	1.01
Black bullhead	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
White bass	-----	-----	27.84	3.10	20.03	3.23	10.52	2.32	10.91	2.45	34.21	6.87
Texas spotted bass	2.44	.78	3.69	.42	1.50	.24	.44	.10	2.13	.48	.25	.05
Largemouth black bass	.88	.28	-----	-----	4.07	.65	.75	.17	1.25	.28	1.00	.20
Warmouth	.25	.08	-----	-----	-----	-----	.19	.04	-----	-----	.13	.03
Green sunfish	.38	.12	-----	-----	-----	-----	.13	.03	-----	-----	-----	-----
Spotted sunfish	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Redear sunfish	-----	-----	-----	-----	-----	-----	-----	-----	1.63	.36	-----	-----
Bluegill	.13	.04	-----	-----	.51	.09	.81	.18	.94	.21	1.88	.38
Longear sunfish	.13	.05	-----	-----	-----	-----	-----	-----	.26	.06	.63	.12
White crappie	-----	-----	-----	-----	20.40	3.28	-----	-----	-----	-----	5.56	1.12
Freshwater drum	-----	-----	-----	-----	2.51	.41	1.44	.32	.19	.05	6.69	1.35
Totals	313.03	100.00	897.10	100.00	621.02	100.00	452.77	100.00	445.93	100.00	497.63	100.00

Table 6 continued Lake Buchanan Netting by Weights...

Common Name	July 1961		August 1961		September 1961		October 1961		November 1961		January 1961	
	Wt.	Per Cent	Wt.	Per Cent	Wt.	Per Cent	Wt.	Per Cent	Wt.	Per Cent	Wt.	Per Cent
Longnose gar	4.38	1.39	16.94	4.72	26.95	3.38	40.95	24.17	126.60	15.11	---	---
Gizzard shad	23.70	7.55	26.21	7.31	61.71	7.74	22.94	13.54	162.38	19.39	56.12	17.01
Smallmouth buffalo	120.71	38.44	20.45	5.70	164.34	20.63	-----	-----	138.70	16.55	-----	-----
River carpsucker	108.82	34.66	204.33	56.99	400.34	50.25	71.01	41.93	207.96	24.83	198.85	60.31
Gray redhorse sucker	-----	-----	-----	-----	-----	-----	2.25	1.33	5.50	.66	2.56	.77
Carp	5.20	1.66	10.96	3.06	41.26	5.18	-----	-----	45.84	5.47	46.70	14.17
Channel catfish	10.64	3.39	25.46	7.10	30.53	3.83	11.12	6.56	15.34	1.83	11.21	3.40
Flathead catfish	17.44	5.55	-----	-----	15.45	1.94	-----	-----	21.06	2.52	-----	-----
Black bullhead	.25	.08	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
White bass	13.76	4.38	16.89	4.71	13.07	1.64	4.82	2.85	77.40	9.24	.75	.22
Texas spotted bass	1.81	.58	17.39	4.85	17.02	2.14	11.33	6.69	.82	.09	11.81	3.58
Largemouth black bass	4.70	1.50	14.88	4.15	17.18	2.16	1.37	.81	4.38	.53	.31	.10
Warmouth	.19	.06	-----	-----	-----	-----	.13	.07	-----	-----	-----	-----
Green sunfish	.13	.04	.32	.09	.13	.01	.32	.19	-----	-----	-----	-----
Spotted sunfish	.19	.06	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Redear sunfish	-----	-----	.57	.16	.88	.11	.31	.18	-----	-----	-----	-----
Bluegill	1.68	.53	3.01	.84	2.88	.36	.38	.23	.19	.02	-----	-----
Longear sunfish	.13	.05	.70	.19	.25	.04	.32	.19	.51	.06	-----	-----
White crappie	.25	.08	.44	.13	4.45	.55	2.13	1.26	15.86	1.89	1.44	.44
Freshwater drum	-----	-----	-----	-----	.25	.04	-----	-----	15.08	1.81	-----	-----
Totals	313.98	100.00	358.55	100.00	6.69	100.00	169.38	100.00	837.62	100.00	329.	100.00

Table 7. Success of Gill Netting in Terms of Numbers and Pounds of Fish, Resurvey, 1961.

Body of Water	Number of Nets Set	Number of Feet Net Set	Number of Fish Caught	Number Lbs. Fish Caught	Average Number Fish/Net	Average Number Ft. of Net	Average No. Lbs Fish Per Ft. of Net
Lake Inks	100	12,500	1,990	2,311.96	19.90	0.159	23.11
Lake Buchanan	154	19,250	5,439	6,033.44	35.31	0.282	39.11
Totals	254	31,750	7,429	8,345.40	-----	-----	-----

Table 8. A Checklist of Species Mentioned in Report.

Common Name	Scientific Name
Longnose gar	<u>Lepisosteus osseus</u>
Gizzard shad	<u>Dorosoma cepedianum</u>
Smallmouth buffalo	<u>Ictiobus bubalus</u>
River carpsucker	<u>Carpionodes carpio</u>
Gray redhorse sucker	<u>Moxostoma congestum</u>
Carp	<u>Cyprinus carpio</u>
Channel catfish	<u>Ictalurus punctatus</u>
Black bullhead	<u>Ictalurus melas</u>
Flathead catfish	<u>Pylodictus olivaris</u>
White bass	<u>Roccus chrysops</u>
Texas spotted bass	<u>Micropterus treculi</u>
Largemouth black bass	<u>Micropterus salmoides</u>
Warmouth	<u>Chaenobryttus gulosus</u>
Green sunfish	<u>Lepomis cyanellus</u>
Spotted sunfish	<u>Lepomis punctatus</u>
Redear sunfish	<u>Lepomis microlophus</u>
Bluegill	<u>Lepomis macrochirus</u>
Longear sunfish	<u>Lepomis megalotis</u>
White crappie	<u>Pomoxis annularis</u>
Freshwater drum	<u>Aplodinotus grunniens</u>