

SEGMENT COMPLETION REPORT

As required by

FEDERAL AID IN FISHERIES RESTORATION ACT

TEXAS

Federal Aid Project No. F-5-R-15

REGION I-B FISHERIES STUDIES

Job No. 5 Stocking Recommendations

Project Leader: Billy J. Follis

J. R. Singleton
Executive Director
Parks and Wildlife Services
Austin, Texas

Marion Toole
D-J Coordinator

Eugene A. Walker
Director, Wildlife Services

February 21, 1968

ABSTRACT

Hydrological data, visual observations, fish population sampling and prior biological data were used to determine which public waters of Region I-B would benefit from stocking. Fingerling size fish were released to insure better survival and to allow field investigations and recommendations to be made at a more beneficial time. Recommendations were made to stock 2 lakes with both largemouth bass and channel catfish. Four reservoirs needed only bass and 2 other lakes received catfish only. One impoundment, Moss Creek Lake, was stocked with largemouth bass, channel catfish and adult flathead catfish following a chemical reduction of gizzard shad. Four reservoirs did not require stocking, mainly because the present carrying capacity was utilized by rough fish species.

SEGMENT COMPLETION REPORT

STATE OF Texas

PROJECT NO. F-5-R-15

NAME Region I-B Fisheries Studies

JOB NO. 5

TITLE Stocking Recommendations

PERIOD COVERED March 1, 1967 to February 29, 1968

Objectives:

To determine those waters which would benefit from stocking.

Specific:

1. To determine stocking requirements for existing waters.
2. To determine stocking requirements for new or renovated waters.

Procedures:

Nine public reservoirs were surveyed under this job to determine their stocking needs. Also stocking recommendations for 3 other lakes, surveyed under other jobs are included in this report.

Hydrological data and volume estimates based on spillways, water outlet gauges and other permanent land marks were used to determine the expansion or reduction of each of the concerned waters.

Seines, gill nets, and when possible, trawls were used to estimate the abundance of young game fish as well as the amount of usable forage present. The size of seines used varied slightly with water level and topography at various reservoirs. The specific dimensions are given with each seining table. The standard gill nets used were comprised of six 25-by 8-foot sections, the first sections having 1-inch mesh and the mesh in each succeeding section being increased by one-half inch. The number of gill nets set at each lake is shown on the netting tables. Trawl samples were made in 3 lakes using a 10-foot, one-half inch mesh, sportsman trawl.

Creel checks were made during most of the surveys. Also fishing success and lake conditions were discussed with concessionaires and local game wardens when possible.

A checklist of scientific names is presented so that common names may be used in this report. These names are specified in "A List of Common and Scientific Names of Fishes from the United States and Canada". Second Edition, American Fisheries Society, Special Publication Number 2, 1960.

COMMON NAME

SCIENTIFIC NAME

Longnose gar	<u>Lepisosteus osseus</u>
Gizzard shad	<u>Dorosoma cedianum</u>
Goldfish	<u>Carassius auratus</u>
Carp	<u>Cyprinus carpio</u>
Plains minnow	<u>Hybognathus placita</u>
Golden shiner	<u>Notemigonus crysoleucas</u>
Texas shiner	<u>Notropis amabilis</u>
Red shiner	<u>Notropis lutrensis</u>
Blacktail shiner	<u>Notropis venustus</u>
Bullhead minnow	<u>Pimephales vigilax</u>
River carpsucker	<u>Carpionodes carpio</u>
Smallmouth buffalo	<u>Ictiobus bubalus</u>
Black bullhead	<u>Ictalurus melas</u>
Channel catfish	<u>Ictalurus punctatus</u>
Flathead catfish	<u>Pylodictis olivaris</u>
Mosquitofish	<u>Gambusia affinis</u>
White bass	<u>Roccus chrysops</u>
Warmouth	<u>Chaenobryttus gulosus</u>
Redbreast sunfish	<u>Lepomis auritus</u>
Green sunfish	<u>Lepomis cyanellus</u>
Orangespotted sunfish	<u>Lepomis humilis</u>
Bluegill	<u>Lepomis macrochirus</u>
Longear sunfish	<u>Lepomis megalotis</u>
Redear sunfish	<u>Lepomis microlophus</u>
Largemouth bass	<u>Micropterus salmoides</u>
White crappie	<u>Pomoxis annularis</u>
Logperch	<u>Percina caprodes</u>
Freshwater drum	<u>Aplodinotus grunniens</u>

Discussion:

Five of the 9 public reservoirs surveyed under this job received supplementary stocking as shown in Table 1. Three other lakes were found to need stocking when surveyed under Job No. 4.

During the past 2 segments of this job, fingerling size fish have been stocked in the candidate waters with established fish populations rather than fry as used in previous years. This practice is assumed to be superior and will be investigated during the following three years under a new job of this project.

One of the advantages of the late or midsummer stocking of fingerling fish is that it enables the necessary field investigations and the resulting recommendations to be made just prior to the releases - not one year in advance as it was done in the past. This appears to be a more efficient practice because of water volume fluctuations and changes in game fish populations.

Other public water stocking in Region I-B includes Moss Creek Lake where 7,500 advance bass fingerlings and 4,000 channel catfish fingerlings were released. Although this stocking request was made following a chemical treatment to reduce the gizzard shad population of the lake, it seems appropriate to

A Compilation of Hydrological and Fish Population Data and the Resultant Stocking Request of the 1967 Stocking Season

Lake	Population Findings		Hydrological Conditions	Abundance of Young		Stocking Request (All fingerlings)
	Job	Tables		Bass	Catfish	
Champion Creek	5	2	Water level 16' below spillway, has never filled to its 41,670 acre feet capacity.	Abundant (B&D) 1/	Rare (A&E)	10,000 catfish (A&D)
Colorado City	5	3	Within 3 feet of full, level maintained relatively constant	Common (AB&D)	Common (A&B)	None
J. B. Thomas	5	4	Water level 16 feet below spillway when surveyed.	Common (A&B)	Abundant (A&D)	20,000 bass (D&E)
Nasworthy	5	5	Water level maintained fairly constant, within 2 feet of spillway.	Abundant (D&E)	Common (A&C)	None
Oak Creek	5	6	Water level 6 feet below outlet when surveyed.	Abundant (B&D)	Common (A)	None
San Angelo	5	7	Contained only 11,000 acre ft. Rare at time of survey, has not been at 119,200 acre feet capacity for several years.	Rare (AB&D)	Abundant (AD&C)	10,000 bass (GF&I)
Twin Buttes	5	8	Varies with runoff and release, 11,000 acre feet when surveyed.	Common (B&D)	Common (A&B)	10,000 bass 20,000 catfish (F&I)
Winters, Old	5	9	Water level 2 feet below spillway	Common (A&D)	Common (A&D)	None

Table 1 (Continued)

Lake	Population Findings		Hydrological Conditions	Abundance of Young		Stocking Request (All fingerlings)
	Job	Tables		Bass	Catfish	
Winters, New	5	10	Water level 2 feet below spillway	Rare (A&B)	Abundant (A&C)	1,200 bass (G&I)
Elm Creek	4	11	Full when surveyed, fairly constant.	Common (B)	Rare (A&D)	600 catfish (D&G)
Mountain Creek	4	12	Within 1-foot of spillway when surveyed.	Common (A&B)	Rare (A&D)	2,000 bass (I) 2,000 catfish (A&D)
Valley Creek	4	13	Full when surveyed	Rare (B&D)	Common (A&D)	3,000 bass (G&I)

1/ Key

- A. Netting results
- B. Seining results
- C. Trawling results
- D. Creel reports
- E. Prior biological data
- F. Increased water area
- G. Scarcity of game fish
- H. Probability of runoff great because of large watershed
- I. Abundant food supply for game fish

include the stocking in this report. Also, 53 adult flathead catfish ranging in size from 4 to 17 pounds were released in this 150-surface acre impoundment in an attempt to control an expanding black bullhead population. These large predator fish were collected from area lakes by project personnel.

It is recommended that this job be continued under the newly created fisheries management job.

Prepared by Billy J. Follis
Project Leader

Approved by Marion Toole
Coordinator

Date February 21, 1968

Leo D. Lewis
Inland Fisheries Supervisor

Table 2

Survey Results Champion Creek Reservoir, June 14, 1967. Results of 6 gill nets.

Species	Number	Per Cent by No.	Total Wt. Pounds	Avg. Wt. Pounds	Per Cent by Wt.	Avg. "K"
Gizzard shad	1	.53	1.98	1.98	2.03	
Carp	1	.53	2.64	2.64	2.72	
Golden shiner	6	3.18	1.21	.20	1.24	
River carpsucker	1	.53	2.04	2.04	2.10	
Black bullhead	21	11.11	13.66	.65	14.05	
Channel catfish*	10	5.29	24.57	2.46	25.27	2.30
Flathead catfish*	2	1.06	6.11	3.05	6.28	2.04
White bass*	4	2.11	4.85	1.21	4.99	2.65
Warmouth*	1	.53	.13	.13	.13	4.02
Bluegill*	133	70.36	37.93	.28	39.02	4.44
Largemouth bass*	8	4.24	1.99	.25	2.05	2.13
White crappie*	1	.53	.12	.12	.12	2.75
Total	189	100.00	97.23		100.00	
Game Fish*	159	84.12	75.70		77.86	
Rough Fish	30	15.88	21.53		22.14	

Seining Results Champion Creek Reservoir (100 x 10 x 1/2-inch mesh seine, 30 x 6 x 1/4-inch mesh seine and 20 x 6 x 1/8-inch mesh seine).

Species	Number	Size Range In Inches
Goldfish	1	5
Golden shiner	2	4
Red shiner	54	1 1/2 - 2 1/2
Blacktail shiner	22	2-3
Bullhead minnow	2	2 1/2
River carpsucker	1	4
Mosquitofish	26	1-2 1/2
Green sunfish	3	3-4
Bluegill	2,008	1-4
Largemouth bass	566	1-7
White crappie	1	3
Total	2,686	

Table 3

Survey Results Colorado City Lake, April 5, 1967. Results of 6 gill nets.

Species	Number	Per Cent by No.	Total Wt. Pounds	Avg. Wt. Pounds	Per Cent by Wt.	Avg. "K"
Gizzard Shad	119	55.09	20.60	.17	8.29	
Carp	5	2.31	5.10	1.02	2.05	
River carpsucker	17	7.87	31.00	1.82	12.48	
Channel catfish*	9	4.17	9.14	1.01	3.68	1.65
Flathead catfish*	17	7.87	148.78	8.75	59.90	2.04
White bass*	5	2.31	9.69	1.94	3.90	3.26
Green sunfish*	1	.47	.12	.12	.05	2.64
Bluegill*	14	6.48	1.25	.09	.50	3.02
Redear sunfish*	1	.47	.11	.11	.04	3.51
Largemouth bass*	8	3.71	12.40	1.55	4.99	2.47
White crappie*	20	9.25	10.21	.51	4.12	2.84
Total	216	100.00	248.40		100.00	
Game Fish*	75	34.73	191.70		77.18	
Rough Fish	141	65.27	56.70		22.82	

Seining Results Colorado City Lake (30 x 6 x 1/4-inch mesh seine and 20 x 6 x 1/8-inch mesh seine).

Species	Number	Size Range in Inches
Gizzard shad	400	2-6
Plains minnow	6	2-4
Golden shiner	22	3-5
Texas shiner	18	1 1/2-2 1/2
Red shiner	100	1 1/2-3
Blacktail shiner	200	2-3
Bullhead minnow	10	1 1/2-3
Channel catfish	3	4
Flathead catfish	1	5
White bass	10	3-5
Bluegill	50	1 1/2-4
Longear sunfish	20	1 1/2-4
Redear sunfish	40	2-4
Largemouth bass	25	2 1/2-6
White crappie	10	3-5
Logperch	5	4-5
Total	920	

Table 4

Survey Results J. B. Thomas Lake, March 7 and August 17, 1967. Results of 12 gill nets.

Species	Number	Per Cent by No.	Total Wt. Pounds	Avg. Wt. Pounds	Per Cent by Wt.	Avg. "K"
Gizzard shad	22	12.30	3.20	.14	1.65	
Carp	30	16.76	39.15	1.30	20.29	
River carpsucker	45	25.13	48.84	1.08	25.31	
Channel catfish*	22	12.30	28.02	1.27	14.52	1.82
Flathead catfish*	3	1.67	27.64	9.21	14.33	2.26
White bass*	16	8.94	20.50	1.28	10.62	2.73
Bluegill*	2	1.12	.18	.09	.10	3.38
Largemouth bass*	6	3.35	19.55	3.26	10.13	2.81
White crappie*	10	5.59	2.66	.27	1.38	2.42
Freshwater drum	23	12.84	3.22	.14	1.67	
Total	179	100.00	192.96		100.00	
Game Fish*	59	32.97	98.55		51.08	
Rough Fish	120	67.03	94.41		48.92	

Seining results J. B. Thomas Lake (100 x 10 x ½-inch mesh seine, 30 x 6 x ¼-inch mesh seine and 20 x 6 x 1/8-inch mesh seine).

Species	Number	Size Range in Inches
Gizzard shad	257	3-12
Plains minnow	1	1½
Red shiner	118	1-2
Blacktail shiner	403	1-3
Bullhead minnow	50	1-1½
Green sunfish	1	3
Orangespotted sunfish	1	2
Bluegill	18	1-4
Longear sunfish	17	2-3
Largemouth bass	67	2-10
White crappie	1	4
Total	934	

Table 5

Survey Results Nasworthy Lake, September 12, 1967. Results of 6 gill nets.

Species	Number	Per Cent by No.	Total Wt. Pounds	Avg. Wt. Pounds	Per Cent by Wt.	Avg. "K"
Gizzard shad	195	46.42	28.30	.14	13.16	
Carp	46	10.96	85.63	1.86	39.83	
Golden shiner	1	.24	.15	.15	.07	
River carpsucker	1	.24	2.86	2.86	1.33	
Black bullhead	63	15.00	21.58	.34	10.03	
Channel catfish*	26	6.19	41.89	1.61	19.49	1.92
Flathead catfish*	1	.24	4.07	4.07	1.89	1.99
White bass*	5	1.19	7.82	1.56	3.64	3.17
Bluegill*	13	3.10	1.26	.09	.58	4.20
Longear sunfish*	1	.24	.10	.10	.05	4.36
Redear sunfish*	4	.95	.46	.11	.21	4.09
Largemouth bass*	3	.71	2.14	.71	1.00	2.68
White crappie*	57	13.57	14.78	.26	6.87	2.93
Freshwater drum	4	.95	3.96	.99	1.85	
Total	420	100.00	215.00		100.00	
Game Fish*	110	26.19	72.52		33.73	
Rough Fish	310	73.81	142.48		66.27	

Seining results Nasworthy Lake (100 x 10 x ½-inch mesh seine, 30 x 6 x ¼-inch mesh seine and 20 x 6 x 1/8-inch mesh seine).

Species	Number	Size Range in Inches
Gizzard shad	93	2-6
Carp	1	14
Red shiner	27	1½-3
Bluegill	13	1-4
Longear sunfish	6	2-4
Largemouth bass	3	6-8
Total	143	

Seining Results San Angelo Reservoir (100 x 10 x 1/2-inch mesh seine, 30 x 6 x 1/4-inch mesh seine and 20 x 6 x 1/8-inch mesh seine).

Species	Number	Size Range in Inches
Gizzard shad	2	2-3
Carp	1	14
Golden shiner	1	4
Red shiner	5	1-2
Bullhead minnow	1	1
River carpsucker	6	3-5
Channel catfish	2	2-4
White bass	1	2
Redbreast sunfish	1	2
Orangespotted sunfish	6	2-3
Bluegill	6	2-3
Largemouth bass	3	3-6
White crappie	2	3
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Total	37	

Trawling Results San Angelo Reservoir, September 18, 1967. (16 x 10 x 1/2-inch mesh trawl).

Species	Number	Size Range in Inches
Gizzard shad	122	1 1/2-7
Carp	62	4-10
Bullhead minnow	2	2
Channel catfish	7	1 1/2-5
White bass	1	2 1/2
Redbreast sunfish	1	5
Orangespotted sunfish	1	3
Bluegill	4	2-3
White crappie	18	1 1/2-5
Logperch	1	5
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Total	219	

Table 8

Survey Results Twin Buttes Reservoir, July 7, 1967. Results of 8 gill nets.

Species	Number	Per Cent by No.	Total Wt. Pounds	Avg. Wt. Pounds	Per Cent by Wt.	Avg. "K"
Gizzard shad	212	59.88	34.69	.16	16.02	
Carp	13	3.67	25.66	1.97	11.86	
River carpsucker	56	15.82	90.03	1.61	41.60	
Channel catfish*	12	3.39	10.46	.87	4.83	1.74
Flathead catfish*	2	.57	21.53	10.76	9.95	2.19
White bass*	13	3.67	18.94	1.46	8.75	3.05
Bluegill*	19	5.37	1.66	.09	.77	3.69
Largemouth bass*	3	.85	6.57	2.19	3.04	2.58
White crappie*	8	2.26	3.03	.38	1.40	2.63
Freshwater drum	16	4.52	3.85	.24	1.78	
Total	354	100.00	216.42		100.00	
Game Fish*	57	16.11	62.19		28.74	
Rough Fish	297	83.89	154.23		71.26	

Seining Results Twin Buttes Reservoir (100 x 10 x 1/2-inch mesh seine, 30 x 6 x 1/4-inch mesh seine and 20 x 6 x 1/8-inch mesh seine).

Species	Number	Size Range in Inches
Gizzard shad	3,821	1-8
Carp	18	2-12
Golden shiner	2	3
Red shiner	27	1 1/2-2
Blacktail shiner	1	2
Bullhead minnow	9	1-2
Channel catfish	10	6-8
Mosquitofish	4	1 1/2-2
White bass	2	5
Green sunfish	4	2-4
Orangespotted sunfish	49	2-4
Bluegill	105	2-4
Longear sunfish	68	2-4
Redear sunfish	29	2-4
Largemouth bass	11	3-6
White crappie	1	3
Logperch	2	4
Total	4,163	

Table 9

Survey Results Old Winters Lake, October 17, 1967. Results of 2 gill nets.

Species	Number	Per Cent by No.	Total Wt. Pounds	Avg. Wt. Pounds	Per Cent by Wt.	Avg. "K"
Gizzard shad	37	88.09	4.07	.11	20.26	
Channel catfish*	1	2.38	.33	.33	1.65	1.26
Flathead catfish*	1	2.38	5.94	5.94	29.58	1.86
Largemouth bass*	2	4.77	9.69	4.84	48.26	3.18
White crappie*	1	2.38	.05	.05	.25	2.44
Total	42	100.00	20.08		100.00	
Game Fish*	5	11.91	16.01		79.74	
Rough Fish	37	88.09	4.07		20.26	

Seining Results Old Winters Lake (30 x 6 x 1/2-inch mesh seine and 20 x 6 x 1/8-inch mesh seines).

Species	Number	Size Range in Inches
Gizzard shad	14	3-8
Carp	7	8-10
Red shiner	152	1-3
Mosquitofish	123	1-2 1/2
Orangespotted sunfish	3	3
Bluegill	22	1-4
Largemouth bass	2	5-6
White crappie	5	2-5
Total	328	

Table 10

Survey Results New Winters Lake, August 8, 1967. Results of 4 gill nets.

Species	Number	Per Cent by No.	Total Wt. Pounds	Avg. Wt. Pounds	Per Cent by Wt.	Avg. "K"
Gizzard shad	8	8.00	2.15	.27	5.49	
Carp	4	4.00	14.98	3.74	38.30	
River carpsucker	3	3.00	2.92	.97	7.47	
Channel catfish*	10	10.00	5.68	.57	14.52	1.72
Bluegill*	1	1.00	.07	.07	.18	3.72
White crappie*	64	64.00	8.85	.14	22.63	2.60
Freshwater drum	10	10.00	4.46	.45	11.41	
Total	100	100.00	39.11		100.00	
Game Fish*	75	75.00	14.60		37.33	
Rough Fish	25	25.00	24.51		62.67	

Seining Results New Winters Lake, (100 x 10 x 1/2-inch mesh seine, 30 x 6 x 1/4-inch mesh seine and 20 x 6 x 1/8-inch mesh seine)

Species	Number	Size Range in Inches
Gizzard shad	250	2-12
Golden shiner	5	3-5
Red shiner	30	1 1/2-3
Mosquitofish	10	1 1/2-2 1/2
Bluegill	65	1 1/2-4
White crappie	60	2-8
Total	420	

Trawling Results New Winters Lake (16 x 10 x 1/2-inch mesh trawl).

Species	Number	Size Range in Inches
Channel catfish	4	2 1/2-14
Orangespotted sunfish	5	2-3
White crappie	6	3-6
Freshwater drum	20	1 1/2-3
Total	35	

Table 11

Survey Results Elm Creek Reservoir, May 23, 1967 and January 17, 1968. Results of 6 gill nets.

Species	Number	Per Cent by No.	Total Wt. Pounds	Avg. Wt. Pounds	Per Cent by Wt.	Avg. "K"
Longnose gar	59	21.22	121.63	2.06	32.62	
Gizzard shad	130	46.76	69.49	.53	18.64	
Carp	1	.36	5.61	5.61	1.50	
River carpsucker	43	15.47	100.93	2.35	27.08	
Smallmouth buffalo	8	2.88	38.05	4.76	10.20	
Black bullhead	9	3.23	6.00	.67	1.61	
Channel catfish*	3	1.08	11.46	3.82	3.08	1.88
Flathead catfish*	1	.36	8.14	8.14	2.18	1.95
Warmouth*	1	.36	.09	.09	.02	3.80
Bluegill*	4	1.44	.32	.08	.09	3.53
Largemouth bass*	1	.36	3.74	3.74	1.00	3.50
White crappie*	14	5.04	3.61	.26	.98	3.03
Freshwater drum	4	1.44	3.74	.93	1.00	
Total	278	100.00	372.81		100.00	
Game Fish*	24	8.64	27.36		7.34	
Rough Fish	254	91.36	345.45		92.66	

Seining Results Elm Creek Reservoir (30 x 6 x ¼-inch mesh seine and 20 x 6 x 1/8-inch mesh seine).

Species	Number	Size Range in Inches
Gizzard shad	800	1-3
Mosquitofish	50	1-2½
Orangespotted sunfish	20	2-3
Bluegill	50	1½-3
Longear sunfish	20	2-4
Largemouth bass	150	1-2
White crappie	300	1-2½
Logperch	5	3-4
Total	1,395	

Table 12

Survey Results Mountain Creek Reservoir, May 17, 1967 and January 25, 1968.
Results of 6 gill nets.

Species	Number	Per Cent by No.	Total Wt. Pounds	Avg. Wt. Pounds	Per Cent by Wt.	Avg. "K"
Gizzard shad	7	2.10	9.03	1.29	5.95	
Golden shiner	145	43.54	28.79	.20	18.99	
Black bullhead	3	.90	2.97	.99	1.96	
Channel catfish*	1	.30	1.60	1.60	1.05	2.17
Flathead catfish*	9	2.70	76.20	8.47	50.27	2.14
Warmouth*	2	.61	.23	.11	.15	3.47
Bluegill*	135	40.55	15.34	.11	10.12	4.07
Redear sunfish*	6	1.80	1.14	.19	.75	3.69
Largemouth bass*	13	3.90	10.83	.83	7.14	2.49
White crappie*	12	3.60	5.48	.46	3.62	2.79
Total	333	100.00	151.61		100.00	
Game Fish*	178	53.46	110.82		73.10	
Rough Fish	155	46.54	40.79		26.90	

Seining Results Mountain Creek Reservoir (30 x 6 x ¼-inch mesh seine and 20 x 6 x 1/8-inch mesh seine).

Species	Number	Size Range in Inches
Golden shiner	24	1½-5
Mosquitofish	1	2½
Green sunfish	1	4
Bluegill	10	2-3
Redear sunfish	8	2-3
Total	44	

Table 13

Survey Results Valley Creek Lake, March 29 and May 24, 1967. Results of 8 gill nets.

Species	Number	Per Cent by No.	Total Wt. Pounds	Avg. Wt. Pounds	Per Cent by Wt.	Avg. "K"
Longnose gar	14	2.88	65.24	4.66	15.85	
Gizzard shad	272	55.96	37.44	.14	9.09	
Carp	21	4.32	96.14	4.58	23.36	
River carpsucker	102	20.99	146.36	1.43	35.56	
Black bullhead	1	.21	.80	.80	.20	
Channel catfish*	16	3.29	22.34	1.40	5.43	1.83
Bluegill*	9	1.85	.93	.10	.22	4.20
Redear sunfish*	1	.21	.26	.26	.07	4.06
Largemouth bass*	5	1.03	16.16	3.23	3.92	2.66
White crappie*	30	6.17	5.81	.19	1.41	2.76
Freshwater drum	15	3.09	20.09	1.34	4.89	
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Total	486	100.00	411.57		100.00	
Game Fish*	61	12.55	45.50		11.05	
Rough Fish	425	87.45	366.07		88.95	

Seining Results Valley Creek Lake (100 x 10 x 1/2-inch mesh seine, 30 x 6 x 1/4-inch mesh seine and 20 x 6 x 1/8-inch mesh seine).

Species	Number	Size Range in Inches
Gizzard shad	327	3-8
Red shiner	37	1-3
Blacktail shiner	64	1-5
Mosquitofish	6	1-2
Redbreast sunfish	1	2
Green sunfish	10	1-3
Bluegill	54	1-5
Longear sunfish	86	2-5
Redear sunfish	30	1-6
Largemouth bass	7	1 1/2-6
White crappie	242	2-5
Logperch	2	3-4
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Total	866	

