

STATE Texas

PROJECT NO. F-6-R-2, Job B-4

PERIOD July 1, 1954 to June 30, 1955

Segment Completion Report

by

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FILE

TITLE

Inventory of the fish species present in Falcon Reservoir.

OBJECTIVES

To determine the species present and their relative numbers in Falcon Reservoir.

PROCEDURE

a. Netting Collections

1. Ten stations were selected on Falcon Reservoir to represent different locations and ecological conditions. A total of 112 experimental nets were set during the period. As far as possible nets were set at each station at monthly intervals but because of low water equipment breakdown some were not sampled.
2. All fish taken in nets were weighed and measured, sexed and parasites noted. Scales failed to yield any signs by which age could be determined. Twenty-four stomachs were examined in the field and contents noted. Twelve stomachs of small fish were preserved for further laboratory study.

b. Seining Collections

1. Twelve seining collections were made at the three available beaches with a 30 x 6 foot bag seine. Four rotenone collections were made, chiefly in an effort to recover bass fry.

- c. Data collected on netting and seining collections was recorded on fish cards and collections sheets. These were filed for further study, tabulation and analysis.

RESULTS

a. Netting Collections

1. A total of 3868 specimens of 21 species was taken in the 112 experimental gill net sets.

2. The data collected was filed and the "K" factors and stomach analysis will be presented in the job completion report.
- b. Seining Collections
 1. A total of 1491 fish of 15 species was taken in twelve seining collections and 6765 fish of 20 species were taken in the four rotenone collections.
 - c. All data observed and recorded in making the netting and seining collections was filed and will be used later in making detailed charts and tables for the job completion report. A total of 28 species of fish have been recorded during this segment from Falcon Reservoir. Their frequency of occurrence for this segment is shown on the species list.

SUMMARY

One hundred and twelve experimental gill net sets, twelve seining collections and four rotenone collections were made in Falcon Reservoir during this segment. Fish collected were tabulated, weighed, measured, sexed and parasites noted. Stomach contents were preserved from some fish. Twenty-eight fish species have been recorded from Falcon Reservoir.

Table 1

Results of Experimental Netting in Falcon Reservoir

Species	Number collected	Percent of Total
<i>Lepisosteus spatula</i>	479	12.383
<i>Lepisosteus productus</i>	6	.155
<i>Lepisosteus osseus</i>	33	.853
<i>Dorosoma cepedianum</i>	245	6.334
<i>Astyanax fasciatus</i>	1	.025
<i>Ictiobus bubalus</i>	1313	33.945
<i>Carpionodes carpio</i>	66	1.706
<i>Ictalurus punctatus</i>	4	.103
<i>Ictalurus furcatus</i>	451	11.659
<i>Ameiurus melas</i>	1	.025
<i>Pilodictus olivaris</i>	32	.827
<i>Mugil cephalus</i>	2	.051
<i>Chaenobryttus coronarius</i>	3	.077
<i>Morone chrysops</i>	2	.051
<i>Micropterus salmoides</i>	5	.129
<i>Lepomis cyanellus</i>	1	.025
<i>Lepomis macrochirus</i>	60	1.551
<i>Lepomis auritus</i>	2	.051
<i>Pomoxis annularis</i>	1	.025
<i>Aplodionotus grunniens</i>	1143	29.550
<i>Cichlasoma cyanoguttata</i>	18	.465
Total	3868	

Table 2

Results of Seining and Rotenone Collections in Falcon Reservoir

Species	Seining	Rotenone	Total	Percent
<i>Lepisosteus spatula</i>	0	4	4	.048
<i>Lepisosteus osseus</i>	1	0	1	.012
<i>Dorosoma cepedianum</i>	691	3302	3993	48.365
<i>Astyanax fasciatus</i>	101	115	216	2.616
<i>Ictiobus bubalus</i>	5	44	49	.593
<i>Carpionodes carpio</i>	0	2	2	.024
<i>Hybopsis aestivalis</i>	8	16	24	.290
<i>Notropis braytoni</i>	71	42	113	1.369
<i>Notropis lutrensis</i>	69	80	149	1.805
<i>Notropis proserpinus</i>	40	17	57	.690
<i>Ictalurus punctatus</i>	0	1	1	.024
<i>Ictalurus furcatus</i>	0	11	11	.133
<i>Ameiurus melas</i>	0	2	2	.024
<i>Cyprinodon variegatus</i>	5	14	19	.230
<i>Gambusia affinis</i>	5	1314	1319	15.976
<i>Menidia beryllina</i>	420	1669	2089	25.303
<i>Lepomis cyanellus</i>	1	11	12	.145
<i>Lepomis macrochirus</i>	10	42	52	.630
<i>Lepomis auritus</i>	0	1	1	.012
<i>Aplodionotus grunniens</i>	60	51	111	1.344
<i>Cichlasoma cyanoguttata</i>	4	27	31	.375
Total	1491	6765	8256	