

Segment Completion Report

by

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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 47 experimental nets were set from November 1953 to June 1954. As far as possible, nets were set at each station at monthly intervals but because of low water stations in the upper lake were frequently inaccessible.
2. Thirty net sets were made with 100 by 8 ft. nets of two inch and three inch square mesh at various locations.
3. One hoop net was set for four nights and baited with beef scraps. A fyke net was not available.
4. Beginning in February 1954 when weighing and measuring equipment was delivered, all fish taken in the nets were weighed, measured, sexed and parasites noted. Some scales were collected but prove of no value in determining age. Fifteen stomachs of game and predacious fish were preserved.

b. Seining Collections

1. Ten seining collections were made at three beaches with a 30 ft. by 6 ft. bag seine with one-fourth inch mesh and a Common Sense seine, 20 ft. long. Thick brush covers almost the entire lake bed and very few seining areas are available. One rotenone collection was made.
2. Data collected on netting and seining collections were recorded on fish cards and collection sheets and these were filed for further study and tabulations.

RESULTS

a. Netting Collections

1. A total of 1,696 specimens of 18 species of fish were taken in the 47 experimental gill net sets.
2. Four-hundred and eighty-six fish of 12 species were taken in the two and three inch mesh nets.

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3. The one hoop net set took 38 fish of five species.
4. The data collected was filed and the "K" factors and stomach analyses are being prepared.

b. Seining Collections

1. A total of 6,266 fish of 30 species was taken in the ten seining collections and 3,056 fish of 12 species were taken in the rotenone collection.
2. All data observed and recorded in making the netting and seining collections were filed and will be used later in compiling detailed charts and tables for the job completion report. A total of 31 species of fish have been recorded from Falcon Reservoir. Their frequency of occurrence is shown on the Fish List.

SUMMARY

Netting and seining collections and one rotenone collection were made in Falcon Reservoir during the period. Fish collected were tabulated, weighed, measured, sexed and parasites noted. Stomachs and scales were collected from some of the fish. Thirty-one fish species have been recorded from the Reservoir.

FISH LIST

Name of Water Falcon Reservoir Date _____

31 Species	Seining Station	Netting Station	Total	Percent
Lepisosteus spatula	0	120	120	1.23
Lepisosteus platostomus	0	2	2	.02
Lepisosteus productus	0	5	5	.05
Lepisosteus osseus	0	24	24	.25
Dorosoma petenensis	1	0	1	.01
Dorosoma cepedianum	3,517	659	4,176	42.88
Astyanax fasciatus m.	863	0	863	8.86
Ictiobus niger	0	1	1	.01
Ictiobus bubalus	551	179	730	7.50
Carpiodes carpio	0	45	45	.46
Hybopsis aestivalis	33	0	33	.34
Notropis amabilis	33	0	33	.34
Notropis jemezianus	1	0	1	.01
Notropis lutrensis	12	0	12	.12
Notropis proserpinus	3	0	3	.03
Notropis braytoni	161	0	161	1.65
Ictalurus punctatus	0	17	17	.17
Ictalurus furcatus	0	488	488	5.01
Amerius melas	0	2	2	.02
Pilodictus olivaris	0	62	62	.64
Anguilla rostrata	1	0	1	.01
Cyprinodon variegatus	1	0	1	.01
Gambusia affinis	240	0	240	2.46
Mugil cephalus	0	2	2	.02
Menidia beryllina	1,854	0	1,854	19.04
Lepomis cyanellus	119	2	121	1.24
Lepomis macrochirus	18	8	26	.27
Lepomis auritus	1	0	1	.01
Pomoxis annularis	1	7	8	.08
Aplodinotus grunniens	345	336	681	6.99
Cichlasoma cyanoguttata	23	2	25	.03
Totals	7,778	1,979	9,739	99.99