

STATE Texas
PROJECT F-6-R-1, Job B-1
PERIOD July 1, 1953 to June 30, 1954

Segment Completion Report

by

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TITLE

Inventory of the Fish Species in the Nueces, Frio and Atascosa Rivers.

OBJECTIVES

To determine the species present and their relative numbers in the waters entering Lake Corpus Christi.

PROCEDURE

Seventeen seining collections were made on the Atascosa River on July 22 and 27, 1953 at the same stations used in Job A-1 for taking water samples. Specimens collected were preserved in formalin and tabulated at the laboratory. Stream Survey Forms were filled out at each station to describe the ecological situation. Netting of the lower area of the River will be done when the Nueces and Frio Rivers are surveyed. Low water conditions in the fall and lack of waders during the winter prevented further work on the Nueces and Frio Rivers.

OBSERVATIONS

A total of 5,740 specimens was taken, representing eighteen species. Mollienesia latipinna and Gambusia affinis were very abundant followed in order by Notropis lutrensis, Lepomis macrochirus, Lepomis megalotis, Pimephales vigilax and Cichlasoma cyanoguttata. The other eleven species comprised less than 4% of the collections. The attached list shows how many specimens of each kind were taken at each station and the percentage of each species in the total catch.

SUMMARY

Seining collections were made on seventeen stations on the Atascosa River, a total of 5,740 specimens being taken. Specimens were preserved and tabulated.

FISH LIST

Name of Water Atascosa River Date 7/22 & 27, 1954

Species	Sta.																	Total	%		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
Dorosoma cepedianum	1							3										9	13	.22	
Astyanax fasciatus					2		8	3	9									22	22	.38	
Notemigonus crysoleucas							3										1	4	4	.06	
Opsopoeodus emiliae	1	31			6	2	5											45	45	.78	
Notropis lutrensis	55	66	66	9	10	171	10	33	116								No. No	11	1	548	9.54
Pimephales vigilax	8	4	23	1	15	37	1	10	1								Fish Fish	4	104	1.81	
Ictalurus punctatus	1			15	13	1	22	4	1								Taken Taken	10	66	1.14	
Ameiurus melas							1	1	2								4	8	8	.13	
Gambusia affinis	52	147	53	216	3	5	3	286	95	103	252	60	435					6	1	1717	29.86
Mollienesia latipinna	470	156	254	83	4	427	3	504	505	317	3							13	2739	47.89	
Micropterus salmoides	2	4					15	1										23	23	.40	
Chaenobryttus coronarius	4						1	1										7	7	.12	
Lepomis macrochirus	53	5		5	2	52	74	2	8	1	9							211	211	3.69	
Lepomis megalotis	4	14		6	1	56	11	4	1									107	107	1.86	
Pomoxis annularis																		1	1	.02	
Lepomis cyanellus				3			11	4	2									20	20	.36	
Aplodinotus grunniens																		1	1	.02	
Cichlasoma cyanoguttata	7	8	2	1	1	1	4	20	24	27	6							104	104	1.81	
18 species																					
	126	721	297	567	37	117	189	1060	111	688	920	385	453	0	0	58	11	5740	100	.08	