

# Publications, Personnel and Government Organizations Related to Limnology, Aquatic Biology and Ichthyology of the Inland Waters of Texas

W.J. Clark

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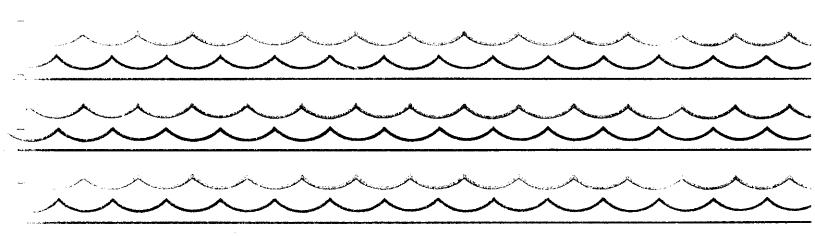
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PUBLICATIONS, PERSONNEL AND GOVERNMENT ORGANIZATIONS RELATED TO THE LIMNOLOGY, AQUATIC BIOLOGY ICHTHYOLOGY OF THE INLAND WATERS OF TEXAS

Ву

William J. Clark

Technical Report No. 5



# Water Resources Institute

TEXAS A&M UNIVERSITY

November, 1966

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### INTRODUCTION

This report is the result of a growing concern about the rate at which development of the water resources of Texas is outstripping biological and ecological knowledge of the aquatic environments concerned.

Most Texas streams are already much modified by present impoundments, diversions, and pollution. The magnitude of proposed future development is evidenced by planning proposals published in 1961 by the Texas Board of Water Engineers (1) and in 1966 by its successor agency, the Texas Water Development Board (2).

Although municipal, industrial, and agricultural water requirements currently have a preeminent role in planning water development, recreational considerations are becoming increasingly important. Factors which influence the quality and quantity of the aquatic biota have a profound effect on recreational potential, as well as on water quality aspects of other water uses.

Thus far water resource development in Texas has proceeded with little information available on possible biological effects, and only general predictions can be made based on experience elsewhere. If data are going to be available which will enable effective consideration of biological problems to be made in the planning stages of water development projects, there must be sizeable increases in the quantity and quality of aquatic research.

The taxonomy and distribution of fresh water fishes in Texas are well known, but ecological data are scarce. Our knowledge of the taxonomy, distribution and ecology of other aquatic organisms in Texas is rudimentary. Baseline information giving data on stream populations prior to development modification is meager, in contrast to the abundant physical and chemical

data provided by the United States Geological Survey, the Texas Water Development Board and other agencies. Additional research is still needed on many physical and chemical problems, however.

The compilation contained herein has two objectives: (1) to be of assistance to those already working in the fields covered and (2) to provide a status report which may encourage and perhaps make easier the entry of new researchers into these fields.

Primary emphasis has been placed on compiling the bibliographic material and on the personnel roster. The data on state and federal agencies and on courses offered at colleges and universities became available in the course of the investigation and has been included primarily to assist those new to the field in becoming oriented.

The author would appreciate being notified of errors or omissions, and would welcome suggestions as to how possible future editions might better meet the stated objectives.

### **BIBLIOGRAPHY**

### Bounds to the Bibliography

The study is confined to inland waters. The guiding principle has been the inclusion of papers reporting research on the taxonomy, distribution, life history, or ecology of the free living aquatic organisms in Texas or on the characteristics of the environment.

Papers on water pollution and parasitology are included if they include field studies and are considered to be pertinent to the free living organisms. Fishery management papers have not been included.

No attempt has been made to include all general papers such as taxonomic works which contain some information on forms found in Texas. In general, only papers concerning Texas specifically or as a major component are included.

Publications of the Texas Water Development Board and its predecessor agencies, and publications of the U.S. Geological Survey are adequately indexed elsewhere and are not included here as individual papers.

Theses and dissertations have been included, since they often provide the only available data for the subject or geographical area concerned.

A number of taxonomic papers covering adjoining states were obtained during the literature search. These papers may be very useful in those parts of Texas bordering the states concerned and they are listed in the Appendix. The list is incomplete, however, since a general search for such papers was beyond the scope of the project. The author would appreciate receiving additions to this list.

### Key Word in Context (KWIC) Index

The index was assembled by the IBM 7094 Computer of the Data Processing Center at Texas A&M University. The basic program was the EI-KWIC Program from the IBM SHARE program library, with modifications by the Texas A&M University Data Processing Center.

The information fed into the computer consists of the citations and a list of key words assembled from the titles. The computer then prints each title once for every key word in the title, puts the key word being considered in the center of the page, and arranges the lines containing the centered key words alphabetically according to the key word. Only one line is used for each title. If a title is not completed when the right hand margin is reached it is continued from the left hand margin of the same line, as long as there is room to print. If a title is longer than one line, only part of the title is printed. The part printed extends both ways from the centered key word as far as space permits. The end of the title is indicated by an equals sign. In the few cases where explanatory key words have been added to titles, the added material is set off by plus signs.

The data to the right of the title consist of the first four letters of the author's name, a dash, the author's initials, the last two numbers of the year of publication, an indexing code consisting of the first letters of the first three key words in the title, and an accession number for the citation.

# Alphabetical Listing

The citations are arranged alphabetically by first author. In this initial bibliography the citations were arranged alphabetically prior to being assigned accession numbers, except for a few late additions, and the accession numbers generally follow the alphabetical sequence. Addition of titles to the index and bibliography for future printings requires only addition of key words, if necessary, and punching of author, title, and citation cards. The program will automatically arrange the correct alphabetical sequence.

# TABLE I Key Word in Context (KWIC) Index

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S FROM TEXAS, WITH NOTES ON THE DISTRIBUTION OF CAMBARELUS FROM TEXAS.*

LETTER TO PROF. S.F. BAIRD.* GROWIN OF THE GENUS CAMBARELUS FROM TEXAS. BY THE UNITED STATES FISH C JOHN-A STUDY OF THE SOUTHERN SPOTTED CAFFISH, TOTALUNUS SP. IN THE HADMATERS OF THE SAN BARD.*

A STUDY OF THE SOUTHERN SPOTTED CAFFISH, PLECASIONUS SP. IN THE HADMATERS OF THE SAN BARD.*

BOOTITIONAL INFORMATION ABOUT BLIND CAFFISHES FROM ARTESTAN WATERS OF TEXAS.*

A DESCRIPTION OF THE COMMON FISH OF CENTRAL TEXAS AND HOW TO KNOW THEM.*

BIGLOGICAL INVESTIGATION OF THE COMMON FISH OF CENTRAL TEXAS AND HOW TO KNOW THEM.*

BIGLOGICAL INVESTIGATION OF THE COMMON FISH OF CENTRAL TEXAS AND HOW TO KNOW THEM.*

BIGLOGICAL INVESTIGATION OF THE COMMON FISH OF CENTRAL TEXAS AND HOW TO KNOW THE COLORADO RIVER, LOKA-

BIGLOGICAL INVESTIGATION OF THE COMMON FISH OF CENTRAL TEXAS SPECIHEN STOCKS OF PERCINA CAPROLES.*

SIN THE DEVELOPMENTAL TEMPERATURE TOLERANCE OF CENTRAL TEXAS.*

SIN THE DEVELOPMENTAL TEMPERATURE TOLERANCE OF CENTRAL TEXAS.*

STOWARD FROM HOME TO SPECIES OF FAIR SHIPM IN CENTRAL TEXAS.*

IS ASSOCIATED OF THE COMMON FISH OF THE COLORADO STORE HADDLE GENERAL FORCE OF FOUR CYPRIND F JURG-

STOWARD FROM HOME TO SPECIES OF TEXAS CENTRARCHIOS.*

REPRODUCTION CYCLES OF FIVE SPECIES OF TEXAS CENTRARCHIOS.*

A POPULATION STUDY OF CHARA ZETLANICA. WILLING AND NEW MEXICO.*

STOWARD TO STUDY OF THE TAXONOMY OF CHARA ZETLANICA. WILLING AND NEW MEXICO.*

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AND BREEDING PLACES AT COLLEGE STATION, TEXAS.**
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DXIDATION PONDS.= A QUANTITATIVE COMPARISON OF CHLOROPHYLL A WITH ALGAE COUNT AND CLASSIFICATION IN S

THE ECOLOGY OF CHLOROPHYLL A MALL PERENNIAL POND.=

DISTRIBUTION OF THE CLADOCERA OF BRAZDS COUNTY.=

FRESH-WATER CLADOCERA OF BRAZDS COUNTY.=

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FRESH-WATER CLADOCERA OF BRAZDS COUNTY.=

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NOTICE OF A NEW SPECIES OF CYPRINIDAE (COCHOLOGNATHUS ORNATUS).=

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REPORT ON THE AQUATIC COLEOPTERA OF THE DALLAS AREA.=

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COLIFORM IN WASTE STABILIZATION PONDS.
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"REIN EX WILLDENON, PH.D. +INCLUDES TEXAS CHARACIM, ASTYANAY MEXICANUS IN TEXAS.=

R AQUATIC GASTROPODS.=

R AQUATIC GASTROPODS.=

A CHECKLIST OF TEXAS FRESH-WATER SIGNED BY SECTION ALGAE BLOOMS

THE PHYSICAL, CHEMICAL AND BIOLOGICAL FACTORS AFFECTING ALGAE BLOOMS

TO TASTES AND DOORS IN A WATER SUPPLY.= THE CHEMICAL COMPOUND PRODUCED BY ACTINOMYCETES AND THEIR
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Cladophora Glomerata (Chlorophyceae) Near Dallas.=
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   MP IN CENTRAL TEXAS.= A NEW LOCALITY RECORD FOR BRA
A) +CRAYFISH+.= ECCLOGICAL STUDIES OF COMMENSAL BRA
DIATOMS OF BRA
MOSOUITOES OF BRA
ECCLOGICAL OBSERVATIONS ON MINTER SPRING, BRA
ANOPHELINE LARVAE IN THIRTY-NINE STOCK TANKS IN BRA
, TEXAS.= A SURVEY OF ANOPHELINE LARVAE AND BRE
FLCOD DISPERSAL OF BRO
A COLLECTION OF FISHES FROM THE RIO GRANDE, A BRO
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DELC-A 62-R8S
MILL-R862-GPC
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WUBB-CL 29-SFD
KUBB-CL 29-SFD
GIRA-G 49-RCF
GLAS-V 49-RAC
MCCL-O 51-RAC
MCCL-O 49-BCD
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HILL-DD36-BAS
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EVAN-AA36-SPO
1117-1661-15C

LOCK-WN80-DNS

86EAN-LH81-MYA

90UN-WC60-ESC

LONG-WC60-ESC

LONG-WC60-ESC

LONG-WC60-ESC

LONG-WC80-CSC

JOHN-CSC 2-LSL

LAMB-LD39-LSL

LAMB-LD39-CSB

8ROD-8F40-BCS

BROD-8F40-BCS

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PENN-GH - CTK
PENN-GH - CTK
HO88-H149 - ETC
HO88-H145 - NGG
HORN-ELGO-ESC
RCCL-O-BF40-BCS
COCK-V 46-098
MAST-MASO-PSD
MENT-GOS+COR
MCCL-O 49-8CD
JOHN-PR42-SCT
H166-HCA-HCA
ALLI-R64-HCA
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SCHI-CL44-ACF
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STRA-RK57-LEM
SIVE-NC49-FSB
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COMMENSAL TEXAS...
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COMMISSION OF THE UNITED STATES AND MEXICO, 1892-
COMMISSION, LETTER TO PROF. S.F., BAIRD... GROWTH
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     ECIES OF CATOSTONUS (EATOSTONUS CYPHO) FROM THE COLMOVEMENTS OF YOUNG ALMIVES (POMOLOBUS SP) IN COLMO (DECAPODA) +CRAYISH+... ECOLOGICAL STUDIES OF COME ALGAE POPULATION OF THE MEFLEY-TATLOR LAKE OF COMELUSKS COLLECTED BY THE INTERNATIONAL BOUNDARY COMESENT TO SAVOY, TEXAS, BY THE UNITED STATES FISH COMENT OF A PLANKTON COMESENT TO SAVOY, TEXAS, BY THE UNITED STATES COMESENT OF A PLANKTON COMESENT TO SAVOY, TEXAS, BY THE UNITED STATES COMESENT TO SAVOY, TEXAS, BY THE UNITED STATES COMESENT TO SAVOY, TEXAS, BY THE UNITED STATES FISH COMESENT TO SAVOY, TEXAS, BY THE UNITED STATES FISH COMESENT TO SAVOY, TEXAS, BY THE UNITED STATES FISH COMESENT TO SAVOY, TEXAS, BY THE UNITED STATES FISH COMESENT TO SAVOY, TEXAS, BY THE UNITED STATES FISH COMESENT.
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A BIOLOGICAL SURVEY DE THE BOSQUE RIVER SYSTEM, MACO, TEXAS.**

GROWTH STUDY OF ICTIOBUS BUBALUS IN LAKE WACO, TEXAS.**

FOOD HABITS OF FISH DETAILS BURALUS IN LAKE WACO, TEXAS.**

FOOD HABITS OF FISH DETAILS BURALUS IN LAKE WACO, TEXAS.**

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ALGOMPARATIVE STUDY OF RESH WATER RIDGE FROM TEXAS.**

ALGOMPARATIVE STUDY OF BRACKISH WATER FISHES. IN SALT WATER.**

ALGOMPARATIVE STUDY OF BRACKISH WATER FISHES.**

ALIMNOLGGICAL INVESTIGATION OF A REESH WATER FISHES.**

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ALIMNOLGGICAL INVESTIGATION OF A RESH WATER ROUALITY CONSERVATION. REPORT ON A BASIC STUDY OF WATER QUALITY DATA.** ARRAWASA-RED RIVER SASINS WATER QUALITY STUDY OF LAKE FEXONA.**

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ALINNOLGGICAL AND MADOR STUDY OF WATER QUALITY STUDY OF LAKE FEXONA.**

ALITY CONSERVATION. REPORT ON A BASIC STUDY OF WATER QUALITY STUDY OF LAKE FEXONA.**

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BY THE INTERNATIONAL BCUNDARY COMPISSION OF THE UNITED STATES AND MEXICO, 1892—1894.* REPORT ON THE MONSTITUTION AND COLLECTED IN CONNECTION WITH THE UNITED STATES AND MEXICAN BOUNDARY SURVEY. MAJOR WILLIA STITUTION, AND COLLECTED IN CONNECTION WITH THE UNITED STATES AND MEXICAN BOUNDARY SURVEY, UNDER LT. C WITH OF SERVEY OF THE UNITED STATES AND MEXICAN BOUNDARY SURVEY, UNDER LT. C WITH OF SERVEY OF MENDES OF THE MISSISSIPPI RIVER FERRES INHABILING THE FRESH WATERS OF THE UNITED STATES OF MEMORICA WEST OF THE MISSISSIPPI RIVER (PERCIDAE).* A COMPARISON OF MERISTIC MEANS AND VARIANCES OF WILLD AND LAB RAISED SAMPLES OF THE FISHES NO SMORTAGES.* A NEW TEXAS OF ARTER HADROPIEUS SCIERCS, WITH A DISCUSSION OF VARIATION OF THE LATTER.* FIRST RECORDS FROM TEXAS SUBSPECIES, IPPIED NO THREE NEW SPECIES AND NOTES ON THEIR VARIATION AT THE FEDERAL FISH HATCHERY, SAN MARCOS, T VEGETATION OF SAN MARCOS SPRINGS.*
THE OC +RHODOPHYTA
                                                                                              HTHYS IN TEXAS.*

"DIFFERENCES IN THE DEVELOPMENTAL TEMPERATURE TOLERANCE FOR FISHES OF THE GENERA SIGNALOSA AND HERIC

"DIFFERENCES IN THE DEVELOPMENTAL TEMPERATURE TOLERANCE OF CENTRAL TEXAS AND ARKANSAS-MISSOUR! ETHEOSTOMA SP

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DEVELOPMENTAL TEMPERATURE TOLERANCE OF TEXAS AND ARKANSAS-MISSOUR! ETHEOSTOMA SP

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DEVELOPMENTAL TEMPERATURE TOLERANCES OF 4 ETHEOSTOMATIME FISHES OCCURING IN TEXAS

IN ANDREWS COUNTY, TEXAS.*

ITANASPLANT STUDIES WITH PHYSA ANATIMA LEA (GASTROPDDA)

TRANSPORT OF NITROSYLRUTHENIUM IN AN AQUATIC ENVIRONME

OSTRUCTURE OF AN AREA OF THE THE BOTTOM OF LAKE TRAVIS.*
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                                          SPECIES
                                   THOREA RIEKEI SP. MOV. AND RELATED SP. ACV. AND RELATED SP. AFRICAN MOUTHBREEDER TILAPIA MOSSAMBICA PETERS, IN TEXAS.=
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## Index to Texas Parks and Wildlife Department Reports

The research of the Inland Fisheries section of the Texas Parks and Wildlife Department is primarily directed toward management and population manipulation, but limnological data are often collected along with considerable information on the fishes. Most of this research is supported through the Federal Aid in Fisheries Restoration Act (Dingle-Johnson). Information from these projects is published by the Department as mimeographed progress and completion reports. Although the data are necessarily sometimes fragmentary because of the nature of the program, this is often the only information available about a particular body of water.

The names of the bodies of water listed in reports through June 1966 have been arranged alphabetically in a table. The table also contains identifying information for the reports concerned and a series of numbers indicating the type of data available. A code to the data numbers faces the first page of the table.

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UP THE LEAMS		Physical-Chemical	17. Water Temperature	18. Dissolved Oxygen	19. Alkalinity	20° pH	21. Turbidity & Light	22. Currents	23. Volume of Lake or Reservoir	24 Volume of Stream Flow		26. Chloride & Salinity
BLE III. CODE TO THE TYPE OF DAIA AVAILABLE IN THE LISTED KEPOKIS OF THE TEASS PARKS AND WILDLIFE DEPARTMENT	LIMNOLOGY	Organisms	ll. Algae	12. Fungi	13. Invertebrates	14. Vascular		Habitats	15. Plankton	l6. Benthos		
I. CODE TO THE TYPE OF U	FISHERIES		Poisoning Collection	Gillnet Collection	Seine Collection	Trap Collection	Electrofishing	Species List	Length-Weight	Percent Composition	K factor	Stomach Analysis
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TYPE OF DATA	3,8,2] 1,3,6,10,13,17,18,20,21,25 1,13,15,17,18,19,20,21 2,3,6,8 18,19,20,26,28 2,3,6,8 1,2,3,6,8 1,2,3,6,8 1,2,3,6,8 2,3,6,7,9,10,18,19,21,25,26,28 2,3,6,7,9,10,17,18,19,20,21,25,28 2,3,6,7,9,10,17,18,19,20,21,25,28 2,3,6,7,9,10,17,18,19,20,21,25,28 2,3,6,8 2,3,6,7,9,10,17,18,19,20,21,25,28 2,3,6,8 2,3,6,9 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 1,2,3,6,8 1,2,3,6 2,3,6,8 1,2,3,6 2,3,6,8 2,3,6,8 1,2,3,6 2,3,6,8 1,2,3,6 2,3,6,8 1,2,3,6 2,3,6,8 1,2,3,6 2,3	2,3,6 2,3,6 2,3,6,8,9,10,14,20,26,28
REPORT SUBJECT	Reconnaissance sh Study kill vey tion Reconnaissance Survey Kill Study vey vey y and Inventory Reconnaissance Reconnaissance Reconnaissance vey vey vey Reconnaissance vey vey Reconnaissance vey vey Reconnaissance vey vey vey vey vey vey vey vey vey ve	Fish Reconnaissance Fish Reconnaissance Fish Reconnaissance Fish Reconnaissance
DATE	12/31/61 12/31/61 12/31/61 10/31/59 10/31/63 1/31/60 10/31/64 4/20/65 4/20/65 4/20/65 4/20/65 12/31/64 12/31/64 12/31/64 12/31/64 12/31/60 12/31/61 12/31/61 12/31/61 12/31/61 13/31/63 13/1/55 8/9/59 10/31/64 8/5/60 1/31/65 4/7/59	1/31/64 1/31/64 1/31/65 12/31/61
30B NO.	B-21 B-22 B-22 B-23 B-23 B-23 B-23 B-23 B-23	B-22 B-22 B-22 B-18
PROJECT NO.	F-8-7 F-18-7	F-2-R-11 F-2-R-11 F-2-R-12 F-7-R-9
BODY OF WATER		Lake Buchanan Lake Buchanan Lake Buchanan Buffalo Springs Lake

BODY OF WATER	PROJECT NO.	J08 N0.	DATE	REPORT SUBJECT	TYPE OF DATA	
Buffalo Springs Lake	F-7-R-10	B-18	12/31/62	Fish Reconnaissance	2,3,6,8,9,10	
Springs L	F-7-R-11	ı	6/2/64	Reconnaissance	2,3,6,7,8,9,10	
	E_7_0_3	<b>V</b>	1/6/39 5/31/56	risheries survey Survey (lab)	6,3,0,3,10,17,13,20,23,24,20 6,7 0,10	
Buffalo Lakes	F-7-R-3	t On	5/31/56		6,8,11,13,17,21,23,26,28	
	F-7-R-3	<u>سم</u> ا	5/31/55		26	
	F-4-R-4	on T	5/31/57	<b>&gt;</b> -	2,3,7,8,10,12,17,20,21,26,28	
	F-7-R-5	B-9	5/31/58		2,3,6,8,9,10,12,17,20,21,26,28	
Buffalo Lakes	F-7-R-7	-14	7/28/59	Vey	2,3,6	
Lake	F-7-R-10	8	12/31/62	Reconnaissance	2,3,6,8,9,10	
Buffalo Lakes	F-7-R-11	-18	6/2/64	Reconnaissance	2,3,6,7,8,9,10	
Caddo Lake	F-3-R-9	1	1/31/62	Reconnaissance	2,3,6,7,8,9,14,19,20,26	
Caddo Lake	F-3-R-10	ī	1/31/63	Reconnaissance	2,3,6,7,8,9,14,19,20,26	
Caddo Lake	F-3-R-10	8-19	1/31/63	Study	2,6,10	
Caddo Lake	F-3-R-11	જ	1/31/64	Reconnaissance	2,3,6,9,19,20,21,26	
Caddo Lake	F-3-R-12	B-18	6/4/65	onnaissance	2,9,14,19,20,23,24,26	
Campacuas Lake	F-6-R-5	8-11	1/28/60		2,3,6,7,8,17,19,20,21,23	
Campacuas Lake	F-6-R-7	B-11	12/31/59		2,3,7	
Campacuas Lake	F-6-R-8	B-1	12/31/60		2,3,7,8,14	
Campacuas Lake	F-6-R-11	B-20	12/31/63		2,3,7,9,10,21,23	
Campacuas Lake	F-6-R-12	B-20	12/31/64	ance	2,3,6,7,9,18,19,20,21,23,25	
Campacuas Lake	F-14-D-3	-14	5/31/59		6,8,23, map	
Canadian River	F-7-R-2	A-1-B-5	5/31/55	Basic Survey	3,6,11,19,20,24,26,28	
Canadian River		<u>-</u>	5/31/55		2,19,20,25,26,28	
Canadian River		Cl-(Part2)	5/31/55	ation Surve	3,20,26,28	
Canadian River	F-7-K-7	8-14	7/28/59	Resurvey	2,3,6	
Canadian River	F-7-R-7	5	3/13/60	Study	19,20,27,28	
Canadian River	F-7-R-10	<u>"</u>	12/31/62	Pollution Study	2,18,19,20,24,26,27,28, maps	
Canadian River	F-7-R-11	3-18	6/2/64	ssance	2,3,6,7,8,9,10	
Lake Caney	F-8-R-5	B-17	12/31/58	Catfish <b>St</b> udy	2,3,6,8,9,10,19,20,28	
Lake Caney	F-8-R-6	B-17	12/31/59		2,3,6,7,9,10,17,18,19,20,21,25,26,	28
	F-8-R-7	8-17	12/31/60	Study	2,3,6,7,8,9,10,17,1-,19,20,21,25,26	6,28
Lake Caney	F-8-R-8	F1-1	12/31/60	Catfish Study	1,3,6,10,13,17,18,20,21,25	
Lake Canyou	F-2-R-12	B-22	1/31/65	issance	2,3,6	
Blanca	F-6-R-4	8-7	5/1/58	rvey	2,3,6,7,9,10,13,17,18,19,21,25	
Blanca	4	B-13	4/13/59		2,3,6,7,9,14,17,18,19,20,21,23,25	
Casa Blanca Lake	F-6-R-7	B-11	12/31/59	Resurvey	2,3,/	

TYPE OF DATA	2,3,7,8,14 2,3,6,7,8,9,10,13,14,18,19,20,21,	3,8,21 2,3,6,8,9 2,3,6,8,9	2,3,6,9,10 2,3,6,9	2,3,6,8,9,10,14,20,26,28	2,3,6,7,8,9,10	;	0,21,25 4,28	2,3,6,9,11,14,18,19,20,24,28 2,3,6,7	1,2,7,8,17,23	2,6	2,6,8,14	2,3,6,9	2,3,6,7,8,9,17,19,20,23,24,28	2,3,6,8,9	2,3,6,8,9 2,5,0,10		2,3,6,9,14,17,18,19,20,21,24,25,26		51 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	2,3,6,8,9,10,19,20,28
REPORT SUBJECT	Resurvey Fish Reconnaissance	<b>L</b> _	Fish Reconnaissance Fish Reconnaissance		Fish Reconnaissance	Fish Reconnaissance Fish Reconnaissance	Basic Survey Basic Survey	Basic Survey Fish Reconnaissance	CuSO <sub>4</sub> Experiments	Fish Reconnaissance	Fish Reconnaissance Fish Reconnaissance	Reconnaiss	rish keconnaissance Inventory	Resurvey	Fish Reconnaissance Fish Reconnaissance	Fish Reconnaissance	Basic Survey	Resurvey	Fish Reconnaissance	rysn keconnaissance Catfish Study
DATE	12/31/60 12/31/61	12/31/61 11/9/61 6/28/62	10/24/63 2/29/64	12/31/61	6/2/64		4/29/58 9/24/59				1/31/62 1/31/64	2/29/64	1/31/65	11/9/61	6/28/62	2/29/64	4/6/59	8/9/59	22	12/31/58
J08 N0.	B-11 B-20	B-21 B-22 B-32	1 1	1 1			1 1	E 1			B-22 B-22	` i `	7 7	17	ÌÉÌ	1	Ĺ	1	i i	ř i
PROJECT NO.	F-6-R-8 F-6-R-9	F-8-R-8-5-R-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8	F-5-R-10	F-7-R-9	F-7-R-11	F-8-R-10	F-5-R-4 F-5-R-6	F-5-R-7 F-8-R-10	F-3-R-10	F-4-R-11	F-2-R-9 F-2-R-11	F-2-R-11	F-2-K-12 F-5-R-7	F-5-R-8	F-5-R-9	F-5-R-13	F-5-R-4	F-5-R-6	F-5-R-9	F-5-K-10
BODY OF WATER	Casa Blanca Lake Casa Blanca Lake	ake Creek Creek	Champion Creek Lake Champion Creek Lake	Lake Childress	Lake Childress		Clear Fork, Brazos R. Clear Fork, Brazos R.	OS	3-H Club Lake	Lake Coleman	Colorado River Colorado River	Colorado River	Colorado Kiver Lake Colorado Citv	Lake Colorado City	Lake Colorado City	Lake Colorado City	Upper Colorado River	Upper Colorado River	Upper Colorado River	Upper Colorado Klyer Coffee Mill Lake

52	1,25,	1,25,							23,25										0 0	25,26,28	1,25,26,28				χ 7										
TYPE OF DATA	2,3,6,7,8,9,10,17,18,19,20,2	2,3,6,7,8,9,10,17,18,19,20,21,25,	1,3,6,10,13,17,18,20,21,25	2,3,6,7	2,3,6,7,28	2,3,6	2,3,6,9	13,14,18,19,20,21,23,25	2,3,6,7,9,14,17,18,19,20,21,	2,3,6,7,9,17,19,20,21,23	2,3,7,9,14	2,3,6,7,8,9,23	2,3,7,9,10,21,23	2,3,6,7,9,18,19,20,21,23,25	2,3,6,7,8,9,10,23	2,3,6,7	2,14,19,20,23,28	2,3,6,7	2,3,6,8,9,10,19,20,28	2,3,6,7,9,10,17,18,19,20,21,	2,3,6,7,8,9,10,17,18,19,20,2	1,3,6,10,13,17,18,20,21,25	2,3,6,7	2,3.6,7,28	2,3,6,7,9,(0,18,19,21,25,25,	2,3,7,9,19,20,21,26	2,3,6,9,10,14,18,26	2,3,6,8,9,10,23	2,3,6,7,9	2,3,6	2,3,5,7,8,9,14,19,20,26	2,3,6,7,8,9,14,19,20,26	2,3,6,10	2,3,6,9,19,20,21,26	2,9,14,19,20,23,24,26
REPORT SUBJECT	Catfish Study	Catfish Study	Catfish Study		<u>~</u>		issance	rvey				Fish Reconnaissance	Fish Reconnaissance	Fish Reconnaissance	Inventory of Species	Fish Reconnaissance	Plant Control	Fish Reconnaissance	Study	Catfish Study	Study		กกลโรรสกсе			vey	Reconnaissance	onnaissance			sance	Reconnaissance		Reconnaissance	Fish Reconnaissance
DATE	12/31/59	12/ /60	12/31/61	4/17/64	8/4/64	3/3/61	2/29/64	6/20/55	4/13/59	1/28/60	12/31/60								$\sim$		12/31/60	12/31/61	4/17/64	8/4/64	12/31/58	12/31/60	4/1/65	4/20/65	8/11/60	5/21/59	1/31/62	1/31/63	1/31/63	1/31/64	6/4/65
JOB NO.	B-17	71-8	[-]	8-21	F-1	B-16	B-32	A-3	8-11	8-33	8-3-	B-20	B-20	B-20	B-19	8-21	E-7	B-21	B-17	B-17	B-17	)  -  -	B-21		B-16	B-16	B-21	B-18	8-15	E-3	8-18	B-18	B-19	ထို	B-18
PROJECT NO.	F-8-R-6	F-8-R-7	F-8-R-8	F-8-R-10	F-8-R-10	F-6-R-8	F-5-R-11	F-6-R-182	F-6-R-5	F-6-R-6	F-6-R-8	F-6-R-10	F-6-R-11	F-6-R-12	F-4-R-5	F-8-R-10	F-2-R-11	F-8-R-10	F-8-R-5	F-8-R-6	F-8-R-7	F-8-R-8	4	F-8-F-10	F-8-R-5	F-8-R-7	춨	F-7-R-12	F-3-R-7	F-3-R-6	F-3-R-9	4	-3-R	4	F-3-R-12
BODY OF WATER	Coffee Mill Lake	Coffee Mill Lake	Coffee Mill Lake	I L	M. I	-	Concho River	Lake Corpus Christi			Corpus			Corpus			α	Crestlenn Lk Cutoff	Crockett	Crockett	Davy Crockett	Crockett	Crockett	Lake Davy Crockett #1	Lake Crook	Lake Crook	5	~ ~ 1			<u></u> B.	E E	<u></u>	<u></u>	Dam "B" Reservoir

			21,	•						23,25,	L G	23,25					С.						ထ						53		
TYPE OF DATA	_ ~	Z,3,0,9 map	2,3,7,8,14 2,3,6,7,8,9,10,13,14,18,19,20,21,	23,25, map	2,3,6,7,8,9,23	2,3,7,9,10,21,23	2,3,0,7,3,60,13,20,21,23,20	2,3,6,9,10	2,3,6,9	2,3,6,7,8,9,10,17,18,19,20,21,	20,28, map	2,3,6,7,8,9,10,17,18,19,20,24,	2,6,8	2,3,6,9, tagging	2,3.6,9	14,17,18,19,20,21,24,25,26	2,3,6,17,18,19,20,21,25,26, ma	2,3,6,9, tagging	2,6	1,2,6,9,10,12,13	18,20,25,26	6,7,10,12,13	1,2,3,6,7,8,9,14,17,19,20,26,2	2,7,8,9,10,17,20,21,28	2,3	2,3,6,7,8,9,10,17	2,3,8, map	1,2,3,6,7,8,9,10,17	2,3,6,8, map	2,6,10	23, тар
REPORT SUBJECT	Food Study Inventory	onnaissance rvey	issance			Reconnaissance	Keconna issance	onnaîssance	Reconnaissance	tory		>			ssance		>		onnaissance		ion Study		urvey		h Spe		h Spe	ol Survey	sance		SurveyMap
DATE	1/31/65 7/31/61	10/31/65 4/25/58	12/31/60		12/31/62	12/31/63	11/9/61	10/24/63	2/29/64	6/30/54	;	6/30/55	6/17/60	2/28/66	2/29/64	6/30/54	6/30/54	2/28/66	10/21/64	5/31/54	5/31/54	5/31/55	5/31/57	5/31/58	5/31/59	7/17/59	12/31/59	4/8/60	11/31/62	1/31/63	10/15/57
J0B N0.	B-20 B-20	8-29 A-5	B-11 B-20	) 1	B-20	8-20 6-20	8-20 8-20	B-32	B-32	8-4		B-4	B-19	<b>L</b> ~	B-32	A-4	B-6	_	B-29	B-4	٦	B-4	E-2	E-2	8-15	E-2	B-15	F2	B-22	B-20	<b>A-</b> 6
PROJECT NO.	F-3-R-12 F-5-R-8	F-5-R-4	F-6-R-8 F-6-R-9		F-6-R-10	F-6-R-11	1-0-K-1	F-5-R-10	F-5-R-1	F-9-R-1		F-9-R-2	F-9-R-6	F-18-R-1	F-5-R-11	F-9-R-1	F-9-R-1	F-18-R-1	F-4-R-11	F-7-R-1	F-7-R-1	F-7-R-2	F-7-R-4	F-7-R-5	F-7-R-6	F-7-R-6	F-7-R-7	F-7-R-7	F-9-R-10	F-3-R-10	F-6-R-4
BODY OF WATER	Dam "B" Reservoir Lake Daniel	Lake Danjei Deep Creek	Delta Orchards Lake		Orchards		Deita Urchards Lake Dewills (ake	Devil's Lake		Devil's Lake		S			S	ري دي	S	] <sub>S</sub>	Lake Diversion			Lake Diversion					Lake Diversion	Lake Diversion	ш	Lake	Dodds & Bruneman Lk

54	1,25,26,28	,23,25,26,28 28 ,20,21 1,23,25 ,20,21	1,25, 26,28 ,21,25,26,28 28
TYPE OF DATA	23, map 2,8,23 2,6,7,8 6,9 2,3,6,9 2,3,6,10,20,23 2,3,6,8,9,10,14,20,26,28 map 2,3,6,8,9,10,19,20,28 2,3,6,7,9,10,17,18,19,20,2	2,3,6,7,8,9,10,17,18,19,20,23,25,26,28 2,3,6,17,21,23 23, map 2,3,6,17,18,19,20,21,23,25, map 2,3,6,7,8,9,10,13,14,18,19,20,21 2,3,6,7,8,9,10,13,14 2,3,6,7,9,14,17,18,19,20,21,23,25 2,3,6,7,9,14,17,18,19,20,21,23,25 2,3,6,7,9,17,19,20,21,23 2,3,6,7,9,17,19,20,21,23 2,3,6,7,9,17,19,20,21,23 2,3,6,7,9,17,19,20,21,23 2,3,6,7,9,17,19,20,21,23	17,20 2,3,6,8,9,10,19,20,28 2,3,6,7,9,10,17,18,19,20,2 2,3,6,7,8,9,10,17,18,19,20 1,3,6,10,13,17,18,20,21,25 17,18,20,28 2,3,6,7,28 2,3,6,9,17,18,19,20,21,25,1,6,20,23
REPORT SUBJECT	SurveyMap Shad Control Resurvey Resurvey Resurvey Fish Reconnaissance Fish Reconnaissance Survey Fish Reconnaissance Survey Catfish Study	Study Study nt. Reconn. -Map urvey connaissance urvey y y	Plant Control Catfish Study Fish Study Catfish Study Catfish Study Catfish Study Catfish Study Catfish Study Fish Reconnaissance
DATE	10/15/57 9/30/61 6/30/60 1/1 <b>8</b> /60 2/10/61 10/31/61 12/31/61 12/31/69 12/31/59	12/ /60 5/18/65 2/28/66 10/15/57 6/30/59 12/31/61 3/3/61 6/30/57 4/13/59 1/28/60	5/31/58 12/31/58 12/31/59 12/ /60 12/31/61 12/31/62 8/4/64 5/18/65 11/19/58 2/10/61
308 NO.	A-6 16a-31 B-19 B-26 B-29 B-29 B-18 A-6	B-17 B-17 B-14 B-20 B-16 B-11 B-11	E-2 B-17 B-17 E-1 E-1 E-1 B-26 B-29
PROJECT NO.	F-6-R-4 F-14-R-5 F-4-R-6 F-4-R-8 F-4-R-9 F-7-F-5 F-7-R-9 F-7-R-9 F-7-R-9	F-8-R-7 F-8-R-7 F-6-R-4 F-6-R-6 F-6-R-6 F-6-R-8 F-6-R-5 F-6-R-5	F-3-R-5 F-8-R-5 F-8-R-6 F-8-R-7 F-8-R-9 F-8-R-10 F-8-R-11 F-4-R-5 F-4-R-7
BODY OF WATER	Donna Tract Lake Lake Duncan Lake Dunlap Eagle Mountain Lake Eagle Mountain Lake Eagle Mountain Lake Lake Eddleman Lake Eddleman Lake Edlibert Lake Elliott		Feather Lake Ferndale Club Lake Fincastle Lake Fincastle Lake

TYPE OF DATA	2,3,6,9,10,14,18,26	map 2,3,6,9,10,17,18,19,20,21,25,28	2,3,7	2,3,6,7,8,9,10,13,14,18,19,20,21,	23,25, map 2,3,7,9,19,21,23	2,3,6,7,9,18,19,20,21,23,25	2,3,6,7,8,9	2,3,6,10	2,3,6,9,10,14,18,26	2,3,6,7,9,17,20,23	່ວ່ານູ້ວິດ ກຸກ ກຸກ ກຸກ	2,3,6,9	2,3,6,9	3,4,6,28	1,17,19,20,21,23,28	3,8,71 3,3,6,0	2,3,6,7,8,9,10,13,14,18,19,20,21	23,25, map	7 2 7 8 9 JO	2,3,6,7,8,9,10	2,3,6,7,9,10,18,19,21,25,26,28	2,3,7,9,10,20,21,26	3,8,21	2,3,6,8,9,10,19,20,28	3,5,51 2 3 6 8 6 10 10 20 28	17,18,20,28
REPORT SUBJECT	connaissance connaissance	rvey	ey	resurvey Fish Reconnaissance		Fish Reconnaissance	*es Reconnaissance	Reconnaissance	nnaissance		Inventory Posturvev		ance	tudy	Study	Reconnal Stance	Fish Reconnaissance		Reconnaticance	Fish Reconnaissance	Resurvey	Resurvey	Fish Reconnaissance	Catfish Study	Cattle Ctudy	Catfish Study
DATE	4/1/65 1/31/65	5/16/59 10/18/57	12/31/59	12/31/61	12/31/63	12/31/64	10/31/61	12/31/62	4/1/65	4/15/57	84///8	8/5/60	2/23/64	3/26/59	12/31/60	12/31/61	1/31/64	13/06/11	29/18/21	6/2/64	12/31/58	12/31/60	12/31/61	12/31/58	12/31/01	12/31/62
J08 N0.	B-21 B-22	ည ထ ထ ထ	B-11	B-20	B-20	B-20	B-29	B-21	B-21	က် ကြို့	20 m 20 m 20 c	8-22	B-32	ر- ً	8-18	B-21	B-20	c c	27-0 B-18	2 <u>2</u> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	B-16	B-16	B-21	B-17	12-9 6-0	E-1/
PROJECT NO.	B-8-R-;; F-2-R-12	F-6-X-5	F-6-R-7	F-6-R-9	~	F-6-R-12	F-4-R-8	F-8-R-9	F-8-R-11	다. 다. 다. 다.	T-0-K	F-5-R-7	F-5-R-11	F-12-R-4	F-8-R-7	2-X-X-1	F-Z-K-1 i F-6-R-9	C C L	F-9-K-9	F-7-R-11	F-8-R-5	F-8-R-7	F-8-R-8	F-8-R-5	7-8-7 0 1	F-8-R-9
BODY OF WATER	t Creek e Flatr	Brown Brown	Brown		Ft. Brown Lake	Ft. Brown Lake	Ft. Parker Lake	Ft. Parker Lake	e e	، احد ، احد ، احد ،	Et. Phantom Hill LK	- ,		Fralise Lake	Franklin Lake	Franklin Lake	Frio River Frio River			Lake Froer	a-Little Elm	Garza-Little Elm Lk	1-Little Elm	Lake Gibbons	יססמוב לייר?	Glass Club Lake

TYPE OF DATA	2,3,6,9,17,18,19,20,21,25,28 2,6,7,8 1,2,3,6,8 1,2,3,6 2,3,6 2,3,6 2,3,6 2,3,6,8 1,19,20,28 2,3,6,9 2,3,6,9 2,3,6,9 2,3,6,7,9,10,18,19,21,25,26,28 2,3,6,7,9,10,18,19,21,25,26,28 2,3,6,7,9,10,18,19,21,25,26,28 2,3,6,7,9,10,21,25,26,28 2,3,6,7,9,10,23,28 2,3,6,7,8,9,10,23 2,3,6,7,8,9,10,23 2,3,6,7,8,9,10,23 2,3,6,7,8,9,10,23 2,3,6,7,8,9,10,23 2,3,6,7,8,9,10,23 2,3,6,7,8,9,10,23 2,3,6,7,8,9,10,23 2,3,6,7,8,9,10,23 2,3,6,7,9,18,19,20,21,23,25
REPORT SUBJECT	Catfish Study Resurvey Species Inventory Resurvey Plant Control Resurvey Fish Reconnaissance
DATE	5/18/65 6/30/60 1/ /56 4/7/59 1/31/59 1/31/62 1/31/63 1/31/63 1/31/64 1/31/64 1/31/64 12/31/64 1/31/64 12/31/64 1/31/64 1/31/64 1/31/64 1/31/65 6/17/60 11/30/60 11/30/60 11/30/60 11/30/60 11/30/60 11/30/65 12/31/64
JOB NO.	E-1 B-19 B-19 B-20 B-20 B-22 B-22 B-22 B-22 B-23 B-24 B-25 B-26 B-27 B
PROJECT NO.	F-8-R-11 F-2-R-3 F-2-R-3 F-2-R-6 F-2-R-6 F-2-R-7 F-2-R-9 F-2-R-10 F-2-R-10 F-2-R-10 F-2-R-10 F-2-R-10 F-2-R-11 F-2-R-10 F-3-R-12 F-3-R-13
BODY OF WATER	Glass Club Lake Gonzales Reservoir Lake Granite Shoals Lake Halbert Lake Halbert Lake Halbert Lake Halbert Lake Halbert Harlington City Lake Harlington City Lake

TYPE OF DATA	14,17,19,20 1,14,19,20,23,28 1,14,19,20,23,28 1,14,19,20,23,28 1,7,20 2,3,6,8 1,2,3,4,5,6,7,8,9,10,11,12,13,14,19,20,23,28 2,3,6,9,10,14,18,26 2,3,6,10 2,3, map 2,6,8 2,3,6,10 2,3,6,8,9	3,6,8,13,21 3,6 3,6 2,3,6,8
REPORT SUBJECT	Plant Control Plant Control Plant Control Plant Control Plant Control Resurvey Poblems Resurvey Resurvey Plant Control Fish Reconnaissance Basic Survey Fish Reconnaissance Fish Reconnaissance Fish Reconnaissance Fish Reconnaissance Fish Reconnaissance Inventory Inventory Inventory Fish Reconnaissance Poblems Resurvey Fish Reconnaissance Fish Reconnaissance Fish Reconnaissance Fish Reconnaissance Inventory Inventory Fish Reconnaissance Fish Reconnaissance Fish Reconnaissance Ex. Marine Stocking Fish Reconnaissance	intro. Intro. issance
DATE	1/31/60 1/31/64 1/31/64 1/31/64 1/31/64 5/31/58 12/31/59 12/31/60 1/31/63 1/31/63 1/31/63 1/31/63 1/31/63 1/31/63 1/31/63 1/28/58 6/28/62 1/29/64	1/28/64 2/28/65 1/31/65 1/31/58 4/7/59
.00B NO.	E-4 E-7-7-1 B-22-1 B-23-1 B-33-1 B-33-1 B-33-1 B-33-1 B-33-1	F-1 F-1 B-22 B-20 B-20
PROJECT NO.	F-2-R F-2-R F-2-R F-2-R F-12-R F-12-R F-12-R F-12-R F-12-R F-12-R F-12-R F-12-R F-12-R F-12-R F-12-R F-12-R F-13-R F-	F-5-R-12 F-2-R-12 F-2-R-5 F-2-R-5
BODY OF WATER		Imperial Reservoir Imperial Reservoir Lake Ingram Lake Inks Lake Inks

BODY OF WATER	TER	PROJECT NO.	JOB NO.	DATE	REPORT SUBJECT	TYPE OF DATA
ake Inks	u.	:-2-R-6	E-4	1/31/59	Plant Control	17,18,19,20,25
		F-2-R-7	B-20	1/31/60		
	<b>L</b>	-2-R-8	B-20	4/18/61		2,3,6
Lake Inks	<b>1-1-2</b>	F-2-R-9	B-24	4/6/62	ey	2,6,8
Lake Inks	<u>.</u>	-2-R-10	B-24	1/31/63		(
Lake Inks		:-2-R-11	B-24	1/31/64		2,3,6,8,17,18,19,20,25,26
		<sup>-</sup> -2-R-12	B-24(a)	6/23/65		2,3,6,17,18,19,20,25,26
	-	2-R-12	E-7	1/31/65	_	1,19,20,28
	_	F-14-D-6	16a-35	4/1/62		2,6,23, map
		4-R-12	B-29	10/31/65	aissance	2,3,6,9
Isabe		6-R-4	A-6	10/15/57	Map	23, map
_	<b>10-10-0</b>	2-R-11	E-7	1/31/64	Control	1,14,19,20,23,28
Johnson		2-R-11	E-7	1/31/64	Control	1,14,19,20,23,28
-0		7-R-12	B-18	4/20/65	Reconnaissance	2,3,6,8,9,10,23
		-4-R-11	B-29	10/31/64	Reconnaissance	2,6
	_	4-R-12	B-29	10/31/65	nnaissance	2,3,6,9
	_	=-7-R-1	B-1	5/31/54	ory	2,3,6,7,10,21,23,26,28
	_	7-R-1	B-4	5/31/54		1,2,3,6,9,10,12,13
		F-7-R-1	<u>-</u>	5/31/54	ion <b>Stu</b> dy	18,20,25,26
		F-7-R-2	B-4	5/31/55		6,7,10,12,13
	_	F-7-R-3	F-1	5/31/55		26
		F-7-R-6	B-14	7/28/59		2,3,6
Kerens Lake		F-8-R-10	B-21	4/17/64		2,3,6,7
Lake Kickapoo		F-4-R-10	B-29	10/31/63		5.
		F-4-R-11	B-29	10/31/64	econnaissance	2,6
	_	F-7-R-1	B-4	5/31/54		1,2,6,9,10,12,13
	_	F-7-R-1	٦-	5/31/54	ion Study	18,20,25,26
		F-5-R-2	B-4	5/31/55		6,7,10,12,13
	_	F-5-R-7	B-26	09/1//	Inventory	2,3,6,7,19,20,23,28
		F-5-R-8	B-22	11/9/61		2,3,6,8,9
Ë		F-6-R-7	A-6	12/31/59		
0		(7)	B-14	9/29/29	rvey	2,3,6,9,17,18,19,20,21,23
<del>-</del> 0		F-3-R-8	B-16	4/13/61	vey	2,3,6,9,14,19,20,21,26
Lake 0' the Pines	S	F-3-R-9	B-18	_	Reconnaissance	2,3,6,7,8,9,15,19,20,26
0' the	S	F-3-R-10	B-18	1/31/63	Reconnaissance	,6,7,8,9,14,19,20,2
0' the	Si	R-1	B-29	1/31/63	Food Study	2,6,10

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	• 56	59
TYPE OF DATA	2,3,6,7,19,20,21,26 2,10,12 2,9,14,19,20,23,24,26 2,10 2,3,6 3,6,11,14,20,21,25 1,2,3,6,9,10,14,17,20,21,25,26 2,3,6,9,10,20,21,26 1,17,19,20,21,23,28 1,17,19,20,21,23,28 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,7,9 2,3,6,7,9 2,3,6,7,9,14,17,18,19,20,23,25,26, map 2,3,6,7,9,14,17,18,19,20,23,25,26, map 2,3,6,7,9,14,17,18,19,20,23,25,3,6,7,9,16,21,23 2,3,6,7,9,14,17,18,19,20,21,23,25 2,3,6,7,9,14,17,18,19,20,21,23,25 2,3,6,7,9,14,17,18,19,20,21,23,25 2,3,6,7,9,14,17,18,19,20,21,23,25 2,3,6,7,9,14,17,18,19,20,21,23,25 2,3,6,7,9,18,19,20,21,23,25	2,3,14,17,18,19,20,21,25 History of bass map
REPORT SUBJECT	econnaissance tudy econnaissance ey Survey ory ey econnaissance econnaissance ey ey econnaissance ey ey econnaissance ey ey econnaissance econnaissance econnaissance econnaissance econnaissance econnaissance econnaissance econnaissance econnaissance	Survey Hist. of S.M. Bass Mapping
DATE	1/31/64 6/4/65 1/31/65 1/31/65 1/31/68 8/30/57 6/30/64 12/31/60 12/31/60 12/31/60 12/31/60 12/31/60 12/31/60 12/31/60 12/31/60 12/31/60 12/31/60 12/31/60 12/31/60 12/31/60 12/31/64 12/31/64 12/31/64 12/31/63 12/31/63	7/16/57 12/18/57 6/16/59
JOB NO.	B18-seg4 B02-seg2 B-18 B-20 B-20 B-20 B-21 B-21 B-21 B-21 B-22 B-22 B-22 B-23 B-23 B-23 B-23 B-23	B-11 E-2 A-6
PROJECT NO.	F-3-R-11 F-3-R-12 F-3-R-12 F-3-R-12 F-3-R-12 F-2-R-5 F-8-R-7 F-8-R-11 F-6-R-6 F-6-R-8 F-2-R-11 F-6-R-12 F-2-R-11 F-6-R-12 F-2-R-11 F-6-R-11 F-6-R-11	F-9-R-3 F-9-R-4 F-6-R-5
BODY OF WATER		Llano River Llano River Loma Alta Lake

60	26,27 5,26,28
TYPE OF DATA	2,3,6,7,9,10,18,19,21,25,26,28 2,3,6,9,10,14,18,26 23, map 23, map 2,3,6,7 1,17,19,20,21,23,28 1,2,3,8,23,24 2,3,6,7,8,9,10 2,3,6,14,17,18,19,20,23,25,28 1,2,3,6,8 2,3,6,8 1,2,3,6 2,3,6,8 2,3,6,9,10,11,14,17,18,19,20,25 1,6,7,17 2,6,7,8 2,3,6,9, map 2,3,6,10,11,14,17,18,19,20,25 1,17,19,20,21,25 2,3,6,10,10,10,10,10,10,10,10,10,10,10,10,10,
REPORT SUBJECT	Resurvey Resurvey Fish Reconnaissance SurveyMap SurveyMap Fish Reconnaissance Resurvey Plant Control Species Inventory Resurvey Resurvey Fish Reconnaissance Catfish Study Fish Reconnaissance Catfish Study Catfish Study Fish Reconnaissance Catfish Study Fish Reconnaissance Catfish Study Fish Reconnaissance Catfish Study Fish Reconnaissance K Factor Fish Reconnaissance K Factor Fish Reconnaissance K Factor Fish Reconnaissance
DATE	12/31/58 12/31/60 4/1/65 10/15/57 10/15/57 10/15/57 4/17/64 12/31/62 1/31/64 1/31/64 1/31/64 1/31/65 1/31/65 12/31/65 12/31/65 12/31/65 12/31/65 12/31/65 12/31/65 12/31/65 12/31/65 12/31/65 6/30/60 6/30/65 5/31/65 1/31/65 12/31/65
JOB NO.	B-16.  A-6  B-16.  A-6  B-16.  B-16.  B-18  B-20  B-17  B-17  B-17  B-17  B-18  B-17  B-17
PROJECT NO.	F-8-R-5 F-8-R-7 F-8-R-7 F-6-R-4 F-6-R-4 F-8-R-10 F-7-R-10 F-2-R-7 F-2-R-7 F-2-R-9 F-2-R-11 F-2-R-11 F-2-R-11 F-2-R-11 F-2-R-11 F-3-R-11
BODY OF WATER	Lone Star Reservoir Lone Star Reservoir Lone Star Reservoir Los Fresnos Lake Los Indios Lake Loy Lake McKinney Club Lake Lake McClellan Lake McClellan Lake Marble Falls Lake Marey Lake Marey Lake Maxey Lake Maxey Lake Maxey Lake Maxey Medina Lake

ļ	21,25,26,28	61
TYPE OF DATA	2,3,6,9,10,14,18,26 2,3,6,7,9,19,20,26 map 2,3,6,9 2,3,6,9 2,3,6,8 2,3,6,8 2,3,6,9 2,3,6,7 2,8,23 2,3,6,7 2,8,23 2,3,6,7 2,8,23 2,3,6,7 2,8,23 2,3,6,7 2,8,23 2,3,6,7 2,8,23 2,3,6,7 2,8,23 2,3,6,7 2,8,23 2,3,6,7 2,8,9,14,17,18,19,20,21 2,3,6,7,8,9,14,19,20,26 2,3,6,7,8,9,14,19,20,26 2,3,6,7,8,9,14,19,20,26 2,3,6,7,8,9,14,19,20,26 2,3,6,7,8,9,14,15,17,21,28 2,3,6,9,19,20,23,24,26 2,3,6,8,14 2,3,6,8 2,3,6,8,9 1,2,6 2,3,6,8,9 2,3,6,9	2,3,6,7 2,3,6,7
REPORT SUBJECT		keconnalssance Kill Reconnalssance
DATE	4/1/65 11/17/59 12/31/59 7/1/59 8/5/60 5/16/59 10/31/58 8/9/59 6/28/62 2/29/64 4/17/64 9/30/61 1/31/63 1/31/63 1/31/63 1/31/64 6/4/65 1/31/64 6/4/65 1/31/64 1/31/64 1/31/64 1/31/64 1/31/64 1/31/64 1/26/61 1/26/61	4/1/63 5/10/63 4/17/64
JOB NO.	B-21 B-21 B-25 B-25 B-25 B-27 B-32 B-13 B-13 B-13 B-13 B-13 B-22 B-22 B-22 B-22 B-22 B-22 B-22 B-2	b-21 16a-43 B-21
PROJECT NO.	F F F F F F F F F F F F F F F F F F F	F-8-K-11 F-14-D-7 F-8-R-10
BODY OF WATER	ake  River  River  Creek Lake  Creek Lake  In Creek  In	Navarro Milis Res. Navarro Mills Res. Navasota River

Navidad River   F-2-R-5   A-5-A-7   B   Basic Survey   B   B   B   B   B   B   B   B   B	BODY OF WATER	PROJECT NO.	JOB NO.	DATE	REPORT SUBJECT	TYPE OF DATA
River   F-3-R-5   B-11   9/30/57   Survey and Inventory   23,6,79,14,17,18,19,20,21,26,28   River   F-3-R-10   B-18   4/18/61   Fish Recommissance   2,9,6,14,17,19,20,21,26,28   River   F-3-R-10   B-18   4/18/61   Fish Recommissance   2,9,14,17,19,20,21,26,28   River   F-3-R-10   B-18   6/4/65   Fish Recommissance   2,9,14,19,20,23,24,26   River   F-3-R-12   B-28   1/31/66   Food Study   B19,20,26,28   River   F-3-R-12   B-28   1/31/66   Food Study   2,0,14,19,20,21 (small lakes   F-3-R-12   B-23   1/30/61   Fish Recommissance   2,3,6,7,8,18,19,20,21,25,28   River   F-2-R-13   E-1   1/31/64   Plant Control   1,4,19,20,21   River   F-3-R-13   B-22   1/30/61   Fish Recommissance   2,3,6,5,9,10   1,4,19,10,20,21,25,28   River   F-3-R-13   B-23   1/30/61   Fish Recommissance   2,3,6,9,10   1,4,19,10,20,21,25,28   River   F-3-R-13   B-23   1/30/61   Fish Recommissance   2,3,6,9,10   1,4,19,10,20,21,25,28   Rish Recommissance   2,3,6,9,10   1,4,19,10,20,21,25,28   Rish Recommissance   2,3,6,9,10   1,4,19,10,20,21,25,28   Rish Recommissance   2,3,6,9,10   1,4,19,10,20,21,25,28   Rish Recommissance   2,3,6,9,9		F-2-R-5	A-5-A-7	8/30/57		3,6,11,14,20,21,24
River F-3-R-8 B-18   4/18/61   Fish Recomnaissance 2.3,6,14,17,19,20,21,26,5   Fish Recomnaissance 2.3,6,14,17,19,20,21,26,5   Fish Recomnaissance 2.3,6,14,19,20,23,24,26   Fish Recomnaissance 2.3,6,14,19,20,23,24,26   Fish Recomnaissance 2.3,6,9   Fish Recomnaissance 2.3,6	<u> </u>	F-3-R-5		9/30/57	>,	1,26
River   F-3-R-10   B-20   1/31/63   Food Study   2.6.10     River   F-3-R-12   B-20   1/31/65   Food Study   2.9.14.19.20.26.28     River   F-3-R-12   B-20   1/31/65   Food Study   2.9.14.19.20.23.24.26     River   F-3-R-12   B-20   1/31/65   Food Study   2.3.6.9     River   F-3-R-12   B-20   1/31/65   Food Study   2.3.6.9     River   F-6-R-1   B-32   1/29/64   Fish Recommaissance   2.3.7.14.19.20.21 (small river   F-6-R-2   B-23   1/31/64   Basic Survey   2.3.6.78.18.19.20.25.26     River   F-6-R-2   B-23   1/31/64   Basic Survey   2.3.6.3.9     River   F-6-R-2   B-23   1/31/64   Basic Survey   2.3.6.3.9     River   F-6-R-3   B-32   1/31/64   Basic Survey   2.3.6.3.9     River   F-6-R-9   B-22   1/30/61   Fish Recommaissance   2.3.6.3.9     Reserved   F-6-R-9   B-21   1/31/64   Fish Recommaissance   2.3.6.3.9     Lake   F-6-R-9   B-21   1/31/64   Fish Recommaissance   2.3.6.3.9     Lake   F-6-R-9   B-22   1/30/61   Fish Recommaissance   2.3.6.3.9     Lake   F-6-R-9   B-22   1/30/61   Fish Recommaissance   2.3.6.3.9     Concton River   F-6-R-9   B-22   1/30/61   Fish Recommaissance   2.3.6.3     Lake   F-6-R-9   B-22   1/30/61   Resurvey   2.3.6.3     Lake   F-6-R-9   B-32   6/28/62   Fish Recommaissance   2.3.6.39     Lake   F-6-R-9   B-32   6/28/62   Fish Recommaissance   2.3.6.39     Lake   F-6-R-9   B-32   6/28/62   Fish Recommaissance   2.3.6.39     Lake   F-6-R-9   B-32   1/30/61   Fish Recommaissance   2.3.6.39     Lake   F-6-R-9   B-32   1/30/61   Fish Recommaissance   2.3.6.39     Lake   F-6-R-9   B-32   1/30/64   Fish Recommaissance   2.3.6.39     Lake   F-6-R-		F-3-R-8		4/18/61		2,3,6,14,17,19,20,21,26,28
River   F-3R-10   C-1   1/31/63   Pollution Study   1819;20,26,28     River   F-3R-12   B-18   6/4/65   Fish Reconnaissance   2,914,19,20,23,24,26     River   F-3R-12   B-18   1/29/64   Fish Reconnaissance   2,916,19,20,23,24,26     River   F-6R-17   B-23   1/29/64   Fish Reconnaissance   2,3,5,14,19,20,21 (small strict   F-6R-17   B-23   1/30/61   Fish Reconnaissance   2,3,5,74,19,20,21 (small strict   F-3R-11   B-27   1/30/61   Fish Reconnaissance   2,3,6,18,19,20,21,25     River   F-6R-17   B-27   1/30/61   Fish Reconnaissance   2,3,6,18,19,20,21,25     River   F-5R-19   B-27   1/30/61   Fish Reconnaissance   2,3,6,18,19,20,21,25     River   F-5R-10   B-32   6/28/62   Fish Reconnaissance   2,3,6,18,19,20,21,25     River   F-5R-10   B-32   6/28/65   Fish Reconnaissance   2,3,6,18,19,20,21,23     River   F-5R-10   B-32   6/28/67   Fish Reconnaissance   2,3,6,18,19,20,21,23     River   F-5R-10   B-32   6/28/67   Fish Reconnaissance   2,3,6,18,19,20,21,23     Resurvey   F-5R-10   B-32   6/28/62   Fish Reconnaissance   2,3,6,18,19     Resurvey   F-5R-10   B-32   6/28/62   Fish Reconnaissance   2,3,6,18,19     Resurvey   F-5R-10   B-32   6/28/62   Fish Reconnaissance   2,3,6,18     River   River   F-5R-10   B-32   6/28/62   Fish Reconnaissance   2,3,6,18     River   River   F-5R-10   B-32   6/28/62   Fish Reconnaissance   2,3,6,18     River   River   F-5R-10   B-32   6/28/64   Fish Reconnaissance   2,3,6,18     River   River   F-5R-10   B-32   6/28/64   Fish Reconnaissance   2,3,6,18     River   River   F-5R-10   B-32   6/28/64   Fish Reconnaissance   2,3,		F-3-R-10		1/31/63		2,6,10
River   F-3-R-12   B-18   6/4/65   Fish Reconnaissance   2.9,14,19,20,23,24,26     River   F-3-R-12   B-20   1/31/65   Fish Reconnaissance   2.3,6,9     River   F-3-R-13   B-20   1/23/64   Fish Reconnaissance   2.3,6,9     River   F-6-R-7   B-16   12/31/59   Basic Survey   2.3,6,17,8,19,20,21 (small store)     River   F-6-R-19   B-22   1/23/64   Basic Survey   2.3,6,17,8,19,20,23,28     River   F-6-R-19   B-22   1/31/64   Piant Control   1/4,19,20,23,28     River   F-6-R-19   B-22   1/31/64   Piant Control   1/4,19,20,23,28     Rison Lake   F-5-R-9   B-32   6/28/62   Fish Reconnaissance   2.3,6,9,17,18,19,20,21,25     Rison Lake   F-5-R-9   B-32   6/28/62   Fish Reconnaissance   2.3,6,9,17,18,19,20,21,25     Rison Lake   F-5-R-9   B-32   1/23/61   Fish Reconnaissance   2.3,6,9,10,17,21,23     Rison Lake   F-5-R-9   B-32   1/23/61   Fish Reconnaissance   2.3,6,9,10,17,21,23     Ricon River   F-5-R-9   B-22   1/3/64   Fish Reconnaissance   2.3,6,9,10,17,21,23     Resurvey   Reservoir   F-5-R-9   B-22   1/3/64   Fish Reconnaissance   2.3,6,8,9     Reservoir   F-5-R-9   B-32   6/28/62   Fish Reconnaissance   2.3,6,9,9     Reservoi		-3-R-1		1/31/63	ition Study	18,19,20,26,28
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son Lake         F-5-R-9         B-32         6/28/62         Fish Reconnaissance           son Lake         F-7-R-12         B-18         4/20/65         Fish Reconnaissance           Tinger City Lk         F-5-R-10         B-32         10/24/63         Fish Reconnaissance           nters Lake         F-5-R-11         B-32         2/29/64         Fish Reconnaissance           nters Lake         F-5-R-13         4         2/28/66         Pop. Control Recon.           Tract Lake         F-6-R-4         A-6         10/15/57         SurveyMap		F-9-R-11	- 1	2/29/64	Reconnaissance	2,3,6,9
Son Lake F-7-R-12 B-18 4/20/65 Fish Reconnaissance llinger City Lk F-5-R-10 B-32 10/24/63 Fish Reconnaissance nters Lake F-5-R-9 B-32 6/28/62 Fish Reconnaissance ters Lake F-5-R-11 B-32 2/29/64 Fish Reconnaissance nters Lake F-5-R-13 4 2/28/66 Pop. Control Recon. Tract Lake F-6-R-4 A-6 10/15/57 SurveyMap		5-R-	- 1	6/28/62	Reconnaissance	2,3,6,8,9
llinger City Lk F-5-R-10 B-32 10/24/63 Fish Reconnaissance nters Lake F-5-R-9 B-32 6/28/62 Fish Reconnaissance nters Lake F-5-R-11 B-32 2/29/64 Fish Reconnaissance nters Lake F-5-R-13 4 2/28/66 Pop. Control Recon. Tract Lake F-6-R-4 A-6 10/15/57 SurveyMap		F-7-R-12	- 1	4/20/65	Reconnaissance	2,3,6,8,9,10,23
nters Lake F-5-R-9 B-32 6/28/62 Fish Reconnaissance nters Lake F-5-R-11 B-32 2/29/64 Fish Reconnaissance nters Lake F-5-R-13 4 2/28/66 Pop. Control Recon. Tract Lake F-6-R-4 A-6 10/15/57 SurveyMap	nger City	F-5-R-10	ı	10/24/63	Reconnaissance	2,3,6,9,10
nters Lake F-5-R-11 B-32 2/29/64 Fish Reconnaissance nters Lake F-5-R-13 4 2/28/66 Pop. Control Recon. Tract Lake F-6-R-4 A-6 10/15/57 SurveyMap	Winters Lake		- 1	6/28/62	Reconnaissance	2,3,6,8,9
nters Lake F-5-R-13 4 2/28/66 Pop. Control Recon. Tract Lake F-6-R-4 A-6 10/15/57 SurveyMap				$\delta$	Reconnaissance	2,3,6,5
Tract Lake F-6-R-4 A-6 10/15/57 SurveyMap	nters		4	9/8	ontrol Recon.	2,3,6,17,21,23
	Tract	6-R-	A-6	$\overline{}$	Map	map

DATA	2,3,6,7,8,10,14,17,19,21,23,26 2,5,10 2,3,6,8,11,14,17,19,20,21,23,26 2,10,13 2,3,6,8,17,19,20,21,26 2,3,6,8,17,19,20,21,26 2,3,6,8,9,10,14,20,26,28 2,3,6,8,9,10 2,3,6,8,9,10 2,3,6,8,9 2,3,6,8,17,23 2,6,7,8,17,23 2,6,7,8,17,23 2,6,7,8,17,23 2,6,7,8,17,23 2,6,7,8,17,23 2,6,7,8,17,23 2,6,7,8,17,8,9 2,3,6,8,9 2,3,6,8,9 2,3,6,8,9 2,3,6,8,9 2,3,6,8,9 2,3,6,8,9 2,3,6,8,9 2,3,6,8,9 2,3,6,8,9 2,3,6,8,9 2,3,6,8,9 2,3,6,8,9 2,3,6,8,9	6
TYPE OF		
REPORT SUBJECT		Fish Reconnaissance
DATE	1/31/63 1/31/63 1/31/63 1/31/64 6/4/65 1/31/65 10/31/65 12/31/65 12/31/64 4/16/58 4/16/58 11/9/61 6/28/65 2/28/66 2/28/66 1/31/64 1/31/63 1/31/63 1/31/63 1/31/63 1/31/63 1/31/63 1/31/63 1/31/63 1/31/63	10/31/64
JOB NO.	B-19 B-20 B-19 B-20 B-19 B-29 B-29 B-18 B-18 B-18 B-22 B-22 B-22 B-22 B-22 B-22 B-22 B-2	B-29
PROJECT NO.	F-3-R-10 F-3-R-10 F-3-R-10 F-3-R-11 F-3-R-12 F-7-R-12 F-7-R-12 F-7-R-12 F-7-R-12 F-7-R-12 F-7-R-12 F-5-R-9 F-5-R-12 F-3-R-12 F-4-R-5 F-4-R-5 F-4-R-5	F-4-R-11
BODY OF WATER	alestine alestine alestine alestine alestine alestine alestine alline auline River	Possum Kingdom Lake

64	28 ,25,26, map ,25,26, map ,25,26, map 1,24,28	
TYPE OF DATA	19,20,26 3,9,10,23 17,19,20,21,23,26,3,10,9,20,21,23,25,28 10,10,9,20,23,25,28 18,20,26,27,28 10,21,23,24,26 10,21,24,26 13,21 13,21 13,21 14,17,18,19,20,21 18,9,20,21 18,19,20,21	19,20,27,28
REPORT SUBJECT	Study naissance ct udy naissance naissance naissance h Intro. Study ey (Salt Formaissance naissance	Pollution Study
DATE	1/31/62 10/31/63 10/31/64 10/31/64 12/31/60 12/31/61 4/15/57 4/15/58 12/1/59 5/28/64 2/28/66 7/26/57 7/26/57 7/26/57 6/2/64 12/31/62 12/31/62 12/31/62 12/31/62 12/31/62 12/31/62 5/28/64 2/28/64 2/28/64 2/28/64 2/28/64 2/28/64 2/28/64 2/28/64 2/28/64	3/15/60
JOB NO.	C-1 B-29 B-31 E1-seg5 B-21 B-21 B-21 B-21 B-17 B-17 C-1 B-18 B-18 B-20 B-20 B-20 B-22 B-13 B-13 B-13 B-13 B-13 B-13	<u>-</u> -
PROJECT NO.	F-3-R-9 F-4-R-10 F-4-R-11 F-8-R-8 F-8-R-8 F-5-R-9 F-5-R-9 F-5-R-9 F-5-R-9 F-5-R-11 F-5-R-11 F-5-R-11 F-5-R-11 F-5-R-11 F-5-R-11 F-5-R-11 F-5-R-11 F-6-R-10 F-6-R-10 F-6-R-11 F-5-R-11 F-6-R-11	F-7-R-7
BODY OF WATER	*	Blanca L

	agging 65	5
TYPE OF DATA	2,3,8,9,20,28 2,3,6,8,9,10,11,13,15, map, tagging 2,3,6,23,28 16, map 1,14,19,20,23,28 2,6,7,9,17,19,20,21,23,26,28 2,3,6, map 2,3,6,7,9 18,19,20,23,24,26 2,3,6,7,9 18,19,20,21,26 2,3,6,9,19,20,21,26 2,3,6,9,14 2,3,6,9,14 2,3,6,9	2,3,6 2,3,6
REPORT SUBJECT	Ex. Management Stocking Changes in Fish Pop. Ex. Management Survey Plant Control CuSO4 Effect Survey-Map Basic Survey Fish Reconnaissance Food Study Fish Reconnaissance Basic Survey Fish Reconnaissance Resurvey	onnaissance onnaissance
DATE	12/31/60 12/31/60 12/31/64 10/4/64 10/4/64 12/31/60 10/15/57 11/30/61 1/31/65 1/31/65 1/31/64 1/31/64 1/31/64 1/31/64 1/31/64 1/31/64 1/31/64 1/31/64 1/31/64 1/31/64 1/31/64 1/31/64 1/31/64 1/31/65 12/31/65 12/31/65 12/31/65 12/31/65	1/31/64
JOB NO.	B-16 E-3 E-3 E-3 D-2 P-2 B-15 B-15 B-22 B-22 B-22 B-22 B-22 B-32 B-22 B-22	B-22 B-22
PROJECT NO.	T-7-7-8-9 T-7-7-8-9 T-7-7-8-9 T-7-7-8-9 T-7-7-8-9 T-7-8-9 T-7-8-9 T-7-8-9 T-7-8-8 T-7-8-8 T-7-8-9 T-	F-2-R-11 F=2-R-12
BODY OF WATER	Rita Blanca Lake Robuck Pond Lake Roundhouse Russell Tract Lake Sabinal River Sabina River Sabine River San Angelo Reservoir	San Gabriel River San Gabriel River

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66	
TYPE OF DATA	2,3,6 2,3,6 2,3,6 1,2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8 2,3,6,8,9 1,14,19,20,21,26,28 2,3,4,6,8,9,19,20,21,26,28 2,3,4,6,8,9,19,20,21,26,28 2,3,4,6,8,9,10,19,20,21,26,28 2,3,4,6,8,9,10,19,20,21,26,28 2,3,6,8,9,10,19,20,28 2,3,6,8,9,10,19,20,28 2,3,6,8,9,10,17,19,20,21,23,24,26,28 2,3,6,7,9,14,17,18,19,20,26 2,3,6,7,9,14,19,20,23,24,26 2,3,6,8,14,17,18,20,21,23,25,26, map
REPORT SUBJECT	Fish Reconnaissance Basıc Survey Resurvey Fish Reconnaissance Fish Reconnaissance Resurvey Survey Fish Reconnaissance Inventory Resurvey Survey Fish Reconnaissance Plant Control Resurvey Survey Fish Reconnaissance Plant Control Resurvey Survey Fish Study Problems Game Fish Study Redfish Study Redfish Study Fish Reconnaissance Food Study Fish Reconnaissance
DATE	1/31/64 1/31/65 7/28/59 1/31/58 4/7/59 1/31/65 2/29/64 6/28/62 11/9/61 10/15/57 10/31/64 11/9/61 12/31/58 8/5/60 6/28/62 1/31/64 12/31/64 12/31/66 12/31/66 12/31/66 12/31/66 12/31/66 12/31/66 12/31/66 6/2/64 4/20/65 6/30/60 5/31/63 1/31/63 1/31/63
J08 N0.	B-22 B-22 B-22 B-22 B-22 B-22 B-22 B-22
PROJECT NO.	F-2-R-11 F-2-R-12 F-2-R-5 F-2-R-5 F-2-R-5 F-2-R-6 F-5-R-9 F-5-R-9 F-12-R-4 F-12-R-4 F-12-R-3 F-12-R-4 F-12-R-3 F-12-R-4 F-12-R-1 F-12-R-3 F-12-R-3 F-12-R-3 F-12-R-3 F-12-R-3 F-12-R-3 F-12-R-1 F-3-R-
BODY OF WATER	San Marcos River San Marcos River San Saba River Santa Maria Lake Lake Santana Santa Maria Lake Lake Scarbrough Lake Scarbrough Lake Scarbrough Lake Scarbrough Schumann Pond Lake Scarbrough Schumann Pond Lake Scarbrough Schumann Pond Lake Scarbrough Schumann Chry Club Lk Sheldon Reservoir Sheldon Reservoi

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6	- 4
13	- 4

TYPE OF DATA	19,20,23,28 6,8,10 6,9,10 6,9,10 6,9,10 6,9,10,14,18 6,9,10,14,18 6,9,10,14,18	,6,7,9,10,18,19,21,25,26,28 ,7,9,19,20,21,26 ,6,9,10,14,18,26 ,6,7,9,10,18,19,21,25,26,28 ,7,9,10,20,21,26	5,9,10,14,18,26 5,8,17,18,20,21,23,25,28 5,8,9,17,18,20,21,23,25,28 5,8 5,9 5,8,9
REPORT SUBJECT T	Plant Control I,14, Inventory Resurvey Resurvey Resurvey Fish Reconnaissance Fish Control Restocking Restocking Survey Survey Fish Control Fi	2,3 nnaissance 2,3 ing 2,7 ing 2,7 nnaissance 3,8 nnaissance 3,8	Fish Reconnaissance 2,3,6 Inventory 2,3,6 Inventory 2,3,6 Resurvey 2,3,6 Resurvey 2,3,6 Fish Reconnaissance 2,3,6 Fish Reconnaissance 2,3,6 Pop. Control Recon. 2,3,6
DATE	1/31/64 8/8/58 8/5/60 11/9/61 6/28/62 10/24/63 2/29/64 2/28/65 12/31/61 4/17/64 4/17/64 4/17/64 6/30/60 6/30/60 12/31/60 12/31/60		4/1/65 5/1/55 4/16/57 8/9/59 8/5/60 11/5/61 2/29/64 2/28/66
JOB NO.	E-7 B-22 B-22 B-22 B-32 B-32 B-21 16a-27 18a-14 B-7 18a-14	8-16 8-2 8-2 8-2 8-16 8-2 16 8-21	8-21 8-10 8-22 8-22 8-22 4-32
PROJECT NO.	F-5-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7.8-R-1 7.5-R-1 7.5-R-2 1.55-R-4 1.55-R-6 1.5-R-8 1.31
BODY OF WATER	Sumbling Pond Lake Sweetwater Lake Sweetwater Lake Sweetwater Lake Sweetwater Lake Sweetwater Lake Sweetwater Tawakoni Lake Tawakoni Cake	<b>EEEEEE</b>	Lake Texoma Lake J.B. Thomas

TYPE OF DATA	2,3,6,8,9,10,23	2,6,9,17,19,20,21,23,26,28	2,3,6	2,3,6	2,3,6,14,19,28	2,3,6,9	2,3,6,8,9	2,3,6,9	observation	2,3,6	fish attraction	2,3,6	2,6,8,14	3,5,5	2,3,6	2,9,14,19,20,23,24,26	2,10	2,3,6,8,20,26,28	2,3,6,7	2,6	2,3,6,8,9,10	2,3,6,9	2,3,6,9	2,3,6,7,8,9,14,19,20,26	2,3,6,7,8,9,14,19,20,26	2,3,6,9,19,20,21,26	2,9,14,19,20,23,24,20	78 23	0.4.50	2,3,0,9,10	2,3,6,1/,21,23	1,14,19,20,23,28	1,14,19,20,23,28	3,8,23	19,20,2/,28	2,3,6,10	۲,0,6,
REPORT SUBJECT		CuSO <sub>4</sub> Effect						ce	er Survey	Resurvey	er Study	vey	Reconnaissance	Reconnaissance	Reconnalssance	Reconnaissance	Study	Survey	Reconnaissance	Reconnaissance	econnaissance		Reconnaissance	Reconnaissance	Reconnaissance	Reconnaissance	ance	Fish Kill Study	:	Reconnal Ssance	Recon.	Control		Fish Reconnaissance	St.	Inventory of Species	Kesurvey
DATE		5/31/60			5/8/59	8/2/60	6/28/62	2/29/64	1/31/57	1/31/58	1/31/58	4/18/61	1/31/62	1/31/64	1/31/65	6/4/65	1/31/65	10/31/57	4/17/64	10/31/64	12/31/62	5/8/63	<b>2/</b> 29/64	1/31/62	1/33/63	1/31/64	6/4/65	6/1/60	09/15/21	10/24/63	2/28/66	1/31/64	1/31/64	12/31/61	3/15/60		2/10/61
JOB NO.	8-18	<b>E1∸se</b> g5	B-22	B-22	B-24	B-22	B-32	B-32	E-2	B-20	E-2	B-20	B-22	B-22	8-22	B-18	B-20	B-17	B-21	B-29	B-18	B-33	B-32	B-18	B-18	B18-seg4	B-18	16a-26	15a-10	B-32	4	E-7	E-7	B-21	<u>-</u>	B-18	B-26
PROJECT NO.	F-7-R-12	F-3-R-7	F-2-R-11	F-2-R-12	F-5-R-6	F-5-R-7	F-5-R-9	F-5-R-11	F-2-R-4	F-2-R-5	F-2-R-5	F-2-R-8	F-2-R-9	F-2-R-11	F-2-R-12	F-3-R-12	F-3-R-12	F-4-R-4	F-8-R-10	F-4-R-11	F-7-R-10	F-5-R-10	F-5-R-11	F-3-R-9	F-3-R-10	F-3-R-11	F-3-R-12	F-14-D-4	F-15-0-2	F-5-R-10	F-5-R-13	F-2-R-11	F-2-R-11	F-8-R-8	F-7-R-7	$\propto$ 1	F-4-R-7
BODY OF WATER	ake J.B. Thomas	Lake Tomline	Lake Town	Lake Town		Lake Trammell	•		7-	Lake Travis	Lake Travis	Lake Travis	Lake Travis	Lake Travis	Lake Travis	Trinity River	Trinity River	Trinity River	Trinity River	Lake Tucker		Twin Buttes Res.	uttes	State	State	State	State Pk	Tyler State Pk Lake	عد	Valley Creek Res.	Valley Creek Res.	Voger Pond #1	Voger Pond #2	<b>Voth</b> Lake	Yellow House Creek		Lake Waco

	<u>α</u>	69
TYPE OF DATA	2,3,6,7,19,20,28 1,14,19,20,23,28 2,3,6,8,9 2,3,6,9,10,14,17,18,19,20,25 2,3,6,9,10,14,18,26 2,3,6,9,10,14,18,26 2,3,6,9,10,14,18,26 2,3,6,7,8,9 2,3,6,7,8,9 2,3,6,7,8,9 2,3,6,8,9,10 2,3,6,8,9,10 2,3,6,8,9,10 2,3,6,8,9,10 2,3,6,8,9,10 2,3,6,8,9,10 2,3,6,8,9,10 2,3,6,8,9,10 2,3,6,9 1,2,3,4,6,7,8 2,4,6 2,5,9,10	2,3,6,3 2,3,6,11,1 <b>3,</b> 14,16,20,21,28 1,14,19,20,23,28 23, map
REPORT SUBJECT		Fish Keconnalssance Inventory Plant Control SurveyMap
DATE	12/8/61 1/31/64 11/9/61 2/29/64 9/11/57 8/7/59 2/28/66 4/17/64 12/31/65 10/31/64 12/31/65 10/31/65 10/31/63 10/31/63 10/31/63 10/31/63 10/31/63 10/31/63 10/31/63 10/31/63	10/31/65 5/31/55 1/31/64 10/15/57
30B NO.	B-28 B-22 B-22 B-22 B-23 B-23 B-23 B-23 B-23	B-29 B-7 E-7 A-6
PROJECT NO.	F-5-R-8 F-7-R-8 F-7-R-1 F-8-R-1 F-8-R-1 F-7-R-1 F-4-R-5 F-4-R-5 F-4-R-5 F-4-R-1 F-4-R-	F-4-R-12 F-7-R-2 F-2-R-11 F-6-R-4
BODY OF WATER	4.4.4.	Lake Wichita Lake Wichita Wilhelm Pond Willacy Lake

TYPE OF DATA	1,14,19,20,23,28 2,3,6,8, map 6,9 2,3,6,7,8,9 2,3,6,7,8,9 2,6,7,8,9
REPORT SUBJECT	Plant Control Fish Reconnaissance Resurvey Resurvey Fish Reconnaissance
DATE	1/31/64 11/30/62 1/18/60 2/10/61 10/31/61
308 NO.	E-7 B-22 B-26 B-26 B-29 B-29
PROJECT NO.	F-2-R-11 F-9-R-10 F-4-R-6 F-4-R-7 F-4-R-8
BODY OF WATER	Williams Pond Woodlawn Lake Lake Worth Lake Worth Lake Worth

### PERSONNEL ROSTER

An initial mailing list of 118 names was assembled from many sources. Copies of the letter and questionnaire which were sent out are included in the Appendix. A copy of the mailing list was included with each questionnaire. Addition of names from questionnaire replies and other sources increased the total mailing to 209.

One hundred and fifty-four questionnaires were returned and of these 110 were affirmative replies. An alphabetical roster has been compiled from the affirmative replies. Inclusion of graduate students in the roster was not intended. With this exception, no names have been intentionally omitted. There are undoubtedly omissions, because vacations or leaves of absence prevented the return of the questionnaire by some recipients. A few late replies have been included, out of alphabetical sequence, at the end of the roster.

The author would appreciate receiving names and addresses of persons who fall within the set guidelines and who are not on the current list.

Where organisms of special interest are marked with an asterisk the individual has agreed to assist in identification of specimens. Identification is a very exacting and time consuming process. Those wishing to avail themselves of this kind offer should contact the person concerned before sending material.

# TABLE V. SUMMARY OF REPLIES TO PERSONNEL QUESTIONNAIRE

levels of preference. Many respondents indicated fields not on the question-naire, and these are listed below the table. The categories available on the questionnaire are listed. The total number indicating each category is given with a breakdown through the first three

	¥	MAJOR FIEL	FIELI		SP	SPECIALIZATION	LIZAI	NOI.		ORC	SANIS	ST O	I	ORGANISMS OF INTEREST
	<b>—</b>	T 1st 2nd	2nd	3rd		<b>-</b>	T 1st 2nd 3rd	2nd	3rd		<b>-</b>	T 1st 2nd 3rd	2nd	3rd
Biology Botany Zoology Microbiology Limnology	35 25 40 13 31	26 17 28 7	0 6 0 4 4 L	2 - 7 2	Taxonomy Physiology Anat-Morph Ecology Other	26 13 19	15 15 47	0 5 6	L L 4 9	Bacteria Fungi Algae Protozoa Rotifers Molluses	23 0 14	2 2 2	444	
Geology Engineering Chemistry Other	13 13 12	4	0	m						Crustacea Insects Fishes	9 9 11	3440	-40v	- ო

OTHER MAJOR FIELDS: Mathematics, Electrical Engineering, Teleost Embryology, Biochemistry, Biogeography, Coastal Morphology, Fisheries Biology, Animal Behavior, Ichthyology, Marine Biology, Aquatic Entomology

Control of Aquatic Plants, Cytogenetics, Cytotaxonomy, Biochemistry, Vector-Borne Diseases of Man. OTHER SPECIALIZATIONS: Development, Aquatic Biology, Wildlife Research and Management, Sanitary Engineering, Phylogeny, Management, Water Chemistry, Ornithology, Water Resources, Hydrology, Administration, Analystical-Physical Biochemistry of Aqueous Systems, Fisheries, Esturine,

OTHER ORGANISMS OF INTEREST: Trematodes, Amphibians, Reptiles, Aquatic Birds and Other Vertebrates, Mammals, Herpetozoa, Cyperaceae, Birds, Aquatic Plants, Viruses, Diptera.

ROSTER OF PERSONS IN TEXAS INVOLVED IN TEACHING OR RESEARCH IN LIMNOLOGY, FRESHWATER BIOLOGY, ICHTHYOLOGY OR CLOSELY RELATED FIELDS. TABLE VI.

ORGANISMS OF INTEREST ENERAL SPECIAL NTEREST INTEREST		*	Fishes*	Shrimp*		Bacteria	Algae*	Fishes
n G		Fishes Amphibians Reptiles	Fishes	Crustacea Fishes		Bacteria Fungi	Algae	Fishes
SPECIALIZATION		AnatMorph. Taxonomy Ecology		Taxonomy Ecology	Ecology	Physiolo <b>gy</b> Ecology	AnatMorph. Taxonomy Ecology	Ecology
MAJOR FIELD	Geology Geochemistry	Zoology	Biology	Biology	Biology	Microbiology	Biology Botany Zoology	Zoology Biology Limnology
NAME AND ADDRESS	Dr. J.A.S. Adams, Dept. of Geology, Rice University, Houston, Texas	Dr. Richard Baldauf, Dept. of Wildlife Science, Texas A&M Univ., College Station, Texas	Mr. Roy M. Bamburg, Texas Parks & Wildlife Dept., Rt. 3 Box 13, Marshall, Texas	Mr. Kenneth N. Baxter, Bureau Comm. Fisheries, Fort Crockett, Galveston, Texas	Mr. Denton Belk, Dept. of Zoology, University of Texas, Austin, Texas	Dr. E.O. Bennett, Dept. of Biology, Univ. of Houston, Houston, Texas	Dr. H.W. Bischoff, Dept. of Biology, Texas Lutheran Coll., Seguin, Texas	Mr. Harry Bishop, 2314 Westoak, Austin, Texas

INTERST SPECIAL INTEREST	Algae	Serranidde Amei <b>u</b> ridae Centrarchidae		Algae (Chlorophyta)		Volvocalean algae Other green algae		Freshwater and land gastropods and pelecypods		Fresh-water fish Commercial shrimp
ORGANISMS OF GENERAL INTEREST	Algae	Fishes	Molluscs	Algae	Fishes	Algae	Bactería Algae Protozoa	Molluscs	Algae	Fishes Crustacea
SPECIAL IZATION	Taxonomy Physiology <b>An</b> atMorph.	Mngt. of Fishes Ecology Taxonomy		Taxonomy Physiology Ecology	Ecology	<b>Phys</b> iology	Taxonomy AnatMorph.	Taxonomy Ecology	Ecology	Ecology
MAJOR FIELD	Botany	Biology Zoology Botany Limnology Chemistry	Biogeograhpy Coastal Morph.	Botany	Limnology Fisheries Biology	Botany	Biology Limnology	Limnology	Limnology <b>Botan</b> y Zoology	Zoology
NAME AND ADDRESS	Dr. Harold C. Bold, Dept. of Botany, Univ. of Texas, Austin, Texas	Mr. Edward W. Bonn, Texas Parks & Wildlife Dept., 1300 W. Muson, <b>De</b> nison, Texas	Dr. Donald Brand, Dept. of Geography, University of Texas, Austin, Texas	Dr. R. Malcolm Brown, Jr., Dept. of Botany, University of Texas, Austin, Texas	Mr. William E. Burris, San Antonio College, 8814 Woodbury, San Antonio, Texas	Brother Joseph Cain, Dept. of Biology, St. Edward's Univ., Austin, Texas	Mr. Ralph L. Cates, Fort Worth Water Dept., 200 W. Abram, Fort Worth, Texas	Dr. Elmer P. Cheatum, Dept. of Biology, Southern Methodist University, Dallas, Texas	Dr. William J. Clark, Dept. of Biology, Texas A&M University, College Station, Texas	Mr. James P. Clugston, Bureau of Comm. Fisheries, Fort Crockett, Galveston, Texas

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OF INTEREST SPECIAL INTEREST		Freshwater fishes*	Bass*		Birdshabitats* Ites	Stigeoclonium	Fishes*	Algae*	Blue-green algae*	
ORGANISMS OF INTEREST GENERAL SPECIAL INTEREST INTERES	Fishes	Fishes	Fishes		Aquatic birds Bi Other vertebrates	Algae	Fishes Mammal <b>s</b>	Algae	Algae Bacteria Fishes Fungi	
SPECIALIZATION	Ecology Taxonomy AnatMorph.	Aquatic Biology	Physiology Ecology	Ecology	Ecology Wildlife Res. and Mngt.	Taxonomy AnatMorph. Physiology	Taxonomy Ecology	Physiology	Sanitary Eng.	
MAJOR FIELD	Zoology	Biology B <b>ota</b> ny	Biology Limnology	Limnology Biology Chemistry Zoology	Zoology Biology Botany	Botany	Zoology Limnology	Biology Botany	Engineering Biology	Engineering Chemistry
NAME AND ADDRESS	Mr. J. Van Conner, Dept. of Wildlife Science, Texas A&M Univ., College Station, Texas	Mr. Billy D. Cooper, 9822 Woodwind, Houston, Texas	Dr. William A. Cooper, Dept. of Biology, West Texas State University, Canyon, Texas	Dr. B.J. Copeland, Institute of Marine Science, Port Aransas, Texas	Dr. Cla <b>re</b> nce Cottan, Welder Wildlife Foundation, P.O.B <b>ox</b> 1396, Sinton, Texas	Miss Elenor Cox, Texas Gulf Coast Science Resource Center, Houston, Texas	Dr. Walter N. Dalquest, Dept. of Biology, Midwestern Univ., Wichita Falls, Texas	Dr. Floyd F. Davidson, Dept. of Biology, Baylor Univ., Waco, Texas	Dr. Ernst M. Davis, Eng. Lab. Bldg., Rm. 305, University of Texas, Austin, Texas	Mr. N.E. Davis, Texas State Dept. of Health, 1100 W. 49th St., Austin, Texas

NAME AND ADDRESS	MAJOR FIELD	SPECIALIZATION	GENERAL INTEREST	SPECIAL INTEREST
Mr. William B. Davis, Environ- mental Eng., Texas A&M Univ., College Station, Texas	Engineering Microbiology Chemistry	Ecology	Bacteria Algae	
Mr. W.K. Davis, Dept. of Biology, Southwest Texas State College, San Marcos, Texas	Zoology Biology Botany	Ecology Taxonomy	Amphibia	
Or. E.A. Delco, Dept. of Biology, Huston-Tillotson College, Austin, Texas	Zoology	Ecology	Fishes	Cyprinids*
Dr. Lawrence S. Dillon, Dept. of Biology, Texas A&M Univ., College Station, Texas	Zoology	Phyolgeny	Protozoa Insects	
Mr. W.R. Dinges, Texas State Dept. of Health, 1100 W. 49th St., Austin, Texas	Biology Zoology Limnology Chemistry	Ecology	Fishes Bacteria	
<pre>Dr. Ewin:A. Eads, Dept. of Chemistry, Lamar State College of Tech., Beaumont, Texas</pre>	Chemistry Limnology			
Eisenberg, Dept. of Rice University, Texas	Zoology	Ecology		
Mr. Alvin Flury, Dept. of Biology, San Angelo State College, San Angelo, Texas	Zoology Biology	Ecology Management	Fishes	Texas fish
Dr. E. Gus Fruh, Dept. of Environ. Health Eng., Univ., of Texas, Austin, Texas	Engineering	Water Chemistry		
Dr. Frederick Gehlbach, Dept. of Biology, Baylor University, Waco, Texas	Zoology	Ecology	Herpetozoa	Turtles* Fishes Birds Water Snakes

Dr. William R. Glaze, Dept. of Chemistry, North Texas State University, Denton, Texas	MAJOR FIELD Chemistry	SPECIALIZATION	ORGANISMS OF INTEREST GENERAL SPECIAL INTEREST INTERES	F INTEREST SPECIAL INTEREST
Mr. L.V. Guerra, lexas Parks & Wildlife Dept., 535 S. Main, San Antonio, Texas Dr. Daude N. Griffin, Dept. of Riology Fast Texas State Univ	biology Zoology Zoology	Ecology Ecology Orinthology	F1snes	Fungi* Insects
_	Microbiology	Taxonomy Ecology	Bacteria	Bacteria Streptomycetes*
	Zoology	Animal Behavior (Ethology)	Fishes	Anabantiod fishes* Freshwater fishes
	Biology Limnology		Fishes	
•	Engineering	Water Resources		
	Biology Limnology	Ecology	Fishes	
	Hydrology Limnology Geology Engineering Chemistry	Hydrology		

OCTUCAL CLASS	G 1717	CDECTAL TZATION	ORGANISMS ( GENERAL INTEDEST	ORGANISMS OF INTEREST ENERAL SPECIAL NTEPEST INTEREST
NAME AND ADDRESS	MAJOK FIELD	SPECIAL LEAD TON	IN LEKES I	INITALSI
Mr. G.G. Henderson, Jr., Texas Parks & Wildlife Dept., 503 B. N. Main, Del Rio, Texas	Zoology		Fishes	
Dr. W. Hewatt, Dept. of Biology Texas Christian University, Fort Worth, Texas	Limnology Hydrology	Ecology		Crustacea*
Mr. Vernon Hicks, Soil Conservation Service, Temple, Texas	Ichthyology		Fishes	
Mr. Leon R. Holbert, Eng. Ext. Service, Texas A&M Univ., College Station, Texas	Biology Chemistry	Ecology Physiology	Algae Bacteria	Algae
Dr. S.H. Hopkins, Dept. of Biology, Texas A&M University, College Station, Texas	Zoology Biology	Ecology	Protozoa Molluscs Crustacea Trematodes	Trematodes*
Dr. Clark Hubbs, Dept. of Zoology, Univ. of Texas, Austin, Texas	Zoology Limnology	Taxonomy Ecology Physiology AnatMorph.	Fishes	Fish*
Mr. Ellis Huddleston, Dept. of Entomology, Texas Technological College, Lubbock, Texas	Entomology	Ecology	Insects	Mosquitoes
Mr. Jack Inglis, Dept. of Wildlife Science, Texas A&M Univ., College Station, Texas	Zoology	Ecology	Fishes	,
Mr. C.R. Inman, Texas Parks & Wildlife Dept., 621 W. Belden, Sherman, Texas	Biology Zoology Botany Chemistry		Fishes	Fishes*

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NAME AND ADDRESS	MAJOR FIELD	SPECIALIZATION	ORGANISMS OF GENERAL INTEREST	OF INTEREST SPECIAL INTEREST
Mr. <b>Geo</b> rge W. Johnston, Inks Dam National Fish Hatchery, Rt. 2, Burnet, Texas	Biology Limnology		Fishes	Parasites Diseases of fish
Mr. Kenneth C. Jurgens, Texas Parks & Wildlife Dept., Reagan State Bldg, Austin, Texas	Fisheries	Administration	Fishes	Freshwater fishes*
Mr. Wallace G. Klussman, Dept. of Wildlife Conservation, Texas A&M Univ., College Station, Texas	Biology			
Miss Helen Lacy, Research Micro- biologist, Brown & Root-Northrup, P.O.Box 34416, Houston, Texas	Microbiology		Fungi Bacteria	
Mr. William D. Langley, Dept. of Environmental Eng., Texas A&M Univ., College Station, Texas	Chemistry	Analytical- Physical Bio- chemistry of Aqueous systems		
Mr. Terrance Leary, Texas Parks & Wildlife Dept., Reagan State Bldg., Austin, Texas	Biology	Ecology	Crustacea Fishes	Estuarine
Dr. Joe Overton Ledbetter, Dept. of Civil Eng., Univ. of Texas, Austin, Texas	Engineering	Taxonomy	Bacteria	
Dr. J.V. Leeds, Dept. of Chemical Engineering, Rice Univ., Houston, Texas	Engineering	Mathematics		
Dr. James D. Long. Dept. of Biology, Sam Houston State College, Huntsville, Texas	Zoology	Ecology	Insects	DipteraCulîcidae*
Sister Mary Lucy, Dept. of Biology, Incarnate Word Coll., San Antonio, Texas	Botany	Taxonomy	Cyperaceae	79

Dr. J.G. Mackin, Dept. of Biology, Texas A&M Univ., College Station, Texas Dr. Bassett Maguire, Jr., Dept. of Zoology, Univ. of Texas, Austin, Texas Dr. Frank D. Masch, Dept. of Civil Eng., Univ. of Texas Austin, Texas Mr. William G. McClellen, P.O.Box 362, Hooks, Texas Mr. Jack McCullough, Dept. of Biology, Stephen F. Austin State College, Nacogdoches, Texas Mr. C.T. Menn, Texas Parks & Wildlife Dept., 5406 River Oaks,	MAJOR FIELD Zoology Limnology Limnology Limnology Limnology Limnology	SPECIALIZATION Taxonomy Ecology Ecology Fisheries	ORGANISMS OF GENERAL INTEREST Molluscs Erustacea Crustacea Crustacea (Fishes	Branchiopoda* IsopodaAmphipoda Cladocera
	Zoology Biology Zoology Zoology Limnology	Ecology Fisheries Ecology Ecology	Fishes Fishes Fishes	Sciaenidaz Estuarine fishes*

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ORGANISMS OF INTEREST ENERAL SPECIAL NTEREST INTEREST	Algae	Bacteria* Algae			Charophytes*	Enterobacteriaceae*	Lower Missouri Valley Fishes* ss	Characeae*	81
ORGANISMS GENERAL INTEREST	Algae	Bacteria Algae Protozoa Crustacea		Fishes	Algae Birds	Bacteria Rotifers Protozoa	Fishes Aquatic Plants	Algae	Alage Protozoa
SPECIALIZATION	Physiology	Ecology	Physiology	Fisheries Mngt.	Taxonomy Ecology	Ecology Taxonomy	Taxonomy Control of Aquatic Plants	AnatMorph. Cytogenetics Cytotaxonomy	Ecology Taxonomy
MAJOR FIELD	Biology	Engineering Limnology Microbiology	Botany Zoology Microbiology	Biology	Botany Biology	Engineering Microbiology Chemistry	Biology	Botany	Botany Limnology
NAME AND ADDRESS	Dr. Jack Myers, Dept. of Zoology, Univ. of Texas, Austin, Texas	Dr. Nugent Myrick, Dept. of Civil Eng., Univ. of Houston, Houston, Texas	Dr. W.E. Norris, Jr., Dept. of Biology, Southwest Texas State College, San Marcos, Texas	Mr. Lonnie J. Peters, Texas Parks & Wildlife Dept., Box 835, Canyon, Texas	Dr. Vernon Proctor, Dept. of Biology, Texas Technological College, Lubbock, Texas	Dr. Clifford W. Randall, Dept. of Civil Eng., Arlington State College, Arlington, Texas	Mr. Perry Robinson, District Biologist, U.S. Corps of Eng., Ft. Worth Dist., P.O.Box 1600, Fort Worth, Texas	Dr. Takashi Sawa, Dept. of Botany, Univ. of Texas, Austin, Texas	Dr. Harold E. Schlichting, Jr., Dept. of Biology, North Texas State Univ., Denton, Texas

NAME AND ADDRESS	MAJOR FIELD	SPECIALIZATION	ORGANISMS OF GENERAL INTEREST	OF INTEREST SPECIAL INTEREST
Dr. Vernon Scholes, Dept. of Biology, North Texas State University, Denton, Texas	Microbiology	Physiology	Viruses Bacteria Fungi	Actinomycetes*
Dr. J.K.G. Silvey, Dept. of Biology, North Texas State University, Denton, Texas	Limnology Microbiology	Ecology	Fungi Al <b>ga</b> e Fishes	
Mr. Ernest Simmons, Texas Parks & Wildlife Dept., P.O.Box 1117, Rockport, Texas	Marine Biology Zoology	Ecology	Fishes Crustacea	Sciaenids*
Mr. Dwane Smith, Texas Parks & Wildlife Dept., P.O.Box 308, Graham, Texas	Biology Limnology		Algae Fishes	Fish
Mr. L%O. Sorensen, Dept. of Biology, Pan American College, Edinburg, Texas	Botany	Physiology	Algae	
Mr. David Steed, Institute of Marine Science, Port Aransas, Texas	Zoology	Ecology		
Dr. Kenneth Stewart, Dept. of Biology, North Texas State University, Denton, Texas	Aquatic Ento <b>mo</b> logy Ecology	Ecology	Insect <b>s</b> Crustacea Fishes	Odonates*
Mr. Joe E. Toole, Texas Parks & Wildlife Dept., 205 Martindale Dr. E., Marshall, Texas	Biology		Fishes	Freshwater fishes*
Mr. Marion Toole, Coordinator, Inland Fisheries, Texas Parks & Wildlife Dept., Reagan State Bldg., Austin, Texas	Freshwater fisheries administrati <b>o</b> n			
<pre>Mr. Trigg Twitchell, District Chief, WRD, U.S.G.S., Federal Bldg., 300 E. 8th St., Austin, Texas</pre>	Hydrology Engineering Geology Chemistry			

	algae	lgae	* =	renoidosa	Freshwater fishes of Texas*	lular algae				quitoes*
OF INTEREST SPECIAL INTEREST	Blue-green a	Blue <b>-g</b> reen algae	Phytoplankton*	Bacteria Chlorella <b>p</b> yrenoidosa	Freshwater f	Green unicellular		Game fish		DipteraMosquitoes*
ORGANISMS OF GENERAL I INTEREST	Algae Bacteria	Algae	Algae	Bacteria	Fi she <b>s</b>	Algae Fungi Bacteria	Insects Fishes	Fishes	Fishes Bacteria Algae	Arthropods Insects
SPECIALIZATION	Physiology	Physiology	AnatMorph.	Physiology	Ecology Taxonomy	Physiology Ecology	Taxonomy Ecology	Ecology	Ecology Taxonomy	Vector-Borne diseases of man Ecology Taxonomy
MAJOR FIELD	Microbiology	Botany	Botany	Microbiology	Engineering Zoology	Botany Microbiology	Botany	Zoology	Limnology Zoology Botany Microbiology	Ent <b>omo</b> logy Zoology
NAME AND ADDRESS	Dr. Chase Van Baalen, Institute of Marine Science, Port Aransas, Texas	Dr. B. Dwain Vance, Dept. of Biology, North Texas State Univ., Denton, Texas	Mr. Byron Van Dover, Dept. of Biology, Stephen F. Austin State College, Nacogdoches, Texas	Dr. <b>Ger</b> ard Roland Vela, Dept. of Biology, North Texas State Univ., Denton, Texas	Mr. Kirby H. Walker, 406 Pebblebrook Dr., Seabrook, Texas	Dr. C.H. Ward, Dept. of Biology, Rice University, Houston, Texas	Mr. Delbert Weniger, Dept. of Biology, Our Lady of the Lake College, San Antonio, Texas	Mr. Alan G. Wenger, Texas Parks & Wildlife Dept., Rt. 5 Box 563-A, Houston, Texas	Dr. Bobby Wilson, Dept. of Biology, East Texas State Coll., Commerce, Texas	Dr. John S. Wiseman, Project Director, Community Pesticide Study, Texas State Dept. of Health, 1100 W. 49th St., Austin, Texas

NAME AND ADDRESS	MAJOR FIELD	SPECIALIZATION	ORGANISMS OF INTEREST GENERAL SPECIAL INTEREST INTEREST	= INTEREST SPECIAL INTEREST
Mr. Gary Wood, Texas Parks & Wildlife Dept., P.O.Box 7653, Waco, Texas	Zoology		Fishes	
Or. Christopher York, Dept. of Bi <b>o</b> logy, Mary Hardin-Baylor College, Belton, Texas	Biology	Ecology		
Mr. Mark Zilberberg, 1513 Corona Drive, Austin, Texas	Zoology	Ecology	Fishes	Marine and freshwater fishes*
	SUPPLEMENT	SUPPLEMENTARY LISTING		
Mr. John Barron 4307 S. Port Corpus Christi, Texas	Biology	Fishery Biology	Fishes	
Dr. Prentice A. Caraway Dept. of Biology West Texas State Univ. Canyon, Texas	Zoo1ogy	Ecology	Fishes	
Mr. G. V. Chambers ESSO Research & Engineering P.O. Box 4255 Baytown, Texas	Limnology Chemistry	<b>Eco</b> logy	Fishes	
Mr. Arthur G. Cleveland Dept. of Biology Texas Wesleyan College Fort Worth, Texas 76105	Z <b>oo</b> logy Microbiology	Ecology	Amphibia Protozoa	

MAJOR FIELD SPECIALIZATION OKGANISMS OF INTEREST GENERAL SPECIAL INTEREST INTEREST.	Gray Biology Fishes  Harrel Limnology Ecology Benthic Annelids  Annelids  Annelids	Botany Anatomy-Morp Ecology Taxonomy ing	Ringo Biology Ecology Fishes Inshore Fishes* nes Dr. Zoology Taxonomy Crustacea (Estuarine) xas 77552 Bacteria Geology
nr. raul fischer, of. 142 Texas Slaton, Texas Dr. Ernest Gloyna Dept. of Civil Engineering University of Texas Austin, Texas	Mr. Charles E. Gray 530 S. Beckham Tyler, Texas Dr. Richard C. Harrel Lamar Tech	essoney niv. of s Engineer rsity	College Station, Texas Mr. Robert D. Ringo 1609 Bayou Homes Dr. Galveston, Texas 77552 Dr. Nicholas M. Short Dept. of Geology

### STATE AND FEDERAL AGENCIES

Many State and Federal agencies are involved directly or indirectly in the subject matter areas covered by this report. No attempt has been made in the following discussion to include complete organizational outlines or personnel rosters. Those personnel and programs are listed which appear to be pertinent to the objectives of the report.

### 1. Texas State Agencies

A. Parks and Wildlife Department John H. Reagan State Building Austin, Texas 78701

Executive Director: Mr. Robert Singleton

Inland Fisheries Coordinator: Mr. Marion Toole

The State is divided into 5 Regions and 20 Districts
In addition to the mimeographed reports discussed elsewhere, the
Department publishes a series called "Inland Fisheries Bulletins" or "IF
Bulletins." Numbers 1-6 have been published through June, 1966

B. Texas Water Development Board
P.O. Box 12386
Capitol Station
Austin, Texas 78711

Executive Director: Mr. Joe G. Moore, Jr.

The State Board of Water Engineers, established in 1913, was the first water administration agency for Texas. The Texas Water Development Board was established in 1957. In 1962 the State Board of Water Engineers was reorganized as the Texas Water Commission. In 1965 Texas Water Agencies were again realigned placing planning responsibility under the Texas Water Development Board and the legal and water rights authority under the Texas Water Rights Commission.

These agencies, in cooperation with the U.S. Geological Survey, U.S. Corps of Engineers, and others, have carried on extensive work on nearly every aspect of water resources except biological problems. Data on stream flow, silt load, water chemistry, water quality, drainage areas, and other topics are available.

A list of publications (3) and an annotated bibliography (4) are available from the Texas Water Development Board. The planning reports previously cited (1) (2) also contain many maps and considerable information.

C. Texas Water Pollution Control Board 1100 W. 49th Street

Austin, Texas 78751

Chairman: Mr. Joe G. Moore, Jr.

Mr. Moore is also Executive Director of the Texas Water Development Board.

D. Texas Railroad Commission

Ernest O. Thompson Building

Austin, Texas 78701

Chairman: Mr. Ben F. Ramsey

The Railroad Commission is responsible for pollution in oil fields resulting from oil and gas operations. The chairman is a member of the Water Pollution Control Board.

E. Texas State Public Health Department 1100 W. 49th Street

Austin, Texas 78751

Commissioner of Health: James E. Peavy, M.D.

Director, Division of Water Pollution Control: Mr. Hugh Yantis

Mr. Yantis is also Executive Secretary of the Water Pollution Control

Board.

### F. River Authorities and Conservation Districts

Much of the water development in Texas has been under the purview of River Authorities and Conservation Districts created by the Legislature. Information and addresses for these agencies can be obtained from the Water Development Board.

### II, Federal Agencies

A. U.S. Army Corps of Engineers

Southwestern Division Headquarters
1114 Commerce St., Dallas, Texas 75202

The division has published a booklet (6) giving considerable information about Corps activities.

Fort Worth District Headquarters Box 1600 Fort Worth, Texas 76101

District Engineer: Col. Jack W. Fickessen

Chief, Sedimentation and Quality of Water Unit: Mr. Perry E. Robinson District Biologist: Mr. Elmond L. Draper

Most of inland Texas is in the Fort Worth District. Sections of the State not under the Fort Worth District are as follows:

Coastal areas -- Galveston District

Canadian and Red River Drainages -- Tulsa, Oklahoma, District Rio Grande Drainage above Devil's River -- Albuquerque, New Mexico District

Cypress Creek and Sulphur River Drainages in North East Texas -- New Orleans District, Lower Mississippi Valley Division

Physical, chemical, and hydrological data obtained in conjunction with Corps of Engineers projects are not published by the Corps, although they may be included in Geological Survey publications. In general, the data are available by inquiry to the appropriate District Office.

### B. Department of Agriculture

 Agricultural Research Service'
 Soil and Water Conservation Research Division Bushland, Texas 79012

Chief, Southern Plains Branch: Dr. J. R. Johnston

The A.R.S. carries on research in Watershed Hydrology, Erosion and Sedimentation in small reservoirs, water quality as related to salinity and drainage problems, and in ground water recharge.

 Agricultural Stabilization and Conservation Service State Office U.S.D.A. Building College Station, Texas

Most counties in Texas have an ASCS office.

Much of the State is included in aerial photographs used in the ASCS programs. Index sheets showing the areas photographed and application forms are available at the State Office or at the County Office concerned. The photographs are available at scales from 1 inch - 1667 feet to 1 inch - 400 feet.

3. Soil Conservation Service State Office P.O. Box 648 Temple, Texas 76501

State Conservationist: Mr. H.N. Smith

The State is divided into work unit offices, not strictly on a county basis. The SCS has two programs of interest: the small watershed program, which includes construction of small reservoirs, and the farm pond program. Information about these projects can be obtained from the State Office or from the local work unit offices.

### C. Department of the Interior

### 1. Office of Water Resources Research

The office was established in 1964 to permit Federal-State cooperation in research and training in water resources. The office functions primarily through water resources institutes established in each state at a college or university. The Water Resources Institute in Texas is at Texas A&M University.

Director: Dr. Ernest M. Smerdon

The Institute has a cooperative agreement with the University of Texas, Texas Technological College, and the University of Houston for water resources research in Texas.

2. Bureau of Reclamation
Box 1946 Federal Building
Austin, Texas 78701

The Red River and Canadian River Drainages come under the Oklahoma City Planning Office. The rest of Texas comes under the Austin office.

The Chief Engineer's office in the Federal Center, Denver, Colorado, is the repository for information about Bureau of Reclamation projects. Requests for data should be directed to the Denver office.

Federal Water Pollution Control Administration
 South Central Regional Office
 1114 Commerce Street
 Dallas, Texas 75202

Regional Director: Dr. Jerome H. Svore

Research in Texas will be primarily under the Robert S. Kerr Water Research Center, Box 1198, Ada, Oklahoma 74820

Director: Mr. William C. Galegar

4. U.S. Geological Survey
Water Resources Division
Texas District
Federal Building
Austin, Texas 78701

District Chief: Mr. Trigg Twichell

Assistant District Chief: Mr. Charles H. Hembree

Mr. Hembree is in charge of water quality investigations. There are sub-district offices in Fort Worth, Houston, San Angelo, San Antonio, and Wichita Falls.

The Water Resources Division carries on a comprehensive program in hydrology and water chemistry in cooperation with many agencies and organizations.

Publications concerning Texas are indexed in two publications available from the Texas Water Development Board (3) (4).

The district office of the Water Resources Division, Geological Survey, publishes a Quarterly Information Bulletin which contains a selected list of recent U.S. Geological Survey publications, reports released during the quarter by the Geological Survey Office and by the Water Development Board, and notice of establishment, discontinuation, or change in operation of basic data collecting stations.

Geological Survey publications and maps are not dispensed by the District Office in Austin. They may be obtained on an over-the-counter basis only (no mail orders) from the U.S. Geological Survey, Public Inquiry Office, 602 Thomas Bldg., Dallas, Texas.

Mail orders for maps and publications should be to the Denver Distribution Center, Geological Survey, Federal Center, Denver, Colorado 80225.

Three ordering aids available from the sources listed above are: "Index to Topographical Mapping in Texas," "Water Resources Investigations in Texas," and "Geologic and Water-Supply Papers and Maps -- Texas."

Copies of basic data prior to publication or of unpublished records may be obtained upon request to the District Office, or at the Sub-district offices within which the data were collected.

- 5. Fish and Wildlife Service
  Bureau of Sport Fisheries and Wildlife
  Southwest Region (Region 2)
  Box 1306
  Albuquerque, New Mexico 87103
  - a) Branch of River Basin Studies 1104 T&P Building Fort Worth, Texas 76102

Field Supervisor: Mr. John G. Degani

The River Basins Branch is charged with evaluating the effect of proposed Federal water resources projects. They conduct only minimal research, relying primarily on the available published data. Their reports are usually not published. Inquiries concerning the reports should be addressed to the Albuquerque office.

b) National Reservoir Research Program 113 South East Street Fayetteville, Arkansas 72701

Director: Mr. Robert M. Jenkins

The program is not currently active in Texas but may be in the future. The Director has published a fine bibliography on Reservoir Biology (7).

# COURSES AT TEXAS COLLEGES AND UNIVERSITIES IN THE AREAS OF LIMNOLOGY, AQUATIC BIOLOGY, AND ICTHYOLOGY

As of June, 1966

Arlington State College, Arlington, Texas

Aquatic Biology -- Dr. Thomas Hellier

Baylor University, Waco, Texas

Phycology -- Dr. Floyd F. Davidson

East Texas State University, Commerce, Texas

Aquatic Biology -- Dr. Daude N. Griffin Advanced Aquatic Biology -- Dr. Daude N. Griffin

Lamar State College of Technology, Beaumont, Texas

Limnology -- Dr. Richard Harrel Ichthyology --

Midwestern University, Wichita Falls, Texas

Limnology -- Dr. Walter N. Dalquest

### North Texas State University, Denton, Texas

Limnology -- Dr. J.K.G. Silvey

Limnological Methods -- Dr. J.K.G. Silvey

Phycology -- Dr. Harold Schlichting, Jr.

Fisheries -- Dr. Kenneth Stewart

Physiology of the Algae -- Dr. B. Dwain Vance

Viruses in Water -- Dr. Vernon Scholes

Bacteria in Water -- Dr. Rufus Guthrie

Actinomycology of Freshwater -- Dr. Archie Roach

Herpetology and Ichthyology --

Southern Methodist University, Dallas, Texas

Aquatic Biology -- Dr. E.P. Cheatum

Southwest Texas State College, San Marcos, Texas

Aquatic Biology (two courses) (new courses) Limnology

Stephen F. Austin State College, Nacogdoches, Texas

Herpetology and Ichthyology -- Dr. Edwin Michael

Texas A&M University, College Station, Texas

Aquatic Biology -- Dr. William J. Clark

Ecology and Taxonomy of the Algae -- Dr. William J. Clark

Aquatic Ecology -- Dr. William J. Clark

Ichthyology -- Dr. Richard Baldauf

Biology of Fishes -- Dr. Richard Baldauf

Fisheries Survey -- Dr. Richard Baldauf

Texas Christian University, Fort Worth, Texas

Ichthyology -- Dr. Clifford E. Murphy

Limnology -- Dr. Clifford E. Murphy

Texas Woman's University, Denton, Texas

Fresh-water Biology

University of Texas, Austin, Texas

Phycology =- Dr. Harold C. Bold

Rish Research -- Dr. Clark Hubbs

Ichthyology -- Dr. Clark Hubbs

Limnology -- Dr. Bassett Maguire

### APPENDIX A

### COVERING LETTER AND QUESTIONNAIRE

Dear	nan namen have grown and producer many over herefore have been		

(ADDRESS)

As part of a project with the Water Resources Institute we are compiling a roster of persons active in teaching or research in limnology, aquatic biology, ichthyology, or related fields; and who have an interest in the inland waters of Texas.

The study does not cover the marine environment, but we would like to include persons interested in intertidal waters whose orientation is primarily from the fresh water side.

The study does not include the broad areas of pollution or water treatment, but we would like to include persons from these areas who are doing field studies involving natural waters.

Would you please fill out the enclosed questionnaire? A stamped return addressed envelope is enclosed.

A roster of persons to whom this list is being sent is also enclosed. If you know of anyone in these areas who has been omitted, please list their name and address on the questionnaire.

A copy of the final report will be sent to all respondents.

Sincerely,

William J. Clark Assistant Professor

### Questionnaire for Compilation of a Roster of Persons in Texas Involved in Teaching or Research in Limnology, Freshwater Biology, Ichthyology or Related Fields

NAME		My interests do not include the fields covered but I would like to receive a copy of the report				
If more than one en	try in a list applies	, number ir	order of priority			
Major Field	Specialization		Which general group of organisms do you have a			
Biology	Taxonomy		special knowledge of?			
Botany	Physiology		Bacteria			
Zoology	Anatomy-Morph	ology				
Microbiology	Ecology		Algae			
Limnology	Other		Protozoa			
Hydrology			Rotifers			
Geology			Molluscs			
Engineering			Crustacea			
Chemistry		Insects				
Other	The state of the s		F1shes			
			Other			
What is your primary	y area of interest	What spe	ecific group <b>of aquatic</b>			
in the aquatic field	d?	organisms do you have special knowledge of?				
Courses taught which field (give number			k if willing to aid in ing specimens in your area			
		of special interest				

This questionnaire should also be sent to:

### APPENDIX B

## A PARTIAL LIST OF TAXONOMIC PAPERS FROM STATES BORDERING TEXAS

- Alvarez, Jose. 1950. Claves para la Determinación de Especies en los Peces de las Aguas Continentales Mexicanas. Secretaria de Marina, Dirreción General de Pesca y Industrias Conexas, Mexico.
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- Hubricht, Leslie and John G. Mackin. 1940. Descriptions of nine new species of Amphipod crustaceans, with notes and new localities for other species. Amer. Midl. Nat. 23(1):187-218.
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- Leake, Dorothy V. 1945. The algae of Crystal Lake, Cleveland County, Oklahoma. Amer. Midl. Nat. 34:750-768.
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- 1931. Studies on the crustacea of Oklahoma II. Notes on Cladoceran fauna. Proc. Okla. Acad. Sci. 11:22-28.
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- 1939. Key to the species of Phyllopoda of Oklahoma and neighboring states. Proc. Okla. Acad. Sci. 19:45-47. 1940. A key to the Oklahoma species of the family Asellidae. Proc. Okla. Acad. Sci. 20:17-18. 1940. A new species of conchostracan phllopod, Eulimnadia antlei from Oklahoma. Amer. Midl. Nat. 23(1):219-221 1941. A key to the species of Amphipoda of Oklahoma. Proc. Okla. Acad. Sci. 21:29-30. - and Leslie Hubricht. 1938. Records and distribution of species of Isopods in Central and Southern United States with descriptions of four new species of Monocosellus and Asellus (Asellota, Asellidae). Amer. Midl. Nat. 19(3):628-637. and Leslie Hubricht. 1940. Descriptions of seven new species of Caecidotea (Isopoda, Asellidae) from Central United States. Trans. Amer. Micros. Soc. 59(3):383-397. Meek, Seth E. 1896. A List of fishes and mollusks collected in Arkansas and Indian Territory in 1894. Bulletin of the U.S. Commission of Fisheries, 15(1895):341-349. 1893, A catalog of the fishes of Arkansas. Ann. Rept. Geol. Surv. Ark., 1891 (2):215-276. 1894. Report of investigations respecting the fishes of Arkansas, conducted during 1891, and 1893, with a synopsis of previous explorations in the same state. Bulletin of the U.S. Commission of Fisheries, 14(1894):67-94. 1904. The Fresh-water Fishes of Mexico North of the Isthumus of Tehuantepec. Field Columbian Museum Publication, Vol. V. Moore, George and Frank B. Cross. 1950. Additional Oklahoma fishes with validation of Poecilichthys parvipinnis (Gilbert & Swain). Copeia 1950(2):139-148. 1952. Checklist of fishes of Oklahoma. Publication of the Oklahoma Game and Gish Department, 11 pp.
- Vinyard, William C. 1958. The algae of Oklahoma (exclusive of diatoms). Dissertation, University of Michigan.