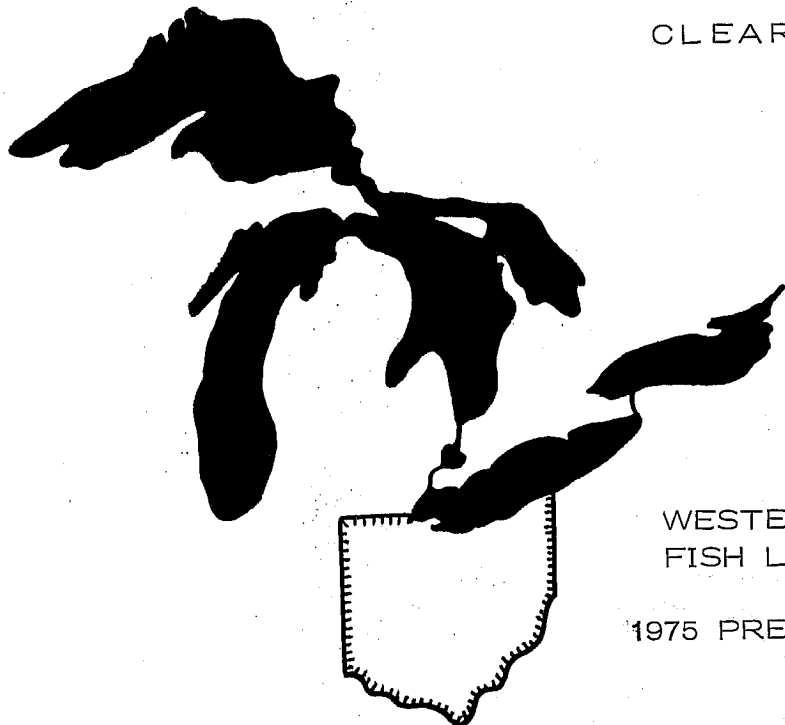


CLEAR TECHNICAL REPORT NO. 47

(REVISED)



WESTERN LAKE ERIE
FISH LARVAE STUDY

1975 PRELIMINARY DATA
REPORT

Prepared by

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THE OHIO STATE UNIVERSITY
CENTER FOR LAKE ERIE AREA RESEARCH
COLUMBUS, OHIO

March 1977

WEST END OF LAKE ERIE

SCALE 1:300,000
SOUNDINGS IN FEET

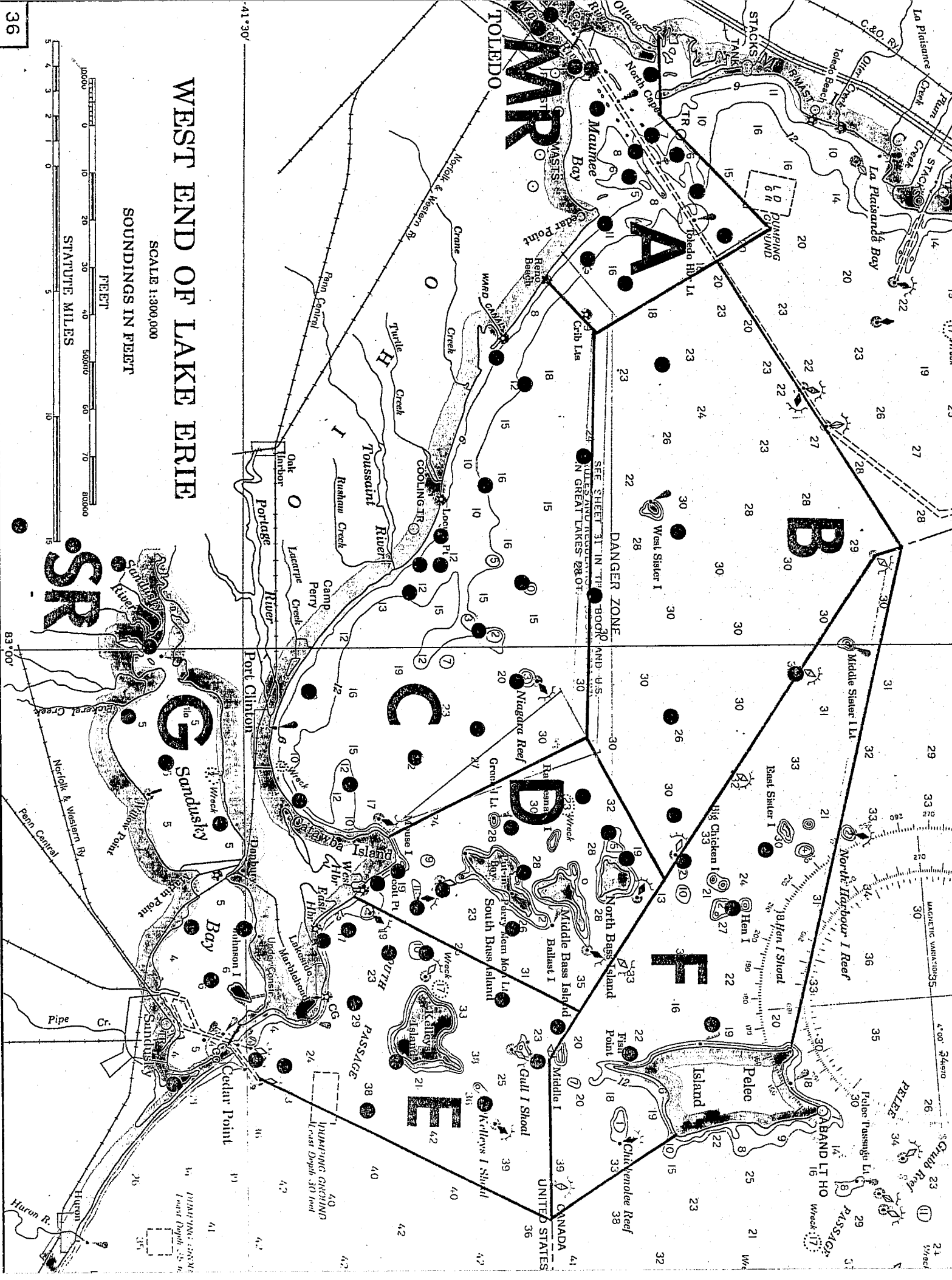
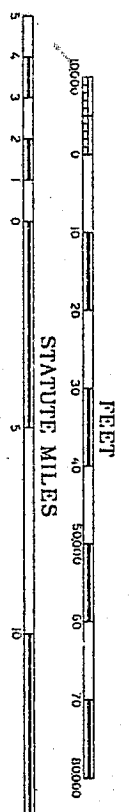


TABLE 1

WESTERN LAKE ERIE FISH LARVAE SURVEY
1975 CRUISE SCHEDULE

<u>Cruise No.</u>	<u>Cruise Dates</u>
1	April 10 - 13
2	April 20 - 23
3	April 30 - May 3
4	May 10 - 13
5	May 20 - 23
6	May 30 - June 2
7	June 9 - 12
8	June 19 - 22
9	June 29 - July 2
10	July 9 - 12
11	July 19 - 22
12	July 29 - August 1
13	August 8 - 11
14	August 18 - 21
15	August 28 - 31

TABLE 2

COLLECTION DATES FOR WESTERN LAKE ERIE
FISH LARVAE SURVEY - 1975

Station No.	Field No.	Cruise No.									
		1	2	3	4	5	6	7	8	9	10
1	R-1		6-6	6-25	7-8	7-24	8-5	8-25	9-5	9-19	10-3
2	R-2		6-6	6-25	7-8	7-24	8-5	8-25	9-5	9-19	10-3
3	R-3	5-16	6-6	6-25	7-8	7-24	8-5			9-19	10-3
4	R-4		6-6	6-25	7-8	7-24	8-5	8-25	9-5	9-19	10-3
5	A 1/1		5-24	6-3	6-17	6-22	7-1	7-15	8-4	9-3	
6	A 1/3		5-24	6-3	6-17	6-22	7-1	7-15	8-4	9-3	
6a		5-16	6-6		7-8	7-24	8-5	8-25	9-5	9-19	10-3
6b							8-5				
7	A 3/1		5-24	6-3	6-17	6-22	7-1	7-15	8-4	9-3	
8	A 1/2		5-24	6-3	6-17	6-22	7-1	7-15	8-4	9-3	
9	B 4/1		5-24								
10	A 2/1		5-24	6-3	6-17	6-22	7-1	7-15	8-4	9-3	
10a		5-16	6-6		7-8	7-24	8-5	8-25	9-5		10-3
10b							8-5				
11	A 1/4		5-24	6-3	6-17	6-22	7-1	7-15	8-4	9-3	
12	A 2/2		5-24	6-3	6-17	6-22	7-1	7-15	8-4	9-3	
13	A 3/2		5-24	6-3	6-17	6-22	7-1	7-15	8-4	9-3	
14	B 4/2		5-24	6-3	6-17	6-22	7-1	7-15	8-4	9-3	
15	B 5/1		5-24	6-3	6-17	6-22	7-1	7-15	8-4	9-3	
16	B 6/1		5-23								
17	B 6/2		5-23	6-2	6-16	6-21	7-1	7-15	8-1	8-28	
18	C 1/1		5-25	6-2	6-15	6-22	7-2	7-15			
19	C 3/1		5-25	6-2	6-15	6-22	7-2	7-15	8-4	9-3	
20	C 4/1		5-24	6-2	6-16	6-22	7-2	7-15	8-4	9-3	
21	C 2/1		5-25	6-2	6-15	6-22	7-2	7-15	8-4	9-3	
22	C 1/2	5-12	5-25	6-2	6-15	6-22	7-2	7-13	8-4	8-30	
23	C 2/2	5-12	5-25	6-2	6-15	6-22	7-2	7-13	8-4	9-3	
24	C 3/2		5-25	6-2	6-15	6-22	7-2	7-13			
25	C 5/1		5-24	6-2	6-16	6-23	7-2	7-15	8-4	9-3	
26	C 1/3		5-25	6-2	6-16	6-22	7-2	7-13	8-4	8-30	
27	C 1/4		5-25	6-2	6-16	6-23	7-2	7-13	8-4	8-30	
28	C 5/2		5-25	6-2	6-16	6-23	7-2	7-13	8-4	8-30	
29	C 4/2		5-22	6-3	6-14	6-23	7-2	7-13	8-2	8-30	
30	C 2/3	5-12	5-22	6-3	6-15	6-23	7-2	7-13	8-2	9-3	
31	C 1/5	5-12	5-22	6-3	6-15	6-23	7-2	7-13			
32	C 3/3	5-12	5-22	6-3	6-15	6-23	7-2	7-13	8-2	8-28	
33	D 6/1		5-23	6-2	6-14	6-21	7-1	7-13	8-1	8-27	
34	D 2/1		5-23	6-2	6-14	6-21	7-1	7-15	8-1	8-28	
35	D 4/1		5-23	6-2	6-14	6-21	7-1	7-15	8-1	8-27	
36	D 5/1	5-13	5-22	6-2	6-14	6-21	7-2	7-13	8-1	8-27	

TABLE 2 CON'T.

COLLECTION DATES FOR WESTERN LAKE ERIE
FISH LARVAE SURVEY - 1975
(Continued)

Station No.	Field No.	Cruise No.									
		1	2	3	4	5	6	7	8	9	10
37	D 5/1	5-13	5-23	6-1	6-14	6-23	7-3	7-11	8-1	8-27	
38	D 2/2	5-13	5-23	6-1	6-14	6-23	7-3	7-11	8-1	8-27	
39	D 3/2	5-13	5-23	6-1	6-14	6-23	7-3	7-11	8-1	8-29	
40	D 1/1		5-22	6-4	6-17	6-23	7-2	7-13	8-4	9-3	
41	D 3/1		5-22	6-1	6-12	6-21	7-3	7-11	8-2	8-28	
42	D 5/2	5-13	5-23	6-1	6-14	6-23	7-6	7-11	8-1	8-28	
43	D 6/2	5-13	5-22	6-1	6-12	6-21	7-3	7-12	8-2	8-28	
44	E 1/1	5-13	5-23	6-3	6-14	6-23	7-3	7-11			
45	E 3/1	5-13	5-23	6-1	6-14	6-23	7-3	7-11	8-1	8-27	
46	E 3/2	5-13	5-23	6-3	6-14	6-23	7-3	7-12	8-1	8-27	
47	E 6/1	5-13	5-22	6-1	6-12	6-21	7-3	7-12	8-2	8-28	
48	E 5/1	5-13	5-22	6-1	6-12	6-21	7-3	7-12	8-2	8-28	
49	E 2/1	5-13	5-22	6-4	6-12	6-21	7-3	7-12	8-2	8-28	
50	E 5/2	5-13	5-23	6-1	6-14	6-22	7-3	7-11	8-1	8-27	
51	E 2/2	5-13	5-22	6-1	6-14	6-23	7-3	7-12	8-1	8-28	
52	E 1/2	5-13	5-22	6-1	6-12	6-21	7-3	7-12	8-2	8-28	
53	E 2/3	5-13	5-23								
54	E 4/2	5-13	5-23								
55	E 6/2	5-13	5-23	6-1	6-14	6-23	7-3	7-12	8-2	8-28	
56	B 5/2		5-24	6-2	6-16	6-21	7-2	7-12			
57	F 6/1			6-2	6-16	6-21	7-1	7-12	8-1	8-28	
58	F 2/1				6-16	6-21	7-1	7-15	8-1	8-28	
59	F 1/1			6-2	6-16	6-21	7-1	7-15	8-1	8-28	
60	F 3/1			6-2	6-14	6-21	7-3	7-12	8-2	8-28	
61	F 4/1			6-1	6-14	6-21	7-3	7-12	8-2	8-28	
62	D 4/2	5-13	5-23	6-4	6-14	6-23	7-3	7-11	8-1	8-29	
63	E 4/1	5-13	5-23	6-3	6-14	6-23	7-3	7-11	8-1	8-29	

TABLE 3

WESTERN LAKE ERIE FISH LARVAE SURVEY
COLLECTION STATIONS

Sector	Station No.	Field Notation	Latitude	Longitude	Depth Zone
A	1	R-1	N41°37.3'	W83°33.4'	R
	2	R-2	N41°39.2'	W83°31.3'	R
	3	R-3	N41°41.6'	W83°26.4'	R
	4	R-4	N41°42.3'	W83°26.7'	R
	5	A 1/1	N41°43.7'	W83°25.7'	1
	6	A 1/3	N41°45.0'	W83°22.8'	1
	7	A 3/1	N41°46.3'	W83°20.2'	3
	8	A 1/2	N41°42.2'	W83°24.6'	1
	10	A 2/1	N41°43.5'	W83°21.8'	2
	11	A 1/4	N41°43.1'	W83°20.8'	1
	12	A 2/2	N41°42.4'	W83°18.5'	2
B	13	A 3/2	N41°43.4'	W83°17.4'	3
	9	B 4/1	N41°47.5'	W83°18.1'	4
	14	B 4/2	N41°44.4'	W83°12.7'	4
	15	B 5/1	N41°44.7'	W83°05.9'	5
	16	B 6/1	N41°45.5'	W82°57.2'	6
	17	B 6/2	N41°45.0'	W82°51.8'	6
C	56	B 5/2	N41°49.2'	W82°59.0'	5
	18	C 1/1	N41°39.1'	W83°14.0'	1
	19	C 3/1	N41°40.0'	W83°11.7'	3
	20	C 4/1	N41°41.5'	W83°08.7'	4
	21	C 2/1	N41°37.8'	W83°07.4'	2
	22	C 1/2	N41°36.0'	W83°04.0'	2
	23	C 2/2	N41°36.4'	W83°03.8'	2
	24	C 3/2	N41°36.4'	W83°02.2'	3
	25	C 5/1	N41°41.5'	W83°02.1'	5
	26	C 1/3	N41°37.9'	W83°00.9'	1
	27	C 1/4	N41°39.8'	W82°58.4'	1
	28	C 5/2	N41°38.8'	W82°56.5'	5
	29	C 4/2	N41°35.7'	W82°54.4'	4
	30	C 2/3	N41°32.2'	W82°57.7'	2
	31	C 1/5	N41°31.6'	W82°53.0'	1
32	C 3/3	N41°33.2'	W82°53.2'	3	
64	C 2/4	N41°36.4'	W83°04.5'	2	
65	C 2/5	N41°36.0'	W83°03.5'	2	

TABLE 3 CON'T.

WESTERN LAKE ERIE FISH LARVAE SURVEY
COLLECTION STATIONS CONTINUED

Sector	Station No.	Field Notation	Latitude	Longitude	Depth Zone
D	33	D 6/1	N41°42.0'	W82°52.9'	6
	34	D 2/1	N41°42.8'	W82°51.3'	2
	35	D 4/1	N41°43.5'	W82°50.2'	4
	36	D 5/1	N41°39.7'	W82°51.4'	5
	37	D 1/2	N41°34.5'	W82°49.2'	1
	38	D 2/2	N41°35.1'	W82°49.5'	2
	39	D 3/2	N41°37.6'	W82°49.1'	3
	40	D 1/1	N41°39.6'	W82°49.4'	1
	41	D 3/1	N41°41.3'	W82°47.8'	3
	42	D 5/2	N41°39.3'	W82°47.2'	5
	43	D 6/2	N41°41.2'	W82°44.6'	6
	62	D 4/2	N41°36.6'	W82°48.0'	4
	E	44	E 1/1	N41°32.5'	W82°46.7'
45		E 3/1	N41°33.4'	W82°47.3'	3
46		E 3/2	N41°36.0'	W82°45.6'	3
47		E 6/1	N41°38.7'	W82°42.9'	6
48		E 5/1	N41°40.7'	W82°41.6'	5
49		E 2/1	N41°39.8'	W82°40.9'	2
50		E 5/2	N41°33.6'	W82°43.7'	5
51		E 2/2	N41°35.2'	W82°40.9'	2
52		E 1/2	N41°38.3'	W82°38.8'	1
53		E 2/3	N41°30.4'	W82°42.6'	2
54		E 4/2	N41°31.1'	W82°41.5'	4
55		E 6/2	N41°34.8'	W82°39.6'	6
63		E 4/1	N41°35.0'	W82°45.6'	4
F	57	F 6/1	N41°47.2'	W82°50.0'	6
	58	F 2/1	N41°45.3'	W82°49.5'	4
	59	F 1/1	N41°46.2'	W82°49.1'	1
	60	F 3/1	N41°45.4'	W82°41.7'	3
	61	F 4/1	N41°42.6'	W82°41.2'	4

TABLE 4
WESTERN LAKE ERIE FISH LARVAE SURVEY
AREA AND VOLUME CALCULATIONS

Sector	Depth Zone	Depth Range (m)	Area (Km ²)	Volume (m ³)
MR A	R	0 - 10 Total	7.84	4.21 × 10 ⁷
	1	0 - 2	57.34	5.73 × 10 ⁷
	2	2 - 4	31.00	9.30 × 10 ⁷
	3	4 - 6	34.11	1.71 × 10 ⁸
		Total	122.45	3.21 × 10 ⁸
B	4	6 - 8	111.28	7.77 × 10 ⁸
	5	8 - 10	107.52	9.72 × 10 ⁸
	6	>10	96.48	1.06 × 10 ⁹
		Total	315.28	2.81 × 10 ⁹
C	1	0 - 2	21.70	2.17 × 10 ⁷
	2	2 - 4	81.42	2.44 × 10 ⁸
	3	4 - 6	126.47	6.30 × 10 ⁸
	4	6 - 8	109.41	7.63 × 10 ⁸
	5	8 - 10	52.57	4.73 × 10 ⁸
	Total	391.56	2.13 × 10 ⁹	
D	1	0 - 2	7.15	7.15 × 10 ⁶
	2	2 - 4	8.04	2.41 × 10 ⁷
	3	4 - 6	12.18	6.10 × 10 ⁷
	4	6 - 8	35.38	2.48 × 10 ⁸
	5	8 - 10	92.10	8.29 × 10 ⁸
	6	>10	57.96	6.38 × 10 ⁸
	Total	212.81	1.81 × 10 ⁹	
E	1	0 - 2	7.02	7.02 × 10 ⁶
	2	2 - 4	9.80	2.94 × 10 ⁷
	3	4 - 6	28.33	1.17 × 10 ⁸
	4	6 - 8	37.15	2.60 × 10 ⁸
	5	8 - 10	39.66	3.57 × 10 ⁸
	6	>10	137.02	1.51 × 10 ⁹
	Total	253.97	2.28 × 10 ⁹	
F	1	0 - 2	4.28	4.28 × 10 ⁶
	2	2 - 4	7.52	2.26 × 10 ⁷
	3	4 - 6	20.19	1.01 × 10 ⁸
	4	6 - 8	49.43	3.46 × 10 ⁸
	5	8 - 10	72.53	6.53 × 10 ⁸
	6	>10	155.19	1.71 × 10 ⁹
	Total	309.13	2.84 × 10 ⁹	

R - Maumee River Estuary from Corbutt Island downstream to mouth at bay side of Toledo Island (dredge disposal site).

TABLE 5 CON'T.

WESTERN LAKE ERIE FISH LARVAE STUDY
 Numbers of Larvae per 100 Cubic Meters
 at Surface and Bottom

Date: September 5, 1975

Lake Sector: Maumee River/Bay

Species	Station	1*	2*	3*	4*	6a*	10a*											
Gizzard shad	S																	
	B																	
Rainbow smelt	S																	
	B																	
Emerald shiner	S																	
	B																	
Spottail shiner	S																	
	B																	
Carp	S																	
	B																	
Freshwater drum	S																	
	B																	
Yellow perch	S																	
	B																	
White bass	S																	
	B																	
Walleye	S																	
	B																	
White sucker	S																	
	B																	
Sucker	S																	
	B																	
Sunfish	S																	
	B																	
Quillback carpsucker	S																	
	B																	
Mooneye	S																	
	B																	
Crappie	S																	
	B																	
Smallmouth bass	S																	
	B																	
Bass	S																	
	B																	
Alewife	S																	
	B																	
Logperch darter	S																	
	B																	
Channel catfish	S																	
	B																	
Tadpole madtom	S																	
	B																	
Unknown	S																	
	B																	

* No larvae in net.

TABLE 5 CON'T.

WESTERN LAKE ERIE FISH LARVAE STUDY
 Numbers of Larvae per 100 Cubic Meters
 at Surface and Bottom

Date: September 19, 1975

Lake Sector: Maumee River/Bay

Species	Station	1*	2*	3*	4*	6a*	10a*											
Gizzard shad	S																	
	B																	
Rainbow smelt	S																	
	B																	
Emerald shiner	S																	
	B																	
Spottail shiner	S																	
	B																	
Carp	S																	
	B																	
Freshwater drum	S																	
	B																	
Yellow perch	S																	
	B																	
White bass	S																	
	B																	
Walleye	S																	
	B																	
White sucker	S																	
	B																	
Sucker	S																	
	B																	
Sunfish	S																	
	B																	
Quillback carpsucker	S																	
	B																	
Mooneye	S																	
	B																	
Crappie	S																	
	B																	
Smallmouth bass	S																	
	B																	
Bass	S																	
	B																	
Alewife	S																	
	B																	
Logperch darter	S																	
	B																	
Channel catfish	S																	
	B																	
Tadpole madtom	S																	
	B																	
Unknown	S																	
	B																	

* No larvae in net.

TABLE 5 CON'T.

WESTERN LAKE ERIE FISH LARVAE STUDY
 Numbers of Larvae per 100 Cubic Meters
 at Surface and Bottom

Date: October 3, 1975

Lake Sector: Maumee River/Bay

Species	Station	1*	2*	3*	4*	6a*	10a*										
Gizzard shad	S B																
Rainbow smelt	S B																
Emerald shiner	S B																
Spottail shiner	S B																
Carp	S B																
Freshwater drum	S B																
Yellow perch	S B																
White bass	S B																
Walleye	S B																
White sucker	S B																
Sucker	S B																
Sunfish	S B																
Quillback carpsucker	S B																
Mooneye	S B																
Crappie	S B																
Smallmouth bass	S B																
Bass	S B																
Alewife	S B																
Logperch darter	S B																
Channel catfish	S B																
Tadpole madtom	S B																
Unknown	S B																

* No larvae in net.

TABLE 5 CON'T.

WESTERN LAKE ERIE FISH LARVAE STUDY
 Numbers of Larvae per 100 Cubic Meters
 at Surface and Bottom

Cruise No.: 5 (1975)
 Lake Sector: A

Station		Species													
		5	8	6	11	10	12	7	13						
Gizzard shad	S	43	1080	87	16	7	0	<1	0						
	B	59	232	6	8	1	8	2	<1						
Rainbow smelt	S		0	81	2				0						
	B		21	25	4				<1						
Emerald shiner	S					<1		1	1						
	B					<1		<1	2						
Spottail shiner	S		0		<1										
	B		5		0										
Carp	S				0										
	B				<1										
Freshwater drum	S	150	35	31	16	<1									
	B	348	31	44	26	<1									
Yellow perch	S		6	0											
	B		10	6											
White bass	S	54	155	0	2										
	B	59	62	6	3										
Walleye	S				0										
	B				<1										
White sucker	S														
	B														
Sucker	S														
	B														
Sunfish	S						0								
	B						<1								
Quillback carpsucker	S														
	B														
Mooneye	S														
	B														
Crappie	S														
	B														
Smallmouth bass	S														
	B														
Bass	S														
	B														
Alewife	S		0	6	0		0								
	B		5	0	1		<1								
Logperch darter	S	0	6												
	B	12	0												
Channel catfish	S														
	B														
Tadpole madtom	S														
	B														
Unknown	S								0						
	B								<1						

TABLE 6

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector A - Cruise 2, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.6×10^8	2.2×10^8	3.0×10^7				4.1×10^8
Rainbow smelt			3.4×10^6				3.4×10^6
Emerald shiner	7.4×10^4						7.4×10^4
Spottail shiner	7.4×10^4	2.3×10^5	8.6×10^5				1.2×10^6
Carp	1.5×10^6	4.7×10^5					2.0×10^6
Freshwater drum	7.4×10^4	2.3×10^5					3.1×10^5
Yellow perch	9.0×10^6	6.5×10^6	8.6×10^6				2.4×10^7
White bass	4.9×10^7	7.3×10^7	3.8×10^6				1.3×10^8
Walleye	2.1×10^6						2.1×10^6
White sucker		2.3×10^5					2.3×10^5
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Mooneye	7.4×10^4						7.4×10^4
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector A Cruise 8, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	3.3×10^8	2.3×10^8	4.3×10^7				6.1×10^8
Rainbow smelt	7.9×10^5						7.1×10^5
Emerald shiner	3.6×10^5	4.7×10^5					8.3×10^5
Spottail shiner							
Carp	1.4×10^6	4.7×10^5					1.6×10^6
Freshwater drum	9.7×10^7	5.0×10^7	3.8×10^6				1.5×10^8
Yellow perch	2.9×10^6	4.4×10^6	1.9×10^6				9.2×10^6
White bass	3.9×10^7	2.7×10^7	8.6×10^5				6.7×10^7
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector A Cruise 4, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.5×10^7	4.4×10^7					5.9×10^7
Rainbow smelt	2.8×10^6	4.2×10^6					7.0×10^6
Emerald shiner							
Spottail shiner							
Carp	7.4×10^4						7.4×10^4
Freshwater drum	5.6×10^6						5.6×10^6
Yellow perch	5.0×10^5	1.4×10^6					1.9×10^6
White bass	1.8×10^6	1.4×10^6					3.2×10^6
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector A Cruise 5, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.1×10^8	3.7×10^6	1.7×10^6				1.2×10^8
Rainbow smelt	9.5×10^6		4.3×10^5				10.0×10^6
Emerald shiner		4.7×10^5	2.1×10^6				2.6×10^6
Spottail shiner	4.3×10^5						4.3×10^5
Carp	7.4×10^4						7.4×10^4
Freshwater drum	4.9×10^7	4.7×10^5					5.0×10^7
Yellow perch	1.6×10^6						1.6×10^6
White bass	2.4×10^7						2.4×10^7
Walleye	7.4×10^4						7.4×10^4
White sucker							
Sunfish		2.3×10^5					2.3×10^5
Quillback carpsucker							
Crappie							
Alewife	8.6×10^5	2.3×10^5					1.1×10^6
Logperch darter	1.3×10^6						1.3×10^6
Troutperch							
Unknown			4.3×10^5				4.3×10^5
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE.
Sector A Cruise 6, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	2.7×10^8	6.9×10^7	3.0×10^7				3.6×10^8
Rainbow smelt	4.3×10^5						4.3×10^5
Emerald shiner	5.2×10^6	5.4×10^7	6.4×10^6				6.6×10^7
Spottail shiner		2.3×10^5					2.3×10^5
Carp		2.3×10^5					2.3×10^5
Freshwater drum	5.0×10^5	7.0×10^5					1.2×10^6
Yellow perch							
White bass	1.1×10^7						1.1×10^7
Walleye							
White sucker							
Sunfish	4.3×10^5						4.3×10^5
Quillback carpsucker							
Crappie	7.4×10^4						7.4×10^4
Alewife		2.3×10^5					2.3×10^5
Logperch darter	4.3×10^5						4.3×10^5
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE-ERIE
Sector A Cruise 7, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.9×10^7	6.2×10^7	2.7×10^7				1.1×10^8
Rainbow smelt							
Emerald shiner	5.0×10^5	4.7×10^5					9.7×10^5
Spottail shiner							
Carp	5.7×10^5		1.3×10^6				1.9×10^6
Freshwater drum	5.0×10^5	1.4×10^6					1.9×10^6
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish	7.4×10^4						7.4×10^4
Quillback carpsucker							
Crappie	3.6×10^5						3.6×10^5
Alewife		7.0×10^5					7.0×10^5
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector A Cruise 8, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	7.2×10^5	2.3×10^5					9.5×10^5
Rainbow smelt							
Emerald shiner	1.3×10^6	2.3×10^5					1.5×10^6
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife	2.9×10^5						2.9×10^5
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector A Cruise 9, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.4×10^5						1.4×10^5
Rainbow smelt		4.7×10^5					4.7×10^5
Emerald shiner	1.4×10^6	3.5×10^6	2.1×10^6				7.1×10^6
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector B Cruise 2, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt				1.6×10^7	5.6×10^7	2.7×10^6	7.4×10^7
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector B Cruise 3, 1975

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad					7.3 X 10 ⁶		7.3 X 10 ⁶
Rainbow smelt							
Emerald shiner				3.9 X 10 ⁶			3.9 X 10 ⁶
Spottail shiner				3.9 X 10 ⁶	2.4 X 10 ⁶		6.3 X 10 ⁶
Carp					4.9 X 10 ⁶		4.9 X 10 ⁶
Freshwater drum							
Yellow perch				3.9 X 10 ⁶		1.9 X 10 ⁷	2.2 X 10 ⁷
White bass							
Walleye							
White sucker					2.4 X 10 ⁶		2.4 X 10 ⁶
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector B Cruise 4, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad				6.5×10^6	6.8×10^7	1.6×10^7	9.0×10^7
Rainbow smelt					1.2×10^7		1.2×10^7
Emerald shiner				3.2×10^7	1.5×10^7	1.8×10^8	2.3×10^8
Spottail shiner				1.3×10^6			1.3×10^6
Carp							
Freshwater drum							
Yellow perch						2.7×10^6	2.7×10^6
White bass				1.3×10^6	4.9×10^6	2.7×10^6	8.8×10^6
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife				2.6×10^6			2.6×10^6
Logperch darter						4.9×10^6	4.9×10^6
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector B Cruise 5, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad				9.1×10^6	1.2×10^7	5.6×10^7	7.7×10^7
Rainbow smelt				1.3×10^6			1.3×10^6
Emerald shiner				3.2×10^7	4.1×10^7	1.2×10^8	1.9×10^8
Spottail shiner						1.9×10^7	1.9×10^7
Carp				1.3×10^6	2.4×10^6	2.4×10^7	2.8×10^7
Freshwater drum				1.3×10^6			1.3×10^6
Yellow perch							
White bass				1.3×10^6	2.4×10^6		3.8×10^6
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter				1.3×10^6			1.3×10^6
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector B Cruise 6, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad				2.8×10^7	2.4×10^6	2.7×10^6	2.8×10^7
Rainbow smelt				1.8×10^7	2.4×10^7	2.4×10^7	6.6×10^7
Emerald shiner				2.6×10^6	2.4×10^6	2.7×10^6	2.7×10^6
Spottail shiner					2.4×10^6		5.0×10^6
Carp					2.4×10^6		2.4×10^6
Freshwater drum							
Yellow perch				1.3×10^6	2.4×10^6		3.8×10^6
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter					4.9×10^6		4.9×10^6
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector B Cruise 7, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner				3.0×10^7	4.9×10^7	2.7×10^6	8.1×10^7
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector B Cruise 8, 1975

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad							
Rainbow smelt							
Emerald shiner				1.3×10^6			1.3×10^6
Spottail shiner				5.2×10^6			5.2×10^6
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector B Cruise 9, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner				2.6 X 10 ⁶		8.9 X 10 ⁶	1.2 X 10 ⁷
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 1, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch		3.9×10^8	9.5×10^6				4.0×10^8
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CONT.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 2, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.4×10^6	3.2×10^5					1.7×10^6
Rainbow smelt			2.1×10^6		1.2×10^6		3.3×10^6
Emerald shiner							
Spottail shiner							
Carp	1.4×10^5						1.4×10^5
Freshwater drum							
Yellow perch	1.3×10^8	1.8×10^8	2.1×10^7	3.4×10^7	5.0×10^7		4.1×10^8
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 3, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.2×10^7	2.3×10^8	2.1×10^9	5.7×10^6	1.2×10^6		2.3×10^9
Rainbow smelt		8.3×10^5	3.2×10^8	5.7×10^6	2.4×10^6		3.3×10^8
Emerald shiner					1.2×10^6		1.2×10^6
Spottail shiner							2.7×10^5
Carp	2.7×10^5						2.0×10^9
Freshwater drum	5.4×10^4	1.8×10^6	2.0×10^9	1.9×10^6	1.2×10^6		9.6×10^8
Yellow perch	6.5×10^5	4.9×10^6	9.5×10^8	3.8×10^6	1.2×10^6		1.4×10^6
White bass	2.2×10^5						
Walleye							
White sucker							
Sunfish							
Quillback carpsucker	2.8×10^4						2.8×10^4
Crappie	2.8×10^4	6.1×10^5					6.4×10^5
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CONT.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 4, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	4.8×10^6	2.3×10^7	1.4×10^7	7.6×10^6	3.5×10^6		5.2×10^7
Rainbow smelt							
Emerald shiner		6.1×10^5	1.1×10^6	7.6×10^6	1.7×10^7		2.6×10^7
Spottail shiner							
Carp	1.6×10^6	9.3×10^5					2.5×10^6
Freshwater drum	3.5×10^5	3.2×10^5					6.7×10^5
Yellow perch		1.2×10^6					1.2×10^6
White bass	1.4×10^5			1.9×10^6	1.2×10^6		3.2×10^6
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 5, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	7.6×10^5	1.9×10^7	1.1×10^7	3.1×10^7	9.5×10^6		7.0×10^7
Rainbow smelt	1.1×10^5						1.1×10^5
Emerald shiner	8.2×10^4		2.1×10^6	7.6×10^6	9.5×10^6		1.9×10^7
Spottail shiner	2.8×10^4	3.2×10^5					3.5×10^5
Carp	1.1×10^5						1.1×10^5
Freshwater drum		1.2×10^7	1.1×10^6				1.3×10^7
Yellow perch	8.2×10^4	3.2×10^5					4.0×10^5
White bass	1.1×10^6	3.2×10^5					1.4×10^6
Walleye							
White sucker							
Sunfish		3.2×10^5					3.2×10^5
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 6, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	6.3×10^5	1.3×10^7	1.1×10^6				1.5×10^7
Rainbow smelt							
Emerald shiner	4.9×10^5	1.8×10^6	1.3×10^7	4.2×10^7	1.5×10^7		7.4×10^7
Spottail shiner					1.2×10^6		2.4×10^6
Carp	2.8×10^4						2.8×10^4
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 7, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	8.2×10^4	9.3×10^5	7.4×10^6				8.4×10^6
Rainbow smelt		3.2×10^5					3.2×10^5
Emerald shiner		3.2×10^5	7.4×10^6	7.6×10^6			1.5×10^7
Spottail shiner							
Carp	2.8×10^4	3.2×10^5					3.5×10^5
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish			1.1×10^6				1.1×10^6
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 8, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner			2.1×10^6		4.7×10^6		6.8×10^6
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 9, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner		2.1×10^7		1.9×10^6			2.3×10^7
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 1, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	3.6×10^4	2.9×10^6		3.7×10^6			6.6×10^6
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 2, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt			1.5×10^5		1.5×10^7	8.0×10^6	2.3×10^7
Emerald shiner							
Spottail shiner	1.8×10^4						1.8×10^4
Carp							
Freshwater drum							
Yellow perch	3.6×10^5	2.4×10^5	7.5×10^6	1.5×10^7	4.6×10^7	2.4×10^7	9.2×10^7
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 3, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.3×10^5	3.6×10^5		2.5×10^6	2.1×10^6		5.0×10^6
Rainbow smelt			1.5×10^5				1.5×10^5
Emerald shiner							
Spottail shiner	1.8×10^4	1.2×10^5	6.1×10^5	6.2×10^5	4.1×10^6	8.0×10^6	1.3×10^7
Carp	3.6×10^4		3.7×10^6			3.2×10^6	6.9×10^6
Freshwater drum	5.4×10^4				2.1×10^6		2.1×10^6
Yellow perch	8.9×10^4	6.0×10^4	1.1×10^7	1.9×10^6	1.5×10^7	1.3×10^7	4.0×10^7
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 4, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	5.2×10^5	2.4×10^5	4.3×10^6	1.2×10^7	1.5×10^7	1.9×10^7	5.1×10^7
Rainbow smelt							
Emerald shiner			1.5×10^5			1.6×10^6	1.7×10^6
Spottail shiner			4.6×10^5	6.2×10^5		1.1×10^7	1.2×10^7
Carp		1.2×10^5	3.1×10^5		4.1×10^6		4.6×10^6
Freshwater drum	1.1×10^5		1.5×10^5		2.1×10^6	1.6×10^6	3.9×10^6
Yellow perch					2.1×10^6		2.1×10^6
White bass	1.4×10^5						1.4×10^5
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie	1.1×10^5						1.1×10^5
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 5, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	7.2×10^5	1.3×10^6	3.5×10^6	3.1×10^6	3.7×10^7	1.1×10^7	5.7×10^7
Rainbow smelt		6.0×10^4					6.0×10^4
Emerald shiner	7.2×10^4	1.8×10^5	2.9×10^6	2.5×10^6	1.0×10^7	7.2×10^7	8.8×10^7
Spottail shiner			1.5×10^5	1.2×10^6	4.1×10^6	1.6×10^6	7.1×10^6
Carp	2.9×10^5	1.8×10^5	4.6×10^5	3.1×10^6			4.0×10^6
Freshwater drum		1.2×10^5	1.5×10^5	6.2×10^5			8.9×10^5
Yellow perch							
White bass					2.1×10^6		2.1×10^6
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie	1.8×10^4						1.8×10^4
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CONT.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 6, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	2.7×10^5	1.8×10^5	3.1×10^5	1.9×10^6			2.6×10^6
Rainbow smelt					2.1×10^6		2.1×10^6
Emerald shiner	6.6×10^5	1.9×10^6	1.4×10^6	1.2×10^7	2.1×10^7	4.8×10^7	8.4×10^7
Spottail shiner				6.2×10^5		1.6×10^6	2.2×10^6
Carp	1.8×10^4		1.8×10^6			3.2×10^6	7.1×10^6
Freshwater drum	1.8×10^4	6.0×10^4	1.5×10^5				2.3×10^5
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CONT.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 7, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad		1.2×10^5					1.2×10^5
Rainbow smelt		6.0×10^4					6.0×10^4
Emerald shiner							
Spottail shiner							
Carp	3.6×10^4	6.0×10^4	3.1×10^5	1.2×10^6			1.6×10^6
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish		6.0×10^4					6.0×10^4
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 8, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner				6.2×10^5		1.6×10^6	2.2×10^6
Spottail shiner							
Carp				1.2×10^6			1.2×10^6
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie			1.5×10^5			1.6×10^6	1.7×10^6
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 9, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner	5.4×10^4	3.0×10^5			1.0×10^7	3.2×10^6	1.4×10^7
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 1, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt						3.8×10^6	3.8×10^6
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	5.4×10^5	10.0×10^4	8.8×10^5	2.0×10^6			3.5×10^6
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 2, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad		10.0×10^4	3.0×10^5	6.5×10^5			1.0×10^6
Rainbow smelt	2.8×10^5	5.0×10^4		6.5×10^5	3.6×10^6	2.5×10^8	2.5×10^8
Emerald shiner							
Spottail shiner			5.9×10^5	1.3×10^6			1.9×10^6
Carp							
Freshwater drum							
Yellow perch	4.0×10^5	3.5×10^6	1.6×10^7	3.6×10^7	1.9×10^7	1.5×10^8	2.2×10^8
White bass							
Walleye							
White sucker				6.5×10^5			6.5×10^5
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Unknown							
Whitefish						3.8×10^6	3.8×10^6
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 3, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.8×10^4		1.5×10^6	1.3×10^6	8.9×10^5	3.8×10^6	7.4×10^6
Rainbow smelt	1.8×10^4			2.6×10^6	8.9×10^5	7.6×10^6	1.1×10^7
Emerald shiner							
Spottail shiner	1.8×10^4	7.4×10^4	5.9×10^5	1.3×10^6		1.1×10^7	1.3×10^7
Carp		7.4×10^4			8.9×10^5	1.1×10^7	1.2×10^7
Freshwater drum							
Yellow perch	3.5×10^4	7.4×10^4	1.2×10^7	2.6×10^6	5.4×10^6	7.2×10^7	8.1×10^7
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 4, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	3.5×10^4	1.4×10^6	1.8×10^6	5.2×10^6	6.2×10^6	1.5×10^7	3.0×10^7
Rainbow smelt		7.4×10^4			2.7×10^6	3.8×10^6	6.5×10^6
Emerald shiner		2.3×10^5			2.7×10^6	1.1×10^7	1.4×10^7
Spottail shiner	5.3×10^4	4.4×10^5			7.1×10^6	3.8×10^7	4.5×10^7
Carp	3.5×10^4				8.9×10^5	3.8×10^6	4.7×10^6
Freshwater drum							
Yellow perch		1.5×10^5			8.9×10^5		1.0×10^6
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish						3.8×10^6	3.8×10^6
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 5, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.8×10^4	7.4×10^4	1.2×10^7	1.3×10^6	3.6×10^6		1.7×10^7
Rainbow smelt						3.8×10^6	3.8×10^6
Emerald shiner		1.5×10^5	1.5×10^6	2.6×10^6	1.3×10^7	1.1×10^7	2.9×10^7
Spottail shiner		2.2×10^5	2.9×10^5	2.6×10^6	8.9×10^5	1.5×10^7	1.9×10^7
Carp			2.9×10^5		8.9×10^5	2.6×10^7	2.8×10^7
Freshwater drum						3.8×10^6	3.8×10^6
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife			2.9×10^5				2.9×10^5
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector 6 Cruise 6, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	7.0×10^4	5.1×10^5	1.8×10^6	1.3×10^6	8.9×10^5	3.8×10^6	8.3×10^6
Rainbow smelt							
Emerald shiner	7.0×10^5	1.3×10^6	7.0×10^6	1.0×10^7	1.4×10^7	4.9×10^7	8.3×10^7
Spottail shiner						7.6×10^6	7.6×10^6
Carp	1.8×10^4	6.6×10^5				4.2×10^7	4.2×10^7
Freshwater drum		7.4×10^4			8.9×10^5		9.7×10^5
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 7, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad					8.9×10^5		8.9×10^5
Rainbow smelt							
Emerald shiner					8.9×10^5	3.8×10^6	4.7×10^6
Spottail shiner							
Carp	1.8×10^4				1.8×10^6		1.8×10^6
Freshwater drum							
Yellow perch							
White bass	1.8×10^4						1.8×10^4
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 8, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner	3.5×10^4						3.5×10^4
Spottail shiner							
Carp							
Freshwater drum					8.9×10^5		8.9×10^5
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 9, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner		2.2×10^5	2.9×10^5	6.5×10^5		3.8×10^6	4.9×10^6
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector F Cruise 3, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner				1.7×10^6			1.7×10^6
Spottail shiner			5.1×10^5	1.7×10^6			2.2×10^6
Carp	2.1×10^4						2.1×10^4
Freshwater drum							
Yellow perch	2.1×10^4		5.1×10^5	1.7×10^6		3.0×10^7	3.2×10^7
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector F Cruise 4, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	8.6×10^4		2.8×10^7	2.9×10^6		2.6×10^7	5.6×10^7
Rainbow smelt							
Emerald shiner	4.3×10^4			1.4×10^7		3.0×10^8	3.1×10^8
Spottail shiner	2.1×10^4			5.9×10^5			6.1×10^5
Carp			2.0×10^6				2.0×10^6
Freshwater drum							
Yellow perch						4.3×10^6	4.3×10^6
White bass				5.9×10^5		4.3×10^6	4.9×10^6
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife				1.2×10^6			1.2×10^6
Logperch darter							
Troutperch							
Bass			4.0×10^6				4.0×10^6
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector F Cruise 5, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	2.1×10^4			4.0×10^6		9.0×10^7	9.4×10^7
Rainbow smelt				5.9×10^5			5.9×10^5
Emerald shiner	9.0×10^5			1.4×10^7		1.2×10^8	2.0×10^8
Spottail shiner	4.3×10^4					3.0×10^7	3.0×10^7
Carp	2.1×10^4			5.9×10^5		3.8×10^7	3.9×10^7
Freshwater drum				5.9×10^5			5.9×10^5
Yellow perch							
White bass	2.1×10^4			5.9×10^5			6.1×10^5
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							5.9×10^5

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector F Cruise 6, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	2.1×10^4			1.0×10^7		4.3×10^6	1.5×10^7
Rainbow smelt							
Emerald shiner	4.1×10^5		5.1×10^6	8.1×10^6		3.8×10^7	5.2×10^7
Spottail shiner			5.1×10^5			4.3×10^6	4.8×10^6
Carp	1.3×10^5		5.1×10^5	1.1×10^6			1.8×10^6
Freshwater drum	2.1×10^4						2.1×10^4
Yellow perch							
White bass				5.9×10^5			5.9×10^5
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector F Cruise 7, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner			5.1×10^5	1.3×10^7		4.3×10^6	1.8×10^7
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CONT.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector F Cruise 8, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner			2.0×10^6	5.9×10^5			2.6×10^6
Spottail shiner			5.1×10^5	2.3×10^6			2.8×10^6
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector F Cruise 9, 1975

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner	4.3×10^4			1.2×10^6		1.4×10^7	1.6×10^7
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 7

WESTERN LAKE ERIE FISH LARVAE STUDY
CRUISE 1 (May 12-14, 1975)

Depth Zones Species	1	2	3	4	5	6	Maumee River	TOTAL
Gizzard shad								
Rainbow smelt								
Emerald shiner								
Spottail shiner								
Carp								
Freshwater drum								
Yellow perch	5.8×10^5	4.0×10^8	1.0×10^7	5.7×10^6				4.1×10^8
White bass								
Walleye								
White sucker								
Sunfish								
Quillback carpsucker								
Mooneye								
Crappie								
Smallmouth bass								
Alewife								
Logperch darter								
Unknown								
TOTAL								3.8×10^6

TABLE 7 CON'T.

WESTERN LAKE ERIE FISH LARVAE STUDY
CRUISE 2 (MAY 22-25, 1975)

Depth Zones Species	1	2	3	4	5	6	Maumee River	TOTAL
Gizzard shad	1.6×10^8	2.2×10^8	3.0×10^7	6.5×10^5			1.1×10^7	4.2×10^8
Rainbow smelt	2.8×10^5	5.0×10^4	5.7×10^6	1.6×10^7	7.5×10^7	2.6×10^8		3.6×10^8
Emerald shiner	7.4×10^4							7.4×10^4
Spottail shiner	9.2×10^4	2.3×10^5	1.4×10^6	1.3×10^6				3.1×10^6
Carp	1.6×10^6	4.7×10^5						2.3×10^6
Freshwater drum	7.4×10^4	2.3×10^5					2.1×10^5	3.0×10^5
Yellow perch	1.4×10^8	1.9×10^8	5.3×10^7	8.5×10^7	1.1×10^8	1.7×10^8	5.7×10^6	7.5×10^8
White bass	4.9×10^7	7.3×10^7	3.8×10^6				8.4×10^6	1.3×10^8
Walleye	2.1×10^6						5.6×10^6	7.7×10^6
White sucker		2.3×10^5		6.5×10^5			3.2×10^5	1.2×10^6
Sunfish								
Quillback carpsucker								
Mooneye	7.4×10^4							7.4×10^4
Crappie								
Smallmouth bass								
Alewife								
Logperch darter								
Unknown								
TOTAL	3.5×10^8	4.8×10^8	9.4×10^7	1.0×10^8	1.9×10^8	3.8×10^6 4.4×10^8	3.1×10^7	3.8×10^6

TABLE 7 CON'T.

WESTERN LAKE ERIE FISH LARVAE STUDY
CRUISE 4 (JUNE 11-17, 1975)

Depth Zones Species	1	2	3	4	5	6	Maumee River	TOTAL
Gizzard shad	2.1×10^7	6.8×10^7	4.7×10^7	3.5×10^7	9.2×10^7	7.6×10^7	7.2×10^6	3.5×10^8
Rainbow smelt	2.8×10^6	4.6×10^6			1.5×10^7	3.8×10^6		2.6×10^7
Emerald shiner	4.3×10^4	8.4×10^5	1.2×10^6	5.4×10^7	3.4×10^7	4.9×10^8		5.8×10^8
Spottail shiner	7.4×10^4	4.4×10^5	4.6×10^5	3.0×10^6	7.1×10^6	4.9×10^7		6.0×10^7
Carp	1.7×10^6	1.0×10^6	2.3×10^6		5.0×10^6	3.8×10^6	1.3×10^5	1.4×10^7
Freshwater drum	6.0×10^6	3.2×10^5	1.5×10^5		2.1×10^6	1.6×10^6	8.5×10^6	1.9×10^7
Yellow perch	5.0×10^5	2.8×10^6			3.0×10^6	6.9×10^6	1.8×10^4	1.3×10^7
White bass	2.1×10^6	1.4×10^6		3.8×10^6	6.0×10^6	6.9×10^6	3.8×10^5	2.0×10^7
Walleye								
White sucker								
Sunfish								
Quillback carpsucker						3.8×10^6		3.8×10^6
Mooneye								
Crappie	1.1×10^5							1.1×10^5
Smallmouth bass			4.0×10^6					4.0×10^6
Alewife				3.8×10^6				1.6×10^7
Logperch darter					4.9×10^6		5.4×10^4	5.4×10^4
Unknown								
TOTAL	3.4×10^7	7.9×10^7	6.6×10^7	9.6×10^7	1.7×10^8	6.4×10^8	1.6×10^7	

TABLE 7 CONT.

WESTERN LAKE ERIE FISH LARVAE STUDY
CRUISE 5 (JUNE 21-23, 1975)

Depth Zones Species	1	2	3	4	5	6	Maumee River	TOTAL
Gizzard shad	1.1×10^8	2.4×10^7	2.8×10^7	4.8×10^7	6.2×10^7	1.6×10^8	3.2×10^8	7.5×10^8
Rainbow smelt	9.6×10^6	6.0×10^4	4.3×10^5	1.9×10^6		3.8×10^6	6.4×10^6	2.2×10^7
Emerald shiner	1.1×10^6	7.9×10^5	8.6×10^6	5.9×10^7	7.5×10^7	3.9×10^8	3.0×10^5	5.3×10^8
Spottail shiner	5.0×10^5	5.4×10^5	4.5×10^5	3.8×10^6	5.0×10^6	6.5×10^7		7.5×10^7
Carp	4.9×10^5	1.8×10^5	7.5×10^5	5.0×10^6	3.3×10^6	8.9×10^7	1.5×10^5	9.9×10^7
Freshwater drum	4.9×10^7	1.3×10^7	1.2×10^6	2.5×10^6		3.8×10^6	4.9×10^8	5.6×10^8
Yellow perch	1.7×10^6	3.2×10^5					9.8×10^5	3.0×10^6
White bass	2.6×10^7	3.2×10^5		1.9×10^6	4.5×10^6		1.5×10^7	4.8×10^7
Walleye	7.4×10^4							7.4×10^4
White sucker								
Sunfish		5.5×10^5						5.5×10^5
Quillback carpsucker								
Mooneye								
Crappie	1.8×10^4							1.8×10^4
Smallmouth bass								
Alewife	8.6×10^5	2.3×10^5	2.9×10^5					1.4×10^6
Logperch darter	1.3×10^6			5.9×10^5				1.9×10^6
Unknown			4.3×10^5					4.3×10^5
TOTAL	2.0×10^8	4.0×10^7	4.0×10^7	1.2×10^8	1.5×10^8	7.1×10^8	8.4×10^8	

TABLE 7 CON'T.

WESTERN LAKE ERIE FISH LARVAE STUDY
CRUISE 6 (JULY 1-3, 1975)

Depth Zones Species	1	2	3	4	5	6	Maumee River	TOTAL
Gizzard shad	2.7×10^8	8.3×10^7	3.3×10^7	3.7×10^7	3.3×10^6	1.1×10^7	1.8×10^8	6.2×10^8
Rainbow smelt	4.3×10^5				2.9×10^6			3.3×10^6
Emerald shiner	7.4×10^6	5.9×10^7	3.2×10^7	9.2×10^7	7.5×10^7	1.6×10^8	2.0×10^5	4.3×10^8
Spottail shiner		2.3×10^5	5.1×10^6	6.2×10^5	1.2×10^6	1.6×10^7		2.3×10^7
Carp	1.9×10^5	8.9×10^5	2.3×10^6	3.7×10^6	4.5×10^6	4.5×10^7	9.0×10^4	5.7×10^7
Freshwater drum	5.4×10^5	8.3×10^5	1.5×10^5		3.3×10^6		3.7×10^7	4.2×10^7
Yellow perch								
White bass	1.1×10^7			1.9×10^6	2.4×10^6		1.1×10^5	1.5×10^7
Walleye								
White sucker								
Sunfish	4.3×10^5						7.2×10^4	5.0×10^5
Quillback carpsucker								
Mooneye								
Crappie	7.4×10^4							7.4×10^4
Smallmouth bass								
Alewife		2.3×10^5						2.3×10^5
Logperch darter	4.3×10^5				4.9×10^6			5.3×10^6
Channel catfish							7.2×10^4	7.2×10^4
TOTAL	2.9×10^8	1.4×10^8	7.3×10^7	1.4×10^8	9.8×10^7	2.3×10^8	2.2×10^8	

TABLE 7 CON'T.

WESTERN LAKE ERIE FISH LARVAE STUDY
CRUISE 8 (AUGUST 1-4, 1975)

Depth Zones Species	1	2	3	4	5	6	Maumee River	TOTAL
Gizzard shad	7.2×10^5	2.3×10^5					5.8×10^7	5.9×10^7
Rainbow smelt								
Emerald shiner	1.3×10^6	2.3×10^5	4.1×10^6	2.5×10^6	4.7×10^6	1.6×10^6	2.3×10^6	1.7×10^7
Spottail shiner								
Carp			5.1×10^5	8.8×10^6	8.9×10^5		5.4×10^4	9.4×10^6
Freshwater drum							1.6×10^6	2.5×10^6
Yellow perch							1.8×10^4	1.8×10^4
White bass								
Walleye								
White sucker								
Sunfish							1.1×10^5	1.1×10^5
Quillback carpsucker								
Mooneye								
Crappie			1.5×10^5			1.6×10^6		1.8×10^6
Smallmouth bass								
Alewife	2.9×10^5							2.9×10^5
Logperch darter								
Unknown								
TOTAL	2.3×10^6	4.6×10^5	4.8×10^6	1.1×10^7	5.6×10^6	3.2×10^6	6.2×10^7	

TABLE 8

ESTIMATED NUMBER OF FISH IN LAKE ERIE
CRUISES 1-9, 1975

Species	Cruise Date	1 May 12-14	2 May 22-25	3 June 1-4	4 June 11-17	5 June 21-23	6 July 1-3	7 July 11-15	8 Aug 1-4	9 Aug 27- Sept 3	TOTAL	MEAN
Gizzard shad			4.1×10^8	2.9×10^9	3.4×10^8	4.3×10^8	4.3×10^8	1.2×10^8	9.5×10^5	1.4×10^5	4.6×10^9	5.1×10^8
Rainbow smelt	3.8×10^6	3.5×10^8	3.5×10^8	3.5×10^8	2.6×10^7	1.6×10^7	2.5×10^6	3.8×10^5		4.7×10^5	7.5×10^8	8.3×10^7
Emerald shiner		7.4×10^4	6.4×10^6	6.4×10^6	5.8×10^8	5.3×10^8	4.3×10^8	1.2×10^8	1.5×10^7	7.6×10^7	1.8×10^9	2.0×10^8
Spottail shiner		3.1×10^6	3.7×10^7	3.7×10^7	6.0×10^7	7.6×10^7	2.3×10^7				2.0×10^8	2.2×10^7
Carp		2.1×10^6	2.6×10^7	2.6×10^7	1.4×10^7	9.9×10^7	5.6×10^7	5.6×10^6	9.3×10^6		2.1×10^8	2.3×10^7
Freshwater drum		3.1×10^5	2.1×10^9	2.1×10^9	1.0×10^7	7.0×10^7	4.9×10^6	1.9×10^6	8.9×10^5		2.2×10^9	2.4×10^8
Yellow perch	4.1×10^8	7.5×10^8	1.1×10^9	1.3×10^7	1.3×10^7	2.0×10^6					2.3×10^9	2.6×10^8
White bass		1.3×10^8	7.1×10^7	7.1×10^7	2.0×10^7	3.2×10^7	1.6×10^7	1.8×10^4			2.7×10^8	3.0×10^7
Walleye		2.1×10^6				7.4×10^4					2.2×10^6	2.4×10^8
White sucker		8.8×10^5									8.8×10^5	9.8×10^4
Sunfish				2.8×10^4		5.5×10^5	4.3×10^5	1.2×10^6			2.2×10^6	2.4×10^5
Quillback carpsucker					3.8×10^6						3.8×10^6	4.2×10^5
Mooneye			6.4×10^5	6.4×10^5	1.1×10^5	1.8×10^4	7.4×10^4	3.6×10^5	1.7×10^6		2.2×10^6	2.4×10^5
Crappie		7.4×10^4			4.0×10^6						3.8×10^6	4.2×10^5
Smallmouth bass					3.8×10^6	1.4×10^6	2.3×10^5	7.0×10^5			2.9×10^6	3.2×10^5
Alewife					4.9×10^6	1.9×10^6	5.3×10^6				4.0×10^6	4.4×10^5
Logperch darter					4.9×10^6	1.9×10^6	5.3×10^6				6.4×10^6	7.1×10^5
Unknown		3.8×10^6			1.1×10^9	4.3×10^5					1.2×10^5	1.3×10^4
TOTAL	4.1×10^8	1.6×10^9	6.6×10^9	1.1×10^9	1.3×10^9	1.3×10^9	9.7×10^8	3.0×10^8	2.8×10^7	7.7×10^7	4.2×10^6	4.7×10^5