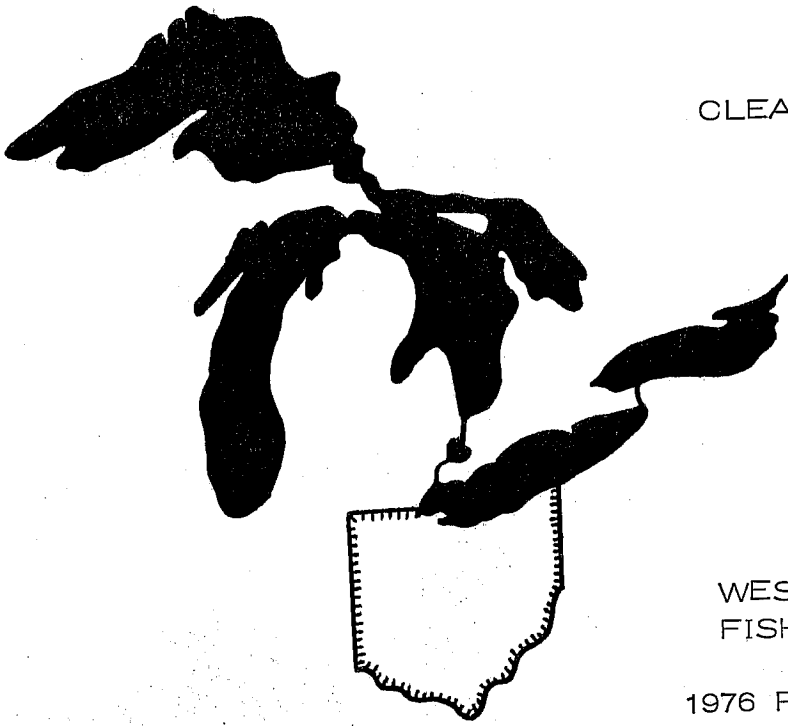


CLEAR TECHNICAL REPORT NO. 63



WESTERN LAKE ERIE
FISH LARVAE STUDY

1976 PRELIMINARY DATA
REPORT

Prepared by

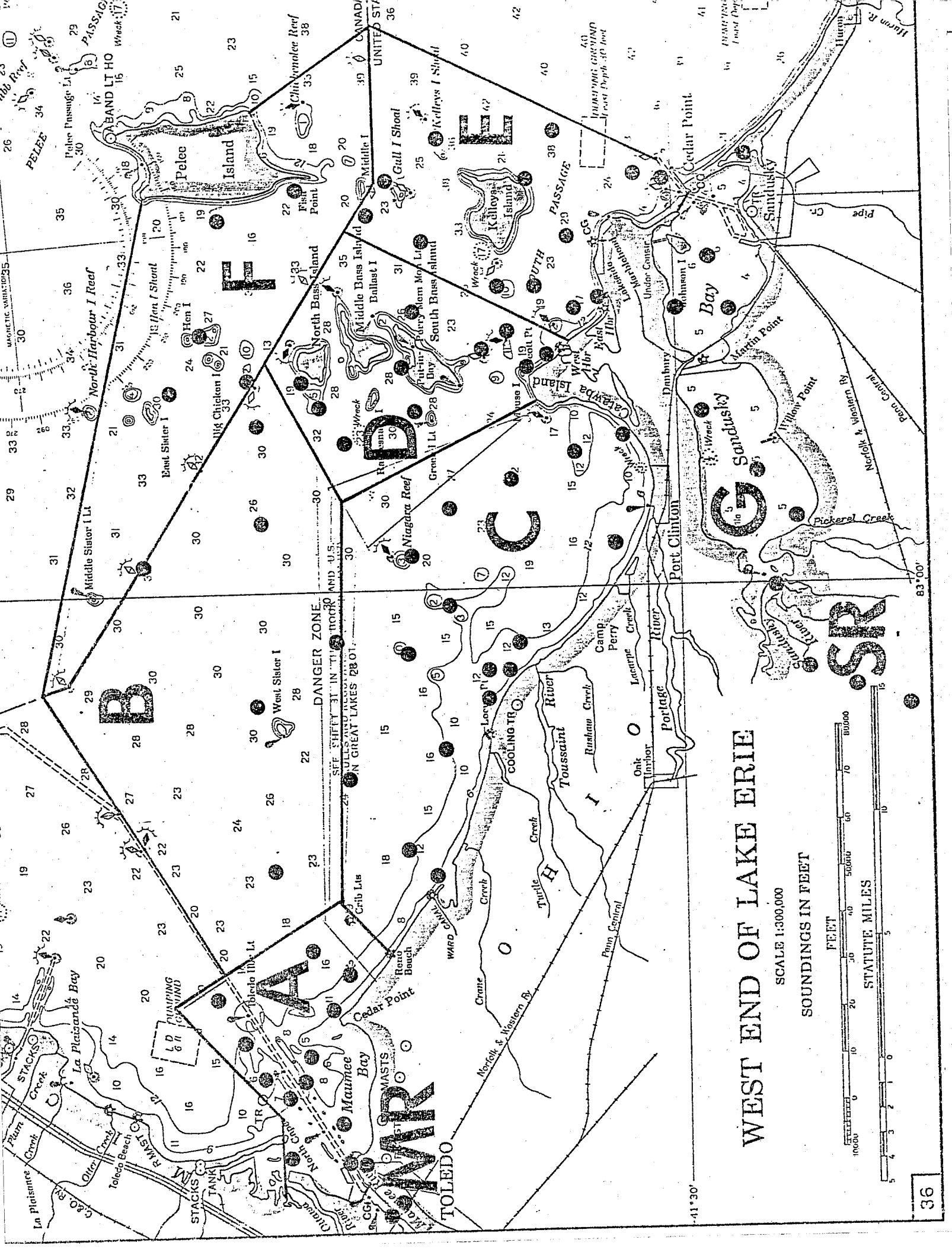
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THE OHIO STATE UNIVERSITY
CENTER FOR LAKE ERIE AREA RESEARCH
COLUMBUS, OHIO

March 1977



WEST END OF LAKE ERIE

SCALE 1:300,000

SOUNDINGS IN FEET

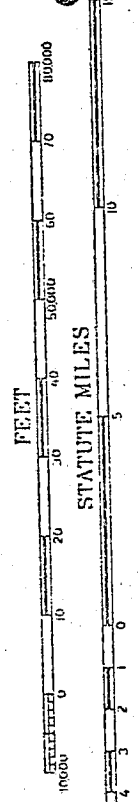


TABLE 1
1976 FISH LARVAE CRUISE SCHEDULE

Cruise	Date
1	April 12 - 16
2	April 21 - 23 Partial
3	April 28 - May 1
4	May 8 - May 11
5	May 20 - May 23
6	May 30 Partial
7	June 7 - 9
8	June 19 - 25
9	June 30 - July 7
10	July 11 - 16
11	July 21 - 28
12	August 2 - 5
13	August 16 Partial
14	August 25 - Sept. 3

TABLE 2

COLLECTION DATES FOR WESTERN LAKE ERIE
FISH LARVAE SURVEY - 1976

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

TABLE 2 CON'T.

COLLECTION DATES FOR WESTERN LAKE ERIE
FISH LARVAE SURVEY - 1976
(Continued)

Station No.	Field No.	Cruise No.													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
34	D 2/1	4-14		4-29	5-8	5-21	5-30	6-8	6-19	7-4	7-15	7-22	8-3	8-16	8-25
35	D 4/1	4-14		4-29	5-8	5-21	5-30	6-8	6-19	7-4	7-15	7-22	8-3	8-16	8-25
36	D 5/1	4-12	4-23	4-30	5-8	5-21	5-30	6-8	6-19	7-4	7-15	7-21	8-3	8-16	8-25
37	D 1/2	4-15		4-28	5-8	5-20	5-30	6-9	6-23	7-2	7-15	7-23	8-2	8-16	8-26
38	D 2/2	4-15		4-28	5-8	5-20	5-30	6-9	6-23	7-2	7-15	7-23	8-2	8-16	8-26
39	D 3/2	4-15	4-23	4-28	5-8	5-20	5-30	6-9	6-23	7-2	7-15	7-21	8-2	8-16	8-25
40	D 1/1	4-14	4-23	4-30	5-8	5-21	5-30	6-8	6-19	7-4	7-14	7-21	8-3	8-16	8-26
41	D 3/1	4-14	4-23	4-28	5-8	5-21	5-30	6-8	6-19	6-30	7-15	7-21	8-2	8-16	8-26
42	D 5/2	4-14	4-23	4-28	5-8	5-20	5-30	6-9	6-19	7-2	7-11	7-21	8-2	8-16	8-26
43	D 6/2	4-14	4-23	4-28	5-8	5-21	5-30	6-8	6-21	7-5	7-11	7-21	8-2	8-16	8-27
62	D 4/2	4-15		4-28	5-8	5-20	5-30	6-9	6-23	7-2	7-14	7-21	8-2	8-16	8-26
44	E 1/1	4-15		4-28	5-8	5-20	5-30	6-9	6-23	7-2	7-11	7-23	8-2	8-16	8-26
45	E 3/1	4-15		4-28	5-8	5-20	5-30	6-9	6-23	7-2	7-11	7-23	8-2	8-16	8-26
46	E 3/2	4-15		4-28	5-8	5-23	5-30	6-9	6-23	7-2	7-14	7-23	8-2	8-16	8-27
47	E 6/1	4-14		4-28	5-8	5-21	5-30	6-9	6-23	7-5	7-11	7-24	8-2	8-16	8-27
48	E 5/1	4-14		4-28	5-8	5-21	5-30	6-8	6-25	7-5	7-11	7-24	8-2	8-16	8-27
49	E 2/1	4-14		4-28	5-8	5-21	5-30	6-9	6-23	7-2	7-11	7-24	8-2	8-16	8-26
50	E 5/2	4-15		4-28	5-8	5-20	5-30	6-9	6-23	7-2	7-14	7-23	8-2	8-16	8-26
51	E 2/2	4-15		4-28	5-8	5-20	5-30	6-9	6-23	7-2	7-11	7-24	8-2	8-16	8-26
52	E 1/2	4-14		4-28	5-8	5-21	5-30	6-9	6-23	7-2	7-14	7-24	8-2	8-16	8-26
54	E 4/2	4-15	5-11	5-23	5-8	5-23	5-30	6-8	6-23	7-2	7-14	7-24	8-3	8-16	8-28
55	E 6/2	4-15		4-28	5-8	5-20	5-30	6-9	6-23	7-2	7-11	7-24	8-2	8-16	8-26
63	E 4/1	4-15		4-29	5-8	5-20	5-30	6-9	6-23	7-2	7-14	7-23	8-2	8-16	8-26
57	F 6/1	4-14		4-29	5-9	5-21	5-30	6-8	6-21	7-4	7-15	7-22	8-3	8-16	8-25
58	F 2/1				5-9	5-21	5-30	6-8	6-21	7-4	7-15	7-22	8-3	8-16	8-25
59	F 1/1	4-14		4-29	5-9	5-21	5-30	6-8	6-21	7-4	7-15	7-22	8-3	8-16	8-25

TABLE 2 CON'T.

COLLECTION DATES FOR WESTERN LAKE ERIE
 FISH LARVAE SURVEY - 1976
 (Continued)

Station No.	Field No.	Cruise No.													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
60	F 3/1	4-14			5-9	5-20	5-30	6-8	6-25	7-5	7-11	7-24	8-2		8-27
61	F 4/1	4-14			5-9	5-20	5-30	6-8	6-25	7-5	7-11	7-24	8-2		8-27
66	G 1/1			5-1		5-23		6-8	6-23	7-2	7-14	7-24	8-3		8-28
67	G 1/2	4-16		5-1		5-23		6-8	6-23	7-2	7-14	7-24	8-3		8-28
69	G 1/3	4-16		5-1	5-11	5-23		6-8	6-23	7-2	7-14	7-24	8-3		8-28
70	G 1/4	4-16		5-1	5-11	5-23		6-8	6-23	7-2	7-14	7-24	8-3		8-28
71	G 1/5	4-16		5-1	5-11	5-23		6-8	6-23	7-2	7-14	7-24	8-3		8-28
68	G 1/6			5-1		5-23		6-8	6-23	7-2	7-14	7-24	8-3		8-28

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
	13	A 3/2	N41°43.4'	W83°17.4'	3
	B	9	B 4/1	N41°47.5'	W83°18.1'
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
56		B 5/2	N41°49.2'	W82°59.0'	5
C	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
G	66	G 1/1	N41°26.1'	W82°56.6'	1
	67	G 1/2	N41°27.8'	W82°54.0'	1
	68	G 1/6	N41°29.1'	W82°52.4'	1
	69	G 1/3	N41°27.4'	W82°46.1'	1
	70	G 1/4	N41°30.0'	W82°46.5'	1
	71	G 1/5	N41°29.6'	W82°44.8'	1

TABLE 3 CON'T.

WESTERN LAKE ERIE FISH LARVAE SURVEY
COLLECTION STATIONS CONTINUED

Sector	Station No.	Field Notation	Latitude	Longitude	Depth Zone
Maumee River	79	MR475	N41°32.5'	W83°41.9'	R
	78	Perrysburg bridge	N41°33.5'	W83°38.9'	R
	1	R-1	N41°37.2'	W83°33.8'	R
	1A	R-1A	N41°37.4'	W83°33.6'	R
	1B	R-1B	N41°37.4'	W83°33.9'	R
	2	R-2	N41°39.2'	W83°31.3'	R
	2A	R-2A	N41°39.2'	W83°31.1'	R
	3	R-3	N41°41.7'	W83°26.4'	R
	4	R-4	N41°42.3'	W83°26.7'	R
	Sandusky River	74	R-74	N41°20.5'	W83°06.7'
75		R-75	N41°23.7'	W83°06.4'	R
76		R-76	N41°25.4'	W83°04.0'	R
77		R-77	N41°26.8'	W83°00.2'	R
					R

TABLE 4

WESTERN LAKE ERIE FISH LARVAE SURVEY
AREA AND VOLUME CALCULATIONS

Sector	Depth Zone	Depth Range (m)	Area (Km ²)	Volume (m ³)
G	1	0 - 2	<u>131.6</u>	<u>1.61 x 10⁸</u>
MR	R	0 - 10 Total	<u>7.84</u>	<u>4.21 x 10⁷</u>
SR	R	0 - 7 Total	<u>2.06</u>	<u>6.52 x 10⁶</u>

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

TABLE 5
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 1

Species		4-7	4-8	4-13	4-15 day night	4-21	4-23 day night
Carp	S ² B						
Yellow perch	S B						
White bass	S B						
White sucker	S B						0 6 0 1
Gizzard shad	S B						0 0 5 0
Freshwater drum	S B						
Mooneye	S B						
Emerald shiner	S B						
Log perch	S B						
Alewife	S B						
Walleye	S B				0 0 4 0	0 1	1 4 4 0
Smelt	S B						
Spottail shiner	S B						
Sunfish	S B						
Eggs	S B						
Channel catfish	S B						
Tadpole madtom	S B						

¹Number of larvae/100 m³

² S - Surface sample
 B - Bottom sample

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 1 (CONT'D.)

Species		4-27	4-29 night	5-4	5-7	5-10	5-12
Carp	S	1	0	0	0		
	B	3	1	1	1		
Yellow perch	S						
	B						
White bass	S						
	B						
White sucker	S		1	0			
	B		3	1			
Gizzard shad	S						
	B						
Freshwater drum	S						
	B						
Mooneye	S						
	B						
Emerald shiner	S						
	B						
Log perch	S						
	B						
Alewife	S						
	B						
Walleye	S				0		
	B				1		
Smelt	S						
	B						
Spottail shiner	S						
	B						
Eggs	S						
	B						
Crappie	S						
	B						
Channel catfish	S						
	B						
Tadpole madtom	S						
	B						

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 1 (CONT'D.)

Species		5-14	5-18	5-20	5-25	5-27		6-1
						day	night	
Carp	S	0	1	2		0	2	0
	B	1	6	1		2	0	1
Yellow perch	S							
	B							
White bass	S		14	10	0	0	5	17
	B		15	7	2	5	7	6
White sucker	S					0	1	
	B					0	0	
Gizzard shad	S		141	123	2	47	10	187
	B		120	30	10	38	33	54
Freshwater drum	S				0			
	B				5			
Mooneye	S							
	B							
Emerald shiner	S							
	B							
Log perch	S	1		1				
	B	0		0				
Alewife	S							
	B							
Walleye	S	0						
	B	1						
Smelt	S							
	B							
Spottail shiner	S							
	B							
Eggs	S	2	4	0	0	26	340	70
	B	4	4	1	29	78	14	53
Crappie	S					0		
	B					2		
Shiner	S					0		
	B					1		
Sucker	S			1				
	B			0				

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION E (CONT'D.)

Species		6-3	6-8				
Carp	S		0				
	B		1				
Yellow perch	S						
	B						
White bass	S	64	0				
	B	43	4				
White sucker	S						
	B						
Gizzard shad	S	1213	702				
	B	117	83				
Freshwater drum	S		0				
	B		2				
Mooneye	S						
	B						
Emerald shiner	S						
	B						
Log perch	S						
	B						
Alewife	S						
	B						
Walleye	S						
	B						
Smelt	S						
	B						
Spottail shiner	S						
	B						
Eggs	S	170	11				
	B	138	1				
Crappie	S						
	B						
Channel catfish	S						
	B						
Tadpole madtom	S						
	B						

¹Number of larvae/100 m³

TABLE 5. (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 1A

Species		4-27	5-20	5-25	5-27	6-1	6-3
Carp	S B		5 1				
Yellow perch	S B						
White bass	S B		0 9	1 5	9 1	83 81	32 16
White sucker	S B	1 1	2 0				
Gizzard shad	S B		2 12	6 43	49 97	174 449	1543 2553
Freshwater drum	S B						
Mooneye	S B						
Emerald shiner	S B						
Log perch	S B		1 0		0 1		
Alewife	S B						
Walleye	S B						
Smelt	S B						
Spottail shiner	S B						
Sunfish	S B						
Crappie	S B						
Channel catfish	S B						
Eggs	S B		2 4	0 3		6 0	43 160

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
STATION 1A (CON'T.)

Species		6-8				
Carp	S					
	B					
Yellow perch	S					
	B					
White bass	S	0				
	B	16				
White sucker	S					
	B					
Gizzard shad	S	2426				
	B	1963				
Freshwater drum	S					
	B					
Mooneye	S					
	B					
Emerald shiner	S					
	B					
Log perch	S					
	B					
Alewife	S					
	B					
Walleye	S					
	B					
Smelt	S					
	B					
Spottail shiner	S					
	B					
Sunfish	S					
	B					
Crappie	S					
	B					
Channel catfish	S					
	B					
Eggs	S	43				
	B	32				

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 1BA

Species		5-20	5-25	5-27	6-1	6-3	6-8
Carp	S	4					0
	B	32					1
Yellow perch	S						
	B						
White bass	S	19	2	14	32	0	11
	B	32	20	30	43	10	499
White sucker	S	1					
	B	0					
Gizzard shad	S	28	31	379	404	85	681
	B	47	52	359	809	124	132
Freshwater drum	S		0				
	B		1				
Mooneye	S						
	B						
Emerald shiner	S						
	B						
Log perch	S	1	1	10			0
	B	1	0	5			1
Alewife	S						
	B						
Walleye	S						
	B						
Smelt	S						
	B						
Spottail shiner	S						
	B						
Sunfish	S						
	B						
Crappie	S						
	B						
Channel catfish	S						
	B						
Eggs	S	1	6		21	4	11
	B	1	1		43	9	0

¹Number of Larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 2.

Species		4-7	4-8	4-13	4-15 day night	4-21	4-23 day night	
Carp	S							
	B							
Yellow perch	S							
	B							
White bass	S							
	B							
White sucker	S							
	B						0	1
Gizzard shad	S						0	0
	B							
Freshwater drum	S							
	B							
Mooneye	S							
	B							
Emerald shiner	S							
	B						0	1
Log perch	S						0	1
	B							
Alewife	S							
	B							
Walleye	S			1	0	3	1	0
	B			0	0	0	0	1
Smelt	S							
	B							
Spottail shiner	S							
	B							
Sunfish	S							
	B							
Crappie	S							
	B							
Channel catfish	S							
	B							
Eggs	S							
	B							

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 2 (CONT'D.)

Species		4-27	4-29 night	5-4	5-7	5-10	5-12
Carp	S	1	2				
	B	0	0				
Yellow perch	S						
	B						
White bass	S	1					
	B	0					
White sucker	S	3	6	1	1		
	B	2	1	0	0		
Gizzard shad	S	1					
	B	0					
Freshwater drum	S						
	B						
Mooneye	S						
	B						
Emerald shiner	S						
	B						
Log perch	S		1				
	B		0				
Alewife	S						
	B						
Walleye	S					0	
	B					2	
Smelt	S						
	B						
Spottail shiner	S						
	B						
Sunfish	S						
	B						
Crappie	S						
	B						
Channel catfish	S						
	B						
Eggs	S						
	B						

¹Number of larvae/100 m³

TABLE 5. (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 2. (CONT'D.)

Species		5-14	5-18	5-20	5-25	5-27		6-1
						day	night	
Carp	S			0	0	0	5	0
	B			28	21	5	2	2
Yellow perch	S							
	B							
White bass	S		1	4	11	5	5	404
	B		14	10	21	13	37	54
White sucker	S							
	B							
Gizzard shad	S		1	539	213	449	32	681
	B		9	29	106	101	88	49
Freshwater drum	S							0
	B							6
Mooneye	S							
	B							
Emerald shiner	S							
	B							
Log perch	S		2					
	B		0					
Alewife	S							
	B							
Walleye	S	0		1				
	B	1		0				
Smelt	S							
	B							
Spottail shiner	S							
	B							
Sunfish	S							
	B							
Crappie	S							
	B							
Channel catfish	S							
	B							
Eggs	S		19		10		87	
	B		13		0		23	

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 42 (CONT'D.)

Species		6-3	6-8				
Carp	S						
	B						
Yellow perch	S						
	B						
White bass	S	149	0				
	B	53	43				
White sucker	S						
	B						
Gizzard shad	S	7021	2361				
	B	511	43				
Freshwater drum	S	0					
	B	11					
Mooneye	S						
	B						
Emerald shiner	S						
	B						
Log perch	S						
	B						
Alewife	S						
	B						
Walleye	S						
	B						
Smelt	S						
	B						
Spottail shiner	S						
	B						
Sunfish	S						
	B						
Crappie	S						
	B						
Channel catfish	S						
	B						
Eggs	S	0	32				
	B	160	53				

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 2A

Species		4-27	4-29/30 ²	5-4	5-7	5-10	5-12
Carp	S B				1		
Yellow perch	S B						
White bass	S B					1 1	
White sucker	S B	6 0	12 4	1			
Gizzard shad	S B	18 38		1			
Freshwater drum	S B						
Sauger	S B						
Black Crappie	S B						
Log perch	S B	3				1	
Troutperch	S B						
Walleye	S B						
Smelt	S B						
Spottail shiner	S B						
Common Shiner	S B						
Sucker	S B						
Shiner	S B						
eggs	S B						

¹Number of larvae/100 m³

²Night Study

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 2A (Con't.):

Species		5-14	5-18	5-20	5-25	5-27	5-27/28 ²
Carp	S B		2				3 7
Yellow perch	S B						
White bass	S B		5 4	128	10 32	2 11	1 3
White sucker	S B						
Gizzard shad	S B		20 13	2043 1681	53 266	172 468	17 41
Freshwater drum	S B						
Sauger	S B						
Black Crappie	S B						
Log perch	S B			11			
Troutperch	S B						
Walleye	S B						
Smelt	S B						
Spottail shiner	S B						
Common Shiner	S B						
Sucker	S B						
Shiner	S B						
eggs	S B		5 6		1		122 100

¹Number of larvae/100 m³

²Night study

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 2A (Con't.):

Species		6-1	6-3	6-8			
Carp	S	2					
	B	0					
Yellow perch	S						
	B						
White bass	S	23	64				
	B	191	638				
White sucker	S						
	B						
Gizzard shad	S	291	1670	1676			
	B	143	2745	223			
Freshwater drum	S	2					
	B	0					
Sauger	S						
	B						
Black Crappie	S						
	B						
Log perch	S						
	B						
Troutperch	S						
	B						
Walleye	S						
	B						
Smelt	S						
	B						
Spottail shiner	S						
	B						
Common Shiner	S						
	B						
Sucker	S						
	B						
Shiner	S						
	B						
eggs	S	298	245	80			
	B	470	415	53			

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 3

Species		4-7	4-8	4-13	4-15	4-15/16 ²	4-21
Carp	S B						
Yellow perch	S B						
White bass	S B						
White sucker	S B						
Gizzard shad	S B						
Freshwater drum	S B						
Sauger	S B						
Black Crappie	S B						
Log perch	S B						
Troutperch	S B						
Walleye	S B				1 0		
Smelt	S B						
Spottail shiner	S B						
Common Shiner	S B						
Sucker	S B						
Shiner	S B						
eggs	S B						

¹Number of larvae/100 m³

² Night Study

TABLE 51 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 3 (Con't.)

Species		4-23	4-22/23 ²	4-27	4-29/30 ²	5-4	5-7
Carp	S			0			
	B			1			
Yellow perch	S	0	2		0		5
	B	6	6		3		2
White bass	S						
	B						
White sucker	S				3		
	B				0		
Gizzard shad	S	5		0			
	B	0		1			
Freshwater drum	S						
	B						
Sauger	S						
	B						
Black Crappie	S						
	B						
Log perch	S					1	
	B					0	
Troutperch	S						
	B						
Walleye	S		1	0			
	B		1	2			
Smelt	S						1
	B						1
Spottail shiner	S						
	B						
Common Shiner	S						
	B						
Sucker	S						
	B						
Shiner	S						
	B						
eggs	S					1	
	B					0	

¹Number of larvae/100 m³

²Night Study

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 4 (CONT'D.)

Species		4-27	4-29 night	5-4	5-7	5-10	5-12
Carp	S B						
Yellow perch	S B		0 13	0 7	0 1		
White bass	S B	1 0				3 0	
White sucker	S B						
Gizzard shad	S B	14 3				0 1	
Freshwater drum	S B						
Mooneye	S B						
Emerald shiner	S B						
Log perch	S B			1 0		1 0	
Alewife	S B						
Walleye	S B	0 6	0 1				
Smelt	S B						
Spottail shiner	S B						
Sunfish	S B						
Crappie	S B						
Channel catfish	S B						
Eggs	S B						

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 3 (Con't.)

Species		5-10	5-12	5-14	5-18	5-20	5-20/21 ²
Carp	S B				0 2	0 1	
Yellow perch	S B						
White bass	S B					0 1	3 1
White sucker	S B						
Gizzard shad	S B					5 5	10 13
Freshwater drum	S B						
Sauger	S B						
Black Crappie	S B						
Log perch	S B						
Troutperch	S B						1 0
Walleye	S B				0 1		
Smelt	S B						
Spottail shiner	S B						
Common Shiner	S B						
Sucker	S B						
Shiner	S B						
eggs	S B					0 1	1 3

¹Number of larvae/100 m³

²Night study

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 3 (Con't.)

Species		5-25	5-27	5-27/28 ²	6-1	6-3	6-8
Carp	S			5			0
	B			0	1		3
Yellow perch	S		1	3			
	B		0	0			
White bass	S	53	4	112	3	48	0
	B	15	95	48	12	0	27
White sucker	S						
	B						
Gizzard shad	S	64	36	150	35	271	436
	B	13	4	72	3	21	48
Freshwater drum	S			0	4	0	11
	B			1	1	53	57
Sauger	S						
	B						
Black Crappie	S						
	B						
Log perch	S						
	B						
Troutperch	S						
	B						
Walleye	S						
	B						
Smelt	S	11		1			0
	B	0		0			1
Spottail shiner	S			2			
	B			0			
Common Shiner	S						
	B						
Sucker	S						
	B						
Shiner	S						
	B						
eggs	S	64		21	523	1213	660
	B	61	4	35	630	638	461

¹Number of larvae/100 m³

²Night study

TABLE 5L (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 44

Species		4-7	4-8	4-13	4-15 day night	4-21	4-23 day night
Carp	S B						
Yellow perch	S B						
White bass	S B						
White sucker	S B						
Gizzard shad	S B						1 0 0 0
Freshwater drum	S B						
Mooneye	S B						
Emerald shiner	S B						
Log perch	S B						
Alewife	S B						
Walleye	S B					0 1	
Smelt	S B						
Spottail shiner	S B						
Sunfish	S B						
Crappie	S B						
Channel catfish	S B						
Eggs	S B						

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 44 (CON'T.)

Species		5-14	5-18	5-20		5-25	5-27		6-1
				day	night		day	night	
Carp	S	0	0	0	1	3		1	
	B	1	1	3	1	0		1	
Yellow perch	S			1					
	B			1					
White bass	S	0		3	1	26	9	6	64
	B	1		5	0	2	14	10	74
White sucker	S								
	B								
Gizzard shad	S		1	4	4	13	27	16	1298
	B		0	4	0	1	11	10	53
Freshwater drum	S								0
	B								11
Mooneye	S								
	B								
Emerald shiner	S								
	B								
Log perch	S								
	B								
Alewife	S								
	B								
Walleye	S				1				
	B				0				
Smelt	S				3		1	0	
	B				0		0	1	
Spottail shiner	S								
	B								
Sunfish	S								
	B								
Crappie	S								
	B								
Channel catfish	S								
	B								
Eggs	S		1	5	0	1	38	57	830
	B		1	2	3	1	10	86	436

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 44 (CON'T.)

Species		6-3	6-8				
Carp	S	0	0				
	B	21	9				
Yellow perch	S		0				
	B		2				
White bass	S	32	0				
	B	0	15				
White sucker	S						
	B						
Gizzard shad	S	367	2170				
	B	32	30				
Freshwater drum	S	0	21				
	B	32	23				
Mooneye	S						
	B						
Emerald shiner	S						
	B						
Log perch	S						
	B						
Alewife	S						
	B						
Walleye	S						
	B						
Smelt	S						
	B						
Spottail shiner	S						
	B						
Sunfish	S						
	B						
Crappie	S						
	B						
Channel catfish	S						
	B						
Eggs	S	1628	1319				
	B	1468	323				

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
STATION 78

Species		4-7	4-8	4-23	5-25	5-27		6-1
						day	night	
Carp	1			1	0	3	582	1
	2			0	1	0	259	2
Yellow perch	1							
	2							
White bass	1				4	2	3	1
	2				1	1	0	0
White sucker	1			2		1	3	
	2			0		4	5	
Gizzard shad	1				10	11	10	13
	2				0	5	2	1
Freshwater drum	1							
	2							
Mooneye	1							
	2							
Emerald shiner	1							
	2							
Log perch	1							
	2							
Alewife	1							
	2							
Walleye	1	4	2					
	2	2	1					
Smelt	1							
	2							
Spottail shiner	1							
	2							
Sunfish	1							
	2							
Eggs	1	0					2	
	2	3					13	
Common Shiner	1					0	1	
	2					0	0	
Sucker	1				0	0	0	
	2				3	0	1	

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 78 (CON'T.)

Species		6-3	6-8				
Carp	1 2	10 11	3 3				
Yellow perch	1 2						
White bass	1 2	1 5					
White sucker	1 2		2 4				
Gizzard shad	1 2	1 1	2 0				
Freshwater drum	1 2						
Mooneye	1 2						
Emerald shiner	1 2						
Log perch	1 2						
Alewife	1 2						
Walleye	1 2						
Smelt	1 2						
Spottail shiner	1 2						
Sunfish	1 2						
Eggs	1 2	6 61					
Channel catfish	1 2						
Tadpole madtom	1 2						

¹Number of larvae/100 m³

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
STATION 779

Species		4-8	4-13	4-15		4-21	4-23 Night	4-27
				Day	Night			
Carp	1 2					1 0	37 15	12 1
Yellow perch	1 2							
White bass	1 2							
White sucker	1 2					1		
Gizzard shad	1 2							
Freshwater drum	1 2							
Mooneye	1 2							
Emerald shiner	1 2							
Log perch	1 2							
Alewife	1 2							
Walleye	1 2	3 1	5 11	3 5	7 4	0 1		
Smelt	1 2							
Spottail shiner	1 2							
Sunfish	1 2							
Crappie	1 2							
Channel catfish	1 2							
Eggs	1 2	57 20	0 1	1 0		60 20	11 16	217 191
Sauger	1 2	1 0						

¹ Number of larvae/100 m³
² 1 - Replicate sample no. 1
 2 - Replicate sample no. 2

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
 STATION 79 (CON'T.)

Species		4-29 night	5-4		5-10	5-12	5-14
Carp	1 2	20 18					
Yellow perch	1 2						
White bass	1 2						
White sucker	1 2	0 1					0 5
Gizzard shad	1 2						
Freshwater drum	1 2						
Mooneye	1 2						
Emerald shiner	1 2						
Log perch	1 2						
Alewife	1 2						
Walleye	1 2						
Smelt	1 2						
Spottail shiner	1 2						
Sunfish	1 2						
Crappie	1 2						
Channel catfish	1 2						
Eggs	1 2	0 1	638 691		16 6	702 745	10851 8590
Sauger	1 2						

¹Number of larvae/100 m³
²1 - Replicate sample no. 1
 2 - Replicate sample no. 2

TABLE 5 (CON'T.)
 DENSITY OF FISH LARVAE
 IN MAUMEE RIVER AND BAY IN 1976¹
STATION 79 (CON'T.)

Species		5-18	5-20				
Carp	1 ² 2	4 99	1 0				
Yellow perch	1 2						
White bass	1 2						
White sucker	1 2	0 7					
Gizzard shad	1 2						
Freshwater drum	1 2						
Mooneye	1 2						
Emerald shiner	1 2						
Log perch	1 2						
Alewife	1 2						
Walleye	1 2						
Smelt	1 2						
Spottail shiner	1 2						
Sunfish	1 2						
Crappie	1 2						
Channel catfish	1 2						
Eggs	1 2	306 1170	20 21				
Sauger	1 2						

¹ 1 - Replicate sample no. 1
 Number of larvae/100 m³.
² 2 - Replicate sample no. 2
 2 - Replicate sample no. 2

TABLE 5 CON'T.

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

Cruise No.: June 2, 1976
 Lake Sector: Sandusky River

Station		74	75*	76	77													
Species																		
Gizzard shad	S		11	367	128													
	B		C	96	85													
Rainbow smelt	S																	
	B																	
Emerald shiner	S																	
	B																	
Spottail shiner	S																	
	B																	
Carp	S	18	21															
	B	7	0															
Freshwater drum	S																	
	B																	
Yellow perch	S																	
	B																	
White bass	S			16														
	B			0														
Walleye	S																	
	B																	
White sucker	S																	
	B																	
Sucker	S																	
	B																	
Sunfish	S																	
	B																	
Black crappie	S																	
	B																	
Logperch darter	S		11	16														
	B		0	0														
Troutperch	S			16														
	B			0														
Unknown Catfishidae	S																	
	B																	
Darteridae sp.	S																	
	B																	
Bluntnose minnow	S	1																
	B	0																
Johnny darter	S																	
	B																	
eggs	S	267	734	590	64													
	B	224	C	713	43													

* bottom sample lost

TABLE 5 CON'T.

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

Cruise No.: 3 (1976)
 Lake Sector: C

Station		18	26	27	31	21	30	19	24	32	20	29	25	28	
Species															
	Gizzard shad	S	2												
	B														
Rainbow smelt	S														
	B														
Emerald shiner	S														
	B														
Spottail shiner	S														
	B														
Carp	S														
	B														
Freshwater drum	S														
	B														
Yellow perch	S	32	0	0	66	33	71	0	4	149	17	12		1	
	B		4	3		124	224	6	1	86	1				
White bass	S														
	B														
Walleye	S	5		68		2	2			12	1				
	B			14		34	34			2	0				
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 macton	S														
	B														
Unknown	S														
	B														
Whitefish	S									1					
	B									0					

TABLE 6

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector A Cruise 1, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad							
Rainbow smelt							
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 A Cruise 2, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad							
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye		9.5×10^6					3.1×10^7
White sucker		2.2×10^7					
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 3, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	3.6×10^6	9.3×10^5	1.3×10^6				5.8×10^6
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	6.9×10^6	4.9×10^6	3.9×10^6				1.6×10^7
White bass							
Walleye	2.2×10^5	1.9×10^6					2.1×10^6
White sucker	2.9×10^5		1.3×10^6				1.6×10^6
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector A Cruise 4, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt	7.2×10^5	9.3×10^5	2.1×10^6				3.8×10^6
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	1.3×10^6	9.3×10^5	2.6×10^6				4.8×10^6
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 A Cruise 5, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad		8.0×10^6					3.0×10^6
Rainbow smelt	9.3×10^5	1.9×10^6	1.0×10^7				1.3×10^7
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	7.9×10^5		4.3×10^5				1.2×10^6
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 A Cruise 7, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	2.7×10^7	1.3×10^7	7.7×10^6				4.8×10^7
Rainbow smelt							
Emerald shiner		2.3×10^5					2.3×10^5
Spottail shiner							
Carp							
Freshwater drum	5.0×10^5						5.0×10^5
Yellow perch		7.0×10^5					7.0×10^5
White bass	7.2×10^5						7.2×10^5
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie	1.4×10^5						1.4×10^5
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector A Cruise 8, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	3.6×10^7	4.3×10^7	2.6×10^6				8.1×10^7
Rainbow smelt							
Emerald shiner	1.4×10^5						1.4×10^5
Spottail shiner							
Carp		4.7×10^5					4.7×10^5
Freshwater drum							
Yellow perch							
White bass			4.3×10^5				4.3×10^5
Walleye							
White sucker							
Sunfish		2.3×10^5					2.3×10^5
Quillback carpsucker							
Crappie							
Alewife	2.2×10^5	2.1×10^6					2.3×10^6
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector A Cruise 9, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.2×10^6	4.7×10^5	2.6×10^6				4.2×10^6
Rainbow smelt		4.7×10^5					4.7×10^5
Emerald shiner	2.9×10^5	3.3×10^6	1.7×10^6				5.3×10^6
Spottail shiner							
Carp							
Freshwater drum	2.0×10^5	4.7×10^5					6.6×10^5
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 A, Cruise 10, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	4.7×10^6	2.6×10^6	9.4×10^6				1.7×10^7
Rainbow smelt							
Emerald shiner	2.0×10^5	1.9×10^6	5.2×10^7				5.4×10^7
Spottail shiner							
Carp		2.3×10^5					2.3×10^5
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter			8.6×10^5				8.6×10^5
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector A Cruise 11, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	4.8×10^6	2.8×10^6	4.7×10^6				1.2×10^7
Rainbow smelt							
Emerald shiner	3.4×10^6	6.7×10^6	1.2×10^8				1.4×10^8
Spottail shiner							
Carp		7.0×10^5					7.0×10^5
Freshwater drum			8.6×10^5				8.6×10^5
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 A Cruise 12, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	3.4×10^6	9.3×10^5					4.4×10^6
Rainbow smelt							
Emerald shiner	1.3×10^7	1.4×10^7	4.6×10^7				7.2×10^7
Spottail shiner							
Carp							
Freshwater drum	3.8×10^5						3.8×10^5
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 A Cruise 14, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad							
Rainbow smelt							
Emerald shiner	4.8 X 10 ⁵						4.8 X 10 ⁵
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 1, 1976

Depth Zones				4	5	6	TOTAL
Species							
Gizzard shad							
Rainbow smelt							
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, 1976

Depth Zones Species				4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
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 4, 1976

Depth Zones				4	5	6	TOTAL
Species							
Gizzard shad				2.3×10^7	2.4×10^8		2.6×10^7
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum				4.0×10^6	2.4×10^6	1.6×10^7	2.2×10^7
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 5, 1976

Depth Zones				4	5	6	TOTAL
Species							
Gizzard shad				2.7×10^7	3.9×10^8		4.2×10^8
Rainbow smelt							
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 6, 1976

Depth Zones											TOTAL	
Species										6		
Gizzard shad												
Rainbow smelt												
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												4.8 X 10 ⁷

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector B Cruise 7, 1976

Depth Zones				4	5	6	TOTAL
Species							
Gizzard shad				1.6×10^7	4.9×10^6		2.0×10^7
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum				3.9×10^6			3.9×10^6
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter				3.9×10^6	2.4×10^6		6.3×10^6
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector B Cruise 8, 1976

Depth Zones				4	5	6	TOTAL
Species							
Gizzard shad				1.2×10^7	1.3×10^8		1.4×10^8
Rainbow smelt							
Emerald shiner				2.3×10^7	5.8×10^7	1.1×10^7	9.2×10^7
Spottail shiner					4.9×10^6		4.9×10^6
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie				1.2×10^7			1.2×10^7
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CONT.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector B Cruise 9, 1976

Depth Zones Species	4	5	6	TOTAL
Gizzard shad		9.7×10^6	7.6×10^7	8.5×10^7
Rainbow smelt				1.8×10^8
Emerald shiner	7.8×10^6	7.5×10^7	1.1×10^8	3.9×10^6
Spottail shiner	3.9×10^6			2.4×10^6
Carp		2.4×10^6		1.6×10^7
Freshwater drum				
Yellow perch				
White bass	3.9×10^6			3.9×10^6
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 B Cruise 10, 1976

Depth Zones				4	5	6	TOTAL
Species							
Gizzard shad				5.1×10^7	1.7×10^7		6.8×10^7
Rainbow smelt				1.1×10^8	3.2×10^7	1.3×10^9	1.4×10^9
Emerald shiner					2.4×10^6		2.4×10^6
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife				3.9×10^6			3.9×10^6
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector B Cruise 11, 1976

Depth Zones				4	5	6	TOTAL
Species							
Gizzard shad				7.8×10^6			7.8×10^6
Rainbow smelt				1.3×10^8	3.0×10^8	2.1×10^7	4.5×10^8
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 12, 1976

Depth Zones			4	5	6	TOTAL
Species						
Gizzard shad						
Rainbow smelt			7.0×10^7	4.4×10^7	1.2×10^8	2.4×10^8
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 14, 1976

Depth Zones				4	5	6	TOTAL
Species							
Gizzard shad							
Rainbow smelt							
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 C Cruise 1, 1976

Depth Zones	1	2	3	4	5	TOTAL
Gizzard shad						
Rainbow smelt						
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 C Cruise 2, 1976

Depth Zones	1	2	3	4	5	TOTAL
Species						
Gizzard shad						
Rainbow smelt						
Emerald shiner						
Spottail shiner						
Carp						
Freshwater drum						
Yellow perch	5.4 X 10 ⁴					5.4 X 10 ⁴
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, 1976

Depth Zones	1	2	3	4	5	TOTAL
Species						1.1×10^5
Gizzard shad	1.1×10^5					
Rainbow smelt						
Emerald shiner						
Spottail shiner						
Carp						
Freshwater drum		2.6×10^8	2.6×10^8	5.7×10^7	4.7×10^8	5.7×10^8
Yellow perch	3.0×10^6					
White bass	4.0×10^6	3.1×10^7	1.5×10^7	1.9×10^6		5.1×10^7
Walleye						
White sucker						
Sunfish						
Quillback carpsucker						
Crappie						
Alewife						
Logperch darter						
Troutperch						
Sculpin			1.1×10^6			
Whitefish						
TOTAL						1.1×10^9

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 4, 1976

Depth Zones	1	2	3	4	5	TOTAL
Gizzard shad				3.8×10^6		3.8×10^6
Rainbow smelt	1.6×10^5	6.1×10^5	6.3×10^6	3.1×10^7		3.8×10^7
Emerald shiner						
Spottail shiner						
Carp						
Freshwater drum						
Yellow perch	7.9×10^5	1.2×10^6	1.1×10^6	7.6×10^6	1.2×10^6	1.2×10^7
White bass						
Walleye	5.4×10^4					5.4×10^4
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, 1976

Depth Zones Species	1	2	3	4	5	TOTAL
Gizzard shad	1.6×10^5	1.8×10^6				2.0×10^6
Rainbow smelt	1.6×10^6	3.7×10^6	2.7×10^7	5.7×10^7	8.2×10^7	1.7×10^8
Emerald shiner						
Spottail shiner						
Carp						
Freshwater drum						
Yellow perch	4.3×10^5	4.3×10^6	6.3×10^6	1.9×10^6	3.6×10^6	1.7×10^7
White bass						
Walleye						
White sucker						
Sunfish						
Quillback carpsucker	5.4×10^4					5.4×10^4
Crappie						
Alewife						
Logperch darter						
Troutperch						
Sculpin						
Whitefish						
TOTAL						

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 7, 1976

Depth Zones	1	2	3	4	5	TOTAL
Gizzard shad	3.5×10^5	3.7×10^6	2.2×10^7	1.3×10^7	8.3×10^6	4.8×10^7
Rainbow smelt						
Emerald shiner						
Spottail shiner	2.8×10^4			1.9×10^6	1.2×10^6	3.1×10^6
Carp						
Freshwater drum						
Yellow perch						
White bass						
Walleye						
White sucker						
Sunfish						
Quillback carpsucker						
Crappie			1.1×10^6			1.1×10^6
Alewife						
Logperch darter						
Troutperch						
Sculpin						
Whitefish						
TOTAL						

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 8, 1976

Depth Zones	1	2	3	4	5	TOTAL
Gizzard shad	1.1×10^7	1.7×10^8	3.3×10^7	2.7×10^7	5.7×10^7	3.0×10^8
Rainbow smelt	1.9×10^6	4.9×10^6	3.6×10^7	1.5×10^8	5.4×10^7	2.5×10^8
Emerald shiner				5.8×10^8		5.8×10^8
Spottail shiner	1.6×10^5	6.1×10^5				7.7×10^5
Carp		3.1×10^6	3.4×10^7	1.5×10^7		5.2×10^5
Freshwater drum						
Yellow perch	3.0×10^6	4.3×10^6				7.3×10^6
White bass						
Walleye						
White sucker						
Sunfish						
Quillback carpsucker						
Crappie			1.9×10^6			1.9×10^6
Alewife						
Logperch darter	6.5×10^4					6.5×10^4
Troutperch						
Sculpin						
Whitefish						
TOTAL						

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 9, 1976

Depth Zones	1	2	3	4	5	TOTAL
Gizzard shad	1.5×10^5	8.5×10^6	1.1×10^7	1.9×10^6	3.0×10^7	5.1×10^7
Rainbow smelt	2.2×10^7	3.7×10^6	9.5×10^8	2.9×10^8	1.7×10^9	3.0×10^9
Emerald shiner	1.1×10^5	6.1×10^5				7.2×10^5
Spottail shiner		3.7×10^6				2.2×10^7
Carp				1.2×10^7	7.1×10^6	
Freshwater drum						
Yellow perch	1.1×10^5		2.1×10^6			2.3×10^6
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 C Cruise 10, 1976

Depth Zones	1	2	3	4	5	TOTAL
Gizzard shad	1.3×10^6	3.2×10^7	2.7×10^7	8.4×10^7	2.3×10^7	1.7×10^8
Rainbow smelt						
Emerald shiner	6.6×10^6	1.2×10^6	1.3×10^9	2.0×10^8	4.3×10^8	1.9×10^9
Spottail shiner		1.2×10^6				
Carp					2.4×10^6	1.2×10^6
Freshwater drum	3.7×10^4					2.4×10^6
Yellow perch						
White bass	3.7×10^4					3.7×10^4
Walleye						
White sucker						
Sunfish						
Quillback carpsucker						
Crappie	3.7×10^4					3.7×10^4
Alewife						
Logperch darter						
Troutperch						
Sculpin						
Whitefish						
TOTAL						

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 11, 1976

Depth Zones Species	1	2	3	4	5	TOTAL
Gizzard shad	2.8×10^4	2.4×10^6			1.2×10^6	3.7×10^6
Rainbow smelt						
Emerald shiner	7.9×10^5	6.1×10^5	2.1×10^6	7.6×10^6	1.5×10^7	2.7×10^7
Spottail shiner						
Carp						
Freshwater drum						
Yellow perch						
White bass						
Walleye						
White sucker						
Sunfish						
Quillback carpsucker						
Crappie						
Alewife	5.4×10^4					5.4×10^4
Logperch darter						
Troutperch						
Sculpin						
Whitefish						
TOTAL						

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 12, 1976

Depth Zones	1	2	3	4	5	TOTAL
Species						
Gizzard shad	5.4×10^4	2.4×10^6	4.2×10^6			6.7×10^6
Rainbow smelt						
Emerald shiner	3.5×10^5		3.1×10^7	3.1×10^7	4.9×10^7	1.1×10^8
Spottail shiner						
Carp						
Freshwater drum						
Yellow perch						
White bass						
Walleye						
White sucker						
Sunfish						
Quillback carpsucker						
Crappie						
Alewife			1.1×10^6			1.1×10^6
Logperch darter						
Troutperch						
Sculpin						
Whitefish						
TOTAL						

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector C Cruise 14, 1976

Depth Zones Species	1	2	3	4	5	TOTAL
Gizzard shad						
Rainbow smelt						
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		1.8 X 10 ⁶				1.8 X 10 ⁶

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D. Cruise 1, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad							
Rainbow smelt							
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		6.0 X 10 ⁴		6.2 X 10 ⁵			6.8 X 10 ⁵

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 3, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	2.3×10^6	6.8×10^6	3.1×10^5	1.7×10^7	1.5×10^7	8.0×10^6	4.9×10^7
White bass	2.5×10^5	1.8×10^5					
Walleye				1.4×10^7	4.2×10^6	9.6×10^6	2.8×10^7
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch			1.5×10^5				
Sculpin							1.5×10^5
Whitefish	8.9×10^4						8.9×10^4
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 4, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	5.9×10^5	5.3×10^6	2.8×10^6	8.7×10^6	8.9×10^7	3.5×10^7	1.4×10^8
White bass							
Walleye	3.6×10^4	6.0×10^4		6.2×10^5		1.6×10^6	2.3×10^6
White sucker			1.5×10^5				1.5×10^5
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 5, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad	1.8×10^4						1.8×10^4
Rainbow smelt		6.0×10^4		2.5×10^6	2.5×10^7		2.7×10^7
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	1.8×10^5	1.8×10^5	6.1×10^5	1.4×10^7	1.0×10^7		2.6×10^7
White bass							
Walleye				6.2×10^5			
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							6.2×10^5

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 6, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	1.8 X 10 ⁴						5.7 X 10 ⁶
Rainbow smelt			4.6 X 10 ⁵	3.1 X 10 ⁶	2.1 X 10 ⁶		4.6 X 10 ⁵
Emerald shiner			4.6 X 10 ⁵				
Spottail shiner							
Carp							
Freshwater drum		6.0 X 10 ⁴				1.6 X 10 ⁶	6.2 X 10 ⁶
Yellow perch							
White bass							
Walleye							
White sucker	3.6 X 10 ⁴						3.6 X 10 ⁴
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 7, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad	3.6×10^5	6.6×10^5	1.5×10^5	4.3×10^6	1.2×10^7		1.8×10^7
Rainbow smelt							
Emerald shiner		6.0×10^4		6.2×10^5	4.2×10^6	8.0×10^6	1.3×10^7
Spottail shiner					4.2×10^6		4.3×10^6
Carp			1.5×10^5				
Freshwater drum		6.0×10^4					6.0×10^4
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 8, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	5.5×10^5	8.4×10^6	2.3×10^6	3.5×10^7	4.2×10^6	2.4×10^7	7.4×10^7
Rainbow smelt	3.4×10^6	1.1×10^7	9.2×10^5	1.9×10^7	3.9×10^7	5.2×10^7	1.3×10^8
Emerald shiner	1.6×10^5	2.4×10^5	1.4×10^6	6.2×10^5		1.6×10^6	4.0×10^6
Spottail shiner	3.6×10^4	3.0×10^5	6.1×10^5		8.3×10^6	1.0×10^6	1.1×10^7
Carp			6.1×10^5	1.2×10^6	4.2×10^6		6.0×10^6
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 9, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	1.7×10^7	1.2×10^7	1.2×10^7	2.4×10^7	4.4×10^7	5.9×10^7	1.7×10^8
Rainbow smelt							
Emerald shiner	1.6×10^7	1.7×10^6	1.3×10^7	7.0×10^7	1.3×10^8	7.7×10^7	3.1×10^8
Spottail shiner							
Carp	2.2×10^5	1.2×10^5			2.1×10^6		2.4×10^6
Freshwater drum	2.5×10^5	1.2×10^5	4.9×10^6	5.6×10^6	8.3×10^6	1.1×10^7	3.0×10^7
Yellow perch		1.2×10^5					1.2×10^5
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 10, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	2.5×10^5	3.6×10^5	4.6×10^5	9.9×10^6	2.1×10^6		1.3×10^7
Rainbow smelt	3.8×10^5	2.5×10^7	3.7×10^6	3.2×10^8	1.9×10^8	6.5×10^8	1.2×10^9
Emerald shiner	1.8×10^4						1.8×10^4
Spottail shiner		6.0×10^4					6.0×10^4
Carp			3.1×10^5				3.4×10^5
Freshwater drum	3.6×10^4						
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife	2.7×10^5						2.7×10^5
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 11, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species					6.2×10^6		6.2×10^6
Gizzard shad							
Rainbow smelt							
Emerald shiner	2.0×10^6		6.1×10^5	1.1×10^7	6.2×10^6	2.2×10^7	4.2×10^7
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie						1.6×10^6	1.6×10^6
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 12, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad			1.5×10^5				1.5×10^5
Rainbow smelt							
Emerald shiner	2.7×10^5	2.4×10^5	3.1×10^5	3.7×10^6	1.2×10^7	1.6×10^6	1.9×10^7
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife	1.8×10^4	6.0×10^4					7.8×10^4
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector D Cruise 18, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner	1.8×10^4					1.6×10^6	1.6×10^6
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 D Cruise 14, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad							
Rainbow smelt							
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			1.5 X 10 ⁵				1.5 X 10 ⁵

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 1, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad							
Rainbow smelt							
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	3.5 X 10 ⁴						8.5 X 10 ⁴

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector 5 Cruise 3, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch			5.5×10^6	6.9×10^7			2.4×10^7
White bass							
Walleye			8.8×10^5				8.8×10^5
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish			2.9×10^5				2.9×10^5
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 4, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	6.0×10^5	1.5×10^6	3.9×10^7	2.3×10^7	5.8×10^7	1.3×10^8	2.5×10^8
White bass							
Walleye	5.3×10^4		2.9×10^5				3.5×10^5
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 5, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt	4.9×10^5	2.2×10^6	2.1×10^6		3.6×10^8	3.1×10^8	6.7×10^8
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	3.5×10^4	1.0×10^6	3.5×10^6	3.3×10^6	3.6×10^6	3.8×10^6	1.5×10^7
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch				6.5×10^5			
Sculpin							
Whitefish							
TOTAL							6.5×10^5

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 6, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad		8.1×10^5		6.5×10^5	9.8×10^6	2.3×10^7	3.4×10^7
Rainbow smelt							
Emerald shiner							
Spottail shiner		2.3×10^5					2.3×10^5
Carp							
Freshwater drum		6.6×10^5			1.8×10^6		2.5×10^6
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, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	2.3×10^5		4.1×10^6	6.5×10^6	5.4×10^6		1.6×10^7
Rainbow smelt						1.1×10^7	1.1×10^7
Emerald shiner							2.7×10^7
Spottail shiner	3.5×10^4	2.9×10^5	2.9×10^5	3.3×10^6	4.5×10^6	1.9×10^7	5.5×10^7
Carp		1.3×10^7			4.5×10^6	3.8×10^7	6.5×10^5
Freshwater drum				6.5×10^5			
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 ~~E~~ Cruise 8, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	3.0×10^5	4.5×10^6	2.4×10^7	4.5×10^7	2.1×10^7	8.3×10^7	1.8×10^8
Rainbow smelt	2.9×10^6	2.5×10^7	3.0×10^7	4.1×10^7	8.3×10^7	8.7×10^8	1.1×10^9
Emerald shiner	1.1×10^5	7.4×10^4	2.9×10^5	6.5×10^5	8.9×10^5	3.8×10^6	4.9×10^6
Spottail shiner		6.6×10^5			2.7×10^6	3.8×10^6	1.6×10^6
Carp							7.1×10^6
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 4 Cruise 9, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	6.9×10^5	2.1×10^6	4.9×10^7	1.8×10^8	1.7×10^8	8.3×10^7	4.9×10^8
Rainbow smelt							
Emerald shiner	1.4×10^6	3.9×10^6	1.4×10^7	2.0×10^8	4.8×10^8	4.0×10^8	1.1×10^9
Spottail shiner			8.8×10^5	6.5×10^5			1.5×10^6
Carp		4.2×10^6	1.5×10^6			3.8×10^6	9.5×10^6
Freshwater drum		2.2×10^5	3.5×10^6	2.0×10^6	3.6×10^6		9.3×10^6
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie			2.9×10^5				2.9×10^5
Alewife				6.5×10^5			6.5×10^5
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 10, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.8×10^4		2.3×10^6	2.0×10^6	5.4×10^6	3.8×10^6	1.3×10^7
Rainbow smelt							
Emerald shiner	7.4×10^5	1.6×10^6	2.3×10^6	4.4×10^7	9.5×10^7	4.3×10^8	5.7×10^8
Spottail shiner		7.4×10^4					7.4×10^4
Carp							
Freshwater drum		7.4×10^4					7.4×10^4
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 11, 1976

Depth. Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	1.7×10^4						1.7×10^4
Rainbow smelt							
Emerald shiner	1.8×10^4	7.4×10^4		1.6×10^7	3.6×10^6	1.1×10^7	3.1×10^7
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 F Cruise 12, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner	1.8×10^4	2.9×10^5	8.8×10^5	2.0×10^6		3.8×10^6	6.9×10^6
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife	1.8×10^4	2.2×10^5	8.8×10^5				1.1×10^6
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector E Cruise 14, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad							
Rainbow smelt							
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 F Cruise 1, 1976

Depth Zones Species	1	3	4	6	TOTAL
Gizzard shad					
Rainbow smelt					
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 F Cruise 3, 1976

Depth Zones Species	1	3	4	6	TOTAL
Gizzard shad					
Rainbow smelt					
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 F Cruise 4, 1976

Depth Zones Species	1	3	4	6	TOTAL
Gizzard shad					
Rainbow smelt					
Emerald shiner					
Spottail shiner					
Carp					
Freshwater drum			4.3×10^7		4.3×10^7
Yellow perch					
White bass			1.0×10^6		1.0×10^6
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 F Cruise 5, 1976

Depth Zones Species	1	3	4	6	TOTAL
Gizzard shad	2.1×10^4				
Rainbow smelt		3.0×10^6	1.9×10^7	3.4×10^7	5.6×10^7
Emerald shiner					
Spottail shiner					
Carp					
Freshwater drum		1.5×10^6	1.7×10^6		3.3×10^6
Yellow perch					
White bass					
Walleye					
White sucker					
Sunfish					
Quillback carpsucker					
Crappie					
Alewife					
Logperch darter					
Troutperch		1.5×10^6			
Sculpin					
Whitefish					
TOTAL					1.5×10^6

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector F Cruise 6, 1976

Depth Zones Species	1	3	4	6	TOTAL
Gizzard shad	4.3×10^4				
Rainbow smelt		3.5×10^6	7.8×10^6	1.7×10^7	2.9×10^7
Emerald shiner					
Spottail shiner			8.7×10^5		8.7×10^5
Carp					
Freshwater drum					
Yellow perch	4.3×10^4				
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 7, 1976

Depth Zones Species	1	3	4	6	TOTAL
Gizzard shad	1.5×10^5		8.7×10^5	1.7×10^7	1.8×10^7
Rainbow smelt					
Emerald shiner					
Spottail shiner	2.1×10^4	2.5×10^6	1.7×10^6		4.3×10^6
Carp					
Freshwater drum					
Yellow perch					
White bass					
Walleye					
White sucker					
Sunfish					
Quillback carpsucker					
Crappie					
Alewife					
Logperch darter				8.6×10^6	8.6×10^6
Troutperch					
Sculpin					
Whitefish					
TOTAL					

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector F Cruise 8, 1976

Depth Zones Species	1	3	4	6	TOTAL
Gizzard shad	4.3×10^4	1.0×10^6	1.2×10^7		1.3×10^7
Rainbow smelt	2.1×10^4				2.1×10^4
Emerald shiner	3.6×10^5	1.3×10^8	1.7×10^8	6.8×10^7	3.6×10^8
Spottail shiner		5.1×10^5	5.2×10^6		5.7×10^6
Carp	9.0×10^5	5.1×10^5	8.7×10^5	4.3×10^7	4.5×10^7
Freshwater drum	6.4×10^4		3.5×10^6	8.6×10^6	1.2×10^7
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 9, 1976

Depth Zones Species	1	3	4	6	TOTAL
Gizzard shad	4.1×10^5	1.0×10^6	2.4×10^7	7.7×10^7	1.0×10^8
Rainbow smelt					
Emerald shiner	1.4×10^6	5.1×10^5	2.5×10^7	3.6×10^8	3.9×10^8
Spottail shiner					
Carp					
Freshwater drum		5.1×10^5	4.3×10^6		4.8×10^6
Yellow perch					
White bass					
Walleye					
White sucker					
Sunfish					
Quillback carpsucker					
Crappie					
Alewife					
Logperch darter					
Troutperch					
Sculpin					
Whitefish					
TOTAL				8.6×10^6	8.6×10^6

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector F Cruise 10, 1976

Depth Zones Species	1	3	4	6	TOTAL
Gizzard shad					
Rainbow smelt					
Emerald shiner	2.0×10^6	2.4×10^7	3.9×10^8	8.4×10^8	1.8×10^9
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 11, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							8.7×10^5
Rainbow smelt							
Emerald shiner	2.1×10^4			8.7×10^5		8.6×10^6	9.4×10^6
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 ~~E~~ Cruise 12, 1976

Depth Zones Species	1	3	4	6	TOTAL
Gizzard shad					
Rainbow smelt					
Emerald shiner	8.6×10^4		8.7×10^5	6.0×10^8	6.0×10^8
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 14th 1976

Depth Zones Species	1	3	4	6	TOTAL
Gizzard shad					
Rainbow smelt					
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 G Cruise 1, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad							
Rainbow smelt							
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 G Cruise 3, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad	6.8×10^5						6.8×10^5
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	2.7×10^7						2.7×10^7
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 C Cruise 4, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	2.2×10^7						2.2×10^7
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 G Cruise 5, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner							
Spottail shiner	2.7×10^5						2.7×10^5
Carp							
Freshwater drum							
Yellow perch	2.3×10^7						2.3×10^7
White bass							
Walleye	1.5×10^5						1.5×10^5
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 G Cruise 7, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.9×10^8						1.9×10^8
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum	8.6×10^6						8.6×10^6
Yellow perch							
White bass	4.0×10^5						4.0×10^5
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie	1.5×10^5						1.5×10^5
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CONT.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector G. Cruise 8, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.4×10^9						1.4×10^9
Rainbow smelt							
Emerald shiner	1.5×10^5						1.5×10^5
Spottail shiner							
Carp							
Freshwater drum	1.3×10^8						1.3×10^8
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 G Cruise 9, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad	2.3×10^8						2.3×10^8
Rainbow smelt							
Emerald shiner	2.2×10^6						2.2×10^6
Spottail shiner							
Carp	2.1×10^6						2.1×10^6
Freshwater drum	6.7×10^8						6.7×10^8
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie	2.7×10^5						2.7×10^5
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector G Cruise 10, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.1×10^8						1.1×10^8
Rainbow smelt							
Emerald shiner	7.3×10^6						7.3×10^6
Spottail shiner							
Carp							
Freshwater drum	3.2×10^5						3.2×10^5
Yellow perch							
White bass	1.6×10^5						1.6×10^5
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie	6.4×10^5						6.4×10^5
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector G Cruise 11, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	1.7×10^7						1.7×10^7
Rainbow smelt							
Emerald shiner	9.3×10^5						9.3×10^5
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	1.5×10^5						1.5×10^5
White bass	2.7×10^5						2.7×10^5
Walleye							
White sucker							
Sunfish	1.5×10^5						1.5×10^5
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector G Cruise 12, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	3.2×10^6						3.2×10^6
Rainbow smelt							
Emerald shiner	2.4×10^6						2.4×10^6
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass	3.2×10^5						3.2×10^5
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie	3.2×10^5						3.2×10^5
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 6 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sector G Cruise 14, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	4.6×10^6						4.6×10^6
Rainbow smelt							
Emerald shiner	1.2×10^6						1.2×10^6
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie	5.5×10^5						5.5×10^5
Alewife							
Logperch darter							
Troutperch							
Sculpin							
Whitefish							
TOTAL							

TABLE 7

ESTIMATED NUMBER OF LARVAL FISH ENTERING THE MAUMEE RIVER ESTUARY
AT PERRYSBURG PER DAY^a

Species	SAMPLE DATE (1976)									
	4-7	4-8	4-13	4-15	4-21	4-23	4-27	4-29	5-4	5-7
Carp						3.89X10 ⁵	1.27X10 ⁶	2.28X10 ⁶		2.33X10 ⁴
Common shiner										
Gizzard shad										
Sauger	2.59X10 ⁴									
Sucker spp.										
Walleye	1.83X10 ⁵	8.99X10 ⁴	2.94X10 ⁵	1.74X10 ⁵	2.16X10 ⁴					2.33X10 ⁴
White bass										
White sucker						1.47X10 ⁴		5.96X10 ⁴		

TABLE 7

ESTIMATED NUMBER OF LARVAL FISH ENTERING THE MAUMEE RIVER ESTUARY
AT PERRYSBURG PER DAY (CON'T)

Species	SAMPLE DATE (1976)									
	5-10	5-14	5-18	5-20	5-25	5-27	6-1	6-3	6-8	
Carp			4.79X10 ⁶	3.46X10 ⁴	1.55X10 ⁴	4.65X10 ⁶	3.63X10 ⁴	1.13X10 ⁶	1.17X10 ⁵	
Common shiner						1.12X10 ⁴				
Gizzard shad					1.59X10 ⁵	1.54X10 ⁵	1.71X10 ⁵	1.08X10 ⁵	3.89X10 ⁴	
Sauger										
Sucker spp.					4.75X10 ⁴		1.21X10 ⁴			
Walleye										
White bass					7.95X10 ⁴	3.28X10 ⁴	1.21X10 ⁴	3.23X10 ⁵		
White sucker		1.65X10 ⁵	3.26X10 ⁵			7.17X10 ⁴			1.17X10 ⁵	

a. Estimate obtained by pooling mean density values from replicate samples at Stations 75 and 76. The resultant mean density for the riffle zone was then multiplied by the discharge rate of the Maumee River in cubic meters per second to obtain the total estimated numbers of larvae entering the estuary for the 24-hour period. Discharge rates were converted from cubic feet per second (CFS) as recorded by U.S. Geological Survey at Waterville, Ohio (Figure 8).

TABLE 8
ESTIMATED NUMBER OF LARVAL FISH
IN THE MAUMEE RIVER ESTUARY

Species	SAMPLING DATE (1976)									
	4-7	4-8	4-13	4-15	4-21	4-23	4-27	4-29	5-4	5-7
Carp							2.63×10^7	2.11×10^7	7.02×10^6	7.02×10^6
Crappie spp.										
Freshwater drum										
Gizzard shad						2.46×10^7	9.48×10^7			
Log Perch						7.02×10^6		7.02×10^6	7.02×10^6	7.02×10^6
Shiner										
Smelt										
Walleye			2.11×10^7	3.69×10^7	2.11×10^7	4.21×10^7	3.16×10^7	7.02×10^6		7.02×10^6
White Bass							1.05×10^7			
White Sucker						2.39×10^7	3.69×10^7	4.92×10^7	1.41×10^7	7.02×10^6
Yellow Perch								1.05×10^8	4.92×10^7	7.02×10^6

a. Estimate obtained by pooling the mean values of surface and bottom densities of three sampling localities: Corbitt Island area (Sta. 2, 16 and 16A), navigation channel area (Sta. 44) and mouth of the estuary (Sta. 43). The resultant mean density for the estuary was then multiplied by the volume of water in the estuary from Corbitt Island to the mouth to obtain the total population estimate.

TABLE 8
ESTIMATED NUMBER OF LARVAL FISH
IN THE MAUMEE RIVER ESTUARY
(CONT)

Species	SAMPLING DATE(1976)									
	5-10	5-12	5-14	5-18	5-20	5-25	5-27	6-1	6-3	6-8
Carp			1.41x10 ⁷	5.62x10 ⁷	3.4x10 ⁸	1.26x10 ⁸	5.27x10 ⁷	1.58x10 ⁷	1.11x10 ⁸	5.27x10 ⁷
Crappie spp.							1.05x10 ⁷			
Freshwater drum						2.63x10 ⁷		8.95x10 ⁷	2.27x10 ⁸	2.42x10 ⁸
Gizzard shad	7.02x10 ⁶			1.91x10 ⁹	6.04x10 ⁹	1.97x10 ⁹	4.38x10 ⁹	1.49x10 ¹⁰	7.03x10 ¹⁰	5.15x10 ¹⁰
Log Perch			7.02x10 ⁶	1.41x10 ⁷	5.27x10 ⁷		5.27x10 ⁷			
Shiner							5.27x10 ⁶			
Smelt				1.58x10 ⁷			5.27x10 ⁶			
Walleye	1.41x10 ⁷		1.41x10 ⁷							
White Bass	2.11x10 ⁷		7.02x10 ⁶	3.79x10 ⁸	2.19x10 ⁸	3.58x10 ⁸	3.58x10 ⁸	4.12x10 ⁹	2.05x10 ⁹	4.11x10 ⁸
White Sucker						1.05x10 ⁷		5.27x10 ⁶		
Yellow Perch						5.27x10 ⁶				1.05x10 ⁷

TABLE 9

RESULTS FROM PUMP USED AT BAYSHORE SCREEN HOUSE - 1976
Larval Fish Expressed as Number per 100 M³

DATE	5-3	5-3/4	5-4	5-4/5	5-5	5-5/6	5-6	5-6/7	5-10	5-10/11	5-11	5-11/12	5-12	5-12/13	5-13	5-13/14	5-17/18	5-18	5-18/19	5-19	5-19/20
TIME ON/OFF	1200 / 2200	2200 / 0900	0900 / 2100	2100 / 0900	0900 / 2100	2100 / 0900	0900 / 2100	2100 / 0900	1200 / 2100	2100 / 0900	0900 / 2100	2100 / 0900	0900 / 2100	2100 / 0900	0900 / 2100	2100 / 0900	2100 / 0900	0900 / 2100	2100 / 0900	0900 / 2100	2100 / 0900
No. HOURS	10	11	12	12	12	12	12	12	9	12	12	12	12	12	12	12	12	12	12	12	12
VOLUME PUMPED (M ³)	154	170	185	185	185	185	185	185	139	185	185	185	185	185	185	185	185	185	185	185	185
PUMPING DEPTH (M)	7	7	7	7	5	5	3	3	3	3	3	3	7	7	7	7	7	7	7	1	1
WHITE BASS													<1		<1	3		<1	2	24	3
GIZZARD SHAD																				2	3
YELLOW PERCH							<1	<1													
FRESHWATER DRUM																					
CARP																	1	4	1	2	<1
SMELT															>1						
WHITE SUCKER	>1																				
SAND SHINER																					
EGGS (>99.5% F.W. DRUM)													3	<1	2	12					<1

TABLE 9 CON'T.

RESULTS FROM PUMP USED AT BAYSHORE SCREEN HOUSE - 1976
Larval Fish Expressed as Number per 100 M³

DATE	5-20	5-20/21	5-24	5-24/25	5-25	5-25/26	5-26	5-26/27	5-27	5-27/28	5-31	5-31/	6-1	6-1/2	6-2	6-2/3	6-3	6-3/4	6-7	6-7/8	6-8/9
TIME ON/OFF	0900 / 2100	2100 / 1500	1200 / 2100	2100 / 0900	0900 / 2100	2100 / 0900	0900 / 2100	2100 / 0900	0900 / 2230	2230 / 1300	1200 / 2100	2100 / 0900	0900 / 2100	2100 / 0900	0900 / 2100	2100 / 0900	0900 / 2100	2100 / 0900	1130 / 2030	0830 / 0930	0930 / 0930
No. HOURS	12	18	9	12	12	12	12	12	13.5	4.5	9	12	12	12	12	12	12	12	9	25	24
VOLUME PUMPED (M ³)	185	278	139	185	185	185	185	185	208	224	139	185	185	185	185	185	185	185	139	386	370
PUMPING DEPTH (M)	1	1	5	5	3	3	7	7	1	1	5	5	3	3	7	7	1	1	7	7	1
WHITE BASS	110	6	32	<1	108	22	16		34	4	1	32	7	32		16			7	5	3
GIZZARD SHAD	69	12	31	<1	32		16	1	66	3	38	5				49			79	3	59
YELLOW PERCH																					
FRESHWATER DRUM												1				16			22	16	
CARP									>1			>1									
SMELT																					
WHITE SUCKER																					
SAND SHINER									>1												
EGGS (>99.5% F.W. DRUM)	<1		<1	18	432	5	2	11	10	19	146	33	195	65	76	29	319	424	67	576	

TABLE 10

1976 POPULATION ESTIMATES OF LARVAL FISHES IN THE SANDUSKY RIVER ESTUARY
FROM STATION 74 TO Station 77^a

SPECIES	DATE	4-12	4-14	4-17	4-22	4-26	4-28	5-3	5-5	5-11
Gizzard shad						1.6x10 ⁵	1.6x10 ⁵	1.1x10 ⁵	8.2x10 ³	
White bass						1.6x10 ⁴	6.5x10 ⁴	2.4x10 ⁴		
Walleye		6.7x10 ⁵	2.4x10 ⁵	8.1x10 ⁴	9.0x10 ⁴	8.2x10 ⁴	8.2x10 ⁴	1.6x10 ⁴		
Freshwater drum										
Logperch darter					9.8x10 ⁴	1.1x10 ⁵	8.2x10 ⁴	1.3x10 ⁵	5.7x10 ⁴	4.7x10 ⁵
Carp					4.1x10 ⁴	4.9x10 ⁴	2.4x10 ⁴			
White sucker						1.6x10 ⁴		8.2x10 ³		
Troutperch										
Black crappie										
Bluntnose minnow										
Johnny darter										
Other darters						8.2x10 ³		8.2x10 ³	8.2x10 ³	
Sunfish								8.2x10 ³		
Other suckers										
TOTAL		6.7x10 ⁵	2.4x10 ⁵	8.1x10 ⁴	2.3x10 ⁵	4.4x10 ⁵	4.2x10 ⁵	3.0x10 ⁵	7.3x10 ⁴	4.7x10 ⁵

a. Estimates obtained by pooling the surface, bottom, and riffle-tail densities of four sampling locations: 74, 75, 76, and 77. The resultant mean density for the estuary was then multiplied by the volume of water in the estuary from the first riffle to the mouth.

TABLE 10 CON'T.

1976 POPULATION ESTIMATES OF LARVAL FISHES IN THE SANDUSKY RIVER ESTUARY
FROM STATION 74 TO Station 77^a

SPECIES	DATE	5-13	5-17	5-19	5-24	5-26	5-31	6-2	6-7
Gizzard shad		1.6×10^4	1.7×10^5	3.1×10^5	7.0×10^5	1.6×10^6	1.9×10^7	5.6×10^6	8.4×10^6
White bass			7.3×10^4	8.2×10^4	3.0×10^5	3.7×10^5	2.6×10^6	1.3×10^5	1.1×10^6
Malleys									
Freshwater drum						3.7×10^5	2.6×10^5		
Logperch darter		2.0×10^5	3.0×10^5	2.4×10^4	5.7×10^4	7.3×10^4		2.2×10^5	8.9×10^4
Carp			8.5×10^5	9.3×10^5	1.6×10^4		1.9×10^5	3.8×10^5	2.0×10^5
White sucker		8.2×10^3	8.2×10^3	1.1×10^5	8.2×10^3		3.3×10^4		
Troutperch								1.3×10^5	
Black crappie						8.3×10^3			
Bluntnose minnow								8.3×10^3	
Johnny darter									8.3×10^3
Other darters					1.6×10^4	8.2×10^3	8.2×10^3		
Sunfish									
Other suckers		8.2×10^3	1.6×10^4	3.3×10^4					9.8×10^4
TOTAL		2.3×10^5	1.4×10^6	1.5×10^6	1.1×10^6	2.5×10^6	2.2×10^7	6.5×10^6	9.9×10^6

a. Estimates obtained by pooling the surface, bottom, and riffle-tail densities of four sampling locations: 74, 75, 76, and 77. The resultant mean density for the estuary was then multiplied by the volume of water in the estuary from the first riffle to the mouth.

TABLE 11

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 1; 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Miller's thumb	3.5×10^4	6.0×10^4		6.2×10^5			7.2×10^5
Whitefish							
TOTAL							

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 2, 1976

Note: Partial Survey

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	5.4×10^4						5.4×10^4
White bass							
Walleye	9.3×10^6						9.3×10^6
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Miller's thumb							
Whitefish							
TOTAL							

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 3, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Species							
Gizzard shad	1.4×10^7	9.3×10^5	1.3×10^6				1.6×10^7
Rainbow smelt							
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	3.9×10^7	2.7×10^8	2.7×10^8	9.4×10^7	1.9×10^7	8.0×10^6	7.0×10^8
White bass	4.4×10^6	3.3×10^7	1.6×10^7	1.6×10^7	4.2×10^6	9.6×10^6	1.8×10^8
Walleye	2.9×10^5		1.3×10^6				1.6×10^6
White sucker							
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Miller's thumb			1.5×10^5				1.5×10^5
Whitefish	8.9×10^4		1.4×10^6				1.5×10^6
TOTAL							

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 4, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad				3.8×10^6			3.8×10^6
Rainbow smelt	8.8×10^5	1.5×10^6	8.4×10^6	5.4×10^7	2.4×10^6		6.7×10^7
Emerald shiner							
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	2.6×10^7	8.9×10^6	4.5×10^7	1.7×10^8	1.5×10^8	1.8×10^8	5.8×10^8
White bass							
Walleye	1.4×10^5	6.0×10^4	1.3×10^6	6.2×10^5		1.6×10^6	3.7×10^6
White sucker			1.5×10^5				1.5×10^5
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Miller's thumb							
Whitefish							
TOTAL							

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 5, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	1.8×10^5	4.9×10^6					5.0×10^6
Rainbow smelt	3.6×10^6	7.8×10^6	4.3×10^7	1.1×10^8	8.6×10^8	3.4×10^8	1.4×10^9
Emerald shiner	2.7×10^5						2.7×10^5
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch	2.4×10^7	3.5×10^6	1.2×10^7	2.1×10^7	1.8×10^7	3.8×10^6	8.5×10^7
White bass	1.5×10^5						1.5×10^5
Walleye							
White sucker							
Sunfish							
Quillback carpsucker	4.5×10^4						4.5×10^4
Crappie							
Alewife							
Logperch darter							
Troutperch							
Miller's thumb			1.5×10^6				6.5×10^5
Whitefish							1.5×10^6
TOTAL							

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 6, 1976

Note: Partial Survey

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	6.1×10^4	8.1×10^5	4.0×10^6	1.2×10^7	1.2×10^7	8.8×10^7	1.2×10^8
Rainbow smelt							
Emerald shiner							1.3×10^6
Spottail shiner							2.3×10^5
Carp		2.3×10^5					
Freshwater drum							
Yellow perch	4.3×10^4	7.2×10^5	4.6×10^6		1.8×10^6	1.6×10^6	8.7×10^6
White bass							
Walleye							
White sucker	3.6×10^4						3.6×10^4
Sunfish							
Quillback carpsucker							
Crappie							
Alewife							
Logperch darter							
Troutperch							
Miller's thumb							
Whitefish							
TOTAL							

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 7, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	2.2×10^8	1.7×10^7	3.4×10^7	4.1×10^7	3.1×10^7	1.7×10^7	3.6×10^8
Rainbow smelt						2.0×10^7	2.0×10^7
Emerald shiner	8.5×10^4	5.9×10^5	2.8×10^6	7.5×10^6	9.8×10^6	2.7×10^7	4.8×10^7
Spottail shiner		1.3×10^7	1.5×10^5		8.6×10^6	3.8×10^7	5.9×10^7
Carp	9.1×10^6			6.5×10^5			9.7×10^6
Freshwater drum		7.6×10^5		3.9×10^6			4.7×10^6
Yellow perch							1.1×10^6
White bass	1.1×10^6						
Walleye							
White sucker							
Sunfish							
Quillback carpsucker			1.1×10^6				
Crappie	2.9×10^5						1.4×10^6
Alewife							
Logperch darter				3.9×10^6	2.4×10^6	8.6×10^6	1.5×10^7
Troutperch							
Miller's thumb							
Whitefish							
TOTAL							

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 8, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	1.5×10^9	2.3×10^8	6.3×10^7	1.3×10^8	2.1×10^8	1.1×10^8	2.2×10^9
Rainbow smelt	2.1×10^4						2.1×10^4
Emerald shiner	8.8×10^6	4.0×10^7	1.9×10^8	4.0×10^8	2.4×10^8	1.0×10^9	1.9×10^9
Spottail shiner	2.7×10^5	3.2×10^5	2.2×10^6	5.8×10^8		5.4×10^6	5.9×10^8
Carp	1.1×10^6	2.0×10^6	1.1×10^6	8.7×10^5	1.4×10^7	4.4×10^7	6.4×10^7
Freshwater drum	1.3×10^8	3.5×10^6	3.4×10^7	2.0×10^7	6.8×10^6	1.2×10^7	2.1×10^8
Yellow perch							7.6×10^6
White bass	3.0×10^6	4.3×10^6	4.3×10^5				
Walleye							
White sucker		2.3×10^5					2.3×10^5
Sunfish							
Quillback carpsucker							
Crappie	2.2×10^5	2.1×10^6	1.9×10^6	1.2×10^7			1.6×10^7
Alewife	6.5×10^4						6.5×10^4
Logperch darter							
Troutperch							
Miller's thumb							
Whitefish							
TOTAL							

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 9, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	2.5×10^8	2.3×10^7	7.6×10^7	2.3×10^8	2.6×10^8	3.0×10^8	1.1×10^9
Rainbow smelt		4.7×10^5					4.7×10^5
Emerald shiner	4.3×10^7	1.3×10^7	9.7×10^7	5.9×10^8	2.4×10^9	9.4×10^8	5.0×10^9
Spottail shiner			8.8×10^5	4.5×10^6			5.4×10^6
Carp	2.5×10^6	4.9×10^6	1.5×10^6		4.5×10^6	3.8×10^6	1.7×10^7
Freshwater drum	6.7×10^8	4.5×10^6	8.9×10^6	2.3×10^7	1.9×10^7	2.7×10^7	7.6×10^8
Yellow perch							
White bass	1.1×10^5	1.2×10^5	2.1×10^6	3.9×10^6			6.3×10^6
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie	2.7×10^5		2.9×10^5	6.5×10^5		8.6×10^6	9.1×10^6
Alewife							6.5×10^5
Logperch darter							
Troutperch							
Miller's thumb							
Whitefish							
TOTAL							

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 10, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	1.1×10^8	3.5×10^7	3.9×10^7	1.5×10^8	4.7×10^7	3.8×10^6	3.8×10^8
Rainbow smelt	1.7×10^7	2.9×10^7	1.4×10^9	1.1×10^9	7.5×10^8	3.2×10^9	6.4×10^9
Emerald shiner	1.8×10^4	7.4×10^4			2.4×10^6		9.1×10^4
Spottail shiner		1.5×10^6			2.4×10^6		3.9×10^6
Carp	4.0×10^5	7.4×10^4	3.1×10^5				3.1×10^6
Freshwater drum							
Yellow perch	2.0×10^5						2.0×10^5
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie	6.8×10^5						6.8×10^5
Alewife	2.7×10^5						2.7×10^5
Logperch darter			8.6×10^5	3.9×10^6			4.8×10^6
Troutperch							
Miller's thumb							
Whitefish							
TOTAL							

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 11, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	2.2×10^7	5.2×10^6	4.7×10^6	8.6×10^6	7.4×10^6		4.8×10^7
Rainbow smelt							
Emerald shiner	7.2×10^6	7.4×10^6	1.3×10^8	1.6×10^8	3.3×10^8	6.8×10^7	7.0×10^8
Spottail shiner							
Carp		7.0×10^5					7.0×10^5
Freshwater drum			8.6×10^5				8.6×10^5
Yellow perch	1.5×10^5						1.5×10^5
White bass	2.7×10^5						2.7×10^5
Walleye							
White sucker							
Sunfish	1.5×10^5						1.5×10^5
Quillback carpsucker							
Crappie							
Alewife	5.4×10^4					1.6×10^6	1.7×10^6
Logperch darter							
Troutperch							
Miller's thumb							
Whitefish							
TOTAL							

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 12, 1976

Depth Zones Species	1	2	3	4	5	6	TOTAL
Gizzard shad	6.7×10^6	3.4×10^6	4.4×10^6				1.5×10^7
Rainbow smelt							
Emerald shiner	1.6×10^7	1.5×10^7	7.7×10^7	1.1×10^8	1.1×10^8	7.3×10^8	1.1×10^9
Spottail shiner							
Carp							
Freshwater drum	3.8×10^5						3.8×10^5
Yellow perch							
White bass	3.2×10^5						3.2×10^5
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie	3.2×10^5						3.2×10^5
Alewife	3.6×10^4	2.8×10^5	2.0×10^6				2.8×10^6
Logperch darter							
Troutperch							
Miller's thumb							
Whitefish							
TOTAL							

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 13, 1976

Note: Incomplete, only Sec "D"

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad							
Rainbow smelt							
Emerald shiner	1.8×10^4						
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crapple							
Alewife							
Logperch darter							
Troutperch							
Miller's thumb							
Whitefish							
TOTAL						1.6×10^6	1.6×10^6

TABLE 11 CON'T.

ESTIMATED NUMBER OF FISH IN LAKE ERIE
Sectors A-G, Cruise 14, 1976

Depth Zones	1	2	3	4	5	6	TOTAL
Gizzard shad	4.6×10^6						4.6×10^6
Rainbow smelt							
Emerald shiner	1.7×10^6	1.8×10^6	1.5×10^5				3.7×10^6
Spottail shiner							
Carp							
Freshwater drum							
Yellow perch							
White bass							
Walleye							
White sucker							
Sunfish							
Quillback carpsucker							
Crappie (White)	5.5×10^5						5.5×10^5
Alewife							
Logperch darter							
Troutperch							
Miller's thumb							
Whitefish							
TOTAL							

TABLE 12

ESTIMATED NUMBER OF FISH IN LAKE ERIE
- CRUISES 1-14, 1976

Species	1	2 Partial Survey	3	4	5	6 Partial Survey	7	8
Gizzard shad			1.6×10^7	3.8×10^6	5.0×10^6		3.6×10^8	2.2×10^9
Rainbow smelt				6.7×10^7	1.4×10^9	1.2×10^8	2.0×10^7	2.1×10^4
Emerald shiner					2.7×10^5	1.3×10^6	4.8×10^7	1.9×10^9
Spottail shiner						2.3×10^5	5.9×10^7	5.9×10^8
Carp							9.7×10^6	2.1×10^8
Freshwater drum								
Yellow perch		5.4×10^4	7.0×10^8	5.8×10^8	8.5×10^7	8.7×10^6	4.7×10^6	7.6×10^6
White bass					1.5×10^5			
Walleye		9.3×10^6	1.8×10^8	3.7×10^6				
White sucker			1.6×10^6	1.5×10^5		3.6×10^4		2.3×10^5
Sunfish								
Quillback carpsucker					4.5×10^4		1.4×10^6	
Crappie								1.6×10^7
Alewife								
Logperch darter								
Troutperch					6.5×10^5		1.5×10^7	6.5×10^4
Sculpin			1.5×10^5		1.5×10^6			
Whitefish			1.5×10^6					
TOTAL	7.2×10^5							

DAY VS. NIGHT TOWS

Station: D 5/1

Date: 7-4-76

SURFACE

Day 1045			Night 2330		
Species	Length (mm)	No/100 m ³	Species	Length (mm)	No/100 m ³
Gizzard shad	10-16	15	Gizzard shad	13-19	16
			Alewife	20-25	11
			Smelt	21	1
Emerald shiner	7-12	49	Emerald shiner	7-11	5
			Carp	7	3
			White bass	10	1

BOTTOM

Gizzard shad	6-14	2	Gizzard shad	10-16	8
			Alewife	20-23	26
			Smelt	17-38	48
Emerald shiner	7-9	8	Emerald shiner		0
			Carp		0
Drum	5-6	3	White bass	10	2

Station: D 2/1

Date: 7-4-76

SURFACE

Day 1120			Night 2320		
Gizzard shad	10-15	23	Alewife	14-20	239
Emerald shiner	7	17	Emerald shiner	6-14	1431
			Spottail shiner	7	15
Drum	8	2	Drum	5	15
White bass	8	2			

BOTTOM

Gizzard shad	12-13	12	Gizzard shad	12-23	152
			Alewife	17-20	59
			Smelt	20-40	53
Emerald shiner	8	7	Emerald shiner	6-9	106
			Drum	4-7	28
			White bass	10	1

SURFACE/BOTTOM VS. OBLIQUE TOWS

Station: D 5/1 Date: 7-7-76 Time: 1500 hrs. Species: Emerald shiners

<u>Tow No.</u>	<u>Surface</u>	<u>Bottom</u>	<u>Mean S/B</u>	<u>Oblique</u>
1	310*	34	172	12
2	458	64	261	49
3	128	25	77	28
4	204	25	114	16
5	225	37	131	63

* All numbers are No. larvae/100 m³ water