

1985 Fish Study

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

Fisheries Division

FISH COLLECTION

Water North Lake

County Washtenaw

T. 1S R. 3-4E Sec. 13,18

Date 6/13/85

I.D. _____

Sheet 1 of 4

Summary of: () All sites () Coll. site No. _____ () Index site No. _____ () All gear () Gear trapnets, gillnets, mini-fykes

Sample site(s): Number of _____ Depth Range 0-35 ft Temperature range _____

Location(s) (describe or map below): see attached lake map for locations

Cover (abundance, type): Potamogeton crispus & Miriophyllum spp - abundant/typha latifolis - common

Fish foods: golden shiners, bluntnose minnows

Water clarity, level, etc.: no secchi reading - probably about 3-4 ft Cond.: _____ Electro. eff.: _____

Weather: Present sunny, cool, windy in pm Preceding cool, calm, overcast

Temperature: Air 60°F Water surface 63°F Time of day 10:00am

Stream: Length _____ Avg. width _____ Avg. depth _____

Velocity: Ave. _____ Surface _____ Discharge _____

Bottom type: sand areas-common muck - present

Gear Description: 6 trap nets, 3 experimental gill nets, 2 mini-fyke minnow nets

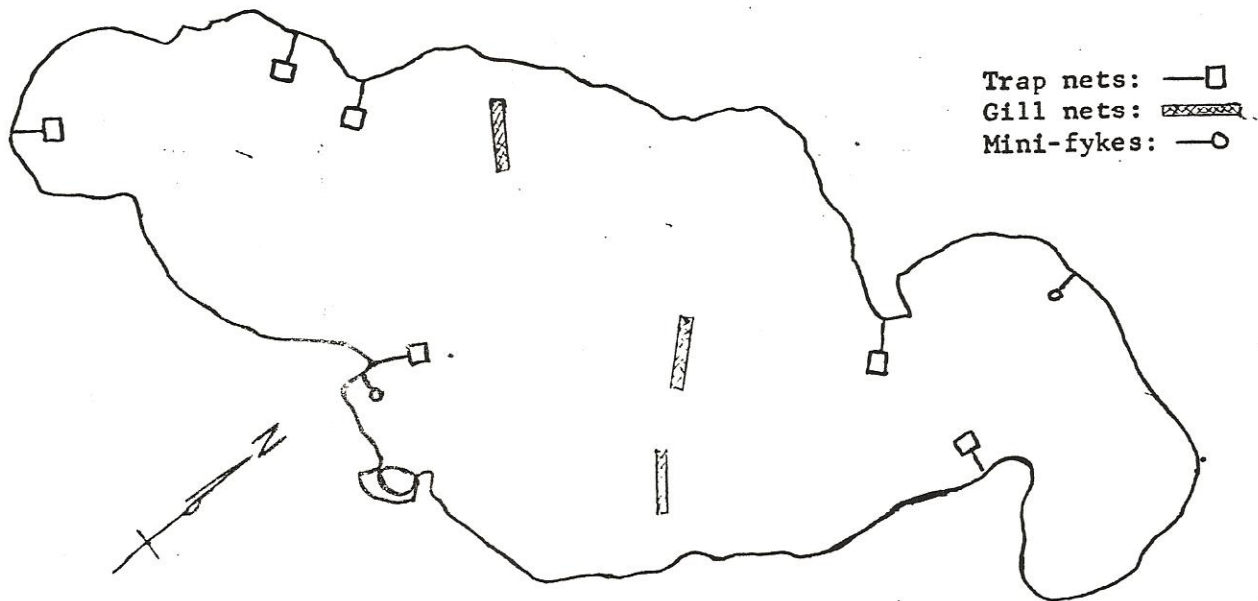
Effort: Net lifts 6T, 3G, 2MF Net nights 6T, 3G, 2MF Area covered 227 acres Hours shocked _____

Purpose of collection: general survey and observations

Data collected (): () CATCH SUMMARY () LENGTH-FREQUENCY () LENGTH-BIOMASS () LENGTH-WEIGHT REGRESSION () GROWTH () MARK & RECAPTURE ESTIMATES () AGE-FREQUENCY & SURVIVAL

Analysis, map, remarks, fishing reports: **Analysis:** The fish population of North Lake is in rather poor condition when compared to the majority of other District 13 lakes of similar (cont'd)

FOLD
HERE



Analysis by Towns/Data-VanDerlaan Sec. District 13-Fish
Collection by VanDerLaan, Kruger Sec. Dist 13-Fish Identification by Towns Sec Dist 13-Fish

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R8058
Rev. 3/82

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RETURN TO:

Jerald G Bachman
7816 Stonehedge Vally Dr
Gregory MI 48137

size. Bluegills, black crappies and largemouth bass are generally small and slow growing. For example, 733 bluegills averaged 5.7 inches. The average for most comparable lakes is about 6.0 inches. Perhaps more importantly, only 8 of the 733 bluegills were 7.0 inches or longer, and no 8 inch (+) bluegills were captured. In addition, these fish were quite thin and did not appear to be as healthy (robust) as many other bluegill populations.

This lake has been reported by anglers to be fair for bass fishing. However, of the 19 largemouth bass captured during the survey, only 2 were legal size (12 inches or longer). The number of bass captured is quite typical for a survey of this type. Bass tend to avoid capture in trap and gill nets.

Only one northern pike was captured. Angler reports for this species are rather conflicting, however, in general pike fishing has been reported as better in years past. There is some potential for a pike marsh adjacent to the lake. Also, pike fingerlings could be stocked to increase the quality of the sport fishery.

The property surrounding the lake has not be sewered. Yet, no severe "weed" problems were observed around the lake margins.

Recommendations: Investigate possibility of pike marsh development or stocking northern pike or musky fingerlings. More investigation is needed to develop the full potential for this lake. The lake basin configuration (depth, size, etc.) and lack of rough fish (carp, suckers, etc.) indicates that the lake should have a better sport fish population than was observed by this survey.

North Lake

T. 1S R. 3-4E Sec. 13, 18

Date 6-13-85

Washtenaw

I.D.

Sheet 2 of 4

Summary of: (x) All sites () Coll. site No. () Index site No. () All gear () Gear trapnets and gillnets

Species	Warmouth		Longear sunfish		Bullheads		White suckers		Golden shiner		Blue-gills	
	trapnets		trapnet		trapnet		trapnet		trapnet		gill net	
Length	6.5		4.5		9.8		19.5		7.7		6.6	
Avg. Wt.	0.4		0.05		0.54		2.9		0.2		0.2	
Total	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.
		1	0.4	2	0.1	154	79.7	1	2.9	9	1.7	13
%	0.1	0.2	0.2	0.05	12.7	36.4	0.1	1.3	0.7	0.8	21.7	11.2
CPE	0.2	0.07	0.3	0.02	25.7	13.3	0.2	0.5	1.5	0.3	4.3	0.8
% L-A	100	100	0	0	100	100	100	100	100	100	92.3	--
Inches												
1												
2												
3												
4			2									
5											1	
6	1								1		10	
7					6				5		2	
8					42				3			
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10					56							
11					12							
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Sample total												

LENGTH-FREQUENCY & LENGTH-BIOMASS SAMPLE

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

Fisheries Division

FISH COLLECTION (CON'T.)

North Lake

T. 1S R. 3-4E Sec. 13, 18

Date 6/13/85

Washtenaw

I.D.

Sheet 3 of 4

Summary of: (X) All sites () Coll. site No. () Index site No. () All gear (X) Gear gill nets, mini-fyke

Species	Golden shiner		Chubsucker		Blugills		Pumpkinseed sunfish		warmouth		Green sunfish	
	gill net		gill net		mini-fyke		mini-fyke		mini-fyke		mini-fyke	
Length	8.17		9.5		2.96		3.75		4.79		3.5	
Avg. Wt.	0.27		0.5		0.03		0.05		0.08		0.1	
Total	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.
	3	0.8	1	0.5	26	0.65	8	0.4	7	0.55	1	0.1
%	5.0	3.7	1.7	2.3	59.1	28.9	18.2	17.8	15.9	24.4	2.3	4.4
CPE	1.0	0.27	0.3	0.17	13	0.32	4.0	0.2	3.5	0.28	0.5	0.05
% L-A	100	100	100	100	0	0	0	0	0	0	0	0

Inches	Golden shiner		Chubsucker		Blugills		Pumpkinseed sunfish		warmouth		Green sunfish	
	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.
1					1							
2					17		1					
3					3		4				1	
4					5		3		5			
5									2			
6												
7	2											
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9	1		1									
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Sample total												

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

FISH GROWTH ANALYSIS

T. IS R 3-4E Sec. 13, 18

Collection Date 6-13-85

Water North Lake
County Washtenaw

Gear and Methods Trap nets, gill nets, and mini-lyke nets

Collected By GTowns/VanDerLaan/Kruger/Hal Section D-13 Fish Aged By K. Kruger Section D-13 Fish

Species ↓	Age Group ↘	Number of fish	Length range in inches	Mean length in inches	State avg. length	Growth index (by age group)	Mean growth index for species
Bluegill	I	2	1.6-2.3	2.0	3.0	(-1.0)	
	II	7	2.4-3.6	2.7	4.2	-1.5	
	III	2	2.9-2.9	2.9	5.3	(-2.4)	
	IV	2	3.7-4.6	4.2	6.2	(-2.0)	
	V	21	4.6-7.2	5.5	6.9	-1.4	
	VI	22	5.2-7.2	6.3	7.4	-1.1	
	VII	9	5.7-7.4	6.7	8.0	-1.3	
	VIII	2	6.8-7.2	7.0	8.4	(-1.4)	-1.3
Black crappie	II	7	5.7-8.5	6.7	6.5	+0.2	
	III	17	6.6-8.6	7.7	7.9	-0.2	
	IV	6	6.8-9.3	8.0	8.9	-0.9	
	V	2	7.9-10.3	9.1	9.7	(-0.6)	-0.3
Northern Pike	V	1	29.1	29.1	26.1	(+0.3)	-
	VIII	2	8.1-8.5	8.3	6.3	(+2.0)	-
Pumpkinseed							

↓ Several species may be listed on one sheet.
↘ Age in years. Fish become one year older on January 1.

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like is in rather
3 lakes of similar

FOLD
HERE

FISH COLLECTION

6/13/85

at 1 of 4

trapnets, gillnets, mini-lykes

perure range

yppha latifolis - common

Electro. eff:

no overcast

Time of day 10:00am

Avg. depth

Discharge

flow nets

Hours shocked

ACRES

H-WEIGHT REGRESSION

/AL

ES

(over)

Analysis by Towns/Data-VanderLaan
Collection by VanderLaan, Kruger

Sec. Dist 13-Fish

Identification by

Towns

Sec.

District 13-Fish

Sec Dist 13-Fish

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Species ↓	Age Group ↴	Number of fish	Length range in inches	Mean length in inches	State avg. length	Growth index (by age group)	Mean growth index for species
Largemouth bass	I	2	6.2-6.8	6.5	5.4	(+1.4)	
	II	11	6.1-10.5	8.3	8.7	-0.5	
	III	4	9.2-11.0	10.3	10.8	(-0.3)	
	IV	2	12.2-13.2	12.7	12.0	(+0.7)	-0.5

Numbers in () can be used only to indicate trends as not enough individuals were captured per inch group to be considered statistically significant.

Analysis: North Lake supports a rather poor, slow growing sport fish population. See Fish Collection Report form #R8058 for this lake on 6/13/85.

Prepared by GTowns Section D-13, Fisheries Date 1-22-86

Copies to: Lansing Region District IER

CATCH SUMMARY BY GEAR

Gear = _____ or as indicated

Species	Pumpkinseed sunfish		Yellow perch		Black crappies		Largemouth bass		Rock bass		Bullheads		Longnose gar	
	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.
Gear														
Length	5.9		7.0		9.5		7.5		7.5		8.79		42.5	
Avg. Wt.	0.13		0.13		0.4		0.25		0.23		0.38		5.1	
Total	7	0.9	4	0.5	2	0.8	2	0.5	3	0.7	24	9.2	1	5.1
%	11	4.2	6.7	2.3	3.3	3.7	3.3	2.3	5.0	3.3	40.0	43.0	1.7	23.8
CPE	2.3	0.3	1.3	0.17	0.67	0.27	0.67	0.17	1.0	0.23	8.0	3.07	0.3	1.7
% L-A	42.9	-	50.0	50.0	100	100	0	0	100	100	95.8	--	100	100

Inches	Pumpkinseed sunfish		Yellow perch		Black crappies		Largemouth bass		Rock bass		Bullheads		Longnose gar	
	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.
1														
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42													1	
Sample total														

LENGTH-FREQUENCY & LENGTH-BIOMASS SAMPLE

↓ Record average length or range in length of fish.
 ↓ Total % = percent contribution of the species to the total catch in the gear.
 ↓ L-A = Legal- or acceptable- size game fish: bluegill, sunfish, rock bass-6"; crappie, perch, bullhead-7"; bass-12"; walleye-15"; pike 20"; muskie-30"; trout-7" in U.P. streams, 8" in L.P. streams, 10" in lakes.
 *OR:
 ↓ Inch groups: 1=1.0-1.9, 2=2.0-2.9, etc.

CATCH SUMMARY BY GEAR

Gear mini-fyke

or as indicated.

Species	blunt-nosed minnow		bullheads											
	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.
Gear														
Length	2.0-2.3		8.0											
Avg. Wt.	N/A		0.28											
Total	N/A	N/A	2	0.55										
%	-	-	4.5	24.4										
CPE	-	-	1.0	0.28										
% L-A	-	-	100	100										
Inches														
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40														
Sample total														

LENGTH-FREQUENCY & LENGTH-BIOMASS SAMPLE

↘ Record average length or range in length of fish.
 ↘ Total % = percent contribution of the species to the total catch in the gear.
 ↘ L-A = Legal- or acceptable- size game fish: bluegill, sunfish, rock bass-6"; crappie, perch, bullhead-7"; bass-12"; walleye-15"; pike-20"; muskie-30"; trout-7" in U.P. streams, 8" in L.P. streams, 10" in lakes.
 OR
 ↘ Inch groups: 1=10-19 2=20-29, etc.

CATCH SUMMARY BY GEAR

Gear = trap nets, or as indicated.

Species	Bluegills		Pumpkinseed sunfish		black crappies		rock bass		Green sunfish		largemouth bass		North pike	
	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.
Gear														
Length	5.72		5.6		7.6		6.88		5.5		9.32		29.5	
Avg. Wt.	0.12		0.13		0.2		0.19		0.2		0.34		--	
Total	733	86.6	237	31.31	39	7.8	13	2.5	2	0.4	17	5.8	1	N/A
%	60.5	39.5	19.6	14.3	3.2	3.6	1.1	1.1	0.2	0.2	1.4	2.6	0.1	--
CPE	122.2	14.4	39.5	5.2	6.5	1.3	2.2	0.4	0.3	0.1	2.8	0.97	0.2	--
% L-A	35.6	--	25.7	--	76.9	--	76.9	--	0	0	11.7	--	100	100
Inches														
1														
2														
3														
4	109		37					1						
5	363		139		2		2		2					
6	253		61		7		3				3			
7	8				18		5				2			
8					10		2				2			
9					2						4			
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39														
40														
Sample total														

ALL SPECIES TOTAL

Gear	No.	Lb.
trap nets	1209	219.21
gill nets	60	21.4
mini-fyke nets	44	2.25

Record average length or range in length of fish.

Total % = percent contribution of the species to the total catch in the gear.

L-A = Legal- or acceptable- size game fish: bluegill, sunfish, rock bass-6"+; crappie, perch, bullhead-7"+; bass-12"+; walleye-15"+; pike-20"+; muskie-30"+; trout-7"+ in U.P. streams, 8"+ in L.P. streams, 10"+ in lakes.

OR:

Inch groups: 1=1.0-1.9, 2=2.0-2.9, etc.