



Section of Fisheries
INVESTIGATIONAL REPORT

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No. 389 Appendix

**STATUS AND SIMULATION MODEL OF
LAKE OF THE WOODS, MINNESOTA, WALL EYE FISHERY**

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Appendix

STATUS AND SIMULATION MODEL OF
LAKE OF THE WOODS, MINNESOTA, WALLEYE FISHERY¹

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INTRODUCTION

Oftentimes it is impossible to print all of the important data from a lengthy survey such as that on Lake of the Woods because of the length of the Investigational Report. At the same time, much of this data is quite important for future comparisons and for researchers who may want to do further data analysis.

To accommodate the anticipated needs and to reduce mailing costs, we have decided to produce a set of appendix tables in a separate publication. It is not intended for these appendix tables to have wide distribution but to be made available upon request.

Table 1. Length-frequency of walleye captured in assessment gill nets in July on Lake of the Woods, Minnesota, 1968-70^a and 1980-84.

Total length in inches	1968	1969	1970	1980	1981	1982	1983	1984
3.0 - 3.4								
3.5 - 3.9								
4.0 - 4.4						1		
4.5 - 4.9						1		
5.0 - 5.4						1		
5.5 - 5.9			2					
6.0 - 6.4			7	5	2	2		
6.5 - 6.9	1	1	4	17	10	9	3	10
7.0 - 7.4	4	4	2	14	15	66		27
7.5 - 7.9	22	19	2	7	6	21	1	37
8.0 - 8.4	25	26	1	7	8	20	3	42
8.5 - 8.9	48	35	4	23	14	4	13	13
9.0 - 9.4	67	54	3	26	41	19	25	7
9.5 - 9.9	36	58	1	37	20	27	16	15
10.0 - 10.4	10	70	2	17	16	20	4	13
10.5 - 10.9	2	91	5	5	18	21	3	19
11.0 - 11.4	6	107	18	13	33	28	10	15
11.5 - 11.9	4	76	33	14	36	40	9	25
12.0 - 12.9	27	67	154	26	36	68	17	82
13.0 - 13.9	38	49	117	75	30	90	35	57
14.0 - 14.9	35	51	31	54	39	43	36	42
15.0 - 15.9	21	36	11	37	32	21	16	42
16.0 - 16.9	7	12	7	16	20	14	16	25
17.0 - 17.9	3	5	3	11	14	13	5	14
18.0 - 18.9		1	1	5	9	6	6	9
19.0 - 19.9	1	2	2	3		2	3	4
20.0 - 20.9		1			1	1	1	1
21.0 - 21.9							1	1
22.0 - 22.9	1	1						
23.0 - 23.9				3		1		
24.0 - 24.9								
25.0 - 25.9								
26.0 - 26.9				1				
Totals	358	766	410	416	400	539	223	500
Walleye ≥ 16 in	12	22	13	38	44	37	32	54
% of total ≥ 16 in	3.3	2.9	3.2	9.2	11.0	6.9	14.3	10.8
Mean % $\geq$			9%		1980-84 = 10.7%			

^a From Schupp (1974).

Table 2. Length-frequency of walleye captured in assessment gill nets in September on Lake of the Woods, Minnesota, 1968-70^a and 1980-84.

Total length in inches	1968	1969	1970	1980	1981	1982	1983	1984
3.0 - 3.4								
3.5 - 3.9							1	
4.0 - 4.4					1		3	
4.5 - 4.9								
5.0 - 5.4		3				1		
5.5 - 5.9							1	
6.0 - 6.4		2	4		12		6	
6.5 - 6.9		1	6	3	35	2	44	
7.0 - 7.4		3	4	13	13	7	45	5
7.5 - 7.9	2	1	2	16	1	11	10	19
8.0 - 8.4			8	25	5	12	13	11
8.5 - 8.9	2	3	14	27	10	8	20	34
9.0 - 9.4	16		20	19	17	15	42	81
9.5 - 9.9	40		6	21	13	8	19	90
10.0 - 10.4	52	4	5	23	18	9	18	68
10.5 - 10.9	70	21	1	48	26	8	14	33
11.0 - 11.4	45	47	4	50	38	12	31	33
11.5 - 11.9	24	84	5	27	31	12	40	46
12.0 - 12.9	7	252	47	52	67	44	67	72
13.0 - 13.9	19	135	255	81	117	56	71	122
14.0 - 14.9	24	32	291	165	88	40	59	113
15.0 - 15.9	17	25	91	107	57	26	79	77
16.0 - 16.9	18	24	28	78	81	20	62	99
17.0 - 17.9	5	12	14	47	68	18	27	62
18.0 - 18.9	1	3	6	25	26	9	16	27
19.0 - 19.9	4	3	2	4	6	4	7	4
20.0 - 20.9	2		2	5	1	4	3	9
21.0 - 21.9	1	1		1	1	1		2
22.0 - 22.9					2	1		1
23.0 - 23.9	1							
24.0 - 24.9								1
25.0 - 25.9								
26.0 - 26.9								
Totals	350	654	815	837	734	328	698	1,009
Walleye ≥ 16 in	32	43	52	160	185	57	115	205
% of total ≥ 16 in	9.1	6.6	6.4	19.1	25.2	17.4	16.4	20.3
Mean % ≥ 16 in	1968-70 = 7.0%				1980-84 = 20.0%			

^a From Schupp (1974).

Table 3. Calculated mean length at each annulus and mean annual growth increments () for walleye, Lake of the Woods, Minnesota, 1980.

Year class	No. of fish	Mean calculated total length (in) at each annulus							
		1	2	3	4	5	6	7	8
1972	1	4.8(3.0)	7.8(3.1)	10.9(1.6)	12.5(2.5)	15.0(1.3)	16.3(1.0)	17.3(0.8)	18.1
1973	8	5.0(2.9)	7.9(2.8)	10.7(2.1)	12.8(1.8)	14.6(1.4)	16.0(1.1)	17.1	
1974	16	5.2(2.6)	7.8(2.9)	10.7(2.6)	13.3(1.8)	15.1(1.3)	16.4		
1975	19	5.6(3.1)	8.7(2.6)	11.3(2.2)	13.5(1.5)	15.0			
1976	63	5.8(2.9)	8.8(2.7)	11.4(2.0)	13.5				
1977	19	5.4(2.8)	8.3(2.9)	11.1					
1978	40	5.7(3.0)	8.7						
1979	20	5.8							
Grand mean		5.6(5.6)	8.5(2.9)	11.2(2.7)	13.4(2.2)	15.0(1.6)	16.3(0.8)	17.1(2.5)	19.6
No. fish		186	166	126	107	44	25	9	1

Table 4. Calculated mean length at each annulus and mean annual growth increments () for walleye, Lake of the Woods, Minnesota, 1981.

Year class	No. of fish	Mean calculated total length (in) at each annulus							
		1	2	3	4	5	6	7	8
1973	1	4.8(3.3)	8.1(1.5)	9.5(2.8)	12.4(1.6)	14.0(1.4)	15.4(1.6)	16.9(1.2)	18.1
1974	3	4.8(3.2)	8.0(2.2)	10.1(2.3)	12.4(1.9)	14.3(1.6)	15.8(1.2)	17.0	
1975	27	5.3(2.9)	8.2(2.9)	11.1(2.2)	13.3(1.8)	15.1(1.4)	16.5		
1976	57	5.8(2.8)	8.6(2.6)	11.2(2.0)	13.2(1.7)	14.9			
1977	25	5.5(2.7)	8.2(2.5)	10.7(2.3)	13.0				
1978	61	5.5(2.9)	8.4(2.5)	10.8					
1979	42	5.4(2.9)	8.3						
1980	11	6.2							
Grand mean		5.6(2.8)	8.4(2.6)	11.0(2.2)	13.2(1.7)	14.9(1.5)	16.4(0.6)	17.0(1.1)	18.1
No. fish		227	216	174	113	88	31	4	1

Table 5. Calculated mean length at each annulus and mean annual growth increments () for walleye, Lake of the Woods, Minnesota, 1982.

Year class	No. of fish	Mean calculated total length (in) at each annulus							
		1	2	3	4	5	6	7	8
1974	1	5.6(2.7)	8.3(3.3)	11.6(2.5)	14.1(1.7)	15.8(1.7)	17.5(1.3)	18.8(1.4)	20.2
1975	4	4.8(2.4)	7.2(2.8)	10.1(2.4)	12.5(2.1)	14.6(1.4)	16.1(1.1)	17.1	
1976	5	5.6(2.9)	8.5(3.2)	11.6(2.6)	14.3(1.8)	16.1(1.4)	17.5		
1977	5	5.6(3.0)	8.6(2.6)	11.2(2.3)	13.4(1.7)	15.1			
1978	15	5.4(2.7)	8.2(2.2)	10.4(2.3)	12.6				
1979	13	5.4(3.1)	8.4(3.0)	11.5					
Grand mean		5.4(2.9)	8.3(2.6)	10.9(2.2)	13.1(2.3)	15.4(1.5)	16.9(0.6)	17.5(2.7)	20.2
No. fish		43	43	43	30	15	10	5	1

Table 6. Calculated mean length at each annulus and mean annual growth increments () for walleye, Lake of the Woods, Minnesota, 1983

Year class	No. of fish	Mean calculated total length (in) at each annulus													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
1969	3	5.2(2.6)	7.8(2.5)	10.3(2.3)	12.6(2.9)	15.5(3.0)	18.6(2.0)	20.6(1.5)	22.1(1.0)	23.1(0.9)	24.0	24.6(0.6)	25.2(0.4)	25.6(0.4)	26.0
1970	2	6.2(1.6)	7.7(2.2)	9.9(4.3)	14.2(1.8)	16.0(2.2)	18.2(2.0)	20.2(1.8)	22.0(1.2)	23.2(0.8)	24.0	24.6(0.6)	25.0(0.5)	25.5	
1971	1	6.1(3.9)	10.0(3.4)	13.4(1.3)	14.6(1.3)	15.9(2.3)	18.2(2.0)	20.2(1.2)	21.3(0.6)	22.0(0.6)	22.6	23.5(0.3)	23.9		
1972	0														
1973	2	5.8(3.1)	8.9(2.6)	11.5(2.9)	14.4(1.8)	16.2(1.9)	18.0(1.1)	19.1(1.2)	20.4(0.9)	21.3(0.4)	21.7				
1974	8	5.8(3.1)	8.9(3.3)	12.2(2.3)	14.5(1.6)	16.1(1.2)	17.3(1.2)	18.6(1.2)	19.8(1.1)	20.8					
1975	15	6.0(3.2)	9.2(2.8)	12.0(2.0)	14.0(1.6)	15.7(1.5)	17.2(1.2)	18.4(0.8)	19.3						
1976	26	5.9(2.9)	8.7(2.7)	11.5(1.9)	13.4(1.6)	15.0(1.6)	16.6(1.0)	17.6							
1977	11	5.5(3.0)	8.5(2.7)	11.2(2.3)	13.4(1.9)	15.4(1.3)	16.6								
1978	44	5.4(2.7)	8.1(2.8)	10.9(2.4)	13.3(1.5)	14.8									
1979	47	5.3(3.0)	8.2(3.1)	11.3(1.8)	13.2										
1980	34	5.5(3.2)	8.7(2.2)	10.8											
1981	25	6.2(2.4)	8.6												
1982	29	5.0													
Grand mean		5.5(3.0)	8.5(2.7)	11.2(2.2)	13.4(1.8)	15.2(1.8)	17.0(1.3)	18.3(1.7)	20.0(1.7)	21.7(1.6)	23.3	24.4(0.5)	24.9(0.7)	25.6(0.4)	26.0
No. fish		247	218	193	159	112	68	57	31	16	8	6	6	5	3

Table 7. Calculated mean length at each annulus and mean annual growth increments () for walleye, Lake of the Woods, Minnesota, 1984.

Year class	No. of fish	Mean calculated total length (in) at each annulus									
		1	2	3	4	5	6	7	8	9	10
1974	1	5.8(3.3)	9.1(3.0)	12.2(2.0)	14.1(1.7)	15.9(1.2)	17.0(0.9)	17.9(0.5)	18.4(1.0)	19.4(0.6)	20.0
1975	3	6.5(3.2)	9.6(2.4)	12.0(2.4)	14.4(2.0)	16.4(1.5)	17.9(1.3)	19.2(1.0)	20.2(0.9)	21.1	
1976	8	5.4(3.1)	8.5(2.4)	11.0(2.0)	13.0(1.8)	14.8(1.4)	16.2(1.0)	17.2(1.1)	18.3		
1977	14	5.7(2.9)	8.6(2.4)	11.1(2.2)	13.3(1.8)	15.1(1.3)	16.4(1.3)	17.7			
1978	40	5.5(2.9)	8.4(2.7)	11.1(2.5)	13.6(1.6)	15.2(1.7)	16.9				
1979	92	5.3(3.0)	8.2(3.1)	11.3(1.9)	13.3(2.0)	15.2					
1980	61	5.6(3.2)	8.8(2.1)	10.9(2.8)	13.8						
1981	106	6.0(2.3)	8.3(3.4)	11.8							
1982	64	5.1(4.2)	9.3								
1983	90	6.5									
Grand mean		5.7(2.9)	8.6(2.8)	11.4(2.1)	13.5(1.7)	15.2(1.6)	16.8(0.9)	17.7(1.1)	18.8(1.9)	20.7(0.7)	20.0
No. fish		479	389	325	219	158	66	26	12	4	1

Table 8. Calculated mean lengths (in) at each annulus and mean annual growth increments () for female walleye, Lake of the Woods, Minnesota, 1983.

Year class	No. of fish	Mean calculated total length (in) at each annulus													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
1969	1	6.0(3.5)	9.4(3.7)	13.1(1.9)	15.1(1.9)	17.0(1.6)	18.5(1.9)	20.4(1.3)	21.7(0.7)	22.4(0.5)	22.9(0.9)	23.7(0.4)	24.5(0.4)	24.9(0.5)	25.4
1973	1	5.6(3.6)	9.2(2.1)	11.4(2.6)	13.9(1.6)	15.6(2.0)	17.6(0.6)	18.1(0.6)	18.7(0.6)	19.4(0.2)	19.6				
1975	3	6.0(3.3)	9.4(2.8)	12.1(1.9)	14.0(1.2)	15.2(1.3)	16.6(1.3)	17.9(1.0)	18.9						
1976	16	5.9(2.7)	8.5(2.7)	11.2(1.0)	12.9(1.7)	14.6(1.6)	16.2(1.0)	17.2							
1977	7	5.6(3.0)	8.6(2.5)	11.1(2.1)	13.2(2.1)	15.3(1.3)	16.6								
1978	24	5.4(2.8)	8.2(2.8)	11.0(2.4)	13.4(1.6)	15.0									
1979	27	5.4(2.9)	8.3(3.2)	11.5(2.0)	13.5										
1980	10	5.7(3.2)	8.9(2.2)	11.0											
1981	4	6.4(2.3)	8.6												
1982	2	6.4													
Grand mean		5.6(2.9)	8.5(2.8)	11.2(2.1)	13.4(1.7)	15.0(1.5)	16.5(1.1)	17.5(1.0)	19.4(0.7)	20.9(0.8)	21.2(0.4)	23.7(0.8)	24.5(0.9)	24.9(0.4)	25.4
No. fish		95	93	89	79	52	28	21	5	2	2	1	1	1	1

Table 9. Calculated mean lengths (in) at each annulus and mean annual growth increments () for male walleye, Lake of the Woods, Minnesota, 1983.

Year class	No. of fish	Mean calculated total length (in) at each annulus							
		1	2	3	4	5	6	7	8
1975	5	5.7(3.1)	8.8(2.4)	11.2(2.1)	13.3(1.5)	14.8(1.0)	15.8(0.8)	16.6(0.7)	17.3
1976	7	5.5(3.1)	8.6(2.7)	11.3(2.1)	13.4(1.6)	15.0(1.3)	16.3(0.8)	17.1	
1977	3	5.6(2.2)	7.8(3.1)	10.8(2.3)	13.2(1.5)	14.7(0.9)	15.6		
1978	19	5.3(2.6)	7.9(2.8)	10.7(2.5)	13.2(1.4)	14.6			
1979	20	5.2(3.0)	8.1(3.0)	11.1(1.7)	12.8				
1980	24	5.4(3.2)	8.6(2.2)	10.7					
1981	19	6.1(2.4)	8.5						
1982	27	4.9							
Grand mean		5.4(2.8)	8.3(2.6)	10.9(2.1)	13.1(1.5)	14.7(1.1)	16.0(0.8)	16.9(0.7)	17.3
No. fish		124	97	78	54	34	15	12	5

Table 10. Calculated mean lengths (in) at each annulus and mean annual growth increments () for female walleye, Lake of the Woods, Minnesota, 1984.

Year class	No. of fish	Mean calculated total length (in) at each annulus								
		1	2	3	4	5	6	7	8	9
1975	1	6.1(2.9)	9.0(3.2)	12.2(3.3)	15.5(2.2)	17.7(2.1)	19.8(1.5)	21.3(1.2)	22.5(1.2)	23.6
1976	2	6.0(3.4)	9.3(2.7)	12.0(2.3)	14.3(1.9)	16.3(1.8)	18.0(1.0)	19.0(1.3)	20.4	
1977	6	5.2(2.9)	8.1(2.6)	10.7(2.5)	13.2(2.1)	15.3(1.5)	16.8(1.5)	18.3		
1978	25	5.6(2.9)	8.5(2.7)	11.2(2.5)	13.7(1.6)	15.3(1.8)	17.1			
1979	45	5.4(2.9)	8.3(3.1)	11.4(2.0)	13.4(2.1)	15.5				
1980	32	5.6(3.3)	8.9(2.2)	11.1(2.9)	14.0					
1981	53	6.1(2.3)	8.4(3.5)	11.9						
1982	24	5.3(4.2)	9.5							
1983	16	7.0								
Grand mean		5.8(3.0)	8.6(3.0)	11.5(2.4)	13.7(2.0)	15.5(1.8)	17.2(1.4)	18.8(1.3)	21.1(1.2)	23.6
No. fish		204	188	164	111	79	34	9	3	1

Table 11. Calculated mean lengths (in) at each annulus and mean annual growth increments for male walleye, Lake of the Woods, Minnesota, 1984.

Year class	No. of fish	Mean calculated total length (in) at each annulus									
		1	2	3	4	5	6	7	8	9	10
1974	1	5.8(3.3)	9.1(3.0)	12.2(2.0)	14.1(1.7)	15.9(1.2)	17.0(0.9)	17.9(0.5)	18.4(1.0)	19.4(0.6)	20.0
1975	2	6.6(3.3)	9.9(2.0)	11.9(2.0)	13.9(1.8)	15.7(1.3)	17.0(1.2)	18.2(0.8)	19.0(0.8)	19.8	
1976	6	5.3(3.0)	8.3(2.4)	10.6(1.9)	12.5(1.8)	14.3(1.3)	15.6(1.0)	16.5(1.1)	17.6		
1977	8	6.1(2.9)	9.0(2.4)	11.4(2.0)	13.4(1.5)	14.9(1.2)	16.1(1.2)	17.3			
1978	15	5.3(2.8)	8.1(2.9)	11.0(2.6)	13.6(1.5)	16.6(0.0)	16.6				
1979	47	5.2(3.0)	8.2(3.1)	11.3(1.8)	13.1(1.9)	15.0					
1980	27	5.6(3.1)	8.7(2.1)	10.8(2.7)	13.5						
1981	32	6.1(2.5)	8.6(3.3)	11.9							
1982	4	5.4(4.3)	9.7								
Grand mean		5.6(2.9)	8.5(2.8)	11.3(2.2)	13.3(1.8)	15.0(1.4)	16.3(1.1)	17.2(1.0)	18.0(0.9)	19.7(0.6)	20.0
No. fish		142	142	138	106	79	32	17	9	3	1

Table 12. Calculated mean length (in) at each annulus for male and female walleye, Lake of the Woods, Minnesota, 1968-70^a and 1983-84.

	Number in sample	Mean calculated length at each annulus													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
MALES															
1983	124	5.4	8.3	10.9	13.1	14.7	16.0	16.9	17.3						
1984	142	5.6	8.5	11.3	13.3	15.0	16.3	17.2	18.0	19.7	20.0				
Grand mean															
1983-84	266	5.5	8.4	11.2	13.2	14.9	16.2	17.0	17.8	19.7	20.0				
1968-70	163	6.8	9.2	11.5	13.7	14.9	15.9	17.1	17.8	18.6	19.2				
FEMALES															
1983	95	5.6	8.5	11.2	13.4	15.0	16.5	17.5	19.4	20.9	21.2	23.7	24.5	24.9	25.4
1984	204	5.8	8.6	11.5	13.7	15.5	17.2	18.8	21.1	23.6					
Grand mean															
1983-84	299	5.7	8.6	11.4	13.5	15.3	16.9	17.9	20.0	21.8	21.2	23.7	24.5	24.9	25.4
1968-70	175	6.9	9.2	11.7	13.9	15.5	16.9	18.0	19.7	20.6	22.5				

^a From Schupp (1974).

Table 13. Age-length frequency of walleye captured in September assessment gill nets, Lake of the Woods, Minnesota, 1980.

Total length (in)	Total no.	Age							
		1	2	3	4	5	6	7	8
6.0 - 6.9	3	3							
7.0 - 7.9	29	29							
8.0 - 8.9	52	52							
9.0 - 9.9	40	17	23						
10.0 - 10.9	71		71						
11.0 - 11.9	77		77						
12.0 - 12.9	52		9	43					
13.0 - 13.9	81		11	43	27				
14.0 - 14.9	166			6	154	6			
15.0 - 15.9	107			4	87	16			
16.0 - 16.9	78				25	35	14	4	
17.0 - 17.9	47				4	14	18	11	
18.0 - 18.9	26						17	6	3
19.0 - 19.9	4						4		
20.0 - 20.9	5							5	
Total number	836	101	191	96	297	71	53	26	3
Mean total length (in)	13.4	8.3	11.0	13.2	14.9	16.3	17.7	18.2	18.5

Table 14. Age-length frequency of walleye captured in September assessment gill nets, Lake of the Woods, Minnesota, 1981.

Total length (in)	Total no.	Age							
		0	1	2	3	4	5	6	7
6.0 - 6.9	47	47							
7.0 - 7.9	14	14							
8.0 - 8.9	15		15						
9.0 - 9.9	30		21	9					
10.0 - 10.9	44		10	34					
11.0 - 11.9	69			54	15				
12.0 - 12.9	67			19	48				
13.0 - 13.9	116			3	97	16			
14.0 - 14.9	88				55	29	4		
15.0 - 15.9	57				2	30	25		
16.0 - 16.9	81					9	69	3	
17.0 - 17.9	68						34	27	7
18.0 - 18.9	26						2	17	7
19.0 - 19.9	6							3	3
Total number	729	61	46	119	217	84	134	50	17
Mean total length (in)	13.4	6.7	9.4	11.3	13.4	14.9	16.5	17.9	18.3

Table 15. Age-length frequency of walleye captured in September assessment gill nets, Lake of the Woods, Minnesota, 1982.

Total length (in)	Total no.	Age							
		1	2	3	4	5	6	7	8
11.0 - 11.9	24			24					
12.0 - 12.9	44			35	9				
13.0 - 13.9	56			22	34				
14.0 - 14.9	40			10	30				
15.0 - 15.9	26				13	13			
16.0 - 16.9	20					20			
17.0 - 17.9	18				3	9	6		
18.0 - 18.9	9						9		
19.0 - 19.9	4					1	3		
20.0 - 20.9	0								
21.0 - 21.9	1								1
Total number	242			91	89	43	18		1
Mean total length (in)	14.4			12.7	14.2	16.5	18.3		21.0

Table 16. Age-length frequency of walleye captured in September assessment gill nets, Lake of the Woods, Minnesota, 1983.

Total length (in)	Total no.	Age												
		0	1	2	3	4	5	6	7	8	9	10	14	
5.0 - 5.9	1	1												
6.0 - 6.9	50	50												
7.0 - 7.9	55	55												
8.0 - 8.9	33	3	30											
9.0 - 9.9	61		61											
10.0 - 10.9	32		22	6	3									
11.0 - 11.9	72		5	62	5									
12.0 - 12.9	66			28	38									
13.0 - 13.9	72			6	41	22	3							
14.0 - 14.9	58				18	33	8							
15.0 - 15.9	79				6	40	27	3	3					
16.0 - 16.9	62					25	31	4	2					
17.0 - 17.9	26					3	15	3	4	1				
18.0 - 18.9	15						2	2	8	3				
19.0 - 19.9	8						1	2	4	1				
20.0 - 20.9	4								1	2	1			
21.0 - 21.9	0													
22.0 - 22.9	0													
23.0 - 23.9	0													
24.0 - 24.9	0													
25.0 - 25.9	1												1	
Total number	694	109	118	102	111	123	87	14	22	7	1		1	
Mean total length (in)	12.4	7.1	9.5	11.8	13.3	15.1	16.2	17.2	18.0	19.1	20.5		25.6	

Table 17. Age-length frequency of walleye captured in September assessment gill nets, Lake of the Woods, Minnesota, 1984.

Total length (in)	Total no.	Age									
		1	2	3	4	5	6	7	8	9	10
7.0 - 7.9	24	24									
8.0 - 8.9	48	46	2								
9.0 - 9.9	177	165	12								
10.0 - 10.9	103	62	38								
11.0 - 11.9	83	3	75	5							
12.0 - 12.9	73		40	33							
13.0 - 13.9	125		13	99	10	3					
14.0 - 14.9	116			77	31	8					
15.0 - 15.9	82			14	32	31	3	2			
16.0 - 16.9	108			2	24	72	4	6			
17.0 - 17.9	61				7	30	21	1	2		
18.0 - 18.9	27				2	6	13	2	3	1	
19.0 - 19.9	7						3	3	1		
20.0 - 20.9	9					1	4	3			1
21.0 - 21.9	3							1	2		
22.0 - 22.9	1									1	
23.0 - 23.9	0										
24.0 - 24.9	1									1	
Total no.	1,049	300	180	233	106	151	48	18	8	3	
Mean total length (in)	13.0	9.4	11.5	13.8	15.4	16.4	17.9	18.1	19.1	21.8	20.5

Table 18. Year-class distribution of walleye from experimental gill nets, expressed as total number and percentage of catch, Lake of the Woods, Minnesota, 1968-70^a and 1980-84.

Netting period	No. lifts	Total no. and percent walleye	Year-class											
			1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959
<u>1968-70</u>														
July, 1968	40	%				1.2	57.6	0.6	14.5	20.3	3.3	1.2	0.6	0.6
		330				4	190	2	48	67	11	4	2	2
Sept, 1968	36	%				0.9	70.7	0.9	10.8	12.0	2.3	0.3	1.4	0.9
		351				3	248	3	38	42	8	1	5	3
July, 1969	52	%				1.3	86.4	0.2	5.9	4.7	0.6	0.6	0.2	
		472				6	408	1	28	22	3	3	1	
Sept, 1969	43	%		0.5	1.1	2.0	81.0	2.5	3.7	4.7	2.0	1.8	0.3	0.5
		653		3	7	13	529	16	24	31	13	12	2	3
July, 1970	40	%		3.6	1.5	1.9	85.9	1.0	3.2	1.7	0.5	0.7		
		412		15	6	8	354	4	13	7	2	3		
Sept, 1970	20	%	0.9	6.5	1.8	2.5	76.0	1.1	5.5	4.0	1.0	0.6	0.1	
		816	7	53	15	20	620	9	45	33	8	5	1	
<u>1980-84</u>														
			1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972
July, 1980	45	%					9.8	26.4	9.5	32.3	10.0	11.0	1.5	
		409					40	108	39	132	41	45	6	
Sept, 1980	36	%					12.1	22.8	11.5	35.5	8.5	6.3	3.1	0.4
		836					101	191	96	297	71	53	26	3
July, 1981	52	%				6.5	18.5	37.3	11.3	18.0	4.3	4.5		
		400				26	74	149	45	72	17	18		
Sept, 1981	48	%			8.4	6.3	16.3	29.8	11.5	18.4	6.9	2.3		0.3
		729			61	46	119	217	84	134	50	17		2
July, 1982	51	%				15.1	31.5	35.1	9.3	7.1	2.2			
		410				62	129	144	38	29	9			
Sept, 1982	52	%					37.6	36.8	17.8	7.4		0.4		
		242					91	89	43	18		1		
July, 1983	52	%		1.3	28.6	11.2	24.6	18.8	3.6		0.4	2.7		
		224		3	64	25	55	42	8		1	6		
Sept, 1983	52	%	15.7	17.0	14.7	16.0	17.7	12.5	2.0	3.2	1.0	0.1		
		694	109	118	102	111	123	87	14	22	7	1		
July, 1984	52	%	24.2	11.5	31.3	10.3	13.9	6.0	2.4	0.6	0.4			
		496	120	57	155	51	69	30	12	3	2			
Sept, 1984	52	%	28.6	17.2	22.2	10.1	14.4	4.6	1.7	0.8	0.3	0.1		
		1,049	300	180	233	106	151	48	18	8	3	1		

^a From Schupp (1974).

Table 19. Age compositions of assessment nets from 1980-1984.

Date	No. sets	Age										Total
		0	1	2	3	4	5	6	7	8	9	
1980												
July	45	0	40	108	39	132	41	45	6	0	0	411
Sept.	36	0	101	191	96	297	71	53	26	3	0	838
Total	81	0	141	299	135	429	112	98	32	3	0	1,249
1981												
July	52	0	26	74	149	45	72	17	18	0	0	401
Sept.	48	61	46	119	217	84	134	49	17	0	2	729
Total	100	61	72	193	366	129	206	66	35	0	2	1,130
1982												
July	51	0	0	62	129	144	38	29	9	0	0	411
Sept.	52	0	0	0	91	89	43	18	0	0	0	241
Total	103	0	0	62	220	233	81	47	9	0	0	652
1983												
July	52	3	64	25	55	42	8	0	1	6	0	204
Sept.	52	109	118	102	111	123	87	14	22	7	1	694
Total	104	112	182	127	166	165	95	14	23	13	1	898
1984												
July	52	0	120	57	155	51	69	30	12	3	2	499
Sept.	52	0	266	190	227	94	195	51	10	7	2	1,042
Total	104	0	386	247	382	145	264	81	22	10	4	1,541
Total	492	173	781	928	1269	1101	758	306	121	26	7	5,470

Table 20. U.S. commercial and open-water sport walleye harvest in Lake of the Woods, 1968-70^a and 1982-84.

Year	Sport	Commercial	Total
1968	471,677	105,422	577,099
1969	276,841	79,086	355,927
1970	315,841	100,785	416,626
TOTAL	1,064,359	285,293	1,349,652
1982	266,927	157,074	424,001
1983	302,968	184,975	487,943
1984	339,890	160,261	500,151
TOTAL	909,785	502,310	1,412,095

^a From Schupp (1974).

Table 21. Estimated open-water angling effort and harvest by catch location and fishing craft for Lake of the Woods, 1982.

	Minnesota	Ontario	Manitoba	Rainy River	Total
Small boat trips	28,811	1,840	72	2,863	33,586
Pleasure craft trips	17,060	1,386	1,205	1,303	20,954
Charter launch trips	1,532	698	300	93	2,623
Man-trips	146,611	13,940	6,017	10,910	177,478
Small boats	81,565	5,152	196	6,750	93,663
Pleasure craft	56,475	4,755	4,906	3,702	69,028
Charter launch	8,571	4,033	1,725	458	14,787
Manhours	552,575	73,570	34,919	36,469	697,533
Small boats	293,998	22,540	1,006	19,292	336,836
Pleasure craft	209,258	22,472	24,210	14,475	270,415
Charter launch	49,319	28,558	9,703	2,702	90,282
Total catch (no):	243,324	39,050	19,698	9,921	311,993
Northern pike	7,953	667	238	1,327	10,185
Small boats	5,618	308	3	839	6,768
Pleasure craft	1,948	240	195	453	2,836
Charter launch	387	119	40	35	581
Yellow perch	7,601	716	297	725	9,339
Small boats	5,133	463	9	518	6,123
Pleasure craft	2,033	51	201	172	2,457
Charter launch	435	202	87	35	759
Sauger	25,615	2,559	902	1,013	30,089
Small boats	15,025	1,278	9	666	16,978
Pleasure craft	7,824	734	673	312	9,543
Charter launch	2,766	547	220	35	3,568
Walleye	202,155	35,108	18,261	6,856	262,380
Small boats	112,817	13,310	344	4,369	130,840
Pleasure craft	70,051	11,670	12,537	2,138	96,396
Charter launch	19,287	10,128	5,380	349	35,144
Total catch (lb):	250,035	39,748	20,032	11,976	321,791
Northern pike	23,681	1,988	710	3,949	30,328
Yellow perch	4,203	396	164	401	5,164
Sauger	16,492	1,648	580	652	19,372
Walleye	205,659	35,716	18,578	6,974	266,927

Table 22. Estimated open-water angling effort and harvest by catch location and fishing craft for Lake of the Woods, 1983.

	Minnesota	Ontario	Manitoba	Rainy River	Totals
Small boat trips	17,481	874	1,091	2,564	22,010
Pleasure craft trips	17,219	3,537	2,987	1,296	25,039
Charter launch trips	1,108	883	1,003	941	3,935
Man-trips	109,443	17,663	18,868	14,789	160,763
Small boats	49,053	2,017	3,709	6,157	60,936
Pleasure craft	54,433	10,926	9,542	4,032	78,933
Charter launch	5,957	4,720	5,617	4,600	20,894
Manhours	421,974	95,247	114,432	52,520	684,173
Small boats	187,104	7,525	28,377	18,056	241,062
Pleasure craft	204,457	52,927	52,227	12,740	322,351
Charter launch	30,413	34,795	33,828	21,724	120,760
Total catch (no):	181,439	65,820	66,569	21,662	335,490
Northern pike	6,984	589	896	1,495	9,964
Small boat	4,434	67	182	630	5,313
Pleasure craft	2,351	228	547	447	3,573
Charter launch	199	294	167	418	1,078
Yellow perch	5,323	3,244	1,132	614	10,313
Small boats	2,876	0	273	391	3,540
Pleasure craft	2,173	2,814	274	223	5,484
Charter launch	274	430	585	0	1,289
Sauger	27,089	5,018	4,870	2,128	39,105
Small boats	11,010	269	546	456	12,281
Pleasure craft	14,560	3,119	2,736	626	21,041
Charter launch	1,519	1,630	1,588	1,046	5,783
Walleye	142,043	56,969	59,671	17,425	276,108
Small boats	66,119	6,790	13,001	5,889	91,799
Pleasure craft	63,736	35,598	26,359	3,799	129,492
Charter launch	12,188	14,581	20,311	7,737	54,817
Total catch (lb):	195,650	70,878	67,748	27,627	361,903
Northern pike	18,853	1,678	3,067	4,004	27,602
Yellow perch	3,001	1,888	735	330	5,954
Sauger	17,334	3,348	3,271	1,425	25,378
Walleye	156,462	63,964	60,675	21,868	302,969

Table 23. Estimated open-water angling effort and harvest by catch location and fishing craft for Lake of the Woods, 1984.

	Minnesota	Ontario	Manitoba	Rainy River	Totals
Small boat trips	19,493	904		1,403	21,800
Pleasure craft trips	19,277	3,043	3,336	2,307	27,963
Charter launch trips	1,961	1,177	1,872	294	5,304
Man-trips	124,994	17,960	23,007	13,281	179,242
Small boats	54,526	2,651		3,337	60,514
Pleasure craft	59,797	9,566	10,946	8,315	88,624
Charter launch	10,671	5,743	12,061	1,629	30,104
Manhours	504,477	90,181	129,957	39,554	764,369
Small boats	215,205	10,884		8,665	234,954
Pleasure craft	229,461	48,304	61,495	24,469	363,729
Charter launch	59,811	30,993	68,462	6,420	165,686
Total catch (no):	213,243	49,894	76,137	17,321	356,595
Northern pike	5,020	1,725	607	4,960	11,997
Small boats	3,034	600		1,560	5,194
Pleasure craft	1,690	594	257	2,297	4,838
Charter launch	296	531	350	1,103	1,965
Yellow perch	9,115	291	846	582	10,834
Small boats	3,997	105	0	254	4,356
Pleasure craft	3,703	57	773	328	4,861
Charter launch	1,415	129	73	0	1,617
Sauger	24,542	1,967	1,747	114	28,370
Small boats	7,962	0	0	61	8,023
Pleasure craft	10,941	691	995	53	12,680
Charter launch	5,639	1,276	752	0	7,667
Walleye	174,566	45,911	72,937	11,665	305,079
Small boats	75,661	4,674		4,591	84,926
Pleasure craft	74,071	24,331	32,532	5,824	136,758
Charter launch	24,834	16,906	40,405	1,250	83,395
Total catch (lb):	228,767	59,222	81,889	24,537	418,952
Northern pike	12,110	4,526	2,173	11,319	30,128
Yellow perch	4,593	215	729	381	5,918
Sauger	15,672	1,485	1,225	97	18,479
Walleye	196,392	52,996	77,762	12,740	339,890

Table 24. Estimated open-water sport fishing effort and harvest, Lake of the Woods, 1982.

	Minnesota	Ontario	Manitoba	Rainy River	Total
Total manhours	552,575	73,570	34,919	36,469	697,533
	243,479	39,140	19,697	9,945	312,261
CPUE (fish/mh)	0.44	0.53	0.56	0.27	0.45
Lake sturgeon	15	0	0	0	15
Mooneye	0	0	0	0	0
Rainbow trout	0	0	0	0	0
Northern pike	7,953	667	238	1,327	10,185
Bullhead	0	0	0	0	0
Burbot	0	0	0	0	0
Rock bass	26	0	0	0	26
Smallmouth bass	114	90	0	25	229
Yellow perch	7,601	716	296	725	9,338
Sauger	25,615	2,559	902	1,013	30,089
Walleye	202,155	35,108	18,261	6,855	262,379
Total catch (lb)	250,588	39,888	20,032	12,014	322,522
Lake sturgeon	397	0	0	0	397
Mooneye	0	0	0	0	0
Rainbow trout	0	0	0	0	0
Northern pike	23,681	1,988	710	3,949	30,328
Bullhead	0	0	0	0	0
Burbot	0	0	0	0	0
Rock bass	20	0	0	0	20
Smallmouth bass	136	140	0	38	314
Yellow perch	4,203	396	164	401	5,164
Sauger	16,492	1,648	580	652	19,372
Walleye	205,659	35,716	18,578	6,974	266,927

Table 25. Estimated open-water sport fishing effort and harvest, Lake of the Woods, 1983.

	Minnesota	Ontario	Manitoba	Rainy River	Total
Total manhours	421,974	95,247	114,432	52,520	684,173
Total catch (no)	181,713	66,017	66,569	21,789	336,088
CPUE (fish/mh)	0.43	0.69	0.58	0.42	0.49
Lake sturgeon	12	0	0	0	12
Mooneye	30	0	0	0	30
Rainbow trout	16	0	0	0	16
Northern pike	6,984	589	896	1,495	9,964
Bullhead	27	0	0	0	27
Burbot	16	0	0	0	16
Rock bass	31	0	0	0	31
Smallmouth bass	142	197	0	127	466
Yellow perch	5,323	3,244	1,132	614	10,313
Sauger	27,089	5,018	4,870	2,128	39,105
Walleye	142,043	56,969	56,671	17,425	276,108
Total catch (lb)	196,175	71,174	67,748	27,816	362,913
Lake sturgeon	187	0	0	0	187
Mooneye	30	0	0	0	30
Rainbow trout	12	0	0	0	12
Northern pike	18,853	1,678	3,067	4,004	27,602
Bullhead	27	0	0	0	27
Burbot	32	0	0	0	32
Rock bass	23	0	0	0	23
Smallmouth bass	214	296	0	190	700
Yellow perch	3,001	1,888	735	330	5,954
Sauger	17,334	3,348	3,271	1,425	25,378
Walleye	156,462	63,964	60,675	21,867	302,968

Table 26. Estimated open-water sport fishing effort and harvest, Lake of the Woods, 1984

	Minnesota	Ontario	Manitoba	Rainy River	Total
Total manhours	504,477	90,181	129,957	39,554	764,169
Total catch (no)	213,528	49,988	76,137	17,789	357,442
CPUE (fish/mh)	0.42	0.55	0.59	0.45	0.47
Lake sturgeon	22	0	0	0	22
Mooneye	0	0	0	0	0
Rainbow trout	0	0	0	0	0
Northern pike	5,020	1,721	607	4,959	12,307
Bullhead	0	0	0	0	0
Burbot	0	0	0	0	0
Rock bass	59	0	0	97	156
Smallmouth bass	205	97	0	372	674
Yellow perch	9,114	292	846	582	10,834
Sauger	24,542	1,967	1,747	114	28,370
Walleye	174,566	45,911	72,937	11,665	305,079
Total catch (lb)	229,576	59,368	81,889	25,192	396,025
Lake sturgeon	457	0	0	0	457
Mooneye	0	0	0	0	0
Rainbow trout	0	0	0	0	0
Northern pike	12,110	4,526	2,173	11,319	30,128
Bullhead	0	0	0	0	0
Burbot	0	0	0	0	0
Rock bass	44	0	0	72	116
Smallmouth bass	308	146	0	583	1,037
Yellow perch	4,593	215	729	381	5,918
Sauger	15,672	1,485	1,225	97	18,479
Walleye	196,392	52,996	77,762	12,740	339,890

Table 27. Estimated average annual open-water sport fishing effort and harvest by catch location, Lake of the Woods, 1982-84.

	Minnesota	Ontario	Manitoba	Rainy River	Totals
Total manhours	493,008	86,333	93,102	42,848	715,292
Total catch (no.)	212,907	51,715	54,134	16,508	335,264
CPUE (fish/h)	0.43	0.60	0.58	0.39	0.47
Lake sturgeon	16	0	0	0	16
Mooneye	10	0	0	0	10
Rainbow trout	5	0	0	0	5
Northern pike	6,652	992	580	2,594	10,819
Bullhead	9	0	0	0	9
Burbot	5	0	0	0	5
Rock bass	39	0	0	32	71
Smallmouth bass	154	128	0	175	457
Yellow perch	7,346	1,417	758	640	10,162
Sauger	25,749	3,181	2,506	1,085	32,521
Walleye	172,921	45,996	50,290	11,982	281,189
Total catch (lb)	225,446	56,810	21,674	21,674	360,486
Lake sturgeon	347	0	0	0	347
Mooneye	10	0	0	0	10
Rainbow trout	4	0	0	0	4
Northern pike	18,215	2,731	1,983	6,424	29,353
Bullhead	9	0	0	0	9
Burbot	11	0	0	0	11
Rock bass	29	0	0	24	53
Smallmouth bass	219	194	0	270	684
Yellow perch	3,932	833	543	371	5,679
Sauger	16,499	2,160	1,692	725	21,076
Walleye	186,171	50,892	52,338	13,860	303,262

Table 28. Catch rates expressed as fish/manhour(mh) by catch location and fishing craft for Lake of the Woods walleye, 1982, 1983, and 1984.

	Minnesota no/mh	Ontario no/mh	Manitoba no/mh	Rainy River no/mh	Totals no/mh
			<u>1982</u>		
Small boats	0.38	0.59	0.34	0.23	0.39
Pleasure craft	0.34	0.32	0.52	0.15	0.36
Chartered launch	0.39	0.36	0.56	0.13	0.39
Totals	0.37	0.48	0.52	0.19	0.38
			<u>1983</u>		
Small boats	0.35	0.90	0.46	0.33	0.38
Pleasure craft	0.31	0.67	0.50	0.30	0.40
Chartered launch	0.40	0.42	0.60	0.3	0.45
Totals	0.34	0.69	0.52	0.33	0.40
			<u>1984</u>		
Small boats	0.35	0.43	0.53	0.53	0.36
Pleasure craft	0.32	0.50	0.53	0.24	0.38
Chartered launch	0.42	0.55	0.59	0.19	0.50
Totals	0.35	0.51	0.56	0.30	0.40
			<u>Average</u>		
Small boats	0.36	0.64	0.40	0.36	0.38
Pleasure craft	0.32	0.50	0.52	0.23	0.38
Chartered craft	0.40	0.44	0.58	0.23	0.45
Totals	0.36	0.53	0.50	0.27	0.40

Table 29. Estimated average annual open-water angling effort and harvest by catch location and fishing craft for Lake of the Woods, 1968^a and 1982-84.

	Minnesota		Ontario		Manitoba		Rainy River		Totals	
	1968-70	1982-84	1968-70	1982-84	1968-70	1982-84	1968-70	1982-84	1968-70	1982-84
Small boat trips	32,091	21,928	719	1,206	600	388	7,535	2,277	40,945	25,799
Pleasure craft trips		17,852		2,655		2,509		1,635		24,651
Charter launch trips	1,585	1,534	1,165	919	336	1,058	0	443	3,086	3,954
Man-trips	112,097	127,017	8,615	16,521	4,420	15,965	19,036	12,994	144,168	172,497
Small boats	103,486	61,715	2,626	3,273	2,289	1,302	19,036	5,415	127,437	71,705
Pleasure craft		56,902		8,416		8,195		5,350		78,863
Charter launch	8,611	8,400	5,989	4,832	2,131	6,468	0	2,229	16,731	21,929
Manhours	462,217	493,008	53,644	86,333	21,243	93,102	74,322	42,848	611,426	715,291
Small boats	408,512	232,102	12,093	13,650	9,631	9,794	74,322	15,338	504,558	270,884
Pleasure		214,392		41,234		45,977		17,228		318,831
Charter launch	53,705	46,514	41,551	31,449	11,612	37,331	0	10,282	106,868	125,576
Total catch (no)	277,547	212,668	40,804	51,589	25,099	54,134	32,317	16,405	375,767	334,796
Northern pike	8,545	6,652	308	994	167	581	1,967	2,698	10,987	10,925
Small boats	7,971	4,362	43	325	82	62	1,967	1,009	10,063	5,758
Pleasure craft		1,996		354		333		1,066		3,749
Charter launch	574	294	265	315	85	186	0	623	924	1,418
Yellow perch	10,157	7,346	849	1,417	830	758	633	641	12,469	10,162
Small boats	9,421	4,002	83	189	430	94	633	388	10,568	4,673
Pleasure craft		2,636		974		416		241		4,267
Charter launch	736	708	766	254	399	248	0	12	1,901	1,222
Sauger	38,205	25,748	4,025	3,182	1,733	2,506	5,437	1,084	49,400	32,520
Small boats	36,095	11,332	1,158	516	383	185	5,437	394	43,073	12,427
Pleasure craft		11,108		1,515		1,468		330		14,421
Charter launch	2,110	3,308	2,867	1,151	1,350	853	0	360	6,327	5,672
Walleye	220,640	172,922	35,622	45,996	22,369	50,289	24,280	11,982	302,911	281,189
Small boats	184,470	84,866	5,928	8,258	12,305	4,448	24,280	4,950	226,983	102,522
Pleasure craft		69,286		23,866		23,809		3,920		120,881
Charter launch	36,170	18,770	29,694	13,872	10,064	22,032	0	3,112	75,928	57,786
Total catch (lb)	322,703	224,817	49,671	56,616	28,350	56,556	32,983	21,380	433,707	359,369
Northern pike	27,326	18,215	826	2,731	466	1,983	3,632	6,424	32,250	29,353
Yellow perch	7,153	3,932	595	833	461	543	395	371	8,604	5,679
Sauger	30,077	16,499	3,187	2,160	1,377	1,692	3,426	725	38,067	21,076
Walleye	258,147	186,171	45,063	50,892	26,046	52,338	25,530	13,860	354,786	303,261

^a From Schupp (1974).

Table 30. Relative fishing effort on Lake of the Woods by catch location and fishing craft^a expressed as total manhours (mh) and percentage of total manhours (%) for 1968-70^b and 1982-84.

	Minnesota		Ontario		Manitoba		Rainy River		Totals	
	1968-70 mh	1982-84 mh	1968-70 mh	1982-84 mh	1968-70 mh	1982-84 mh	1968-70 mh	1982-84 mh	1968-70 (% effort by craft)	1982-84 (% effort by craft)
Small boats (% by location)	408,512	232,102 (85.7)	12,093	13,650 (5.0)	9,631	9,794 (3.6)	74,322	15,338 (5.7)	504,558	270,884 (37.9)
Pleasure craft (% by location)		214,392 (67.2)		41,234 (12.9)		45,978 (14.4)		17,228 (5.4)		318,832 (44.6)
Combined totals (% by location)	408,512 (81.0)	446,494 (75.7)	12,093 (2.4)	54,884 (9.3)	9,631 (1.9)	55,771 (9.5)	74,322 (14.7)	32,566 (5.5)	504,558 (82.5)	589,715 (82.4)
Chartered launches (% by location)	53,705 (50.3)	46,514 (37.0)	41,551 (38.1)	31,449 (25.0)	11,612 (10.9)	37,331 (29.7)	-----	10,282 (8.2)	106,868 (17.5)	125,576 (17.6)
Totals	462,217	493,008	53,644	86,333	21,243	93,103	74,322	42,848	611,426	715,292

^a Only combined data for small boats and launches was available for 1968-70.

^b From Schupp (1974).

Table 31. Estimated effort (mh), harvest (lb) and catch rates (CPUE) for the winter fishery, Lake of the Woods, Minnesota, 1967-70^a and 1982-83.

	1967-70	1982-83
Total mh	42,951	401,467
Total catch (no)		
Sauger	2,742	277,205
Walleye	4,198	41,843
Total catch (lb)		
Sauger	1,678	163,551
Walleye	4,040	35,985
CPUE (fish/mh)		
Sauger	0.06	0.68
Walleye	0.10	0.11
Mean weight (lb)		
Sauger	0.61	0.59
Walleye	0.96	0.86

^a From Schupp (1974).

Table 32. Estimated average annual open-water sport fishing effort by catch location for Lake of the Woods, 1968-70^a and 1982-84.

	Total boat-trips		Total man-trips		Total manhours	
	1968-70	1982-84	1968-70	1982-84	1968-70	1982-84
Minnesota	32,091	41,314	109,924	127,018	462,217	493,009
Ontario	791	4,787	8,615	16,521	53,644	86,333
Manitoba	600	3,955	4,420	15,964	21,243	93,103
Rainy River	6,165	4,355	19,036	12,993	74,322	42,848
Minnesota totals	38,256	45,669	128,960	140,011	536,539	535,857
Totals	39,575	54,411	141,995	172,496	611,426	715,292

^a From Schupp (1974).

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