

LAKE JOHANNA - 62-0078 - 200 Acres

Fishing use of Lake Johanna was estimated to be 11,073 hours (55.4 hrs/acre) for the survey period. Boat angling was the most popular type of fishing noted, comprising 76% of the total effort. Weekends were a more popular time to fish than weekdays on this lake. Weekend angling was estimated to be 6,978 hours - 63% of the total.

Table XXIII.

Table XXIII
Fishing Pressure (Angler Hours)
Lake Johanna - Ramsey County

	BOAT	PIER	BANK	TOTAL
WEEKDAY	2,746	N.A.	1,185	3,931
SE	668		399	
WEEKEND	5,630	N.A.	1,348	6,978
SE	1,346		338	
TOTAL	8,377	N.A.	2,533	10,910
SE	1,503		998	
Hrs/Acre	41.9		12.7	54.5

Anglers interviewed on Lake Johanna caught mostly sunfish. Eighty eight percent (88%) of the estimated catch was sunfish species. Largemouth bass were the next most common species in the catch, contributing 8% of the total number of fish caught. It was interesting to note that Lake Johanna anglers caught more tiger muskie (137) than northern pike (77). Table XXIV.

Table XXIV
Total Catch Numbers and Numbers per Acre
All Anglers

Spp	Harvest	SE	Har per Acre	SE	Release	SE	Rel per Acre	SE	Catch	SE	Cat per Acre	SE
BLG	2359.0	1465.7	11.79	7.33	3263.9	1357.4	16.32	6.79	5622.9	2255.0	28.11	11.27
CAP	0.0	0.0	0.00	0.00	34.2	30.4	0.17	0.15	34.2	30.4	0.17	0.15
CRP	0.0	0.0	0.00	0.00	68.4	60.9	0.34	0.30	68.4	60.9	0.34	0.30
LMB	171.1	142.7	0.86	0.71	782.7	229.6	3.91	1.15	953.8	256.1	4.77	1.28
MUE	0.0	0.0	0.00	0.00	102.6	74.0	0.51	0.37	102.6	74.0	0.51	0.37
NOP	0.0	0.0	0.00	0.00	77.7	52.8	0.39	0.26	77.7	52.8	0.39	0.26
SUN	2079.5	1764.1	10.40	8.82	2173.3	1048.6	10.87	5.24	4252.8	2652.4	21.26	13.26
TME	0.0	0.0	0.00	0.00	34.2	31.6	0.17	0.16	34.2	31.6	0.17	0.16
WAE	0.0	0.0	0.00	0.00	34.2	30.4	0.17	0.15	34.2	30.4	0.17	0.15
YEP	73.7	57.8	0.37	0.29	0.0	0.0	0.00	0.00	73.7	57.8	0.37	0.29
ALL	4683.2	2247.9	23.42	11.24	6571.5	1811.0	32.86	9.06	11254.7	3553.4	56.27	17.77

Largemouth bass were the species most targeted by anglers on this lake. Forty one percent (41%) of the anglers interviewed were fishing for largemouth bass. Nearly a quarter of the anglers questioned were fishing for bluegill, and another quarter of the sample anglers were fishing for muskie. Table XXV.

Table XXV
Catch Per Angler-Hour
Targeting Anglers

Spp	Har/ AnHr	SE	Rel/ AnHr	SE	Cat/ AnHr	SE	Ang Hrs	No. Intv
BLC	0.000	---	0.000	---	0.000	---	60.8	11
BLG	0.659	0.437	1.364	0.835	2.023	1.104	70.9	14
CRP	0.000	---	0.000	---	0.000	---	4.2	1
LMB	0.065	0.066	0.177	0.059	0.197	0.062	107.3	24
MUE	0.000	0.000	0.128	0.078	0.128	0.078	44.6	11
NOP	0.000	0.000	0.000	0.000	0.000	0.000	4.4	3
PKS	0.000	---	0.000	---	0.000	---	53.5	10
SUN	0.373	0.382	1.493	0.909	1.866	0.527	20.6	4
TME	0.000	---	0.061	---	0.061	---	20.5	3
WAE	0.000	---	0.000	---	0.000	---	17.2	3
WHC	0.000	---	0.000	---	0.000	---	32.9	6
							Total	58

Recreational use of Lake Johanna was higher than fishing use. Waterskiing was the most popular activity, providing 35% of the total recreation on the lake. Runabout use was the next popular activity, providing 27% of the total non-fishing recreational use of the lake. Table XXVI.

Table XXVI
Non-Fishing Recreational Use

	Skiing	R_abouts	S_boats	P_toons	Canoe	Pdl	Boat	Other	Rec. Total	Fishing Use
Boat Hours	1,422	1,175	384	762	327	164	764	4,998		
(S.E.)	330	290	150	186	122	85	232			
Number/Boat	3.4	3.2	1.7	3.3	2.6	2.0	1.4	2.8		
User Hours	4,835	3,807	649	2,477	837	328	1,054	13,987	10,910	
Hours/Acre	24.2	19.0	3.2	12.4	4.2	1.6	5.3	69.9	54.5	

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Fishing pressure on Lake Johanna may have increased slightly over a previous estimate made in 1978 from 7,713 hours to 10,910 hours. Much of this increase could be attributed to a longer sampling period in 1994. Boat fishing appears to have become a larger portion of the total estimate. Boat fishing accounted for less than 1/2 the estimate in 1978, while the 1994 estimate had more than 3/4 boat fishing.

Recreational use of Johanna showed a larger increase. All types of recreational boating except canoeing had higher estimated use in 1994 than in 1978. The increase in fishing level is a little surprising in light of the high level of recreational boating on this lake.

It was surprising to note the absence of crappie in the harvest and the low catch of crappie. It was also interesting to observe the estimated catch of tiger muskie was higher than the estimated catch of northern pike. Muskie management of this lake has apparently well received.

Another surprise was the low number of walleye caught and the low number of walleye anglers encountered. Test netting indicates fair numbers of walleye are present, but apparently walleye are not present in high enough numbers to be of interest to the anglers interviewed.