

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1998 CREEL SURVEY RESULTS

1998 WAUMPUM LAKE
 35 ACRES
 REGION 2, DISTRICT 8

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 04/01/1998 through 10/31/1998
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 201/642 = 31.3%

NUMBER OF INTERVIEWS: 393

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY					
	HOLIDAY					
	TOTAL					
SHORE	WEEKDAY	3937	3238-4635 (18%)	112	93-132 (18%)	9%
	HOLIDAY	2758	2136-3381 (23%)	79	61-97 (23%)	23%
	TOTAL	6695	5780-7610 (14%)	191	165-217 (14%)	15%
BOAT & SHORE	WEEKDAY	3937	3238-4635 (18%)	112	93-132 (18%)	9%
	HOLIDAY	2758	2136-3381 (23%)	79	61-97 (23%)	23%
	TOTAL	6695	5780-7610 (14%)	191	165-217 (14%)	15%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
714	292-1136	(59%)	.053	.000-.110 (108%)	50.41	20.40	All species
142	30-253	(79%)	.011	.000-.021 (96%)	9.99	4.04	Black crappie
517	119-914	(77%)	.035	.000-.095 (171%)	36.47	14.76	Bluegill
			****	NOT RECORDED ****			Green sunfish
56	0-284	(407%)	.007	.000-.036 (426%)	3.95	1.60	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Yellow bullhead
			****	NOT RECORDED ****			Yellow perch

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
60	22-99	(63%)	.004	.001-.007 (82%)	4.26	0.084	All species
12	2-21	(83%)	.001	.000-.002 (110%)	0.83	0.083	Black crappie
44	7-81	(83%)	.003	.000-.006 (117%)	3.13	0.086	Bluegill
			****	NOT RECORDED ****			Green sunfish
4	0-12	(173%)	.000	.000-.001 (376%)	0.30	0.076	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Yellow bullhead
			****	NOT RECORDED ****			Yellow perch

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
133	49-217	(63%)	.008	.001-.015 (82%)	3.80	0.186	All species
26	4-47	(83%)	.002	.000-.004 (110%)	0.74	0.183	Black crappie
98	16-179	(83%)	.006	.000-.012 (117%)	2.80	0.189	Bluegill
			****	NOT RECORDED ****			Green sunfish
9	0-25	(173%)	.001	.000-.003 (376%)	0.27	0.166	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Yellow bullhead
			****	NOT RECORDED ****			Yellow perch

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3921	2699-5142	(31%)	.235	.166-.303 (29%)	276.82	112.03	All species
252	111-393	(56%)	.018	.006-.030 (66%)	17.82	7.21	Black crappie
2759	1679-3839	(39%)	.156	.092-.220 (41%)	194.78	78.82	Bluegill
121	0-504	(317%)	.003	.000-.009 (162%)	8.53	3.45	Green sunfish
747	413-1081	(45%)	.056	.028-.084 (49%)	52.73	21.34	Largemouth bass
2	0-8	(318%)	.000	.000-.001 (318%)	0.14	0.06	Northern pike
1	0-6	(318%)	.000	.000-.000 (430%)	0.09	0.04	Yellow bullhead
39	0-83	(116%)	.001	.000-.003 (139%)	2.72	1.10	Yellow perch

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
467	292-641	(37%)	.033	.016-.051 (53%)	32.95	0.119	All species
28	3-53	(88%)	.002	.000-.004 (114%)	2.00	0.112	Black crappie
111	64-158	(43%)	.006	.003-.009 (55%)	7.84	0.040	Bluegill
5	0-22	(330%)	.000	.000-.000 (168%)	0.37	0.043	Green sunfish
319	149-490	(53%)	.025	.007-.043 (70%)	22.54	0.427	Largemouth bass
0	0-0	(318%)	.000	.000-.000 (430%)	0.01	0.046	Northern pike
0	0-2	(430%)	.000	.000-.000 (318%)	0.03	0.304	Yellow bullhead
2	0-6	(156%)	.000	.000-.000 (201%)	0.16	0.061	Yellow perch

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1029	644-1414	(37%)	.073	.034-.112 (53%)	29.40	0.262	All species
63	8-118	(88%)	.005	.000-.010 (114%)	1.79	0.248	Black crappie
245	141-349	(43%)	.013	.006-.020 (55%)	6.99	0.089	Bluegill
11	0-49	(330%)	.000	.000-.001 (168%)	0.33	0.095	Green sunfish
704	328-1080	(53%)	.055	.016-.094 (70%)	20.11	0.942	Largemouth bass
0	0-1	(318%)	.000	.000-.000 (430%)	0.01	0.102	Northern pike
1	0-5	(430%)	.000	.000-.000 (318%)	0.03	0.669	Yellow bullhead
5	0-13	(156%)	.000	.000-.001 (201%)	0.15	0.134	Yellow perch

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	0.0	*** undefined ***	100.0	0.0	0
SHORE	1.6	1.5-1.8 (10%)	0.4	6.5	133
BOAT & SHORE	1.6	1.5-1.8 (10%)	0.4	6.5	133
MILES TRAVELED	7.9	6.8-9.1 (14%)	1	200	389
SUCCESS RATING (1-10)	2.6	2.4-2.9 (10%)	1	10	367

*0 samples were from split interviews of completed trips.
33.8% of all 393 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 1 out of 393 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS										
SHORE INTERVIEWS	226	117	35	10	3		2			

Table 10. Number of interviews (and %) per species sought for all interviews.

202 (51.4%)	ANY	All species
17 (4.3%)	BLC	Black crappie
54 (13.7%)	BLG	Bluegill
2 (0.5%)	CCF	Channel catfish
1 (0.3%)	GSF	Green sunfish
113 (28.8%)	LMB	Largemouth bass
3 (0.8%)	YEP	Yellow perch

