

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2005 CREEL SURVEY RESULTS

2005 LAKE OF THE WOODS
 25 ACRES
 REGION 3, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2005 through 10/31/2005
 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: 283/693 = 40.8%

NUMBER OF INTERVIEWS: 1733

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	815	589-1042 (28%)	32	23-41 (28%)	17%
	HOLIDAY	1009	775-1243 (23%)	40	31-49 (23%)	37%
	TOTAL	1825	1499-2150 (18%)	72	59-85 (18%)	28%
SHORE	WEEKDAY	6290	5094-7485 (19%)	250	202-297 (19%)	20%
	HOLIDAY	8177	6655-9699 (19%)	324	264-385 (19%)	33%
	TOTAL	14467	12603-16331 (13%)	574	500-648 (13%)	28%
BOAT & SHORE	WEEKDAY	7105	5888-8321 (17%)	282	234-330 (17%)	20%
	HOLIDAY	9187	7649-10724 (17%)	365	304-426 (17%)	34%
	TOTAL	16291	14399-18184 (12%)	646	571-722 (12%)	28%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
2597	1782-3412 (31%)	.106	.069-.143 (35%)	254.63	103.05	All species
204	38-371 (81%)	.028	.004-.052 (85%)	20.03	8.11	Black crappie
675	345-1005 (49%)	.023	.004-.042 (82%)	66.18	26.78	Bluegill
		****	NOT RECORDED ****			Brown bullhead
		****	NOT RECORDED ****			Carp
		****	NOT RECORDED ****			Unidentified catfish
293	164-422 (44%)	.018	.003-.034 (84%)	28.72	11.62	Channel catfish
21	0-87 (318%)	.001	.000-.002 (318%)	2.05	0.83	Crappie spp.
2	0-6 (220%)	.000	.000-.000 (223%)	0.19	0.08	Freshwater drum
		****	NOT RECORDED ****			Green sunfish
		****	NOT RECORDED ****			Gizzard shad
63	13-112 (80%)	.002	.000-.004 (102%)	6.14	2.49	Largemouth bass
2	0-6 (236%)	.000	.000-.000 (236%)	0.16	0.07	Muskellunge
1009	300-1718 (70%)	.012	.004-.020 (63%)	98.94	40.04	Rainbow trout
51	1-102 (98%)	.002	.000-.004 (115%)	5.05	2.04	Redear sunfish
		****	NOT RECORDED ****			Smallmouth bass
		****	NOT RECORDED ****			Striped bass
		****	NOT RECORDED ****			Warmouth
		****	NOT RECORDED ****			White bass
274	53-495 (80%)	.019	.003-.035 (85%)	26.88	10.88	White crappie
3	0-9 (223%)	.000	.000-.000 (220%)	0.28	0.11	Yellow bullhead

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

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
814	427-1200 (48%)	.025	.013-.037 (47%)	79.78	0.313	All species
25	5-46 (81%)	.004	.001-.007 (86%)	2.50	0.125	Black crappie
51	26-76 (49%)	.002	.000-.003 (72%)	5.04	0.076	Bluegill
		****	NOT RECORDED ****			Brown bullhead
		****	NOT RECORDED ****			Carp
		****	NOT RECORDED ****			Unidentified catfish
135	72-198 (47%)	.010	.000-.021 (108%)	13.21	0.460	Channel catfish
2	0-10 (318%)	.000	.000-.000 (318%)	0.23	0.115	Crappie spp.
0	0-1 (220%)	.000	.000-.000 (220%)	0.04	0.219	Freshwater drum
		****	NOT RECORDED ****			Green sunfish
		****	NOT RECORDED ****			Gizzard shad
32	2-61 (92%)	.001	.000-.002 (96%)	3.11	0.505	Largemouth bass
9	0-29 (236%)	.000	.000-.000 (236%)	0.86	5.261	Muskellunge
526	145-906 (72%)	.006	.002-.010 (63%)	51.55	0.521	Rainbow trout
4	0-8 (91%)	.000	.000-.000 (111%)	0.40	0.080	Redear sunfish
		****	NOT RECORDED ****			Smallmouth bass
		****	NOT RECORDED ****			Striped bass
		****	NOT RECORDED ****			Warmouth
		****	NOT RECORDED ****			White bass
28	8-48 (70%)	.002	.000-.003 (78%)	2.75	0.102	White crappie
1	0-3 (220%)	.000	.000-.000 (220%)	0.09	0.314	Yellow bullhead

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1794	941-2646	(48%)	.055	.029-.081 (47%)	71.18	0.691	All species
56	11-102	(81%)	.008	.001-.015 (86%)	2.23	0.275	Black crappie
113	58-169	(49%)	.004	.001-.006 (72%)	4.49	0.168	Bluegill
			****	NOT RECORDED ****			Brown bullhead
			****	NOT RECORDED ****			Carp
			****	NOT RECORDED ****			Unidentified catfish
297	158-436	(47%)	.022	.000-.047 (108%)	11.79	1.014	Channel catfish
5	0-28	(430%)	.000	.000-.001 (318%)	0.21	0.253	Crappie spp.
1	0-3	(223%)	.000	.000-.000 (220%)	0.04	0.483	Freshwater drum
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
70	5-134	(92%)	.002	.000-.005 (96%)	2.77	1.114	Largemouth bass
19	0-64	(231%)	.000	.000-.000 (236%)	0.77	11.599	Muskellunge
1159	320-1998	(72%)	.014	.005-.022 (63%)	46.00	1.149	Rainbow trout
9	1-17	(91%)	.000	.000-.001 (111%)	0.36	0.176	Redear sunfish
			****	NOT RECORDED ****			Smallmouth bass
			****	NOT RECORDED ****			Striped bass
			****	NOT RECORDED ****			Warmouth
			****	NOT RECORDED ****			White bass
62	18-105	(70%)	.004	.001-.008 (78%)	2.45	0.225	White crappie
2	0-6	(223%)	.000	.000-.000 (223%)	0.08	0.693	Yellow bullhead

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
16337	14299-18375	(12%)	.773	.650-.895 (16%)	1601.94	648.30	All species
927	343-1512	(63%)	.119	.049-.190 (59%)	90.92	36.79	Black crappie
9449	7964-10933	(16%)	.312	.249-.376 (20%)	926.50	374.95	Bluegill
10	0-22	(125%)	.000	.000-.000 (158%)	0.98	0.40	Brown bullhead
44	9-79	(80%)	.008	.000-.019 (151%)	4.30	1.74	Carp
18	0-38	(106%)	.001	.000-.002 (191%)	1.80	0.73	Unidentified catfis
846	619-1072	(27%)	.059	.028-.090 (53%)	82.93	33.56	Channel catfish
769	339-1200	(56%)	.046	.024-.068 (48%)	75.44	30.53	Crappie spp.
2	0-6	(220%)	.000	.000-.000 (223%)	0.19	0.08	Freshwater drum
75	0-218	(192%)	.003	.000-.011 (212%)	7.31	2.96	Green sunfish
4	0-13	(231%)	.000	.000-.000 (231%)	0.39	0.16	Gizzard shad
1390	1138-1641	(18%)	.104	.071-.136 (31%)	136.27	55.15	Largemouth bass
2	0-6	(236%)	.000	.000-.000 (236%)	0.16	0.07	Muskellunge
1071	341-1801	(68%)	.016	.007-.026 (60%)	105.04	42.51	Rainbow trout
496	288-704	(42%)	.020	.005-.035 (77%)	48.64	19.68	Redear sunfish
44	0-99	(123%)	.002	.000-.004 (120%)	4.32	1.75	Smallmouth bass
16	0-38	(146%)	.000	.000-.001 (131%)	1.52	0.62	Striped bass
3	0-8	(231%)	.000	.000-.000 (236%)	0.25	0.10	Warmouth
6	0-14	(149%)	.000	.000-.001 (193%)	0.57	0.23	White bass
1148	488-1807	(57%)	.081	.031-.132 (62%)	112.55	45.55	White crappie
19	0-38	(100%)	.000	.000-.001 (123%)	1.86	0.75	Yellow bullhead

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2173	1730-2617	(20%)	.121	.095-.147 (22%)	213.12	0.133	All species
121	45-196	(63%)	.017	.007-.026 (59%)	11.84	0.130	Black crappie
499	415-583	(17%)	.019	.013-.024 (30%)	48.92	0.053	Bluegill
1	0-3	(169%)	.000	.000-.000 (134%)	0.11	0.112	Brown bullhead
61	0-155	(156%)	.004	.000-.008 (99%)	5.95	1.384	Carp
			****	NOT RECORDED ****			Unidentified catfis
268	165-371	(39%)	.023	.005-.041 (79%)	26.28	0.317	Channel catfish
41	14-67	(66%)	.002	.001-.003 (53%)	3.98	0.053	Crappie spp.
0	0-1	(220%)	.000	.000-.000 (220%)	0.04	0.219	Freshwater drum
5	0-14	(199%)	.000	.000-.001 (214%)	0.45	0.061	Green sunfish
0	0-1	(236%)	.000	.000-.000 (231%)	0.03	0.086	Gizzard shad
483	376-589	(22%)	.039	.025-.052 (35%)	47.34	0.347	Largemouth bass
9	0-29	(236%)	.000	.000-.000 (236%)	0.86	5.261	Muskellunge
553	164-941	(70%)	.008	.003-.012 (55%)	54.20	0.516	Rainbow trout
29	14-43	(50%)	.002	.000-.003 (113%)	2.80	0.058	Redear sunfish
9	0-22	(135%)	.001	.000-.001 (116%)	0.93	0.215	Smallmouth bass
2	0-5	(138%)	.000	.000-.000 (129%)	0.20	0.129	Striped bass
0	0-0	(236%)	.000	.000-.000 (231%)	0.01	0.047	Warmouth
3	0-7	(164%)	.000	.000-.000 (202%)	0.25	0.434	White bass
88	35-142	(61%)	.007	.002-.011 (64%)	8.66	0.077	White crappie
3	0-6	(95%)	.000	.000-.000 (122%)	0.28	0.151	Yellow bullhead

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
4792	3813-5770	(20%)	.266	.209-.323 (22%)	190.15	0.293	All species
266	99-433	(63%)	.037	.015-.058 (59%)	10.56	0.287	Black crappie
1100	915-1285	(17%)	.041	.029-.053 (30%)	43.65	0.116	Bluegill
2	0-7	(169%)	.000	.000-.000 (134%)	0.10	0.247	Brown bullhead
134	0-343	(156%)	.009	.000-.017 (99%)	5.31	3.052	Carp
			****	NOT RECORDED ****			Unidentified catfis
591	363-819	(39%)	.051	.011-.091 (79%)	23.45	0.699	Channel catfish
89	30-149	(66%)	.005	.002-.008 (53%)	3.55	0.116	Crappie spp.
1	0-3	(223%)	.000	.000-.000 (220%)	0.04	0.483	Freshwater drum
10	0-30	(199%)	.000	.000-.002 (214%)	0.40	0.135	Green sunfish
1	0-3	(236%)	.000	.000-.000 (231%)	0.03	0.190	Gizzard shad
1064	829-1300	(22%)	.086	.056-.116 (35%)	42.24	0.766	Largemouth bass
19	0-64	(231%)	.000	.000-.000 (236%)	0.77	11.599	Muskellunge
1219	362-2075	(70%)	.017	.008-.027 (55%)	48.36	1.138	Rainbow trout
63	32-94	(50%)	.004	.000-.008 (113%)	2.50	0.127	Redear sunfish
21	0-49	(135%)	.001	.000-.003 (116%)	0.83	0.474	Smallmouth bass
4	0-10	(138%)	.000	.000-.000 (129%)	0.17	0.284	Striped bass
0	0-1	(231%)	.000	.000-.000 (236%)	0.01	0.104	Warmouth
6	0-15	(164%)	.000	.000-.001 (202%)	0.22	0.957	White bass
195	76-313	(61%)	.015	.005-.025 (64%)	7.73	0.170	White crappie
6	0-12	(95%)	.000	.000-.000 (122%)	0.25	0.333	Yellow bullhead

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

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	2.9	2.6-3.3 (12%)	0.4	12.4	114
SHORE	1.7	1.5-1.8 (9%)	0.2	9.2	290
BOAT & SHORE	2.0	1.9-2.2 (8%)	0.2	12.4	404
MILES TRAVELED	22.4	16.5-28.3 (26%)	1	2000	1401
SUCCESS RATING (1-10)	4.3	4.1-4.4 (4%)	1	10	1369

*110 samples were from split interviews of completed trips.
24.9% of all 1621 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 49 out of 1621 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	76	41	7							
SHORE INTERVIEWS	770	449	152	84	20	7	3	2		10

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

733 (45.2%)	ANY	All species
61 (3.8%)	BLG	Bluegill
6 (0.4%)	CAP	Carp
176 (10.9%)	CAT	Unidentified catfish
31 (1.9%)	CCF	Channel catfish
77 (4.8%)	CRP	Crappie spp.
254 (15.7%)	LMB	Largemouth bass
19 (1.2%)	MUE	Muskellunge
250 (15.4%)	RBT	Rainbow trout
1 (0.1%)	RSF	Redear sunfish
13 (0.8%)	WHC	White crappie

2005 LAKE OF THE WOODS

DAY CREEL

03/15/2005 - 10/31/2005

Table 11 Cont. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Smallmouth bass																
HARVEST	810	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	802	7	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass																
HARVEST	810	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	807	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White bass																
HARVEST	810	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	808	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	792	5	4	3	-	2	1	1	1	-	1	-	-	-	-	-
RELEASE	785	15	3	2	-	2	2	-	-	-	1	-	-	-	-	-

