

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 2003 CREEL SURVEY RESULTS

2003 WALNUT POINT LAKE  
 52 ACRES  
 REGION 3, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2003 through 10/31/2003  
 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: 303/693 = 43.7%

NUMBER OF INTERVIEWS: 1437

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	5576	4750-6401 ( 15%)	107	91-122 ( 15%)	16%
	HOLIDAY	5426	4703-6150 ( 13%)	104	90-118 ( 13%)	31%
	TOTAL	11002	9905-12099 ( 10%)	210	189-231 ( 10%)	23%
SHORE	WEEKDAY	3568	2923-4213 ( 18%)	68	56-81 ( 18%)	15%
	HOLIDAY	3188	2715-3661 ( 15%)	61	52-70 ( 15%)	26%
	TOTAL	6756	5956-7556 ( 12%)	129	114-144 ( 12%)	20%
BOAT & SHORE	WEEKDAY	9144	8096-10191 ( 11%)	175	155-195 ( 11%)	16%
	HOLIDAY	8614	7750-9478 ( 10%)	165	148-181 ( 10%)	29%
	TOTAL	17758	16400-19116 ( 8%)	340	314-366 ( 8%)	22%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3037	2472-3602	( 19%)	.131	.104-.157 ( 20%)	143.48	58.07	All species
510	278-743	( 46%)	.019	.009-.029 ( 52%)	24.10	9.75	Black crappie
1332	1015-1650	( 24%)	.054	.039-.069 ( 28%)	62.94	25.47	Bluegill
302	173-430	( 43%)	.013	.006-.019 ( 53%)	14.25	5.77	Channel catfish
			****	NOT RECORDED	****		Crappie spp.
5	0-28	(430%)	.000	.000-.000 (430%)	0.25	0.10	Green sunfish
648	415-881	( 36%)	.031	.019-.044 ( 40%)	30.62	12.39	Largemouth bass
220	107-333	( 51%)	.014	.001-.026 ( 92%)	10.39	4.20	Redear sunfish
			****	NOT RECORDED	****		Smallmouth bass
20	0-54	(174%)	.000	.000-.001 (173%)	0.93	0.38	White crappie

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
763	620-907	( 19%)	.034	.027-.040 ( 20%)	36.06	0.251	All species
115	62-168	( 46%)	.004	.002-.007 ( 53%)	5.44	0.226	Black crappie
229	176-283	( 23%)	.009	.007-.012 ( 28%)	10.84	0.172	Bluegill
114	63-166	( 45%)	.005	.002-.007 ( 53%)	5.39	0.378	Channel catfish
			****	NOT RECORDED	****		Crappie spp.
1	0-5	(430%)	.000	.000-.000 (430%)	0.04	0.176	Green sunfish
235	150-321	( 36%)	.011	.007-.015 ( 38%)	11.12	0.363	Largemouth bass
65	29-100	( 55%)	.004	.000-.008 ( 99%)	3.05	0.294	Redear sunfish
			****	NOT RECORDED	****		Smallmouth bass
4	0-10	(177%)	.000	.000-.000 (192%)	0.17	0.188	White crappie

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1682	1366-1999	( 19%)	.074	.059-.089 ( 20%)	32.17	0.554	All species
254	136-371	( 46%)	.009	.004-.014 ( 53%)	4.85	0.497	Black crappie
506	389-623	( 23%)	.021	.015-.027 ( 28%)	9.67	0.380	Bluegill
251	138-365	( 45%)	.010	.005-.016 ( 53%)	4.81	0.834	Channel catfish
			****	NOT RECORDED	****		Crappie spp.
2	0-11	(430%)	.000	.000-.000 (430%)	0.04	0.388	Green sunfish
519	330-708	( 36%)	.025	.015-.034 ( 38%)	9.93	0.801	Largemouth bass
142	64-220	( 55%)	.009	.000-.017 ( 99%)	2.72	0.647	Redear sunfish
			****	NOT RECORDED	****		Smallmouth bass
8	0-22	(177%)	.000	.000-.000 (192%)	0.16	0.413	White crappie

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
30847	27215-34479 ( 12%)	1.441	1.241-1.641 ( 14%)	1457.43	589.81	All species
668	392-943 ( 41%)	.023	.012-.034 ( 47%)	31.55	12.77	Black crappie
20648	17562-23735 ( 15%)	.996	.819-1.173 ( 18%)	975.57	394.81	Bluegill
708	508-907 ( 28%)	.032	.022-.041 ( 31%)	33.43	13.53	Channel catfish
3	0-9 (236%)	.003	.000-.010 (236%)	0.12	0.05	Crappie spp.
81	33-130 ( 60%)	.003	.001-.005 ( 68%)	3.85	1.56	Green sunfish
8226	6920-9533 ( 16%)	.358	.282-.434 ( 21%)	388.66	157.29	Largemouth bass
453	286-619 ( 37%)	.025	.010-.040 ( 59%)	21.39	8.66	Redear sunfish
2	0-9 (257%)	.000	.000-.001 (245%)	0.11	0.05	Smallmouth bass
58	3-113 ( 95%)	.001	.000-.002 ( 87%)	2.74	1.11	White crappie

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
4156	3656-4655 ( 12%)	.188	.163-.213 ( 13%)	196.34	0.135	All species
131	75-188 ( 43%)	.005	.002-.007 ( 49%)	6.20	0.196	Black crappie
1726	1464-1989 ( 15%)	.082	.068-.096 ( 17%)	81.56	0.084	Bluegill
201	137-265 ( 32%)	.009	.006-.012 ( 37%)	9.48	0.284	Channel catfish
0	0-1 (245%)	.000	.000-.001 (236%)	0.01	0.084	Crappie spp.
5	2-8 ( 67%)	.000	.000-.000 ( 70%)	0.23	0.060	Green sunfish
1977	1625-2329 ( 18%)	.086	.065-.107 ( 25%)	93.40	0.240	Largemouth bass
105	64-146 ( 39%)	.006	.002-.010 ( 69%)	4.96	0.232	Redear sunfish
0	0-0 (245%)	.000	.000-.000 (257%)	0.01	0.051	Smallmouth bass
10	2-19 ( 81%)	.000	.000-.000 ( 81%)	0.49	0.180	White crappie

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
9162	8060-10263 ( 12%)	.415	.360-.470 ( 13%)	175.17	0.297	All species
289	165-414 ( 43%)	.010	.005-.015 ( 49%)	5.53	0.433	Black crappie
3806	3227-4385 ( 15%)	.181	.150-.212 ( 17%)	72.77	0.184	Bluegill
442	301-584 ( 32%)	.019	.012-.027 ( 37%)	8.46	0.625	Channel catfish
0	0-2 (245%)	.001	.000-.002 (236%)	0.01	0.186	Crappie spp.
11	4-18 ( 67%)	.000	.000-.001 ( 70%)	0.21	0.132	Green sunfish
4358	3582-5134 ( 18%)	.190	.144-.237 ( 25%)	83.33	0.530	Largemouth bass
232	141-322 ( 39%)	.013	.004-.022 ( 69%)	4.43	0.512	Redear sunfish
0	0-1 (245%)	.000	.000-.000 (257%)	0.01	0.113	Smallmouth bass
23	4-42 ( 81%)	.000	.000-.001 ( 81%)	0.44	0.396	White crappie

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
<b>HOURS PER COMPLETED TRIP*</b>						
BOAT	3.0	2.8-3.3	( 9%)	0.5	6.5	92
SHORE	1.5	1.1-1.9	( 28%)	0.2	3.5	28
BOAT & SHORE	2.7	2.4-2.9	( 10%)	0.2	6.5	120
MILES TRAVELED	38.2	35.6-40.9	( 7%)	1	1100	1257
SUCCESS RATING (1-10)	3.6	3.5-3.8	( 4%)	1	10	1257

\*37 samples were from split interviews of completed trips.  
 8.6% of all 1400 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 12 out of 1400 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	346	425	80	17						
SHORE INTERVIEWS	205	217	58	36	8	4	2	1		1

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

275 ( 19.6%)	ANY	All species
582 ( 41.6%)	BLG	Bluegill
386 ( 27.6%)	BSS	Black bass spp.
20 ( 1.4%)	CAT	Unidentified catfish
51 ( 3.6%)	CCF	Channel catfish
81 ( 5.8%)	CRP	Crappie spp.
4 ( 0.3%)	LMB	Largemouth bass
1 ( 0.1%)	RSF	Redear sunfish

