

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 2004 CREEL SURVEY RESULTS

2004 TAMPIER LAKE  
 160 ACRES  
 REGION 2, DISTRICT 8

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 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: 208/693 = 30.0%

NUMBER OF INTERVIEWS: 1761

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	3473	2738-4208 ( 21%)	22	17-26 ( 21%)	6%
	HOLIDAY	3612	2864-4359 ( 21%)	23	18-27 ( 21%)	12%
	TOTAL	7085	6081-8088 ( 14%)	44	38-51 ( 14%)	9%
SHORE	WEEKDAY	26028	22503-29553 ( 14%)	163	141-185 ( 14%)	7%
	HOLIDAY	26168	21586-30750 ( 18%)	164	135-192 ( 18%)	13%
	TOTAL	52196	46685-57707 ( 11%)	326	292-361 ( 11%)	10%
BOAT & SHORE	WEEKDAY	29501	25917-33085 ( 12%)	184	162-207 ( 12%)	7%
	HOLIDAY	29780	25325-34235 ( 15%)	186	158-214 ( 15%)	13%
	TOTAL	59281	53679-64883 ( 9%)	371	335-406 ( 9%)	10%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
7988	5082-10893 ( 36%)	.083	.003-.162 ( 96%)	123.36	49.92	All species
498	141-854 ( 72%)	.004	.000-.008 ( 92%)	7.69	3.11	Black bullhead
238	27-449 ( 89%)	.002	.000-.004 (107%)	3.68	1.49	Black crappie
1785	610-2960 ( 66%)	.014	.005-.023 ( 63%)	27.56	11.16	Bluegill
12	0-28 (136%)	.000	.000-.000 (127%)	0.19	0.08	Brown bullhead
1436	851-2021 ( 41%)	.016	.006-.026 ( 65%)	22.18	8.98	Carp
474	37-912 ( 92%)	.003	.001-.006 ( 78%)	7.32	2.96	Channel catfish
		****	NOT RECORDED ****			Crappie spp.
69	0-291 (318%)	.001	.000-.003 (318%)	1.07	0.43	Flathead catfish
437	7-867 ( 98%)	.002	.000-.004 (100%)	6.75	2.73	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
31	0-71 (125%)	.000	.000-.003 (851%)	0.48	0.20	Largemouth bass
		****	NOT RECORDED ****			Northern pike
		****	NOT RECORDED ****			Pumpkinseed
99	0-229 (131%)	.000	.000-.001 (153%)	1.53	0.62	Redear sunfish
27	0-71 (165%)	.000	.000-.000 (183%)	0.41	0.17	Walleye
23	0-66 (186%)	.000	.000-.000 (254%)	0.35	0.14	Warmouth
25	0-87 (245%)	.000	.000-.001 (245%)	0.39	0.16	White bass
302	0-613 (103%)	.005	.000-.014 (158%)	4.67	1.89	White crappie
97	0-338 (250%)	.001	.000-.003 (236%)	1.49	0.60	Yellow bullhead
9	0-33 (245%)	.000	.000-.000 (245%)	0.15	0.06	Yellow perch
2424	501-4347 ( 79%)	.033	.000-.237 (625%)	37.43	15.15	Yellow bass

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1038	741-1334	( 29%)	.012	.007-.016 ( 40%)	16.02	0.130	All species
53	17-90	( 69%)	.000	.000-.001 ( 93%)	0.83	0.107	Black bullhead
16	4-29	( 78%)	.000	.000-.001 (150%)	0.25	0.069	Black crappie
94	38-150	( 60%)	.001	.000-.002 ( 80%)	1.45	0.053	Bluegill
1	0-3	(129%)	.000	.000-.000 (134%)	0.02	0.093	Brown bullhead
486	296-677	( 39%)	.005	.002-.008 ( 57%)	7.51	0.339	Carp
123	3-242	( 97%)	.002	.000-.004 (176%)	1.90	0.259	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
10	0-54	(430%)	.000	.000-.000 (318%)	0.16	0.146	Flathead catfish
12	0-24	( 99%)	.000	.000-.000 (125%)	0.19	0.028	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
2	0-21	(839%)	.000	.000-.000 (1105%)	0.03	0.071	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Pumpkinseed
4	0-9	(140%)	.000	.000-.000 (158%)	0.06	0.038	Redear sunfish
38	0-121	(217%)	.000	.000-.001 (217%)	0.59	1.429	Walleye
1	0-2	(185%)	.000	.000-.000 (184%)	0.01	0.033	Warmouth
1	0-3	(245%)	.000	.000-.000 (236%)	0.01	0.031	White bass
44	0-105	(138%)	.001	.000-.002 (228%)	0.68	0.146	White crappie
14	0-50	(256%)	.000	.000-.001 (717%)	0.22	0.145	Yellow bullhead
1	0-2	(236%)	.000	.000-.000 (245%)	0.01	0.067	Yellow perch
137	16-257	( 88%)	.002	.000-.015 (644%)	2.11	0.056	Yellow bass

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2287	1633-2942	( 29%)	.026	.015-.036 ( 40%)	14.30	0.286	All species
118	37-199	( 69%)	.001	.000-.002 ( 93%)	0.74	0.237	Black bullhead
36	8-64	( 78%)	.001	.000-.001 (150%)	0.23	0.152	Black crappie
207	83-332	( 60%)	.002	.000-.004 ( 80%)	1.30	0.116	Bluegill
2	0-6	(129%)	.000	.000-.000 (134%)	0.02	0.206	Brown bullhead
1073	652-1493	( 39%)	.011	.005-.018 ( 57%)	6.70	0.747	Carp
271	7-534	( 97%)	.003	.000-.009 (176%)	1.69	0.571	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
22	0-94	(318%)	.000	.000-.001 (430%)	0.14	0.322	Flathead catfish
27	0-53	( 99%)	.000	.000-.000 (125%)	0.17	0.061	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
5	0-46	(839%)	.000	.000-.001 (1105%)	0.03	0.158	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Pumpkinseed
8	0-20	(140%)	.000	.000-.000 (158%)	0.05	0.083	Redear sunfish
84	0-266	(217%)	.000	.000-.001 (217%)	0.52	3.151	Walleye
2	0-5	(185%)	.000	.000-.000 (184%)	0.01	0.073	Warmouth
2	0-6	(245%)	.000	.000-.000 (245%)	0.01	0.068	White bass
97	0-231	(138%)	.002	.000-.005 (228%)	0.61	0.321	White crappie
31	0-110	(256%)	.000	.000-.002 (717%)	0.19	0.320	Yellow bullhead
1	0-5	(236%)	.000	.000-.000 (236%)	0.01	0.147	Yellow perch
301	35-567	( 88%)	.005	.000-.034 (644%)	1.88	0.124	Yellow bass

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
52479	43556-61402 ( 17%)	.587	.456-.719 ( 22%)	810.47	327.99	All species
5318	3806-6830 ( 28%)	.052	.034-.070 ( 35%)	82.12	33.24	Black bullhead
1999	1257-2741 ( 37%)	.026	.011-.040 ( 56%)	30.87	12.49	Black crappie
15915	10332-21499 ( 35%)	.173	.090-.256 ( 48%)	245.79	99.47	Bluegill
37	0-96 (158%)	.001	.000-.003 (385%)	0.58	0.23	Brown bullhead
2798	1785-3812 ( 36%)	.029	.013-.045 ( 54%)	43.21	17.49	Carp
2115	966-3265 ( 54%)	.036	.000-.091 (154%)	32.67	13.22	Channel catfish
18	0-45 (147%)	.002	.000-.006 (264%)	0.28	0.11	Crappie spp.
69	0-291 (318%)	.001	.000-.003 (318%)	1.07	0.43	Flathead catfish
3590	2643-4537 ( 26%)	.024	.016-.033 ( 34%)	55.45	22.44	Green sunfish
2	0-8 (236%)	.000	.000-.000 (236%)	0.04	0.01	Gizzard shad
2004	1341-2667 ( 33%)	.021	.011-.031 ( 47%)	30.95	12.52	Largemouth bass
36	0-98 (171%)	.000	.000-.000 (196%)	0.56	0.23	Northern pike
126	0-316 (150%)	.001	.000-.004 (236%)	1.95	0.79	Pumpkinseed
279	72-486 ( 74%)	.002	.000-.004 (107%)	4.31	1.74	Redear sunfish
376	0-2514 (568%)	.006	.000-.053 (764%)	5.81	2.35	Walleye
100	0-216 (116%)	.001	.000-.001 (115%)	1.54	0.62	Warmouth
1645	448-2841 ( 73%)	.015	.004-.027 ( 76%)	25.40	10.28	White bass
1592	482-2702 ( 70%)	.018	.005-.031 ( 70%)	24.59	9.95	White crappie
406	0-2671 (558%)	.019	.000-.233 (1097%)	6.27	2.54	Yellow bullhead
76	15-138 ( 81%)	.000	.000-.001 ( 91%)	1.17	0.48	Yellow perch
13976	10562-17389 ( 24%)	.160	.097-.223 ( 39%)	215.84	87.35	Yellow bass

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
4016	3367-4664	( 16%)	.051	.036-.067 ( 30%)	62.02	0.077	All species
533	376-689	( 29%)	.006	.004-.007 ( 34%)	8.23	0.100	Black bullhead
105	58-151	( 44%)	.001	.000-.002 ( 70%)	1.62	0.052	Black crappie
610	332-889	( 46%)	.008	.001-.014 ( 87%)	9.43	0.038	Bluegill
4	0-10	(156%)	.000	.000-.000 (376%)	0.06	0.100	Brown bullhead
854	574-1134	( 33%)	.009	.005-.012 ( 42%)	13.19	0.305	Carp
387	112-663	( 71%)	.008	.000-.022 (166%)	5.98	0.183	Channel catfish
0	0-1	(144%)	.000	.000-.000 (255%)	0.01	0.023	Crappie spp.
10	0-54	(430%)	.000	.000-.000 (318%)	0.16	0.146	Flathead catfish
67	39-95	( 42%)	.000	.000-.001 ( 51%)	1.03	0.019	Green sunfish
0	0-1	(236%)	.000	.000-.000 (245%)	0.01	0.161	Gizzard shad
569	256-883	( 55%)	.007	.001-.012 ( 81%)	8.79	0.284	Largemouth bass
2	0-26	(1056%)	.000	.000-.000 (1109%)	0.03	0.062	Northern pike
2	0-5	(137%)	.000	.000-.000 (185%)	0.03	0.015	Pumpkinseed
9	1-16	( 85%)	.000	.000-.000 (119%)	0.13	0.031	Redear sunfish
99	0-211	(113%)	.001	.000-.010 (604%)	1.53	0.264	Walleye
5	0-12	(146%)	.000	.000-.000 (125%)	0.07	0.047	Warmouth
51	17-85	( 67%)	.000	.000-.001 ( 66%)	0.79	0.031	White bass
125	36-215	( 71%)	.001	.000-.003 (105%)	1.94	0.079	White crappie
50	0-315	(533%)	.002	.000-.026 (1073%)	0.77	0.123	Yellow bullhead
3	0-5	(119%)	.000	.000-.000 (159%)	0.04	0.033	Yellow perch
530	365-694	( 31%)	.006	.001-.012 ( 83%)	8.18	0.038	Yellow bass

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
8853	7423-10283 ( 16%)	.113	.079-.147 ( 30%)	55.33	0.169	All species
1175	830-1520 ( 29%)	.012	.008-.016 ( 34%)	7.34	0.221	Black bullhead
231	128-333 ( 44%)	.003	.001-.005 ( 70%)	1.44	0.115	Black crappie
1346	731-1960 ( 46%)	.017	.002-.031 ( 87%)	8.41	0.085	Bluegill
8	0-21 (156%)	.000	.000-.001 (376%)	0.05	0.221	Brown bullhead
1883	1266-2501 ( 33%)	.019	.011-.027 ( 42%)	11.77	0.673	Carp
854	246-1461 ( 71%)	.019	.000-.049 (166%)	5.34	0.404	Channel catfish
1	0-2 (144%)	.000	.000-.000 (255%)	0.01	0.050	Crappie spp.
22	0-94 (318%)	.000	.000-.001 (430%)	0.14	0.322	Flathead catfish
147	86-208 ( 42%)	.001	.001-.002 ( 51%)	0.92	0.041	Green sunfish
1	0-3 (245%)	.000	.000-.000 (236%)	0.01	0.354	Gizzard shad
1255	565-1946 ( 55%)	.015	.003-.027 ( 81%)	7.85	0.626	Largemouth bass
5	0-57 (1056%)	.000	.000-.000 (1109%)	0.03	0.137	Northern pike
4	0-10 (137%)	.000	.000-.000 (185%)	0.03	0.034	Pumpkinseed
19	3-35 ( 85%)	.000	.000-.000 (119%)	0.12	0.067	Redear sunfish
219	0-466 (113%)	.003	.000-.022 (604%)	1.37	0.582	Walleye
10	0-26 (146%)	.000	.000-.000 (125%)	0.06	0.104	Warmouth
113	37-188 ( 67%)	.001	.000-.002 ( 66%)	0.70	0.069	White bass
277	80-473 ( 71%)	.003	.000-.007 (105%)	1.73	0.174	White crappie
110	0-696 (533%)	.005	.000-.058 (1073%)	0.69	0.271	Yellow bullhead
6	0-12 (119%)	.000	.000-.000 (159%)	0.03	0.073	Yellow perch
1168	805-1530 ( 31%)	.014	.002-.026 ( 83%)	7.30	0.084	Yellow bass

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

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	3.3	2.9-3.7 ( 12%)	0.5	11.8	86
SHORE	2.3	2.2-2.5 ( 6%)	0.1	6.9	345
BOAT & SHORE	2.5	2.4-2.7 ( 6%)	0.1	11.8	431
MILES TRAVELED	12.8	12.4-13.3 ( 3%)	1	60	1411
SUCCESS RATING (1-10)	2.9	2.7-3.0 ( 5%)	1	10	1417

\*145 samples were from split interviews of completed trips.  
26.7% of all 1616 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 27 out of 1616 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	13	63	16	5	1					
SHORE INTERVIEWS	682	528	187	75	26	11	4	3	1	1

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

743 ( 46.0%)	ANY	All species
4 ( 0.2%)	BLB	Black bullhead
15 ( 0.9%)	BLC	Black crappie
92 ( 5.7%)	BLG	Bluegill
123 ( 7.6%)	CAP	Carp
167 ( 10.3%)	CCF	Channel catfish
73 ( 4.5%)	CRP	Crappie spp.
191 ( 11.8%)	LMB	Largemouth bass
5 ( 0.3%)	NOP	Northern pike
1 ( 0.1%)	SUN	Sunfish spp. excluding Crappie and Black Bass
144 ( 8.9%)	WAE	Walleye
2 ( 0.1%)	WHB	White bass
42 ( 2.6%)	WHC	White crappie
14 ( 0.9%)	YLB	Yellow bass



2004 TAMPIER LAKE

DAY CREEL

03/15/2004 - 10/31/2004

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
White bass																
HARVEST	837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	828	3	2	4	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	836	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	811	18	4	1	2	1	-	-	-	-	-	-	-	-	-	-
Yellow bullhead																
HARVEST	835	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	831	4	1	-	-	-	-	-	1	-	-	-	-	-	-	-
Yellow perch																
HARVEST	837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	836	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	829	3	-	-	4	-	1	-	-	-	-	-	-	-	-	-
RELEASE	703	65	28	13	9	4	4	-	2	-	4	3	-	-	-	2