

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 1996 CREEL SURVEY RESULTS

1996 LAKE STOREY  
 132 ACRES  
 REGION 1, DISTRICT 4

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 04/09/1996 through 11/15/1996  
 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: 302/663 = 45.6%

NUMBER OF INTERVIEWS: 1144

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	7191	6022-8361 ( 16%)	54	45-63 ( 16%)	11%
	HOLIDAY	8526	7628-9424 ( 11%)	64	58-71 ( 11%)	23%
	TOTAL	15717	14243-17192 ( 9%)	119	107-130 ( 9%)	18%
SHORE	WEEKDAY	7777	6595-8960 ( 15%)	59	50-68 ( 15%)	6%
	HOLIDAY	5781	4985-6577 ( 14%)	44	38-50 ( 14%)	14%
	TOTAL	13559	12151-14966 ( 10%)	102	92-113 ( 10%)	9%
BOAT & SHORE	WEEKDAY	14969	13305-16632 ( 11%)	113	100-126 ( 11%)	8%
	HOLIDAY	14307	13129-15486 ( 8%)	108	99-117 ( 8%)	19%
	TOTAL	29276	27237-31314 ( 7%)	221	206-236 ( 7%)	14%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
5175	3936-6414	( 24%)	.113	.072-.154 ( 37%)	96.51	39.06	All species
270	7-534	( 97%)	.004	.001-.008 ( 87%)	5.04	2.04	Black bullhead
2380	1505-3255	( 37%)	.055	.027-.084 ( 52%)	44.39	17.97	Black crappie
949	561-1337	( 41%)	.017	.009-.025 ( 47%)	17.70	7.16	Bluegill
4	0-12	(223%)	.000	.000-.000 (220%)	0.07	0.03	Bluegill x
Redear s							
108	0-233	(116%)	.003	.000-.007 (108%)	2.02	0.82	Carp
366	208-524	( 43%)	.010	.004-.015 ( 55%)	6.82	2.76	Channel catfish
46	0-133	(189%)	.001	.000-.002 (205%)	0.86	0.35	Green sunfish
192	58-326	( 70%)	.003	.001-.005 ( 75%)	3.58	1.45	Largemouth bass
38	0-97	(154%)	.001	.000-.002 (216%)	0.71	0.29	Muskellunge
46	0-122	(165%)	.000	.000-.001 (167%)	0.86	0.35	Redear sunfish
259	0-532	(105%)	.004	.000-.009 ( 96%)	4.83	1.96	Walleye
507	161-853	( 68%)	.014	.000-.029 (116%)	9.46	3.83	White crappie
9	0-49	(430%)	.000	.000-.002 (1271%)	0.17	0.07	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
1693	1039-2348	( 39%)	.039	.022-.055 ( 42%)	31.58	0.327	All species
56	10-103	( 83%)	.001	.000-.001 ( 81%)	1.05	0.209	Black bullhead
201	134-269	( 34%)	.005	.002-.008 ( 53%)	3.75	0.085	Black crappie
66	37-94	( 43%)	.001	.001-.002 ( 47%)	1.22	0.069	Bluegill
1	0-2	(223%)	.000	.000-.000 (220%)	0.01	0.192	Bluegill x
Redear s							
390	0-906	(133%)	.012	.000-.025 (112%)	7.27	3.609	Carp
177	71-283	( 60%)	.006	.001-.011 ( 86%)	3.31	0.486	Channel catfish
3	0-7	(163%)	.000	.000-.000 (176%)	0.05	0.058	Green sunfish
185	48-321	( 74%)	.003	.001-.005 ( 75%)	3.44	0.966	Largemouth bass
253	0-676	(167%)	.005	.000-.016 (222%)	4.72	6.654	Muskellunge
8	0-22	(188%)	.000	.000-.000 (191%)	0.14	0.164	Redear sunfish
280	0-572	(104%)	.005	.000-.009 ( 98%)	5.22	1.082	Walleye
70	24-117	( 66%)	.002	.000-.003 (113%)	1.31	0.139	White crappie
4	0-23	(430%)	.000	.000-.000 (430%)	0.08	0.485	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
3734	2290-5177	( 39%)	.085	.050-.121 ( 42%)	28.18	0.721	All species
124	21-228	( 83%)	.002	.000-.003 ( 81%)	0.94	0.461	Black bullhead
444	294-593	( 34%)	.011	.005-.017 ( 53%)	3.35	0.186	Black crappie
145	83-206	( 43%)	.003	.001-.004 ( 47%)	1.09	0.152	Bluegill
1	0-4	(220%)	.000	.000-.000 (223%)	0.01	0.424	Bluegill x
Redear s							
859	0-1998	(133%)	.026	.000-.054 (112%)	6.48	7.956	Carp
391	157-624	( 60%)	.013	.002-.024 ( 86%)	2.95	1.071	Channel catfish
6	0-15	(163%)	.000	.000-.000 (176%)	0.04	0.127	Green sunfish
407	105-709	( 74%)	.006	.002-.011 ( 75%)	3.07	2.130	Largemouth bass
557	0-1491	(167%)	.011	.000-.036 (222%)	4.21	14.669	Muskellunge
17	0-48	(188%)	.000	.000-.000 (191%)	0.13	0.362	Redear sunfish
618	0-1260	(104%)	.010	.000-.020 ( 98%)	4.66	2.384	Walleye
155	52-259	( 66%)	.003	.000-.007 (113%)	1.17	0.306	White crappie
10	0-132	(1271%)	.000	.000-.003 (1271%)	0.07	1.070	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
8574	7038-10110 ( 18%)	.212	.165-.258 ( 22%)	159.89	64.71	All species
378	103-652 ( 73%)	.007	.003-.012 ( 64%)	7.05	2.85	Black bullhead
2813	1876-3750 ( 33%)	.069	.040-.098 ( 42%)	52.47	21.23	Black crappie
1674	1092-2256 ( 35%)	.034	.022-.045 ( 34%)	31.22	12.64	Bluegill
4	0-12 (223%)	.000	.000-.000 (220%)	0.07	0.03	Bluegill x
Redear s						
118	0-243 (106%)	.004	.000-.008 (101%)	2.19	0.89	Carp
590	333-848 ( 44%)	.016	.008-.025 ( 52%)	11.01	4.46	Channel catfish
81	0-190 (135%)	.002	.000-.005 (220%)	1.50	0.61	Green sunfish
1843	1244-2442 ( 33%)	.054	.032-.077 ( 41%)	34.36	13.91	Largemouth bass
120	20-220 ( 84%)	.003	.000-.006 (109%)	2.23	0.90	Muskellunge
46	0-122 (165%)	.000	.000-.001 (167%)	0.86	0.35	Redear sunfish
321	46-596 ( 86%)	.005	.001-.009 ( 80%)	5.98	2.42	Walleye
565	210-920 ( 63%)	.016	.000-.032 ( 99%)	10.54	4.26	White crappie
22	0-59 (170%)	.001	.000-.002 (199%)	0.41	0.17	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
3097	2248-3945 ( 27%)	.089	.061-.117 ( 32%)	57.75	0.361	All species
70	21-118 ( 69%)	.001	.000-.002 ( 64%)	1.30	0.185	Black bullhead
222	152-293 ( 32%)	.006	.003-.009 ( 45%)	4.15	0.079	Black crappie
98	58-137 ( 40%)	.002	.001-.003 ( 38%)	1.82	0.058	Bluegill
1	0-2 (223%)	.000	.000-.000 (220%)	0.01	0.192	Bluegill x
Redear s						
407	0-925 (127%)	.012	.000-.025 (106%)	7.59	3.480	Carp
211	87-334 ( 59%)	.007	.001-.012 ( 80%)	3.93	0.357	Channel catfish
5	0-12 (151%)	.000	.000-.000 (312%)	0.09	0.061	Green sunfish
1350	769-1931 ( 43%)	.042	.021-.063 ( 49%)	25.17	0.733	Largemouth bass
356	0-785 (120%)	.012	.000-.029 (144%)	6.65	2.995	Muskellunge
8	0-22 (188%)	.000	.000-.000 (191%)	0.14	0.164	Redear sunfish
288	0-580 (101%)	.005	.000-.009 ( 94%)	5.38	0.901	Walleye
75	27-123 ( 64%)	.002	.000-.004 ( 99%)	1.39	0.132	White crappie
7	0-22 (236%)	.000	.000-.001 (169%)	0.12	0.303	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
6827	4956-8698	( 27%)	.197	.134-.259 ( 32%)	51.52	0.796	All species
154	47-260	( 69%)	.003	.001-.004 ( 64%)	1.16	0.407	Black bullhead
490	335-645	( 32%)	.013	.007-.019 ( 45%)	3.70	0.174	Black crappie
216	129-303	( 40%)	.004	.003-.006 ( 38%)	1.63	0.129	Bluegill
1	0-4	(220%)	.000	.000-.000 (223%)	0.01	0.424	Bluegill x
Redear s							
898	0-2039	(127%)	.027	.000-.056 (106%)	6.77	7.672	Carp
465	192-737	( 59%)	.015	.003-.027 ( 80%)	3.51	0.788	Channel catfish
11	0-27	(151%)	.000	.000-.001 (312%)	0.08	0.135	Green sunfish
2975	1694-4256	( 43%)	.093	.047-.140 ( 49%)	22.45	1.615	Largemouth bass
786	0-1731	(120%)	.026	.000-.063 (144%)	5.93	6.603	Muskellunge
17	0-48	(188%)	.000	.000-.000 (191%)	0.13	0.362	Redear sunfish
635	0-1278	(101%)	.010	.001-.020 ( 94%)	4.80	1.986	Walleye
165	60-270	( 64%)	.004	.000-.008 ( 99%)	1.24	0.292	White crappie
15	0-49	(236%)	.000	.000-.001 (169%)	0.11	0.668	Yellow bullhead

