

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

1998 BULLFROG LAKE
 16 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: 213/642 = 33.2%

NUMBER OF INTERVIEWS: 537

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	203	0-856 (321%)	13	0-53 (321%)	5%
	HOLIDAY	141	0-305 (116%)	9	0-19 (116%)	5%
	TOTAL	345	0-887 (158%)	22	0-55 (158%)	5%
SHORE	WEEKDAY	8283	6934-9631 (16%)	518	433-602 (16%)	9%
	HOLIDAY	8094	6887-9301 (15%)	506	430-581 (15%)	13%
	TOTAL	16377	14566-18187 (11%)	1024	910-1137 (11%)	11%
BOAT & SHORE	WEEKDAY	8486	7105-9867 (16%)	530	444-617 (16%)	9%
	HOLIDAY	8235	7019-9452 (15%)	515	439-591 (15%)	13%
	TOTAL	16721	14880-18562 (11%)	1045	930-1160 (11%)	11%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
5409	2749-8069	(49%)	.102	.060-.145 (41%)	835.32	338.05	All species
			****	NOT RECORDED			Black bullhead
391	32-750	(92%)	.012	.000-.032 (170%)	60.37	24.43	Black crappie
4092	1798-6386	(56%)	.071	.037-.105 (48%)	631.96	255.75	Bluegill
151	0-329	(118%)	.003	.000-.008 (155%)	23.31	9.44	Channel catfish
25	0-67	(166%)	.001	.000-.001 (165%)	3.91	1.58	Green sunfish
			****	NOT RECORDED			Gizzard shad
84	12-156	(86%)	.001	.000-.003 (80%)	12.94	5.24	Largemouth bass
9	0-48	(430%)	.000	.000-.001 (430%)	1.40	0.57	White bass
31	0-62	(104%)	.001	.000-.002 (111%)	4.73	1.92	White crappie
624	358-889	(43%)	.013	.006-.020 (57%)	96.30	38.97	Yellow bullhead
2	0-8	(209%)	.000	.000-.000 (209%)	0.39	0.16	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
475	251-698	(47%)	.009	.005-.013 (48%)	73.30	0.088	All species
			****	NOT RECORDED			Black bullhead
28	1-56	(97%)	.001	.000-.002 (141%)	4.35	0.072	Black crappie
212	33-392	(85%)	.003	.001-.005 (56%)	32.78	0.052	Bluegill
27	0-63	(134%)	.001	.000-.001 (141%)	4.13	0.178	Channel catfish
1	0-2	(161%)	.000	.000-.000 (158%)	0.14	0.037	Green sunfish
			****	NOT RECORDED			Gizzard shad
30	0-63	(112%)	.001	.000-.001 (137%)	4.59	0.358	Largemouth bass
1	0-7	(430%)	.000	.000-.000 (430%)	0.21	0.149	White bass
2	0-4	(104%)	.000	.000-.000 (111%)	0.33	0.072	White crappie
173	105-241	(39%)	.004	.000-.008 (99%)	26.74	0.278	Yellow bullhead
0	0-1	(208%)	.000	.000-.000 (208%)	0.03	0.083	Yellow perch

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1046	554-1538	(47%)	.020	.010-.029 (48%)	65.40	0.193	All species
				**** NOT RECORDED ****			Black bullhead
62	2-122	(97%)	.002	.000-.004 (141%)	3.88	0.159	Black crappie
468	72-864	(85%)	.007	.003-.010 (56%)	29.25	0.114	Bluegill
59	0-138	(134%)	.001	.000-.003 (141%)	3.68	0.393	Channel catfish
2	0-5	(161%)	.000	.000-.000 (158%)	0.13	0.082	Green sunfish
				**** NOT RECORDED ****			Gizzard shad
66	0-139	(112%)	.001	.000-.003 (137%)	4.09	0.789	Largemouth bass
3	0-12	(318%)	.000	.000-.000 (430%)	0.19	0.330	White bass
5	0-10	(104%)	.000	.000-.000 (111%)	0.30	0.158	White crappie
382	232-531	(39%)	.009	.000-.018 (99%)	23.86	0.613	Yellow bullhead
0	0-1	(208%)	.000	.000-.000 (209%)	0.02	0.184	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
21095	16972-25219	(20%)	.551	.371-.730 (33%)	3257.93	1318.47	All species
23	0-68	(204%)	.000	.000-.001 (168%)	3.48	1.41	Black bullhead
874	434-1314	(50%)	.033	.008-.057 (75%)	135.02	54.64	Black crappie
15225	11543-18906	(24%)	.362	.154-.570 (57%)	2351.29	951.55	Bluegill
264	47-481	(82%)	.007	.000-.013 (94%)	40.81	16.52	Channel catfish
257	19-494	(93%)	.011	.000-.029 (157%)	39.66	16.05	Green sunfish
14	0-58	(318%)	.000	.000-.001 (318%)	2.13	0.86	Gizzard shad
2825	2080-3570	(26%)	.094	.059-.128 (37%)	436.22	176.54	Largemouth bass
22	0-52	(140%)	.000	.000-.001 (170%)	3.33	1.35	White bass
40	2-77	(95%)	.001	.000-.002 (101%)	6.11	2.47	White crappie
1434	913-1955	(36%)	.032	.019-.045 (40%)	221.50	89.64	Yellow bullhead
119	0-239	(101%)	.010	.000-.022 (115%)	18.38	7.44	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
1477	1091-1864	(26%)	.039	.028-.050 (27%)	228.17	0.070	All species
6	0-17	(167%)	.000	.000-.000 (249%)	0.96	0.281	Black bullhead
54	23-85	(57%)	.002	.000-.003 (74%)	8.30	0.061	Black crappie
502	292-712	(42%)	.011	.002-.020 (79%)	77.51	0.033	Bluegill
45	0-91	(103%)	.001	.000-.002 (97%)	6.90	0.169	Channel catfish
7	1-13	(92%)	.000	.000-.001 (290%)	1.04	0.026	Green sunfish
1	0-2	(318%)	.000	.000-.000 (318%)	0.08	0.039	Gizzard shad
493	284-703	(42%)	.016	.008-.023 (50%)	76.20	0.175	Largemouth bass
2	0-6	(235%)	.000	.000-.000 (245%)	0.29	0.089	White bass
3	0-6	(103%)	.000	.000-.000 (99%)	0.47	0.078	White crappie
364	230-497	(37%)	.009	.005-.013 (47%)	56.18	0.254	Yellow bullhead
2	0-3	(79%)	.000	.000-.000 (95%)	0.25	0.013	Yellow perch

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
3257	2405-4110	(26%)	.086	.063-.110 (27%)	203.57	0.154	All species
14	0-36	(167%)	.000	.000-.001 (249%)	0.85	0.620	Black bullhead
118	51-186	(57%)	.004	.001-.007 (74%)	7.40	0.136	Black crappie
1106	643-1570	(42%)	.025	.005-.044 (79%)	69.15	0.073	Bluegill
99	0-200	(103%)	.002	.000-.005 (97%)	6.16	0.373	Channel catfish
15	1-28	(92%)	.001	.000-.003 (290%)	0.93	0.058	Green sunfish
1	0-6	(430%)	.000	.000-.000 (430%)	0.07	0.086	Gizzard shad
1088	626-1550	(42%)	.035	.017-.052 (50%)	67.98	0.385	Largemouth bass
4	0-14	(235%)	.000	.000-.000 (245%)	0.26	0.196	White bass
7	0-14	(103%)	.000	.000-.000 (99%)	0.42	0.172	White crappie
802	507-1097	(37%)	.019	.010-.028 (47%)	50.12	0.559	Yellow bullhead
4	1-6	(79%)	.000	.000-.000 (95%)	0.22	0.030	Yellow perch

