

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

1996 WELDON SPRINGS
 29 ACRES
 REGION 3, DISTRICT 13

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1996 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: 330/738 = 44.7%

NUMBER OF INTERVIEWS: 3340

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	4189	3486-4891 (17%)	145	121-169 (17%)	21%
	HOLIDAY	5209	4544-5875 (13%)	180	157-203 (13%)	45%
	TOTAL	9398	8430-10366 (10%)	325	292-359 (10%)	34%
SHORE	WEEKDAY	9696	8465-10926 (13%)	335	293-378 (13%)	20%
	HOLIDAY	10670	9689-11651 (9%)	369	335-403 (9%)	34%
	TOTAL	20365	18791-21939 (8%)	705	650-759 (8%)	27%
BOAT & SHORE	WEEKDAY	13884	12467-15301 (10%)	480	431-529 (10%)	20%
	HOLIDAY	15879	14693-17064 (7%)	549	508-590 (7%)	38%
	TOTAL	29763	27916-31611 (6%)	1030	966-1094 (6%)	30%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
9317	7996-10638	(14%)	.283	.207-.359 (27%)	796.62	322.39	All species
11	0-27	(146%)	.000	.000-.001 (184%)	0.94	0.38	Black bullhead
835	601-1068	(28%)	.035	.022-.047 (36%)	71.36	28.88	Black crappie
7097	5858-8337	(17%)	.209	.140-.279 (33%)	606.85	245.59	Bluegill
3	0-10	(208%)	.000	.000-.000 (208%)	0.27	0.11	Brown bullhead
63	15-112	(76%)	.001	.000-.002 (79%)	5.40	2.19	Bluegill x
Redear s			****	NOT RECORDED ****			Carp
930	735-1124	(21%)	.027	.019-.036 (30%)	79.49	32.17	Channel catfish
catfish			****	NOT RECORDED ****			Flathead
			****	NOT RECORDED ****			Golden shiner
22	0-49	(123%)	.000	.000-.001 (138%)	1.89	0.76	Green sunfish
68	0-213	(212%)	.003	.000-.010 (212%)	5.83	2.36	Gizzard shad
114	65-164	(43%)	.003	.001-.005 (58%)	9.78	3.96	Largemouth bass
169	87-251	(48%)	.003	.001-.005 (61%)	14.47	5.85	Redear sunfish
4	0-11	(176%)	.000	.000-.000 (158%)	0.33	0.13	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
1337	1170-1504	(12%)	.041	.032-.050 (22%)	114.32	0.144	All species
8	0-20	(145%)	.000	.000-.000 (183%)	0.69	0.738	Black bullhead
167	119-215	(29%)	.008	.004-.011 (44%)	14.30	0.201	Black crappie
631	523-739	(17%)	.019	.012-.025 (34%)	53.96	0.089	Bluegill
2	0-6	(208%)	.000	.000-.000 (208%)	0.17	0.644	Brown bullhead
12	3-22	(76%)	.000	.000-.000 (77%)	1.05	0.195	Bluegill x
Redear s			****	NOT RECORDED ****			Carp
353	264-441	(25%)	.010	.007-.014 (34%)	30.15	0.380	Channel catfish
catfish			****	NOT RECORDED ****			Flathead
			****	NOT RECORDED ****			Golden shiner
2	0-5	(157%)	.000	.000-.000 (165%)	0.15	0.080	Green sunfish
1	0-3	(163%)	.000	.000-.000 (167%)	0.11	0.019	Gizzard shad
118	64-171	(46%)	.003	.001-.006 (66%)	10.06	1.032	Largemouth bass
42	22-62	(47%)	.001	.000-.001 (55%)	3.61	0.250	Redear sunfish
1	0-2	(176%)	.000	.000-.000 (158%)	0.06	0.236	White crappie

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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
2948	2580-3315 (12%)	.091	.071-.111 (22%)	102.00	0.316	All species
18	0-44 (145%)	.000	.000-.001 (183%)	0.62	1.627	Black bullhead
369	262-475 (29%)	.017	.009-.024 (44%)	12.76	0.442	Black crappie
1391	1154-1629 (17%)	.041	.027-.055 (34%)	48.15	0.196	Bluegill
4	0-13 (208%)	.000	.000-.000 (208%)	0.15	1.420	Brown bullhead
27	6-48 (76%)	.000	.000-.001 (77%)	0.94	0.431	Bluegill x
Redear s		****	NOT RECORDED ****			Carp
778	583-972 (25%)	.023	.015-.031 (34%)	26.90	0.837	Channel catfish
catfish		****	NOT RECORDED ****			Flathead
		****	NOT RECORDED ****			Golden shiner
4	0-10 (157%)	.000	.000-.000 (165%)	0.13	0.177	Green sunfish
3	0-8 (163%)	.000	.000-.000 (167%)	0.10	0.042	Gizzard shad
259	141-378 (46%)	.008	.003-.012 (66%)	8.98	2.276	Largemouth bass
93	50-137 (47%)	.002	.001-.003 (55%)	3.22	0.551	Redear sunfish
2	0-4 (176%)	.000	.000-.000 (158%)	0.05	0.521	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
37646	34088-41205	(9%)	1.054	.870-1.238	(17%)	3218.831302.64	All species
57	0-127	(121%)	.002	.000-.007	(188%)	4.92 1.99	Black bullhead
1655	1246-2064	(25%)	.090	.042-.137	(53%)	141.51 57.27	Black crappie
30200	26941-33459	(11%)	.773	.604-.942	(22%)	2582.141044.98	Bluegill
3	0-10	(208%)	.000	.000-.000	(208%)	0.27 0.11	Brown bullhead
100	46-154	(54%)	.007	.000-.014	(101%)	8.54 3.46	Bluegill x
Redear s							
5	0-13	(142%)	.000	.000-.001	(147%)	0.46 0.19	Carp
2233	1881-2586	(16%)	.056	.045-.068	(20%)	190.97 77.28	Channel catfish
13	0-34	(156%)	.000	.000-.001	(199%)	1.15 0.46	Flathead
catfish							
7	0-24	(220%)	.000	.000-.001	(220%)	0.64 0.26	Golden shiner
38	5-70	(86%)	.001	.000-.002	(103%)	3.24 1.31	Green sunfish
108	0-257	(138%)	.004	.000-.011	(172%)	9.23 3.73	Gizzard shad
2962	2416-3509	(18%)	.115	.084-.147	(27%)	253.28 102.50	Largemouth bass
257	147-367	(43%)	.005	.002-.007	(49%)	21.97 8.89	Redear sunfish
6	0-22	(251%)	.000	.000-.000	(160%)	0.53 0.21	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
4074	3642-4507	(11%)	.142	.116-.167	(18%)	348.37 0.108	All species
12	0-24	(107%)	.000	.000-.001	(115%)	0.99 0.202	Black bullhead
261	193-329	(26%)	.016	.006-.025	(62%)	22.33 0.158	Black crappie
1655	1459-1851	(12%)	.046	.034-.058	(26%)	141.51 0.055	Bluegill
2	0-6	(208%)	.000	.000-.000	(208%)	0.17 0.644	Brown bullhead
15	5-24	(64%)	.001	.000-.001	(90%)	1.27 0.150	Bluegill x
Redear s							
0	0-1	(182%)	.000	.000-.000	(143%)	0.04 0.099	Carp
540	438-642	(19%)	.015	.012-.019	(25%)	46.19 0.242	Channel catfish
2	0-5	(156%)	.000	.000-.000	(149%)	0.16 0.141	Flathead
catfish							
0	0-0	(223%)	.000	.000-.000	(223%)	0.01 0.015	Golden shiner
2	0-5	(122%)	.000	.000-.000	(115%)	0.20 0.063	Green sunfish
4	0-9	(129%)	.000	.000-.000	(103%)	0.33 0.036	Gizzard shad
1528	1186-1870	(22%)	.063	.042-.084	(33%)	130.61 0.516	Largemouth bass
53	31-74	(42%)	.001	.001-.001	(46%)	4.49 0.205	Redear sunfish
1	0-4	(246%)	.000	.000-.000	(158%)	0.09 0.171	White crappie

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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
8982	8029-9936	(11%)	.312	.257-.368 (18%)	310.81	0.239	All species
25	0-52	(107%)	.001	.000-.001 (115%)	0.88	0.446	Black bullhead
576	425-726	(26%)	.034	.013-.056 (62%)	19.92	0.348	Black crappie
3649	3216-4082	(12%)	.101	.074-.127 (26%)	126.25	0.121	Bluegill
4	0-13	(208%)	.000	.000-.000 (208%)	0.15	1.420	Brown bullhead
33	12-54	(64%)	.001	.000-.002 (90%)	1.13	0.330	Bluegill x
Redear s							
1	0-3	(182%)	.000	.000-.000 (143%)	0.04	0.218	Carp
1191	966-1416	(19%)	.034	.025-.042 (25%)	41.21	0.533	Channel catfish
4	0-10	(156%)	.000	.000-.000 (149%)	0.14	0.310	Flathead
catfish							
0	0-1	(220%)	.000	.000-.000 (220%)	0.01	0.033	Golden shiner
5	0-11	(122%)	.000	.000-.000 (115%)	0.18	0.140	Green sunfish
8	0-19	(129%)	.000	.000-.001 (103%)	0.29	0.079	Gizzard shad
3368	2614-4122	(22%)	.138	.092-.184 (33%)	116.53	1.137	Largemouth bass
116	68-164	(42%)	.002	.001-.003 (46%)	4.01	0.452	Redear sunfish
2	0-8	(246%)	.000	.000-.000 (158%)	0.08	0.377	White crappie

