

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1991 CREEL SURVEY RESULTS

1991 JACKSONVILLE
 455 ACRES
 REGION 4, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 04/09/1991 through 10/31/1991
 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: 292/618 = 47.2%

NUMBER OF INTERVIEWS: 1895

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	9179	8004-10355 (13%)	20	18-23 (13%)	16%
	HOLIDAY	9115	8265-9964 (9%)	20	18-22 (9%)	42%
	TOTAL	18294	16843-19745 (8%)	40	37-43 (8%)	29%
SHORE	WEEKDAY	4920	4247-5592 (14%)	11	9-12 (14%)	7%
	HOLIDAY	4378	3868-4888 (12%)	10	9-11 (12%)	18%
	TOTAL	9297	8453-10141 (9%)	20	19-22 (9%)	12%
BOAT & SHORE	WEEKDAY	14099	12745-15454 (10%)	31	28-34 (10%)	13%
	HOLIDAY	13492	12501-14483 (7%)	30	27-32 (7%)	34%
	TOTAL	27591	25913-29270 (6%)	61	57-64 (6%)	23%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
4551	3623-5478	(20%)	.145	.089-.201 (38%)	24.71	10.00	All species
2	0-9	(318%)	.000	.000-.000 (278%)	0.01	0.00	Black bullhead
46	0-148	(220%)	.002	.000-.005 (220%)	0.25	0.10	Black crappie
1300	832-1769	(36%)	.035	.021-.049 (41%)	7.06	2.86	Bluegill
2	0-6	(216%)	.000	.000-.000 (214%)	0.01	0.00	Bluegill x
Redear s							
32	0-85	(164%)	.001	.000-.002 (124%)	0.18	0.07	Carp
656	454-858	(31%)	.022	.012-.031 (43%)	3.56	1.44	Channel catfish
831	533-1130	(36%)	.024	.012-.037 (51%)	4.52	1.83	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
401	273-529	(32%)	.007	.003-.011 (59%)	2.18	0.88	Largemouth bass
17	0-35	(106%)	.000	.000-.001 (162%)	0.09	0.04	Redear sunfish
15	0-50	(231%)	.000	.000-.001 (231%)	0.08	0.03	Striped bass
hybrid							
			****	NOT RECORDED ****			White bass
243	95-391	(61%)	.009	.000-.026 (180%)	1.32	0.53	White crappie
758	418-1098	(45%)	.026	.009-.044 (67%)	4.12	1.67	Yellow bullhead
247	0-615	(149%)	.019	.000-.061 (214%)	1.34	0.54	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
1296	1049-1543	(19%)	.035	.024-.045 (30%)	7.04	0.285	All species
1	0-5	(278%)	.000	.000-.000 (278%)	0.01	0.667	Black bullhead
3	0-10	(218%)	.000	.000-.000 (218%)	0.02	0.068	Black crappie
101	53-149	(47%)	.002	.001-.003 (43%)	0.55	0.078	Bluegill
1	0-2	(216%)	.000	.000-.000 (216%)	0.00	0.552	Bluegill x
Redear s							
19	0-43	(125%)	.001	.000-.001 (121%)	0.10	0.591	Carp
402	268-536	(33%)	.013	.007-.019 (46%)	2.19	0.613	Channel catfish
52	34-70	(35%)	.001	.001-.002 (40%)	0.28	0.062	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
430	293-567	(32%)	.008	.003-.012 (58%)	2.33	1.075	Largemouth bass
3	0-6	(128%)	.000	.000-.000 (230%)	0.01	0.162	Redear sunfish
8	0-25	(226%)	.000	.000-.000 (231%)	0.04	0.517	Striped bass
hybrid							
			****	NOT RECORDED ****			White bass
55	2-108	(96%)	.002	.000-.008 (220%)	0.30	0.229	White crappie
215	122-308	(43%)	.007	.002-.011 (64%)	1.17	0.284	Yellow bullhead
6	0-15	(156%)	.000	.000-.002 (217%)	0.03	0.024	Yellow bass

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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
2857	2313-3401	(19%)	.077	.054-.100 (30%)	6.28	0.628	All species
3	0-11	(278%)	.000	.000-.000 (278%)	0.01	1.470	Black bullhead
7	0-22	(218%)	.000	.000-.001 (220%)	0.02	0.149	Black crappie
223	117-329	(47%)	.005	.003-.007 (43%)	0.49	0.172	Bluegill
1	0-4	(216%)	.000	.000-.000 (216%)	0.00	1.218	Bluegill x
Redear s							
42	0-94	(125%)	.001	.000-.003 (121%)	0.09	1.304	Carp
887	591-1183	(33%)	.028	.015-.041 (46%)	1.95	1.352	Channel catfish
114	75-154	(35%)	.003	.002-.004 (40%)	0.25	0.138	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
948	646-1249	(32%)	.017	.007-.026 (58%)	2.08	2.369	Largemouth bass
6	0-13	(128%)	.000	.000-.000 (230%)	0.01	0.357	Redear sunfish
17	0-56	(231%)	.000	.000-.001 (226%)	0.04	1.139	Striped bass
hybrid							
			****	NOT RECORDED ****			White bass
122	5-239	(96%)	.005	.000-.017 (220%)	0.27	0.504	White crappie
474	269-679	(43%)	.015	.005-.025 (64%)	1.04	0.626	Yellow bullhead
13	0-33	(156%)	.001	.000-.003 (217%)	0.03	0.053	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
35166	30379-39953 (14%)	1.055	.903-1.207(14%)	190.98	77.29	All species
2	0-9 (318%)	.000	.000-.000 (278%)	0.01	0.00	Black bullhead
46	0-148 (220%)	.002	.000-.005 (220%)	0.25	0.10	Black crappie
7896	5792-10000 (27%)	.261	.196-.327 (25%)	42.88	17.35	Bluegill
2	0-6 (216%)	.000	.000-.000 (214%)	0.01	0.00	Bluegill x
Redear s						
69	0-144 (108%)	.001	.000-.003 (90%)	0.38	0.15	Carp
1646	945-2347 (43%)	.066	.028-.104 (58%)	8.94	3.62	Channel catfish
3259	1856-4663 (43%)	.089	.050-.127 (44%)	17.70	7.16	Green sunfish
2	0-6 (278%)	.000	.000-.000 (318%)	0.01	0.00	Gizzard shad
11660	10216-13105 (12%)	.277	.246-.309 (11%)	63.33	25.63	Largemouth bass
43	5-80 (88%)	.001	.000-.003 (107%)	0.23	0.09	Redear sunfish
102	0-222 (117%)	.004	.000-.013 (204%)	0.56	0.22	Striped bass
hybrid						
121	0-458 (278%)	.002	.000-.006 (257%)	0.66	0.27	White bass
1608	983-2232 (39%)	.060	.004-.117 (94%)	8.73	3.53	White crappie
1911	1096-2727 (43%)	.071	.036-.105 (49%)	10.38	4.20	Yellow bullhead
6797	5113-8482 (25%)	.220	.152-.288 (31%)	36.91	14.94	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
6988	6237-7738 (11%)	.182	.162-.203 (11%)	37.95	0.199	All species
1	0-5 (278%)	.000	.000-.000 (278%)	0.01	0.667	Black bullhead
3	0-10 (218%)	.000	.000-.000 (218%)	0.02	0.068	Black crappie
340	246-433 (28%)	.010	.008-.012 (24%)	1.84	0.043	Bluegill
1	0-2 (216%)	.000	.000-.000 (216%)	0.00	0.552	Bluegill x
Redear s						
44	0-96 (117%)	.001	.000-.002 (92%)	0.24	0.643	Carp
469	328-610 (30%)	.016	.009-.022 (40%)	2.55	0.285	Channel catfish
146	95-196 (35%)	.004	.002-.005 (32%)	0.79	0.045	Green sunfish
0	0-0 (278%)	.000	.000-.000 (318%)	0.00	0.059	Gizzard shad
5301	4648-5954 (12%)	.128	.112-.145 (13%)	28.79	0.455	Largemouth bass
4	0-8 (96%)	.000	.000-.000 (124%)	0.02	0.103	Redear sunfish
36	4-68 (88%)	.001	.000-.003 (178%)	0.20	0.355	Striped bass
hybrid						
5	0-16 (257%)	.000	.000-.000 (257%)	0.03	0.038	White bass
166	59-273 (64%)	.007	.000-.017 (162%)	0.90	0.103	White crappie
335	194-475 (42%)	.011	.006-.016 (48%)	1.82	0.175	Yellow bullhead
137	96-178 (30%)	.005	.003-.006 (35%)	0.75	0.020	Yellow bass

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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
15405	13751-17060 (11%)	.402	.356-.447 (11%)	33.86	0.438	All species
3	0-11 (278%)	.000	.000-.000 (278%)	0.01	1.470	Black bullhead
7	0-22 (218%)	.000	.000-.001 (220%)	0.02	0.149	Black crappie
749	542-956 (28%)	.022	.017-.027 (24%)	1.65	0.095	Bluegill
1	0-4 (216%)	.000	.000-.000 (216%)	0.00	1.218	Bluegill x
Redear s						
98	0-213 (117%)	.002	.000-.004 (92%)	0.21	1.417	Carp
1033	722-1344 (30%)	.034	.021-.048 (40%)	2.27	0.628	Channel catfish
321	210-433 (35%)	.008	.005-.010 (32%)	0.71	0.099	Green sunfish
0	0-0 (278%)	.000	.000-.000 (318%)	0.00	0.130	Gizzard shad
11686	10246-13126 (12%)	.283	.248-.319 (13%)	25.68	1.002	Largemouth bass
10	0-19 (96%)	.000	.000-.001 (124%)	0.02	0.227	Redear sunfish
80	10-150 (88%)	.003	.000-.008 (178%)	0.18	0.783	Striped bass
hybrid						
10	0-36 (257%)	.000	.000-.001 (278%)	0.02	0.084	White bass
367	130-603 (64%)	.015	.000-.038 (162%)	0.81	0.228	White crappie
737	428-1047 (42%)	.024	.012-.036 (48%)	1.62	0.386	Yellow bullhead
303	212-393 (30%)	.010	.007-.014 (35%)	0.67	0.045	Yellow bass