

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1992 CREEL SURVEY RESULTS

1992 CHARLESTON SIDE C
 346 ACRES
 REGION 3, DISTRICT 9

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1992 through 11/15/1992
 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: 332/738 = 45.0%

NUMBER OF INTERVIEWS: 1722

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	6068	5296-6840 (13%)	18	15-20 (13%)	10%
	HOLIDAY	4697	4189-5205 (11%)	14	12-15 (11%)	23%
	TOTAL	10765	9841-11689 (9%)	31	28-34 (9%)	16%
SHORE	WEEKDAY	7167	6562-7772 (8%)	21	19-22 (8%)	12%
	HOLIDAY	3748	3417-4079 (9%)	11	10-12 (9%)	28%
	TOTAL	10915	10226-11604 (6%)	32	30-34 (6%)	18%
BOAT & SHORE	WEEKDAY	13235	12254-14216 (7%)	38	35-41 (7%)	11%
	HOLIDAY	8445	7839-9051 (7%)	24	23-26 (7%)	25%
	TOTAL	21680	20527-22833 (5%)	63	59-66 (5%)	17%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
13391	8503-18279	(37%)	.408	.299-.518 (27%)	95.63	38.70	All species
2	0-6	(236%)	.000	.000-.000 (245%)	0.01	0.00	Black bullhead
611	173-1049	(72%)	.020	.005-.034 (76%)	4.36	1.77	Black crappie
4282	0-8928	(109%)	.097	.002-.192 (98%)	30.58	12.37	Bluegill
9	0-28	(225%)	.001	.000-.002 (258%)	0.06	0.03	Carp
3277	2675-3879	(18%)	.132	.095-.169 (28%)	23.40	9.47	Channel catfish
			****	NOT RECORDED ****			Flathead catfish
49	3-95	(94%)	.001	.000-.002 (84%)	0.35	0.14	Green sunfish
324	194-454	(40%)	.008	.005-.011 (36%)	2.31	0.94	Largemouth bass
113	28-198	(75%)	.005	.001-.008 (88%)	0.81	0.33	Striped bass x Whit
2	0-5	(231%)	.000	.000-.001 (226%)	0.01	0.00	Quillback
11	0-29	(154%)	.001	.000-.002 (170%)	0.08	0.03	Warmouth
4708	3184-6232	(32%)	.144	.085-.204 (41%)	33.62	13.61	White crappie
4	0-13	(236%)	.000	.000-.000 (236%)	0.03	0.01	Yellow bullhead
			****	NOT RECORDED ****			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
2632	2128-3136	(19%)	.091	.071-.111 (22%)	18.80	0.197	All species
0	0-0	(245%)	.000	.000-.000 (236%)	0.00	0.022	Black bullhead
78	19-138	(75%)	.003	.001-.005 (79%)	0.56	0.128	Black crappie
245	0-502	(105%)	.006	.000-.012 (93%)	1.75	0.057	Bluegill
2	0-4	(156%)	.000	.000-.000 (225%)	0.01	0.173	Carp
1210	893-1528	(26%)	.048	.032-.064 (32%)	8.64	0.369	Channel catfish
			****	NOT RECORDED ****			Flathead catfish
2	0-4	(89%)	.000	.000-.000 (84%)	0.02	0.045	Green sunfish
291	168-414	(42%)	.008	.005-.011 (38%)	2.08	0.900	Largemouth bass
202	35-370	(83%)	.007	.001-.013 (81%)	1.44	1.787	Striped bass x Whit
1	0-4	(231%)	.000	.000-.000 (231%)	0.01	0.817	Quillback
1	0-2	(161%)	.000	.000-.000 (154%)	0.01	0.083	Warmouth
598	376-820	(37%)	.019	.004-.034 (79%)	4.27	0.127	White crappie
1	0-3	(245%)	.000	.000-.000 (245%)	0.01	0.235	Yellow bullhead
			****	NOT RECORDED ****			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
5802	4691-6914 (19%)	.201	.158-.244 (22%)	16.77	0.433	All species
0	0-0 (236%)	.000	.000-.000 (245%)	0.00	0.049	Black bullhead
173	43-303 (75%)	.006	.001-.010 (79%)	0.50	0.283	Black crappie
540	0-1108 (105%)	.013	.001-.026 (93%)	1.56	0.126	Bluegill
3	0-9 (156%)	.000	.000-.001 (225%)	0.01	0.382	Carp
2668	1968-3368 (26%)	.106	.072-.140 (32%)	7.71	0.814	Channel catfish
		****	NOT RECORDED ****			Flathead catfish
5	1-9 (89%)	.000	.000-.000 (84%)	0.01	0.100	Green sunfish
642	371-913 (42%)	.017	.011-.024 (38%)	1.86	1.983	Largemouth bass
446	76-815 (83%)	.016	.003-.028 (81%)	1.29	3.940	Striped bass x Whit
3	0-10 (231%)	.000	.000-.001 (231%)	0.01	1.802	Quillback
2	0-5 (161%)	.000	.000-.000 (154%)	0.01	0.183	Warmouth
1319	829-1808 (37%)	.042	.009-.076 (79%)	3.81	0.280	White crappie
2	0-7 (245%)	.000	.000-.000 (236%)	0.01	0.519	Yellow bullhead
		****	NOT RECORDED ****			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	
36108	29254-42961	(19%)	1.208	1.044-1.373	(14%)	257.87	104.36	All species
183	78-287	(57%)	.005	.002-.008	(53%)	1.30	0.53	Black bullhead
2275	900-3651	(60%)	.059	.028-.090	(53%)	16.25	6.58	Black crappie
7502	1616-13388	(78%)	.197	.073-.322	(63%)	53.58	21.68	Bluegill
65	20-110	(69%)	.005	.000-.014	(187%)	0.47	0.19	Carp
10035	8833-11238	(12%)	.422	.362-.483	(14%)	71.67	29.00	Channel catfish
1	0-4	(210%)	.000	.000-.000	(211%)	0.01	0.00	Flathead catfish
755	451-1059	(40%)	.025	.014-.036	(44%)	5.39	2.18	Green sunfish
2000	1564-2436	(22%)	.064	.051-.078	(21%)	14.29	5.78	Largemouth bass
758	293-1224	(61%)	.025	.012-.038	(51%)	5.42	2.19	Striped bass x Whit
29	0-71	(147%)	.001	.000-.002	(129%)	0.21	0.08	Quillback
26	0-62	(137%)	.001	.000-.003	(125%)	0.19	0.08	Warmouth
11183	8424-13942	(25%)	.362	.265-.459	(27%)	79.87	32.32	White crappie
26	0-60	(129%)	.001	.000-.001	(127%)	0.19	0.08	Yellow bullhead
1268	0-2742	(116%)	.041	.005-.078	(88%)	9.05	3.66	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	
4188	3464-4911	(17%)	.144	.122-.167	(15%)	29.91	0.116	All species
12	5-20	(58%)	.000	.000-.001	(64%)	0.09	0.068	Black bullhead
137	59-216	(57%)	.004	.001-.006	(63%)	0.98	0.060	Black crappie
340	52-627	(85%)	.009	.003-.015	(67%)	2.43	0.045	Bluegill
25	0-53	(109%)	.001	.000-.004	(198%)	0.18	0.386	Carp
1629	1298-1960	(20%)	.065	.049-.081	(25%)	11.63	0.162	Channel catfish
0	0-0	(210%)	.000	.000-.000	(211%)	0.00	0.014	Flathead catfish
27	15-40	(46%)	.001	.001-.001	(38%)	0.19	0.036	Green sunfish
657	480-834	(27%)	.019	.015-.024	(23%)	4.69	0.329	Largemouth bass
488	224-752	(54%)	.017	.008-.025	(51%)	3.49	0.644	Striped bass x Whit
31	0-78	(148%)	.001	.000-.002	(151%)	0.22	1.093	Quillback
2	0-6	(143%)	.000	.000-.000	(127%)	0.02	0.091	Warmouth
798	550-1046	(31%)	.026	.011-.040	(55%)	5.70	0.071	White crappie
2	0-6	(147%)	.000	.000-.000	(148%)	0.02	0.088	Yellow bullhead
37	0-90	(143%)	.001	.000-.003	(130%)	0.26	0.029	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
9232	7636-10828	(17%)	.319	.270-.368 (15%)	26.68	0.256	All species
27	12-43	(58%)	.001	.000-.001 (64%)	0.08	0.150	Black bullhead
303	130-476	(57%)	.009	.003-.014 (63%)	0.88	0.133	Black crappie
749	115-1383	(85%)	.020	.006-.033 (67%)	2.16	0.100	Bluegill
56	0-116	(109%)	.003	.000-.009 (198%)	0.16	0.852	Carp
3592	2862-4321	(20%)	.143	.108-.179 (25%)	10.38	0.358	Channel catfish
0	0-0	(210%)	.000	.000-.000 (210%)	0.00	0.031	Flathead catfish
60	32-88	(46%)	.002	.001-.002 (38%)	0.17	0.079	Green sunfish
1449	1058-1839	(27%)	.043	.033-.053 (23%)	4.19	0.724	Largemouth bass
1077	495-1659	(54%)	.037	.018-.056 (51%)	3.11	1.419	Striped bass x Whit
69	0-172	(148%)	.002	.000-.004 (151%)	0.20	2.411	Quillback
5	0-13	(143%)	.000	.000-.000 (127%)	0.02	0.200	Warmouth
1759	1212-2306	(31%)	.057	.025-.088 (55%)	5.08	0.157	White crappie
5	0-13	(147%)	.000	.000-.000 (148%)	0.01	0.195	Yellow bullhead
82	0-198	(143%)	.002	.000-.006 (130%)	0.24	0.064	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	2.8	2.5-3.0	(8%)	0.5	7.0	173
SHORE	1.8	1.6-2.0	(11%)	0.5	4.1	111
BOAT & SHORE	2.4	2.2-2.5	(7%)	0.5	7.0	284
MILES TRAVELED	10.4	9.2-11.6	(12%)	1	220	1634
SUCCESS RATING (1-10)	3.1	3.0-3.2	(4%)	1	10	1660

*52 samples were from split interviews of completed trips.
17.0% of all 1669 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 8 out of 1669 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	205	238	41	16	1					
SHORE INTERVIEWS	829	257	67	14	1					

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

361 (21.6%)	ANY	All species
5 (0.3%)	BLC	Black crappie
36 (2.2%)	BLG	Bluegill
5 (0.3%)	CAP	Carp
690 (41.3%)	CCF	Channel catfish
186 (11.1%)	CRP	Crappie spp.
289 (17.3%)	LMB	Largemouth bass
88 (5.3%)	SBH	Striped bass x White bass hybrid (Wiper)
9 (0.5%)	WHC	White crappie

