

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

1992 DOLAN
 72 ACRES
 REGION 5, DISTRICT 16

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: 324/738 = 43.9%

NUMBER OF INTERVIEWS: 817

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	1800	1421-2178 (21%)	25	20-30 (21%)	15%
	HOLIDAY	1308	1028-1589 (21%)	18	14-22 (21%)	30%
	TOTAL	3108	2637-3579 (15%)	43	37-50 (15%)	21%
SHORE	WEEKDAY	3147	2577-3717 (18%)	44	36-52 (18%)	13%
	HOLIDAY	2264	1787-2742 (21%)	32	25-38 (21%)	28%
	TOTAL	5412	4668-6155 (14%)	76	65-86 (14%)	19%
BOAT & SHORE	WEEKDAY	4947	4263-5631 (14%)	69	60-79 (14%)	14%
	HOLIDAY	3573	3019-4127 (16%)	50	42-58 (16%)	29%
	TOTAL	8520	7640-9400 (10%)	119	107-131 (10%)	20%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
17895	11941-23848 (33%)	1.060	.760-1.361 (28%)	618.44	250.28	All species
116	23-210 (80%)	.008	.000-.019 (147%)	4.02	1.63	Black crappie
10333	5248-15418 (49%)	.533	.310-.756 (42%)	357.10	144.52	Bluegill
2088	1524-2652 (27%)	.161	.116-.205 (28%)	72.15	29.20	Channel catfish
		****	NOT RECORDED ****			Golden shiner
		****	NOT RECORDED ****			Green sunfish
336	153-518 (54%)	.035	.010-.060 (71%)	11.60	4.70	Largemouth bass
1368	0-2852 (108%)	.070	.000-.153 (118%)	47.28	19.13	Redear sunfish
9	0-22 (155%)	.001	.000-.002 (204%)	0.30	0.12	Walleye
17	0-34 (105%)	.000	.000-.001 (139%)	0.58	0.23	Warmouth
3395	2142-4647 (37%)	.239	.119-.358 (50%)	117.32	47.48	White crappie
133	52-213 (61%)	.006	.002-.010 (70%)	4.59	1.86	Yellow bullhead
101	19-183 (81%)	.008	.000-.018 (117%)	3.49	1.41	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
2685	2139-3231 (20%)	.193	.149-.236 (23%)	92.79	0.150	All species
17	3-30 (79%)	.001	.000-.002 (125%)	0.58	0.144	Black crappie
791	415-1167 (48%)	.041	.025-.058 (40%)	27.33	0.077	Bluegill
937	683-1191 (27%)	.073	.050-.096 (32%)	32.37	0.449	Channel catfish
		****	NOT RECORDED ****			Golden shiner
		****	NOT RECORDED ****			Green sunfish
364	170-559 (53%)	.041	.007-.075 (83%)	12.60	1.088	Largemouth bass
154	5-303 (97%)	.008	.000-.017 (114%)	5.32	0.113	Redear sunfish
8	0-22 (173%)	.001	.000-.002 (201%)	0.28	1.026	Walleye
2	0-5 (99%)	.000	.000-.000 (134%)	0.08	0.143	Warmouth
369	247-491 (33%)	.026	.014-.038 (46%)	12.75	0.109	White crappie
34	12-56 (65%)	.001	.001-.002 (64%)	1.18	0.258	Yellow bullhead
9	2-16 (77%)	.001	.000-.001 (105%)	0.31	0.089	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
5920	4715-7124	(20%)	.425	.329-.521 (23%)	82.79	0.331	All species
37	8-66	(79%)	.002	.000-.005 (125%)	0.51	0.317	Black crappie
1744	915-2572	(48%)	.091	.054-.127 (40%)	24.38	0.169	Bluegill
2065	1506-2625	(27%)	.160	.109-.211 (32%)	28.88	0.990	Channel catfish
			****	NOT RECORDED ****			Golden shiner
			****	NOT RECORDED ****			Green sunfish
804	375-1232	(53%)	.091	.016-.166 (83%)	11.24	2.399	Largemouth bass
339	12-667	(97%)	.017	.000-.037 (114%)	4.74	0.248	Redear sunfish
18	0-49	(173%)	.001	.000-.004 (201%)	0.25	2.262	Walleye
5	0-10	(99%)	.000	.000-.000 (134%)	0.07	0.315	Warmouth
813	544-1083	(33%)	.058	.032-.085 (46%)	11.38	0.240	White crappie
75	26-124	(65%)	.003	.001-.005 (64%)	1.05	0.570	Yellow bullhead
20	4-35	(77%)	.001	.000-.003 (105%)	0.27	0.196	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
23005	16833-29176	(27%)	1.480	1.137-1.824	(23%)	795.04	321.75	All species
116	23-210	(80%)	.008	.000-.019	(147%)	4.02	1.63	Black crappie
12315	7028-17603	(43%)	.682	.407-.956	(40%)	425.60	172.24	Bluegill
3142	2411-3873	(23%)	.271	.196-.346	(28%)	108.60	43.95	Channel catfish
4	0-15	(245%)	.000	.000-.001	(236%)	0.15	0.06	Golden shiner
3	0-12	(318%)	.000	.000-.000	(430%)	0.10	0.04	Green sunfish
573	342-804	(40%)	.060	.030-.089	(50%)	19.81	8.02	Largemouth bass
1387	0-2871	(107%)	.073	.000-.156	(114%)	47.94	19.40	Redear sunfish
17	0-34	(103%)	.001	.000-.003	(130%)	0.59	0.24	Walleye
17	0-34	(105%)	.000	.000-.001	(139%)	0.58	0.23	Warmouth
4771	3501-6041	(27%)	.339	.214-.465	(37%)	164.88	66.73	White crappie
550	356-745	(35%)	.037	.016-.059	(57%)	19.02	7.70	Yellow bullhead
108	26-190	(76%)	.009	.000-.018	(107%)	3.74	1.52	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
3122	2558-3686	(18%)	.229	.186-.272	(19%)	107.89	0.136	All species
17	3-30	(79%)	.001	.000-.002	(125%)	0.58	0.144	Black crappie
896	513-1279	(43%)	.048	.030-.066	(37%)	30.97	0.073	Bluegill
1014	754-1274	(26%)	.080	.057-.103	(29%)	35.05	0.323	Channel catfish
1	0-3	(245%)	.000	.000-.000	(236%)	0.03	0.214	Golden shiner
0	0-1	(430%)	.000	.000-.000	(430%)	0.01	0.100	Green sunfish
444	235-653	(47%)	.050	.017-.084	(67%)	15.36	0.776	Largemouth bass
157	8-306	(95%)	.008	.000-.017	(110%)	5.43	0.113	Redear sunfish
9	0-23	(165%)	.001	.000-.002	(195%)	0.30	0.539	Walleye
2	0-5	(99%)	.000	.000-.000	(134%)	0.08	0.143	Warmouth
469	341-596	(27%)	.034	.021-.046	(37%)	16.20	0.098	White crappie
103	67-139	(35%)	.006	.003-.010	(51%)	3.56	0.188	Yellow bullhead
10	3-16	(72%)	.001	.000-.001	(97%)	0.33	0.088	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
6883	5639-8127	(18%)	.504	.409-.599 (19%)	96.26	0.299	All species
37	8-66	(79%)	.002	.000-.005 (125%)	0.51	0.317	Black crappie
1976	1130-2821	(43%)	.105	.066-.144 (37%)	27.63	0.160	Bluegill
2236	1662-2810	(26%)	.176	.126-.227 (29%)	31.27	0.712	Channel catfish
2	0-7	(245%)	.000	.000-.000 (236%)	0.03	0.472	Golden shiner
0	0-2	(430%)	.000	.000-.000 (318%)	0.01	0.220	Green sunfish
980	519-1441	(47%)	.111	.036-.185 (67%)	13.70	1.710	Largemouth bass
346	18-674	(95%)	.018	.000-.038 (110%)	4.84	0.250	Redear sunfish
19	0-50	(165%)	.001	.000-.004 (195%)	0.27	1.189	Walleye
5	0-10	(99%)	.000	.000-.000 (134%)	0.07	0.315	Warmouth
1034	752-1315	(27%)	.074	.047-.102 (37%)	14.46	0.217	White crappie
227	148-307	(35%)	.014	.007-.022 (51%)	3.18	0.413	Yellow bullhead
21	6-36	(72%)	.002	.000-.003 (97%)	0.29	0.194	Yellow bass

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SAMPLING RATIO: 149/279 = 53.4%

NUMBER OF INTERVIEWS: 570

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	1085	787-1382 (27%)	15	11-19 (27%)	17%
	HOLIDAY	837	613-1061 (27%)	12	9-15 (27%)	34%
	TOTAL	1922	1549-2294 (19%)	27	22-32 (19%)	24%
SHORE	WEEKDAY	1746	1378-2114 (21%)	24	19-30 (21%)	15%
	HOLIDAY	1428	992-1863 (30%)	20	14-26 (30%)	32%
	TOTAL	3173	2621-3726 (17%)	44	37-52 (17%)	23%
BOAT & SHORE	WEEKDAY	2830	2357-3304 (17%)	40	33-46 (17%)	16%
	HOLIDAY	2265	1795-2734 (21%)	32	25-38 (21%)	33%
	TOTAL	5095	4428-5762 (13%)	71	62-81 (13%)	23%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
13998	8201-19794 (41%)	1.942	1.222-2.661 (37%)	483.75	195.77	All species
116	23-210 (80%)	.020	.000-.051 (147%)	4.02	1.63	Black crappie
8313	3385-13242 (59%)	.983	.499-1.466 (49%)	287.31	116.27	Bluegill
692	460-924 (34%)	.115	.069-.162 (40%)	23.90	9.67	Channel catfish
		****	NOT RECORDED ****			Golden shiner
		****	NOT RECORDED ****			Green sunfish
88	31-146 (65%)	.017	.006-.028 (64%)	3.05	1.23	Largemouth bass
1340	0-2822 (111%)	.183	.000-.402 (120%)	46.30	18.74	Redear sunfish
9	0-22 (155%)	.002	.000-.005 (204%)	0.30	0.12	Walleye
17	0-34 (105%)	.001	.000-.003 (139%)	0.58	0.23	Warmouth
3301	2051-4551 (38%)	.599	.284-.914 (53%)	114.08	46.17	White crappie
44	4-83 (91%)	.008	.000-.018 (119%)	1.51	0.61	Yellow bullhead
78	13-143 (83%)	.013	.000-.028 (111%)	2.70	1.09	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
1582	1114-2050 (30%)	.238	.173-.302 (27%)	54.68	0.113	All species
17	3-30 (79%)	.003	.000-.006 (125%)	0.58	0.144	Black crappie
623	262-984 (58%)	.073	.038-.108 (48%)	21.53	0.075	Bluegill
313	201-425 (36%)	.054	.022-.085 (59%)	10.81	0.453	Channel catfish
		****	NOT RECORDED ****			Golden shiner
		****	NOT RECORDED ****			Green sunfish
96	28-164 (70%)	.018	.006-.030 (67%)	3.32	1.092	Largemouth bass
151	2-299 (98%)	.020	.000-.044 (116%)	5.21	0.113	Redear sunfish
8	0-22 (173%)	.002	.000-.005 (201%)	0.28	1.026	Walleye
2	0-5 (99%)	.000	.000-.000 (134%)	0.08	0.143	Warmouth
355	233-476 (34%)	.065	.034-.096 (48%)	12.26	0.107	White crappie
10	0-24 (130%)	.002	.000-.004 (115%)	0.36	0.240	Yellow bullhead
7	1-13 (82%)	.001	.000-.002 (107%)	0.25	0.094	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
3488	2456-4520	(30%)	.524	.381-.667 (27%)	48.78	0.249	All species
37	8-66	(79%)	.006	.000-.013 (125%)	0.51	0.317	Black crappie
1374	578-2170	(58%)	.161	.084-.239 (48%)	19.21	0.165	Bluegill
690	442-937	(36%)	.118	.049-.188 (59%)	9.65	0.998	Channel catfish
			****	NOT RECORDED ****			Golden shiner
			****	NOT RECORDED ****			Green sunfish
212	63-361	(70%)	.040	.013-.067 (67%)	2.96	2.407	Largemouth bass
332	5-659	(98%)	.045	.000-.097 (116%)	4.65	0.248	Redear sunfish
18	0-49	(173%)	.003	.000-.010 (201%)	0.25	2.262	Walleye
5	0-10	(99%)	.000	.000-.001 (134%)	0.07	0.315	Warmouth
782	515-1049	(34%)	.143	.074-.212 (48%)	10.94	0.237	White crappie
23	0-52	(130%)	.004	.000-.008 (115%)	0.32	0.529	Yellow bullhead
16	3-29	(82%)	.003	.000-.005 (107%)	0.23	0.207	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
17190	11299-23080	(34%)	2.441	1.711-3.171 (30%)	594.06	240.41	All species
116	23-210	(80%)	.020	.000-.051 (147%)	4.02	1.63	Black crappie
9402	4394-14410	(53%)	1.100	.605-1.596 (45%)	324.93	131.50	Bluegill
1076	729-1424	(32%)	.162	.101-.224 (38%)	37.19	15.05	Channel catfish
4	0-15	(245%)	.001	.000-.002 (245%)	0.15	0.06	Golden shiner
3	0-12	(318%)	.000	.000-.001 (430%)	0.10	0.04	Green sunfish
206	85-326	(58%)	.044	.016-.072 (63%)	7.11	2.88	Largemouth bass
1354	0-2836	(109%)	.191	.000-.411 (115%)	46.78	18.93	Redear sunfish
17	0-34	(103%)	.003	.000-.007 (130%)	0.59	0.24	Walleye
17	0-34	(105%)	.001	.000-.003 (139%)	0.58	0.23	Warmouth
4655	3389-5920	(27%)	.863	.532-1.194 (38%)	160.86	65.10	White crappie
258	128-388	(50%)	.041	.020-.061 (50%)	8.92	3.61	Yellow bullhead
82	17-148	(80%)	.014	.000-.029 (105%)	2.85	1.15	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
1869	1390-2348	(26%)	.286	.222-.350 (22%)	64.59	0.109	All species
17	3-30	(79%)	.003	.000-.006 (125%)	0.58	0.144	Black crappie
698	332-1064	(52%)	.081	.045-.118 (45%)	24.12	0.074	Bluegill
350	228-473	(35%)	.058	.024-.093 (59%)	12.11	0.326	Channel catfish
1	0-3	(245%)	.000	.000-.000 (236%)	0.03	0.214	Golden shiner
0	0-1	(430%)	.000	.000-.000 (430%)	0.01	0.100	Green sunfish
134	36-232	(73%)	.028	.008-.048 (73%)	4.64	0.655	Largemouth bass
152	4-300	(98%)	.021	.000-.045 (112%)	5.26	0.112	Redear sunfish
9	0-23	(165%)	.002	.000-.005 (195%)	0.30	0.539	Walleye
2	0-5	(99%)	.000	.000-.000 (134%)	0.08	0.143	Warmouth
452	326-579	(28%)	.084	.052-.117 (39%)	15.63	0.097	White crappie
46	23-68	(50%)	.007	.003-.011 (54%)	1.58	0.177	Yellow bullhead
8	2-14	(79%)	.001	.000-.002 (101%)	0.26	0.093	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
4120	3065-5175	(26%)	.630	.489-.771 (22%)	57.63	0.240	All species
37	8-66	(79%)	.006	.000-.013 (125%)	0.51	0.317	Black crappie
1539	732-2346	(52%)	.180	.099-.260 (45%)	21.52	0.164	Bluegill
773	503-1042	(35%)	.129	.053-.204 (59%)	10.80	0.718	Channel catfish
2	0-7	(245%)	.000	.000-.001 (245%)	0.03	0.472	Golden shiner
0	0-2	(430%)	.000	.000-.000 (430%)	0.01	0.220	Green sunfish
296	80-512	(73%)	.061	.017-.106 (73%)	4.14	1.443	Largemouth bass
335	8-662	(98%)	.047	.000-.099 (112%)	4.69	0.248	Redear sunfish
19	0-50	(165%)	.003	.000-.010 (195%)	0.27	1.189	Walleye
5	0-10	(99%)	.000	.000-.001 (134%)	0.07	0.315	Warmouth
997	718-1276	(28%)	.185	.114-.257 (39%)	13.94	0.214	White crappie
101	51-151	(50%)	.016	.007-.025 (54%)	1.41	0.391	Yellow bullhead
17	3-30	(79%)	.003	.000-.005 (101%)	0.24	0.205	Yellow bass