

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1990 CREEL SURVEY RESULTS

1990 DOLAN
 72 ACRES
 REGION 5, DISTRICT 16

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1990 through 11/15/1990
 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: 362/738 = 49.1%

NUMBER OF INTERVIEWS: 1502

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	3882	3167-4598 (18%)	54	44-64 (18%)	17%
	HOLIDAY	3001	2296-3706 (23%)	42	32-52 (23%)	43%
	TOTAL	6884	5906-7861 (14%)	96	83-110 (14%)	28%
SHORE	WEEKDAY	4990	4251-5730 (15%)	70	59-80 (15%)	16%
	HOLIDAY	3184	2727-3640 (14%)	45	38-51 (14%)	37%
	TOTAL	8174	7305-9043 (11%)	114	102-126 (11%)	24%
BOAT & SHORE	WEEKDAY	8873	7844-9902 (12%)	124	110-138 (12%)	17%
	HOLIDAY	6185	5377-6992 (13%)	87	75-98 (13%)	40%
	TOTAL	15058	13750-16366 (9%)	211	192-229 (9%)	26%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
23251	18426-28076 (21%)	1.028	.849-1.207 (17%)	803.55	325.19	All species
1177	795-1558 (32%)	.070	.041-.099 (41%)	40.67	16.46	Black crappie
13220	9161-17279 (31%)	.550	.397-.704 (28%)	456.88	184.90	Bluegill
		****	NOT RECORDED			Carp
1793	1331-2256 (26%)	.099	.063-.135 (37%)	61.97	25.08	Channel catfish
35	6-63 (82%)	.001	.000-.002 (79%)	1.21	0.49	Green sunfish
269	94-444 (65%)	.014	.003-.024 (77%)	9.29	3.76	Largemouth bass
1411	836-1987 (41%)	.061	.022-.100 (64%)	48.77	19.74	Redear sunfish
27	0-61 (123%)	.002	.000-.004 (175%)	0.94	0.38	Walleye
407	231-584 (43%)	.013	.008-.018 (42%)	14.07	5.69	Warmouth
3967	2805-5130 (29%)	.178	.123-.234 (31%)	137.11	55.49	White crappie
4	0-13 (245%)	.000	.000-.001 (236%)	0.13	0.05	Walleye x
Sauger hy						
801	553-1049 (31%)	.030	.021-.039 (31%)	27.69	11.20	Yellow bullhead
139	37-242 (74%)	.010	.000-.023 (124%)	4.81	1.95	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
3966	3285-4647 (17%)	.176	.150-.203 (15%)	137.07	0.171	All species
254	173-336 (32%)	.016	.008-.024 (47%)	8.79	0.216	Black crappie
1144	794-1495 (31%)	.047	.034-.060 (28%)	39.54	0.087	Bluegill
		****	NOT RECORDED			Carp
976	612-1339 (37%)	.042	.030-.054 (29%)	33.71	0.544	Channel catfish
3	1-5 (80%)	.000	.000-.000 (74%)	0.10	0.081	Green sunfish
254	81-426 (68%)	.014	.002-.027 (89%)	8.76	0.946	Largemouth bass
168	101-235 (40%)	.007	.003-.012 (61%)	5.82	0.119	Redear sunfish
20	0-45 (126%)	.001	.000-.002 (153%)	0.69	0.735	Walleye
64	37-91 (43%)	.002	.001-.003 (41%)	2.21	0.157	Warmouth
677	477-876 (30%)	.031	.021-.041 (32%)	23.38	0.171	White crappie
1	0-2 (236%)	.000	.000-.000 (236%)	0.02	0.236	Walleye x
Sauger hy						
386	261-512 (32%)	.014	.010-.019 (33%)	13.36	0.482	Yellow bullhead
20	4-36 (79%)	.001	.000-.003 (131%)	0.69	0.143	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
8744	7243-10246 (17%)	.389	.332-.447 (15%)	122.30	0.376	All species
561	381-741 (32%)	.035	.019-.052 (47%)	7.85	0.477	Black crappie
2523	1750-3296 (31%)	.103	.074-.133 (28%)	35.28	0.191	Bluegill
		****	NOT RECORDED	****		Carp
2151	1349-2953 (37%)	.092	.065-.119 (29%)	30.08	1.200	Channel catfish
6	1-11 (80%)	.000	.000-.000 (74%)	0.08	0.178	Green sunfish
559	178-940 (68%)	.032	.004-.060 (89%)	7.82	2.086	Largemouth bass
371	224-518 (40%)	.016	.006-.026 (61%)	5.19	0.263	Redear sunfish
44	0-99 (126%)	.002	.000-.005 (153%)	0.61	1.621	Walleye
141	81-202 (43%)	.005	.003-.006 (41%)	1.97	0.347	Warmouth
1492	1052-1932 (30%)	.069	.047-.090 (32%)	20.86	0.376	White crappie
2	0-5 (236%)	.000	.000-.001 (236%)	0.02	0.520	Walleye x
Sauger hy						
852	576-1128 (32%)	.031	.021-.042 (33%)	11.92	1.064	Yellow bullhead
44	9-78 (79%)	.003	.000-.007 (131%)	0.61	0.316	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
30362	25146-35578	(17%)	1.369	1.176-1.563	(14%)	1049.29	424.64 All species
1286	883-1689	(31%)	.083	.048-.117	(42%)	44.44	17.99 Black crappie
16085	11853-20317	(26%)	.663	.505-.821	(24%)	555.90	224.97 Bluegill
5	0-29	(430%)	.000	.000-.001	(430%)	0.19	0.08 Carp
3257	2041-4472	(37%)	.166	.118-.215	(29%)	112.55	45.55 Channel catfish
45	14-76	(69%)	.002	.000-.003	(76%)	1.55	0.63 Green sunfish
930	671-1189	(28%)	.055	.037-.072	(33%)	32.15	13.01 Largemouth bass
1505	900-2111	(40%)	.062	.023-.101	(63%)	52.02	21.05 Redear sunfish
80	35-125	(56%)	.005	.001-.009	(79%)	2.76	1.12 Walleye
630	410-849	(35%)	.024	.013-.035	(45%)	21.76	8.81 Warmouth
4974	3672-6276	(26%)	.243	.181-.305	(26%)	171.90	69.57 White crappie
4	0-13	(245%)	.000	.000-.001	(236%)	0.13	0.05 Walleye x
Sauger hy							
1365	965-1765	(29%)	.055	.038-.071	(30%)	47.19	19.10 Yellow bullhead
195	59-332	(70%)	.013	.000-.025	(102%)	6.75	2.73 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
4945	4170-5719	(16%)	.227	.198-.256	(13%)	170.88	0.163 All species
274	188-359	(31%)	.019	.010-.027	(45%)	9.46	0.213 Black crappie
1332	971-1693	(27%)	.054	.041-.068	(25%)	46.02	0.083 Bluegill
0	0-1	(430%)	.000	.000-.000	(318%)	0.01	0.052 Carp
1134	709-1560	(38%)	.049	.036-.063	(28%)	39.20	0.348 Channel catfish
4	1-7	(70%)	.000	.000-.000	(94%)	0.14	0.089 Green sunfish
528	334-723	(37%)	.030	.017-.044	(45%)	18.26	0.568 Largemouth bass
174	105-242	(39%)	.007	.003-.012	(60%)	6.01	0.116 Redear sunfish
35	8-62	(76%)	.002	.000-.004	(92%)	1.22	0.447 Walleye
92	60-123	(34%)	.003	.002-.005	(37%)	3.16	0.146 Warmouth
769	560-978	(27%)	.037	.027-.047	(27%)	26.58	0.155 White crappie
1	0-2	(236%)	.000	.000-.000	(236%)	0.02	0.236 Walleye x
Sauger hy							
575	402-748	(30%)	.023	.016-.031	(32%)	19.87	0.421 Yellow bullhead
27	8-46	(70%)	.002	.000-.004	(107%)	0.92	0.137 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
10901	9194-12608	(16%)	.500	.436-.565 (13%)	152.46	0.359	All species
604	415-792	(31%)	.041	.023-.059 (45%)	8.44	0.470	Black crappie
2936	2140-3731	(27%)	.120	.090-.149 (25%)	41.06	0.183	Bluegill
1	0-2	(318%)	.000	.000-.000 (318%)	0.01	0.114	Carp
2501	1563-3439	(38%)	.109	.079-.139 (28%)	34.97	0.768	Channel catfish
9	3-15	(70%)	.000	.000-.001 (94%)	0.12	0.196	Green sunfish
1165	737-1593	(37%)	.067	.037-.096 (45%)	16.29	1.253	Largemouth bass
383	233-534	(39%)	.016	.006-.026 (60%)	5.36	0.255	Redear sunfish
78	18-137	(76%)	.005	.000-.009 (92%)	1.09	0.985	Walleye
202	132-271	(34%)	.008	.005-.010 (37%)	2.82	0.321	Warmouth
1696	1236-2156	(27%)	.081	.059-.103 (27%)	23.72	0.341	White crappie
2	0-5	(236%)	.000	.000-.001 (236%)	0.02	0.520	Walleye x
Sauger hy							
1267	885-1649	(30%)	.051	.035-.068 (32%)	17.72	0.928	Yellow bullhead
59	18-100	(70%)	.004	.000-.008 (107%)	0.83	0.303	Yellow bass