

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1989 CREEL SURVEY RESULTS

1989 DOLAN
 72 ACRES
 REGION 5, DISTRICT 16

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1989 through 11/15/1989
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.
 Yearperiod 7 coalesced with yearperiod 8.

SAMPLING RATIO: 277/738 = 37.5%

NUMBER OF INTERVIEWS: 1764

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	3432	2750-4113 (20%)	48	38-58 (20%)	12%
	HOLIDAY	2730	1999-3461 (27%)	38	28-48 (27%)	34%
	TOTAL	6161	5215-7108 (15%)	86	73-99 (15%)	22%
SHORE	WEEKDAY	4487	3720-5253 (17%)	63	52-73 (17%)	14%
	HOLIDAY	3535	3015-4055 (15%)	49	42-57 (15%)	30%
	TOTAL	8022	7095-8948 (12%)	112	99-125 (12%)	21%
BOAT & SHORE	WEEKDAY	7918	6893-8944 (13%)	111	96-125 (13%)	13%
	HOLIDAY	6265	5391-7138 (14%)	88	75-100 (14%)	32%
	TOTAL	14183	12859-15508 (9%)	198	180-217 (9%)	21%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
25704	20605-30803 (20%)	1.562	1.178-1.945 (25%)	888.32	359.50	All species
737	224-1251 (70%)	.078	.028-.128 (64%)	25.48	10.31	Black crappie
12721	8712-16730 (32%)	.646	.437-.855 (32%)	439.63	177.92	Bluegill
1031	733-1329 (29%)	.067	.043-.090 (35%)	35.63	14.42	Channel catfish
190	64-315 (66%)	.008	.003-.014 (67%)	6.56	2.65	Largemouth bass
2474	924-4025 (63%)	.154	.000-.474 (208%)	85.51	34.61	Redear sunfish
24	4-43 (82%)	.001	.000-.002 (98%)	0.81	0.33	Walleye
220	0-475 (116%)	.010	.000-.022 (113%)	7.62	3.08	Warmouth
7451	4621-10281 (38%)	.558	.349-.767 (38%)	257.49	104.21	White crappie
787	426-1149 (46%)	.037	.020-.055 (47%)	27.20	11.01	Yellow bullhead
69	0-191 (178%)	.003	.000-.008 (195%)	2.37	0.96	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
3859	3194-4525 (17%)	.248	.194-.301 (22%)	133.38	0.150	All species
154	41-267 (74%)	.016	.005-.026 (66%)	5.32	0.209	Black crappie
1049	721-1376 (31%)	.054	.036-.071 (33%)	36.24	0.082	Bluegill
640	427-854 (33%)	.043	.024-.062 (44%)	22.13	0.621	Channel catfish
205	69-342 (66%)	.008	.003-.014 (66%)	7.09	1.086	Largemouth bass
349	116-582 (67%)	.023	.000-.073 (224%)	12.07	0.141	Redear sunfish
22	0-49 (126%)	.001	.000-.001 (101%)	0.74	0.935	Walleye
25	0-51 (105%)	.002	.000-.004 (153%)	0.86	0.113	Warmouth
1014	649-1379 (36%)	.081	.051-.111 (37%)	35.04	0.136	White crappie
397	190-605 (52%)	.021	.007-.035 (65%)	13.73	0.505	Yellow bullhead
5	0-10 (124%)	.000	.000-.000 (155%)	0.16	0.068	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
8509	7041-9977 (17%)	.546	.428-.665 (22%)	119.00	0.331	All species
339	89-589 (74%)	.035	.012-.058 (66%)	4.75	0.461	Black crappie
2312	1589-3034 (31%)	.118	.079-.157 (33%)	32.33	0.182	Bluegill
1411	941-1882 (33%)	.095	.053-.137 (44%)	19.74	1.369	Channel catfish
452	152-753 (66%)	.018	.006-.031 (66%)	6.33	2.394	Largemouth bass
770	257-1283 (67%)	.050	.000-.161 (224%)	10.77	0.311	Redear sunfish
47	0-107 (126%)	.001	.000-.003 (101%)	0.66	2.061	Walleye
55	0-113 (105%)	.004	.000-.009 (153%)	0.77	0.250	Warmouth
2235	1430-3041 (36%)	.178	.112-.244 (37%)	31.26	0.300	White crappie
876	418-1334 (52%)	.047	.016-.077 (65%)	12.25	1.113	Yellow bullhead
10	0-23 (124%)	.000	.000-.001 (155%)	0.14	0.149	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
30610	25313-35907	(17%)	1.831	1.441-2.220 (21%)	1057.85	428.11	All species
744	230-1258	(69%)	.078	.028-.128 (64%)	25.71	10.40	Black crappie
15334	11254-19414	(27%)	.755	.544-.965 (28%)	529.93	214.46	Bluegill
1162	824-1499	(29%)	.076	.047-.105 (38%)	40.15	16.25	Channel catfish
1489	1087-1890	(27%)	.085	.052-.119 (39%)	51.45	20.82	Largemouth bass
2563	1116-4010	(56%)	.156	.000-.477 (205%)	88.57	35.85	Redear sunfish
193	97-290	(50%)	.013	.004-.021 (67%)	6.68	2.70	Walleye
278	22-534	(92%)	.019	.000-.038 (100%)	9.61	3.89	Warmouth
7902	5072-10732	(36%)	.606	.395-.817 (35%)	273.08	110.52	White crappie
877	511-1242	(42%)	.040	.023-.057 (42%)	30.29	12.26	Yellow bullhead
69	0-191	(178%)	.003	.000-.008 (195%)	2.37	0.96	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
4616	3899-5332	(16%)	.288	.232-.344 (19%)	159.51	0.151	All species
158	44-271	(72%)	.016	.005-.026 (65%)	5.45	0.212	Black crappie
1200	872-1529	(27%)	.060	.043-.078 (29%)	41.48	0.078	Bluegill
676	461-890	(32%)	.044	.025-.063 (43%)	23.35	0.582	Channel catfish
642	448-837	(30%)	.032	.020-.044 (37%)	22.20	0.432	Largemouth bass
359	125-593	(65%)	.023	.000-.073 (221%)	12.41	0.140	Redear sunfish
55	22-87	(59%)	.003	.001-.005 (66%)	1.88	0.283	Walleye
33	7-59	(80%)	.002	.000-.005 (116%)	1.14	0.119	Warmouth
1059	693-1426	(35%)	.086	.056-.116 (35%)	36.61	0.134	White crappie
429	220-638	(49%)	.022	.008-.036 (62%)	14.82	0.490	Yellow bullhead
5	0-10	(124%)	.000	.000-.000 (155%)	0.16	0.068	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
10175	8595-11755	(16%)	.636	.512-.759 (19%)	142.31	0.332	All species
348	97-598	(72%)	.035	.012-.058 (65%)	4.86	0.468	Black crappie
2646	1922-3370	(27%)	.132	.094-.171 (29%)	37.01	0.173	Bluegill
1489	1017-1962	(32%)	.097	.055-.138 (43%)	20.83	1.283	Channel catfish
1416	988-1845	(30%)	.071	.045-.097 (37%)	19.81	0.952	Largemouth bass
792	277-1307	(65%)	.050	.000-.162 (221%)	11.07	0.309	Redear sunfish
120	49-191	(59%)	.007	.002-.011 (66%)	1.68	0.623	Walleye
73	15-131	(80%)	.005	.000-.011 (116%)	1.02	0.262	Warmouth
2336	1528-3143	(35%)	.190	.124-.256 (35%)	32.67	0.296	White crappie
946	485-1407	(49%)	.048	.018-.079 (62%)	13.23	1.080	Yellow bullhead
10	0-23	(124%)	.000	.000-.001 (155%)	0.14	0.149	Yellow bass