

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

1992 WASHINGTON CO
 245 ACRES
 REGION 4, DISTRICT 13

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: 347/738 = 47.0%

NUMBER OF INTERVIEWS: 1545

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	13698	12077-15319 (12%)	56	49-63 (12%)	10%
	HOLIDAY	16742	15305-18179 (9%)	68	62-74 (9%)	13%
	TOTAL	30440	28274-32606 (7%)	124	115-133 (7%)	12%
SHORE	WEEKDAY	7068	5945-8191 (16%)	29	24-33 (16%)	7%
	HOLIDAY	8525	7592-9457 (11%)	35	31-39 (11%)	11%
	TOTAL	15592	14133-17052 (9%)	64	58-70 (9%)	9%
BOAT & SHORE	WEEKDAY	20766	18794-22738 (9%)	85	77-93 (9%)	9%
	HOLIDAY	25267	23554-26979 (7%)	103	96-110 (7%)	12%
	TOTAL	46033	43421-48645 (6%)	188	177-199 (6%)	11%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
42100	37489-46711 (11%)	.738	.653-.822 (11%)	424.61	171.84	All species
23633	20033-27233 (15%)	.397	.336-.458 (15%)	238.35	96.46	Bluegill
22	0-81 (264%)	.000	.000-.001 (202%)	0.22	0.09	Carp
5079	3837-6320 (24%)	.075	.059-.091 (22%)	51.22	20.73	Channel catfish
2426	1962-2890 (19%)	.043	.032-.053 (24%)	24.47	9.90	Largemouth bass
815	504-1127 (38%)	.011	.006-.016 (46%)	8.22	3.33	Redear sunfish
7298	5826-8771 (20%)	.154	.111-.197 (28%)	73.61	29.79	White crappie
2826	2161-3492 (24%)	.058	.041-.076 (30%)	28.51	11.54	Yellow bullhead

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
8276	7374-9179 (11%)	.146	.128-.165 (12%)	83.47	0.197	All species
1925	1634-2216 (15%)	.033	.028-.038 (16%)	19.42	0.081	Bluegill
41	0-162 (295%)	.000	.000-.001 (165%)	0.41	1.867	Carp
2248	1666-2830 (26%)	.031	.025-.038 (22%)	22.67	0.443	Channel catfish
2033	1601-2465 (21%)	.036	.024-.047 (32%)	20.51	0.838	Largemouth bass
99	62-136 (38%)	.001	.001-.002 (45%)	1.00	0.121	Redear sunfish
835	659-1012 (21%)	.021	.013-.029 (38%)	8.42	0.114	White crappie
1095	840-1349 (23%)	.024	.016-.032 (33%)	11.04	0.387	Yellow bullhead

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
18246	16256-20237 (11%)	.323	.283-.363 (12%)	74.47	0.433	All species
4244	3602-4886 (15%)	.072	.061-.084 (16%)	17.32	0.180	Bluegill
91	0-358 (295%)	.000	.000-.001 (165%)	0.37	4.116	Carp
4956	3674-6239 (26%)	.069	.054-.084 (22%)	20.23	0.976	Channel catfish
4482	3530-5435 (21%)	.079	.054-.104 (32%)	18.30	1.848	Largemouth bass
218	136-300 (38%)	.003	.002-.004 (45%)	0.89	0.268	Redear sunfish
1842	1452-2231 (21%)	.045	.028-.063 (38%)	7.52	0.252	White crappie
2413	1852-2974 (23%)	.053	.036-.070 (33%)	9.85	0.854	Yellow bullhead

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
54096	48472-59721 (10%)	.981	.866-1.095 (12%)	545.60	220.80	All species
30583	26150-35015 (14%)	.544	.456-.633 (16%)	308.45	124.83	Bluegill
22	0-81 (264%)	.000	.000-.001 (202%)	0.22	0.09	Carp
5863	4369-7357 (25%)	.086	.067-.104 (22%)	59.14	23.93	Channel catfish
4329	3588-5069 (17%)	.073	.058-.088 (20%)	43.66	17.67	Largemouth bass
829	517-1142 (38%)	.012	.006-.017 (45%)	8.37	3.39	Redear sunfish
9427	7534-11321 (20%)	.204	.148-.261 (28%)	95.08	38.48	White crappie
3042	2357-3727 (23%)	.062	.044-.080 (28%)	30.68	12.42	Yellow bullhead

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
9357	8362-10351 (11%)	.165	.146-.185 (12%)	94.37	0.173	All species
2232	1906-2558 (15%)	.040	.033-.046 (16%)	22.51	0.073	Bluegill
41	0-162 (295%)	.000	.000-.001 (165%)	0.41	1.867	Carp
2320	1712-2928 (26%)	.032	.025-.039 (22%)	23.40	0.396	Channel catfish
2617	2068-3165 (21%)	.044	.032-.057 (28%)	26.39	0.605	Largemouth bass
100	62-137 (37%)	.001	.001-.002 (45%)	1.01	0.120	Redear sunfish
907	716-1098 (21%)	.022	.014-.031 (38%)	9.15	0.096	White crappie
1140	883-1398 (23%)	.025	.017-.033 (32%)	11.50	0.375	Yellow bullhead

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
20628	18435-22821 (11%)	.364	.321-.408 (12%)	84.19	0.381	All species
4920	4201-5638 (15%)	.087	.073-.101 (16%)	20.08	0.161	Bluegill
91	0-358 (295%)	.000	.000-.001 (165%)	0.37	4.116	Carp
5116	3775-6456 (26%)	.071	.056-.087 (22%)	20.88	0.873	Channel catfish
5769	4560-6977 (21%)	.098	.070-.125 (28%)	23.55	1.333	Largemouth bass
220	138-302 (37%)	.003	.002-.004 (45%)	0.90	0.265	Redear sunfish
1999	1579-2420 (21%)	.050	.031-.068 (38%)	8.16	0.212	White crappie
2514	1947-3081 (23%)	.055	.038-.072 (32%)	10.26	0.826	Yellow bullhead

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SAMPLING RATIO: 153/279 = 54.8%

NUMBER OF INTERVIEWS: 752

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	6367	5163-7571 (19%)	26	21-31 (19%)	10%
	HOLIDAY	8886	7788-9984 (12%)	36	32-41 (12%)	13%
	TOTAL	15253	13655-16851 (10%)	62	56-69 (10%)	12%
SHORE	WEEKDAY	2630	2051-3209 (22%)	11	8-13 (22%)	9%
	HOLIDAY	3847	3175-4519 (17%)	16	13-18 (17%)	12%
	TOTAL	6477	5612-7342 (13%)	26	23-30 (13%)	11%
BOAT & SHORE	WEEKDAY	8997	7661-10333 (15%)	37	31-42 (15%)	10%
	HOLIDAY	12732	11501-13964 (10%)	52	47-57 (10%)	13%
	TOTAL	21729	19912-23547 (8%)	89	81-96 (8%)	11%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
19019	16034-22005 (16%)	.740	.614-.865 (17%)	191.82	77.63	All species
10119	7869-12369 (22%)	.373	.292-.454 (22%)	102.06	41.30	Bluegill
18	0-96 (430%)	.000	.000-.000 (318%)	0.18	0.07	Carp
1997	1151-2843 (42%)	.063	.038-.088 (40%)	20.14	8.15	Channel catfish
1013	728-1298 (28%)	.039	.026-.052 (34%)	10.22	4.13	Largemouth bass
345	160-531 (54%)	.009	.004-.015 (55%)	3.48	1.41	Redear sunfish
4426	3204-5648 (28%)	.214	.118-.310 (45%)	44.64	18.06	White crappie
1101	779-1423 (29%)	.041	.025-.057 (39%)	11.11	4.49	Yellow bullhead

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
3401	2836-3966 (17%)	.129	.104-.153 (19%)	34.30	0.179	All species
808	631-985 (22%)	.030	.023-.036 (21%)	8.15	0.080	Bluegill
38	0-201 (430%)	.000	.000-.001 (430%)	0.38	2.109	Carp
818	408-1228 (50%)	.023	.014-.032 (38%)	8.25	0.409	Channel catfish
783	548-1019 (30%)	.029	.019-.039 (36%)	7.90	0.774	Largemouth bass
39	19-59 (50%)	.001	.000-.002 (58%)	0.39	0.113	Redear sunfish
532	380-684 (29%)	.031	.011-.050 (64%)	5.37	0.120	White crappie
383	268-498 (30%)	.015	.009-.021 (40%)	3.86	0.348	Yellow bullhead

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
7498	6252-8743 (17%)	.284	.230-.338 (19%)	30.60	0.394	All species
1781	1391-2172 (22%)	.065	.051-.079 (21%)	7.27	0.176	Bluegill
84	0-444 (430%)	.001	.000-.002 (318%)	0.34	4.650	Carp
1803	899-2707 (50%)	.052	.032-.071 (38%)	7.36	0.903	Channel catfish
1727	1207-2247 (30%)	.064	.041-.086 (36%)	7.05	1.707	Largemouth bass
86	43-129 (50%)	.002	.001-.004 (58%)	0.35	0.249	Redear sunfish
1173	837-1509 (29%)	.067	.024-.111 (64%)	4.79	0.265	White crappie
844	590-1098 (30%)	.033	.020-.047 (40%)	3.45	0.767	Yellow bullhead

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	
24545	20831-28260	(15%)	.985	.820-1.150	(17%)	247.56	100.19	All species
13021	10190-15853	(22%)	.506	.394-.618	(22%)	131.33	53.15	Bluegill
18	0-96	(430%)	.000	.000-.000	(318%)	0.18	0.07	Carp
2269	1236-3302	(46%)	.069	.042-.096	(39%)	22.88	9.26	Channel catfish
1966	1380-2551	(30%)	.065	.048-.082	(27%)	19.82	8.02	Largemouth bass
359	172-547	(52%)	.011	.005-.018	(56%)	3.63	1.47	Redear sunfish
5743	4177-7309	(27%)	.290	.161-.419	(44%)	57.92	23.44	White crappie
1170	838-1501	(28%)	.043	.028-.059	(36%)	11.80	4.77	Yellow bullhead

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES	
3953	3287-4618	(17%)	.147	.121-.172	(18%)	39.87	0.161	All species
935	732-1137	(22%)	.036	.028-.043	(20%)	9.43	0.072	Bluegill
38	0-201	(430%)	.000	.000-.001	(430%)	0.38	2.109	Carp
841	414-1268	(51%)	.024	.015-.033	(38%)	8.48	0.371	Channel catfish
1126	701-1551	(38%)	.037	.026-.048	(30%)	11.36	0.573	Largemouth bass
40	20-59	(50%)	.001	.001-.002	(55%)	0.40	0.110	Redear sunfish
576	412-741	(29%)	.033	.012-.054	(63%)	5.81	0.100	White crappie
397	280-513	(29%)	.016	.010-.022	(39%)	4.00	0.339	Yellow bullhead

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES	
8714	7247-10181	(17%)	.323	.266-.380	(18%)	35.57	0.355	All species
2061	1615-2506	(22%)	.078	.062-.094	(20%)	8.41	0.158	Bluegill
84	0-444	(430%)	.001	.000-.002	(318%)	0.34	4.650	Carp
1855	914-2796	(51%)	.053	.033-.073	(38%)	7.57	0.818	Channel catfish
2482	1546-3419	(38%)	.081	.056-.106	(30%)	10.13	1.263	Largemouth bass
87	44-131	(50%)	.003	.001-.004	(55%)	0.36	0.243	Redear sunfish
1271	908-1634	(29%)	.073	.027-.120	(63%)	5.19	0.221	White crappie
875	618-1131	(29%)	.035	.021-.048	(39%)	3.57	0.748	Yellow bullhead