

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1997 CREEL SURVEY RESULTS

1997 OTTER LAKE
 723 ACRES
 REGION 4, DISTRICT 15

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1997 through 10/31/1997
 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: 348/693 = 50.2%

NUMBER OF INTERVIEWS: 1832

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	17618	15305-19930 (13%)	24	21-28 (13%)	13%
	HOLIDAY	16308	14223-18394 (13%)	23	20-25 (13%)	30%
	TOTAL	33926	30812-37040 (9%)	47	43-51 (9%)	21%
SHORE	WEEKDAY	858	475-1241 (45%)	1	1-2 (45%)	11%
	HOLIDAY	655	362-948 (45%)	1	0-1 (45%)	17%
	TOTAL	1513	1031-1995 (32%)	2	1-3 (32%)	14%
BOAT & SHORE	WEEKDAY	18476	16132-20819 (13%)	26	22-29 (13%)	13%
	HOLIDAY	16963	14858-19069 (12%)	23	21-26 (12%)	29%
	TOTAL	35439	32288-38590 (9%)	49	45-53 (9%)	21%

1997 OTTER LAKE

DAY CREEL

03/15/1997 - 10/31/1997

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
22008	12873-31143 (42%)	.301	.168-.435 (44%)	75.18	30.42	All species
		****	NOT RECORDED ****			Blue catfish
96	16-177 (84%)	.004	.000-.009 (133%)	0.33	0.13	Black bullhead
394	0-868 (120%)	.002	.000-.004 (108%)	1.35	0.54	Black crappie
1966	704-3228 (64%)	.046	.015-.077 (67%)	6.72	2.72	Bluegill
		****	NOT RECORDED ****			Carp
181	88-275 (52%)	.003	.001-.005 (63%)	0.62	0.25	Channel catfish
179	110-248 (39%)	.008	.000-.027 (254%)	0.61	0.25	Largemouth bass
		****	NOT RECORDED ****			Muskellunge
76	5-148 (94%)	.001	.000-.001 (100%)	0.26	0.11	Striped bass
hybrid		****	NOT RECORDED ****			Striped bass
19115	9899-28331 (48%)	.238	.092-.385 (61%)	65.29	26.42	White crappie
		****	NOT RECORDED ****			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
3381	2458-4305 (27%)	.058	.018-.098 (69%)	11.55	0.154	All species
		****	NOT RECORDED ****			Blue catfish
116	0-246 (112%)	.004	.000-.011 (153%)	0.40	1.206	Black bullhead
64	0-149 (133%)	.000	.000-.001 (127%)	0.22	0.163	Black crappie
227	0-550 (142%)	.005	.001-.009 (83%)	0.78	0.116	Bluegill
		****	NOT RECORDED ****			Carp
127	59-195 (54%)	.002	.001-.003 (67%)	0.43	0.701	Channel catfish
243	148-337 (39%)	.015	.000-.056 (274%)	0.83	1.363	Largemouth bass
		****	NOT RECORDED ****			Muskellunge
135	0-273 (102%)	.001	.000-.003 (101%)	0.46	1.779	Striped bass
hybrid		****	NOT RECORDED ****			Striped bass
2470	1504-3436 (39%)	.030	.016-.045 (48%)	8.44	0.129	White crappie
		****	NOT RECORDED ****			Yellow bullhead

1997 OTTER LAKE

DAY CREEL

03/15/1997 - 10/31/1997

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
7455	5419-9490	(27%)	.127	.040-.215 (69%)	10.31	0.339	All species
			****	NOT RECORDED	****		Blue catfish
255	0-542	(112%)	.009	.000-.024 (153%)	0.35	2.658	Black bullhead
141	0-329	(133%)	.001	.000-.001 (127%)	0.20	0.358	Black crappie
501	0-1212	(142%)	.010	.002-.019 (83%)	0.69	0.255	Bluegill
			****	NOT RECORDED	****		Carp
280	130-430	(54%)	.004	.001-.007 (67%)	0.39	1.545	Channel catfish
535	326-743	(39%)	.033	.000-.123 (274%)	0.74	3.004	Largemouth bass
			****	NOT RECORDED	****		Muskellunge
298	0-603	(102%)	.003	.000-.006 (101%)	0.41	3.922	Striped bass
hybrid			****	NOT RECORDED	****		Striped bass
5446	3315-7576	(39%)	.067	.035-.099 (48%)	7.53	0.285	White crappie
			****	NOT RECORDED	****		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
55325	45912-64737	(17%)	.719	.585-.853	(19%)	188.98	76.48	All species
4	0-12	(220%)	.000	.000-.000	(220%)	0.01	0.01	Blue catfish
121	35-208	(71%)	.004	.000-.009	(114%)	0.41	0.17	Black bullhead
673	0-1368	(103%)	.005	.001-.008	(76%)	2.30	0.93	Black crappie
4885	2849-6922	(42%)	.107	.050-.163	(53%)	16.69	6.75	Bluegill
90	0-204	(127%)	.004	.000-.010	(149%)	0.31	0.12	Carp
331	197-465	(41%)	.005	.002-.007	(51%)	1.13	0.46	Channel catfish
7562	6453-8671	(15%)	.100	.079-.120	(20%)	25.83	10.45	Largemouth bass
107	48-165	(55%)	.001	.000-.002	(79%)	0.36	0.15	Muskellunge
1788	1296-2281	(28%)	.037	.017-.056	(53%)	6.11	2.47	Striped bass
hybrid								
27	0-93	(245%)	.000	.000-.001	(245%)	0.09	0.04	Striped bass
39682	30136-49228	(24%)	.456	.321-.591	(30%)	135.55	54.86	White crappie
54	0-125	(131%)	.000	.000-.001	(112%)	0.18	0.07	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
10550	9266-11833	(12%)	.156	.118-.194	(24%)	36.04	0.191	All species
9	0-31	(223%)	.000	.000-.000	(220%)	0.03	3.164	Blue catfish
150	16-284	(90%)	.006	.000-.012	(123%)	0.51	1.239	Black bullhead
86	0-200	(134%)	.000	.000-.001	(110%)	0.29	0.127	Black crappie
396	58-733	(85%)	.008	.003-.013	(61%)	1.35	0.081	Bluegill
44	0-97	(120%)	.002	.000-.005	(139%)	0.15	0.495	Carp
180	100-259	(44%)	.003	.001-.004	(55%)	0.61	0.543	Channel catfish
4757	4015-5498	(16%)	.069	.026-.112	(63%)	16.25	0.629	Largemouth bass
273	37-510	(86%)	.004	.000-.008	(96%)	0.93	2.580	Muskellunge
1238	837-1640	(32%)	.024	.012-.035	(47%)	4.23	0.693	Striped bass
hybrid								
15	0-50	(236%)	.000	.000-.001	(245%)	0.05	0.545	Striped bass
3381	2395-4366	(29%)	.040	.026-.054	(36%)	11.55	0.085	White crappie
21	0-46	(116%)	.000	.000-.000	(119%)	0.07	0.393	Yellow bullhead

1997 OTTER LAKE

DAY CREEL

03/15/1997 - 10/31/1997

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
23258	20428-26088	(12%)	.343	.259-.427 (24%)	32.15	0.420	All species
21	0-67	(220%)	.000	.000-.000 (220%)	0.03	6.976	Blue catfish
331	34-627	(90%)	.012	.000-.027 (123%)	0.46	2.732	Black bullhead
189	0-442	(134%)	.001	.000-.002 (110%)	0.26	0.281	Black crappie
872	128-1616	(85%)	.017	.007-.028 (61%)	1.21	0.179	Bluegill
97	0-214	(120%)	.005	.000-.012 (139%)	0.13	1.092	Carp
396	221-572	(44%)	.006	.002-.009 (55%)	0.55	1.197	Channel catfish
10487	8853-12122	(16%)	.152	.056-.247 (63%)	14.50	1.387	Largemouth bass
603	82-1123	(86%)	.009	.000-.018 (96%)	0.83	5.687	Muskellunge
2730	1845-3615	(32%)	.052	.027-.076 (47%)	3.77	1.527	Striped bass
hybrid							
32	0-109	(236%)	.000	.000-.001 (245%)	0.04	1.203	Striped bass
7453	5280-9625	(29%)	.088	.057-.119 (36%)	10.30	0.188	White crappie
47	0-101	(116%)	.000	.000-.001 (119%)	0.06	0.866	Yellow bullhead