

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2002 CREEL SURVEY RESULTS

2002 DEVIL'S KITCHEN
 704 ACRES
 REGION 5, DISTRICT 22

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 04/01/2002 through 10/31/2002
 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: 312/642 = 48.6%

NUMBER OF INTERVIEWS: 1224

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	8485	7109-9861 (16%)	12	10-14 (16%)	16%
	HOLIDAY	7414	6372-8456 (14%)	11	9-12 (14%)	36%
	TOTAL	15899	14173-17625 (11%)	23	20-25 (11%)	25%
SHORE	WEEKDAY	1783	1376-2190 (23%)	3	2-3 (23%)	12%
	HOLIDAY	1246	934-1559 (25%)	2	1-2 (25%)	32%
	TOTAL	3029	2516-3542 (17%)	4	4-5 (17%)	20%
BOAT & SHORE	WEEKDAY	10268	8833-11702 (14%)	15	13-17 (14%)	15%
	HOLIDAY	8660	7572-9748 (13%)	12	11-14 (13%)	36%
	TOTAL	18928	17128-20728 (10%)	27	24-29 (10%)	25%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
18668	15768-21567	(16%)	.537	.458-.617 (15%)	65.54	26.52	All species
2453	1582-3323	(35%)	.083	.042-.124 (49%)	8.61	3.48	Black crappie
7788	6090-9487	(22%)	.202	.159-.245 (21%)	27.34	11.07	Bluegill
209	91-328	(57%)	.006	.002-.010 (65%)	0.73	0.30	Green sunfish
3967	3141-4792	(21%)	.114	.090-.139 (21%)	13.93	5.64	Largemouth bass
181	51-311	(72%)	.004	.001-.008 (77%)	0.64	0.26	Longear sunfish
1238	806-1670	(35%)	.051	.027-.074 (46%)	4.35	1.76	Rainbow trout
2410	1748-3072	(27%)	.061	.042-.079 (30%)	8.46	3.42	Redear sunfish
11	0-26	(126%)	.000	.000-.000 (124%)	0.04	0.02	Unidentified Sunfish
41	1-82	(98%)	.002	.000-.004 (129%)	0.15	0.06	Spotted bass
274	88-461	(68%)	.010	.002-.017 (80%)	0.96	0.39	Warmouth
9	0-24	(160%)	.000	.000-.001 (234%)	0.03	0.01	White crappie
58	0-127	(120%)	.003	.000-.006 (137%)	0.20	0.08	Yellow perch
28	0-77	(177%)	.001	.000-.004 (208%)	0.10	0.04	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
4034	3468-4600	(14%)	.115	.100-.131 (13%)	14.16	0.216	All species
610	402-817	(34%)	.021	.011-.030 (48%)	2.14	0.249	Black crappie
1027	786-1268	(23%)	.024	.019-.029 (21%)	3.61	0.132	Bluegill
17	5-28	(68%)	.000	.000-.001 (66%)	0.06	0.079	Green sunfish
1525	1209-1841	(21%)	.042	.033-.051 (21%)	5.35	0.384	Largemouth bass
19	7-31	(64%)	.000	.000-.001 (61%)	0.07	0.104	Longear sunfish
424	263-585	(38%)	.017	.009-.026 (50%)	1.49	0.343	Rainbow trout
326	236-417	(28%)	.008	.005-.010 (28%)	1.15	0.135	Redear sunfish
			****	NOT RECORDED			Unidentified Sunfish
11	1-22	(91%)	.000	.000-.001 (139%)	0.04	0.273	Spotted bass
52	15-88	(70%)	.002	.000-.003 (73%)	0.18	0.188	Warmouth
2	0-5	(179%)	.000	.000-.000 (245%)	0.01	0.200	White crappie
14	0-33	(132%)	.001	.000-.002 (150%)	0.05	0.248	Yellow perch
7	0-20	(174%)	.000	.000-.001 (207%)	0.03	0.266	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
8893	7646-10140 (14%)	.254	.220-.288 (13%)	12.64	0.476	All species
1344	887-1801 (34%)	.045	.024-.067 (48%)	1.91	0.548	Black crappie
2264	1734-2795 (23%)	.053	.042-.064 (21%)	3.22	0.291	Bluegill
37	12-62 (68%)	.001	.000-.002 (66%)	0.05	0.175	Green sunfish
3361	2664-4058 (21%)	.092	.073-.112 (21%)	4.78	0.847	Largemouth bass
42	15-68 (64%)	.001	.000-.001 (61%)	0.06	0.230	Longear sunfish
935	580-1291 (38%)	.038	.019-.057 (50%)	1.33	0.756	Rainbow trout
719	520-918 (28%)	.017	.012-.021 (28%)	1.02	0.298	Redear sunfish
		****	NOT RECORDED ****			Unidentified Sunfish
25	2-48 (91%)	.001	.000-.002 (139%)	0.04	0.602	Spotted bass
114	34-193 (70%)	.003	.001-.006 (73%)	0.16	0.414	Warmouth
4	0-11 (179%)	.000	.000-.000 (245%)	0.01	0.441	White crappie
32	0-73 (132%)	.002	.000-.004 (150%)	0.04	0.547	Yellow perch
16	0-45 (174%)	.001	.000-.002 (207%)	0.02	0.585	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
47881	40100-55663 (16%)	1.478	1.230-1.726 (17%)	168.11	68.03	All species
2973	1952-3994 (34%)	.101	.054-.149 (47%)	10.44	4.22	Black crappie
22772	18253-27291 (20%)	.657	.511-.803 (22%)	79.95	32.36	Bluegill
1768	1166-2370 (34%)	.070	.040-.100 (43%)	6.21	2.51	Green sunfish
9966	8279-11653 (17%)	.312	.254-.370 (19%)	34.99	14.16	Largemouth bass
749	293-1205 (61%)	.025	.007-.043 (74%)	2.63	1.06	Longear sunfish
1298	864-1733 (33%)	.053	.030-.076 (44%)	4.56	1.84	Rainbow trout
7157	4953-9360 (31%)	.219	.142-.295 (35%)	25.13	10.17	Redear sunfish
17	0-35 (107%)	.000	.000-.001 (195%)	0.06	0.02	Unidentified Sunfish
45	4-86 (92%)	.002	.000-.004 (125%)	0.16	0.06	Spotted bass
1037	489-1586 (53%)	.035	.017-.052 (50%)	3.64	1.47	Warmouth
15	0-42 (171%)	.000	.000-.001 (181%)	0.05	0.02	White crappie
58	0-127 (120%)	.003	.000-.006 (137%)	0.20	0.08	Yellow perch
28	0-77 (177%)	.001	.000-.004 (208%)	0.10	0.04	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
7317	6311-8322 (14%)	.216	.190-.242 (12%)	25.69	0.153	All species
676	455-897 (33%)	.022	.012-.033 (45%)	2.37	0.227	Black crappie
1963	1563-2363 (20%)	.053	.042-.064 (21%)	6.89	0.086	Bluegill
105	69-140 (34%)	.004	.002-.006 (44%)	0.37	0.059	Green sunfish
3253	2622-3884 (19%)	.093	.077-.109 (17%)	11.42	0.326	Largemouth bass
57	25-89 (56%)	.002	.001-.003 (68%)	0.20	0.076	Longear sunfish
436	273-598 (37%)	.018	.009-.027 (49%)	1.53	0.336	Rainbow trout
671	464-878 (31%)	.019	.012-.025 (34%)	2.36	0.094	Redear sunfish
		****	NOT RECORDED	****		Unidentified Sunfish
12	2-22 (86%)	.000	.000-.001 (135%)	0.04	0.270	Spotted bass
121	59-184 (52%)	.004	.002-.006 (45%)	0.43	0.117	Warmouth
2	0-5 (165%)	.000	.000-.000 (239%)	0.01	0.129	White crappie
14	0-33 (132%)	.001	.000-.002 (150%)	0.05	0.248	Yellow perch
7	0-20 (174%)	.000	.000-.001 (207%)	0.03	0.266	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
16130	13913-18347 (14%)	.476	.419-.534 (12%)	22.92	0.337	All species
1490	1003-1977 (33%)	.050	.027-.072 (45%)	2.12	0.501	Black crappie
4327	3445-5209 (20%)	.116	.092-.141 (21%)	6.15	0.190	Bluegill
231	153-310 (34%)	.010	.005-.014 (44%)	0.33	0.131	Green sunfish
7171	5780-8562 (19%)	.204	.169-.240 (17%)	10.19	0.720	Largemouth bass
125	55-196 (56%)	.004	.001-.007 (68%)	0.18	0.167	Longear sunfish
960	603-1318 (37%)	.039	.020-.058 (49%)	1.36	0.740	Rainbow trout
1479	1022-1936 (31%)	.041	.027-.055 (34%)	2.10	0.207	Redear sunfish
		****	NOT RECORDED	****		Unidentified Sunfish
27	4-49 (86%)	.001	.000-.002 (135%)	0.04	0.596	Spotted bass
267	129-406 (52%)	.009	.005-.013 (45%)	0.38	0.258	Warmouth
4	0-12 (165%)	.000	.000-.000 (239%)	0.01	0.285	White crappie
32	0-73 (132%)	.002	.000-.004 (150%)	0.04	0.547	Yellow perch
16	0-45 (174%)	.001	.000-.002 (207%)	0.02	0.585	Yellow bass

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	3.7	3.6-3.9 (5%)	0.3	12.5	585
SHORE	2.2	2.0-2.5 (11%)	0.2	9.3	152
BOAT & SHORE	3.4	3.3-3.6 (5%)	0.2	12.5	737
MILES TRAVELED	33.3	29.6-37.0 (11%)	1	700	853
SUCCESS RATING (1-10)	6.5	6.2-6.7 (4%)	1	10	851

*323 samples were from split interviews of completed trips.
83.4% of all 884 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 884 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	262	418	22	10	1	1				
SHORE INTERVIEWS	108	42	13	5	2					

Table 10. Number of interviews (and %) per species sought for all interviews.

244 (27.6%)	ANY	All species
23 (2.6%)	BLC	Black crappie
82 (9.3%)	BLG	Bluegill
1 (0.1%)	BSS	Black bass spp.
2 (0.2%)	CAT	Unidentified catfish
52 (5.9%)	CRP	Crappie spp.
397 (44.9%)	LMB	Largemouth bass
75 (8.5%)	RBT	Rainbow trout
8 (0.9%)	SUN	Sunfish spp. excluding Crappie and Black Bass

