

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2005 CREEL SURVEY RESULTS

2005 SAM PARR LAKE
 149 ACRES
 REGION 5, DISTRICT 19

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2005 through 10/31/2005

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: 304/693 = 43.9%

NUMBER OF INTERVIEWS: 1376

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	9301	8101-10500 (13%)	62	54-70 (13%)	18%
	HOLIDAY	8732	7567-9897 (13%)	59	51-66 (13%)	35%
	TOTAL	18032	16360-19704 (9%)	121	110-132 (9%)	26%
SHORE	WEEKDAY	1046	769-1322 (26%)	7	5-9 (26%)	11%
	HOLIDAY	1021	730-1312 (28%)	7	5-9 (28%)	23%
	TOTAL	2067	1678-2456 (19%)	14	11-16 (19%)	17%
BOAT & SHORE	WEEKDAY	10346	9115-11577 (12%)	69	61-78 (12%)	17%
	HOLIDAY	9753	8556-10950 (12%)	65	57-73 (12%)	34%
	TOTAL	20099	18383-21816 (9%)	135	123-146 (9%)	25%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
29021	24857-33185 (14%)	.696	.594-.798 (15%)	481.28	194.77	All species
16	0-54 (245%)	.000	.000-.000 (236%)	0.26	0.11	Black bullhead
1410	724-2096 (49%)	.035	.015-.054 (57%)	23.38	9.46	Black crappie
8227	6425-10029 (22%)	.203	.144-.262 (29%)	136.44	55.21	Bluegill
3	0-10 (212%)	.000	.000-.000 (212%)	0.05	0.02	Carp
1286	651-1922 (49%)	.040	.026-.055 (36%)	21.33	8.63	Channel catfish
7	0-25 (236%)	.000	.000-.000 (236%)	0.12	0.05	Crappie spp.
142	41-242 (71%)	.006	.000-.016 (179%)	2.35	0.95	Largemouth bass
81	0-228 (181%)	.001	.000-.003 (195%)	1.35	0.54	Redear sunfish
17824	14528-21119 (18%)	.410	.334-.485 (18%)	295.59	119.62	White crappie
25	0-60 (139%)	.001	.000-.003 (130%)	0.42	0.17	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
5273	4498-6047 (15%)	.132	.111-.153 (16%)	87.44	0.182	All species
2	0-7 (245%)	.000	.000-.000 (245%)	0.03	0.127	Black bullhead
332	47-617 (86%)	.007	.002-.012 (69%)	5.51	0.236	Black crappie
1132	872-1392 (23%)	.027	.019-.036 (30%)	18.77	0.138	Bluegill
17	0-52 (211%)	.000	.000-.000 (211%)	0.28	5.259	Carp
838	460-1215 (45%)	.027	.017-.038 (38%)	13.90	0.651	Channel catfish
0	0-2 (245%)	.000	.000-.000 (245%)	0.01	0.059	Crappie spp.
162	44-279 (73%)	.006	.000-.017 (190%)	2.68	1.141	Largemouth bass
19	0-54 (191%)	.000	.000-.001 (205%)	0.31	0.229	Redear sunfish
2762	2273-3251 (18%)	.063	.052-.074 (18%)	45.80	0.155	White crappie
9	0-21 (134%)	.000	.000-.001 (127%)	0.15	0.365	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
11624	9917-13331 (15%)	.290	.244-.336 (16%)	78.01	0.401	All species
4	0-15 (236%)	.000	.000-.000 (245%)	0.03	0.280	Black bullhead
732	104-1360 (86%)	.016	.005-.027 (69%)	4.91	0.519	Black crappie
2495	1922-3069 (23%)	.061	.042-.079 (30%)	16.75	0.303	Bluegill
37	0-116 (212%)	.000	.000-.000 (212%)	0.25	11.595	Carp
1847	1015-2680 (45%)	.060	.037-.083 (38%)	12.40	1.436	Channel catfish
1	0-3 (236%)	.000	.000-.000 (245%)	0.01	0.131	Crappie spp.
356	97-616 (73%)	.013	.000-.038 (190%)	2.39	2.514	Largemouth bass
41	0-119 (191%)	.000	.000-.001 (205%)	0.27	0.505	Redear sunfish
6089	5010-7168 (18%)	.139	.114-.163 (18%)	40.87	0.342	White crappie
20	0-47 (134%)	.001	.000-.002 (127%)	0.14	0.805	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
52330	45159-59502 (14%)		1.301	1.140-1.462 (12%)	867.84	351.21	All species
106	0-273 (158%)		.001	.000-.002 (153%)	1.76	0.71	Black bullhead
1840	1037-2643 (44%)		.053	.026-.079 (50%)	30.51	12.35	Black crappie
12653	10356-14949 (18%)		.341	.264-.418 (23%)	209.83	84.92	Bluegill
3	0-10 (212%)		.000	.000-.000 (212%)	0.05	0.02	Carp
1786	1105-2466 (38%)		.058	.038-.079 (35%)	29.62	11.99	Channel catfish
146	0-380 (160%)		.004	.000-.011 (174%)	2.42	0.98	Crappie spp.
11048	8857-13239 (20%)		.261	.195-.327 (25%)	183.22	74.15	Largemouth bass
92	0-237 (159%)		.002	.000-.006 (172%)	1.52	0.61	Redear sunfish
24629	18990-30268 (23%)		.579	.470-.689 (19%)	408.45	165.30	White crappie
28	0-63 (127%)		.001	.000-.003 (129%)	0.46	0.19	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
10897	9400-12394 (14%)		.265	.228-.302 (14%)	180.72	0.208	All species
7	0-16 (141%)		.000	.000-.000 (143%)	0.11	0.063	Black bullhead
381	103-658 (73%)		.011	.004-.017 (62%)	6.31	0.207	Black crappie
1451	1160-1743 (20%)		.037	.027-.047 (26%)	24.07	0.115	Bluegill
17	0-52 (211%)		.000	.000-.000 (211%)	0.28	5.259	Carp
988	599-1376 (39%)		.032	.021-.043 (35%)	16.38	0.553	Channel catfish
12	0-35 (180%)		.000	.000-.001 (191%)	0.21	0.085	Crappie spp.
4778	3564-5993 (25%)		.107	.079-.136 (26%)	79.24	0.433	Largemouth bass
19	0-54 (186%)		.000	.000-.001 (166%)	0.32	0.208	Redear sunfish
3234	2674-3795 (17%)		.077	.063-.091 (18%)	53.63	0.131	White crappie
11	0-23 (117%)		.000	.000-.001 (124%)	0.18	0.385	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
24025	20724-27325 (14%)		.584	.503-.666 (14%)	161.24	0.459	All species
15	0-36 (141%)		.000	.000-.000 (143%)	0.10	0.139	Black bullhead
839	227-1452 (73%)		.023	.009-.038 (62%)	5.63	0.456	Black crappie
3199	2557-3842 (20%)		.082	.060-.103 (26%)	21.47	0.253	Bluegill
37	0-116 (212%)		.000	.000-.000 (212%)	0.25	11.595	Carp
2177	1320-3034 (39%)		.070	.046-.095 (35%)	14.61	1.219	Channel catfish
27	0-76 (180%)		.001	.000-.002 (191%)	0.18	0.187	Crappie spp.
10534	7856-13212 (25%)		.237	.174-.300 (26%)	70.70	0.954	Largemouth bass
42	0-120 (186%)		.001	.000-.002 (166%)	0.28	0.458	Redear sunfish
7130	5894-8365 (17%)		.169	.138-.200 (18%)	47.85	0.289	White crappie
23	0-51 (117%)		.001	.000-.002 (124%)	0.16	0.849	Yellow bullhead

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	4.2	3.9-4.4	(6%)	0.6	9.0	357
SHORE	1.7	1.4-1.9	(14%)	0.7	3.7	43
BOAT & SHORE	3.9	3.7-4.2	(6%)	0.6	9.0	400
MILES TRAVELED	40.2	36.8-43.6	(8%)	1	312	990
SUCCESS RATING (1-10)	4.8	4.6-4.9	(3%)	1	10	967

*199 samples were from split interviews of completed trips.
34.0% of all 1177 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 1177 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	418	512	90	21	5	1				
SHORE INTERVIEWS	38	59	24	6	2	1				

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

162 (13.8%)	ANY	All species
1 (0.1%)	BLB	Black bullhead
140 (11.9%)	BLG	Bluegill
62 (5.3%)	CCF	Channel catfish
530 (45.0%)	CRP	Crappie spp.
280 (23.8%)	LMB	Largemouth bass
2 (0.2%)	WHC	White crappie

2005 SAM PARR LAKE

DAY CREEL

03/15/2005 - 10/31/2005

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25+	
Black bullhead																											
HARVEST	670	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																											
HARVEST	649	2	5	4	1	3	-	1	1	-	3	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
RELEASE	660	3	1	4	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																											
HARVEST	584	26	9	11	3	3	-	1	12	-	4	2	-	6	-	2	-	-	-	-	-	2	1	-	-	-	5
RELEASE	573	30	17	24	5	15	1	2	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
Carp																											
HARVEST	670	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																											
HARVEST	612	22	17	7	5	1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	645	22	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crappie spp.																											
HARVEST	671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	665	3	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																											
HARVEST	666	1	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	409	41	51	15	15	11	17	8	11	5	6	4	4	4	3	15	5	2	6	1	3	4	-	-	2	29	
Redear sunfish																											
HARVEST	670	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2005 SAM PARR LAKE

DAY CREEL

03/15/2005 - 10/31/2005

Table 11 Cont. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25+	
White crappie																											
HARVEST	537	8	11	9	6	20	9	11	8	4	14	3	5	2	-	2	1	6	-	4	3	-	-	2	1	5	
RELEASE	579	18	22	6	4	11	6	2	2	2	6	-	1	2	2	-	2	1	-	-	3	-	-	-	-	2	
Yellow bullhead																											
HARVEST	667	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE	669	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

