

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

2005 LAKE CARLYLE
 22202 ACRES
 REGION 0, DISTRICT 0

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.
 Year period 5 coalesced with year period 6.

SAMPLING RATIO: 439/693 = 63.3%

NUMBER OF INTERVIEWS: 2318

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	34175	29623-38727 (13%)	2	1-2	(13%) 7%
	HOLIDAY	29407	23639-35176 (20%)	1	1-2	(20%) 16%
	TOTAL	63583	56235-70931 (12%)	3	3-3	(12%) 11%
SHORE	WEEKDAY	10919	9036-12802 (17%)	0	0-1	(17%) 7%
	HOLIDAY	7665	5960-9370 (22%)	0	0-0	(22%) 11%
	TOTAL	18584	16043-21124 (14%)	1	1-1	(14%) 9%
BOAT & SHORE	WEEKDAY	45094	40168-50021 (11%)	2	2-2	(11%) 7%
	HOLIDAY	37072	31057-43088 (16%)	2	1-2	(16%) 15%
	TOTAL	82167	74392-89942 (9%)	4	3-4	(9%) 10%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
112958	89379-136536 (21%)	.684	.569-.799 (17%)	12.57	5.09	All species
16	0-46 (196%)	.000	.000-.000 (196%)	0.00	0.00	Blue catfish
51	0-129 (153%)	.001	.000-.002 (154%)	0.01	0.00	Bigmouth buffalo
6	0-18 (205%)	.000	.000-.000 (206%)	0.00	0.00	Black buffalo
7	0-26 (257%)	.000	.000-.000 (245%)	0.00	0.00	Black crappie
1132	260-2005 (77%)	.014	.000-.035 (156%)	0.13	0.05	Bluegill
		****	NOT RECORDED ****			Unidentified buffalo
		****	NOT RECORDED ****			Carp
10	0-31 (206%)	.000	.000-.000 (205%)	0.00	0.00	Unidentified catfish
9514	7717-11311 (19%)	.072	.052-.092 (28%)	1.06	0.43	Channel catfish
41	0-105 (160%)	.000	.000-.000 (159%)	0.00	0.00	Crappie spp.
269	27-512 (90%)	.001	.000-.003 (99%)	0.03	0.01	Flathead catfish
103	0-223 (115%)	.001	.000-.003 (157%)	0.01	0.00	Freshwater drum
		****	NOT RECORDED ****			Green sunfish
710	257-1163 (64%)	.009	.000-.018 (102%)	0.08	0.03	Largemouth bass
20	0-66 (236%)	.000	.000-.001 (231%)	0.00	0.00	Sauger
		****	NOT RECORDED ****			Shortnose gar
45	0-108 (139%)	.000	.000-.001 (174%)	0.01	0.00	Walleye
35	0-112 (223%)	.000	.000-.000 (226%)	0.00	0.00	Warmouth
86160	63042-109277 (27%)	.494	.384-.604 (22%)	9.59	3.88	White bass
14838	11396-18280 (23%)	.092	.073-.111 (21%)	1.65	0.67	White crappie
		****	NOT RECORDED ****			Yellow bullhead
		****	NOT RECORDED ****			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
34896	28583-41209 (18%)	.235	.191-.279 (19%)	3.88	0.309	All species
28	0-83 (196%)	.000	.000-.000 (196%)	0.00	1.798	Blue catfish
127	0-396 (211%)	.002	.000-.005 (202%)	0.01	2.495	Bigmouth buffalo
3	0-10 (205%)	.000	.000-.000 (205%)	0.00	0.574	Black buffalo
3	0-9 (257%)	.000	.000-.000 (257%)	0.00	0.348	Black crappie
131	29-234 (78%)	.002	.000-.004 (151%)	0.01	0.116	Bluegill
		****	NOT RECORDED ****			Unidentified buffalo
		****	NOT RECORDED ****			Carp
		****	NOT RECORDED ****			Unidentified catfiso
10801	8400-13201 (22%)	.087	.058-.116 (33%)	1.20	1.135	Channel catfish
9	0-24 (169%)	.000	.000-.000 (169%)	0.00	0.224	Crappie spp.
688	100-1276 (85%)	.004	.000-.009 (103%)	0.08	2.553	Flathead catfish
78	0-185 (138%)	.000	.000-.001 (127%)	0.01	0.750	Freshwater drum
		****	NOT RECORDED ****			Green sunfish
387	160-614 (59%)	.004	.000-.009 (98%)	0.04	0.545	Largemouth bass
10	0-34 (231%)	.000	.000-.000 (236%)	0.00	0.520	Sauger
		****	NOT RECORDED ****			Shortnose gar
20	0-47 (139%)	.000	.000-.000 (179%)	0.00	0.430	Walleye
4	0-14 (223%)	.000	.000-.000 (226%)	0.00	0.122	Warmouth
18768	13326-24209 (29%)	.113	.081-.144 (28%)	2.09	0.218	White bass
3840	2941-4739 (23%)	.023	.018-.028 (21%)	0.43	0.259	White crappie
		****	NOT RECORDED ****			Yellow bullhead
		****	NOT RECORDED ****			Yellow bass

2005 LAKE CARLYLE

DAY CREEL

03/15/2005 - 10/31/2005

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

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
76933	63015-90851 (18%)	.518	.421-.615 (19%)	3.47	0.681	All species
62	0-184 (196%)	.000	.000-.001 (196%)	0.00	3.965	Blue catfish
281	0-872 (211%)	.004	.000-.011 (202%)	0.01	5.500	Bigmouth buffalo
8	0-23 (205%)	.000	.000-.000 (205%)	0.00	1.265	Black buffalo
6	0-19 (245%)	.000	.000-.000 (245%)	0.00	0.767	Black crappie
289	63-515 (78%)	.003	.000-.009 (151%)	0.01	0.255	Bluegill
		****	NOT RECORDED ****			Unidentified buffalo
		****	NOT RECORDED ****			Carp
		****	NOT RECORDED ****			Unidentified catfish
23811	18520-29102 (22%)	.191	.127-.255 (33%)	1.07	2.503	Channel catfish
20	0-54 (169%)	.000	.000-.000 (169%)	0.00	0.493	Crappie spp.
1517	221-2813 (85%)	.009	.000-.019 (103%)	0.07	5.628	Flathead catfish
171	0-407 (138%)	.001	.000-.002 (127%)	0.01	1.654	Freshwater drum
		****	NOT RECORDED ****			Green sunfish
853	353-1353 (59%)	.010	.000-.019 (98%)	0.04	1.201	Largemouth bass
22	0-74 (231%)	.000	.000-.001 (236%)	0.00	1.147	Sauger
		****	NOT RECORDED ****			Shortnose gar
43	0-103 (139%)	.000	.000-.001 (179%)	0.00	0.949	Walleye
9	0-31 (226%)	.000	.000-.000 (226%)	0.00	0.270	Warmouth
41375	29379-53372 (29%)	.248	.179-.317 (28%)	1.86	0.480	White bass
8466	6484-10447 (23%)	.051	.040-.062 (21%)	0.38	0.571	White crappie
		****	NOT RECORDED ****			Yellow bullhead
		****	NOT RECORDED ****			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
236742	175634-297851 (26%)	1.460	1.209-1.712 (17%)	26.35	10.66	All species
16	0-46 (196%)	.000	.000-.000 (196%)	0.00	0.00	Blue catfish
65	0-146 (126%)	.001	.000-.002 (143%)	0.01	0.00	Bigmouth buffalo
6	0-18 (205%)	.000	.000-.000 (206%)	0.00	0.00	Black buffalo
86	0-201 (134%)	.000	.000-.001 (151%)	0.01	0.00	Black crappie
1961	618-3304 (69%)	.025	.000-.066 (160%)	0.22	0.09	Bluegill
26	0-87 (231%)	.000	.000-.001 (226%)	0.00	0.00	Unidentified buffal
30	0-72 (140%)	.000	.000-.001 (197%)	0.00	0.00	Carp
10	0-31 (206%)	.000	.000-.000 (205%)	0.00	0.00	Unidentified catfis
10668	8708-12628 (18%)	.078	.057-.099 (27%)	1.19	0.48	Channel catfish
41	0-105 (160%)	.000	.000-.000 (159%)	0.00	0.00	Crappie spp.
276	34-519 (88%)	.001	.000-.003 (98%)	0.03	0.01	Flathead catfish
421	202-640 (52%)	.002	.000-.004 (85%)	0.05	0.02	Freshwater drum
7	0-22 (196%)	.000	.000-.000 (196%)	0.00	0.00	Green sunfish
6608	4780-8436 (28%)	.039	.023-.056 (42%)	0.74	0.30	Largemouth bass
439	0-1180 (169%)	.005	.000-.015 (188%)	0.05	0.02	Sauger
11	0-29 (167%)	.000	.000-.000 (201%)	0.00	0.00	Shortnose gar
100	0-235 (134%)	.001	.000-.002 (115%)	0.01	0.00	Walleye
59	0-142 (141%)	.000	.000-.000 (119%)	0.01	0.00	Warmouth
161836	101820-221853 (37%)	.940	.695-1.186 (26%)	18.01	7.29	White bass
53809	41963-65656 (22%)	.362	.290-.435 (20%)	5.99	2.42	White crappie
30	0-90 (196%)	.000	.000-.000 (196%)	0.00	0.00	Yellow bullhead
237	0-668 (182%)	.003	.000-.010 (186%)	0.03	0.01	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
47136	39152-55121 (17%)	.310	.256-.365 (18%)	5.25	0.199	All species
28	0-83 (196%)	.000	.000-.000 (196%)	0.00	1.798	Blue catfish
149	0-423 (183%)	.002	.000-.005 (191%)	0.02	2.313	Bigmouth buffalo
3	0-10 (205%)	.000	.000-.000 (205%)	0.00	0.574	Black buffalo
10	0-21 (112%)	.000	.000-.000 (136%)	0.00	0.113	Black crappie
174	54-294 (69%)	.002	.000-.005 (147%)	0.02	0.089	Bluegill
		****	NOT RECORDED ****			Unidentified buffalo
156	0-414 (166%)	.002	.000-.006 (214%)	0.02	5.204	Carp
		****	NOT RECORDED ****			Unidentified catfish
11026	8607-13445 (22%)	.089	.060-.118 (33%)	1.23	1.034	Channel catfish
9	0-24 (169%)	.000	.000-.000 (169%)	0.00	0.224	Crappie spp.
689	101-1277 (85%)	.004	.000-.009 (103%)	0.08	2.492	Flathead catfish
284	126-442 (56%)	.001	.000-.002 (84%)	0.03	0.675	Freshwater drum
1	0-2 (196%)	.000	.000-.000 (196%)	0.00	0.077	Green sunfish
2902	2179-3624 (25%)	.013	.008-.018 (39%)	0.32	0.439	Largemouth bass
750	0-2416 (222%)	.010	.000-.031 (226%)	0.08	1.709	Sauger
4	0-10 (167%)	.000	.000-.000 (201%)	0.00	0.349	Shortnose gar
29	0-62 (110%)	.000	.000-.000 (123%)	0.00	0.293	Walleye
7	0-17 (149%)	.000	.000-.000 (125%)	0.00	0.115	Warmouth
22832	15873-29791 (30%)	.134	.099-.169 (26%)	2.54	0.141	White bass
8070	6298-9842 (22%)	.053	.041-.066 (23%)	0.90	0.150	White crappie
2	0-7 (196%)	.000	.000-.000 (196%)	0.00	0.081	Yellow bullhead
10	0-28 (170%)	.000	.000-.000 (164%)	0.00	0.044	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
103918	86316-121520 (17%)	.684	.564-.804 (18%)	4.68	0.439	All species
62	0-184 (196%)	.000	.000-.001 (196%)	0.00	3.965	Blue catfish
329	0-932 (183%)	.004	.000-.011 (191%)	0.01	5.099	Bigmouth buffalo
8	0-23 (205%)	.000	.000-.000 (205%)	0.00	1.265	Black buffalo
21	0-45 (112%)	.000	.000-.000 (136%)	0.00	0.249	Black crappie
383	119-648 (69%)	.005	.000-.011 (147%)	0.02	0.195	Bluegill
		****	NOT RECORDED ****			Unidentified buffalo
344	0-912 (166%)	.004	.000-.013 (214%)	0.02	11.473	Carp
		****	NOT RECORDED ****			Unidentified catfish
24309	18976-29642 (22%)	.195	.131-.259 (33%)	1.09	2.279	Channel catfish
20	0-54 (169%)	.000	.000-.000 (169%)	0.00	0.493	Crappie spp.
1519	223-2815 (85%)	.009	.000-.019 (103%)	0.07	5.494	Flathead catfish
626	278-975 (56%)	.003	.000-.005 (84%)	0.03	1.489	Freshwater drum
1	0-4 (196%)	.000	.000-.000 (196%)	0.00	0.170	Green sunfish
6397	4805-7989 (25%)	.029	.018-.040 (39%)	0.29	0.968	Largemouth bass
1654	0-5326 (222%)	.021	.000-.068 (226%)	0.07	3.768	Sauger
9	0-23 (167%)	.000	.000-.000 (201%)	0.00	0.770	Shortnose gar
65	0-136 (110%)	.000	.000-.001 (123%)	0.00	0.646	Walleye
15	0-37 (149%)	.000	.000-.000 (125%)	0.00	0.253	Warmouth
50336	34994-65678 (30%)	.295	.218-.373 (26%)	2.27	0.311	White bass
17792	13886-21697 (22%)	.118	.091-.145 (23%)	0.80	0.331	White crappie
5	0-16 (196%)	.000	.000-.000 (196%)	0.00	0.179	Yellow bullhead
23	0-62 (170%)	.000	.000-.001 (164%)	0.00	0.097	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	4.2	4.0-4.4	(5%)	0.5	11.0	488
SHORE	2.6	2.2-2.9	(13%)	0.3	9.1	110
BOAT & SHORE	3.9	3.7-4.1	(5%)	0.3	11.0	598
MILES TRAVELED	31.4	30.0-32.8	(5%)	1	700	1677
SUCCESS RATING (1-10)	3.4	3.3-3.5	(4%)	1	10	1674

*345 samples were from split interviews of completed trips.
30.5% of all 1960 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 11 out of 1960 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	207	1078	70	12						
SHORE INTERVIEWS	278	236	53	21	1	3		1		

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

133 (6.8%)	ANY	All species
4 (0.2%)	BLG	Bluegill
293 (14.9%)	CAT	Unidentified catfish
56 (2.9%)	CCF	Channel catfish
485 (24.7%)	CRP	Crappie spp.
389 (19.8%)	LMB	Largemouth bass
1 (0.1%)	SAR	Sauger
2 (0.1%)	WAE	Walleye
568 (29.0%)	WHB	White bass
29 (1.5%)	WHC	White crappie

