

ILLINOIS NATURAL HISTORY SURVEY
 DIVISION OF ECOLOGY & CONSERVATION SCIENCE
 2006 CREEL SURVEY RESULTS

2006 LAKE DECATUR
 2316 ACRES
 REGION 3, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 04/09/2006 through 10/31/2006
 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: 389/618 = 62.9%

NUMBER OF INTERVIEWS: 1247

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	6819	4625-9013 (32%)	3	2-4 (32%)	1%
	HOLIDAY	4224	2636-5811 (38%)	2	1-3 (38%)	3%
	TOTAL	11043	8334-13751 (25%)	5	4-6 (25%)	2%
SHORE	WEEKDAY	10808	9651-11964 (11%)	5	4-5 (11%)	7%
	HOLIDAY	6002	5107-6897 (15%)	3	2-3 (15%)	13%
	TOTAL	16809	15347-18272 (9%)	7	7-8 (9%)	9%
BOAT & SHORE	WEEKDAY	17627	15146-20107 (14%)	8	7-9 (14%)	5%
	HOLIDAY	10225	8403-12048 (18%)	4	4-5 (18%)	9%
	TOTAL	27852	24774-30930 (11%)	12	11-13 (11%)	6%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
5181	3373-6989	(35%)	.106	.074-.138 (31%)	5.53	2.24	All species
7	0-20	(196%)	.000	.000-.000 (204%)	0.01	0.00	Black buffalo
29	0-72	(150%)	.001	.000-.003 (197%)	0.03	0.01	Black crappie
1061	321-1801	(70%)	.017	.006-.028 (66%)	1.13	0.46	Bluegill
14	0-35	(151%)	.000	.000-.000 (147%)	0.01	0.01	Carp
743	456-1029	(39%)	.018	.010-.027 (44%)	0.79	0.32	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
35	0-73	(108%)	.001	.000-.001 (130%)	0.04	0.02	Flathead catfish
810	0-1654	(104%)	.018	.000-.039 (116%)	0.86	0.35	Freshwater drum
80	0-189	(136%)	.002	.000-.004 (140%)	0.09	0.03	Largemouth bass
744	0-1542	(107%)	.014	.000-.031 (115%)	0.79	0.32	Striped bass x
Whit							
9	0-28	(209%)	.000	.000-.001 (208%)	0.01	0.00	Walleye
412	57-767	(86%)	.012	.000-.024 (102%)	0.44	0.18	White bass
1238	32-2444	(97%)	.023	.011-.036 (54%)	1.32	0.53	White crappie

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1987	842-3132	(58%)	.042	.024-.059 (42%)	2.12	0.384	All species
14	0-44	(204%)	.000	.000-.001 (196%)	0.02	2.135	Black buffalo
12	0-30	(147%)	.000	.000-.001 (202%)	0.01	0.423	Black crappie
67	22-111	(67%)	.001	.000-.002 (69%)	0.07	0.063	Bluegill
18	0-45	(156%)	.000	.000-.001 (151%)	0.02	1.253	Carp
887	0-1959	(121%)	.018	.003-.034 (84%)	0.95	1.194	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
34	0-69	(106%)	.000	.000-.001 (113%)	0.04	0.956	Flathead catfish
138	29-246	(79%)	.003	.000-.006 (94%)	0.15	0.170	Freshwater drum
35	0-88	(153%)	.001	.000-.001 (131%)	0.04	0.434	Largemouth bass
206	13-400	(94%)	.004	.000-.007 (96%)	0.22	0.277	Striped bass x
Whit							
8	0-26	(208%)	.000	.000-.001 (208%)	0.01	0.939	Walleye
188	20-356	(89%)	.006	.000-.011 (105%)	0.20	0.457	White bass
380	51-710	(87%)	.008	.003-.014 (64%)	0.41	0.307	White crappie

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
4382	1857-6906	(58%)	.092	.054-.131 (42%)	1.89	0.846	All species
32	0-97	(204%)	.000	.000-.001 (196%)	0.01	4.708	Black buffalo
27	0-66	(147%)	.001	.000-.003 (202%)	0.01	0.932	Black crappie
147	49-246	(67%)	.002	.001-.004 (69%)	0.06	0.139	Bluegill
39	0-99	(156%)	.000	.000-.001 (151%)	0.02	2.763	Carp
1955	0-4320	(121%)	.040	.007-.074 (84%)	0.84	2.632	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
74	0-152	(106%)	.001	.000-.002 (113%)	0.03	2.107	Flathead catfish
304	65-543	(79%)	.006	.000-.012 (94%)	0.13	0.376	Freshwater drum
77	0-194	(153%)	.001	.000-.003 (131%)	0.03	0.958	Largemouth bass
455	29-881	(94%)	.008	.000-.015 (96%)	0.20	0.611	Striped bass x
Whit							
19	0-57	(209%)	.000	.000-.001 (208%)	0.01	2.070	Walleye
415	45-785	(89%)	.012	.000-.025 (105%)	0.18	1.008	White bass
839	113-1565	(87%)	.019	.007-.031 (64%)	0.36	0.677	White crappie

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
24150	18637-29662	(23%)	.525	.419-.631 (20%)	25.77	10.43	All species
7	0-20	(196%)	.000	.000-.000 (204%)	0.01	0.00	Black buffalo
259	32-486	(87%)	.010	.000-.022 (118%)	0.28	0.11	Black crappie
3563	2223-4902	(38%)	.076	.046-.105 (39%)	3.80	1.54	Bluegill
14	0-35	(151%)	.000	.000-.000 (147%)	0.01	0.01	Carp
1979	1412-2546	(29%)	.044	.030-.057 (32%)	2.11	0.85	Channel catfish
16	0-52	(226%)	.000	.000-.001 (223%)	0.02	0.01	Crappie spp.
35	0-73	(108%)	.001	.000-.001 (130%)	0.04	0.02	Flathead catfish
1213	341-2084	(72%)	.026	.004-.047 (83%)	1.29	0.52	Freshwater drum
254	29-480	(89%)	.005	.001-.008 (74%)	0.27	0.11	Largemouth bass
1433	384-2481	(73%)	.031	.010-.052 (68%)	1.53	0.62	Striped bass x
Whit							
48	4-92	(91%)	.001	.000-.001 (93%)	0.05	0.02	Walleye
5758	1734-9781	(70%)	.129	.067-.191 (48%)	6.14	2.49	White bass
9571	6394-12749	(33%)	.204	.138-.269 (32%)	10.21	4.13	White crappie

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
4434	2648-6220	(40%)	.090	.064-.117 (29%)	4.73	0.184	All species
14	0-44	(204%)	.000	.000-.001 (196%)	0.02	2.135	Black buffalo
42	13-72	(70%)	.001	.000-.003 (102%)	0.05	0.163	Black crappie
207	108-306	(48%)	.004	.002-.005 (45%)	0.22	0.058	Bluegill
18	0-45	(156%)	.000	.000-.001 (151%)	0.02	1.253	Carp
962	0-2038	(112%)	.020	.004-.035 (78%)	1.03	0.486	Channel catfish
1	0-3	(223%)	.000	.000-.000 (223%)	0.00	0.050	Crappie spp.
34	0-69	(106%)	.000	.000-.001 (113%)	0.04	0.956	Flathead catfish
184	70-298	(62%)	.004	.001-.007 (73%)	0.20	0.152	Freshwater drum
67	3-130	(96%)	.001	.000-.002 (85%)	0.07	0.262	Largemouth bass
366	33-699	(91%)	.007	.001-.013 (86%)	0.39	0.255	Striped bass x
Whit							
14	0-32	(131%)	.000	.000-.001 (159%)	0.01	0.291	Walleye
1356	0-2779	(105%)	.028	.009-.048 (70%)	1.45	0.235	White bass
1171	627-1714	(46%)	.024	.015-.034 (38%)	1.25	0.122	White crappie

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
9776	5838-13713 (40%)	.199	.142-.257 (29%)	4.22	0.405	All species
32	0-97 (204%)	.000	.000-.001 (196%)	0.01	4.708	Black buffalo
93	28-159 (70%)	.003	.000-.006 (102%)	0.04	0.359	Black crappie
456	238-674 (48%)	.008	.005-.012 (45%)	0.20	0.128	Bluegill
39	0-99 (156%)	.000	.000-.001 (151%)	0.02	2.763	Carp
2120	0-4493 (112%)	.043	.009-.077 (78%)	0.92	1.071	Channel catfish
2	0-6 (223%)	.000	.000-.000 (226%)	0.00	0.110	Crappie spp.
74	0-152 (106%)	.001	.000-.002 (113%)	0.03	2.107	Flathead catfish
407	155-658 (62%)	.008	.002-.014 (73%)	0.18	0.335	Freshwater drum
147	6-287 (96%)	.003	.000-.005 (85%)	0.06	0.577	Largemouth bass
807	73-1540 (91%)	.015	.002-.028 (86%)	0.35	0.563	Striped bass x
Whit						
31	0-71 (131%)	.001	.000-.001 (159%)	0.01	0.641	Walleye
2989	0-6126 (105%)	.062	.019-.106 (70%)	1.29	0.519	White bass
2581	1383-3779 (46%)	.054	.034-.074 (38%)	1.11	0.270	White crappie

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

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	2.3	1.6-3.0 (29%)	0.7	5.0	15
SHORE	0.8	0.8-0.9 (7%)	0.1	3.4	369
BOAT & SHORE	0.9	0.8-1.0 (8%)	0.1	5.0	384
MILES TRAVELED	4.7	4.4-5.0 (6%)	1	150	1231
SUCCESS RATING (1-10)	1.4	1.3-1.4 (4%)	1	9	1230

*8 samples were from split interviews of completed trips.

31.0% of all 1239 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 1239 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	42	22	4							
SHORE INTERVIEWS	790	323	51	1	4	1	1			

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

111 (9.0%)	ANY	All species
13 (1.0%)	BKB	Black buffalo
1 (0.1%)	BLC	Black crappie
14 (1.1%)	BLG	Bluegill
5 (0.4%)	CAP	Carp
579 (46.7%)	CCF	Channel catfish
384 (31.0%)	CRP	Crappie spp.
1 (0.1%)	FRD	Freshwater drum
27 (2.2%)	LMB	Largemouth bass
9 (0.7%)	SBH	Striped bass x White bass hybrid (Wiper)
90 (7.3%)	WHB	White bass
5 (0.4%)	WHC	White crappie

2006 LAKE DECATUR

DAY CREEL

04/09/2006 - 10/31/2006

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+
White crappie																
HARVEST	501	-	-	3	-	1	-	-	1	-	-	-	-	-	-	-
RELEASE	475	2	15	3	2	3	-	1	3	-	1	-	1	-	-	-