

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1989 CREEL SURVEY RESULTS

1989 SANGCHRIS
 1970 ACRES
 REGION 4, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1989 through 11/15/1989
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.
 Yearperiod 1 coalesced with yearperiod 2.
 Yearperiod 7 coalesced with yearperiod 8.

SAMPLING RATIO: 371/738 = 50.3%

NUMBER OF INTERVIEWS: 4791

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	64787	56315-73259 (13%)	33	29-37 (13%)	6%
	HOLIDAY	72937	62676-83197 (14%)	37	32-42 (14%)	11%
	TOTAL	137724	125086-150361(9%)	70	63-76 (9%)	9%
SHORE	WEEKDAY	37878	31178-44578 (18%)	19	16-23 (18%)	4%
	HOLIDAY	53378	39274-67482 (26%)	27	20-34 (26%)	6%
	TOTAL	91256	75934-106579(17%)	46	39-54 (17%)	5%
BOAT & SHORE	WEEKDAY	102665	91864-113466(11%)	52	47-58 (11%)	5%
	HOLIDAY	126315	109685-142945(13%)	64	56-73 (13%)	9%
	TOTAL	228980	209945-248015(8%)	116	107-126 (8%)	7%

1989 SANGCHRIS

DAY CREEL

03/15/1989 - 11/15/1989

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
61147	49669-72625 (19%)	.241	.202-.281 (16%)	76.70	31.04	All species
819	0-2844 (247%)	.001	.000-.003 (211%)	1.03	0.42	Black bullhead
1700	261-3139 (85%)	.003	.001-.004 (67%)	2.13	0.86	Black crappie
19812	11819-27805 (40%)	.073	.049-.096 (32%)	24.85	10.06	Bluegill
		****	NOT RECORDED ****			Brook silverside
229	93-364 (59%)	.001	.000-.002 (68%)	0.29	0.12	Carp
24687	18675-30698 (24%)	.095	.072-.118 (24%)	30.96	12.53	Channel catfish
136	0-496 (265%)	.000	.000-.002 (272%)	0.17	0.07	Flathead catfish
295	3-587 (99%)	.001	.000-.002 (96%)	0.37	0.15	Freshwater drum
512	53-971 (90%)	.002	.000-.003 (93%)	0.64	0.26	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
4209	3023-5395 (28%)	.020	.008-.032 (60%)	5.28	2.14	Largemouth bass
		****	NOT RECORDED ****			Rainbow trout
55	1-110 (98%)	.000	.000-.000 (126%)	0.07	0.03	Striped bass
4377	2304-6450 (47%)	.023	.007-.038 (67%)	5.49	2.22	White bass
3307	756-5858 (77%)	.017	.005-.030 (72%)	4.15	1.68	White crappie
252	0-596 (137%)	.001	.000-.002 (91%)	0.32	0.13	Yellow bullhead
758	0-2383 (214%)	.004	.000-.008 (135%)	0.95	0.38	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
15550	12850-18250 (17%)	.062	.048-.076 (22%)	19.50	0.254	All species
62	0-210 (240%)	.000	.000-.000 (190%)	0.08	0.075	Black bullhead
282	23-541 (92%)	.001	.000-.001 (84%)	0.35	0.166	Black crappie
1438	799-2078 (44%)	.005	.003-.007 (35%)	1.80	0.073	Bluegill
		****	NOT RECORDED ****			Brook silverside
112	36-188 (68%)	.001	.000-.001 (80%)	0.14	0.492	Carp
6462	4797-8127 (26%)	.026	.017-.034 (34%)	8.11	0.262	Channel catfish
51	0-175 (246%)	.000	.000-.001 (197%)	0.06	0.375	Flathead catfish
47	1-93 (97%)	.000	.000-.000 (96%)	0.06	0.160	Freshwater drum
36	4-68 (89%)	.000	.000-.000 (80%)	0.05	0.070	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
4760	3399-6120 (29%)	.018	.008-.028 (56%)	5.97	1.131	Largemouth bass
		****	NOT RECORDED ****			Rainbow trout
185	0-415 (124%)	.000	.000-.001 (123%)	0.23	3.370	Striped bass
1208	593-1822 (51%)	.007	.001-.012 (82%)	1.51	0.276	White bass
822	167-1476 (80%)	.004	.001-.007 (68%)	1.03	0.249	White crappie
48	0-109 (129%)	.000	.000-.001 (116%)	0.06	0.190	Yellow bullhead
37	0-111 (199%)	.000	.000-.001 (169%)	0.05	0.049	Yellow bass

1989 SANGCHRIS

DAY CREEL

03/15/1989 - 11/15/1989

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
34281	28329-40233	(17%)	.137	.107-.166 (22%)	17.40	0.561	All species
136	0-462	(240%)	.000	.000-.001 (190%)	0.07	0.166	Black bullhead
622	52-1192	(92%)	.001	.000-.002 (84%)	0.32	0.366	Black crappie
3171	1761-4581	(44%)	.011	.007-.015 (35%)	1.61	0.160	Bluegill
			****	NOT RECORDED ****			Brook silverside
247	80-414	(68%)	.002	.000-.003 (80%)	0.13	1.084	Carp
14247	10576-17918	(26%)	.057	.038-.076 (34%)	7.23	0.577	Channel catfish
112	0-386	(246%)	.000	.000-.001 (197%)	0.06	0.827	Flathead catfish
104	3-206	(97%)	.000	.000-.001 (96%)	0.05	0.353	Freshwater drum
79	9-150	(89%)	.000	.000-.000 (80%)	0.04	0.155	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
10493	7494-13492	(29%)	.039	.017-.062 (56%)	5.33	2.493	Largemouth bass
			****	NOT RECORDED ****			Rainbow trout
409	0-915	(124%)	.001	.000-.002 (123%)	0.21	7.429	Striped bass
2662	1308-4016	(51%)	.015	.003-.027 (82%)	1.35	0.608	White bass
1812	369-3255	(80%)	.009	.003-.015 (68%)	0.92	0.548	White crappie
105	0-241	(129%)	.001	.000-.001 (116%)	0.05	0.419	Yellow bullhead
82	0-245	(199%)	.001	.000-.001 (169%)	0.04	0.108	Yellow bass

1989 SANGCHRIS

DAY CREEL

03/15/1989 - 11/15/1989

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
243883	216765-271001 (11%)	.992	.888-1.096 (11%)	305.91	123.80	All species
1016	0-3065 (202%)	.002	.000-.004 (135%)	1.27	0.52	Black bullhead
3378	859-5897 (75%)	.007	.000-.021 (189%)	4.24	1.71	Black crappie
40409	30417-50400 (25%)	.148	.117-.179 (21%)	50.69	20.51	Bluegill
18	0-61 (236%)	.000	.000-.000 (231%)	0.02	0.01	Brook silverside
367	162-571 (56%)	.002	.001-.004 (57%)	0.46	0.19	Carp
33565	27155-39975 (19%)	.150	.111-.189 (26%)	42.10	17.04	Channel catfish
136	0-496 (265%)	.000	.000-.002 (272%)	0.17	0.07	Flathead catfish
880	320-1440 (64%)	.003	.002-.005 (48%)	1.10	0.45	Freshwater drum
992	440-1545 (56%)	.005	.001-.008 (81%)	1.24	0.50	Green sunfish
59	0-196 (231%)	.000	.000-.001 (226%)	0.07	0.03	Gizzard shad
142624	123115-162133 (14%)	.561	.476-.646 (15%)	178.90	72.40	Largemouth bass
22	0-69 (216%)	.000	.000-.000 (218%)	0.03	0.01	Rainbow trout
216	34-398 (84%)	.001	.000-.002 (81%)	0.27	0.11	Striped bass
8431	6102-10759 (28%)	.053	.026-.079 (50%)	10.57	4.28	White bass
8439	4958-11920 (41%)	.041	.022-.060 (46%)	10.59	4.28	White crappie
479	33-926 (93%)	.001	.000-.002 (79%)	0.60	0.24	Yellow bullhead
2852	1232-4471 (57%)	.017	.003-.032 (84%)	3.58	1.45	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
51560	45776-57343 (11%)	.204	.178-.231 (13%)	64.67	0.211	All species
93	0-247 (167%)	.000	.000-.000 (116%)	0.12	0.091	Black bullhead
356	69-642 (81%)	.001	.000-.002 (120%)	0.45	0.105	Black crappie
2337	1635-3038 (30%)	.008	.006-.010 (24%)	2.93	0.058	Bluegill
0	0-0 (231%)	.000	.000-.000 (236%)	0.00	0.001	Brook silverside
180	71-290 (61%)	.001	.000-.002 (59%)	0.23	0.493	Carp
7199	5519-8880 (23%)	.030	.020-.039 (32%)	9.03	0.214	Channel catfish
51	0-175 (246%)	.000	.000-.001 (197%)	0.06	0.375	Flathead catfish
110	49-171 (56%)	.000	.000-.001 (56%)	0.14	0.125	Freshwater drum
53	19-88 (65%)	.000	.000-.000 (60%)	0.07	0.054	Green sunfish
2	0-7 (226%)	.000	.000-.000 (231%)	0.00	0.037	Gizzard shad
37945	32983-42906 (13%)	.146	.122-.170 (17%)	47.59	0.266	Largemouth bass
2	0-7 (216%)	.000	.000-.000 (218%)	0.00	0.113	Rainbow trout
208	0-441 (112%)	.001	.000-.001 (99%)	0.26	0.967	Striped bass
1663	1035-2291 (38%)	.010	.004-.016 (62%)	2.09	0.197	White bass
1171	494-1847 (58%)	.006	.003-.009 (50%)	1.47	0.139	White crappie
69	3-135 (96%)	.000	.000-.001 (108%)	0.09	0.144	Yellow bullhead
122	48-195 (61%)	.001	.000-.002 (104%)	0.15	0.043	Yellow bass

1989 SANGCHRIS

DAY CREEL

03/15/1989 - 11/15/1989

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
113669	100919-126420 (11%)	.450	.392-.509 (13%)	57.70	0.466	All species
204	0-545 (167%)	.000	.000-.001 (116%)	0.10	0.201	Black bullhead
785	153-1416 (81%)	.002	.000-.004 (120%)	0.40	0.232	Black crappie
5152	3605-6698 (30%)	.018	.014-.023 (24%)	2.62	0.127	Bluegill
0	0-0 (236%)	.000	.000-.000 (236%)	0.00	0.001	Brook silverside
398	156-639 (61%)	.002	.001-.004 (59%)	0.20	1.086	Carp
15872	12168-19576 (23%)	.066	.045-.087 (32%)	8.06	0.473	Channel catfish
112	0-386 (246%)	.000	.000-.001 (197%)	0.06	0.827	Flathead catfish
242	107-376 (56%)	.001	.000-.002 (56%)	0.12	0.275	Freshwater drum
118	42-194 (65%)	.000	.000-.001 (60%)	0.06	0.119	Green sunfish
5	0-16 (226%)	.000	.000-.000 (231%)	0.00	0.081	Gizzard shad
83653	72715-94592 (13%)	.322	.269-.376 (17%)	42.46	0.587	Largemouth bass
5	0-17 (218%)	.000	.000-.000 (218%)	0.00	0.249	Rainbow trout
458	0-971 (112%)	.001	.000-.002 (99%)	0.23	2.132	Striped bass
3666	2281-5050 (38%)	.021	.008-.034 (62%)	1.86	0.435	White bass
2581	1090-4071 (58%)	.013	.006-.019 (50%)	1.31	0.306	White crappie
152	6-298 (96%)	.001	.000-.001 (108%)	0.08	0.317	Yellow bullhead
268	106-431 (61%)	.002	.000-.004 (104%)	0.14	0.094	Yellow bass