

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 1996 CREEL SURVEY RESULTS

1996 BALDWIN LAKE  
 1960 ACRES  
 REGION 4, DISTRICT 21

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/1996 through 11/15/1996  
 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: 313/738 = 42.4%

NUMBER OF INTERVIEWS: 2573

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	23504	21187-25820 ( 10%)	12	11-13 ( 10%)	13%
	HOLIDAY	26132	24036-28229 ( 8%)	13	12-14 ( 8%)	21%
	TOTAL	49636	46512-52760 ( 6%)	25	24-27 ( 6%)	17%
SHORE	WEEKDAY	9595	8562-10628 ( 11%)	5	4-5 ( 11%)	12%
	HOLIDAY	8254	7472-9035 ( 9%)	4	4-5 ( 9%)	21%
	TOTAL	17849	16553-19144 ( 7%)	9	8-10 ( 7%)	16%
BOAT & SHORE	WEEKDAY	33099	30562-35635 ( 8%)	17	16-18 ( 8%)	13%
	HOLIDAY	34386	32148-36624 ( 7%)	18	16-19 ( 7%)	21%
	TOTAL	67484	64102-70867 ( 5%)	34	33-36 ( 5%)	17%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
12885	11152-14617	( 13%)	.217	.168-.265 ( 22%)	16.24	6.57	All species
74	14-135	( 81%)	.001	.000-.002 (117%)	0.09	0.04	Blue catfish
			****	NOT RECORDED	****		Black crappie
5048	3479-6617	( 31%)	.105	.058-.152 ( 45%)	6.36	2.58	Bluegill
21	0-65	(210%)	.001	.000-.002 (251%)	0.03	0.01	Carp
5681	4733-6629	( 17%)	.082	.062-.102 ( 25%)	7.16	2.90	Channel catfish
71	33-110	( 54%)	.001	.000-.002 ( 69%)	0.09	0.04	Flathead catfish
223	112-335	( 50%)	.003	.001-.006 ( 80%)	0.28	0.11	Freshwater drum
16	0-38	(140%)	.000	.000-.000 (137%)	0.02	0.01	Green sunfish
			****	NOT RECORDED	****		Gizzard shad
264	150-378	( 43%)	.003	.001-.004 ( 59%)	0.33	0.13	Largemouth bass
841	408-1273	( 51%)	.011	.005-.017 ( 52%)	1.06	0.43	Longear sunfish
66	0-143	(114%)	.001	.000-.002 (118%)	0.08	0.03	Orangespotted sunfi
73	0-200	(175%)	.001	.000-.003 (197%)	0.09	0.04	Redear sunfish
303	155-451	( 49%)	.006	.001-.011 ( 88%)	0.38	0.15	Striped bass x Whit
			****	NOT RECORDED	****		Threadfin shad
			****	NOT RECORDED	****		Warmouth
23	0-59	(154%)	.000	.000-.001 (153%)	0.03	0.01	White bass
180	67-292	( 63%)	.002	.001-.003 ( 71%)	0.23	0.09	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
3059	2560-3557	( 16%)	.046	.036-.057 ( 23%)	3.86	0.237	All species
232	6-459	( 98%)	.003	.000-.006 (131%)	0.29	3.117	Blue catfish
			****	NOT RECORDED	****		Black crappie
409	311-507	( 24%)	.009	.003-.016 ( 70%)	0.52	0.081	Bluegill
15	0-46	(216%)	.000	.000-.001 (252%)	0.02	0.704	Carp
1036	849-1222	( 18%)	.015	.011-.019 ( 27%)	1.31	0.182	Channel catfish
195	46-343	( 76%)	.003	.001-.005 ( 72%)	0.25	2.735	Flathead catfish
74	42-105	( 43%)	.001	.000-.001 ( 55%)	0.09	0.330	Freshwater drum
2	0-6	(232%)	.000	.000-.000 (152%)	0.00	0.118	Green sunfish
			****	NOT RECORDED	****		Gizzard shad
405	219-591	( 46%)	.004	.002-.007 ( 64%)	0.51	1.534	Largemouth bass
46	22-71	( 53%)	.001	.000-.001 ( 51%)	0.06	0.055	Longear sunfish
2	0-4	(121%)	.000	.000-.000 (124%)	0.00	0.029	Orangespotted sunfi
3	0-8	(204%)	.000	.000-.000 (201%)	0.00	0.037	Redear sunfish
579	252-906	( 56%)	.010	.001-.019 ( 86%)	0.73	1.912	Striped bass x Whit
			****	NOT RECORDED	****		Threadfin shad
			****	NOT RECORDED	****		Warmouth
17	0-39	(126%)	.000	.000-.001 (126%)	0.02	0.741	White bass
45	15-74	( 67%)	.001	.000-.001 ( 94%)	0.06	0.249	White crappie

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
6743	5645-7841	( 16%)	.102	.079-.126 ( 23%)	3.44	0.523	All species
512	12-1011	( 98%)	.006	.000-.013 (131%)	0.26	6.872	Blue catfish
			****	NOT RECORDED ****			Black crappie
902	686-1118	( 24%)	.020	.006-.035 ( 70%)	0.46	0.179	Bluegill
32	0-102	(216%)	.001	.000-.003 (252%)	0.02	1.551	Carp
2283	1872-2694	( 18%)	.033	.024-.042 ( 27%)	1.16	0.402	Channel catfish
429	101-757	( 76%)	.006	.002-.010 ( 72%)	0.22	6.029	Flathead catfish
162	92-233	( 43%)	.002	.001-.003 ( 55%)	0.08	0.727	Freshwater drum
4	0-14	(232%)	.000	.000-.000 (152%)	0.00	0.260	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
893	483-1302	( 46%)	.009	.003-.015 ( 64%)	0.46	3.381	Largemouth bass
102	48-155	( 53%)	.001	.001-.002 ( 51%)	0.05	0.121	Longear sunfish
4	0-9	(121%)	.000	.000-.000 (124%)	0.00	0.064	Orangespotted sunfi
6	0-18	(204%)	.000	.000-.000 (201%)	0.00	0.081	Redear sunfish
1277	556-1998	( 56%)	.022	.003-.041 ( 86%)	0.65	4.215	Striped bass x Whit
			****	NOT RECORDED ****			Threadfin shad
			****	NOT RECORDED ****			Warmouth
38	0-86	(126%)	.001	.000-.001 (126%)	0.02	1.633	White bass
99	33-164	( 67%)	.001	.000-.002 ( 94%)	0.05	0.548	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
17855	16009-19701 ( 10%)	.348	.279-.416 ( 20%)	22.51	9.11	All species
111	41-180 ( 63%)	.001	.000-.002 ( 84%)	0.14	0.06	Blue catfish
17	0-57 (236%)	.000	.000-.000 (245%)	0.02	0.01	Black crappie
5478	3899-7056 ( 29%)	.126	.080-.171 ( 36%)	6.91	2.79	Bluegill
59	9-110 ( 85%)	.001	.000-.003 (137%)	0.07	0.03	Carp
6717	5725-7710 ( 15%)	.127	.075-.179 ( 41%)	8.47	3.43	Channel catfish
77	38-116 ( 50%)	.001	.000-.002 ( 67%)	0.10	0.04	Flathead catfish
664	437-890 ( 34%)	.013	.004-.022 ( 66%)	0.84	0.34	Freshwater drum
131	0-504 (286%)	.002	.000-.004 (134%)	0.16	0.07	Green sunfish
17	0-41 (142%)	.000	.000-.001 (144%)	0.02	0.01	Gizzard shad
2429	2044-2813 ( 16%)	.038	.026-.049 ( 31%)	3.06	1.24	Largemouth bass
876	442-1310 ( 50%)	.012	.006-.018 ( 48%)	1.10	0.45	Longear sunfish
70	0-146 (108%)	.001	.000-.002 (109%)	0.09	0.04	Orangespotted sunfi
73	0-200 (175%)	.001	.000-.003 (197%)	0.09	0.04	Redear sunfish
756	513-1000 ( 32%)	.019	.008-.030 ( 57%)	0.95	0.39	Striped bass x Whit
		****	NOT RECORDED ****			Threadfin shad
2	0-9 (245%)	.000	.000-.000 (236%)	0.00	0.00	Warmouth
96	43-149 ( 55%)	.001	.001-.002 ( 55%)	0.12	0.05	White bass
283	144-421 ( 49%)	.003	.002-.005 ( 49%)	0.36	0.14	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
5822	5187-6457 ( 11%)	.104	.074-.133 ( 28%)	7.34	0.326	All species
288	49-526 ( 83%)	.003	.000-.007 (102%)	0.36	2.603	Blue catfish
4	0-13 (245%)	.000	.000-.000 (245%)	0.00	0.227	Black crappie
432	333-530 ( 23%)	.011	.004-.017 ( 59%)	0.54	0.079	Bluegill
45	6-84 ( 86%)	.001	.000-.002 (135%)	0.06	0.766	Carp
1143	950-1335 ( 17%)	.019	.015-.024 ( 24%)	1.44	0.170	Channel catfish
227	71-384 ( 69%)	.003	.001-.005 ( 66%)	0.29	2.958	Flathead catfish
252	163-340 ( 35%)	.004	.001-.007 ( 65%)	0.32	0.379	Freshwater drum
5	0-11 (138%)	.000	.000-.000 (106%)	0.01	0.036	Green sunfish
1	0-3 (167%)	.000	.000-.000 (154%)	0.00	0.072	Gizzard shad
2204	1847-2561 ( 16%)	.032	.023-.041 ( 29%)	2.78	0.908	Largemouth bass
48	23-72 ( 51%)	.001	.000-.001 ( 48%)	0.06	0.054	Longear sunfish
2	0-4 (118%)	.000	.000-.000 (120%)	0.00	0.028	Orangespotted sunfi
3	0-8 (204%)	.000	.000-.000 (201%)	0.00	0.037	Redear sunfish
1052	677-1427 ( 36%)	.028	.006-.051 ( 79%)	1.33	1.391	Striped bass x Whit
		****	NOT RECORDED ****			Threadfin shad
0	0-1 (245%)	.000	.000-.000 (245%)	0.00	0.097	Warmouth
50	16-84 ( 68%)	.001	.000-.001 ( 69%)	0.06	0.521	White bass
67	34-100 ( 50%)	.001	.000-.001 ( 59%)	0.08	0.237	White crappie

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
12835	11435-14235 ( 11%)	.229	.164-.294 ( 28%)	6.55	0.719	All species
634	108-1160 ( 83%)	.008	.000-.016 (102%)	0.32	5.739	Blue catfish
8	0-28 (236%)	.000	.000-.000 (245%)	0.00	0.501	Black crappie
952	734-1169 ( 23%)	.024	.010-.038 ( 59%)	0.49	0.174	Bluegill
100	14-186 ( 86%)	.002	.000-.004 (135%)	0.05	1.688	Carp
2519	2095-2943 ( 17%)	.043	.032-.053 ( 24%)	1.29	0.375	Channel catfish
501	156-846 ( 69%)	.007	.002-.011 ( 66%)	0.26	6.520	Flathead catfish
555	360-750 ( 35%)	.009	.003-.015 ( 65%)	0.28	0.836	Freshwater drum
10	0-25 (138%)	.000	.000-.000 (106%)	0.01	0.079	Green sunfish
3	0-7 (167%)	.000	.000-.000 (154%)	0.00	0.158	Gizzard shad
4859	4073-5646 ( 16%)	.071	.050-.091 ( 29%)	2.48	2.001	Largemouth bass
105	51-159 ( 51%)	.001	.001-.002 ( 48%)	0.05	0.120	Longear sunfish
4	0-9 (118%)	.000	.000-.000 (120%)	0.00	0.062	Orangespotted sunfi
6	0-18 (204%)	.000	.000-.000 (201%)	0.00	0.081	Redear sunfish
2320	1493-3147 ( 36%)	.062	.013-.112 ( 79%)	1.18	3.067	Striped bass x Whit
		****	NOT RECORDED ****			Threadfin shad
1	0-2 (245%)	.000	.000-.000 (245%)	0.00	0.213	Warmouth
110	36-185 ( 68%)	.001	.000-.002 ( 69%)	0.06	1.149	White bass
147	74-221 ( 50%)	.002	.001-.003 ( 59%)	0.08	0.521	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	4.7	4.5-4.8	( 3%)	0.5	13.2	982
SHORE	3.2	2.8-3.5	( 11%)	0.4	8.0	113
BOAT & SHORE	4.5	4.4-4.7	( 3%)	0.4	13.2	1095
MILES TRAVELED	29.9	29.2-30.6	( 2%)	2	190	1546
SUCCESS RATING (1-10)	4.4	4.2-4.5	( 3%)	1	10	1543

\*793 samples were from split interviews of completed trips.  
63.4% of all 1727 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 6 out of 1727 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	251	616	120	19	1					
SHORE INTERVIEWS	257	283	102	51	18	7		2		

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

607 ( 35.1%)	ANY	All species
1 ( 0.1%)	BCF	Blue catfish
116 ( 6.7%)	BLG	Bluegill
57 ( 3.3%)	BSS	Black bass spp.
3 ( 0.2%)	CAP	Carp
15 ( 0.9%)	CAT	Unidentified catfish
296 ( 17.1%)	CCF	Channel catfish
4 ( 0.2%)	CRP	Crappie spp.
1 ( 0.1%)	FCF	Flathead catfish
1 ( 0.1%)	FRD	Freshwater drum
590 ( 34.2%)	LMB	Largemouth bass
29 ( 1.7%)	SBH	Striped bass x White bass hybrid (Wiper)
2 ( 0.1%)	SUN	Sunfish spp. excluding Crappie and Black Bass
5 ( 0.3%)	WHC	White crappie



