

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 1995 CREEL SURVEY RESULTS

1995 BEAVER DAM LAKE  
 56 ACRES  
 REGION 4, DISTRICT 18

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/1995 through 11/15/1995  
 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: 319/738 = 43.2%

NUMBER OF INTERVIEWS: 2536

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	6386	5391-7382 ( 16%)	114	96-132 ( 16%)	24%
	HOLIDAY	8029	6936-9121 ( 14%)	143	124-163 ( 14%)	54%
	TOTAL	14415	12937-15893 ( 10%)	257	231-284 ( 10%)	41%
SHORE	WEEKDAY	8069	6896-9243 ( 15%)	144	123-165 ( 15%)	21%
	HOLIDAY	7007	6088-7926 ( 13%)	125	109-142 ( 13%)	41%
	TOTAL	15077	13586-16567 ( 10%)	269	243-296 ( 10%)	31%
BOAT & SHORE	WEEKDAY	14456	12917-15995 ( 11%)	258	231-286 ( 11%)	22%
	HOLIDAY	15036	13608-16464 ( 9%)	268	243-294 ( 9%)	48%
	TOTAL	29492	27392-31591 ( 7%)	527	489-564 ( 7%)	35%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
11312	9528-13096	( 16%)	.362	.272-.453 ( 25%)	499.12	201.99	All species
317	107-527	( 66%)	.019	.000-.066 (248%)	14.00	5.67	Black crappie
5986	4570-7402	( 24%)	.166	.095-.237 ( 43%)	264.12	106.89	Bluegill
877	641-1112	( 27%)	.039	.026-.053 ( 34%)	38.68	15.65	Channel catfish
			****	NOT RECORDED ****			Golden shiner
20	4-37	( 80%)	.000	.000-.001 ( 92%)	0.90	0.36	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
381	177-585	( 54%)	.019	.005-.032 ( 73%)	16.80	6.80	Largemouth bass
2389	1511-3267	( 37%)	.055	.031-.079 ( 43%)	105.42	42.66	Rainbow trout
1	0-4	(210%)	.000	.000-.000 (210%)	0.06	0.03	Redear sunfish
1269	733-1805	( 42%)	.062	.011-.113 ( 83%)	55.99	22.66	White crappie
70	0-146	(108%)	.001	.000-.003 ( 96%)	3.09	1.25	Yellow bullhead
2	0-5	(216%)	.000	.000-.000 (218%)	0.07	0.03	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
2169	1833-2505	( 15%)	.079	.059-.098 ( 25%)	95.70	0.192	All species
71	29-113	( 59%)	.003	.000-.006 (113%)	3.12	0.223	Black crappie
383	292-474	( 24%)	.010	.006-.014 ( 41%)	16.88	0.064	Bluegill
369	267-471	( 28%)	.016	.011-.021 ( 31%)	16.28	0.421	Channel catfish
			****	NOT RECORDED ****			Golden shiner
1	0-3	( 81%)	.000	.000-.000 ( 94%)	0.06	0.069	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
356	177-536	( 50%)	.018	.004-.032 ( 77%)	15.73	0.938	Largemouth bass
684	434-935	( 37%)	.015	.009-.021 ( 38%)	30.20	0.286	Rainbow trout
0	0-0	(210%)	.000	.000-.000 (210%)	0.01	0.133	Redear sunfish
290	151-429	( 48%)	.016	.001-.031 ( 92%)	12.78	0.228	White crappie
14	0-29	( 98%)	.000	.000-.001 (102%)	0.63	0.205	Yellow bullhead
0	0-1	(216%)	.000	.000-.000 (216%)	0.01	0.299	Yellow bass

1995 BEAVER DAM LAKE

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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
4781	4041-5522	( 15%)	.174	.131-.217 ( 25%)	85.38	0.423	All species
156	63-248	( 59%)	.007	.000-.014 (113%)	2.78	0.491	Black crappie
844	643-1044	( 24%)	.023	.013-.032 ( 41%)	15.06	0.141	Bluegill
813	588-1039	( 28%)	.035	.024-.045 ( 31%)	14.52	0.928	Channel catfish
			****	NOT RECORDED ****			Golden shiner
3	1-6	( 81%)	.000	.000-.000 ( 94%)	0.05	0.153	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
786	389-1182	( 50%)	.040	.009-.071 ( 77%)	14.03	2.068	Largemouth bass
1509	956-2061	( 37%)	.034	.021-.046 ( 38%)	26.94	0.632	Rainbow trout
0	0-1	(211%)	.000	.000-.000 (210%)	0.01	0.292	Redear sunfish
639	332-945	( 48%)	.036	.003-.068 ( 92%)	11.41	0.504	White crappie
32	1-63	( 98%)	.001	.000-.001 (102%)	0.57	0.453	Yellow bullhead
1	0-2	(216%)	.000	.000-.000 (218%)	0.01	0.659	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
29965	26088-33842	( 13%)	.976	.758-1.194 ( 22%)	1322.21	535.09	All species
802	481-1123	( 40%)	.040	.006-.075 ( 86%)	35.38	14.32	Black crappie
14425	11658-17191	( 19%)	.377	.272-.482 ( 28%)	636.49	257.58	Bluegill
1302	1005-1598	( 23%)	.050	.035-.064 ( 29%)	57.43	23.24	Channel catfish
20	0-56	(180%)	.000	.000-.000 (170%)	0.88	0.36	Golden shiner
137	61-214	( 56%)	.005	.000-.013 (146%)	6.05	2.45	Green sunfish
212	0-460	(117%)	.002	.001-.003 ( 65%)	9.34	3.78	Gizzard shad
5010	4020-5999	( 20%)	.186	.137-.236 ( 27%)	221.05	89.46	Largemouth bass
3393	2150-4635	( 37%)	.081	.055-.108 ( 32%)	149.70	60.58	Rainbow trout
1	0-4	(210%)	.000	.000-.000 (210%)	0.06	0.03	Redear sunfish
4569	2509-6630	( 45%)	.232	.010-.455 ( 96%)	201.63	81.60	White crappie
90	1-178	( 99%)	.002	.000-.004 ( 97%)	3.96	1.60	Yellow bullhead
5	0-12	(141%)	.000	.000-.001 (204%)	0.23	0.09	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
5116	4464-5767	( 13%)	.189	.148-.229 ( 22%)	225.73	0.171	All species
123	70-177	( 43%)	.005	.002-.009 ( 70%)	5.45	0.154	Black crappie
606	463-748	( 23%)	.016	.011-.021 ( 30%)	26.73	0.042	Bluegill
480	329-630	( 31%)	.018	.013-.023 ( 28%)	21.17	0.369	Channel catfish
1	0-2	(176%)	.000	.000-.000 (166%)	0.03	0.038	Golden shiner
5	2-8	( 52%)	.000	.000-.000 (111%)	0.23	0.037	Green sunfish
15	0-33	(122%)	.000	.000-.000 ( 87%)	0.65	0.070	Gizzard shad
2287	1725-2849	( 25%)	.090	.059-.121 ( 35%)	100.92	0.457	Largemouth bass
944	613-1275	( 35%)	.022	.016-.029 ( 30%)	41.65	0.278	Rainbow trout
0	0-0	(210%)	.000	.000-.000 (210%)	0.01	0.133	Redear sunfish
635	290-980	( 54%)	.037	.000-.078 (111%)	28.03	0.139	White crappie
19	0-38	(101%)	.000	.000-.001 (104%)	0.84	0.214	Yellow bullhead
1	0-2	(152%)	.000	.000-.000 (207%)	0.04	0.178	Yellow bass

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DAY CREEL

03/15/1995 - 11/15/1995

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
11278	9842-12714	( 13%)	.416	.326-.506 ( 22%)	201.39	0.376	All species
272	155-389	( 43%)	.012	.004-.020 ( 70%)	4.86	0.340	Black crappie
1336	1022-1649	( 23%)	.035	.025-.045 ( 30%)	23.85	0.093	Bluegill
1057	726-1389	( 31%)	.039	.028-.050 ( 28%)	18.88	0.813	Channel catfish
2	0-5	(176%)	.000	.000-.000 (166%)	0.03	0.084	Golden shiner
11	5-17	( 52%)	.000	.000-.001 (111%)	0.20	0.082	Green sunfish
32	0-72	(122%)	.000	.000-.001 ( 87%)	0.58	0.154	Gizzard shad
5042	3803-6281	( 25%)	.198	.129-.267 ( 35%)	90.04	1.007	Largemouth bass
2081	1351-2811	( 35%)	.049	.034-.063 ( 30%)	37.16	0.613	Rainbow trout
0	0-1	(211%)	.000	.000-.000 (210%)	0.01	0.292	Redear sunfish
1400	640-2161	( 54%)	.081	.000-.172 (111%)	25.01	0.306	White crappie
42	0-84	(101%)	.001	.000-.002 (104%)	0.75	0.471	Yellow bullhead
2	0-5	(152%)	.000	.000-.000 (207%)	0.04	0.392	Yellow bass

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 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 124/279 = 44.4%

NUMBER OF INTERVIEWS: 1397

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	2443	1756-3130 ( 28%)	44	31-56 ( 28%)	30%
	HOLIDAY	4139	3215-5064 ( 22%)	74	57-90 ( 22%)	75%
	TOTAL	6582	5463-7701 ( 17%)	118	98-138 ( 17%)	58%
SHORE	WEEKDAY	3212	2506-3918 ( 22%)	57	45-70 ( 22%)	25%
	HOLIDAY	2485	1938-3032 ( 22%)	44	35-54 ( 22%)	66%
	TOTAL	5697	4841-6553 ( 15%)	102	86-117 ( 15%)	43%
BOAT & SHORE	WEEKDAY	5655	4703-6607 ( 17%)	101	84-118 ( 17%)	27%
	HOLIDAY	6624	5586-7663 ( 16%)	118	100-137 ( 16%)	72%
	TOTAL	12279	10870-13688 ( 11%)	219	194-244 ( 11%)	51%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
5531	4176-6886	( 25%)	.513	.294-.732 ( 43%)	244.04	98.76	All species
301	93-509	( 69%)	.048	.000-.173 (260%)	13.29	5.38	Black crappie
4238	2994-5482	( 29%)	.282	.110-.453 ( 61%)	187.00	75.68	Bluegill
138	74-202	( 47%)	.012	.006-.018 ( 48%)	6.09	2.46	Channel catfish
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
248	40-456	( 84%)	.038	.002-.073 ( 94%)	10.95	4.43	Largemouth bass
130	0-418	(221%)	.030	.000-.107 (255%)	5.74	2.32	Rainbow trout
474	0-976	(106%)	.103	.000-.240 (132%)	20.91	8.46	White crappie
2	0-5	(216%)	.000	.000-.001 (218%)	0.07	0.03	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
790	603-978	( 24%)	.105	.057-.153 ( 46%)	34.87	0.143	All species
66	25-108	( 63%)	.007	.000-.017 (131%)	2.93	0.221	Black crappie
261	182-340	( 30%)	.017	.007-.027 ( 60%)	11.52	0.062	Bluegill
65	32-98	( 51%)	.006	.002-.009 ( 59%)	2.87	0.475	Channel catfish
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
233	59-406	( 75%)	.037	.000-.075 (102%)	10.27	0.939	Largemouth bass
33	0-96	(190%)	.008	.000-.025 (226%)	1.46	0.254	Rainbow trout
131	0-272	(107%)	.031	.000-.071 (132%)	5.80	0.278	White crappie
0	0-1	(216%)	.000	.000-.000 (216%)	0.01	0.299	Yellow bass

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1742	1329-2155	( 24%)	.232	.125-.338 ( 46%)	31.11	0.315	All species
146	55-238	( 63%)	.016	.000-.038 (131%)	2.61	0.486	Black crappie
576	401-750	( 30%)	.037	.015-.060 ( 60%)	10.28	0.136	Bluegill
143	70-217	( 51%)	.012	.005-.020 ( 59%)	2.56	1.047	Channel catfish
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
513	130-896	( 75%)	.081	.000-.165 (102%)	9.17	2.070	Largemouth bass
73	0-211	(190%)	.017	.000-.054 (226%)	1.30	0.561	Rainbow trout
290	0-600	(107%)	.067	.000-.157 (132%)	5.18	0.613	White crappie
1	0-2	(216%)	.000	.000-.001 (218%)	0.01	0.659	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
14395	11215-17575 ( 22%)		1.355	.793-1.917 ( 41%)	635.20	257.06	All species
695	386-1003 ( 44%)		.093	.004-.183 ( 96%)	30.65	12.40	Black crappie
8485	6078-10892 ( 28%)		.553	.310-.797 ( 44%)	374.39	151.51	Bluegill
181	103-259 ( 43%)		.014	.008-.021 ( 44%)	8.01	3.24	Channel catfish
5	0-16 (229%)		.000	.000-.001 (397%)	0.22	0.09	Green sunfish
26	0-123 (376%)		.001	.000-.005 (378%)	1.14	0.46	Gizzard shad
3006	2176-3836 ( 28%)		.276	.164-.389 ( 41%)	132.63	53.68	Largemouth bass
159	0-472 (197%)		.031	.000-.108 (245%)	7.00	2.83	Rainbow trout
1834	0-4050 (121%)		.384	.000-.952 (148%)	80.94	32.76	White crappie
5	0-12 (141%)		.001	.000-.003 (204%)	0.23	0.09	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
2282	1783-2781 ( 22%)		.265	.162-.368 ( 39%)	100.69	0.159	All species
109	57-161 ( 48%)		.012	.003-.022 ( 79%)	4.80	0.157	Black crappie
341	213-470 ( 38%)		.022	.012-.033 ( 48%)	15.06	0.040	Bluegill
71	36-105 ( 49%)		.006	.003-.009 ( 57%)	3.12	0.391	Channel catfish
0	0-0 (362%)		.000	.000-.000 (419%)	0.00	0.019	Green sunfish
3	0-13 (427%)		.000	.000-.000 (427%)	0.11	0.101	Gizzard shad
1406	873-1939 ( 38%)		.143	.062-.225 ( 57%)	62.03	0.468	Largemouth bass
40	0-92 (133%)		.008	.000-.025 (219%)	1.74	0.250	Rainbow trout
312	0-707 (126%)		.073	.000-.180 (148%)	13.78	0.170	White crappie
1	0-2 (152%)		.000	.000-.000 (207%)	0.04	0.178	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
5031	3932-6130 ( 22%)		.583	.356-.810 ( 39%)	89.84	0.349	All species
240	125-354 ( 48%)		.027	.006-.049 ( 79%)	4.28	0.346	Black crappie
752	469-1036 ( 38%)		.049	.026-.073 ( 48%)	13.43	0.089	Bluegill
156	80-232 ( 49%)		.013	.006-.021 ( 57%)	2.79	0.862	Channel catfish
0	0-1 (362%)		.000	.000-.000 (419%)	0.00	0.042	Green sunfish
6	0-29 (427%)		.000	.000-.001 (427%)	0.10	0.222	Gizzard shad
3099	1924-4275 ( 38%)		.316	.136-.496 ( 57%)	55.34	1.031	Largemouth bass
87	0-203 (133%)		.017	.000-.055 (219%)	1.56	0.552	Rainbow trout
688	0-1559 (126%)		.160	.000-.397 (148%)	12.29	0.375	White crappie
2	0-5 (152%)		.000	.000-.001 (207%)	0.04	0.392	Yellow bass