

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1993 CREEL SURVEY RESULTS

1993 BEAVER DAM LAKE
 56 ACRES
 REGION 4, DISTRICT 12

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1993 through 11/15/1993
 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: 335/738 = 45.4%

NUMBER OF INTERVIEWS: 2550

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	7282	6265-8300 (14%)	129	111-147 (14%)	25%
	HOLIDAY	7981	7118-8845 (11%)	141	126-157 (11%)	57%
	TOTAL	15264	13929-16598 (9%)	270	247-294 (9%)	42%
SHORE	WEEKDAY	6868	6125-7610 (11%)	122	108-135 (11%)	23%
	HOLIDAY	5252	4821-5682 (8%)	93	85-101 (8%)	49%
	TOTAL	12119	11261-12978 (7%)	215	199-230 (7%)	34%
BOAT & SHORE	WEEKDAY	14150	12890-15410 (9%)	250	228-273 (9%)	24%
	HOLIDAY	13233	12268-14198 (7%)	234	217-251 (7%)	54%
	TOTAL	27383	25796-28970 (6%)	485	457-513 (6%)	38%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
9201	7846-10557 (15%)	.285	.229-.340 (19%)	402.42	162.86	All species
166	82-250 (51%)	.006	.002-.009 (69%)	7.24	2.93	Black crappie
6888	5613-8163 (19%)	.203	.148-.257 (27%)	301.24	121.91	Bluegill
		****	NOT RECORDED ****			Carp
1379	1050-1707 (24%)	.041	.030-.052 (27%)	60.30	24.40	Channel catfish
		****	NOT RECORDED ****			Golden shiner
		****	NOT RECORDED ****			Green sunfish
		****	NOT RECORDED ****			Gizzard shad
104	58-150 (45%)	.005	.000-.018 (255%)	4.55	1.84	Largemouth bass
3	0-9 (223%)	.000	.000-.000 (226%)	0.13	0.05	Redear x Green
sunf		****	NOT RECORDED ****			Rock bass
4	0-11 (209%)	.000	.000-.000 (208%)	0.16	0.07	Redear sunfish
		****	NOT RECORDED ****			Warmouth
646	429-864 (34%)	.030	.017-.042 (43%)	28.26	11.44	White crappie
12	0-26 (109%)	.000	.000-.000 (129%)	0.53	0.22	Yellow bullhead

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

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2039	1763-2315 (14%)	.068	.055-.081 (19%)	89.17	0.222	All species
35	17-52 (50%)	.001	.000-.002 (67%)	1.51	0.209	Black crappie
1103	888-1317 (19%)	.033	.023-.042 (29%)	48.22	0.160	Bluegill
		****	NOT RECORDED ****			Carp
636	493-779 (22%)	.021	.015-.028 (30%)	27.81	0.461	Channel catfish
		****	NOT RECORDED ****			Golden shiner
		****	NOT RECORDED ****			Green sunfish
		****	NOT RECORDED ****			Gizzard shad
105	64-147 (39%)	.005	.000-.016 (235%)	4.60	1.012	Largemouth bass
0	0-1 (223%)	.000	.000-.000 (226%)	0.02	0.232	Redear x Green
sunf		****	NOT RECORDED ****			Rock bass
2	0-5 (209%)	.000	.000-.000 (209%)	0.07	0.522	Redear sunfish
		****	NOT RECORDED ****			Warmouth
153	95-211 (38%)	.008	.004-.012 (56%)	6.67	0.236	White crappie
6	0-13 (108%)	.000	.000-.000 (134%)	0.26	0.504	Yellow bullhead

1993 BEAVER DAM LAKE

DAY CREEL

03/15/1993 - 11/15/1993

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
4495	3886-5104	(14%)	.150	.122-.178 (19%)	79.56	0.489	All species
76	38-114	(50%)	.003	.001-.005 (67%)	1.35	0.462	Black crappie
2431	1958-2904	(19%)	.072	.051-.093 (29%)	43.02	0.353	Bluegill
			****	NOT RECORDED ****			Carp
1402	1087-1717	(22%)	.047	.033-.061 (30%)	24.81	1.017	Channel catfish
			****	NOT RECORDED ****			Golden shiner
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
232	140-324	(39%)	.010	.000-.034 (235%)	4.11	2.230	Largemouth bass
1	0-3	(226%)	.000	.000-.000 (226%)	0.02	0.511	Redear x Green
sunf			****	NOT RECORDED ****			Rock bass
3	0-11	(209%)	.000	.000-.000 (208%)	0.06	1.151	Redear sunfish
			****	NOT RECORDED ****			Warmouth
336	208-464	(38%)	.018	.008-.027 (56%)	5.95	0.521	White crappie
13	0-28	(108%)	.000	.000-.001 (134%)	0.24	1.111	Yellow bullhead

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
19853	17520-22187	(12%)	.662	.559-.766 (16%)	868.28	351.39	All species
373	212-533	(43%)	.015	.004-.026 (73%)	16.30	6.60	Black crappie
11025	9234-12815	(16%)	.334	.266-.402 (20%)	482.15	195.12	Bluegill
2	0-6	(223%)	.000	.000-.000 (223%)	0.09	0.04	Carp
2136	1559-2714	(27%)	.070	.047-.093 (33%)	93.43	37.81	Channel catfish
217	0-434	(100%)	.011	.000-.026 (124%)	9.49	3.84	Golden shiner
39	1-78	(98%)	.004	.000-.010 (172%)	1.72	0.70	Green sunfish
120	40-201	(67%)	.004	.000-.007 (88%)	5.27	2.13	Gizzard shad
4168	3357-4979	(19%)	.151	.090-.211 (40%)	182.28	73.77	Largemouth bass
3	0-9	(223%)	.000	.000-.000 (226%)	0.13	0.05	Redear x Green
sunf							
12	0-27	(125%)	.000	.000-.000 (122%)	0.53	0.22	Rock bass
4	0-11	(209%)	.000	.000-.000 (208%)	0.16	0.07	Redear sunfish
7	0-26	(257%)	.000	.000-.002 (245%)	0.31	0.13	Warmouth
1726	1341-2110	(22%)	.073	.051-.094 (29%)	75.48	30.55	White crappie
22	0-45	(109%)	.000	.000-.001 (114%)	0.94	0.38	Yellow bullhead

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
3664	3241-4087	(12%)	.123	.104-.142 (16%)	160.24	0.185	All species
56	32-80	(43%)	.002	.001-.004 (64%)	2.45	0.151	Black crappie
1305	1062-1549	(19%)	.038	.028-.048 (26%)	57.09	0.118	Bluegill
0	0-0	(223%)	.000	.000-.000 (226%)	0.01	0.128	Carp
734	572-895	(22%)	.025	.018-.033 (30%)	32.09	0.343	Channel catfish
13	0-28	(112%)	.000	.000-.001 (102%)	0.58	0.062	Golden shiner
2	0-4	(89%)	.000	.000-.000 (152%)	0.09	0.050	Green sunfish
8	2-14	(71%)	.000	.000-.000 (81%)	0.36	0.069	Gizzard shad
1290	1068-1512	(17%)	.045	.032-.058 (29%)	56.41	0.310	Largemouth bass
0	0-1	(223%)	.000	.000-.000 (226%)	0.02	0.232	Redear x Green
sunf							
1	0-3	(120%)	.000	.000-.000 (190%)	0.06	0.118	Rock bass
2	0-5	(209%)	.000	.000-.000 (209%)	0.07	0.522	Redear sunfish
1	0-5	(245%)	.000	.000-.000 (245%)	0.06	0.202	Warmouth
244	176-311	(28%)	.012	.007-.016 (40%)	10.65	0.141	White crappie
7	0-13	(106%)	.000	.000-.000 (130%)	0.28	0.310	Yellow bullhead

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
8077	7144-9011	(12%)	.271	.229-.314 (16%)	142.96	0.407	All species
124	71-177	(43%)	.005	.002-.008 (64%)	2.19	0.333	Black crappie
2878	2341-3415	(19%)	.084	.063-.106 (26%)	50.94	0.261	Bluegill
0	0-1	(223%)	.000	.000-.000 (223%)	0.01	0.283	Carp
1617	1262-1973	(22%)	.055	.039-.072 (30%)	28.63	0.757	Channel catfish
29	0-62	(112%)	.001	.000-.002 (102%)	0.52	0.136	Golden shiner
4	0-8	(89%)	.000	.000-.001 (152%)	0.08	0.110	Green sunfish
18	5-31	(71%)	.000	.000-.001 (81%)	0.32	0.152	Gizzard shad
2844	2354-3333	(17%)	.099	.071-.127 (29%)	50.33	0.682	Largemouth bass
1	0-3	(226%)	.000	.000-.000 (226%)	0.02	0.511	Redear x Green
sunf							
3	0-7	(120%)	.000	.000-.000 (190%)	0.06	0.260	Rock bass
3	0-11	(209%)	.000	.000-.000 (208%)	0.06	1.151	Redear sunfish
3	0-11	(257%)	.000	.000-.001 (257%)	0.06	0.446	Warmouth
537	388-686	(28%)	.026	.015-.036 (40%)	9.50	0.311	White crappie
14	0-30	(106%)	.000	.000-.001 (130%)	0.25	0.683	Yellow bullhead

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1993 CREEL SURVEY RESULTS

1993 BEAVER DAM LAKE
 56 ACRES
 REGION 4, DISTRICT 12

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1993 through 06/15/1993
 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: 147/279 = 52.7%

NUMBER OF INTERVIEWS: 1307

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	2488	1977-2998 (21%)	44	35-53 (21%)	34%
	HOLIDAY	3538	2821-4255 (20%)	63	50-75 (20%)	66%
	TOTAL	6026	5171-6881 (14%)	107	92-122 (14%)	53%
SHORE	WEEKDAY	2857	2451-3263 (14%)	51	43-58 (14%)	30%
	HOLIDAY	2647	2393-2900 (10%)	47	42-51 (10%)	56%
	TOTAL	5504	5025-5982 (9%)	97	89-106 (9%)	43%
BOAT & SHORE	WEEKDAY	5345	4692-5997 (12%)	95	83-106 (12%)	32%
	HOLIDAY	6185	5453-6916 (12%)	109	97-122 (12%)	62%
	TOTAL	11529	10549-12509 (8%)	204	187-221 (8%)	48%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3982	3038-4927	(24%)	.236	.179-.293 (24%)	174.17	70.49	All species
147	71-223	(52%)	.014	.004-.024 (71%)	6.43	2.60	Black crappie
3190	2297-4083	(28%)	.165	.117-.214 (29%)	139.51	56.46	Bluegill
132	80-183	(39%)	.010	.003-.017 (66%)	5.77	2.34	Channel catfish
			****	NOT RECORDED ****			Golden shiner
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
76	36-117	(53%)	.004	.002-.006 (58%)	3.34	1.35	Largemouth bass
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Warmouth
437	242-632	(45%)	.042	.019-.065 (55%)	19.12	7.74	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
774	605-942	(22%)	.050	.038-.062 (24%)	33.83	0.194	All species
32	15-48	(52%)	.003	.001-.005 (68%)	1.39	0.217	Black crappie
494	347-640	(30%)	.026	.018-.034 (31%)	21.59	0.155	Bluegill
71	39-104	(46%)	.007	.001-.013 (92%)	3.11	0.543	Channel catfish
			****	NOT RECORDED ****			Golden shiner
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
85	47-123	(45%)	.005	.002-.007 (60%)	3.70	1.112	Largemouth bass
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Warmouth
92	43-142	(54%)	.009	.004-.015 (57%)	4.04	0.212	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
1705	1334-2077	(22%)	.110	.084-.136 (24%)	30.19	0.428	All species
70	34-107	(52%)	.007	.002-.012 (68%)	1.24	0.478	Black crappie
1088	766-1410	(30%)	.057	.039-.074 (31%)	19.26	0.341	Bluegill
157	85-229	(46%)	.015	.001-.028 (92%)	2.78	1.198	Channel catfish
			****	NOT RECORDED ****			Golden shiner
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
186	103-270	(45%)	.010	.004-.016 (60%)	3.30	2.452	Largemouth bass
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Warmouth
204	94-314	(54%)	.021	.009-.033 (57%)	3.61	0.467	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
9099	7391-10808	(19%)	.683	.507-.859	(26%)	397.96	161.05	All species
348	192-504	(45%)	.039	.010-.068	(74%)	15.23	6.16	Black crappie
4525	3240-5810	(28%)	.248	.177-.318	(28%)	197.89	80.08	Bluegill
208	121-294	(42%)	.017	.006-.028	(63%)	9.08	3.67	Channel catfish
2	0-8	(257%)	.000	.000-.000	(245%)	0.10	0.04	Golden shiner
6	0-15	(164%)	.001	.000-.003	(262%)	0.26	0.10	Green sunfish
4	0-23	(430%)	.000	.000-.000	(430%)	0.19	0.08	Gizzard shad
2768	1998-3537	(28%)	.256	.099-.414	(61%)	121.04	48.98	Largemouth bass
6	0-14	(131%)	.000	.000-.001	(161%)	0.27	0.11	Rock bass
7	0-26	(257%)	.001	.000-.004	(245%)	0.31	0.13	Warmouth
1225	879-1571	(28%)	.120	.072-.169	(40%)	53.59	21.69	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
1824	1493-2154	(18%)	.139	.104-.174	(25%)	79.76	0.200	All species
53	30-76	(44%)	.006	.002-.010	(65%)	2.31	0.152	Black crappie
588	398-777	(32%)	.031	.021-.041	(32%)	25.70	0.130	Bluegill
84	49-118	(41%)	.008	.002-.014	(78%)	3.67	0.405	Channel catfish
0	0-0	(257%)	.000	.000-.000	(257%)	0.00	0.050	Golden shiner
0	0-1	(181%)	.000	.000-.000	(267%)	0.02	0.071	Green sunfish
0	0-2	(430%)	.000	.000-.000	(430%)	0.02	0.091	Gizzard shad
936	728-1143	(22%)	.077	.048-.106	(38%)	40.92	0.338	Largemouth bass
1	0-3	(143%)	.000	.000-.000	(207%)	0.05	0.190	Rock bass
1	0-5	(245%)	.000	.000-.001	(245%)	0.06	0.202	Warmouth
160	104-217	(35%)	.017	.010-.023	(41%)	7.01	0.131	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
4020	3292-4749	(18%)	.307	.230-.384	(25%)	71.16	0.442	All species
117	65-168	(44%)	.013	.005-.021	(65%)	2.06	0.335	Black crappie
1296	878-1713	(32%)	.069	.047-.091	(32%)	22.93	0.286	Bluegill
185	109-261	(41%)	.018	.004-.032	(78%)	3.27	0.893	Channel catfish
0	0-1	(245%)	.000	.000-.000	(257%)	0.00	0.111	Golden shiner
1	0-2	(181%)	.000	.000-.001	(267%)	0.01	0.157	Green sunfish
1	0-4	(430%)	.000	.000-.000	(430%)	0.01	0.201	Gizzard shad
2063	1604-2521	(22%)	.170	.106-.234	(38%)	36.51	0.745	Largemouth bass
3	0-6	(143%)	.000	.000-.001	(207%)	0.04	0.420	Rock bass
3	0-11	(257%)	.001	.000-.002	(245%)	0.06	0.446	Warmouth
353	229-478	(35%)	.037	.022-.052	(41%)	6.25	0.288	White crappie