

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1992 CREEL SURVEY RESULTS

1992 CARLYLE RESERVOIR
 22228 ACRES
 REGION 4, DISTRICT 21

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1992 through 11/15/1992
 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: 553/738 = 74.9%

NUMBER OF INTERVIEWS: 4536

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	63294	55319-71270 (13%)	3	2-3 (13%)	3%
	HOLIDAY	60719	48651-72786 (20%)	3	2-3 (20%)	7%
	TOTAL	124013	109549-138478(12%)	6	5-6 (12%)	5%
SHORE	WEEKDAY	112814	97339-128290(14%)	5	4-6 (14%)	4%
	HOLIDAY	110410	88591-132228(20%)	5	4-6 (20%)	6%
	TOTAL	223224	196474-249973(12%)	10	9-11 (12%)	5%
BOAT & SHORE	WEEKDAY	176109	158699-193519(10%)	8	7-9 (10%)	3%
	HOLIDAY	171128	146195-196061(15%)	8	7-9 (15%)	6%
	TOTAL	347237	316827-377647(9%)	16	14-17 (9%)	5%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
252480	207443-297517 (18%)	.367	.309-.424 (16%)	28.07	11.36	All species
12	0-36 (210%)	.000	.000-.000 (211%)	0.00	0.00	Blue catfish
537	0-1242 (131%)	.000	.000-.001 (144%)	0.06	0.02	Bigmouth
buffalo						
391	0-786 (101%)	.002	.000-.005 (198%)	0.04	0.02	Black bullhead
2280	1356-3204 (41%)	.005	.002-.007 (55%)	0.25	0.10	Black crappie
25668	17461-33874 (32%)	.040	.022-.057 (45%)	2.85	1.15	Bluegill
		****	NOT RECORDED ****			Brown bullhead
16135	10199-22071 (37%)	.009	.005-.013 (42%)	1.79	0.73	Carp
32705	26913-38498 (18%)	.061	.047-.075 (22%)	3.64	1.47	Channel catfish
263	110-415 (58%)	.000	.000-.001 (94%)	0.03	0.01	Flathead
catfish						
12404	8124-16684 (35%)	.007	.005-.009 (28%)	1.38	0.56	Freshwater drum
		****	NOT RECORDED ****			Golden shiner
3760	1214-6305 (68%)	.002	.001-.004 (62%)	0.42	0.17	Green sunfish
13358	0-38661 (189%)	.019	.000-.048 (159%)	1.48	0.60	Gizzard shad
1749	1033-2465 (41%)	.002	.001-.003 (50%)	0.19	0.08	Largemouth bass
		****	NOT RECORDED ****			Longnose gar
168	0-407 (142%)	.000	.000-.000 (135%)	0.02	0.01	Longear sunfish
517	52-983 (90%)	.000	.000-.001 (107%)	0.06	0.02	Orangespotted
sunfi						
81	0-166 (106%)	.000	.000-.000 (130%)	0.01	0.00	Paddlefish
163	0-447 (175%)	.000	.000-.000 (145%)	0.02	0.01	Pumpkinseed
41	0-127 (211%)	.000	.000-.000 (210%)	0.00	0.00	Rock bass
93	0-234 (151%)	.000	.000-.000 (156%)	0.01	0.00	Redear sunfish
1807	965-2649 (47%)	.002	.001-.004 (79%)	0.20	0.08	Smallmouth
buffalo						
12	0-36 (206%)	.000	.000-.000 (206%)	0.00	0.00	Sauger
147	0-418 (184%)	.000	.000-.000 (123%)	0.02	0.01	Striped bass
hybrid						
138	7-270 (95%)	.000	.000-.000 (136%)	0.02	0.01	Shortnose gar
422	0-933 (121%)	.000	.000-.000 (108%)	0.05	0.02	Smallmouth bass
5	0-17 (216%)	.000	.000-.000 (218%)	0.00	0.00	Striped bass
727	381-1073 (48%)	.000	.000-.001 (50%)	0.08	0.03	Walleye
7	0-21 (214%)	.000	.000-.000 (214%)	0.00	0.00	Warmouth
109105	80973-137237(26%)	.156	.118-.195 (25%)	12.13	4.91	White bass
29027	22467-35586 (23%)	.059	.044-.073 (25%)	3.23	1.31	White crappie
696	322-1069 (54%)	.001	.000-.001 (76%)	0.08	0.03	Yellow bullhead
63	0-139 (120%)	.000	.000-.000 (110%)	0.01	0.00	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
78111	65469-90752 (16%)	.110	.094-.127 (15%)	8.68	0.309	All species
29	0-89 (211%)	.000	.000-.000 (210%)	0.00	2.607	Blue catfish
714	2-1426 (100%)	.001	.000-.003 (183%)	0.08	1.332	Bigmouth
buffalo						
208	22-394 (90%)	.001	.000-.002 (184%)	0.02	0.533	Black bullhead
672	393-950 (41%)	.001	.001-.002 (57%)	0.07	0.295	Black crappie
1919	1261-2578 (34%)	.003	.001-.004 (45%)	0.21	0.075	Bluegill
		****	NOT RECORDED ****			Brown bullhead
8587	5145-12029 (40%)	.005	.003-.007 (45%)	0.95	0.532	Carp
17031	13780-20282 (19%)	.035	.026-.044 (26%)	1.89	0.521	Channel catfish
334	63-605 (81%)	.000	.000-.001 (75%)	0.04	1.275	Flathead
catfish						
4369	2575-6164 (41%)	.003	.001-.004 (51%)	0.49	0.352	Freshwater drum
		****	NOT RECORDED ****			Golden shiner
698	0-1629 (134%)	.000	.000-.000 (78%)	0.08	0.186	Green sunfish
266	0-760 (185%)	.000	.000-.001 (157%)	0.03	0.020	Gizzard shad
1559	846-2272 (46%)	.002	.001-.003 (44%)	0.17	0.892	Largemouth bass
		****	NOT RECORDED ****			Longnose gar
40	0-109 (169%)	.000	.000-.000 (139%)	0.00	0.242	Longear sunfish
58	0-123 (111%)	.000	.000-.000 (99%)	0.01	0.113	Orangespotted
sunfi						
935	0-2396 (156%)	.000	.000-.001 (134%)	0.10	11.545	Paddlefish
18	0-42 (135%)	.000	.000-.000 (163%)	0.00	0.111	Pumpkinseed
5	0-15 (210%)	.000	.000-.000 (210%)	0.00	0.119	Rock bass
18	0-43 (146%)	.000	.000-.000 (145%)	0.00	0.189	Redear sunfish
1760	915-2606 (48%)	.002	.001-.004 (74%)	0.20	0.974	Smallmouth
buffalo						
289	0-885 (206%)	.000	.000-.000 (206%)	0.03	26.289	Sauger
70	0-172 (147%)	.000	.000-.000 (209%)	0.01	0.474	Striped bass
hybrid						
120	2-239 (98%)	.000	.000-.000 (128%)	0.01	0.872	Shortnose gar
174	0-351 (102%)	.000	.000-.000 (91%)	0.02	0.412	Smallmouth bass
2	0-6 (216%)	.000	.000-.000 (218%)	0.00	0.353	Striped bass
642	229-1054 (64%)	.000	.000-.001 (69%)	0.07	0.883	Walleye
1	0-4 (216%)	.000	.000-.000 (214%)	0.00	0.185	Warmouth
30496	21207-39786 (30%)	.040	.030-.051 (26%)	3.39	0.280	White bass
6977	5397-8557 (23%)	.015	.011-.019 (26%)	0.78	0.240	White crappie
112	57-167 (49%)	.000	.000-.000 (70%)	0.01	0.162	Yellow bullhead
5	0-15 (176%)	.000	.000-.000 (127%)	0.00	0.086	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
172205	144335-200075 (16%)	.244	.208-.279 (15%)	7.75	0.682	All species
63	0-196 (210%)	.000	.000-.000 (210%)	0.00	5.747	Blue catfish
1574	5-3144 (100%)	.003	.000-.008 (183%)	0.07	2.937	Bigmouth
buffalo						
459	48-869 (90%)	.001	.000-.004 (184%)	0.02	1.176	Black bullhead
1481	867-2095 (41%)	.003	.001-.005 (57%)	0.07	0.650	Black crappie
4231	2780-5683 (34%)	.006	.003-.009 (45%)	0.19	0.165	Bluegill
		****	NOT RECORDED ****			Brown bullhead
18932	11343-26520 (40%)	.011	.006-.016 (45%)	0.85	1.173	Carp
37547	30380-44714 (19%)	.076	.056-.097 (26%)	1.69	1.148	Channel catfish
736	139-1333 (81%)	.001	.000-.001 (75%)	0.03	2.810	Flathead
catfish						
9633	5677-13588 (41%)	.007	.003-.010 (51%)	0.43	0.777	Freshwater drum
		****	NOT RECORDED ****			Golden shiner
1538	0-3592 (134%)	.001	.000-.001 (78%)	0.07	0.409	Green sunfish
587	0-1676 (185%)	.001	.000-.002 (157%)	0.03	0.044	Gizzard shad
3437	1866-5008 (46%)	.004	.002-.006 (44%)	0.15	1.966	Largemouth bass
		****	NOT RECORDED ****			Longnose gar
89	0-240 (169%)	.000	.000-.000 (139%)	0.00	0.534	Longear sunfish
129	0-271 (111%)	.000	.000-.000 (99%)	0.01	0.249	Orangespotted
sunfi						
2062	0-5282 (156%)	.001	.000-.002 (134%)	0.09	25.453	Paddlefish
40	0-94 (135%)	.000	.000-.000 (163%)	0.00	0.245	Pumpkinseed
11	0-33 (210%)	.000	.000-.000 (211%)	0.00	0.263	Rock bass
39	0-96 (146%)	.000	.000-.000 (145%)	0.00	0.418	Redear sunfish
3881	2017-5745 (48%)	.005	.001-.009 (74%)	0.17	2.148	Smallmouth
buffalo						
638	0-1948 (206%)	.000	.000-.001 (206%)	0.03	57.957	Sauger
154	0-379 (147%)	.000	.000-.001 (209%)	0.01	1.046	Striped bass
hybrid						
265	4-527 (98%)	.000	.000-.000 (128%)	0.01	1.923	Shortnose gar
384	0-774 (102%)	.000	.000-.000 (91%)	0.02	0.909	Smallmouth bass
4	0-12 (216%)	.000	.000-.000 (216%)	0.00	0.778	Striped bass
1415	505-2325 (64%)	.001	.000-.001 (69%)	0.06	1.946	Walleye
2	0-8 (216%)	.000	.000-.000 (214%)	0.00	0.407	Warmouth
67233	46753-87713 (30%)	.089	.066-.112 (26%)	3.02	0.616	White bass
15382	11899-18866 (23%)	.034	.025-.043 (26%)	0.69	0.530	White crappie
248	127-369 (49%)	.000	.000-.001 (70%)	0.01	0.357	Yellow bullhead
12	0-33 (176%)	.000	.000-.000 (127%)	0.00	0.189	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
439997	377567-502427 (14%)	.678	.590-.766 (13%)	48.91	19.79	All species
12	0-36 (210%)	.000	.000-.000 (211%)	0.00	0.00	Blue catfish
660	0-1396 (111%)	.001	.000-.002 (154%)	0.07	0.03	Bigmouth
buffalo						
477	72-883 (85%)	.002	.000-.005 (192%)	0.05	0.02	Black bullhead
5229	2648-7811 (49%)	.013	.001-.026 (92%)	0.58	0.24	Black crappie
38862	28085-49639 (28%)	.064	.041-.088 (37%)	4.32	1.75	Bluegill
111	0-366 (231%)	.000	.000-.000 (226%)	0.01	0.00	Brown bullhead
18466	12123-24808 (34%)	.012	.008-.016 (37%)	2.05	0.83	Carp
43501	35985-51018 (17%)	.072	.056-.087 (21%)	4.84	1.96	Channel catfish
384	194-574 (50%)	.000	.000-.001 (79%)	0.04	0.02	Flathead
catfish						
23789	17644-29935 (26%)	.019	.014-.025 (26%)	2.64	1.07	Freshwater drum
17	0-53 (211%)	.000	.000-.000 (211%)	0.00	0.00	Golden shiner
3835	1288-6383 (66%)	.002	.001-.004 (60%)	0.43	0.17	Green sunfish
31490	4477-58503 (86%)	.030	.000-.061 (101%)	3.50	1.42	Gizzard shad
11211	8135-14288 (27%)	.020	.008-.031 (59%)	1.25	0.50	Largemouth bass
457	0-925 (103%)	.000	.000-.001 (116%)	0.05	0.02	Longnose gar
216	0-458 (112%)	.000	.000-.000 (108%)	0.02	0.01	Longear sunfish
763	93-1432 (88%)	.001	.000-.001 (100%)	0.08	0.03	Orangespotted
sunfi						
81	0-166 (106%)	.000	.000-.000 (130%)	0.01	0.00	Paddlefish
190	0-479 (152%)	.000	.000-.000 (126%)	0.02	0.01	Pumpkinseed
104	0-211 (104%)	.000	.000-.001 (114%)	0.01	0.00	Rock bass
93	0-234 (151%)	.000	.000-.000 (156%)	0.01	0.00	Redear sunfish
2000	1099-2901 (45%)	.003	.001-.005 (73%)	0.22	0.09	Smallmouth
buffalo						
35	0-108 (206%)	.000	.000-.000 (206%)	0.00	0.00	Sauger
173	0-461 (166%)	.000	.000-.000 (106%)	0.02	0.01	Striped bass
hybrid						
2406	424-4389 (82%)	.001	.000-.002 (83%)	0.27	0.11	Shortnose gar
453	0-966 (113%)	.000	.000-.001 (107%)	0.05	0.02	Smallmouth bass
164	0-511 (211%)	.000	.000-.000 (197%)	0.02	0.01	Striped bass
6863	3703-10024 (46%)	.004	.002-.006 (41%)	0.76	0.31	Walleye
7	0-21 (214%)	.000	.000-.000 (214%)	0.00	0.00	Warmouth
164060	126795-201325(23%)	.260	.198-.322 (24%)	18.24	7.38	White bass
81441	65111-97771 (20%)	.169	.132-.206 (22%)	9.05	3.66	White crappie
1766	976-2556 (45%)	.002	.001-.002 (47%)	0.20	0.08	Yellow bullhead
602	201-1003 (67%)	.001	.000-.002 (130%)	0.07	0.03	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
104759	90023-119495 (14%)	.154	.133-.174 (13%)	11.65	0.238	All species
29	0-89 (211%)	.000	.000-.000 (210%)	0.00	2.607	Blue catfish
1015	0-2180 (115%)	.003	.000-.008 (193%)	0.11	1.537	Bigmouth
buffalo						
239	47-432 (80%)	.001	.000-.002 (176%)	0.03	0.502	Black bullhead
1255	613-1898 (51%)	.003	.000-.006 (97%)	0.14	0.240	Black crappie
2475	1701-3249 (31%)	.004	.002-.005 (43%)	0.28	0.064	Bluegill
22	0-73 (231%)	.000	.000-.000 (226%)	0.00	0.201	Brown bullhead
9488	5919-13058 (38%)	.006	.003-.008 (42%)	1.05	0.514	Carp
18075	14745-21405 (18%)	.036	.027-.045 (26%)	2.01	0.416	Channel catfish
431	132-730 (69%)	.000	.000-.001 (67%)	0.05	1.122	Flathead
catfish						
6141	4144-8139 (33%)	.005	.003-.006 (36%)	0.68	0.258	Freshwater drum
3	0-10 (210%)	.000	.000-.000 (211%)	0.00	0.184	Golden shiner
707	0-1639 (132%)	.000	.000-.000 (77%)	0.08	0.184	Green sunfish
1264	455-2074 (64%)	.001	.000-.002 (67%)	0.14	0.040	Gizzard shad
6422	4482-8361 (30%)	.010	.005-.014 (48%)	0.71	0.573	Largemouth bass
224	0-490 (119%)	.000	.000-.000 (140%)	0.02	0.491	Longnose gar
42	0-111 (163%)	.000	.000-.000 (114%)	0.00	0.196	Longear sunfish
65	0-130 (102%)	.000	.000-.000 (89%)	0.01	0.085	Orangespotted
sunfi						
935	0-2396 (156%)	.000	.000-.001 (134%)	0.10	11.545	Paddlefish
23	0-50 (114%)	.000	.000-.000 (141%)	0.00	0.123	Pumpkinseed
9	0-20 (125%)	.000	.000-.000 (109%)	0.00	0.085	Rock bass
18	0-43 (146%)	.000	.000-.000 (145%)	0.00	0.189	Redear sunfish
1900	1027-2774 (46%)	.002	.001-.004 (70%)	0.21	0.950	Smallmouth
buffalo						
551	0-1687 (206%)	.000	.000-.001 (206%)	0.06	15.755	Sauger
139	0-304 (119%)	.000	.000-.000 (148%)	0.02	0.803	Striped bass
hybrid						
1303	302-2305 (77%)	.001	.000-.001 (69%)	0.14	0.542	Shortnose gar
188	9-366 (95%)	.000	.000-.000 (79%)	0.02	0.415	Smallmouth bass
3	0-7 (144%)	.000	.000-.000 (187%)	0.00	0.018	Striped bass
1639	900-2377 (45%)	.001	.001-.001 (40%)	0.18	0.239	Walleye
1	0-4 (216%)	.000	.000-.000 (214%)	0.00	0.185	Warmouth
35758	25802-45713 (28%)	.051	.038-.063 (25%)	3.98	0.218	White bass
14094	11051-17137 (22%)	.030	.023-.037 (23%)	1.57	0.173	White crappie
263	123-403 (53%)	.000	.000-.000 (53%)	0.03	0.149	Yellow bullhead
37	14-60 (62%)	.000	.000-.000 (93%)	0.00	0.062	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
230953	198466-263441 (14%)	.339	.294-.384 (13%)	10.39	0.525	All species
63	0-196 (210%)	.000	.000-.000 (210%)	0.00	5.747	Blue catfish
2237	0-4806 (115%)	.006	.000-.017 (193%)	0.10	3.389	Bigmouth buffalo
528	103-952 (80%)	.001	.000-.004 (176%)	0.02	1.107	Black bullhead
2768	1351-4184 (51%)	.007	.000-.014 (97%)	0.12	0.529	Black crappie
5456	3749-7163 (31%)	.008	.005-.011 (43%)	0.25	0.140	Bluegill
49	0-161 (231%)	.000	.000-.000 (226%)	0.00	0.443	Brown bullhead
20919	13049-28788 (38%)	.013	.008-.019 (42%)	0.94	1.133	Carp
39849	32507-47190 (18%)	.079	.059-.099 (26%)	1.79	0.916	Channel catfish
950	291-1609 (69%)	.001	.000-.001 (67%)	0.04	2.473	Flathead
13539	9135-17943 (33%)	.010	.007-.014 (36%)	0.61	0.569	Freshwater drum
7	0-21 (211%)	.000	.000-.000 (211%)	0.00	0.406	Golden shiner
1558	0-3613 (132%)	.001	.000-.001 (77%)	0.07	0.406	Green sunfish
2788	1002-4573 (64%)	.002	.001-.004 (67%)	0.13	0.089	Gizzard shad
14158	9882-18434 (30%)	.021	.011-.031 (48%)	0.64	1.263	Largemouth bass
494	0-1080 (119%)	.000	.000-.001 (140%)	0.02	1.083	Longnose gar
93	0-245 (163%)	.000	.000-.000 (114%)	0.00	0.432	Longear sunfish
142	0-287 (102%)	.000	.000-.000 (89%)	0.01	0.187	Orangespotted sunfish
2062	0-5282 (156%)	.001	.000-.002 (134%)	0.09	25.453	Paddlefish
51	0-109 (114%)	.000	.000-.000 (141%)	0.00	0.271	Pumpkinseed
19	0-43 (125%)	.000	.000-.000 (109%)	0.00	0.187	Rock bass
39	0-96 (146%)	.000	.000-.000 (145%)	0.00	0.418	Redear sunfish
4189	2264-6115 (46%)	.005	.002-.009 (70%)	0.19	2.095	Smallmouth buffalo
1216	0-3719 (206%)	.000	.000-.001 (206%)	0.05	34.733	Sauger
306	0-670 (119%)	.000	.000-.001 (148%)	0.01	1.769	Striped bass
2873	666-5081 (77%)	.001	.000-.002 (69%)	0.13	1.194	Shortnose gar
414	20-808 (95%)	.000	.000-.000 (79%)	0.02	0.916	Smallmouth bass
7	0-16 (144%)	.000	.000-.000 (187%)	0.00	0.040	Striped bass
3613	1985-5240 (45%)	.002	.001-.003 (40%)	0.16	0.526	Walleye
2	0-8 (216%)	.000	.000-.000 (214%)	0.00	0.407	Warmouth
78833	56884-100781 (28%)	.112	.084-.140 (25%)	3.55	0.481	White bass
31072	24362-37781 (22%)	.066	.050-.081 (23%)	1.40	0.382	White crappie
580	270-890 (53%)	.001	.000-.001 (53%)	0.03	0.328	Yellow bullhead
82	32-133 (62%)	.000	.000-.000 (93%)	0.00	0.137	Yellow bass