

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1998 CREEL SURVEY RESULTS

1998 LAKE MENDOTA
 18 ACRES
 REGION 1, DISTRICT 2

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 04/01/1998 through 10/31/1998
 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: 227/642 = 35.4%

NUMBER OF INTERVIEWS: 890

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	91	0-229 (151%)	5	0-13 (151%)	5%
	HOLIDAY	96	0-214 (122%)	5	0-12 (122%)	20%
	TOTAL	188	22-353 (88%)	10	1-20 (88%)	13%
SHORE	WEEKDAY	6289	5412-7166 (14%)	349	301-398 (14%)	14%
	HOLIDAY	3863	3303-4424 (15%)	215	184-246 (15%)	31%
	TOTAL	10152	9111-11193 (10%)	564	506-622 (10%)	20%
BOAT & SHORE	WEEKDAY	6380	5495-7265 (14%)	354	305-404 (14%)	13%
	HOLIDAY	3960	3391-4529 (14%)	220	188-252 (14%)	30%
	TOTAL	10340	9288-11392 (10%)	574	516-633 (10%)	20%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
2429	1919-2939	(21%)	.118	.085-.152 (29%)	333.47	134.95	All species
286	92-479	(68%)	.024	.000-.055 (135%)	39.20	15.87	Black crappie
1294	887-1700	(31%)	.051	.033-.070 (36%)	177.61	71.88	Bluegill
527	371-683	(30%)	.031	.019-.043 (39%)	72.30	29.26	Channel catfish
6	0-18	(197%)	.000	.000-.001 (174%)	0.84	0.34	Golden shiner
129	25-233	(81%)	.004	.001-.007 (79%)	17.74	7.18	Green sunfish
148	76-220	(49%)	.006	.002-.009 (62%)	20.30	8.22	Largemouth bass
			****	NOT RECORDED ****			Smallmouth bass
8	0-30	(278%)	.001	.000-.005 (278%)	1.11	0.45	Striped bass
6	0-24	(278%)	.000	.000-.001 (318%)	0.87	0.35	White bass
1	0-3	(208%)	.000	.000-.000 (208%)	0.14	0.06	White crappie
23	0-59	(161%)	.001	.000-.003 (154%)	3.09	1.25	Yellow bullhead
2	0-7	(226%)	.000	.000-.000 (226%)	0.27	0.11	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
580	418-742	(28%)	.036	.020-.051 (43%)	79.65	0.239	All species
37	15-59	(58%)	.004	.000-.011 (176%)	5.10	0.130	Black crappie
127	81-173	(36%)	.005	.003-.006 (39%)	17.48	0.099	Bluegill
351	202-500	(43%)	.024	.009-.040 (63%)	48.17	0.667	Channel catfish
1	0-2	(176%)	.000	.000-.000 (184%)	0.10	0.118	Golden shiner
9	0-21	(119%)	.000	.000-.000 (77%)	1.29	0.073	Green sunfish
51	16-85	(68%)	.002	.000-.004 (83%)	6.94	0.344	Largemouth bass
			****	NOT RECORDED ****			Smallmouth bass
2	0-6	(278%)	.000	.000-.001 (278%)	0.21	0.191	Striped bass
1	0-3	(318%)	.000	.000-.000 (278%)	0.09	0.104	White bass
0	0-0	(208%)	.000	.000-.000 (208%)	0.00	0.001	White crappie
2	0-4	(153%)	.000	.000-.000 (178%)	0.24	0.080	Yellow bullhead
0	0-1	(223%)	.000	.000-.000 (223%)	0.04	0.150	Yellow bass

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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
1279	922-1636	(28%)	.079	.044-.113 (43%)	71.06	0.527	All species
82	34-130	(58%)	.009	.000-.024 (176%)	4.55	0.287	Black crappie
281	179-382	(36%)	.010	.006-.014 (39%)	15.60	0.217	Bluegill
774	444-1103	(43%)	.054	.020-.088 (63%)	42.97	1.471	Channel catfish
2	0-4	(176%)	.000	.000-.000 (184%)	0.09	0.261	Golden shiner
21	0-45	(119%)	.000	.000-.001 (77%)	1.15	0.160	Green sunfish
111	36-187	(68%)	.004	.001-.008 (83%)	6.19	0.758	Largemouth bass
			****	NOT RECORDED ****			Smallmouth bass
3	0-12	(257%)	.001	.000-.002 (278%)	0.19	0.422	Striped bass
1	0-6	(318%)	.000	.000-.000 (318%)	0.08	0.229	White bass
0	0-0	(209%)	.000	.000-.000 (208%)	0.00	0.003	White crappie
4	0-10	(153%)	.000	.000-.001 (178%)	0.21	0.175	Yellow bullhead
1	0-2	(226%)	.000	.000-.000 (223%)	0.04	0.332	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
12295	10122-14468	(18%)	.563	.445-.682 (21%)	1687.85	683.06	All species
1404	773-2035	(45%)	.096	.022-.170 (77%)	192.76	78.01	Black crappie
4549	3600-5498	(21%)	.170	.127-.213 (25%)	624.53	252.74	Bluegill
846	636-1056	(25%)	.054	.035-.074 (36%)	116.16	47.01	Channel catfish
33	0-68	(104%)	.001	.000-.002 (134%)	4.54	1.84	Golden shiner
818	469-1168	(43%)	.045	.007-.082 (85%)	112.33	45.46	Green sunfish
4439	3239-5639	(27%)	.188	.111-.265 (41%)	609.37	246.61	Largemouth bass
24	0-63	(159%)	.001	.000-.002 (184%)	3.32	1.34	Smallmouth bass
8	0-30	(278%)	.001	.000-.005 (278%)	1.11	0.45	Striped bass
38	0-86	(127%)	.002	.000-.006 (147%)	5.20	2.10	White bass
28	0-74	(165%)	.001	.000-.002 (149%)	3.83	1.55	White crappie
32	0-71	(121%)	.001	.000-.003 (127%)	4.38	1.77	Yellow bullhead
75	0-181	(141%)	.003	.000-.010 (265%)	10.33	4.18	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
1036	826-1246	(20%)	.061	.042-.079 (30%)	142.19	0.084	All species
75	43-108	(43%)	.007	.000-.013 (95%)	10.35	0.054	Black crappie
223	169-277	(24%)	.009	.005-.013 (46%)	30.59	0.049	Bluegill
397	243-551	(39%)	.028	.011-.044 (59%)	54.47	0.469	Channel catfish
5	0-11	(131%)	.000	.000-.000 (164%)	0.65	0.144	Golden shiner
22	8-36	(63%)	.001	.000-.002 (67%)	3.02	0.027	Green sunfish
300	186-414	(38%)	.016	.008-.023 (48%)	41.19	0.068	Largemouth bass
1	0-2	(194%)	.000	.000-.000 (209%)	0.09	0.028	Smallmouth bass
2	0-6	(278%)	.000	.000-.001 (278%)	0.21	0.191	Striped bass
3	0-6	(120%)	.000	.000-.000 (147%)	0.37	0.072	White bass
1	0-2	(206%)	.000	.000-.000 (198%)	0.09	0.025	White crappie
2	0-5	(131%)	.000	.000-.000 (165%)	0.28	0.066	Yellow bullhead
6	0-27	(320%)	.000	.000-.001 (345%)	0.87	0.084	Yellow bass

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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
2284	1821-2747	(20%)	.134	.093-.175 (30%)	126.87	0.186	All species
166	94-239	(43%)	.015	.001-.028 (95%)	9.24	0.118	Black crappie
491	372-611	(24%)	.019	.010-.028 (46%)	27.30	0.108	Bluegill
875	536-1214	(39%)	.061	.025-.097 (59%)	48.60	1.034	Channel catfish
11	0-24	(131%)	.000	.000-.001 (164%)	0.58	0.318	Golden shiner
49	18-79	(63%)	.002	.001-.004 (67%)	2.70	0.059	Green sunfish
661	411-912	(38%)	.035	.018-.052 (48%)	36.75	0.149	Largemouth bass
1	0-4	(194%)	.000	.000-.000 (209%)	0.08	0.061	Smallmouth bass
3	0-12	(257%)	.001	.000-.002 (278%)	0.19	0.422	Striped bass
6	0-13	(120%)	.000	.000-.001 (147%)	0.33	0.158	White bass
1	0-5	(206%)	.000	.000-.000 (198%)	0.08	0.055	White crappie
5	0-10	(131%)	.000	.000-.001 (165%)	0.25	0.146	Yellow bullhead
14	0-58	(320%)	.001	.000-.003 (345%)	0.77	0.186	Yellow bass

