KANSAS BLACK BASS TOURNAMENT MONITORING

2007 ANNUAL REPORT

Kansas Department of Wildlife and Parks Mike Hayden Secretary

> Prepared by Jim Stephen Fisheries Research P.O. Box 1525 Emporia, Kansas 66801

Joe Kramer, Director Fisheries and Wildlife Division Doug Nygren, Chief Fisheries Section





January, 2008 A contribution of Dingell-Johnson Funds Federal Aid Project No. F-30-R13 & 14 Report for Period January 1, 2007 to December 31, 2007 This program receives Federal financial assistance from the U.S. Fish and Wildlife Service. Under Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, the Age Discrimination Act of 1975, and Title IX of the Education Amendments of 1972, the U.S. Department of the Interior and its bureaus prohibit discrimination on the bases of race, color, national origin, age, disability or sex (in educational programs). If you believe that you have been discriminated against tin any program, activity or facility, or if your desire further information please write to:

The U.S. Fish and Wildlife Service Office for Diversity and Civil Rights Programs-External Programs 4040 North Fairfax Drive, Suite 130 Arlington, VA 22203

INTRODUCTION

This report summarizes catches of black bass (*Micropterus* spp.) species from angling tournaments conducted in 2007 on Kansas waters by those bass clubs that cooperated in our voluntary tournament-monitoring program or catch data compiled from on-site event requirements by other authorities. Tournament catches of black bass have been recorded in Kansas since 1977 and have proven valuable for indexing largemouth bass (*Micropterus salmoides*) relative abundance and length frequencies in reservoirs. These catch statistics supplement the Department of Wildlife and Park's sampling data and both are used to evaluate management activities. However, caution is expressed on the reliability of estimates of length frequency, structural indices or catch rates based on catch data at individual reservoirs or lakes where the number of events reported were few.

RESULTS AND DISCUSSION

Replication of events at individual impoundments is key to the reliability of any reported catch statistic. Therefore, recognize the catch statistics provided in this report may be skewed based on minimal efforts reported for particular impoundments.

In 2007, 9 Kansas bass clubs reported the catches of black bass from 37 tournaments (Table 1). Of the data used in this report, thirty-five of the reported tournaments were held on federal reservoirs; the other 2 were held at smaller water bodies (Tables 2 and 5).

Reservoir Statistics

The number of tournament events reported in 2007 was similar (-10%) than the previous year (Table 2). The reported numbers of angler days and angler hours fished in black bass tournaments in 2007 were 61 % lower than the 12-year means but slightly higher than in 2006. The numbers and total weight of bass \geq 12 inches caught were 29 and 24 % lower than in 2006,

and were 59 and 60 % lower than the 12-year means. The 2007 hourly catch rate of bass \geq 12 in was 42 % lower than the previous year and 12 % lower than the 12-year mean.

The 2007 catch of 51 bass \geq 20 in was similar (-4%) to the 2006 catch, but 67 % lower than the 12-year mean. The mean number of hours (125) necessary in 2007 to catch a bass \geq 20 in was similar (+7%) to the previous year, but 16 % higher than the 12-year mean. The largest bass reported in tournament fishing in 2007 was 6.9 pounds.

An accepted standard of quality largemouth bass fishing is a catch rate of 0.2 bass \geq 12 in per hour. In 2007, eight of eleven reservoirs had catch rates that exceeded the standard, but only Big Hill and Cedar Bluff had multiple events reported (Table 3). The highest catch of bass \geq 12 in per hour with a minimum of five events occurred at Big Hill (0.38).

Heaviest mean weight for bass \geq 12 in taken from reservoirs with a minimum of five events was 2.1 pounds (Cedar Bluff) (Table 3). Big Hill had the highest reported catch (25) of bass \geq 20 inches. Big Hill required 96 angler hours per fish \geq 20 in.

A cursory estimate of the current condition of a given reservoir's largemouth bass fishery can be made by comparing the number of bass caught per hour in the present year to the historic mean catch rate for that reservoir (Table 4). The percent deviation indicates whether catches are above or below (+ or -) for each impoundment and describes the magnitude. Above average percentages may suggest the presence of strong year classes. Those deviations plus or minus 10% of the mean could indicate steady-state populations; reservoirs that produce catch rates of - 25%, or lower, than their historical average may signal a decline in reproduction or recruitment.

State, County and City Lake Statistics

The catch data reported from tournaments held at small lakes are seldom adequate to make reliable estimates of length frequency, structural indices or catch rates because of the low number of events conducted per lake. Two bass tournaments were reported in 2007 and catch data from this impoundment are summarized in Table 5.

Table 1. Bass clubs providing black bass catch data from tournament events in Kansas, 2007.

Bass Clubs

American Bass Anglers Bass Anglers of Central Kansas Big Hill Bassmasters Cherryvale Bassmasters Fishin' with Friends Hays Bass Anglers Kansas Bass Federation Mid-America Bass Masters Shawnee Mission Bass Masters

Statistic	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	12-year mean	2007 % deviation from mean	2007 % deviation from 2000
Tournaments reported	148	170	160	174	149	88	65	53	32	38	39	35	96	-64	-10
Total Angler days	3,139	3,240	3,488	3,442	3,238	2,129	1,609	1,557	572	782	776	797	2,064	-61	3
Total Angler hours	25,115	25,920	27,902	27,532	25,902	17,029	12,874	12,456	4,572	6,252	6,206	6,377	16,511	-61	3
Bass over 12 inches	5,467	6,684	7,291	9,106	9,141	7,832	5,202	4,667	1,649	2,240	3,104	2,192	5,381	-59	-29
Pounds of bass over 12 inches	11,350	14,091	15,768	19,111	18,976	15,545	10,247	9,308	3,340	4,509	5,788	4,379	11,034	-60	-24
Mean pounds per bass over 12 inches	2.0	2.1	2.2	2.1	2.2	2.1	2.3	2.1	2.1	2.0	1.8	1.9	2.1	-9	4
Bass over 12 inches per hour	0.28	0.31	0.28	0.31	0.34	0.36	0.31	0.26	0.26	0.34	0.48	0.28	0.32	-12	-42
Pounds of bass > 12 inches per hour	0.45	0.54	0.57	0.69	0.73	0.91	1.25	1.33	0.73	0.72	0.93	0.69	0.80	-13	-26
Bass over 20 inches	159	222	210	279	292	170	137	142	61	65	53	51	153	-67	-4
Hours per bass over 20 inches	158	117	133	99	89	100	94	88	75	96	117	125	108	16	7
Largest bass (lbs)	7.4	8.1	7.7	8.2	8.8	8.8	7.3	7.7	8.2	6.3	6.9	6.9	8	-10	0

 Table 2.
 Annual tournament statistics on black bass in Kansas reservoirs, as reported by Kansas bass clubs, 1996-2007.

Table 3. Summary of length frequencies, stock indices, and catches of black bass in tournaments on Kansas Reservoirs in 2007.

Total Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch		Percent of Catch										
9 3 1 0 3 4 10 4 4 0 6 10 11 4 3 0 13 6 12 14 7 18 23 18 13 17 9 27 13 15 14 17 20 9 6 14 15 12 22 9 10 10 16 11 18 8 3 7 17 7 4 9 0 0 19 2 2 0 0 1 20 2 0 0 0 0 0 21 0 1 9 0 0 0 0 0 23 0 0 0 0 0 0 0 0 0 240 0 0 0 0 0 0 0 0 25 0 0 0 0 0 <	Hillsdale LaCy	aCygne Me	lelvern	Perry	Pomona	Wilson	Mean	Total				
10 4 4 0 6 10 11 4 3 0 13 6 12 14 7 18 23 18 13 17 9 27 13 15 14 17 20 9 6 14 15 12 22 9 10 10 16 11 18 18 3 7 17 7 4 9 1 8 18 5 3 0 0 0 19 2 2 0 0 1 20 22 0 0 0 0 0 0 0 21 0 1 9 0 0 0 0 0 22 0 0 0 0 0 0 0 0 0 23 0 0 0 0 0 0 0 0 0 1 1 1 1 <t< td=""><td>4</td><td>1</td><td>1</td><td>0</td><td>0</td><td>6</td><td>4</td><td></td></t<>	4	1	1	0	0	6	4					
11 4 3 0 13 6 12 14 7 18 23 18 13 17 9 27 13 15 14 17 20 9 6 14 15 12 22 9 10 10 16 11 18 18 3 7 17 7 4 9 1 8 18 5 3 0 0 0 20 2 2 0 0 0 21 0 1 9 0 0 23 0 0 0 0 0 24 0 0 0 0 0 25 0 0 0 0 0 2408 245 11 69 99 701 1 1 1 1 77 288 272 Number of Tournaments 19 7 1 1	0	0	2	0	0	6	2					
12 14 7 18 23 18 13 17 9 27 13 15 14 17 20 9 6 14 15 12 22 9 10 10 16 11 18 18 3 7 17 7 4 9 1 8 18 5 3 0 0 0 21 0 1 9 0 0 22 0 0 0 0 0 23 0 0 0 0 0 24 0 0 0 0 0 0 25 0 0 0 0 0 0 Cotal Bass (all sizes) 1087 682 11 69 99 Fotal Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7	1	1	5	0	0	15	4					
13 17 9 27 13 15 14 17 20 9 6 14 15 12 22 9 10 10 16 11 18 18 3 7 17 7 4 9 1 8 18 5 3 0 0 0 19 2 2 0 0 1 20 2 0 0 0 0 0 21 0 1 9 0 0 0 23 0 0 0 0 0 0 24 0 0 0 0 0 0 25 0 0 0 0 0 0 26 10 0 0 0 0 0 272 0 0 0 0 0 0 283 215 169 9 9 1 1 Percent of Cournaments	8	5	8	0	0	10	5					
14 17 20 9 6 14 15 12 22 9 10 10 16 11 18 18 3 7 17 7 4 9 1 8 18 5 3 0 0 0 19 2 2 0 0 0 20 2 0 0 0 0 21 0 1 9 0 0 23 0 0 0 0 0 24 0 0 0 0 0 25 0 0 0 0 0 Catal Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch 2 3 9 0 0 Bass 8-12 inches 14 12 0 43 <t< td=""><td>18</td><td>24</td><td>17</td><td>17</td><td>13</td><td>19</td><td>17</td><td></td></t<>	18	24	17	17	13	19	17					
15 12 22 9 10 10 16 11 18 18 3 7 17 7 4 9 1 8 18 5 3 0 0 0 19 2 2 0 0 1 20 2 2 0 0 0 21 0 1 9 0 0 22 0 0 0 0 0 0 23 0 0 0 0 0 0 24 0 0 0 0 0 0 0 25 0 0 0 0 0 0 0 70tal Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch 2 3 9 0 0 0	12	17	25	13	13	13	16					
16 11 18 18 3 7 17 7 4 9 1 8 18 5 3 0 0 0 19 2 2 0 0 1 20 2 2 0 0 0 21 0 1 9 0 0 23 0 0 0 0 0 24 0 0 0 0 0 25 0 0 0 0 0 7 1 1 1 1 1 Percent of Tournaments 19 7 1 1 1 Percent of Catch 14 12 0 43 26 Bass 12 inches 14 12 0 43 26 Bass 15-20 inches 37 49 36 14 26 Bass 12-15 inches/hour 0.08 0.03 0.00 0.10 0.17 Bass 15-20 inches/hour 0.15 0.19	13	19	33	29	20	10	17					
17 7 4 9 1 8 18 5 3 0 0 0 19 2 2 0 0 1 20 2 2 0 0 0 21 0 1 9 0 0 23 0 0 0 0 0 0 24 0 0 0 0 0 0 25 0 0 0 0 0 0 Cotal Bass (all sizes) 1087 682 11 69 99 Cotal Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch 3ass 5-12 inches 47 37 55 42 47 3ass 12-15 inches/hour 0.08 0.03 0.00 0.10 0.10 3ass 12-20 inches 2 3 9 <t< td=""><td>9</td><td>5</td><td>4</td><td>13</td><td>13</td><td>17</td><td>11</td><td></td></t<>	9	5	4	13	13	17	11					
18 5 3 0 0 0 19 2 2 0 0 1 20 2 2 0 0 0 21 0 1 9 0 0 22 0 0 0 0 0 23 0 0 0 0 0 24 0 0 0 0 0 25 0 0 0 0 0 Cotal Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch	14	8	3	8	20	4	10					
19 2 2 0 0 1 20 2 2 0 0 0 0 21 0 1 9 0 0 0 22 0 0 0 0 0 0 0 23 0 0 0 0 0 0 0 24 0 0 0 0 0 0 0 25 0 0 0 0 0 0 0 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch 2 3 9 0 0 Bass 12-15 inches 14 12 0 43 26 Bass 12-25 inches 2 3 9 0 0 Catch By Size Category * 2 3 9 0 0 Bass 12-15 inches/hour 0.08 0.03 0.00 0.10 0.10	9	1	2	4	13	0	5					
202200021019002200000230000024000002500000Cotal Bass (all sizes)1087682116999Cotal Anglers2882451136Angler Hours2408213277288272Number of Tournaments197111Percent of Catch141204326Bass 12-15 inches4737554247Bass 15-20 inches3749361426Bass 15-20 inches23900Catch By Size Category *20.140.080.000.10Bass 12-15 inches/hour0.020.140.040.17Bass 15-20 inches23900Catch By Size Category *0.150.190.050.030.10Bass 15-20 inches/hour0.010.010.010.000.00Bass 15-20 inches/hour0.380.330.140.140.27Wt. of bass > 12 inches / hour0.380.330.140.140.27Wean wt. of bass > 12 inches2.022.142.131.51.7Wumber of bass > 12 inches9406031139 <td< td=""><td>8</td><td>8</td><td>1</td><td>13</td><td>7</td><td>0</td><td>4</td><td></td></td<>	8	8	1	13	7	0	4					
21 0 1 9 0 0 22 0 0 0 0 0 0 23 0 0 0 0 0 0 24 0 0 0 0 0 0 25 0 0 0 0 0 0 Cotal Anglers 288 245 11 69 99 Cotal Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch	3	3	0	4	0	0	1					
22 0 0 0 0 0 0 23 0 0 0 0 0 0 24 0 0 0 0 0 0 25 0 0 0 0 0 0 Fotal Anglers 288 245 11 69 99 Fotal Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch	1	5	0	0	0	0	1					
22 0 0 0 0 0 0 23 0 0 0 0 0 0 24 0 0 0 0 0 0 25 0 0 0 0 0 0 Fotal Anglers 288 245 11 69 99 Fotal Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch	0	0	0	0	0	0	1					
24 0 0 0 0 0 0 25 0 0 0 0 0 0 0 Total Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch	0	1	0	0	0	0	0					
25 0 0 0 0 0 0 Total Bass (all sizes) 1087 682 11 69 99 Total Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch	0	0	0	0	0	0	0					
Total Bass (all sizes) 1087 682 11 69 99 Total Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch	0	0	0	0	0	0	0					
Total Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch	0	0	0	0	0	0	0					
Total Anglers 288 245 11 36 16 Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 Percent of Catch 3 26 3 26 3 26 Bass 8-12 inches 47 37 55 42 47 Bass 15-20 inches 37 49 36 14 26 Bass 15-20 inches 2 3 9 0 0 Catch By Size Category * 2 3 9 0 0 Catch By Size Category * 0.08 0.03 0.00 0.10 0.10 Bass 15-20 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 15-20 inches/hour 0.01 0.01 0.01 0.00 0.00 Bass 20-25 inches/hour 0.38 0.33 0.14 0.24 0.36 Bass > 12 inches / hour 0.38 0.33 0.14	77	75	160	24	15	52	214	2351				
Angler Hours 2408 2132 77 288 272 Number of Tournaments 19 7 1 1 1 1 Percent of Catch	36	32	32		8	36	68	748				
Number of Tournaments 19 7 1 1 1 Percent of Catch		256	256	56	56	288	580	6377				
Percent of Catch Bass 8-12 inches 14 12 0 43 26 Bass 12-15 inches 47 37 55 42 47 Bass 15-20 inches 37 49 36 14 26 Bass 20-25 inches 2 3 9 0 0 Catch By Size Category * 2 3 9 0 0 Catch By Size Category * 0.08 0.03 0.00 0.10 0.10 Bass 12-15 inches/hour 0.22 0.14 0.08 0.10 0.17 Bass 15-20 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 20-25 inches/hour 0.01 0.01 0.01 0.00 0.00 Bass 20-25 inches/hour 0.38 0.33 0.14 0.24 0.36 Bass 20-25 inches / hour 0.47 0.36 0.14 0.24 0.36 Bass > 12 inches / hour 0.38 0.33 0.14 0.14 0.27 Wean wt. of bass	1	1	1	1	1	1	3	35				
Bass 12-15 inches 47 37 55 42 47 Bass 15-20 inches 37 49 36 14 26 Bass 20-25 inches 2 3 9 0 0 Catch By Size Category * 2 3 9 0 0 Bass 8-12 inches/hour 0.08 0.03 0.00 0.10 0.10 Bass 12-15 inches/hour 0.22 0.14 0.08 0.10 0.17 Bass 15-20 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 20-25 inches/hour 0.01 0.01 0.01 0.00 0.00 Bass 2 8 inches / hour 0.47 0.36 0.14 0.24 0.36 Bass > 12 inches / hour 0.38 0.33 0.14 0.14 0.27 Wt. of bass >12 in. (lbs.) 1902 1289 23 57 127 Mean wt. of bass >12 inches 2.02 2.14 2.13 1.5 1.7 Number of bass > 12 inches 940												
Bass 12-15 inches 47 37 55 42 47 Bass 15-20 inches 37 49 36 14 26 Bass 20-25 inches 2 3 9 0 0 Catch By Size Category * 2 3 9 0 0 Bass 8-12 inches/hour 0.08 0.03 0.00 0.10 0.10 Bass 12-15 inches/hour 0.22 0.14 0.08 0.10 0.17 Bass 15-20 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 20-25 inches/hour 0.01 0.01 0.01 0.00 0.00 Bass 20-25 inches/hour 0.47 0.36 0.14 0.24 0.36 Bass 20-25 inches/hour 0.38 0.33 0.14 0.24 0.36 Bass 2 12 inches / hour 0.38 0.33 0.14 0.27 0.36 Wt. of bass >12 in. (lbs.) 1902 1289 23 57 127 Wean wt. of bass >12 inches 2.02	13	8	16	0	0	37	15					
Bass 15-20 inches 37 49 36 14 26 Bass 20-25 inches 2 3 9 0 0 Catch By Size Category * 8 8 12 10 0.00 0.10 0.10 0.10 Bass 8-12 inches/hour 0.02 0.14 0.08 0.10 0.17 0.36 0.10 0.17 Bass 12-15 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 12-20 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 20-25 inches/hour 0.01 0.01 0.01 0.00 0.00 Bass 20-25 inches/hour 0.47 0.36 0.14 0.24 0.36 Bass > 8 inches / hour 0.47 0.36 0.14 0.24 0.36 Bass > 12 inches / hour 0.38 0.33 0.14 0.14 0.27 Wt. of bass >12 in. (lbs.) 1902 1289 23 57 127 Mean wt. of bass > 12 inches 2.02 2.14 2.13 1.5 1.7 Number of bass > 12 inches 940	43	60	74	58	47	42	50					
Bass 20-25 inches 2 3 9 0 0 Catch By Size Category * 0.08 0.03 0.00 0.10 0.10 Bass 8-12 inches/hour 0.22 0.14 0.08 0.10 0.17 Bass 12-15 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 5-20 inches/hour 0.01 0.01 0.01 0.00 0.00 Bass 20-25 inches/hour 0.01 0.01 0.01 0.00 0.00 Bass 20-25 inches/hour 0.47 0.36 0.14 0.24 0.36 Bass > 8 inches / hour 0.47 0.36 0.14 0.24 0.36 Bass > 12 inches / hour 0.38 0.33 0.14 0.14 0.27 Wt. of bass >12 in. (lbs.) 1902 1289 23 57 127 Mean wt. of bass >12 inches 2.02 2.14 2.13 1.5 1.7 Number of bass > 12 inches 940 603 11 39 73	43	25	10	42	53	21	32					
Bass 8-12 inches/hour 0.08 0.03 0.00 0.10 0.10 Bass 12-15 inches/hour 0.22 0.14 0.08 0.10 0.17 Bass 15-20 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 15-20 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 20-25 inches/hour 0.01 0.01 0.01 0.00 0.00 Bass > 8 inches / hour 0.47 0.36 0.14 0.24 0.36 Bass > 12 inches / hour 0.38 0.33 0.14 0.14 0.27 Wt. of bass >12 in. (lbs.) 1902 1289 23 57 127 Wean wt. of bass >12 inches 2.02 2.14 2.13 1.5 1.7 Number of bass > 12 inches 940 603 11 39 73	1	7	0	0	0	0	2					
Bass 8-12 inches/hour 0.08 0.03 0.00 0.10 0.10 Bass 12-15 inches/hour 0.22 0.14 0.08 0.10 0.17 Bass 12-15 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 15-20 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 20-25 inches/hour 0.01 0.01 0.01 0.00 0.00 Bass 20-25 inches/hour 0.47 0.36 0.14 0.24 0.36 Bass > 8 inches / hour 0.47 0.36 0.14 0.24 0.36 Bass > 12 inches / hour 0.38 0.33 0.14 0.14 0.27 Wt. of bass >12 in. (lbs.) 1902 1289 23 57 127 Wean wt. of bass >12 inches 2.02 2.14 2.13 1.5 1.7 Number of bass > 12 inches 940 603 11 39 73												
Bass 12-15 inches/hour 0.22 0.14 0.08 0.10 0.17 Bass 15-20 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 20-25 inches/hour 0.01 0.01 0.01 0.00 0.00 Bass > 8 inches / hour 0.47 0.36 0.14 0.24 0.36 Bass > 12 inches / hour 0.38 0.33 0.14 0.14 0.27 Wt. of bass >12 in. (lbs.) 1902 1289 23 57 127 Wean wt. of bass >12 inches 2.02 2.14 2.13 1.5 1.7 Number of bass > 12 inches 940 603 11 39 73			0.40				0.05					
Bass 15-20 inches/hour 0.15 0.19 0.05 0.03 0.10 Bass 20-25 inches/hour 0.01 0.01 0.01 0.00 0.00 Bass > 8 inches / hour 0.47 0.36 0.14 0.24 0.36 Bass > 12 inches / hour 0.38 0.33 0.14 0.14 0.27 Wt. of bass >12 in. (lbs.) 1902 1289 23 57 127 Mean wt. of bass >12 inches 2.02 2.14 2.13 1.5 1.7 Number of bass > 12 inches 940 603 11 39 73		0.02	0.10	0.00	0.00	0.07	0.05					
Bass 20-25 inches/hour 0.01 0.01 0.01 0.00 0.00 Bass > 8 inches / hour 0.47 0.36 0.14 0.24 0.36 Bass > 12 inches / hour 0.38 0.33 0.14 0.14 0.27 Wt. of bass >12 in. (lbs.) 1902 1289 23 57 127 Mean wt. of bass >12 inches 2.02 2.14 2.13 1.5 1.7 Number of bass > 12 inches 940 603 11 39 73		0.18	0.46	0.25	0.13	0.08	0.17					
Bass > 8 inches / hour 0.47 0.36 0.14 0.24 0.36 Bass > 12 inches / hour 0.38 0.33 0.14 0.14 0.27 Wt. of bass >12 in. (lbs.) 1902 1289 23 57 127 Wean wt. of bass >12 inches 2.02 2.14 2.13 1.5 1.7 Number of bass > 12 inches 940 603 11 39 73		0.07	0.06	0.18	0.14	0.04	0.10					
Bass > 12 inches / hour 0.38 0.33 0.14 0.14 0.27 Wt. of bass >12 in. (lbs.) 1902 1289 23 57 127 Mean wt. of bass >12 inches 2.02 2.14 2.13 1.5 1.7 Number of bass > 12 inches 940 603 11 39 73	0.00 0	0.02	0.00	0.00	0.00	0	0.00					
Vt. of bass >12 in. (lbs.) 1902 1289 23 57 127 Mean wt. of bass >12 inches 2.02 2.14 2.13 1.5 1.7 Number of bass > 12 inches 940 603 11 39 73		0.29	0.63	0.43	0.27	0.18	0.33					
Mean wt. of bass >12 inches 2.02 2.14 2.13 1.5 1.7 Number of bass > 12 inches 940 603 11 39 73	0.23 0	0.27	0.53	0.43	0.27	0.11	0.28					
Number of bass > 12 inches 940 603 11 39 73	140	141	205	49	31	50.9	364.95	4379				
	2.1 2	2.04	1.5	2.0	2.1	1.54	1.89					
Number of bass > 20 inches 25 19 1 0 0	67	69	135	24	15	33	182.64	2192				
	1	5	0	0	0	0		51				
Hours per bass > 20 inches 96 112 77	288	51	-		-	-	125					
Nt. of largest bass (lbs.) 6.7 6.9 5.7 3.0 4.2	4.8	5.7	3.1	4.2	3.5	2.23	4.5					

* Geometric mean catches were weighted according to the number of tournaments at each reservoir. Hourly catches of bass > 8

or > 12 inches may not equal the sum of catches of included length groups because each catch statistic was calculated

independently as a mean of replicate tournaments on each reservoir.

Reservoir	Length Group (inches)	<u>199</u> 6	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Geo- metric mean	2007 % deviation from mean	2007 6 deviation from 2006
Big Hill	>8	0.47	0.38	0.33	0.41	0.46	0.55	0.50	0.39	0.44	0.48	0.55	0.47	0.45	4.9	-14.5
	>12	0.33	0.29	0.25	0.33	0.35	0.53	0.52	0.36	0.37	0.39	0.46	0.38	0.37	2.3	-17.4
Cedar Bluff	>8 >12	0.66 0.49	0.46 0.42	0.47 0.35	0.51 0.44	0.58 0.59	0.74 0.74	0.37 0.37	0.33 0.30	0.70 0.66	0.33 0.30	0.56 0.51	0.36 0.33	0.49 0.44	-26.1 -24.8	-35.7 -35.3
Clinton ***	>8 >12	0.16 0.13	0.17 0.14	0.29 0.25	0.26 0.21	0.24 0.20	0.09 0.06	0.12 0.06	0.26 0.25				0.14 0.14	0.19 0.15	-25.9 -6.3	
Council Grove	>8 >12	0.31 0.22	0.17 0.13	0.67 0.52										0.22 0.17		
El Dorado ***	>8 >12	0.16 0.14	0.36 0.28	0.54 0.34	0.14 0.11	0.14 0.10			0.08 0.08	0.54 0.33			0.24 0.14	0.20 0.16	20.2 -10.4	
Fall River	>8 >12		0.06 0.04											0.06 0.04		
Glen Elder ***	>8 >12	0.31 0.30		0.11 0.08									0.36 0.27	0.32 0.28	12.6 -1.8	
Hillsdale ***	>8 >12	0.12	0.11 0.10	0.15 0.15	0.16 0.17	0.14 0.14	0.22 0.19	0.12 0.10		0.08 0.05			0.27 0.23	0.13 0.12	110.0 99.9	
Kanopolis	>8 >12	0.12	0.10	0.10 0.04	0.17	0.14	0.13	0.10		0.05			0.23	0.12 0.10 0.04	55.5	
Kirwin	>8 >12	0.79 0.76	0.79 0.70	0.43 0.39	0.43 0.39	0.62 0.60	0.59 0.58	0.15 0.14	0.23 0.23					0.49 0.45		
La Cygne	>8 >12	0.29 0.23	0.37 0.30	0.33 0.22 0.18	0.34 0.26	0.35 0.26	0.38 0.22	0.14 0.11 0.10	0.13 0.13				0.29 0.27	0.25 0.21	14.1 31.5	
Marion	>8 >12	0.20	0.00	0.10	0.20	0.20	0.22	0.10	0.10				0.27	0.21	01.0	
Melvern ***	>8 >12	0.09 0.08	0.22 0.22	0.31 0.19	0.25 0.17	0.24 0.20	0.26 0.23	0.67 0.42	0.37 0.24			0.37 0.24	0.63 0.53	0.18 0.13	258.0 302.1	70.3 120.8
Milford	>8 >12	0.12 0.10	0.19 0.18	0.40 0.26	0.41 0.27	0.28 0.18	0.55 0.32	0.38 0.23	0.35 0.24			0.63 0.35		0.27 0.20		
Norton	>8 >12	1.07 0.80	1.09 0.93	0.89 0.73	1.03 0.84	1.07 1.01	0.97 0.88	0.64 0.61	0.77 0.72					1.00 0.72		
Perry ***	>8 >12	0.11 0.09	0.25 0.20	0.25 0.21	0.37 0.33	0.28 0.21	0.40 0.33	0.25 0.22					0.43 0.43	0.23 0.19	86.7 126.4	
Pomona ***	>8 >12	0.10 0.08			0.48 0.31		0.13 0.13						0.27 0.27	0.11 0.09	141.5 216.6	
Toronto	>8 >12															
Tuttle Creek	>8 >12	0.20 0.15	0.36 0.36	0.19 0.18										0.18 0.16		
Webster	>8 >12	0.49 0.43	0.50 0.47	0.48 0.44	0.34 0.30	0.38 0.34	0.21 0.14	0.40 0.39	0.33 0.32					0.45 0.37		
Wilson***	>8 >12	0.27	0.26 0.23	0.21 0.17	0.25	0.35	0.36 0.33	0.84 0.58	0.48	0.30 0.24	0.77	1.08 0.88	0.18 0.11	0.38 0.31	-52.8 -64.4	-83.3 -87.5

Table 4. Trends in catch per hour for two length groups of black bass from Kansas reservoir black bass angling tournaments, 1996-2007.

*** 2007catch rates based on one tournament.

	F	Percent of Catch		
Length (inches)	Banner Creek	Lake Shawnee	Mean	Total
(
8	0	0	0	
9	0	0	0	
10	0	0	0	
11	0	0	0	
12	4	38	21	
13	25	17	21	
14	20	24	22	
15	25	7	16	
16	16	10	13	
17	5	3	4	
18	5	0	3	
19	0	0	0	
20	0	0	0	
21	0	0 0	0	
22 23	0 0	0	0 0	
		0		
24 25	0	0	0 0	
25	U	U	0	
otal Bass (all sizes)	56	29	43	85
otal Anglers	11	6	9	17
Angler Hours	77	42	60	119
lumber of Tournaments	1	1	1	2
Percent of Catch				
Bass 8-12 inches	0	0	0	
Bass 12-15 inches	48	79	64	
ass 15-20 inches	52	21	37	
ass 20-25 inches	0	0	0	
Catch By Size Category				
Bass 8-12 inches/hour	0.00	0.00	0.00	
Bass 12-15 inches/hour	0.35	0.55	0.00	
ass 15-20 inches/hour	0.38	0.33	0.45	
Bass 20-25 inches/hour	0.00	0.00	0.00	
	0.00	0.00	5.00	
Bass > 8 inches / hour	0.73	0.69	0.71	
Bass > 12 inches / hour	0.73	0.69	0.71	
		0.00	5.71	
lumber of bass > 12 inches	56	29	43	83
ass > 20 in	0	0	0	
lours per bass >=20 in				
/t. of largest bass (lbs.)	3.6	3.0	3.3	

Table 5. Summary of length frequencies, stock indices, and catches of black bass in tournaments on Kansas Lakes in 2007.