

**DOUGLAS RESERVOIR
CREEL SURVEY 2007**

MONTHLY ANGLING EFFORT FOR ALL ANGLERS - 2007

LAKE=DOUGLAS

MONTH	ANGLER HOURS	RELATIVE STANDARD ERROR	HOURS PER ACRE	ANGLER TRIPS	TRIPS PER ACRE	PERCENT EFFORT
01 JANUARY	44243	32.7	1.4	9485	0.3	7.8
02 FEBRUARY	13780	29.0	0.5	3598	0.1	2.4
03 MARCH	63734	19.2	2.1	11767	0.4	11.2
04 APRIL	54764	15.3	1.8	10065	0.3	9.7
05 MAY	71317	27.6	2.3	14504	0.5	12.6
06 JUNE	67931	11.4	2.2	12308	0.4	12.0
07 JULY	71210	17.4	2.3	13264	0.4	12.6
08 AUGUST	37305	12.9	1.2	7208	0.2	6.6
09 SEPTEMBER	43901	18.5	1.4	7417	0.2	7.7
10 OCTOBER	38930	10.2	1.3	7441	0.2	6.9
11 NOVEMBER	35773	20.1	1.2	6979	0.2	6.3
12 DECEMBER	24117	22.7	0.8	5289	0.2	4.3
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TOTAL	567005			109325		

MONTHLY CATCH STATISTICS FOR ALL ANGLERS - 2007

LAKE=DOUGLAS

MONTH	NUMBER FISH CAUGHT	RSE FOR CATCH	FISH CAUGHT PER HOUR	RSE FOR CATCH RATE	NUMBER FISH HARVESTED	RSE FOR HARVEST	FISH HARVESTED PER HOUR	RSE FOR HARVEST RATE
01 JANUARY	76098	34.9	1.72	11.4	20794	35.7	0.47	13.5
02 FEBRUARY	18190	34.2	1.32	17.4	5099	40.5	0.37	26.9
03 MARCH	109622	21.2	1.72	8.9	32504	26.6	0.51	18.0
04 APRIL	92004	20.1	1.68	12.8	20263	26.2	0.37	20.8
05 MAY	151192	28.6	2.12	7.0	59906	30.0	0.84	11.4
06 JUNE	200396	14.4	2.95	8.7	86952	15.1	1.28	9.7
07 JULY	101830	19.7	1.43	9.2	30620	24.8	0.43	17.5
08 AUGUST	49989	19.6	1.34	14.6	12311	24.7	0.33	20.6
09 SEPTEMBER	60144	22.8	1.37	13.0	13609	24.8	0.31	16.3
10 OCTOBER	58395	12.7	1.50	7.5	14793	18.5	0.38	15.5
11 NOVEMBER	85140	23.2	2.38	11.5	39350	29.6	1.10	21.3
12 DECEMBER	39552	24.5	1.64	9.0	14953	30.5	0.62	19.9
----- TOTAL	1042552				351154			

SUMMARY OF SPECIES CATCH STATISTICS - 2007

LAKE=DOUGLAS

SPECIES	TOTAL NUMBER FISH CAUGHT	RSE FOR CATCH	SPECIES CATCH COMPOSITION (%)	INTENDED NUMBER CAUGHT	TOTAL NUMBER FISH HARVESTED	RSE FOR HARVEST	SPECIES HARVEST COMPOSITION (%)	INTENDED NUMBER HARVESTED	% OF CAUGHT FISH RELEASED	AVERAGE WEIGHT (LBS)	NUMBER FISH RECORDED
ALEWIFE	3014	287.7	0.3	0	1015	330.8	0.3	0	66.3	0.65	22
GIZZARD SHAD	37	3410.1	0.0	0	37	3410.1	0.0	0	0.0	1.25	1
CARP	185	1836.7	0.0	0	0	.	0.0	0	100.0	.	0
BLACK BULLHEAD	939	559.7	0.1	939	832	582.7	0.2	832	11.4	2.58	13
BLUE CATFISH	152	1706.7	0.0	76	152	1706.7	0.0	76	0.0	2.85	2
CHANNEL CATFISH	55951	19.4	5.4	40152	34960	22.7	10.0	25854	37.5	1.66	549
FLATHEAD CATFISH	3349	169.6	0.3	3148	2920	175.8	0.8	2787	12.8	2.59	44
WHITE BASS	66935	20.2	6.4	38278	19094	31.0	5.4	15126	71.5	1.12	409
STRIPED BASS	319	1422.3	0.0	0	106	1812.2	0.0	0	66.8	0.93	3
CHEROKEE BASS	35	3172.0	0.0	0	35	3172.0	0.0	0	0.0	3.85	1
BLUEGILL	197068	11.5	18.9	135809	109311	14.4	31.1	85625	44.5	0.28	1710
REDEAR SUNFISH	657	1251.3	0.1	0	303	1710.8	0.1	0	53.9	0.29	4
SMALLMOUTH BASS	15287	59.5	1.5	10934	0	.	0.0	0	100.0	.	0
LARGEMOUTH BASS	283024	7.7	27.2	245924	17213	18.1	4.9	8029	93.9	1.45	309
WHITE CRAPPIE	297778	7.8	28.6	280218	118957	11.2	33.9	114538	60.1	0.64	2600
BLACK CRAPPIE	57343	21.6	5.5	55049	31945	25.4	9.1	30867	44.3	0.81	726
BLACKNOSE CRAPPIE	1519	625.3	0.1	1519	824	708.6	0.2	824	45.8	0.93	17
YELLOW PERCH	35	3172.0	0.0	0	35	3172.0	0.0	0	0.0	0.30	1
SAUGER	31966	33.9	3.1	14841	6805	56.0	1.9	3380	78.7	1.27	150
WALLEYE	13948	66.5	1.3	5698	3008	109.9	0.9	1316	78.4	1.89	46
FRESHWATER DRUM	7693	125.4	0.7	237	2408	194.5	0.7	181	68.7	1.94	40

SUMMARY OF FISHING EFFORT AND CATCH RATES FOR INTENDED SPECIES GROUPS - 2007

LAKE=DOUGLAS

INTENDED SPECIES	ANGLER HOURS	RSE FOR ANGLER HOURS	ANGLER TRIPS	PERCENT EFFORT	NUMBER CAUGHT PER HOUR	RSE FOR CATCH PER HOUR	NUMBER HARVESTED PER HOUR	RSE FOR HARVEST PER HOUR	NUMBER OF INTERVIEWS
ANY CATFISH	46155	14.1	8830	8.1	1.03	12.0	0.70	11.9	106
WHITE BASS	14397	20.1	2738	2.5	2.71	17.1	1.12	36.1	31
ANY SUNFISH	31338	14.9	5936	5.5	5.23	10.7	3.32	14.3	74
ANY BLACK BASS	116281	8.3	21846	20.5	0.91	7.2	0.03	40.6	403
LARGEMOUTH BASS	88444	11.0	17241	15.6	1.13	7.4	0.01	155.8	248
ANY CRAPPIE	227504	7.4	44492	40.1	1.89	13.5	0.85	23.9	656
SAUGER	15001	19.5	2972	2.6	0.85	22.4	0.21	30.5	38
WALLEYE	5178	28.7	948	0.9	1.21	16.0	0.26	28.0	14
ANY SPECIES	22707	15.2	4323	4.0	0.93	28.8	0.56	30.2	36
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TOTAL	567005		109326						

**SUMMARY OF RELATIVE SPECIES CATCH RATES
WITHIN TARGET GROUPS - 2007**

LAKE=DOUGLAS

TARGET GROUP	SPECIES WITHIN TARGET GROUPS	RELATIVE CATCH RATE	RELATIVE HARVEST RATE
ANY CATFISH	BLACK BULLHEAD	0.02	0.02
	ANY CATFISH	0.00	0.00
	BLUE CATFISH	0.00	0.00
	CHANNEL CATFISH	0.93	0.61
	FLATHEAD CATFISH	0.07	0.07
ANY SUNFISH	BLUEGILL	5.23	3.32
	REDEAR SUNFISH	0.00	0.00
ANY BLACK BASS	SMALLMOUTH BASS	0.05	0.00
	LARGEMOUTH BASS	1.20	0.04
ANY CRAPPIE	ANY CRAPPIE	0.00	0.00
	WHITE CRAPPIE	1.57	0.67
	BLACK CRAPPIE	0.31	0.18
	BLACKNOSE CRAPPIE	0.01	0.00

COMPARISON OF BLACK BASS CATCH RATES (# FISH/HOUR) BETWEEN TOURNAMENT AND NON-TOURNAMENT ANGLERS
(MONTHS ARE LISTED ONLY IF > 90% OF BLACK BASS ANGLERS RESPONDED TO THE QUESTION ON TOURNAMENT PARTICIPATION)

LAKE=DOUGLAS

MONTH	% BLACK BASS EFFORT BY TOURNAMENT ANGLERS	CATCH RATE FOR TOURNAMENT ANGLERS	# OF INTERVIEWS (TOURNAMENT)	CATCH RATE FOR NON-TOURNAMENT ANGLERS	# OF INTERVIEWS (NON-TOURNAMENT)
01 JANUARY	0		0	1.17	27
02 FEBRUARY	0		0	0.76	12
03 MARCH	22	0.80	6	0.67	26
04 APRIL	11	1.58	5	1.36	45
05 MAY	14	1.03	6	1.25	50
06 JUNE	26	1.39	13	1.00	58
07 JULY	28	0.65	13	0.88	74
08 AUGUST	23	0.87	11	0.65	57
09 SEPTEMBER	71	0.92	43	0.77	40
10 OCTOBER	38	1.36	18	1.07	54
11 NOVEMBER	35	1.07	14	0.95	43
12 DECEMBER	0		0	1.16	32

**SUMMARY OF TRIP EXPENDITURES AND CONSUMER SURPLUS
FOR INTENDED SPECIES - 2007**

LAKE=DOUGLAS

INTENDED SPECIES	TOTAL TRIP EXPENDITURES	TOTAL CONSUMER SURPLUS	TOTAL VALUE BY ANGLERS	NUMBER OF INTERVIEWS
ANY CATFISH	23200	45480	68680	100
WHITE BASS	27880	29830	57710	30
ANY SUNFISH	12640	52330	64970	73
ANY BLACK BASS	610600	418280	1028890	398
LARGEMOUTH BASS	402820	247980	650790	241
ANY CRAPPIE	229760	383460	613220	644
SAUGER	28030	31990	60020	37
WALLEYE	5010	7470	12480	14
ANY SPECIES	8120	11520	19640	32
TOTAL	1348060	1228340	2576400	1569

SUMMARY OF SOCIOLOGICAL QUESTIONS - 2007

LAKE=DOUGLAS

DISTRIBUTION OF STATES OF RESIDENCE OF INTERVIEWED ANGLERS

STATE	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
TN	2878	88.9
OTHERS	358	11.1

DISTRIBUTION OF COUNTIES OF RESIDENCE OF INTERVIEWED ANGLERS

COUNTY	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
COCKE	410	14.3
HAMBLEN	346	12.0
JEFFERSON	766	26.7
KNOX	446	15.5
SEVIER	368	12.8
OTHERS IN TN	537	18.7
OUT-OF-STATE	1	0.0

DISTRIBUTION OF ONE-WAY MILEAGE OF ANGLERS INTERVIEWED

ONE-WAY MILES TRAVELED	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 0-25	2253	69.6
B) 26-100	866	26.8
C) 101-250	70	2.2
D) > 250	46	1.4

DISTRIBUTION OF REASONS WHY INTERVIEWED ANGLERS MADE THE TRIP

REASON FOR TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) FISHING	1599	99.3
B) VACATION	12	0.7

DISTRIBUTION OF NUMBER OF DAYS IN TRIPS OF INTERVIEWED ANGLERS

NUMBER DAYS IN TRIP	NUMBER ANGLERS INTERVIEWED	PERCENT CONTRIBUTION
A) 1	1563	97.0
B) 2-5	48	3.0
D) 11-15	1	0.1