

**APPENDIX K**

**ANGLER USE DATA**

## CLAYTOR LAKE ANGLER INTERVIEW FORM 2007

*"Hello, I'm doing an angler survey for Appalachian Power Company. I'd like to ask you some questions about your fishing trip here today. Is that OK?"*

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ (month/day/year)

Lake Sample Section: \_\_\_\_ (1-2)

Interview Number: \_\_\_\_\_

Fishing From: Bank \_\_\_\_ Boat \_\_\_\_

No. of Anglers in Party: \_\_\_\_\_

Time of Interview: \_\_\_\_\_ (military time)

1.) When did you begin fishing today? \_\_\_\_\_ (military time)

2.) What county, state, and zip code did you travel from to go fishing here?

County: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

3.) Why did you decide to fish Claytor Lake today? \_\_\_\_\_

4.) What species are you fishing for? \_\_\_\_\_ (try and get them to name one, if two are mentioned write both down in order they were given) **Note:** If Striped Bass are indicated, ask supplemental questions in separate sheet and attach

5.) Within the last whole month (list month) \_\_\_\_\_, how many **DAYS** did you fish here? \_\_\_\_\_ days

6.) Are you fishing with a guide? Yes No

7.) How would you rate your overall fishing success at this lake? (only for the person being interviewed)

Poor \_\_\_\_\_ Fair \_\_\_\_\_ Good \_\_\_\_\_ Excellent \_\_\_\_\_

*The following questions deal with how much money you (total for all anglers in the boat) spent on your fishing trip on Claytor Lake today. This information will aid us justifying the importance of anglers to the Claytor Lake area.*

8.) How much will your group spend for this trip today on: (everyone in the boat combined)

Gas? \$ \_\_\_\_\_ Bait/Tackle? \$ \_\_\_\_\_ Food? \$ \_\_\_\_\_ Boat Rental/Launch Fees? \$ \_\_\_\_\_ Lodging? \$ \_\_\_\_\_ Other? \$ \_\_\_\_\_ (TOTAL = \$ \_\_\_\_\_)

9.) How much of the total expenditure did your group spend in the immediate lake area (*within Pulaski*)? \$ \_\_\_\_\_ or % \_\_\_\_\_

10.) How much more and above your present expenditure of \$ \_\_\_\_\_ (total from # 8) would your group be willing to pay to fish here? \$ \_\_\_\_\_

11.) Are you participating in a tournament? Yes No

12.) Do you fish here at night? Yes No

13.) What species did you fish for during your last night trip? \_\_\_\_\_

14.) Within the last whole month (list month) \_\_\_\_\_, how many **NIGHTS** did you fish here? \_\_\_\_\_ nights

15.) During your last night trip, when did you start and stop fishing? (start) \_\_\_\_\_ (stop) \_\_\_\_\_ (total hrs) \_\_\_\_\_

16.) How many anglers were in your party during your last night trip? \_\_\_\_\_

17.) Where did you access the lake during your last night trip? (circle one) State Ramp - Private Ramp - Shoreline Home

18.) Why do you fish at night? (circle one answer)

- A. Catch rates are better
- B. To avoid other anglers or boaters
- C. This is the only time I can get away from home/work
- D. Temperatures and/or weather is better at night
- E. Other

19.) How many and what species did you catch on your last night fishing trip? (place an X in table if can't remember)

Species caught	Number caught	Harvested

20.) "How would you describe conditions on the lake today in regard to the amount of floating debris on the water where you primarily recreated?" (Circle one)

1	2	3	4	5	6	7	8	9
No Debris	Between no debris and little	Little Debris	Between little and average	Avg. Debris	Between average and too much	Too Much Debris	Between too much and far too much	Far too Much Debris

**21.) Now I would like to ask you some questions about the fish you released today. (all anglers in the boat added together)**

Get them to name species, and length according to the following:

Black Bass	<12"	12-18"	>18"	
Striped bass	<20"	20-25"	26-30"	>30"
Hybrid Striped Bass	<20"	>20"		
Crappie	<10"	>10"		
Walleye	>20"			
All Others	(just enter the number caught and do not record lengths)			

Species	Total #	Released (use only length groupings, all others just record # released)					
		No.					
		Length					
		No.					
		Length					
		No.					
		Length					
		No.					
		Length					

*“That concludes the interview portion of this survey. At this point, I’d like measure the fish you’ve harvested today. I can do this while you continue fishing. Is this o.k.?”*

Species	Total #	Lengths	Harvested (record each length NOT GROUPS USED ABOVE)				

Species Codes

LMB LARGEMOUTH BASS	CAT CATFISH, GENERAL	CRP CRAPPIE, GENERAL
SMB SMALLMOUTH BASS	FCF FLATHEAD CATFISH	WHC WHITE CRAPPIE
BAS BLACK BASS GENERAL	CCF CHANNEL CATFISH	BLC BLACK CRAPPIE
SPB SPOTTED BASS	CAP CARP	SUN SUNFISH, GENERAL
STB STRIPED BASS	WAE WALLEYE	BLG -BLUEGILL
SBH HYBRID STRIPED BASS	YEP YELLOW PERCH	WHP WHITE PERCH
WHB WHITE BASS	MUE MUSKY	ANY ANYTHING

**Claytor Lake Striped Bass Angler Survey 2007**  
Striper and Hybrid Striper Supplemental Questionnaire

*Since you indicated that you are fishing for striped bass today, we want to ask a few additional questions about your striper fishing:*

1. If you had a choice, what would you prefer to catch at Claytor Lake?  
Striped Bass only      Hybrid Striped bass only      Both species
  
2. What months do you fish for stripers and hybrids at Claytor Lake? (circle all that apply)  
Jan   Feb   Mar   Apr   May   Jun   Jul   Aug   Sep   Oct   Nov   Dec
  
3. How many years have you been fishing for stripers and hybrids at Claytor Lake? \_\_\_\_\_
  
4. In general, how would you rate the quality of striped bass and hybrid fishing at Claytor Lake?  
Excellent      Good      Fair      Poor      Very Poor
  
5. In the past 5 years, do you think that fishing pressure on stripers and hybrids (the number of anglers fishing for stripers and hybrids) at Claytor Lake has:  
Increased greatly      Increased somewhat      Stayed about the same  
Decreased somewhat      Decreased greatly
  
6. In the past 5 years, has your fishing success for stripers and hybrids (the number you typically catch) at Claytor Lake:  
Increased greatly      Increased somewhat      Stayed about the same  
Decreased somewhat      Decreased greatly
  
7. In the past 5 years, has the average size of stripers and hybrids you catch at Claytor Lake:  
Increased greatly      Increased somewhat      Stayed about the same  
Decreased somewhat      Decreased greatly
  
8. What is most important in determining a successful striper and hybrid fishing trip at Claytor Lake? (circle one)  
Catching many stripers/hybrids      Catching one or two big ones  
Catching a limit to eat      Just getting out fishing
  
9. Do you fish other lakes for stripers and/or hybrids? \_\_\_\_\_ Yes      \_\_\_\_\_ No  
  
If yes, name the top 2 lakes you fish for stripers and hybrids.  
  
\_\_\_\_\_

## Claytor Lake Angler Use Daily Count Form 2007

Clerk Name: \_\_\_\_\_

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Temperature: \_\_\_\_\_

Weather: Sunny/Humid/Partly Cloudy/Cloudy/Fog/Drizzle/Rain/Snow

### Count Time

Time Of Count: \_\_\_\_\_ (military time)

Lake Sample Section: \_\_\_\_\_ (1-2)

Number Of Bank Anglers: \_\_\_\_\_

Number of Boat Anglers: \_\_\_\_\_

Number Of Angler Boats: \_\_\_\_\_

Number Of Motor Boats (non-angling): \_\_\_\_\_

Number Of Jet Ski's: \_\_\_\_\_

Number of Canoes/Kayaks: \_\_\_\_\_

Number Of Interviews For The Day: \_\_\_\_\_

**Table 1. Monthly trip expenditures for Claytor Lake, March - November 2007**

Month	Expenditure Category							CS
	Gas	Food	Bait	Lodging	Boat Rental	Other	Total	
Mar	\$ 44,781	\$ 15,682	\$ 10,397	\$ -	\$ 4,298	\$ -	\$ 75,158	\$ -
Apr	\$ 27,526	\$ 4,386	\$ 337	\$ 11,471	\$ 1,181	\$ -	\$ 44,901	\$ 4,752
May	\$ 41,513	\$ 4,045	\$ 6,067	\$ 1,277	\$ 4,364	\$ -	\$ 57,266	\$ -
Jun	\$ 21,517	\$ 14,075	\$ 7,189	\$ 6,480	\$ 2,633	\$ 2,430	\$ 54,325	\$ -
Jul	\$ 32,908	\$ 5,805	\$ 4,981	\$ 3,023	\$ 2,611	\$ -	\$ 49,327	\$ -
Aug	\$ 29,914	\$ 5,384	\$ 3,129	\$ 8,652	\$ 5,246	\$ 1,657	\$ 53,983	\$ -
Sep	\$ 45,718	\$ 16,747	\$ 11,733	\$ 6,096	\$ 2,950	\$ -	\$ 83,243	\$ 8,619
Oct	\$ 19,482	\$ 2,402	\$ 3,229	\$ 641	\$ 2,028	\$ -	\$ 27,782	\$ -
Nov	\$ 7,880	\$ 1,527	\$ 223	\$ 3,244	\$ 366	\$ -	\$ 13,239	\$ 1,391
Total	\$ 271,239	\$ 70,053	\$ 47,285	\$ 40,884	\$ 25,677	\$ 4,087	\$ 459,224	\$ 14,762

**Table 2. Monthly trip expenditure relative error statistics for Claytor Lake, March - November 2007**

Month	RSE BY EXPENDITURE CATEGORY							CS
	Gas	Food	Bait	Lodging	Boat Rental	Other	Total	
Mar	58.1	59.8	153.4	.	73.9	.	51.9	.
Apr	84.8	170.4	596.5	252.1	90.4	.	93	157.2
May	69.5	151.2	136	299.9	90.9	.	63.4	.
Jun	112.9	183.9	256.5	521.2	103.6	398	125.9	.
Jul	90.3	245.1	118.2	288.9	98.3	.	97.5	.
Aug	83.8	153.1	129.4	350.3	80.2	502.9	108.4	.
Sep	101.6	188.2	208.3	357.3	98.2	.	133.3	465.8
Oct	90.5	112.5	129.8	230.4	105	.	74.5	.
Nov	69.3	86.8	199.3	272	100.7	.	89.3	104.1
Total	30.1	65.8	77.2	145.6	33	312.4	36.4	276.8

**Table 3. Distribution of fishing success rating by anglers fishing Claytor Lake, March - November 2007**

<b>Success Category</b>	<b>Frequency</b>	<b>Percent</b>
Poor	96	16.4
Fair	372	63.4
Good	105	17.9
Excellent	14	2.4

**Table 4. Distribution of states of origin of anglers fishing Claytor Lake, March - November 2007**

<b>State</b>	<b>Frequency</b>	<b>Percent</b>
VA	508	85.2
WV	45	7.6
NC	40	6.8
Other	1	0.2
Blank	2	0.3
Total	596	100

**Table 5. Distribution of counties of origin of anglers fishing Claytor lake, March - November 2007**

<b>State</b>	<b>County</b>	<b>Frequency</b>	<b>%</b>
VA	Pulaski	261	44.09
	Montgomery	80	13.51
	Tazewell	33	5.57
	Carroll	23	3.89
	Wythe	22	3.72
	Giles	21	3.55
	Radford	13	2.2
	Smyth	12	2.03
	Grayson	10	1.69
	Roanoke	9	1.52
	Salem	6	1.01
	Patrick	3	0.51
	Augusta	2	0.34
	Powhatan	2	0.34
	Bland	1	0.17
	Bristol	1	0.17
	Chesapeake	1	0.17
	Sussex	1	0.17
	Washington	1	0.17
	Surry	1	0.17
Tazewell	1	0.17	

State	County	Frequency	%
WV	Mercer	28	4.73
	Monroe	5	0.84
	McDowell	3	0.51
	McDowell	2	0.34
	Wyoming	2	0.34
	Bluefield	1	0.17
	Kanawha	1	0.17
	Putnam	1	0.17
	Raleigh	1	0.17
	Summers	1	0.17
NC	Surry	22	3.72
	Wilkes	4	0.68
	Yadkin	3	0.51
	Davie	2	0.34
	E. Bend	2	0.34
	Forsythe	2	0.34
	Lee	2	0.34
	Alexander	1	0.17
	Mecklenburg	1	0.17
	Sparta	1	0.17
CA	San Diego	1	0.17
UNKNOWN	Buccaneer	2	0.34
	Missing	7	

**Table 6. Distribution of days fished by anglers fishing Claytor Lake, March - November 2007**

<b>DAYS_FISH</b>	<b>Frequency</b>	<b>Percent</b>
0	164	28.23
1	29	4.99
2	146	25.13
3	40	6.88
4	92	15.83
5	17	2.93
6	25	4.3
8	19	3.27
10	29	4.99
12	5	0.86
13	1	0.17
15	6	1.03
16	2	0.34
19	1	0.17
20	4	0.69
21	1	0.17

Note: Zero indicated this was their first trip angling at Claytor Lake this year.

**Table 7. Distribution of previous month fished by night anglers on Claytor Lake, 2007**

<b>Month</b>	<b>Frequency</b>	<b>Percent</b>
Apr	31	14.76
Aug	31	14.76
Feb	36	17.14
Jul	22	10.48
Jun	18	8.57
Mar	14	6.67
May	11	5.24
Oct	14	6.67
Sep	33	15.71

Frequency Missing = 77

**Table 8. Number of nights fished by night anglers in the previous month at Claytor Lake, March - November 2007**

<b>Number of Nights</b>	<b>Frequency</b>	<b>Percent</b>
0	71	35.0
1	34	16.8
2	56	27.6
3	11	5.4
4	12	5.9
5	3	1.5
6	5	2.5
7	1	0.5
8	5	2.5
10	2	1.0
12	3	1.5

**Table 9. Time night anglers begin fishing trips at Claytor Lake, March – November 2007.**

<b>START TIME</b>	<b>Frequency</b>	<b>Percent</b>
1400	1	0.49
1500	1	0.49
1600	5	2.43
1700	32	15.53
1730	1	0.49
1800	42	20.39
1900	82	39.81
1930	2	0.97
2000	14	6.8
2030	1	0.49
2100	11	5.34
2200	8	3.88
2300	2	0.97
2330	1	0.49
0130	1	0.49
0200	2	0.97

**Table 10. Time night anglers end fishing trips at night Claytor Lake, March - November 2007**

<b>STOP TIME</b>	<b>Frequency</b>	<b>Percent</b>
1000	2	1.0
1100	1	0.5
1900	2	1.0
2200	13	6.3
2230	1	0.5
2300	4	1.9
2400	39	13.6
0100	12	5.3
0200	48	5.8
0230	3	23.3
0300	34	1.5
0330	1	16.5
0400	9	0.5
0500	5	4.4
0600	16	2.4
0700	13	7.8
0800	3	6.3

**Table 11. Distribution of years of fishing experience, striped bass/hybrid striped bass supplemental questionnaire, Claytor Lake, March – November 2007**

<b>Years experience</b>	<b>Frequency</b>	<b>Percent</b>
0.5	48	31.8
1	1	0.7
2	6	4.0
3	5	3.3
4	20	13.3
5	16	10.6
6	13	8.6
7	5	3.3
8	10	6.6
10	6	4.0
12	8	5.3
15	4	2.7
19	1	0.7
20	8	5.3

**Table 12. Distribution of opinion on striped bass/hybrid striped bass fishing quality Claytor Lake, March – November 2007**

<b>Fishing Quality</b>	<b>Frequency</b>	<b>Percent</b>
Excellent	4	3.7
Good	36	33.6
Fair	52	48.6
Poor	13	12.2
Very poor	2	1.9

**Table 13. Distribution of opinion on fishing pressure, striped bass/hybrid striped bass supplemental questionnaire, Claytor Lake, March – November 2007**

<b>Fishing pressure</b>	<b>Frequency</b>	<b>Percent</b>
Stayed same	55	53.4
Increased somewhat	27	26.2
Decreased somewhat	8	7.8
Increased greatly	8	7.8
Decreased greatly	5	4.9

Frequency Missing = 50

**Table 14. Distribution of opinion on striped bass/hybrid striped bass fishing success for trip Claytor Lake, March – November 2007**

<b>Trip success category</b>	<b>Frequency</b>	<b>Percent</b>
Just getting out fishing	82	76.6
Catching one or two big ones	17	15.9
Catching many fish	7	6.5
Catching limit to eat	1	0.9

**Table 15a. Distribution of do you fish other lakes for Striped Bass/Hybrid Striped Bass Claytor Lake, March – November 2007**

	<b>Frequency</b>	<b>Percent</b>
N	26	41.9
Y	36	58.1
<b>Other lakes (1)</b>	<b>Frequency</b>	<b>Percent</b>
Smith Mountain Lake	18	51.4
Norman	4	11.4
Boone	3	8.6
Cherokee	2	5.7
Highrock	2	5.7
Murray	2	5.7
TN	2	5.7
Bluestone	1	2.9
NC	1	2.9

Frequency missing = 118

**Table 15b. Distribution of other lakes, March - November 2007**

<b>Other lakes (2)</b>	<b>Frequency</b>	<b>Percent</b>
Boone	7	30.4
Cherokee	5	21.7
SML	3	13.0
Kerr	2	8.7
Loudon	2	8.7
3	1	4.4
Norman	1	4.4
Sc	1	4.4
TN	1	4.4

Frequency missing = 130

**Tables 16a through 16g. Length frequency distributions of fish measured (caught) in the creel for all anglers, Claytor Lake, March – November 2007.**

**Table 16a. Bass (general)**

<b>Length (inches)</b>	<b>Frequency</b>	<b>Cumulative frequency</b>	<b>Percent</b>	<b>Cumulative percent</b>
6	2	2	16.7	16.7
12	2	4	16.7	33.3
13	3	7	25.0	58.3
14	1	8	8.3	66.7
15	3	11	25.0	91.7
16	1	12	8.3	100.0

**Table 16b. Largemouth bass**

<b>Length (inches)</b>	<b>Frequency</b>	<b>Cumulative frequency</b>	<b>Percent</b>	<b>Cumulative percent</b>
4	1	1	1.8	1.8
10	1	2	1.8	3.5
12	49	51	86.0	89.5
17	2	53	3.5	93.0
20	2	55	3.5	96.5
21	2	57	3.5	100.0

**16c. Smallmouth bass**

<b>Length (inches)</b>	<b>Frequency</b>	<b>Cumulative frequency</b>	<b>Percent</b>	<b>Cumulative percent</b>
12	2	2	22.2	22.2
16	1	3	11.1	33.3
18	4	7	44.4	77.8
21	2	9	22.2	100.0

**16d. Striped bass**

<b>Length (inches)</b>	<b>Frequency</b>	<b>Cumulative frequency</b>	<b>Percent</b>	<b>Cumulative percent</b>
20	2	2	2.2	2.2
21	3	5	3.3	5.4
22	9	14	9.8	15.2
23	21	35	22.8	38.0
24	4	39	4.4	42.4
25	1	40	1.1	43.5
26	8	48	8.7	52.2
27	6	54	6.5	58.7

<b>Length (inches)</b>	<b>Frequency</b>	<b>Cumulative frequency</b>	<b>Percent</b>	<b>Cumulative percent</b>
28	30	84	32.6	91.3
29	2	86	2.2	93.5
30	2	88	2.2	95.7
31	2	90	2.2	97.8
34	2	92	2.2	100.0

**16e. Hybrid striped bass**

<b>Length (inches)</b>	<b>Frequency</b>	<b>Cumulative frequency</b>	<b>Percent</b>	<b>Cumulative percent</b>
0	2	2	25	25
20	2	4	25	50
22	2	6	25	75
24	2	8	25	100

**16f. General catfish**

<b>Length (inches)</b>	<b>Frequency</b>	<b>Cumulative frequency</b>	<b>Percent</b>	<b>Cumulative percent</b>
16	2	2	18.2	18.2
20	2	4	18.2	36.4
24	2	6	18.2	54.6
28	5	11	45.5	100.0

**16g. Walleye**

<b>Length (inches)</b>	<b>Frequency</b>	<b>Cumulative frequency</b>	<b>Percent</b>	<b>Cumulative percent</b>
20	1	1	33.3	33.3
28	2	3	66.7	100.0

**Table 17. Angler survey results from recent Claytor Lake and Smith Mountain Lake surveys (1998 and 2007) CL = Claytor Lake, SML = Smith Mountain Lake.**

Sample Period	<sup>3</sup> CL 2007	<sup>2</sup> CL 1998	<sup>3</sup> SML 2006	<sup>3</sup> SML 2003	<sup>2</sup> SML 1998
	3/1 to 11/30	1 Year (Mar 98 – Feb 99)	3/1 to 10/31	3/16 to 10/31	1 Year
Total Fishing Effort (hours)	198,113	330,027	219,438	383,149	682,658
Survey Method	Roving	Access Point	Roving	Roving	Roving
Total Hours per acre	43.3	72.2	10.7	18.6	33.1
Black Bass Effort (hours)	95,499	191,350	122,645	162,408	282,516
Striped Bass Effort (hours)	38,362	31,460	55,193	133,913	237,094
Crappie Effort (hours)	5,587	8,174	8,426	12,866	40,802
Catfish Effort (hours)	7,125	24,122	2,451	8,546	27,302
Black Bass Catch	35,126	115,264	60,661	83,616	143,616
Striped Bass Catch	11,813 <sup>4</sup>	6,224 <sup>4</sup>	11,893	42,309	39,984
Crappie Catch	668	7,628	20,927	21,300	68,609
Catfish Catch	4,202	5,058	6,456	9,796	17,803
<sup>1</sup> Black Bass Catch Rate (fish/hr)	0.18	0.35	0.38	0.32	0.51
<sup>1</sup> Striped Bass Catch Rate (fish/hr)	0.17	0.08	0.17	0.18	0.17
<sup>1</sup> Crappie Catch Rate (fish/hr)	0.55	0.92 <sup>5</sup>	1.56	1.22	1.68
<sup>1</sup> Catfish Catch Rate (fish/hr)	0.26	0.01	0.34	0.11	0.65
Black Bass Harvest	3,187	3,489	4,019	7,898	
Striped Bass Harvest	5,210 <sup>4</sup>	1,088 <sup>4</sup>	4,674	14,810	19,727
Crappie Harvest	596	2,673	5,570	6,041	
Catfish Harvest	1,597	3,904	2,556	5,742	
Total Expenditures	\$459,224	\$595,694	\$5,787,737	\$3,428,005	\$3,095,280
Dollars spent per acre per year	\$100.44	\$130.29	\$280.96	\$166.41	\$150.26
Consumer Surplus	\$14,762		\$281,494	\$2,699,648	\$3,916,095

<sup>1</sup>Catch rates are for anglers targeting this species.

<sup>2</sup>Information was combined for night and day surveys.

<sup>3</sup>Survey was done during daytime hours only.

<sup>4</sup>Includes hybrid striped bass.

<sup>5</sup>Black crappie catch rate.