

## Executive Summary

## Cobb Lake 2007

A stocking assessment was conducted on Cobb Lake in the fall of 2007. Both a sinking and a floating gillnet (standard experimental gangs) were set on September 28, 2007. The total sampling effort was 49.25 net-hours resulting in a gill net catch per net-hour (CPUE) of 0.85 for rainbow trout, and 0.85 for eastern brook trout. The objectives of this assessment were 1) To determine the level of natural recruitment resulting from fertile (diploid) brook trout stocked prior to 1997 and 2) To assess stock status for this mixed species fishery. Previous gillnet assessments were completed in 1998 and 2004. The 2007 survey was complete following a recommendation for a follow up survey to assess the lake for the presence of diploid eastern brook trout. Cobb Lake has been stocked annually with rainbow trout and eastern brook trout since 1986. Only sterile brook trout have been stocked since 1997.

The management objective for Cobb Lake is to maintain an average quality, high use fishery for both brook trout and rainbow trout during the summer and winter angling periods. The results of the assessment indicate that both brook trout and rainbow trout are growing well and are reaching sizes adequate for the fishery. The mean length of rainbow trout was 318 mm with a maximum length of 435 mm; while, the mean length of eastern brook trout was 337 mm with a maximum length of 456 mm. In 2004 the lack of both eastern brook trout and rainbow trout less than two years of age for both the 1998 and 2004 data was cause for concern. In 2007, age 1 and age 2 fish for both species were well represented in the catch.

Adipose fin clipped eastern brook trout were stocked into Cobb Lake from 2005-2007 to directly assess the extent of natural recruitment. Based on the 2007 survey, there was no evidence for natural recruitment in the age 1-3 year classes. Further and in contrast to a previous survey where eleven percent of the Cobb Lake brook trout sampled were maturing, only one eastern brook trout captured was mature, indicating that numbers brook trout that are capable of spawning in Cobb Lake are now negligible and present little risk to other populations of fish in the area. Based on this observation and the adequate performance of the fishery, no further stock assessment surveys are recommended for Cobb Lake until changes in management or fishing effort occur.

At present the combined stocking rate for Cobb Lake is approximately 50% of that recommended by Stringer 1980 for yearling rainbow and fingerling brook trout. It is recommended that future consideration should be given to experimentally increasing stocking rates in some lakes in the region such as Cobb to determine if higher fish densities will generate increased angling effort on a region wide basis.



Figure 1. Photo of Cobb Lake with inset: BC Conservation Corps field crew (Jessica Courtier) holding a sample from the gillnet catch.

**OMINECA REGION  
LAKE STOCK ASSESSMENT REPORT**

**LAKE NAME:** Cobb Lake **BC WBID:** 00654NECR  
**ALIAS:** Cobb Lake  
**LAKE LOCATION:** Nearest center: 49 km W Prince George Drainage: Fraser  
 UTM: 10.463929.5978140  
**LAKE ATTRIBUTES:** Surface Area: 210 Ha Elevation: 777 m  
 Littoral Area: 98.1 Ha T.D.S.: 105 ppm  
 Max Depth: 10 m Mean depth: 5.9 m

**MANAGEMENT OBJECTIVE (mean length in gillnet (cm)):**

		RB	EB
Objective 1	Family Fishery (High CPUE <30 cm)	<input type="checkbox"/>	<input type="checkbox"/>
Objective 2	Average Quality (30-40 cm)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Objective 3	Above Average (40-50 cm)	<input type="checkbox"/>	<input type="checkbox"/>
Objective 4	Trophy ( 20% > 50 cm for RB, 20% > 40 cm for EB)	<input type="checkbox"/>	<input type="checkbox"/>

**MANAGEMENT/SURVEY HISTORY :**

Previous gill net assessment(s): no  yes  BCCF 2004, Zimmerman 1998  
 Year(s) Surveyed: 2004, 1998

**STOCKING DATA:**

**Current Stocking Rate** Rainbow 48 Yearling/Ha Annually  
 E. Brook 204 Fingerling/Ha Annually  
**Strain** Rainbow BLACKWATER R  
 E. Brook AYLMEER  
**Percent of rate:** Rainbow: 16.6 %  
 E. Brook 33.2 %  
 Total 49.7 %

<b>Recommended Stocking Rate: (Stringer, 1980)</b>		
	Total	Fish/Ha
<b>Fry</b>	603063	2872
<b>Fall Fry</b>	120613	574
<b>Yearlings</b>	60306	287

**SURVEY DETAILS:**

Date (yy.mm.dd) Survey Agency Crew  
 2007-09-28 BCCC Jessica Courtier, Adam Goulding

**Netting Specifications:** Net type: Standard Experimental Net length: 90m (3x30m)  
 Setting: Sinking and Floating Panel Mesh: RISC- Standard Gill Net  
 Duration: Overnight

**CATCH COMPARISON:**

Survey Date	28-Sep-07		22-Sep-04		28-May-98	
	Net Hours		Net Hours		Net Hours	
	49.25		76.25		3.5	
# of Sets:	2		3		1	
	Catch	CPUE	Catch	CPUE	Catch	CPUE
Rainbow	42	0.85	86	1.13	32	9.14
Eastern brook trout	42	0.85	69	0.90	6	1.71
Kokanee	0	-	0	-	0	-
Lake Trout	0	-	0	-	0	-
Bull Trout	0	-	0	-	0	-
Burbot	0	-	0	-	0	-
Red-side Shiner	0	-	0	-	0	-
Lake Chubb	24	0.49	95	1.25	1	0.29
Peamouth Chubb	0	-	0	-	0	-
Long Nose Sucker	185	3.76	0	-	0	-
Large Scale Sucker	0	-	0	-	0	-
Northern Pikeminnow	0	-	0	-	0	-
Mountain Whitefish	0	-	0	-	0	-
Lake Whitefish	0	-	0	-	0	-
Pygmy Whitefish	0	-	0	-	0	-

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**SURVEY CONCLUSIONS:**

Rainbow Trout Objective	Objectives Achieved		If no-Reason
	Yes	No	
1. Family	<input type="checkbox"/>	<input type="checkbox"/>	
2. Average	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Above Average	<input type="checkbox"/>	<input type="checkbox"/>	
4. Trophy	<input type="checkbox"/>	<input type="checkbox"/>	
Eastern Brook trout Objective	Yes	No	If no-Reason
1. Family	<input type="checkbox"/>	<input type="checkbox"/>	
2. Average	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Above Average	<input type="checkbox"/>	<input type="checkbox"/>	
4. Trophy	<input type="checkbox"/>	<input type="checkbox"/>	

**Recommended Next Assessment:** Only as needed if management or angling effort changes substantially.

**NOTES/ RECOMMENDATIONS:**

**Assessment:** All brook trout captured in the 2007 assessment that were ages 1-3 were adipose-fin clipped. Two unclipped brook trout were captured, one of which (age-7+) appeared to be a spent diploid fish capable of spawning.

**Management:** Diploid brook trout do not appear to have residualized in Cobb Lake to any substantial degree. Cobb Lake should continue to be managed as a stocked-lake fishery for both rainbow and brook trout. Unless management regime or effort levels change, the current management regime should be maintained and there is no need for further gillnet assessments. Angling effort should be monitored periodically using remote methods (boat counts, creel cameras) to determine trends in angling effort.

**Comments:** Cobb Lake will be used as part of an experiment starting in 2008 to determine optimal stocking rates, based on angling effort. Cobb Lake supported 1739, 1833 and 12222 summer angler days from 2005-2007 or 8.28, 8.73 and 5.82 angler days/Ha (aerial boat counts). Based on a 2001 fully stratified creel, Cobb generated 2450 angler days and 11.67 Angler days/ ha. Values for the 2005-2007 SLIM boat counts were within the range of ground-based counts in the early 1990's: range 1157-2103 Angler day and 5.5-10.01 angler days/ ha.

**Uncertainties:** Large scale suckers were abundant in the 2007 assessment, it is unclear whether this was due to an increase in sucker abundance or a change in gill net location or type. The use of sinking nets typically increases sucker catch rates.

**Recent Brood Request Comments:**

**2007-Rainbow.** Annual. Changed strain to blakwater- mixed cyprinids present (no northern pikeminnow- was NRT). Assessed '04- Good RB growth.

**2007- Eastern Brook trout.** Annual. Assessed '04. Excellent growth- may have missing cohorts. Limited natural recruitment. Mark again for 06 Brood- assess in '08.

**History of Angling Regulations**

There are no special angling regulations for Cobb Lake.

**Reported by:** Cory Williamson and Jessica Courtier

**Date:** Jul-08

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**Table 1. Physical attributes of Cobb Lake rainbow and eastern brook trout for all sample years listed by age:**

Sample Year	Age	Sample Size	Length (mm)				Weight (g)				Condition (k)			
			Mean	Min	Max	StdDev	Mean	Min	Max	StdDev	Mean	Min	Max	StdDev
<b>Rainbow Trout</b>														
2007	1	13	229	200	259	19.4	155	92.4	228	46.7	1.25	1.10	1.37	0.1
2004	1	1	149	149	149	-	35	35	35	-	1.06	1.06	1.06	-
2007	2	15	329	289	355	19.2	467	324	568	72.3	1.30	1.08	1.49	0.1
1998	2	2	296	286	305	13.4	278	270	285	10.6	1.08	1.00	1.15	0.1
2007	3	13	386	308	434	33.6	600	333	844	152.7	1.04	0.71	1.32	0.2
2004	3	7	341	222	390	60.2	446	120	600	173.2	1.06	0.98	1.29	0.1
1998	3	10	374	342	439	25.9	520	405	755	93.3	0.99	0.85	1.06	0.1
2007	4	1	435	435	435	-	883	883	883	-	1.07	1.07	1.07	-
2004	4	10	390	355	422	18.8	640	520	800	91.7	1.08	0.91	1.23	0.1
1998	4	12	413	391	453	17.4	719	560	910	109.9	1.02	0.89	1.12	0.1
2004	5	6	406	376	438	20.7	752	670	810	59.5	1.13	0.95	1.26	0.1
1998	5	8	418	396	456	19.0	741	605	850	76.1	1.02	0.86	1.17	0.1
2004	6	1	412	412	412	-	800	800	800	-	1.14	1.14	1.14	-
<b>Eastern Brook Trout</b>														
2007	1	5	175	168	184	6.7	60	52.2	65.1	6.4	1.11	1.04	1.28	0.1
2007	2	8	293	259	325	20.5	321	204	458	79.8	1.25	1.16	1.33	0.1
2004	2	22	306	275	327	14.0	330	222	422	56.6	1.15	0.96	1.53	0.1
2007	3	27	371	340	422	21.6	629	394	920	123.7	1.22	0.66	1.50	0.2
2004	3	16	371	331	402	19.7	629	460	885	116.7	1.22	1.06	1.36	0.1
2004	4	5	403	374	430	22.9	843	605	1020	154.3	1.28	1.16	1.43	0.1
2007	6	1	456	456	456	-	1413	1413	1413	-	1.49	1.49	1.49	-
2007	7	1	440	440	440	-	1331	1331	1331	-	1.56	1.56	1.56	-

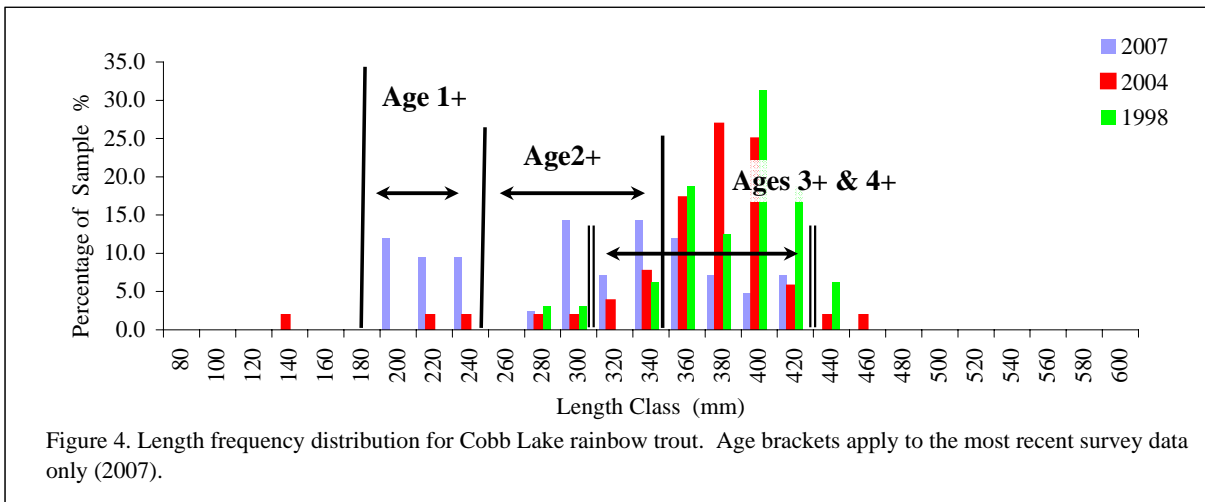
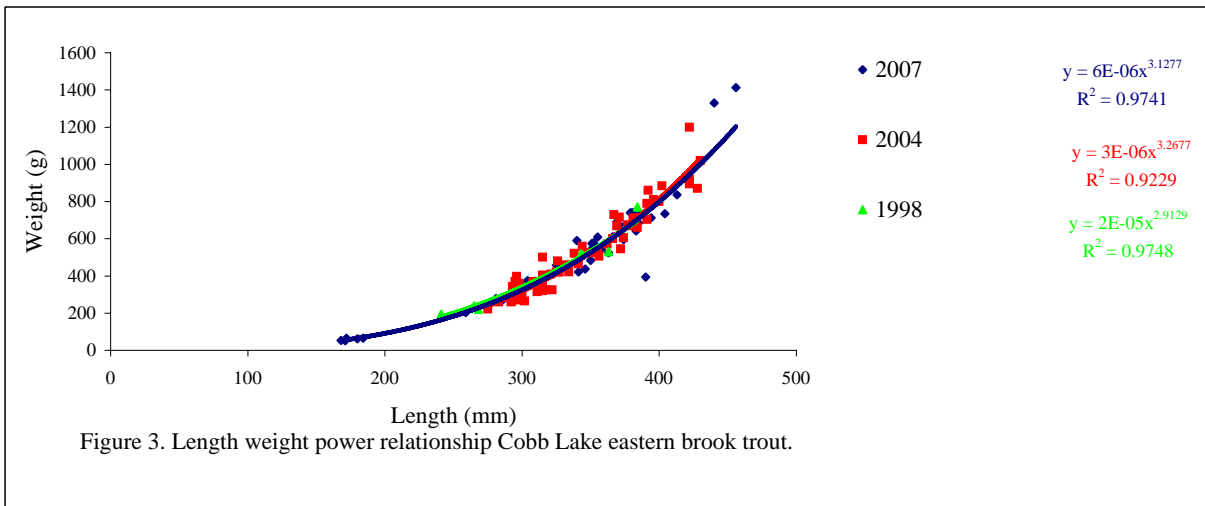
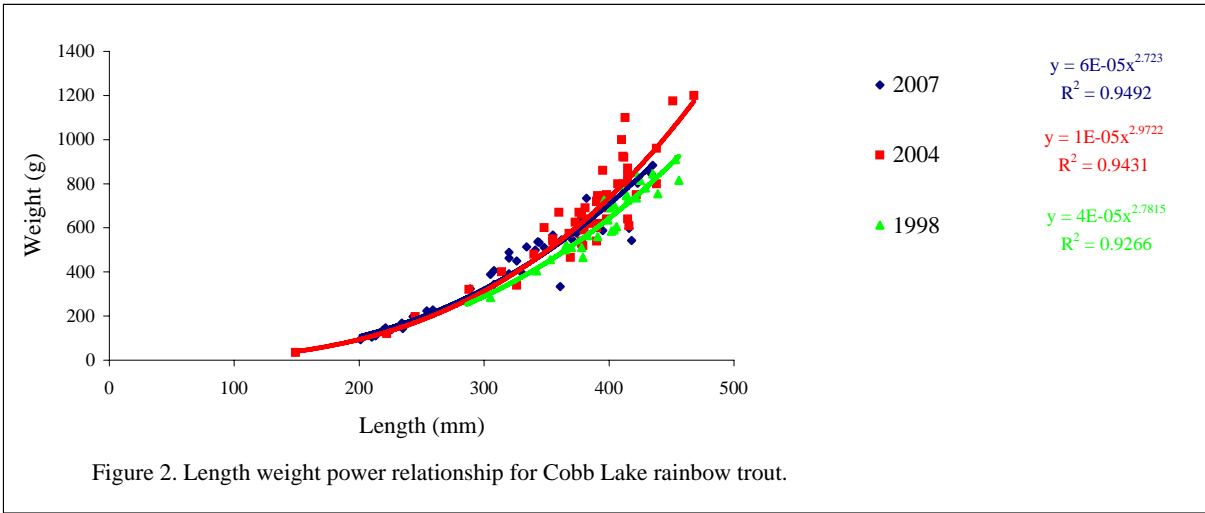
**Table 2. Summary of physical attributes of Cobb Lake rainbow and eastern brook trout for all sample years.**

Sample Year	Sample Size	Length (mm)				Weight (g)				Condition (k)			
		Mean	Min	Max	StdDev	Mean	Min	Max	StdDev	Mean	Min	Max	StdDev
<b>Rainbow Trout</b>													
2007	42	318	200	435	70.1	422	92	883	218.8	1.20	0.71	1.49	0.17
2004	52	379	149	468	54.8	667	35	1200	230.7	1.16	0.85	1.56	0.16
1998	32	395	286	456	37.8	635	270	910	162.0	1.01	0.85	1.17	0.08
<b>Brook Trout</b>													
2007	42	337	168	456	73.0	538	52	1413	295.5	1.23	0.66	1.56	0.15
2004	58	346	275	430	42.0	537	222	1200	222.2	1.23	0.96	1.60	0.15
1998	6	311	241	384	59.9	413	195	770	231.2	1.26	1.11	1.39	0.11

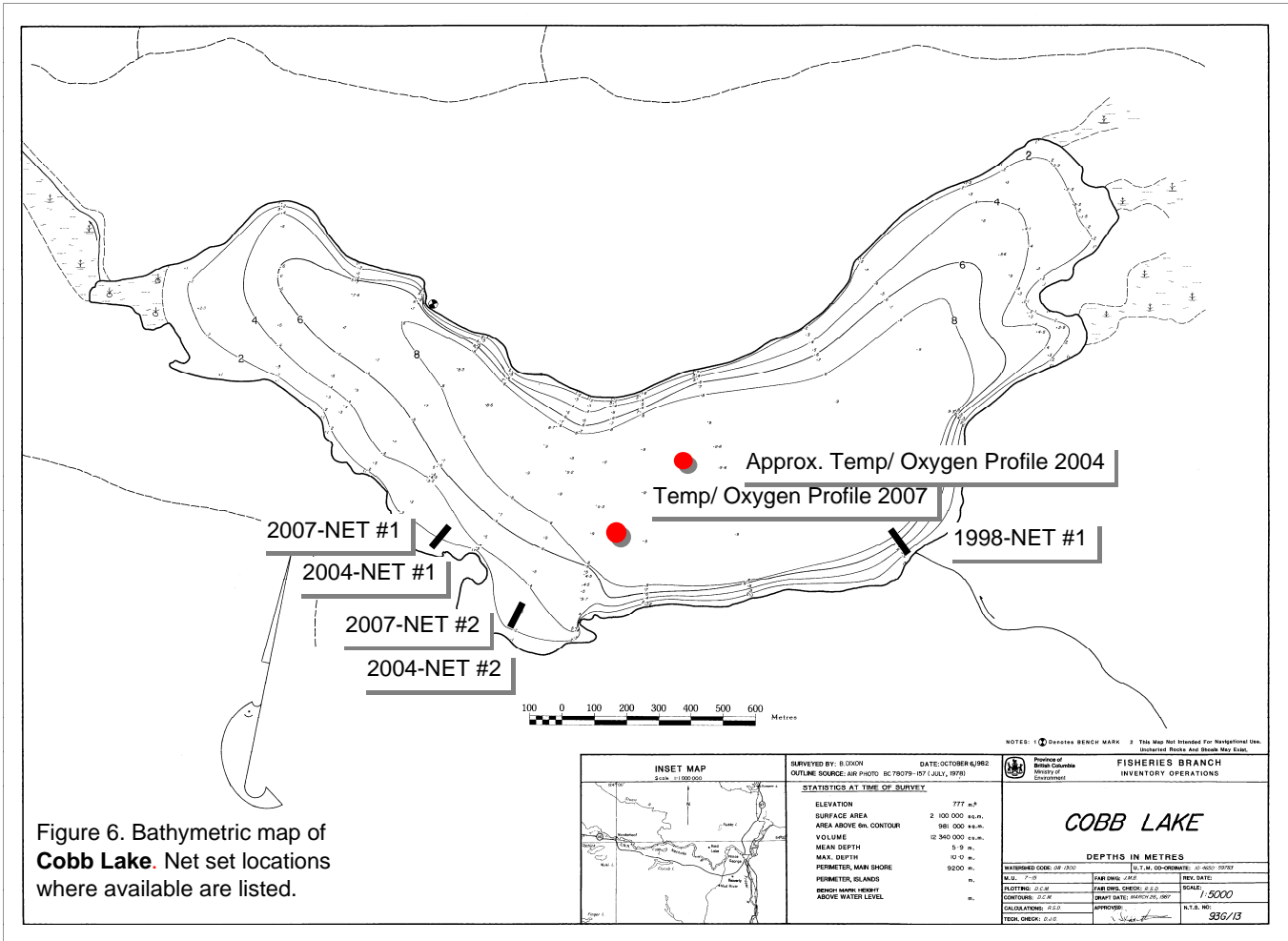
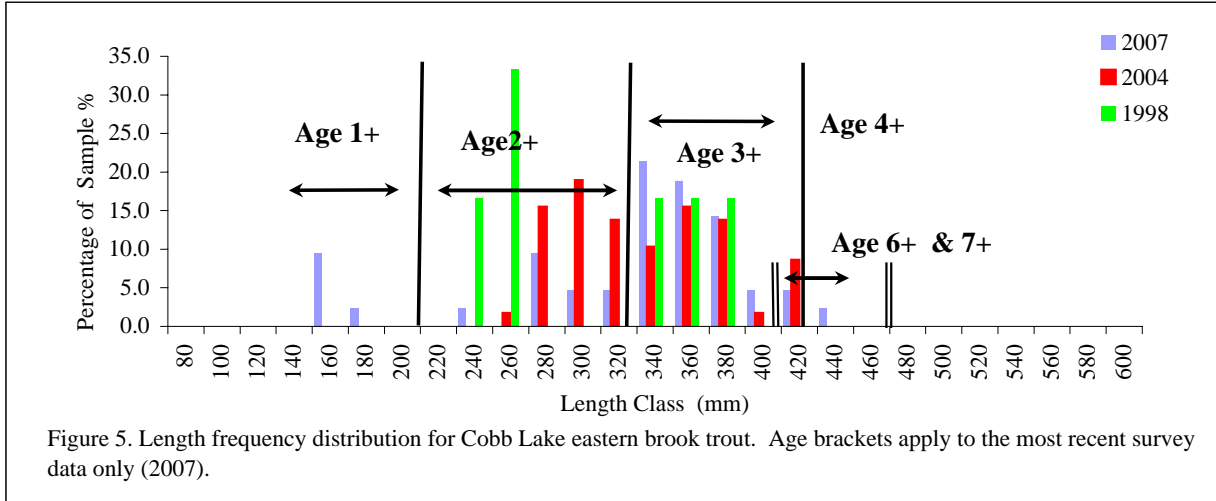
**Table 3. Proportion of Catch (by survey year) for Cobb Lake rainbow trout and eastern brook trout.**

Survey Year	2007	2004	1998
<b>Rainbow trout</b>			
Less than 250 mm	23.8 %	5.8 %	0.0 %
Between 250-300 mm	9.5 %	1.9 %	3.1 %
Between 300-400 mm	54.8 %	57.7 %	40.6 %
Greater than 400 mm	11.9 %	34.6 %	56.3 %
Greater than 500 mm	0.0 %	0.0 %	0.0 %
<b>Eastern brook trout</b>			
Less than 250 mm	11.9 %	0.0 %	16.7 %
Between 250-300 mm	11.9 %	17.2 %	33.3 %
Between 300-400 mm	64.3 %	70.7 %	50.0 %
Greater than 400 mm	11.9 %	12.1 %	0.0 %
Greater than 500 mm	0.0 %	0.0 %	0.0 %

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**Table 4. Complete stocking history for Cobb Lake (1984-2007).**

Release Date	Species Name	Fish Count	Strain	Genotype	Mark	Average Size (gm)	Life Cycle Stage
2007-06-10	RB	10000	BLACKWATER R	2N		23.3	Yearling
2007-06-04	EB	20000	AYLMER	AF3N	Adipose	7.6	Fingerling
2006-06-06	RB	10000	BLACKWATER R	2N		19.7	Yearling
2006-05-31	EB	20000	AYLMER	AF3N	Adipose	5.9	Fingerling
2005-06-06	EB	20000	AYLMER	AF3N	Adipose	6.3	Fingerling
2005-06-06	RB	10000	TUNKWA	2N		11.3	Yearling
2004-06-01	RB	10000	TUNKWA	2N		9	Yearling
2004-06-01	EB	20000	AYLMER	AF3N		7	Fingerling
2003-06-11	EB	20000	AYLMER	AF3N		6.6	Fingerling
2003-06-11	RB	10000	BADGER	2N		10.2	Yearling
2002-06-18	RB	10000	TZENZAICUT	2N		25.3	Yearling
2002-06-14	EB	20000	AYLMER	AF3N		10	Fingerling
2001-06-11	EB	11000	AYLMER	AF3N		8.5	Fingerling
2001-06-05	EB	9434	AYLMER	AF3N		7.8	Fingerling
2001-05-30	RB	10000	DRAGON	2N		9.5	Yearling
2000-05-30	EB	20000	AYLMER	AF3N		4.8	Fingerling
2000-05-30	RB	10000	PREMIER	2N		9.9	Yearling
1999-06-01	RB	10000	PENNASK	2N		6.5	Yearling
1999-06-01	EB	20000	AYLMER	AF3N		5.9	Fingerling
1998-05-28	EB	20000	AYLMER	3N		4.3	Fingerling
1998-05-28	RB	10000	BADGER	2N		7.8	Yearling
1997-06-16	RB	10000	BADGER	2N		7.8	Yearling
1997-06-16	EB	12500	AYLMER	2N		3	Fingerling
1996-05-30	EB	20000	AYLMER	3N		3.6	Fingerling
1996-05-30	RB	10000	BADGER	2N		5.3	Yearling
1995-06-10	RB	3690	GENIER	2N		12.4	Yearling
1995-06-10	EB	20000	AYLMER	2N		4	Fingerling
1995-06-10	RB	6310	TUNKWA	2N		7.7	Yearling
1994-06-12	EB	20000	AYLMER	2N		3.8	Fingerling
1994-06-12	RB	10000	TUNKWA	2N		7.5	Yearling
1993-06-11	EB	3000	AYLMER	2N		4.3	Fingerling
1993-05-30	EB	16936	AYLMER	2N		3.4	Fingerling
1993-05-30	RB	10000	TUNKWA	2N		2.9	Yearling
1992-06-17	EB	20000	AYLMER	2N		3.2	Fingerling
1992-06-17	RB	10000	PREMIER	2N		9	Yearling
1991-05-22	EB	20000	AYLMER	2N		2.3	Fingerling
1991-05-22	RB	10000	BADGER	2N		16.1	Yearling
1990-06-23	RB	6388	PREMIER	2N		6.5	Yearling
1990-06-23	EB	8050	AYLMER	2N		4.3	Fingerling
1990-06-11	RB	3612	BADGER	2N		16.6	Yearling
1990-06-11	EB	11950	AYLMER	2N		4.1	Fingerling
1989-06-15	EB	8429	AYLMER	2N		2.4	Fry
1989-06-13	RB	3358	PREMIER	2N		6.5	Yearling
1989-06-07	RB	6642	TUNKWA	2N		8.1	Yearling
1989-06-07	EB	11571	AYLMER	2N		2.5	Fry
1988-06-01	EB	25000	AYLMER	2N		2.4	Unknown
1988-05-01	RB	10000	TUNKWA	2N		9.9	Unknown
1987-07-01	EB	15000	AYLMER	2N		2.1	Unknown
1987-05-01	RB	10000	TUNKWA	2N		15.6	Unknown
1986-06-01	EB	31000	AYLMER	2N		1.4	Unknown
1986-05-01	RB	7500	PREMIER	2N		2.9	Unknown
1985-06-01	EB	10000	AYLMER	2N		2.4	Unknown
1984-05-01	EB	40000	AYLMER	2N		3.7	Unknown

**Table 5. 2004 limnological profile for Cobb Lake**

26-Oct-04		Station UTM:		10.463349.5978537		
Depth (m)	DO mg/L	DO %sat	Temp. °C	pH	Cond (25°C)	
0	6.04	75.3	7.54		113	
1	6.06	77.3	7.75		113	
2	6.05	80.1	7.81		113	
3	5.93	82	7.86			
4	6.06	81.7	7.87			
5	6.01	82.1	7.86		114	
6	6	83.8	7.87		114	
7	5.99	84.9	7.85		114	
8	5.99	84.6	7.84		115	
9	6.51	76.7	7.55		118	
10	6.52	65.6	7.4		137	

**Table 6. 2007 limnological profile for Cobb Lake**

28-Sep-07		Station UTM:		10.464575.5978175		
Depth (m)	DO mg/L	DO %sat	Temp. °C	pH	Cond (25°C)	
0	6.62	61.8	12.12		78	
1	6.54	60.9	12.15		78	
2	6.64	61.7	12.14		78	
3	6.56	61.2	12.12		77	
4	6.64	61.7	12.04		77	
5	6.6	61.2	11.96		77	
6	6.5	60.3	11.95		77	
7	6.51	60.5	12.02		77	

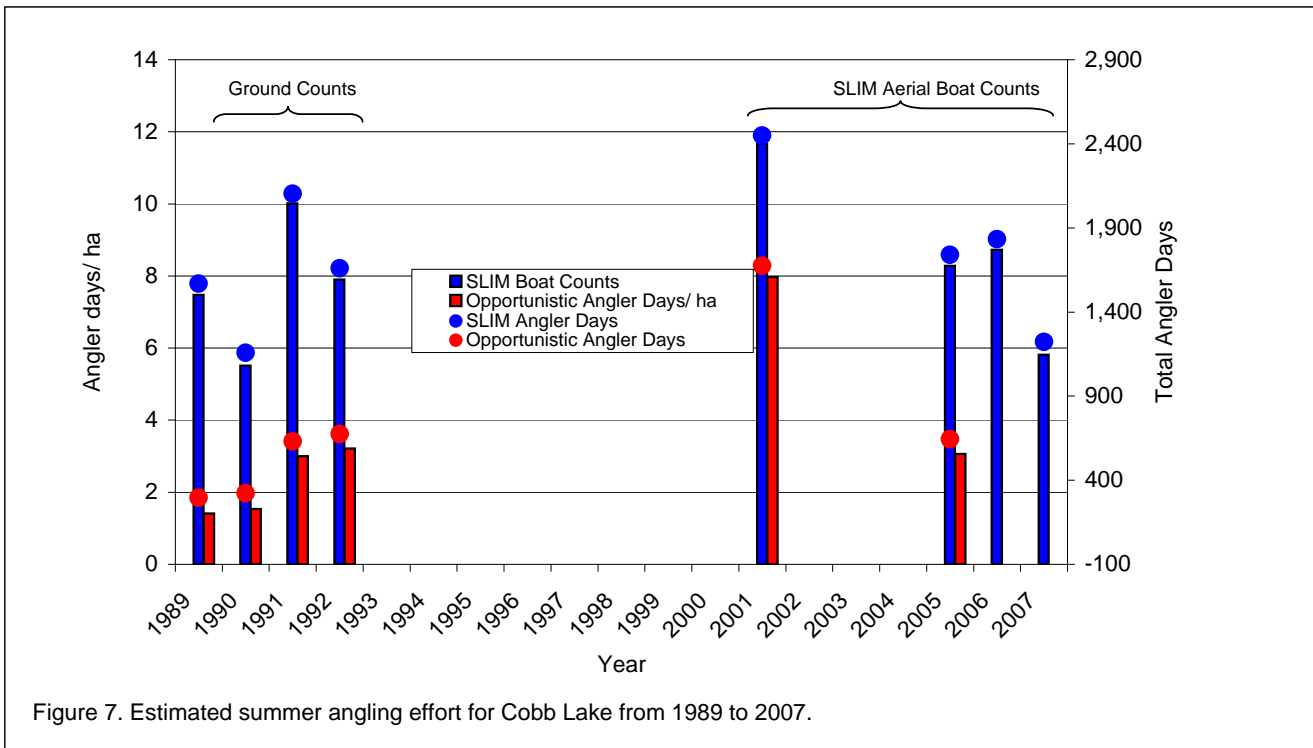


Figure 7. Estimated summer angling effort for Cobb Lake from 1989 to 2007.



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**Table 7. Stock Assessment Data for 2007 (eastern brook trout- see lake files for additional survey data). AD= Adipose Clip**

Species Caught	Calendar Age	Length (mm)	Weight (grams)	Condition (k)	Clip	Sex	Maturity	Ageing Comments	Comments
EB	1++	172	65.1	1.28	AD	Unknown	Immature		most likely af3n
EB	1++	184	64.9	1.04	AD	Unknown	Immature		most likely af3n
EB	1++	168	53.2	1.12	AD	Female	Immature		AF3N
EB	1++	171	52.2	1.04	AD	Female	Immature	one otolith	AF3N
EB	1++	180	62.7	1.08	AD	Female	Immature	1 otolith collected	1 otolith collected
EB	2+	325	458.1	1.33	AD	Female	Immature		AF3N
EB	2+	300	348.3	1.29	AD	Female	Immature		AF3N
EB	2+	282	269.7	1.20	AD	Female	Immature		AF3N
EB	2+	310	361.7	1.21	AD	Female	Immature		AF3N
EB	2+	304	374.3	1.33	AD	Female	Immature		AF3N
EB	2+	281	278.6	1.26	AD	Female	Immature		AF3N
EB	2+	259	203.6	1.17	AD	Female	Immature		AF3N
								changed weight back to 272.5; length changed from 386 to 286	AF3N, weight originally recorded as 272.5 however entered as 722.5 given weight length relationship for similar fish
EB	2+	286	272.5	1.16	AD	Female	Immature		
EB	3+	346	436.8	1.05	AD	Female	Immature		AF3N
EB	3+	350	483.9	1.13	AD	Female	Immature		AF3N
EB	3+	404	734.9	1.11	AD	Female	Immature		AF3N
									POSSIBLE THAT LENGTH OR WEIGHT RECORDED INCORRECTLY
EB	3+	390	394	0.66	AD	Male	Immature		gonads thin then become thicker towards middle
EB	3+	374	666.4	1.27	AD	Unknown	Immature		most likely AF3N
EB	3+	422	920.4	1.22	AD	Male	Maturing		
EB	3+	341	421.9	1.06	AD	Female	Immature		AF3N
EB	3+	383	640.9	1.14	AD	Female	Immature		AF3N
EB	3+	358	544.4	1.19	AD	Female	Immature		AF3N
EB	3+	385	685.1	1.20	AD	Female	Immature		AF3N
EB	3+	340	589.9	1.50	AD	Female	Immature		AF3N
EB	3+	394	712.9	1.17	AD	Female	Immature		AF3N
EB	3+	381	739.7	1.34	AD	Female	Immature		AF3N
EB	3+	386	726.9	1.26	AD	Male	Maturing		
EB	3+	363	524.3	1.10	AD	Female	Immature		AF3N
EB	3+	355	609.2	1.36	AD	Female	Immature		AF3N
EB	3+	352	578.9	1.33	AD	Female	Immature		AF3N
EB	3+	369	691.0	1.38	AD	Female	Immature		AF3N
EB	3+	351	574.0	1.33	AD	Female	Immature		AF3N
EB	3+	353	562.6	1.28	AD	Male	Immature		
EB	3+	351	544.8	1.26	AD	Male	Immature		
EB	3+	413	836.4	1.19	AD	Female	Immature		AF3N
EB	3+	370	678.0	1.34	AD	Female	Immature		AF3N
EB	3+	380	739.3	1.35	AD	Female	Immature		AF3N
EB	3+	366	611.1	1.25	AD	Female	Immature		AF3N
EB	3+	379	740.2	1.36	AD	Male	Spent		
EB	3+	374	595.4	1.14	AD	Female	Immature		AF3N
								1 otolith collected; small growth in years 4-6	1 ot
EB	6+	456	1412.5	1.49		Female	Immature		
EB	7+	440	1330.6	1.56		Female	Spent	small growth in years 4-7	

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Table 7a. Stock Assessment Data for 2007 (rainbow trout- see lake files for additional survey data).

Species Caught	Calender Age	Length (mm)	Weight (grams)	Condition (k)	Clip	Sex	Maturity	Ageing Comments	Comments
RB	1++	243	196.6	1.37		Female	Immature		
RB	1++	226	139.7	1.21		Female	Immature		
RB	1++	254	223.6	1.36		Male	Immature		
RB	1++	221	146.5	1.36		Male	Maturing		
RB	1++	210	112.3	1.21		Male	Maturing		
RB	1++	256	211.1	1.26		Female	Immature		
RB	1++	234	168.5	1.32		Male	Maturing		
RB	1++	259	228.0	1.31		Female	Immature		
RB	1++	200	92.4	1.16		Unknown	Immature		
RB	1++	235	143.3	1.10		Unknown	Immature		
RB	1++	210	104.4	1.13		Female	Immature		
RB	1++	213	110.8	1.15		Female	Immature		
RB	1++	219	135.9	1.29		Female	Immature		
RB	2+	308	405.7	1.39		Female	Maturing		
RB	2+	320	462.5	1.41		Female	Maturing		
RB	2+	289	323.6	1.34		Male	Maturing		
RB	2+	341	498.5	1.26		Female	Maturing		
RB	2+	334	513.3	1.38		Female	Maturing		
RB	2+	344	534.0	1.31		Male	Maturing		
RB	2+	348	510.8	1.21		Male	Maturing		
RB	2+	320	489.1	1.49		Female	Maturing		
RB	2+	355	545.2	1.22		Female	Maturing		
RB	2+	343	537.5	1.33		Female	Maturing	one otolith	
RB	2++	331	392.4	1.08		Unknown	Immature		
RB	2++	305	388.9	1.37		Female	Immature		
RB	2++	320	392.1	1.20		Female	Immature		
RB	2++	326	449.8	1.30		Female	Maturing		
RB	2++	355	567.7	1.27		Male	Maturing		
RB	3+	374	576.2	1.10		Male	Immature		
RB	3+	377	638.8	1.19		Female	Maturing		
RB	3+	395	587.9	0.95		Male	Maturing		gonads chunky, not uniform along length of body
RB	3+	416	597.0	0.83		Male	Maturing		
RB	3+	308	343.2	1.17		Male	Maturing	small 1st year growth	
RB	3+	382	733.9	1.32		Female	Maturing		
RB	3+	418	543.0	0.74		Female	Maturing		
RB	3+	398	712.8	1.13		Male	Maturing		
RB	3+	362	545.0	1.15		Female	Maturing		
RB	3+	423	802.5	1.06		Male	Immature		
RB	3+	434	844.1	1.03		Male	Maturing		
RB	3+	371	543.8	1.06		Female	Maturing		
RB	3+	361	333.3	0.71		Male	Maturing	vague 1st annulus	
RB	4+	435	883.1	1.07		Male	Maturing		

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**Table 7b. Stock Assessment Data for 2007 (lake chubb and largescale sucker- see lake files for additional survey data).**

Species Caught	Calender Age	Length (mm)	Weight (grams)	Condition (k)	Clip	Sex	Maturity	Ageing Comments	Comments
Lake Chubb		86	8.6	1.35					
Lake Chubb		87	9.6	1.46					
Lake Chubb		87	9.9	1.50					
Lake Chubb		87	9.2	1.40					
Lake Chubb		88	9.5	1.39					
Lake Chubb		88	8.9	1.31					
Lake Chubb		90	7.6	1.04					
Lake Chubb		91	9.8	1.30					
Lake Chubb		91	7.8	1.04					
Lake Chubb		93	10.9	1.36					
Lake Chubb		95	11.3	1.32					
Lake Chubb		96	11.0	1.24					
Lake Chubb		96	10.9	1.23					
Lake Chubb		97	9.8	1.07					
Lake Chubb		97	8.8	0.96					
Lake Chubb		99	12.5	1.29					
Lake Chubb		101	11.0	1.07					
Lake Chubb		101	10.7	1.04					
Lake Chubb		102	11.6	1.09					
Lake Chubb		102	12.1	1.14					
Lake Chubb		105	13.7	1.18					
Lake Chubb		105	17.6	1.52					
Lake Chubb		106	14.1	1.18					
Lake Chubb		110	13.3	1.00					
Large-scale Sucker		150	45.0	1.33					
Large-scale Sucker		162	51.5	1.21					
Large-scale Sucker		164	49.3	1.12					
Large-scale Sucker		174	54.0	1.03					
Large-scale Sucker		175	56.5	1.05					
Large-scale Sucker		176	55.8	1.02					
Large-scale Sucker		178	59.5	1.06					
Large-scale Sucker		180	64.2	1.10					
Large-scale Sucker		182	48.7	0.81					
Large-scale Sucker		278	268.6	1.25					
Large-scale Sucker		280	296.9	1.35					
Large-scale Sucker		280	219.1	1.00					
Large-scale Sucker		294	323.6	1.27					
Large-scale Sucker		295	332.5	1.30					
Large-scale Sucker		301	364.6	1.34					
Large-scale Sucker		303	387.0	1.39					
Large-scale Sucker		303	352.5	1.27					
Large-scale Sucker		309	371.0	1.26					
Large-scale Sucker		311	436.0	1.45					
Large-scale Sucker		311	402.1	1.34					
Large-scale Sucker		311	415.6	1.38					
Large-scale Sucker		354	571.1	1.29					
Large-scale Sucker		354	582.0	1.31					
Large-scale Sucker		356	565.8	1.25					
Large-scale Sucker		363	604.8	1.26					
Large-scale Sucker		366	634.0	1.29					
Large-scale Sucker		370	695.0	1.37					
Large-scale Sucker		371	632.2	1.24					
Large-scale Sucker		402	886.0	1.36					
Large-scale Sucker		445	1176.8	1.34					