Rainbow Lake

8/7 & 8 – 1980

& 8/28/80

8-7 & 8

Length (mm)	Wt (lbs.)	Length	Wt.
208	.29	167	.14
222	.30	219	.29
195	.20	145	.10
172	.15	156	.12
182	.16	236	.46
175	.16		
172	.15		
198	.22		
196	.20		
246	.52		
137	.16		
185	.30		
142	.08		
111	.03		
198	.21		
186	.18		
185	.17		
156	.10		
225	.30		
223	.35		
201	.24		
177	.18		
196	.20		
197	.22		
155	.10		

6.28 ÷ 30 = 209

5563 ÷ 30 = 185.4

N = 30

$\bar{x}$ length = 185.4 mm

$\bar{x}$ wt = 0.21 lbs. (95.3 gms)

on 8/7 & 8/80

N = 30

$\bar{x}$ length = 245.7 mm

$\bar{x}$ wt = 0.42 lbs. (190.7 gms)

on 8/28/80

Date	No	Length (mm) Range	Length (mm) mean	Weight (gms) Range	Weight (gms) Mean
8/7&8	30	111-246	185.4	136-236.1	95.3
8/28	30	204-290	245.7	—	190.7

Rainbow Lake

W.T. = 17°C

2 gill nets set at 4 PM 8-27-80
lifted at 12:30 8-28-80

20.5 hrs. 41 total net hrs.

freq. = .02
" = .73

4 marks
26 unmarked

1 RT 585 mm 5 3/4 lbs.
30 RT 204-290 mm

RT		RT	
258	♂	235	♂
270	♀	256	♀
217	♀	233	♂
290	♀	236	♂
232	♀	260	♀
245	♂	285	♂
248	♀	235	♀
235	♀	250	♀
228	♂	240	♀
261	♂	245	♂
204	♂	242	♀
207	♂	235	♀
240	♂	222	♂
272	♂	282	♂
273	♂	235	♀

7,371 ÷ 30 = 246

4 1/4 # for 12 fish
8 1/4 # for 18 "
12 1/2 # " 30 "

pop est

$\frac{113 \times 30}{4} = 848$

Rainbow Lake
1980 RT Survival Estimate

	Marked & Released	Recaps	Capture Method
8-7-80	7	0	Seine
	2	0	"
	6	0	"
	1	0	"
	1	0	" (9PM)
	1	0	" (9:21 PM)
8-8-80	2	0	Tyke Net
	1	0	Seine
	3	0	FN
	81	5	Seine
	3	0	"
	11	2	"
	113		

108 seine
5 F.N.
113

8/28 2 gill nets captured 30 RT of which 4 were marked recaptures

$$N = \frac{113 \times 30 + 1}{4 + 1} = \frac{3503}{5} = 701$$

701 or 7% survival from 10000 stocked on 9/15/79

1980 Rainbow Lake
Talarik RT

		Length		Weight		
Date	No.	Range	Mean	Range	Mean	K
8/7&8	30	111-246	185	12.6-236.1	95.3	1.51
8/28	30	204-290	246	—	190.7	1.28

8/7&8/80 $K = \frac{95.3}{185^3} \times 10^5 = \frac{95.3}{6,331,625} \times 10^5 = 1.51$

8/28/80 $K = \frac{190.7}{246^3} \times 10^5 = \frac{190.7}{14,886,936} \times 10^5 = 1.28$

Rainbow Lake

2 Net set 9/23/82 @ 8 am } 24 hr set
picked 9/24/82 @ 8 am

48 total

Net #1 by Beaver Lodge 4 RT
Net #2 across Lake on S.E. shore 11 RT
15 RT total

of 15 RT → released 2 alive, gave 3 to Dewar & gave 1 to a fisherman at the Lake leaving a sample of 9

	ℓ (mm)	wt. (lb)	sex	Mat.	Gut
1	594	4.94	♂	small gonads Dev. Coeizidae	
2	570	5.28	♀	Mature	
3	533	4.54	♀	Mature	
4	505	3.32	♂→	Mature	
5	585	4.83	♂→	"	
6	600	6.75	♀	"	
7	600	6.75	♀	"	
8	570	5.62	♀	"	
9	587	5.18	♂→	"	

	Length (mm)			Weight (lbs)	
	No.	Range	X	Freq.	Range X
RT	15	505-600	571.6	0.31	3.32-6.75 5.25

5144

Sport Fish Division
Creel Census - ADF&G
Fairbanks

Date: 6-11-83 Time: 1435 Location: RAINBOW Lake

Anglers in Party: ____ # Resident ✓ # Non-resident: ____ # Military ____

Boat: ✓ Shore: ____ Incompete trip: ✓ Complete trip: ____

Time began fishing: ____ Time stopped fishing: ____ Hours fished: ____

Hours fished x # Anglers = ____ Total hours fished

Gear used: Fly ____, Spin ✓, Bait ✓, Troll ____, Spear ____

Weather: Cloud Cover 90% Precipitation NONE

*Water temp. ____ *Air temp. ____

Fish caught & retained ____ + Fish caught & released ____ = Total Fish 0

	Species	Length (mm)	Sex ♂ ♀	Scale Sample Taken Yes	No
1)					
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
11)					
12)					

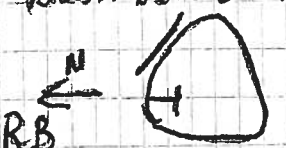
2 BOATS - 5 people (3 children)
JUST STARTED FISHING, NO FISH CAUGHT

3 people shore fishing no fish caught.

ALL LOCAL RESIDENTS

Escaped 111 Rainbow Lake 9-13-84 | 12:30 pm

netset 9-12



12 fish @ 6:30 pm

↳ males are ornature

females u immature

RB

FL	WT
218	—
212	.13 KG
246	—
228	—
206	—
234	—
236	—
248	—
212	—
240	—
228	—
243	—
224	—
230	—
210	—
226	—
244	.18
209	.10
222	.15
226	—

212	244
215	218
216	223
241	213
226	212
248	248
231	214
260	214
202	216
215	230
194	206
240	240
212	219
231	226
238	236
218	
220	
245	
222	
204	

24 11 ♀

snails

Beetles

7½ # +

Rainbow Lake

1984
Net set 7-12 @ 6:30, 1830 hrs.
Net Pick up 7-13 @ 1230 hrs
Total Net Hrs = 18 Hrs.

CATCH 56 measured
3 escaped
59 Total

Note
12 fish were checked – males mature females Immature
males/females?

	mm	(Kg)	mm	mm	kg	mm							
Lengths	218		212	244	(0.18)	226	212	244	216				
	212	(0.13)	240	209	(0.10)	248	231	218	230				
	246		228	222	(0.15)	231	238	223	206				
	228		243	226		260	218	213	290				
	206		224	212		202	220	212	219				
	234		230	215		215	245	248	226				
	236		210	216		194	222	214	236				
	8) 248		16) 226	24) 241		32) 240	40) 204	(48) 214	(56) 1/2 lb (7¼ lbs				

	Length (mm)			weight (Kg)			Freq.
age	n	Range	mean	Range	mean	n	fish/hr
I	55	194 – 260	225	0.10 – 0.18	0.115 Kg.	4	@ n = 58, 3.22
		Σ = 12391		Σn = 0.46			
V	1	610	610	7½ lbs	7½ lb.	1	0.06