ALASKA DEPARTMENT OF FISH AND GAME
DIVISION OF SPORT FISH

FISH SAMPLING SUMMARY

128 acre Lake

WATER NAME Bolio

LOCATION

DATE	TYPE GEAR	FISH SPECIES*	AGE CLASS	NUMBER IN SAMPLE	HOURS OF EFFORT	LENGTH RANGE MM	MEAN LENGTH MM	WEIGHT RANGE	FREQUENCY MEAN WEIGHT
7-23-62		SS		33		130-203			0.09
6-16-64		RT		6		221-470	333		0.13
		SS		43		127-338	244		0.93
7-16-65		RT		4		241-394	339		0.08
		SS		43		165-351	193		0.89
7-28-66		RT		2		165-178	171		0.05
		SS		47		107-318	183		1.07
7-13-67		SS		28		105-292	178		0.76
-14-68		SS		52		165-270	195		3.35
-16-70		SS	1896-66 2296-68	18		223-434	345		0.32
-25-71		SS	'68	2		363-366	365		0.03

RB — RAINBOW TROUT
BT — BROOK TROUT
SS — SILVER SALMON
CT — CUTTHROAT
LT — LAKE TROUT
DV — DOLLY VARDEN
AC — ARCTIC CHAR

SH — STEELHEAD
KS — KING SALMON
WF — WHITEFISH
SK — SUCKER
SB — STICKLEBACK
CD — COTTIDAE sp.
S — SHEEFISH

RS — RED SALMON
BB — BURBOT
GR — GRAYLING
P — PIKE
DS — CHUM SALMON
PS — PINK SALMON
K — KOKANEE

/69
G-210

Name of Lake: Bolio - 20 River System:

Location: 2½ miles southwest of Richardson Highway at Mile 260. Located on Ft. Greely Military Reservation

Position: 63° 54' N, 145° 50' W Elevation (feet): 1395

Surface Area (acres): 128 Maximum Depth (feet): 13

Water Chemistry:

Date:	3/22/72	3/19/73	7/3/73	4/5/75
Temp. (°F):			64	
D.O. (ppm):	3.0	9.0	10.0	3.4
CO_2 (ppm):		5.0		
pH:	7.0	7.0	8.5	7.0
MOA (ppm):	103	68	68	68
Hardness (ppm):	137	86	68	85

Fish Sampling Summary:

Date	No.	Species	Length (inches) Range	Length (inches) Mean	Weight (pounds) Range	Weight (pounds) Mean	Fish/ Net hr.
7/23/62	33	SS	5.2-8.0	–	–	–	.09
6/16/64	6	RT	8.7-18.5	13.1	–	–	.13
	43	SS	5.0-13.3	9.6	–	–	.93
7/16/65	4	RT	9.5-15.5	13.3	–	–	.08
	43	SS	6.5-13.8	7.6	–	–	.89
7/28/66	2	RT	6.5-7.0	6.8	–	–	.05
	47	SS	4.2-12.5	7.2	–	–	1.07
7/13/67	28	SS	4.1-11.5	7.0	–	–	.76
6/14/68	52	SS	6.5-10.6	7.6	–	–	3.35
6/17/69	6	SS	4.9-11.4	8.9	–	–	0.33
7/16/70	18	SS	8.7-18.1	13.6	.32-2.2	1.1	.86
5/25/71	2	SS	14.3-14.4	14.4	–	–	.03
8/16/72	18	SS	6.5-12.2	8.3	.15-.80	.3	9.00
7/3/73	33	SS	9.1-10.9	10.0			.87
	13	SSc	3.5-4.0	–	–	–	–
11/29/73	19	SS	3.7-11.6	6.6			.02
	1	SSc	3.8	–	–	–	
11/11/74	46	SS	6.1-18.5	9.7	.12-2.99	.89	.88
10/3/75	165	SS	3.8-4.8	–	–	–	2.29
	30	SS	7.9-13.4	9.8	–	–	.42
8/18/76	63	SS	(140-180)	(162.6)	–	–	1.45

Name of Lake: BOLIO

River System:

Location:

Position:

Elevation (feet):

Surface Area (acres):

Maximum Depth (feet):

Water Chemistry:

Date:

Temp. (°F):

D.O. (ppm):

CO_2 (ppm):

pH:

MOA (ppm):

Hardness (ppm):

Fish Sampling Summary:

Date	No.	Species	Length(inches) Range	Length(inches) Mean	Weight(pounds) Range	Weight(pounds) Mean	Fish/ Net hr.
9/9/77	38	55	206-304 8"-12"	235.7 9.3"	—	—	.90

BOLIO LAKE

1/25/60

This lake consists of 140 surface acres and is located on the Ft. Greely military reservation. In the winter of 1958-59 this area had a severe winter-kill. The test-netting on 1959 produced only 1 small Rainbow. This lake was first stocked with Rainbow in 1953. It has been stocked with Rainbow every year ~~xxxxx~~ and has had a total of 442,400 fish planted.

1- Complete physical and chemical survey.
2- Test-netting
   a- (2) 125 ft. experimental gill-nets.
   b- (2) frame sets

Bolio Lake Cont.
   c- Shore seining
3- Try to determine cause of low water levels the past two years, it might be possible that an explosion of some sort may have broken the seal in the bottom of the lake.(It is very possible that a severe winter-kill will again take place this winter, 1959-60.)
4- No stocking recommended for 1960, last years stocking consisted of 721 fish per surface acre.

Boleo Lake

III

6/20/55
E. Marvich

This lake has been fished very hard for the past month - ever since the ice left the shoreline. The fish are nice size, ranging from seven inches up to twenty inches. On gillnetting the lake, a 15½" and an 8" fish were taken. The larger fish was 22 months old, while the smaller was 11 months of age.

As you recall, Boleo was stocked for the first time in 1953. I believe we put in 10,000 fish during August. In 1954, we stocked approximately 90,000 fry during July and August. The 1953 fish are running from 14" to 20", while the 1954 fish are from 7" to 12".

We have had considerable publicity on this lake; see the four enclosed newspaper clippings.

Fishing in Boleo has been sporadic, but has held up surprisingly well. Last Friday, June 17th, George Nehrbas and his fishing partner went to the lake and caught 17 fish. Saturday and Sunday, the lake was fished very hard with about seven caught Saturday and none that I know of on Sunday. The fish were rolling in the lake, but not taking the lures. Don Kessler, Fairbanks, took five rainbows a week ago last Sunday. They measured 18", 18", 16", 16" and 14" - a beautiful catch.

The lake has been a huge success and has helped immeasurably in reestablishing our prestige in this area. I hate to see people get skunked when they drive down to fish the lake, but am also glad that the fish aren't too easy to catch.

U-3
ID-2D
FG-53

TEST-NETTING SUMMARIES

1960

Water: BOLTO LAKE
Location: Ft. Greely Area
Dates: August 30 - 31
Total Hours Fished: 36

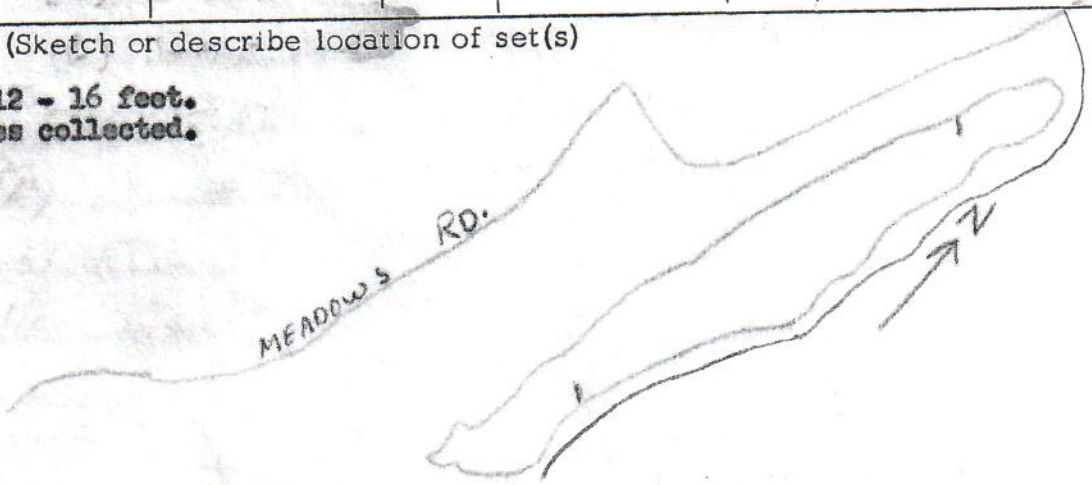
Gear Used: 2 gill-nets

Temperature, Air:
Water: 57
Weather: Partly cloudy

No.	Species	Length Range-Ave.		Weight Range-Ave.		Total Weight	Freq.	c/o Comp.
68	Rainbow	9½ - 14"	11"	½ - 2½#	1#		1.88	98.6
1	Sculpin		4½"		-		.02	1.4

REMARKS: (Sketch or describe location of set(s)

Lake depth 12 - 16 feet.
Scale samples collected.



Submitted by: McKirdy

Water temp = 60

Set #3 16 hrs

Pollio 6-16-64

Sp.	L	Wt.
RB	18.2	3.1
SS	8.5	.2
SS	9.2	.27
SS	9.1	.24
SS	9.2	.27
SS	9.2	.26
	9.4	.29
	9.8	.3
	10.0	.35
	10.2	.38
	9.3	.25
	10.1	.35
	10.2	.34
	10.5	.45
	10.5	.50
	10.5	.47
	11.2	.54
	11.5	.51
	12.0	.64
	13.0	.75
	13.3	.82

Set #1 15 hrs

Sp	L	Wt
SS	5.0	0.04
SS	9.0	.22
SS	9.0	.23
SS	8.9	.22
SS	10.0	.37
RB	8.7	.30
RB	9.4	.37
RB	9.3	.41
RB	15.0	1.56 Sp. ♀
RB	18.5	2.52 Sp. ♂

Set # 2 15 hrs

18 SS 8.5" - 11.2"

.18 - .48 lbs

Bolin Lake

May 7 to 6 Jul 70

Creel Census

Anglers	Hours	Fish	Species	Size Range (Inches)
4	24	2	SS	12-14
2	12	2		13-15
2	10	3		16-17
2		0		
2	4	6		13-17
5	12	3		13-16
2	6	3		15-16
5	10			
				12-17
22	78	19		

Fish per hr: 0.24

July 2 73

1	5	10	SS
1	5	4	SS
1			

Stocked 9-24-71

Date 12-2-71 No.
Lake or Stream Bolio L.
Species SS
Fork length 107 mm Weight
Sex ♀
Collector Hook & Line - Tendrop
Salmon egg
stomach full of Daphnia

Date 11/14/72 No. 1
Lake or Stream Bolio
Species SS Mark or Tag
Fork length 210 Weight 97.9
Sex ♀ Im.
Collector H & L

Date 11/14/72 No. 2
Lake or Stream Bolio
Species SS Mark or Tag
Fork length 217 Weight 98.5
Sex ♂ Im.
Collector H & L

Date 11/14/72 No. 4
Lake or Stream Bolio
Species SS Mark or Tag
Fork length 195 Weight 78.1
Sex ♀ Im.
Collector H & L.

Date 11/14/72 No. 3
Lake or Stream Bolio
Species SS Mark or Tag
Fork length 200 Weight 84.7
♀ Im.
Collector H & L

TEST NETTING

Water: Bolio Lake
Location: SEND ON E & W Sides
Dates: Lifted 7-16-70
Total Hours Fished: 21
Water level low

Gear Used: 2-125' Gill Net
Temperature: Air ____ Water ____
Weather: Partly Cloudy
Depth of Set: 3' to 9'

Sketch: Outline of lake, landmarks, inlets, outlets, weedbeds, public service sites, etc.

No.	Species	Length (mm)	Weight	Maturity	Degree of Maturity
19	SS	6629 (349 mm ave)	22.02 lbs (1.16 ave)	Both Nets	
18	SS	(345 ave)	(1.12 ave)	ONE NET	
net #2 1	SS	396	1.54		
		388	1.42		
		371	1.38		
		397	1.62		
		370	1.40		
		355	1.04		
		303	.75		
		325	.93		
		223	.32		
		278	.59		
		358	1.30	(No Scale Taken	
		460	2.16		
		372	1.40		
		330	0.69		
		395	1.39		
		350	0.98		
18		292	0.67		
		240	0.40		

NET NO 18(SS) Length Range 223-460 Weight Range .32-2.16

ave length: 345 mm
ave weight: 1.12 lbs

Note: Also 38 small ~~fish~~ Sculpin in net.

1033 ÷ 4 = 258 mm age II+

net #1 Net pulled and all but 1 SS removed

1 SS 425 1.84

TEST NETTING

Water: Bolio
Location: FT GREELY
Dates: Pulled 5-25-71
Total Hours Fished: 21 hrs

Gear Used: 125' GILL NET
Temperature: Air 60° Water 53°
Weather: WINDY
Depth of Set: 10' to 12'

Sketch: Outline of lake, landmarks, inlets, outlets, weedbeds, public service sites, etc.



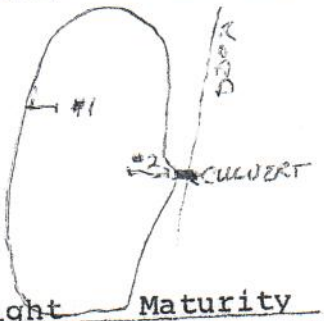
No.	Species	Length	Weight	Maturity	Degree of Maturity
I #1 — 1	SS	363	1.11	J Ripe	4 (stomach nearly empty - backswimmer)
I #2 (44 hrs) Pulled 5-26-71					
1	SS	366	1.18	J Ripe	4

TEST NETTING

Water: BOLIO
Location:
Dates: 8-16-72
Total Hours Fished: 2 NET HRS.

Gear Used: 2 125' EXP.
Temperature: Air 65° Water 65°
Weather: CLOUDY
Depth of Set: #1 5' to 10'
#2 5' →

Sketch: Outline of lake, landmarks, inlets, outlets, weedbeds, public service sites, etc.



NET #	No.	Species	Length	Weight	Maturity	Degree of Maturity (STOMACH)
#1	1	SS	298	.29	♂ TESTES FULLY DEVELOPED	PRESERVED ~~INTESTINES~~ 60mm SCULPIN & SNAIL
	2	SS	311	.80	♂ "	INTRALES SAVED (LOOKED EMPTY)
	3	SS	264	.59	♂ " NEARLY RIPE	INTRALS SAVED (LOOKED EMPTY)
	4	SS	258	.53	♂ FULLY DEVELOPED	SCULPIN
	5	SS	198	.20	♂ I ~~m~~	WHOLE FISH SAVED
	6	SS	185	.17	♂ I ~~m~~	CLAMS
	7	SS	179	.15	♂ I ~~m~~	WHOLE FISH SAVED
	8	SS	179	.15	♂ I ~~m~~	
	9	SS	175	.14	♂ I ~~m~~	
	10	SS	185	.17	♂ I ~~m~~	
	11	SS	187	.18	♂ FULLY DEVELOPED	
	12	SS	184	.15	♂ I ~~m~~	
	13	SS	187	.17	♂ I ~~m~~	
#2	*14	SS	185	.15	♂ I ~~m~~	
#1	15	SS	181	.15	♂ I ~~m~~	
#2	16	SS	268	.53	♂ FULLY DEVELOPED	
#2	17	SS	180	.16	♂ I ~~m~~	
			164	.12	♂ I ~~m~~	

ave wt. = .2

≈ 10 m a

20.28
18 | 3778 mm

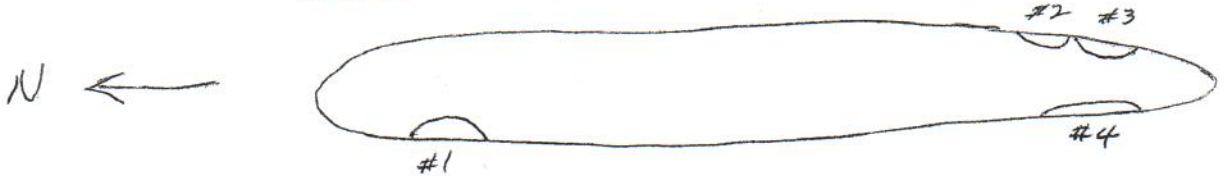
164-311 m

TEST NETTING

Water: Bolio
Location:
Dates: 6-28-72
Total Hours Fished:

Gear Used: SEINE 50' (¼" MESH)
Temperature: Air ____ Water ____
Weather: CLOUDY
Depth of Set: 3' to 4'

Sketch: Outline of lake, landmarks, inlets, outlets, weedbeds, public service sites, etc.



No.	Species	Length	Weight	Maturity	Degree of Maturity
1	SS	189	.18		
2	"	169	.12		
3	"	155	.08		
4	"	175	.18		
5	"	160	.10		
6	"	169	.10		
7	"	167	.11		
8	"	182	.14		
9	"	[illegible]	.10		
10	"	160	.10		
11	"	167	.11		
12	"	167	.12		
13	"	169	.11		
14	"	155			
15	"	187			
16	"	195			
17	"	168			
18	"	171			
19	"	180			
20	"	165			
21	"	195	.18		

3611 ÷ 21 = 172 mm

1 sculpin caught in each seine haul #1 & 4

160 SS caught in seine haul #3

caddis common in lake

NOTE: Data Totaled on Bolio up through 6-28-72

Species	#	Size Range
SS	160	150-195 mm

Stocked: 65, 66, 68, 71

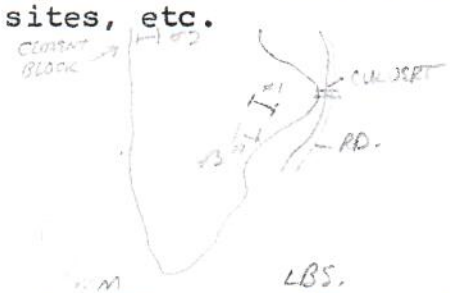
Species	Location	Date	Weight	Sex	Fork length
Silver Salmon	Bolin	6/28/72	.08		155
		" "	.10		159
		" "	.10		160
		" "	.10		160
		8/16/72	.13	♀	164
		6/28/72	.11		167
		" "	.12		169
		" "	.10		169
		8/16/72	.14	♀	175
		" "	.15	♂	179
		" "	.15	♂	179
		" "	.16	♀	180
		" "	.15	♀	181
		6/29/72	.14		182
		8/16/72	.15	♂	184
		" "	.15	♀	185
		" "	.17	♀	185
		" "	.17	♀	185
		" "	.17	♂	187
		6/29/72	.19		189
		" "	.18		193
		" "	.18		195
		8/16/72	.18	♂	197
		" "	.20	♀	198
		" "		♂	258
		" "	.59	♂	264
	over ↓	" "	.53	♂	268

TEST NETTING

Water: BOLD
Location: FT. GREELY
Dates: 7-2 — 7-3-73
Total Hours Fished: 19 HRS. 38 total net hrs.

Gear Used: 2 125' EXP
Temperature: Air ____ Water ____
Weather: CLOUDY
Depth of Set: #1: 5' to 10'
#2: 6' to 15'

Sketch: Outline of lake, landmarks, inlets, outlets, weedbeds, public service sites, etc.



NET #2

No.	Species	Length MM	Weight LBS.	Maturity	Degree of Maturity
1	SS	253	.43	♂ M. THIS FALL	—
2	SS	275	.58.	♂ m	STOMACH SAVED
3	↓	259	.48	♂ M. THIS FALL	—
4	"	250	.43	♂ im	—
5		272	.50	♂ m	—
6		264	.50	♂ m	STOMACH SAVED
7		277	.52	♂	—
8		243	.40	♂	—
9		245	.43	♂ NO 1	STOMACH SAVED (SOME EGGS SAVED)
10		257	.43	♂ EGGS SIZE OF PIN HEAD	" "
11		253	.43	♂	" "
12		260	.47	♂ LARGER EGGS	" "
13		255	.46	♂ m	NO SCALES AVAILABLE
14		264	.47	♂ m	STOMACH SAVED
15		246	.38	♂ m	—
16		232	.35	♂ im	STOMACH SAVED

TEST NETTING

Water: Bucio Cont. Gear Used: _____
Location: _____ Temperature: Air _____ Water _____
Dates: _____ Weather: _____
Total Hours Fished: _____ Depth of Set: _____ to _____

Sketch: Outline of lake, landmarks, inlets, outlets, weedbeds, public service sites, etc.

No.	Species	Length	Weight	Maturity		Degree of Maturity
17	SS	246	.37	♂		~~—~~ NO SCALES
18	↓	271	.60	♂	m	—
19		261	.47	♂	m	—
20		258	.50	♂	L. EGG DIA.	—
21		237	.40	♂	"	—
22		246	.40	♂	m	STOMACH SAVED
23		275	.56	♂	L. EGG DIA.	" "
24		274	.65	♂	m	" "
25		251	.45	♂		———
26		248	.41	♂	im	STOMACH SAVED
27		234	.34	♂	im	—
28		241	.37	♂	m	STOMACH SAVED
29		238	.42	♂		———
30		245	.41	♂		STOMACH SAVED
31		246	.41			
32		272	.46	♂	m	—
33		276	.49	♂	L. EGGS	—
	S. SCULPIN ↓	95	.02			
		96 mm				
		98 91				
		93 88				
		98 91				
		103 95				
		95 92				
		95				

TOTAL WEIGHT .28

TEST NETTING

Water: Bolio Cont'
Location:
Dates:
Total Hours Fished: 1 hr.

Gear Used: 125' ELP
Temperature: Air ____ Water ____
Weather: PARTLY CLOUDY
Depth of Set: 4' to 10'

Sketch: Outline of lake, landmarks, inlets, outlets, weedbeds, public service sites, etc.

Net # 3 set for 1 hrs. for stomach samples

NET #3

No.	Species	Length	Weight	Maturity	Degree of Maturity
34	SS	275	.51	♂	STOMACHS SAVED
35	↓	275	.55	♂ M OR FALL	SKEENS SAVED
36		262	.48	♂	FULL OF PELLETS
37		256	.48	♂ M	SKEENS CAST
38		280	.50	♂	
39		278	.52	♂ M	

TEST NETTING

Wáter: _____
Location: Bolio Lake
Dates: NOVEMBER 29, 1973
Total Hours Fished: 24 ½
49 Total net hours

Gear Used: 2-125' mono gill nets
Temperature: Air _____ Water _____
Weather: _____
Depth of Set: _____ to _____

Sketch: Outline of lake, landmarks, inlets, outlets, weedbeds, public service sites, etc.

(nets set in same locations as summer test netting)

No.	Species	Length	Weight	Maturity	Degree of Maturity
1	S.S.	97 mm			
2	"	94 mm			
3	"	96 mm.			
4	"	94 mm.	Total wt.		
5	"	106 mm.			
6	"	101 mm.	125.4 g.		
7	"	96 mm			
8	"	106 mm.			
9	"	106 mm			
10	"	99 mm			
11	Sculpin	96 mm	—		
12	S. S.	280 mm	232.4 g.		
13.	"	269 mm	229.7 g.		
14.	"	101 mm	Total wt.		
15.	"	110 mm	32.0 g.		
16.	"	285 mm	224.7 g		
17.	"	294 mm	296.0 g.		
18.	"	283 mm	265.5 g.		
19.	"	293 mm	290.8 g.		
20.	"	293 mm	268.5 g.		

set #1.

set #2.

1955 $\bar{X}$ = 3203 ÷ 19 = 168.5

Bolio Lake

3/28/74 Captured by Seine

Specie	Length (mm)					
SS	144	143	145	150	145	142
	152	144	158	144	150	147
	146	143	145	155	153	149
	149	148	140	135	151	137
	146	149	149	152	141	

4103 ÷ 29 = 141 mm

Range 135 - 158 mm

Total Weight = 2.3 lbs.

W.T. = 66°F

TEST NETTING

Water: Bolio Lake
Location:
Dates: Nov. 11, 1974
Total Hours Fished: 52 net hrs.
Set 1:30 & 2:30 PM Lifted 4 PM 12th

Gear Used: 2 - 125' Gill Nets
Temperature: Air ____ Water ____
Weather:
Depth of Set: ____ to ____

Sketch: Outline of lake, landmarks, inlets, outlets, weedbeds, public service sites, etc.

46 SS (156 - 469 mm) { 28 156 - 228 mm; 18 240 - 469 mm

NET #1

marked / unmarked

No.	Species	Length mm	Weight LB.	Maturity	Degree of Maturity 10	15
1	SS	201	.24			
2	"	189	.16			
3	"	215	.25			
4	"	195	.18			
5	"	195	.19			
6	"	162	.12			
7	"	165	.14			
8	"	207	.26			
9	"	178	.16			
10	"	171	.15			
11	"	181	.16			
12	"	191	.20			
13	"	192	.22			
14	"	196	.19			
15	"	183	.16			
16	"	188	.19			
17	"	156	.13			
18	"	188	.19			
19	"	178	.15			
20	"	182	.16			
21	"	168	.14			
22	"	210	.26			
23	"	210	.24			
24	"	122 X	.15	m ♂		
25	"	228	.34	m ♂		
26	"	240	.44	m ♂		
27	"	268	.58	m ♂		
28	"	345	1.32	m ♀		
29	"	393	1.78	m ♀		
30	"	405	1.88	m ♀		
31	"	445	2.33	m ♀		

4103

- FOOD IN STOMACH

(OVER)

34	"	195	.21		marked #2 ↓
35	"	177	.15		Marks
36	"	350	1.12	m ♂	
37	"	181	116		unmarked
38	"	401	2.14	m ♀	
39	"	384	1.68	m ♂	
40	"	400	1.68	m ♀	
41	"	430	2.54	m ♀	
42	"	445	2.52	m ♀	
43	"	469	2.99	m ♀	
44	"	446	2.60	m ♀	
45	"	440	2.20	m ♀	
46	"	441	2.64	m ♀	

ave wt - 4655 = .89

6530 ÷ 19 = 343 mm

5794 ÷ 16 = 362 (345-469)

5026 ÷ 27 = 186 mm

5534 ÷ 30 = 184 3055 (156-268)

4655 $\bar{x}$ = 246.3

Bolio L.

		UNMARKED	MARKED
6/5/74	10 SEINE HAULS	306 S.S.	0
6/6/74	4 " "	1 SS	1
6/11/74	7 " "	765 SS	6
6/28/74	3 " "	194 SS	35
	Total	1266 SS	42
6/28/74	2 Fyke Nets	2036 SS	174
7/31/74	2 " "	269 SS	116
		2479 SS	290

Pop Est.

			Pop
6/28/74	SEINE HAULS	$\frac{1072 \times 229}{35}$ =	7014
6/28/74	Fyke Nets	$\frac{1072 \times 2210}{174}$ =	13616
7/31/74	Fyke Nets	$\frac{3302 \times 385}{116}$ =	10959
		$\frac{3108 \times 385}{116}$ =	10,315

Table 2. Estimated Population of Stocked Fish in Two Interior Alaska Lakes, 1974.

Date	No. Marked Prior to Est.	Sample Method	Total Examined	Recaptures	Population Estimate	Percent Survival
Bolio Lake - Age I+ Silver Salmon						
June 11	307	Seine	577	6	29,523	100+
June 28	1,072	Seine	229	35	7,014	69
June 28	1,072	Fyke net	2,210	174	13,616	100+
July 31	3,302	Fyke net	385	116	10,959	100+
Sept. 4	3,571	Boat shocker*	308	112	9,820	97
Nov. 11	3,571	Under Ice Gill Net	~~28~~ 30	12	8,332	82
Little Donna Lake - Age 0+ Rainbow Trout						
Sept. 13	564	Seine	395	45	4,951	30
Sept. 25	1,346	Seine	707	331	2,875	18

*Approximately 2.5 hours of shocking during darkenss with one dip netter.

Tolio Lake

Date	Capture Method	Number of Fish Captured: Unmarked*	Marked	Total Marked†
6/5/74	10 Seine Hauls	306	0	306
6/6/74	4 " "	1	0	307
6/11/74	7 " "	765	6	1072
6/28/74	3 " "	194	35	1266
6/28/74	2 fyke nets	2036	174	3302
7/31/74	2 " "	269	116	3571
9/4/74	Boat Shocking	196	112	3571

† All unmarked fish up through 7/31/74 were given an adipose fin clip.

Estimate Date

6/11/74 $N = \frac{307 \times 577}{6} = 29,523$

6/28/74 $N = \frac{1072 \times 229}{35} = 7,014$ (69% of 10,120 stocked) Seine (2,210 fish captured in fyke net)

6/28/74 $N = \frac{1072 \times 2210}{174} = 13,616$ (mean length of 29 55 = 141. Rg. = 135 - 158 mm.

7/31/74 $\frac{3302 \times 385}{116} = 10,959$

Updated 9/4/74 $\frac{3571 \times 308}{112} = 9,820$ (97% of 10,120 stocked 7/13/73

(OVER)

Under Ice gill netting 11/11/74

12 marked and 16 unmarked (156-228 mm) in 2 gill net samples

$$N = \frac{3571 \times 28}{12} = 8,332$$

Bolio L.

		Unmarked	Marked
6/5/74	10 seine hauls	306 ss.	0
6/6/74	4 " "	1 ss	1
6/11/74	7 " "	765 ss	6
6/28/74	3 " "	194 ss	35
	Total	1266 ss	42
6/28/74	2 Fyke Nets	2036 ss	174
7/31/74	2 " "	269 ss	116
		2479 ss	290

Pop Est.

			Pop
6/28/74	Seine Hauls	$\frac{1072 \times 229}{35.} =$	7014.
6/28/74	Fyke Nets	$\frac{1072 \times 2210}{174} =$	13616
7/31/74	Fyke Nets	$\frac{3302 \times 385}{116} =$	10959
		$\frac{3108 \times 385}{116} =$	10,315

TEST NETTING

Water: Bolio L. Gear Used: 3- 125' Gill Nets
Location: Temperature: Air ____ Water ____
Dates: 10-3-75 Weather: ____
Total Hours Fished: 24 net hrs. Depth of Set: 6 to 8'
72 total net hrs.

Sketch: Outline of lake, landmarks, inlets, outlets, weedbeds, public service sites, etc.

No.	Species	Length	Weight	Maturity	Degree of Maturity
		Age 0+	Age II		
Net #1 (Green)	SS	79	27		
Net #2 (White)	SS	66	1		
Net #3 (White)	SS	20	2		
11 Adipose Clipped Fish & 19 Non Marked fish Captured (Age I Total of 30					Age II captured
	SS	246 mm			
		271			
		273		Scale	
		283 Adipose		Samples	
		295			
		322			
		332			
		341			
		326			
		247		223 mm	
		200		222	
		216		230	
		225		229	
		236		225	
		239		206	
		214		255	
		225		Total 30 SS	
		212			
		223			
		219			
		265			
		219			
		230			

$\bar{X}$ = 248.4 mm
Range = 200 - 341 mm

165 Age 0+ SS (96-122 mm)
30 / 16.

TEST NETTING

Water: Bolio
Location:
Dates:
Total Hours Fished:

Gear Used: 4 Fyke Nets
Temperature: Air ____ Water ____
Weather:
Depth of Set: ____ to ____

Sketch: Outline of lake, landmarks, inlets, outlets, weedbeds, public service sites, etc.

No.	Species	Length	Weight	Maturity	Degree of Maturity
7-6-75	55	~~56~~	captured	♂ dorsal fin clipped.	
7-30-75	55	south net on East side	11	captured ♂ 5 were adipose clips.	dorsal clipped
	↓	middle net east side	76	captured ♂ 31 were adipose clips	dorsal clipped
			3	recaptures	
		north net ~~east~~ side	5	captured ♂ 1 was adipose clip	dorsal clipped
			1	recapture	
		north net west side	73	captured ♂ 26 were adipose clips	dorsal clipped
			1	recapture	
			2	mortalities	

totals 221 dorsal clips
63 out of 165 had adipose clipped

Cloudy

Bolio L. W.T. 63°F

2 gill nets set at 1 PM 8/19/76

lifted @ 10:30 AM 8/18/76

Total Net Hrs. = 43.5

Silver Salmon

Lengths			
158	159	160	166
169	164	155	158
163	158	159	158
177	164	172	160
154	159	176	163
163	160	165	161
154	157	163	165
157	166	157	164
158	158	153	163
171	166	148	160
			164
			158

42 in gill net #2

Lengths		
170	178	159
180	165	
164	156	
167	167	
163	162	
177	151	
178	172	
159	157	
156	159	
163	156	

21 in gill net #1

	No.	Length (mm) Length Range	$\bar{x}$	Freq.
SS	63	148 - 180	162.6	1.45

Bolio LK.

Tent netting 1977, 9/9/77

(55) fish/net hr. = .90

274	♂ MAT	2+
275	♀ IMM	2+
304	♂ MAT	2+
206	♀ IMM	2+
218	♀ devel.	———
231	♀ IMM	2+
246	♂ MAT.	
244	♂ MAT.	
230	— IMM	
239	♀ IMM	
224	♀ IMM	
221	♀ IMM	
239	♂ MAT	
240	♂ MAT	
238	♀ IMM	
221	♀ IMM	
236	— IMM	
230	♀ IMM	
228	♀ IMM	
223	— IMM	
231	— IMM	
232	♀ IMM	
224	— IMM	
230	♀ IMM	
224	♂ MAT	

240	♂ IMM	
229	♂ IMM	
238	♂ MAT	
238	♂ MAT	
245	♂ IMM	
230	♀ IMM	
250	— IMM (Swaito)	
222	♀ IMM (Swaito)	
225	♂ IMM	
232	♀ IMM	
228	♀ devel	
241	♂ MAT	
231	♀ IMM devel.	

	Range	$\bar{x}$
N = 38	206-304	235.7

9/7/78

Net Set @ 10:00 AM
Lifted @ 10:00 AM
48 total net hrs

Bolio L.

S, S

Length	Wt.	Sex	
204	.22	♂	Im
344	1.03	♀	M.
260	.52	♀	Im
296	.58	♀	Im
310	.94	♂	M
286	.72	♂	M
314	.90	♂	M

Specie	No.	Age	Length Range	$\bar{x}$
SS	1	I	204	
SS	6	III	260-344	302

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Bolio Lake

7-27-82
2 Hydro nets set at east side North end at 3 PM

7-28-82
8:30 AM Nets lifted
No fish
W.T. = 17°C

Also gill netted in Lake Corg. - no fish

D.O. readings reported by
Ken Spires 2-5-86

S. Twin	6.0	ppm	Snow blown	866	
N. Twin	11.0		"	"	"
Mark	9.0		"	"	"
Bolio	8.0		Snow covered		