BUCET 1

EXPERIMENTAL NET SET RECORD

SET NO. 1 LAKE SHORT PINE LOCATION OF LAKE NORTH KENAI

WEATHER CLEAR LOCATION OF SET (station) 1

TEMP. AIR 49 ° F WATER (surf.) 54 ° F TYPE OF BOTTOM GRAVEL

WATER (bottom) ° TYPE OF SET: FLOATER: DIVER: X

NET TYPE GILL LENGTH 125' SET: TIME 1030 AM DATE 9/24/73

MESH SIZE 3/4-2" DEPTH 6' LIFT: TIME 1130 AM DATE 9/25/73

OBSERVER W. JOHNSON DEPTH OF SET (diver) 6 ft. to 20 ft

BOTTOM DEPTH (floater)

REMARKS SHALLOW END MESH SIZE 3/4

1.55 1.07 1.48 weight

	Species	mm L	lbs. W	Sex	Stomach Scale No.	Species	L	W	Sex	Scale No.
1	RB	140		UNK	SHRIMP					
2		135		"	SHRIMP					
3		150		"	—					
4		155		"	SHRIMP					
5		145		"	SHRIMP					
6										
7										
8	mean	145	.09615							
9										
10	Range	135-155								
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
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26										
27										
28										
29										
30										
31										
32										
33										
34										
35										

BUCKET 2

EXPERIMENTAL NET SET RECORD

SET NO. 2 LAKE SHORT PINE LOCATION OF LAKE NORTH KENAI

WEATHER CLEAR LOCATION OF SET (station) 2

TEMP. AIR 49 °F WATER (surf.) 59 °F TYPE OF BOTTOM GRAVEL

WATER (bottom) ____ ° TYPE OF SET: FLOATER: X DIVER: ____

NET TYPE GILL LENGTH 125' SET: TIME 1030 AM DATE 9/24/73

MESH SIZE 3/4 - 2" DEPTH 6' LIFT: TIME 1130 AM DATE 9/25/73

OBSERVER W. DONOHOE DEPTH OF SET (diver) ____ ft. to ____ ft

BOTTOM DEPTH (floater) 6

REMARKS ____ SHALLOW END MESH SIZE 3/4"

3.66 1.09 3.57 weight

	Species	mm L	lbs W	Sex	STOMACH ~~Scale No.~~	Species	mm L	lbs. W	Sex	STOMACH ~~Scale No.~~
1	RB	130		UNK	SHRIMP	RB	115		UNK	COP.
2		130		"	SHRIMP & COP.		125		"	SHRIMP + COP
3		120		"	SHRIMP		110		"	COP
4		170		"	SHRIMP & LEECHES		110		"	SHRIMP & COP
5		125		"	LEECH		120		"	A. INSECTS
6		110		"	SHRIMP		125		"	—
7		135		"	—		115		"	COP & A. INSECTS
8		120		"	SHRIMP & COP.		105		"	SHRIMP
9		145		"	LEECHES		100		"	COP.
10		120		"	SHRIMP		100		"	—
11		120		"	—		120		"	SHRIMP + COP
12		130		"	SHRIMP		100		"	—
13		130		"	SHRIMP + COP.		105		"	LEECH
14		115		"	SHRIMP		115		"	COP.
15		100		"	SHRIMP & COP.		110		"	SHRIMP + COP.
16		120		"	SHRIMP + COP.		105		"	COP.
17		110		"	SHRIMP		105		"	SHRIMP
18		125		"	SHRIMP & A. INSECTS					
19		130		"	SHRIMP + COP.					
20		120		"	COP.					
21		110		"	SHRIMP + COP	mean	115.38	.049		
22		130		"	SHRIMP + COP					
23		125		"	SHRIMP + COP	range	100-170			
24		110		"	COP & A. INSECTS					
25		115		"	COP.					
26		110		"	SHRIMP + COP.					
27		100		"	—					
28		105		"	SHRIMP + COP					
29		125		"	SHRIMP					
30		110		"	COP.					
31		125		"	SHRIMP + COP					
32		120		"	SHRIMP + COP					
33		115		"	COP & A. INSECTS + SHRIMP					
34		100		"	SHRIMP					
35		110		"	SHRIMP					

EXPERIMENTAL NET SET RECORD

SET NO. 1-6 LAKE Shaft Pond LOCATION OF LAKE

WEATHER Clear - windy LOCATION OF SET (station)

TEMP. AIR ° WATER (surf.) ° TYPE OF BOTTOM

WATER (bottom) ° TYPE OF SET: FLOATER: DIVER: ✓

NET TYPE gill LENGTH 150 SET: TIME 2:30 PM DATE 10/3

MESH SIZE Variable DEPTH LIFT: TIME 11:30 AM DATE 10/4/74

OBSERVER Kalb, Howes DEPTH OF SET (diver) ft. to ft

BOTTOM DEPTH (floater)

REMARKS 6 nets SHALLOW END MESH SIZE

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
10/3 1	RB	212	—	M♂	RV	RB	224	1.22	I-	LV
10/4 2	RB	355	1.50	♂D	LV		345	1.15	I-	LV
3		356	1.32	♂	RV		308	1.03	I-	LVA
4		361	1.42	♀	RV		295	.80	I-	RV
5		358	1.50	♂D	LV		342	1.10	I♂	RV
6		372	1.62	♀	LV		360	1.32	♀	LV
7		342	1.44	♂	RV		380	1.54	♂D	LV
8		350	1.50	♂	RV		345	1.24	I♂	RV
9		360	1.50	♀	RV		336	1.15	♀	LV
10		350	1.30	♀	RV		362	1.60	M♂	LV
11		386	1.52	♀D	NV		340	1.24	♂D	RV
12		332	1.35	M♂	RV		340	1.18	♂	RV
13		347	1.40	♀	LV		325	1.00	♂-	RV
14		322	1.15	♀	LV		316	.98	I♂	LV
15		350	1.56	M♂	LV	V	320	1.06	I-	
16		322	.97	♂	LV	SS	262	—	—	—
17		346	1.40	♀	LV	SS	220	.82	—	RVA
18		335	1.30	♂	LV	SS RS	261	.70	—	LVA
19		328	1.18	♂	LV	RB RS	260	.66	—	LVA
20		325	1.10	♀	LV	SS	195	—	—	
21		278	.76	I♀	LVA	SS	225	.84	—	NVA
22		295	.84	I♂	NVA	SS	208	.27	—	— NC
23		323	1.14	I-	LV	SS	237	.42	—	NVA
24		345	1.20	I-	LV	SS	220	.32	—	NC
25		356	1.30	♀	LV	SS	205	.27	—	— NC
26		330	1.28	M♂	RV	SS	206	.26	—	— NC
27		358	1.28	♀	LV	SS	206	.26	—	NC
28		346	1.28	♀	LV	SS	202	.24	—	— NC
29		318	1.10	♀	LVA	SS	195	.22	—	NVA
30		309	.94	I♀	RVA					
31		265	.72	I-	RVA					
32		310	.90	♀	LVA					
33		344	1.20	♀	LV					
34		342	1.22	I-	LV					
35	✓	332	1.30	I♂	LV					

Continuation sheet for

EXPERIMENTAL NET SET RECORD

Cond. 38

~~SET NO.~~ _____ LAKE Short Pine (Timmore) DATE OF LIFT 5/20/74

Electro-Fishing

	Species	L	W	Stomach ~~Species~~	L	mark ~~#~~	Species	L	W	Species	L	W
1	Rainbow	202	.20	Shrimp		none	Rainbow RV	190	.18	Rainbow RV	140	.08
2		187	.15	Shrimp, Leaches		none	RV	190	.18	RV	138	.08
3		175	.18	shrimp		none	RV	190	.18	RV	130	.08
4		130	.07	shrimp		none	RV	190	.17	RV	130	.08
5							RV	187	.18	RV	110	.05
6		262	.41	shrimp		LV	RV	185	.18			
7		222	.33	Leaches + Shrimp		LV	RV	185	.18			
8		212	.27	Shrimp + Leaches		LV	RV	185	.18			
9		205	.22	Shrimp		LV	RV	185	.17			
10		205	.20	Shrimp		LV	RV	180	.15			
11		195	.22	shrimp		LV	RV	180	.16			
12		195	.20			LV	RV	180	.16			
13		190	.18			LV	RV	175	.16			
14		180	.16			LV	RV	170	.15			
15		180	.18	shrimp		LV	RV	170	.14			
16		175	.16			LV	RV	170	.12			
17		175	.16			LV	RV	168	.14			
18		170	.15	shrimp + Lns		LV	RV	165	.15			
19		170	.15	shrimp		LV	RV	165	.13			
20		170	.15			LV	RV	160	.14			
21		170	.13			LV	RV	160	.13			
22		165	.14			LV	RV	160	.12			
23		160	.14			LV	RV	155	.12			
24		150	.10			LV	RV	155	.11			
25		135	.08			LV	RV	155	.10			
26							RV	145	.10			
27		235	.26			RV	RV	145	.10			
28		212	.22			RV	RV	145	.10			
29		200	.24			RV	RV	145	.10			
30		200	.22			RV	RV	145	.10			
31		195	.20			RV	RV	145	.10			

no mark	4	130 - 202mm	173.5mm	.07 - .201b.	.151b
LV	20	135 - 262mm	184.3mm	.08 - .411b.	.187 lb
RV	41	110 - 235mm	168.9	.05 - .261b	.144 lb

(LV Ennis, mont
RV Winthrop WASH)

02-001B

STATE
of ALASKA

MEMORANDUM

TO: Steve Hammerstrom
Fishery Biologist
ADF&G, Soldotna

DATE : July 9, 1974

FROM: Carl Kalb CK
Fishery Biologist
ADF&G, Palmer

SUBJECT: Short Pine Lake Data

I have summarized the Short Pine data to date for inclusion in your files.

Catch Summary

5/20/74 Electro-shocking - released un-marked
RV - 41
LV - 20
No V Mark - 4

5/21/23/74 Electro-shocking - adipose marked and released.
RV - 187
LV - 167
No V Mark - 12

TOTAL 366, 21 mortality - 5.7%

5/28-30/74 Electro-shocking - recapture effort

RV - 100	Ad-RV - 51	Mortalities	
LV - 82	Ad-LV - 46	~~Ad-RV - 4~~	
No V Mark - 7	Ad-No V Mark- 3	Ad-LV - 3	
Sub Total - 189	Sub Total -100	Other - 3	
TOTAL 289	~~Sub Total 100~~	Total Mortality 18, 6.2%	

Marked fish in lake as of 5/30/74

Ad- RV - 183	Ad- Caudal RV-95	
Ad-LV -164	Ad-Caudal LV-76	
Ad-No V Mark - 12	Ad-Caudal No V-Mark- 7	
Sub Total - 359	Sub Total - 177	Total - 536

6/12 Gill Netting

RV - 84	Ad-Rv - 3	
LV - 113	Ad-LV -4	
No V Mark - 4		
Sub Total - 201	Sub Total - 7	Total - 208

6/19 Electro-shocking

RV - 7	Ad-Caudal RV - 4		
LV - 5	Ad-Caudal LV - 4		
Sub Total -12	Ad-RV - 10		
	Ad-LV - 3		
	Ad-Cau No V Mark - 2		
	Sub Total 23	Total	-35

SIZE SUMMARY

Date	Mark	Range	Mean	Standard Deviation	Sample Sizes
5/20	RV	110-235	169	25	41
	LV	135-262	184	28	20
5/30	RV	112-238	180	24	99
	LV	130-268	188	28	82
	Ad RV	145-215	181	18	51
	Ad LV	126-270	192	30	46
6/12	RV	145-290	211	27	84
	LV	165-280	224	25	113

A population estimate using data from 5/28-30 gives 1,050. The estimate using the gill net data is 14,000 which I believe we can pretty much discard. The graph I've included shows that the gill nets were sampling a small percentage of the total marked population due to size selectivity.

The population estimate of 5/28-30 may still be low but I believe it to be close to the actual number in the lake. Hopefully, later sampling will clear up the puzzle.

length - frequency - Shell Size
electro-shocker
gill net
adipose clipped

EXPERIMENTAL NET SET RECORD

SET NO. 1-6 LAKE Tirmore (Shot Pine) LOCATION OF LAKE North Kenai

WEATHER Rain LOCATION OF SET (station) 3 on one side 3 on other

TEMP. AIR ____° ____ WATER (surf.) ____° ____ TYPE OF BOTTOM gravel & mud

WATER (bottom) ____° ____ TYPE OF SET: FLOATER: 3 DIVER: 3

NET TYPE variable mesh gill LENGTH 125' SET: TIME 1300 DATE 9-10-75

MESH SIZE ¼" = 2" DEPTH ____ LIFT: TIME 1300 DATE 9-11-75

OBSERVER Bethe & Hubbart DEPTH OF SET (diver) ____ ft. to ____ ft

BOTTOM DEPTH (floater) ____

REMARKS no nets set in middle of lake SHALLOW END MESH SIZE ____

	Species	L	W	Sex	Scale No.	foregut ~~Species~~	Fin Clips	W	Sex	Scale No.
1	Rainbow	461	2.92	♀imm	—	empty	LV			
2	"	478	3.09	♀imm	—	fish	RV			
3	"	372	1.68	"	—	empty	ADLV			
4	"	371	1.88	"	—	shrimp	ADRV			
5	"	420	2.27	♂imm	—	fish	LV			
6	"	448	2.81	♀imm	—	empty	ADRV			
7	"	470	2.93	♂imm	—	shrimp	RV			
8	"	426	2.26	♀imm	—	empty	LV			
9	"	348	1.72	♀imm	—	shrimp	ADRV			
10	"	447	2.55	♂ "	—	"	LV			
11	"	434	2.50	♂ "	—	"	LV			
12	"	436	2.48	♀ "	—	empty	LV			
13	"	440	2.43	♂ "	—	"	LV			
14	"	486	3.54	♀ "	—	shrimp	LV			
15	"	419	2.08	♂ "	—	empty	—			
16	"	451	2.86	♀ "	—	empty	LV			
17	"	465	2.72	♀ "	—	shrimp	RV			
18	"	370	3.72	♂ "	—	shrimp	ADLV			
19	"	407	2.28	♂ "	—	EMPTY	LV			
20	"	450	2.40	♂ "	—	shrimp	LV			
21	"	430	2.42	♂ "	—	shrimp	LV			
22	"	468	3.03	♀ "	—	EMPTY	LV			
23	"	440	2.09	♂ "	—	EMPTY	LV			
24	"	475	3.07	♀ "	—	shrimp	—			
25	"	405	2.26	♀ "	—	shrimp	LV			
26	"	430	2.84	♀ "	—	shrimp	LV			
27	"	465	2.88	♀ "	—	EMPTY	LV			
28	"	450	3.08	♂ "	—	FISH-LARGE	LV			
29	"	465	3.16	♂ "	—	fish	RV			
30	"	442	2.20	♂ "	—	EMPTY	LV			
31	"	458	2.90	♂ "	—	EMPTY	RV			
32	"	377	3.10	♂ "	—	shrimp	LV			
33	"	465	3.01	♀ "	—	EMPTY	RV			
34	"	445	2.48	♂ "	—	EMPTY	—			
35	"	438	2.57	♀ "	—	shrimp	LV			

0.42
4.28
5.02
4.56
2.62

EXPERIMENTAL NET SET RECORD

SET NO. 1-6 LAKE Tilmore (Flint Pine) LOCATION OF LAKE

WEATHER Rain LOCATION OF SET (station)

TEMP. AIR ° WATER (surf.) ° TYPE OF BOTTOM

WATER (bottom) ° TYPE OF SET: FLOATER: DIVER:

NET TYPE Variable gill LENGTH 125' SET: TIME DATE

MESH SIZE ¼-2" DEPTH LIFT: TIME DATE 9/11/75 Cont

OBSERVER BGH DEPTH OF SET (diver) ft. to ft

BOTTOM DEPTH (floater)

REMARKS SHALLOW END MESH SIZE

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1	R.B.	135								
2	"	135								
3		165								
4		172								
5		135								
6		125								
7		140								
8		150								
9		115								
10		130								
11		148								
12		150								
13		130								
14		98								
15		150								
16		141								
17		138								
18		142								
19		149								
20		127								
21		148								
22		125								
23		148								
24		134								
25		124								
26		136								
27		140								
28		142								
29		136								
30		144								
31		114								
32		108								
33		134								
34		142								
35		134								

EXPERIMENTAL NET SET RECORD

SET NO. _____ LAKE Tirmore LOCATION OF LAKE _____

WEATHER _____ LOCATION OF SET (station) _____

TEMP. AIR _____° WATER (surf.) _____° TYPE OF BOTTOM _____

WATER (bottom) _____° TYPE OF SET: FLOATER: _____ DIVER: _____

NET TYPE _____ LENGTH _____ SET: TIME _____ DATE _____

MESH SIZE _____ DEPTH _____ LIFT: TIME _____ DATE 9/11/75 Corr

OBSERVER _____ DEPTH OF SET (diver) _____ ft. to _____ ft

BOTTOM DEPTH (floater) _____

REMARKS _____ SHALLOW END MESH SIZE _____

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1	RB	146								
2		140								
3		124								
4		138								
5		145								
6		148								
7		141								
8		164								
9		144								
10		148								
11		142								
12		157								
13		146								
14		140								
15		129								
16		142								
17		148								
18		127								
19		146								
20		140								
21		129								
22		145								
23		132								
24		141								
25		140								
26		150								
27		152								
28		151								
29		155								
30		154								
31		136								
32		145								
33		140								
34		155								
35		132								

EXPERIMENTAL NET SET RECORD

SET NO. _____ LAKE Tirmat LOCATION OF LAKE _____

WEATHER _____ LOCATION OF SET (station) _____

TEMP. AIR _____° WATER (surf.) _____° TYPE OF BOTTOM _____

WATER (bottom) _____° TYPE OF SET: FLOATER: _____ DIVER: _____

NET TYPE _____ LENGTH _____ SET: TIME _____ DATE _____

MESH SIZE _____ DEPTH _____ LIFT: TIME _____ DATE 9/11/75 cont

OBSERVER _____ DEPTH OF SET (diver) _____ ft. to _____ ft

BOTTOM DEPTH (floater) _____

REMARKS _____ SHALLOW END MESH SIZE _____

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1		100								
2		134								
3		138								
4		129								
5		159								
6		133								
7		127								
8		130								
9		145								
10		130								
11		138								
12		128								
13		139								
14		110								
15		115								
16		154								
17		109								
18		144								
19		154								
20		128								
21		112								
22		139								
23		120								
24		157								
25		154								
26		131								
27		141								
28		132								
29		139								
30		99								
31		106								
32		149								
33		145								
34		142								
35		123								

EXPERIMENTAL NET SET RECORD

SET NO. _____ LAKE Tilmore LOCATION OF LAKE _____

WEATHER _____ LOCATION OF SET (station) _____

TEMP. AIR _____° WATER (surf.) _____° TYPE OF BOTTOM _____

WATER (bottom) _____° TYPE OF SET: FLOATER: _____ DIVER: _____

NET TYPE _____ LENGTH _____ SET: TIME _____ DATE _____

MESH SIZE _____ DEPTH _____ LIFT: TIME _____ DATE 9/11/75 Cont

OBSERVER _____ DEPTH OF SET (diver) _____ ft. to _____ ft

BOTTOM DEPTH (floater) _____

REMARKS _____ SHALLOW END MESH SIZE _____

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1		143								
2		144								
3		150								
4		122								
5		140								
6		111								
7		115								
8		147								
9		141								
10		140								
11		140								
12		139								
13		103								
14		157								
15		120								
16		141								
17		126								
18		139								
19		124								
20		136								
21		156								
22		140								
23		117								
24		112								
25		129								
26		155								
27		145								
28		140								
29		130								
30		188								
31		125								
32		123								
33		107								
34		113								
35		115								

EXPERIMENTAL NET SET RECORD

SET NO. _____ LAKE Timor LOCATION OF LAKE _____

WEATHER _____ LOCATION OF SET (station) _____

TEMP. AIR _____° WATER (surf.) _____° TYPE OF BOTTOM _____

WATER (bottom) _____° TYPE OF SET: FLOATER: _____ DIVER: _____

NET TYPE _____ LENGTH _____ SET: TIME _____ DATE _____

MESH SIZE _____ DEPTH _____ LIFT: TIME _____ DATE 9/11/75 cwt

OBSERVER _____ DEPTH OF SET (diver) _____ ft. to _____ ft

BOTTOM DEPTH (floater) _____

REMARKS _____ SHALLOW END MESH SIZE _____

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1		123	~~135~~							
2		140								
3		118								
4		124								
5		129								
6		110								
7		129								
8		128								
9		150								
10		140								
11		112								
12		125								
13		111								
14		110								
15		129								
16		150								
17		160								
18		140								
19		116								
20		96								
21		153								
22		155								
23		112								
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										

EXPERIMENTAL NET SET RECORD

SET NO. _____ LAKE Tilmore LOCATION OF LAKE _____

WEATHER _____ LOCATION OF SET (station) _____

TEMP. AIR _____° WATER (surf.) _____° TYPE OF BOTTOM _____

WATER (bottom) _____° TYPE OF SET: FLOATER: _____ DIVER: _____

NET TYPE _____ LENGTH _____ SET: TIME _____ DATE _____

MESH SIZE _____ DEPTH _____ LIFT: TIME _____ DATE 9/11/75 cont

OBSERVER _____ DEPTH OF SET (diver) _____ ft. to _____ ft

BOTTOM DEPTH (floater) _____

REMARKS _____ SHALLOW END MESH SIZE _____

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1	RB	128								
2		150				n=198				
3		107								
4		110				Σx = 26639				
5		139								
6		131				Σx^2 = 3629511				
7		98								
8		128				$\bar{x}$ = 134.54				
9		115								
10		150				s = 15.26				
11		137								
12		140				s^2 = 232.94				
13		130								
14		117								
15		97								
16		116								
17		140								
18		128								
19		145								
20		152								
21		141								
22		135								
23		146								
24		135								
25		134								
26		140								
27		141								
28		139								
29		145								
30		156								
31		135								
32		129								
33		155								
34		150								
35		136								

EXPERIMENTAL NET SET RECORD

SET NO. _____ LAKE Shoal Pine 1975 LOCATION OF LAKE _____

WEATHER _____ LOCATION OF SET (station) _____

TEMP. AIR _____° _____ WATER (surf.) _____° _____ TYPE OF BOTTOM _____

WATER (bottom) _____° _____ TYPE OF SET: FLOATER: _____ DIVER: _____

NET TYPE _____ LENGTH _____ SET: TIME _____ DATE _____

MESH SIZE _____ DEPTH _____ LIFT: TIME _____ DATE 9/11/75 cont

OBSERVER _____ DEPTH OF SET (diver) _____ ft. to _____ ft

BOTTOM DEPTH (floater) _____

REMARKS _____ SHALLOW END MESH SIZE _____

108.27

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1		420	2.40	♂ im	—	shrimp	WILD			
2		460	2.74	♂ II	=	EMPTY	RV			
3		425	2.36	♀ II	=	shrimp	RV			
4		470	3.64	♂ II	—	shrimp	——			
5		420	2.07	♂ II	—	EMPTY	LV			
6		465	2.80	♂ II	—	shrimp	LV			
7										
8										
9			n=41							
10			Σx 108.27							
11			Σx² 78.13							
12			$\bar{x}$ = 0.64							
13			s = .48							
14										
15			Range							
16			3.64 - 1.72							
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										

Σx 1792c s 33.4 348 - 82 13.7" - 19.1"
Σx² 78822.36 s² 1115.9 437.2 17.2"
$\bar{x}$ 437.2

Upstream Cond 150 micro mos/cm

EXPERIMENTAL NET SET RECORD

SET NO. _____ LAKE Tirmore Shot Pine LOCATION OF LAKE North Maine

WEATHER Rain LOCATION OF SET (station) _____

TEMP. AIR _____° _____ WATER (surf.) _____° _____ TYPE OF BOTTOM _____

WATER (bottom) _____° TYPE OF SET: FLOATER: _____ DIVER: _____

NET TYPE Electro Fish. 300VAC 2.0Amps LENGTH _____ SET: TIME _____ DATE _____

MESH SIZE _____ DEPTH _____ LIFT: TIME / _____ DATE 10/13/75

OBSERVER _____ DEPTH OF SET (diver) _____ ft. to _____ ft

BOTTOM DEPTH (floater) _____

REMARKS _____ SHALLOW END MESH SIZE _____

Cold in 0.7 hrs shocking CPUE = 71

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1	RB	170	.15			RB	128	.07		
2		180	.19				137	.08		
3		196	.21				115	.06		
4		183	.17				143	.10		
5		162	.12				105	.05		
6		178	.20				110	.06		
7		159	.16				187	.08		
8		163	.13				134	.08		
9		165	.15				110	.06		
10		150	.11				115	.05		
11		165	.12				112	.05		
12		150	.11				100	.04		
13		152	.08				122	.07		
14		160	.12				115	.06		
15		175	.16				107	.04		
16		152	.10							
17		145	.10							
18		170	.15							
19		176	.17							
20		173	.16							
21		147	.10			n=	50			
22		178	.16			Σx	7398			
23		155	.13							
24		182	.19			Σx^2	1124732			
25		165	.12							
26		158	.12			$\bar{x}$	148.0			
27		153	.11							
28		150	.10			s	24.8			
29		167	.12			s^2	614.8			
30		160	.11							
31		133	.08							
32		127	.07							
33		125	.06							
34		126	.07							
35		168	.12							

Length Range 100-196 weight Range .04-.21

n=50 mean 148.0 mean 0.11

Cond 30 micro mos/cm

Firmore (Short Pine) Lake 1976

CPUE (RB 1973 plant) = 0.246
(RB 1975 plant) = 0.603

RB 1973 plant

Length

Range = 385 - 565
$n = 11$
$\Sigma x = 5447$
$\Sigma x^2 = 2,722,275$
$\bar{x} = 495.182$
$s = 50.019$
$s^2 = 2501.963$

Weight

Range = 2.29 - 4.60
$n = 11$
$\Sigma x = 34.6$
$\Sigma x^2 = 114.234$
$\bar{x} = 3.145$
$s = 0.7349$
$s^2 = 0.5402$

RB 1975 plant

Length

Range = 227 - 342
$n = 22$
$\Sigma x = 6,837$
$\Sigma x^2 = 2,139,811$
$\bar{x} = 310.773$
$s = 26.778$
$s^2 = 717.041$

Weight

Range = 0.35 - 1.60
$n = 22$
$\Sigma x = 20,85$
$\Sigma x^2 = 21,123$
$\bar{x} = 0.9477$
$s = 0.2547$
$s^2 = 0.0648$

200

EXPERIMENTAL NET SET RECORD

SET NO. 1 LAKE (Tirmore Short Pine) LOCATION OF LAKE Natl Kenai

WEATHER Cloudy & rain LOCATION OF SET (station) See Map

TEMP. AIR 50 ° WATER (surf.) 52 ° TYPE OF BOTTOM Rock & mud

WATER (bottom) ° TYPE OF SET: FLOATER: DIVER: ✓

NET TYPE monofilament gill net LENGTH 125' SET: TIME 10:30 DATE 9/21/76

MESH SIZE 3/4 – 2" DEPTH 6' LIFT: TIME 8:45 DATE 9/22/76

OBSERVER Haines DEPTH OF SET (diver) 5 ft. to 12 ft

BOTTOM DEPTH (floater)

REMARKS SHALLOW END MESH SIZE

	Species	L	W	Sex	Stomach ~~Scale~~ No.	Species	L	W	Sex	Scale No.
1	RB LV	515	3.66	M	Stom. Empty					
2	LV	565	4.60	F	Stom. Empty					
3	RV	493	3.30	F	Shrimp					
4	LV	492	2.88	F	Shrimp Leech					
5	LV	492	2.68	F	"					
6	AD RV	532	2.29	M	"					
7		385	2.03	M	Empty					
8	1975	327	1.13	M	SB Leech					
9	"	333	1.12	MI	Shrimp					
10	"	313	1.00	MI	Leech					
11	"	325	1.00	MI	Leech SB					
12	"	342	1.07	MI	Shrimp					
13	"	318	.85	MI	"					
14	"	301	.74	FI	"					
15	"	306	.82	MI	"					
16	"	285	.81	MI	Leech Shrimp					
17	RB	released								
18	RB	released								
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										

200

~~35~~ 169

EXPERIMENTAL NET SET RECORD

SET NO. 2 LAKE Tirmore LOCATION OF LAKE N. Kenai Peninsula

WEATHER overcast Shr Pine LOCATION OF SET (station) See Map

TEMP. AIR 50 ° WATER (surf.) 52 ° TYPE OF BOTTOM Rock & mud

WATER (bottom) ° TYPE OF SET: FLOATER: DIVER: ✓

NET TYPE monofilament gill net LENGTH 125' SET: TIME 10:45 DATE 9/21/76

MESH SIZE 3/4 – 2" DEPTH 6' LIFT: TIME 9:15 DATE 9/22/76

OBSERVER Hawes DEPTH OF SET (diver) 8 ft. to 24 ft

BOTTOM DEPTH (floater)

REMARKS SHALLOW END MESH SIZE

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1	RB no mark	525	3.76	MI	Short Lock					
2	LV	545	3.63	M	S.B.					
3	LV	510	3.18	F	?					
4	LV	493	2.69	M	Short S.B.					
5	1975	310	1.60	MI	Lock					
6	"	336	1.20	MII	Lock					
7	"	341	1.25	FI	Lock					
8	"	338	1.07	MI	Lock					
9	"	308	.86	MI	Emp					
10	"	315	.93	MI	SB					
11	"	300	.87	FI	Lock					
12	"	332	1.09	MI	Emp					
13	"	321	.98	MI	Lock SB					
14	"	301	.79	MI	Short SB					
15	"	288	.74	MI	Lock					
16	"	270	.58	FI	?					
17	"	227	.35	FI	?					
18	RB	released								
19	RB	released								
20	RB	released								
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										

EXPERIMENTAL NET SET RECORD

SET NO. 132 LAKE Tirmore LOCATION OF LAKE Kenai Penn. No. Kenai

WEATHER Calm - heavy Rain LOCATION OF SET (station) _____

TEMP. AIR 55 °F WATER (surf.) 54 °F TYPE OF BOTTOM Om, Rock & Mud

WATER (bottom) _____ ° TYPE OF SET: FLOATER: _____ DIVER: ✓

NET TYPE Mesh LENGTH 125' SET: TIME 1200 DATE 9/26/77

MESH SIZE 2½ → ½ DEPTH _____ LIFT: TIME 1300 DATE 9/27/77

OBSERVER Rance Morrison DEPTH OF SET (diver) _____ ft. to _____ ft.

BOTTOM DEPTH (floater) _____

REMARKS _____ SHALLOW END MESH SIZE ½

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1	Rainbow	458	2.86	m ♂	—					
2		467	3.16	m ♂	—					
3		458	2.84	m ♂	leach					
4		228	.34	I ♂	leach					
5		210	.28	m ♂	—	1977 Plant Cpue = .240				
6		219	.26	m ♂	leach					
7		222	.30	I ♀	leach	Length				
8		196	.20	I ♀	—					
9		190	.18	I ♀	—	Range =	154 – 228			
10		196	.20	I ♂	—	n =	10			
11		200	.22	I ♀	S.B.	ΣX =	2029			
12		215	.22	I ♂	leach	ΣX^2 =	415165			
13	2 large 2 small	154	.12	I ♀	"	$\bar{X}$ =	202.9			
14	Release	4 RB.				s =	21.29			
15						s^2 =	453.43			
16	1975 Plant									
17										
18	Cpue (1973 plant) = .10							Weight		
19										
20	Length			Weight				Range = .12 – .34		
21								n = 10		
22	Range = 467 – 458			Range =	284 – 316			ΣX = 2.42		
23	n = 3			n =	3			ΣX^2 = .6282		
24	ΣX = 1383			ΣX =	8.86			$\bar{X}$ = .242		
25	ΣX^2 = 677617			ΣX^2 =	26.230			s = .06195		
26	$\bar{X}$ = 461			$\bar{X}$ =	2.953			s^2 = .003837		
27	s = 5.196			s =	.1792					
28	s^2 = 27			s^2 =	.0321					
29										
30										
31										
32										
33										
34										
35										

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EXPERIMENTAL NET SET RECORD

SET NO. 1+2 LAKE TIRMORE — LOCATION OF LAKE Lamplight RD.

WEATHER Cloudy - Windy — LOCATION OF SET (station) See Map

TEMP. AIR 8 °C WATER (surf.) 7 °C — TYPE OF BOTTOM MUD

WATER (bottom) ____ ° — TYPE OF SET: FLOATER: ✓ DIVER: ✓

NET TYPE V-Mesh LENGTH 125' — SET: TIME 11:30 DATE 10/9/78

MESH SIZE 1/2"-2" DEPTH ____ — LIFT: TIME 10:00 DATE 10/10/78

OBSERVER R Mowbray — DEPTH OF SET (diver) ____ ft. to ____ ft.

BOTTOM DEPTH (floater) ____

REMARKS ____ — SHALLOW END MESH SIZE 1/2

Stomach

	Species	mm L	# W	Sex	~~Scale~~ No.	Species	L	W	Sex	Scale No.
1	RB	610	7.125	M	LEACHES					
2	RB	512	4.16	F	LEACHES					
3	RB	467	3.20	M	"					
4	RB	425	2.90	M	"					
5										
6										
7										
8										
9										
10										
11										
12	1975 plant				Opue = 0.089					
13										
14		length					weight			
15		Range = 425 - 610					Range 2.9 - 7.12			
16										
17		$n = 4$					$n = 4$			
18		$\Sigma X = 2014$					$\Sigma X = 17.38$			
19		$\Sigma X^2 = 1032958$					$\Sigma X^2 = 86.72$			
20		$\bar{X} = 503.5$					$\bar{X}$ 4.34			
21		$s = 79.39$					$s = 1.93$			
22		$s^2 = 6303$					$s^2 = 3.72$			
23										
24										
25										
26										
27	No 77' plant taken									
28										
29										
30										
31										
32										
33										
34										
35										

EXPERIMENTAL NET SET RECORD

SET NO. 8 LAKE Tirmore LOCATION OF LAKE

WEATHER PTLY CLOUDY LOCATION OF SET (station)

TEMP. AIR ° WATER (surf.) 14 ° C (57.2 °F) TYPE OF BOTTOM

WATER (bottom) ° TYPE OF SET: FLOATER: 1 DIVER: 1

NET TYPE LENGTH SET: TIME 1230 HRS. DATE 9/24/79

MESH SIZE DEPTH LIFT: TIME 1200 HRS. DATE 9/25/79 (47 HRS.)

OBSERVER Larsen DEPTH OF SET (diver) ft. to ft

BOTTOM DEPTH (floater)

REMARKS SHALLOW END MESH SIZE

	Species	(mm) L	(LB) W	Sex	Stomach cont. ~~Scale~~ No.	Species	L	W	Sex	Scale No.
1	RB	611	7.12	M	Shrimp & Leeches					
2	RB	575	5.95	M	"	"				
3										
4	1975	RB PLANT:								
5	Length	Range	: 575-	611						
6	WT.	Range	: 5.95-	7.12						
7	MEAN	Length	: 593	mm						
8	S. DEV.	Length	: 25.5	mm						
9	MEAN	WT	: 6.54	lb						
10	S. DEV.	WT	: 0.83	lb						
11		CPUE	: 0.043							
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
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35										

EXPERIMENTAL NET SET RECORD

SET NO. 10 LAKE T/Remove LOCATION OF LAKE

WEATHER RAIN LOCATION OF SET (station)

TEMP. AIR ° WATER (surf.) 11 ° C TYPE OF BOTTOM

WATER (bottom) ° TYPE OF SET: FLOATER: X DIVER:

NET TYPE LENGTH SET: TIME 1430 HRS DATE 10/6/80

MESH SIZE DEPTH LIFT: TIME 1300 HRS DATE 10/7/80

OBSERVER L. Larson DEPTH OF SET (diver) ft. to ft

BOTTOM DEPTH (floater)

REMARKS 1975 PLANT SHALLOW END MESH SIZE

Stomach

	Species	(mm) L	(lb) W	Sex	Scale ~~No.~~	Species	L	W	Sex	Scale No.
1	RB	623	9.5 lbs	♂	38?					
2	RB	664	10.0 lbs	♂	Leaches					
3										
4										
5	RB	CPUE = 0.09			1975 PLANT					
6	Length	RANGE = 623 mm → 664 mm								
7		mean = 643.5								
8		S. Dev. = 29.0								
9										
10	WT	RANGE = 9.5 → 10.0 lb.								
11		mean = 9.75 lb.								
12		S. Dev. = 0.25 lb.								
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										

2.3 mi ... Le-dijon -> Pipits
Pipits 2 0.3 mile - ? where lake is
next to road 0.6 mile - small wood
to end of lake

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EXPERIMENTAL NET SET RECORD

SET NO. 14 LAKE Tilmore

WEATHER Overcast windy

TEMP. AIR 10 °C WATER (surf.) 11 °C

WATER (bottom) ____ °

NET TYPE ____ LENGTH ____

MESH SIZE ____ DEPTH ____

OBSERVER DA & EMS

REMARKS 5 03

LOCATION OF LAKE ____

LOCATION OF SET (station) ____

TYPE OF BOTTOM ____

TYPE OF SET: FLOATER: ✓ DIVER: ____

SET: TIME 10:45 Am DATE 10/1/84

LIFT: TIME 10:4 Am DATE 10/2/84

DEPTH OF SET (diver) ____ ft. to ____ ft.

BOTTOM DEPTH (floater) ____

SHALLOW END MESH SIZE ____

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1	RB	300	.88							
2		312	.98			39 Total fish / 24 two fish ad = 1.63/lb				
3		275	.67			195 – 312 mm L range				
4		297	.90			7736 / 34 = 227.5 (228) mean L				
5		270	.66			12.73 / 34 = .37 lbs mean W				
6		265	.58							
7		236	.39							
8		234	.42							
9		225	.34							
10		225	.36							
11		222	.35			48				
12		210	.28							
13		250	.39			14				
14		205	.26							
15		222	.28							
16		214	.28							
17		213	.29							
18		240	.36							
19		222	.28							
20		204	.27							
21		210	.28							
22		226	.32							
23		215	.25							
24		202	.23							
25		210	.30							
26		218	.27							
27		213	.28							
28		198	.21							
29		204	.22							
30		203	.21							
31		210	.29							
32		196	.21							
33		195	.20							
34		195	.24							
35		7736	12.73							

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EXPERIMENTAL NET SET RECORD

SET NO. 17 LAKE Tirmore

WEATHER Partly cldy / l-t wind

TEMP. AIR 12 ° C WATER (surf.) 7 ° C

WATER (bottom) ____ °

NET TYPE ____ LENGTH ____

MESH SIZE ____ DEPTH ____

OBSERVER Athens / Marcorelle

REMARKS 3 large released

LOCATION OF LAKE ____

LOCATION OF SET (station) ____

TYPE OF BOTTOM ____

TYPE OF SET: FLOATER: ____ DIVER: 1

SET: TIME 1:00 PM DATE 10/3/85

LIFT: TIME 9:30 AM DATE 10/4/85 (20 hrs)

DEPTH OF SET (diver) ____ ft. to ____ ft.

BOTTOM DEPTH (floater) ____

SHALLOW END MESH SIZE ____

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1	RB	415	1.64							
2		365	1.18	16 total fm 1983						
3		395	1.28	L = 4675/13 = 360						
4		370	1.20	range = 330 - 415						
5		370	1.27	W = 1437/13 = 110						
6		390	1.23	16/20.5 = .78/hr						
7		355	1.03							
8		355	0.98							
9		355	1.05							
10		305	0.82							
11		330	0.90							
12		340	0.90							
13		330	0.89							
14		150	0.06	1 total	unc.					
15				L = 150						
16				range = 150						
17				W = .06						
18				1/20.5 = .05/hr						
19										
20										
21										
22										
23										
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34										
35										

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EXPERIMENTAL NET SET RECORD

SET NO. 15 LAKE Tirrun

WEATHER Rain/Calm

TEMP. AIR ____ ° ____ WATER (surf.) 6 °C

WATER (bottom) ____ °

NET TYPE ____ LENGTH ____

MESH SIZE ____ DEPTH ____

OBSERVER Athan/Reed

REMARKS Rel 1 Sm mid 3 Lg (5 Yllw)

LOCATION OF LAKE ____

LOCATION OF SET (station) ____

TYPE OF BOTTOM ____

TYPE OF SET: FLOATER: ____ DIVER: 1

SET: TIME 12:30 DATE 10/12/87

LIFT: TIME 11:30 DATE 10/13/87

DEPTH OF SET (diver) ____ ft. to ____ ft 23 hrs

BOTTOM DEPTH (floater) ____

SHALLOW END MESH SIZE ____

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1	RT	266	0.50				177	0.16		
2		278	0.51	1 Tag - 1983 plant			190	0.21		
3		242	0.41				158	0.14		
4		254	0.46				172	0.14		
5		237	0.40	75 Total 1986			166	0.15		
6		224	0.38	130 - 278 mm			165	0.14		
7		220	0.36	$\bar{Y}$L 13,103/71 = 185			170	0.15		
8		218	0.33	$\bar{Y}$W 13.85/71 = .20			165	0.14		
9		232	0.36	71/23 = 3.09/hr.			168	0.14		
10		240	0.36				184	0.16		
11		220	0.33				168	0.12		
12		231	0.30				155	0.13		
13		218	0.26				172	0.14		
14		212	0.27				160	0.12		
15		212	0.26				160	0.13		
16		214	0.23				157	0.13		
17		220	0.27				160	0.13		
18		228	0.31				161	0.11		
19		209	0.23				162	0.12		
20		219	0.30				160	0.10		
21		211	0.26				154	0.10		
22		192	0.18				160	0.10		
23		180	0.18				156	0.11		
24		193	0.19				166	0.12		
25		178	0.18				160	0.10		
26		185	0.20				142	0.08		
27		190	0.22				155	0.10		
28		178	0.17				145	0.08		
29		182	0.16				158	0.10		
30		183	0.17				140	0.07		
31		205	0.24				142	0.08		
32		190	0.19				162	0.10		
33		170	0.16				138	0.08		
34		178	0.18				140	0.07		
35		176	0.16				140	0.07		
							130	0.06		

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EXPERIMENTAL NET SET RECORD

SET NO. 16 LAKE Tirman LOCATION OF LAKE _____

WEATHER Clear/Calm LOCATION OF SET (station) _____

TEMP. AIR ____ ° ____ WATER (surf.) 13° C TYPE OF BOTTOM _____

WATER (bottom) ____ ° ____ TYPE OF SET: FLOATER: ____ DIVER: 1

NET TYPE _____ LENGTH _____ SET: TIME 11:00 DATE 9-20

MESH SIZE _____ DEPTH _____ LIFT: TIME 13:00 DATE 9-25

OBSERVER Allen/Bedell DEPTH OF SET (diver) ____ ft. to ____ ft.

BOTTOM DEPTH (floater) _____

REMARKS 3 released SHALLOW END MESH SIZE _____

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1	RT	530	4.66	9 Total	1983					
2		525	3.70	L=	16=510					
3		520	3.50	Range 465-530						
4		530	3.68	W= 21.13	16=3.52					
5		490	2.92	9/26=	0.35					
6		465	2.67							
7		3960	21.13							
8										
9										
10										
11										
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13										
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32										
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34										
35										

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EXPERIMENTAL NET SET RECORD

SET NO. 15 LAKE Tiemore

WEATHER

TEMP. AIR ° WATER (surf.) ° WATER (bottom) °

NET TYPE LENGTH

MESH SIZE DEPTH

OBSERVER King / Wood

REMARKS ~3# + 4S, 1M, 1L, 1XL released

LOCATION OF LAKE

LOCATION OF SET (station)

TYPE OF BOTTOM

TYPE OF SET: FLOATER: DIVER:

SET: TIME 1500 DATE 9/18/89

LIFT: TIME 1140 DATE 9/19/89 20.75

DEPTH OF SET (diver) ft. to ft.

BOTTOM DEPTH (floater)

SHALLOW END MESH SIZE

	Species	L	W	Sex	Scale No.	Species	L	W	Sex	Scale No.
1	RT	470	2.25		1986 Plant					
2		390			R=	340-470				
3		405			I = 397					
4		381	↑		W = 1.47					
5		340	4.92		n = 8					
6	(381)	415	1.66		CPUE=	.39				
7		203								
8		230								
9		200								
10		212								
11		202	↑			1988 Plant				
12		207	1.39			R = 143 — 230				
13		194				I = 176				
14		191				W = .114				
15		146				n = 33				
16		168				CPUE=	1.59			
17		163								
18		177								
19		151				TOTAL CPUE =			1.98	
20		172								
21		167								
22		167								
23		180								
24		154								
25		172								
26		167								
27		166								
28		168								
29		160								
30		172								
31		187								
32		155								
33		143	↑							
34	↓	161	2.54							
35		(4935)								