

Creel Census and Biological Investigation of North Henik, South Henik, Nueltin and Snowbird Lakes, Northwest Territories



M.M. Roberge, L. Dahlke and C.J. Read

Western Region
Department of Fisheries and Oceans
Winnipeg, Manitoba R3T 2N6

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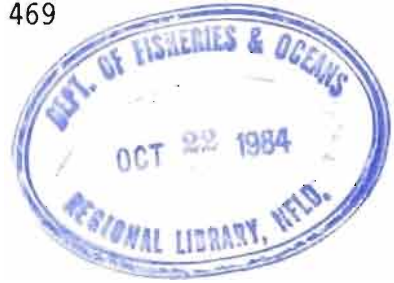
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September 1984



CREEL CENSUS AND BIOLOGICAL INVESTIGATION OF
NORTH HENIK, SOUTH HENIK, NUEL TIN AND SNOWBIRD LAKES,
NORTHWEST TERRITORIES.

by

M. M. Roberge, L. Dahlke and C. J. Read

Western Region
Department of Fisheries and Oceans
Winnipeg, Manitoba R3T 2N6

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ABSTRACT

Roberge, M.M., L. Dahlke, and C.J. Read. 1984. Creel census and biological investigation of North Henik, South Henik, Nueltin and Snowbird lakes, Northwest Territories. Can. Data Rep. Fish. Aquat. Sci. 469: vi + 89 p.

A creel census, experimental gillnetting and biological sampling program was conducted on North Henik, South Henik, Nueltin and Snowbird lakes, Northwest Territories from 1980 to 1982. Sport fishing harvest and biological data are presented in this report. Harvest data include an estimation of total angler harvest, number of fish caught per angler-hour and harvest per angler. Biological data include length, weight, age and maturity characteristics of the fish species caught.

Key words: angling, catch/effort; catch composition; gillnetting; lake trout; lake whitefish; population structure; sport fishing; tagging.

RESUME

Roberge, M.M., L. Dahlke, and C.J. Read. 1984. Creel census and biological investigation of North Henik, South Henik, Nueltin and Snowbird lakes, Northwest Territories. Can. Data Rep. Fish. Aquat. Sci. 469: vi + 89 p.

De 1980 à 1982, on a réalisé un programme de relevés des prises de pêche sportive, de pêche expérimentale aux filets maillants, et d'échantillonnage biologique, aux lacs Henik-Nord, Henik-Sud, Nueltin et Snowbird, dans les Territoires du Nord-Ouest. Le présent rapport présente les données sur la pêche sportive et les données biologiques. Les données sur les prises donnent une estimation des prises totales, le nombre de prises par heure-pêcheur et le nombre de prises par pêcheur sportif. Les données biologiques portent sur la longueur, le poids, l'âge et les caractéristiques de maturité des espèces de poisson prises.

Mots-clés: pêche à la ligne, prises/effort; composition des prises; pêche au filet maillant; touladi; composition de la population; pêche sportive; étiquetage.

INTRODUCTION

In 1979, the Department of Fisheries and Oceans (DFO) began a five year program to evaluate sport fishing on the major lakes in the District of Keewatin, Northwest Territories: lake trout, *Salvelinus namaycush* (Walbaum) being the species of primary interest. This study was undertaken in response to increased sport fishing lodge development in the district and a proposal from the lodge owners to have the major sport fishing lakes in the area evaluated to determine if they could be designated as high quality fishing lakes. A "high quality fishery" for lake trout is one in which the population structure of lake trout is maintained such that large lake trout are available to anglers on a long-term basis. This is accomplished primarily by allowing very limited exploitation of the stock (i.e. reduced catch and possession limits).

The major lakes in the Keewatin under consideration are Kasba, North Henik, South Henik, Dubawnt, Nueltin, Snowbird and Mosquito lakes, all of which have existing or proposed sport fishing lodges (or outpost camps). It is intended that over the five year period these lakes will be surveyed to gain a better understanding of the sport fishing industry, to obtain lake trout population and harvest data and to assess the potential of these lakes to provide high quality fisheries for lake trout. Results of this program will culminate in a sport fishery management plan for these lakes.

The lakes surveyed and reported to date include Kasba Lake (Falk et al. 1982a) and Dubawnt Lake (Roberge 1984). This report presents information collected from 1980 to 1982 on the sport fishery harvest and biological status of the fish species from North Henik, South Henik, Nueltin and Snowbird lakes.

STUDY AREA

NORTH HENIK LAKE

North Henik Lake (61°43'N, 97°47'W) situated north of the treeline, 200 km northwest of Eskimo Point (Fig. 1), is part of the Tha-Anne River system. The lake has a maximum length of 28 km, a maximum width of 28 km, and a total surface area of 22 533 ha (Inven. Can. Freshwater Lakes, 1969). The topography surrounding North Henik Lake is typical tundra, a rolling treeless landscape. MacDonald and Fudge (1979) describe the geology, climate and other limnological conditions of the Keewatin District.

SOUTH HENIK LAKE

South Henik Lake (61°27'N, 97°22'W) situated 180 km west of Eskimo Point (Fig. 1), is part of the McConnell-Tha-anne-Kognak River system. The lake has a maximum length of 59 km, a maximum width of 19 km, and a total surface area of 51 308 ha (Inven. Can. Freshwater Lakes, 1969). The topography of northern South Henik Lake is typical tundra while the southern por-

tion of the lake is below the treeline in an area forested primarily by spruce. MacDonald and Fudge (1979) describe the environmental conditions of the area.

NUELTIN LAKE

Nueltin Lake (60°00'N, 99°50'W), part of the Thlewiaza River system, is situated between the Northwest Territories and Manitoba border approximately 300 km south west of Eskimo Point (Fig. 1). The lake has a maximum length of 143 km, a maximum width of 48 km, and a total surface area of 227 866 ha (Inven. Can. Freshwater Lakes, 1969). Nueltin Lake lies south of the treeline which passes along the northern tip of the lake in an area forested primarily by birch and spruce. MacDonald and Fudge (1979) describe the environmental conditions of the area.

SNOWBIRD LAKE

Snowbird Lake (60°40'N, 102°55'W) is situated in the southeastern District of Mackenzie just west of the Keewatin District boundary (Fig. 1). The lake, located approximately 475 km west of Eskimo Point, is part of the Kazan River system and lies below the treeline in an area forested by spruce. The maximum length of the lake is 40 km, the maximum width is 17 km and the total surface area is 50 481 ha (Inven. Can. Freshwater Lakes, 1969). MacDonald and Fudge (1979) describe the geology, climate and other limnological conditions of the area.

MATERIALS AND METHODS

CREEL CENSUS

A partial creel census was conducted by DFO personnel at Henik Lake Lodge from 9 July to 24 August, 1980. The creel census procedures and forms used were as described by Falk et al. (1973, 1974). Anglers were questioned at the end of each day as to the numbers of fish caught, released, retained and eaten for shore lunches by species as well as the hours spent fishing and the locations fished. Anglers who fished in the evenings were interviewed as they returned to camp, or the next day. When possible, the retained catch was sampled for length, weight, age (otolith/scale) and maturity.

During 1981, a voluntary creel census was initiated by DFO personnel and conducted by lodge personnel at Treeline Lodge and Narrows Camp, Nueltin Lake from 27 June to 8 August. Anglers were questioned as to the numbers of fish caught, released, retained (includes those fish eaten for shore lunches) by species as well as the hours spent fishing and the locations fished. A creel census was not conducted at the East Camp on Nueltin Lake.

A complete creel census was conducted by DFO personnel at Snowbird Lake Lodge from 25 July to 3 September, 1982. Creel census procedures and forms used were as described by Falk

et al. (1973, 1974). Anglers were questioned as to the numbers of fish caught, released, retained and eaten for shore lunches by species, hours spent fishing and the locations fished. When possible the retained catch was sampled for length, weight, age (otolith/scale) and maturity.

EXPERIMENTAL GILLNETTING

Experimental gillnetting was carried out on North Henik, South Henik, Nueltin and Snowbird lakes using standard gangs composed of 47.5 m lengths each of 38, 64, 89, 114 and 139 mm (stretched measure) mesh nylon gillnets. Set locations are depicted in Fig. 3, 4, 6, and 8. The average set duration was 24 hours. Catches were recorded by site number, mesh size and species. Large, active and unharmed lake trout caught in the nets were measured for fork length ± 1 mm), tagged and released.

BIOLOGICAL SAMPLING

Fish were sampled from the anglers' creel and from the experimental gillnets for fork length (± 1 mm), round weight (± 50 g), aging structures (otoliths/scales), sex, and stage of maturity. Only lengths and weights were obtained from trophy fish (fish that would be mounted). Sex and the relative stage of maturity were determined by examination of the gonads and coded according to the stages described by Falk et al. (1982a,b).

Sagittal otoliths were taken from lake trout and burbot and stored dry in coin envelopes. In the laboratory, the otoliths were selectively ground on a carborundum stone and placed in a cleaning/clarifying solution of 3:1 benzyl-benzoate and methyl salicylate before being read under a binocular dissecting microscope (30x). A reflecting light source against a black background was used to emphasize the annual growth zones which were counted to determine the ages.

Scales were taken from cisco, lake whitefish, round whitefish, northern pike and Arctic grayling as described by Hatfield et al. (1972) and stored dry in coin envelopes. Catostomidae species were not aged. In the laboratory, scales were mounted between glass slides and the completed annuli counted on the image produced by an Eberbach microprojector (x40).

Ovaries were removed from mature lake trout collected over the summer and placed in a 10% formalin solution. In the laboratory, the ovaries were weighed (wet weight ± 1 g) and total number of ova from each ovary were counted after removal of the ovarian tissue. Mean ovum diameter was determined from an average of 20 ova taken from each of the anterior, middle and posterior portions of both ovaries (n=120).

Weight-length relationships were calculated using least squares regression analysis on logarithmic transformations of fork length and

round weights. The relationship is described by the following equation:

$$\log_{10} W = a + b (\log_{10} L)$$

where W = weight in grams

L = fork length in millimeters

Relative condition factor (K), a measure of the plumpness of a fish, was determined using the formula:

$$K = \frac{W \times 10^5}{L^3}$$

where W = weight in grams

L = fork length in millimeters

TAGGING

Lake trout were captured for tagging using small mesh gillnets. Gillnets, composed of varying lengths of 38 and 64 mm mesh, were set in shallow water and checked every 12 to 24 hours, weather permitting. Trout caught were placed in a measuring trough to obtain fork length. White Floy (spaghetti) tags containing a reference number and return address were attached using a Dennison tagging gun. Tags were inserted in the left side of the fish at the base of the dorsal fin and anchored between the pterygiophores. Fish were then returned to the water and released or, if necessary, held until they recuperated and then released.

DATA ANALYSIS

The Statistical Analysis System (1979) was used to generate length, weight, sex, age and maturity tables.

WATER TEMPERATURE

Water temperatures ($^{\circ}\text{C}$) were recorded in North Henik and South Henik lakes every seven days during the course of the study. Temperatures were recorded at one metre intervals using a Yellow Spring temperature meter.

ACKNOWLEDGMENTS

The authors wish to thank J. Cole, owner of Henik Lake Lodge, B. Bennett, owner of Treeline Lodge, Nueltin lake, and I. Schalwig, owner of Snowbird Lake Lodge and their staff for their cooperation and assistance in the data collection. Assistance in the field was provided by T. Davidson, D. Jessiman, B. Dunn, B. O'Connor and R. Sauvlet. Figures were prepared by Graphics Services, Freshwater Institute. S. Ahlgren typed the final report. A.H. Kristofferson, E. Gyselman and R. Wickstrom provided critical comments and useful suggestions and reviewed the report for publication.

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Table 1. Summary of information pertaining to lodge operation and creel census survey at North Henik and South Henik lakes, 1980.

Period	Lodge Operation			Angler-days	Period	Creel Census				
	Duration (days)	No. of Guests				Duration (days)	No. Anglers	Angler-days	Angler-hours	
		Calculated	License Sales ¹			Total	Censused			
5 July 6 September	64	96	168	436 ²	9 July 24 August	47	47	66	300	1 397

¹ Provided by Dept. Renewable Resource, Government of Northwest Territories.

² Estimated from number anglers interviewed during creel census.

Table 2. Observed catch, effort and catch/effort statistics of anglers during the creel census survey at North Henik and South Henik lakes and the Henik River, 1980.

Location	Species	Catch		Angler effort		Fish per angler		Fish per angler-day		Fish per angler-hour	
		No.	Wt(Kg)	days	hours	No.	Wt(kg)	No.	Wt(kg)	No.	Wt(Kg)
North Henik Lake	lake trout	1 793	3 020	217	1 144.0	NA	NA	8.3	23.1	1.6	4.4
South Henik Lake	lake trout	246	689	38	162.0	NA	NA	6.5	10.4	1.5	4.1
Henik River	lake trout	58	-	45	91.0	NA	NA	1.4	-	0.6	-
	Arctic grayling	14	-	-	-	-	-	0.3	-	0.2	-
Henik lakes	lake trout	2 097	5 877	300	1 397.0	31.8	89.1	7.0	19.6	1.5	4.2
	Arctic grayling	14	-	-	-	0.2	-	<0.1	-	<0.1	-

NA = Not available; individual anglers not specified by lake fished.

Table 3. Summary of harvest statistics for North Henik and South Henik lakes, 1980.

Location	Species	Census Harvest ¹		Total Harvest ²		Hectare fished		Harvest per Hectare available		Angler	
		No.	Wt(kg)	No.	Wt(kg)	No.	Wt(kg)	No.	Wt(kg)	No.	Wt(kg)
North Henik Lake	lake trout	317	888	611	1 711	0.18	0.50	0.03	0.08	6.36	17.82
South Henik Lake	lake trout	46	129	87	243	0.08	0.22	<0.01	<0.01	0.91	2.53
Henik River	lake trout	0	-	6	17	-	-	-	-	0.06	0.18
	Arctic grayling	0	-	1	-	-	-	<0.01	-	0.01	-
Henik lakes	lake trout	363	1 016	704	1 972	0.16	0.44	0.01	0.03	7.33	20.54
	Arctic grayling	0	-	1	-	-	-	<0.01	-	0.01	-

¹ Includes fish retained and shore lunches.

² Includes fish retained, shore lunches and release mortality (7%).

³ Mean weight = 2.8 kg.

Table 4. Biological data by length interval for angled lake trout from North Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
475	2	493	1275	35	1.07	100	-	-	-	-	-	-	2	493	1275	35	1.07	100
500	3	512	1350	132	1.01	67	-	-	-	-	-	-	3	512	1350	132	1.01	67
525	1	528	1575	-	1.07	100	1	531	1600	-	1.07	100	2	530	1588	18	1.07	100
550	5	563	1840	167	1.03	100	1	562	1800	-	1.01	0	6	563	1833	151	1.03	83
575	6	590	2238	282	1.09	83	6	593	2058	128	0.99	100	12	591	2148	229	1.04	92
600	5	617	2456	285	1.04	100	3	613	2358	166	1.03	100	8	616	2419	238	1.04	100
625	5	641	2740	258	1.04	100	7	641	2646	329	1.00	100	12	641	2685	292	1.02	100
650	2	659	3000	71	1.05	100	6	663	3192	464	1.10	100	8	662	3144	403	1.08	100
675	5	687	3255	155	1.00	100	4	680	3250	418	1.03	100	9	684	3253	279	1.02	100
700	6	712	3533	382	0.98	100	5	709	4010	347	1.12	100	11	710	3750	428	1.04	100
725	1	744	4650	-	1.13	100	3	736	4075	222	1.02	100	4	738	4219	340	1.05	100
775	1	776	4400	-	0.94	100	-	-	-	-	-	-	1	776	4400	-	0.94	100
800	1	805	5550	-	1.06	100	-	-	-	-	-	-	1	805	5550	-	1.06	100
TOTAL MEAN	43	629	2671	960	1.03		36	651	2938	805	1.04		79	639	2793	897	1.04	

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Table 6. Catch and catch per unit effort (CPE) data for fish caught by experimental gillnets from North Henik Lake, 1980.

		Mesh Size					Total Catch (kg)	CPE ¹
		1.5 38	2.5 64	3.5 89	4.5 114	5.5 (in) 139 (mm)		
Lake trout	No.	88	68	88	75	30	349	11.52
	%	25.2	19.5	25.2	21.5	8.6	74.9	
Lake whitefish	No.	-	5	11	9	10	35	1.15
	%	-	14.3	31.4	25.7	28.6	7.5	
Round whitefish	No.	7	4	-	-	-	11	0.36
	%	63.6	11.4	-	-	-	2.4	
Cisco	No.	23	-	-	-	-	23	0.76
	%	100.0	-	-	-	-	4.9	
Longnose sucker	No.	39	3	1	1	-	44	1.45
	%	88.6	6.8	2.3	2.3	-	9.4	
Northern Pike	No.	-	1	-	-	-	1	0.03
	%	-	100.0	-	-	-	0.2	
Burbot	No.	2	-	-	-	-	2	0.03
	%	100.0	-	-	-	-	0.2	
Arctic grayling	No.	1	-	-	-	-	1	0.03
	%	100.0	-	-	-	-	0.2	
Total	No.	159	81	100	85	40	466	15.38
	%	34.1	17.4	21.5	18.2	8.6		

¹ No. fish caught/100 m gillnet/24 hours.

Table 7. Biological data by length interval for lake trout caught by experimental nets from North Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED								
	N	LENGTH(MM)		WEIGHT(G)		% K MAT		N	LENGTH(MM)		WEIGHT(G)		% K MAT		N	LENGTH(MM)		WEIGHT(G)		% K MAT	
		MEAN	SD	MEAN	SD	K	MAT		MEAN	SD	MEAN	SD	K	MAT		MEAN	SD	MEAN	SD	K	MAT
150	-	-	-	-	-	-	-	-	-	-	-	-	-	1	166	50	-	1.09	-	-	-
175	-	-	-	-	-	-	-	-	-	-	-	-	-	1	183	50	-	0.82	-	-	-
200	3	208	58	38	0.65	0	-	-	-	-	-	-	3	208	58	38	0.65	0	-	-	-
225	5	236	89	52	0.70	0	2	237	155	134	1.13	0	7	236	108	76	0.82	0	-	-	-
250	1	267	175	-	0.92	0	1	262	150	-	0.83	0	2	265	163	18	0.88	0	-	-	-
275	2	287	275	35	1.18	0	-	-	-	-	-	-	2	287	275	35	1.18	0	-	-	-
300	5	309	300	71	1.02	0	2	314	275	35	0.89	0	7	310	293	61	0.98	0	-	-	-
325	1	328	350	-	0.99	0	1	334	300	-	0.81	0	2	331	325	35	0.90	0	-	-	-
350	2	358	500	0	1.09	0	1	374	550	-	1.05	0	3	363	517	29	1.08	0	-	-	-
375	4	384	638	48	1.13	0	1	394	650	-	1.06	0	5	386	640	42	1.12	0	-	-	-
400	8	410	725	44	1.06	0	3	412	750	50	1.07	0	11	410	732	45	1.06	0	-	-	-
425	7	440	861	64	1.01	0	4	444	925	65	1.06	0	11	441	884	69	1.03	0	-	-	-
450	1	458	1000	-	1.04	0	1	471	1000	-	0.96	0	2	465	1000	0	1.00	0	-	-	-
475	4	490	1213	48	1.03	0	3	490	1500	700	1.28	33	7	490	1336	434	1.14	14	-	-	-
500	10	510	1472	229	1.11	60	4	508	1300	158	0.99	50	14	509	1423	221	1.08	57	-	-	-
525	15	540	1562	272	1.00	80	3	538	1642	101	1.05	100	18	539	1575	251	1.01	83	-	-	-
550	12	559	1825	150	1.04	67	7	565	1721	180	0.96	86	19	561	1787	165	1.01	74	-	-	-
575	13	587	2123	255	1.05	85	12	584	1990	379	1.00	92	25	585	2059	321	1.03	88	-	-	-
600	10	612	2298	400	1.01	80	9	610	2128	349	0.94	78	19	611	2217	376	0.97	79	-	-	-
625	6	640	2358	269	0.90	67	8	636	2666	152	1.04	100	14	638	2534	255	0.98	86	-	-	-
650	8	662	3088	210	1.07	100	4	671	3088	497	1.02	100	13	665	3131	335	1.07	100	-	-	-
675	4	688	3475	150	1.07	100	5	685	3135	510	0.97	100	10	685	3338	422	1.04	100	-	-	-
700	6	712	3217	1508	0.89	100	4	718	4119	419	1.12	100	11	713	3593	1178	0.99	100	-	-	-
725	2	738	4075	35	1.01	100	1	742	4100	-	1.00	100	3	739	4083	29	1.01	100	-	-	-
750	2	768	5303	110	1.17	100	1	768	4950	-	1.09	100	3	768	5185	218	1.15	100	-	-	-
775	-	-	-	-	-	-	1	778	4450	-	0.94	100	1	778	4450	-	0.94	100	-	-	-
800	1	808	6050	-	1.15	100	-	-	-	-	-	-	1	808	6050	-	1.15	100	-	-	-
825	1	825	7000	-	1.25	100	-	-	-	-	-	-	1	825	7000	-	1.25	100	-	-	-
TOTAL	133						78						216								
MEAN		526	1796	1264	1.01			562	2032	1112	1.01			538	1892	1231	1.02				

Table 8. Biological data by age group for lake trout caught by experimental nets from North Henik Lake, 1980.

AGE (YR)	MALES							FEMALES						COMBINED							
	N	LENGTH(MM)		WEIGHT(G)		K	MAT	N	LENGTH(MM)		WEIGHT(G)		K	MAT	N	LENGTH(MM)		WEIGHT(G)		K	MAT
		MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD		
5	2	229	24.0	50	0	0.43	0	1	231	-	60	-	0.49	0	3	230	17.0	53	6	0.45	0
6	6	231	23.5	87	52	0.68	0	1	262	-	150	-	0.83	0	7	235	24.5	96	53	0.70	0
7	2	263	46.7	213	53	1.20	0	1	242	-	250	-	1.76	0	3	256	35.2	225	43	1.39	0
8	5	319	23.6	350	106	1.07	0	-	-	-	-	-	-	5	319	23.6	350	106	1.07	0	
9	3	355	46.0	483	225	1.02	0	2	322	17.7	275	35	0.83	0	5	342	38.4	400	197	0.94	0
10	4	384	43.4	613	193	1.05	0	2	356	53.7	475	247	1.00	0	6	375	43.8	567	199	1.03	0
11	3	402	17.2	700	50	1.08	0	3	408	33.5	717	176	1.04	0	6	405	24.0	708	116	1.06	0
12	3	427	18.5	842	52	1.09	0	1	422	-	800	-	1.06	0	4	426	15.3	831	47	1.08	0
13	8	441	54.0	909	329	1.03	13	1	406	-	750	-	1.12	0	9	437	51.8	892	312	1.04	11
14	8	504	39.6	1331	324	1.02	38	3	483	33.7	1550	673	1.36	33	11	498	37.6	1391	418	1.12	36
15	5	494	62.0	1325	541	1.05	20	4	481	34.7	1050	158	0.94	0	9	488	49.1	1203	421	1.00	11
16	5	518	24.7	1523	196	1.09	40	1	448	-	950	-	1.06	0	6	506	36.0	1428	292	1.09	33
17	2	544	26.2	1675	106	1.06	100	3	552	45.4	2143	666	1.25	67	5	549	35.0	1956	539	1.17	80
18	3	552	38.5	1467	751	0.85	67	1	605	-	2350	-	1.06	100	4	566	41.0	1688	755	0.91	75
19	2	514	4.2	1476	36	1.09	100	3	623	52.7	2633	850	1.06	67	5	579	70.4	2170	874	1.07	80
20	4	587	45.5	2288	536	1.13	25	4	632	104.8	2725	1243	1.04	100	8	609	78.6	2506	916	1.08	63
21	4	589	35.8	1988	405	0.97	100	4	597	50.8	2250	640	1.03	100	8	593	40.9	2119	515	1.00	100
22	4	573	37.4	2125	357	1.13	75	2	603	18.4	2150	212	0.98	100	6	583	33.8	2133	293	1.08	83
23	-	-	-	-	-	-	-	2	645	59.4	2538	407	0.95	100	2	645	59.4	2538	407	0.95	100
24	3	606	90.6	2625	1397	1.11	100	3	593	25.4	2133	637	1.01	100	6	600	59.9	2379	1008	1.06	100
25	4	596	65.9	2081	1023	0.94	50	1	497	-	1000	-	0.81	0	5	576	72.1	1865	1009	0.92	40
26	7	620	57.4	2514	726	1.03	100	4	603	57.1	2038	917	0.89	100	11	614	55.1	2341	791	0.98	100
27	5	652	55.7	2690	895	0.95	80	2	601	7.8	2075	389	0.96	50	7	637	52.1	2514	806	0.95	71
28	4	549	47.1	1875	429	1.15	100	4	648	72.2	2981	1151	1.05	100	8	598	77.4	2428	998	1.10	100
29	3	582	35.5	1925	347	0.97	100	1	595	-	2150	-	1.02	100	4	586	29.7	1981	305	0.98	100
30	2	618	42.4	2050	354	0.87	100	2	626	14.1	2250	636	0.91	100	4	622	26.2	2150	436	0.89	100
31	5	602	50.4	2370	731	1.06	80	2	604	36.8	2000	566	0.89	100	7	603	43.8	2264	665	1.01	86
32	1	685	-	3400	-	1.06	100	4	602	44.2	2213	559	1.00	100	5	618	53.4	2450	719	1.01	100
33	1	638	-	2300	-	0.89	0	1	609	-	1700	-	0.75	0	2	624	20.5	2000	424	0.82	0
34	3	600	15.9	2367	153	1.10	100	-	-	-	-	-	-	3	600	15.9	2367	153	1.10	100	
35	4	750	59.7	4831	1648	1.11	100	3	644	82.1	3100	1473	1.08	100	7	704	84.9	4089	1714	1.10	100
36	2	606	62.9	2375	955	1.04	100	2	592	75.7	2100	566	1.01	100	4	599	57.4	2238	660	1.02	100
37	2	598	47.4	2300	566	1.07	100	1	688	-	3400	-	1.04	100	3	628	62.1	2667	751	1.06	100
38	2	674	134.4	3690	2390	1.11	100	4	682	43.9	2913	809	0.91	100	6	679	69.1	3172	1302	0.98	100
39	4	681	61.1	2769	1843	0.89	100	1	718	-	4350	-	1.18	100	5	688	55.5	3085	1745	0.94	100
40	1	656	-	2700	-	0.96	100	-	-	-	-	-	-	1	656	-	2700	-	0.96	100	
41	1	698	-	3600	-	1.06	100	-	-	-	-	-	-	1	698	-	3600	-	1.06	100	
45	1	713	-	2750	-	0.76	100	1	718	-	3500	-	0.95	100	2	716	3.5	3125	530	0.85	100
47	1	738	-	4050	-	1.01	100	-	-	-	-	-	-	1	738	-	4050	-	1.01	100	
48	1	808	-	6050	-	1.15	100	-	-	-	-	-	-	1	808	-	6050	-	1.15	100	
TOTAL	130							75						205							
MEAN		528	139	1810	1271	1.01			560	120.0	2009	1077	1.01			540	132.8	1883	1205	1.01	
MEAN AGE	22.1																				

Table 9. Biological data by length interval for lake whitefish caught by experimental nets from North Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	N	LENGTH(MM) MEAN	WEIGHT(G) MEAN SD		K	% MAT	N	LENGTH(MM) MEAN	WEIGHT(G) MEAN SD		K	% MAT	N	LENGTH(MM) MEAN	WEIGHT(G) MEAN SD		K	% MAT
270	1	278	250	-	1.16	0	-	-	-	-	-	-	1	278	250	-	1.16	0
360	-	-	-	-	-	-	1	365	600	-	1.23	0	1	365	600	-	1.23	0
370	1	374	800	-	1.53	100	-	-	-	-	-	-	1	374	800	-	1.53	100
390	-	-	-	-	-	-	1	397	850	-	1.36	0	1	397	850	-	1.36	0
430	1	433	1325	-	1.63	100	-	-	-	-	-	-	1	433	1325	-	1.63	100
460	-	-	-	-	-	-	1	466	1700	-	1.68	100	1	466	1700	-	1.68	100
470	1	472	1600	-	1.52	0	1	472	1600	-	1.52	0	1	472	1600	-	1.52	0
520	1	525	2450	-	1.69	100	-	-	-	-	-	-	1	525	2450	-	1.69	100
530	1	534	2300	-	1.51	100	1	538	2700	-	1.73	100	2	536	2500	283	1.62	100
540	-	-	-	-	-	-	1	544	2400	-	1.49	100	1	544	2400	-	1.49	100
550	3	556	2700	400	1.57	67	1	555	2700	-	1.58	0	3	556	2700	400	1.57	67
560	3	563	2833	115	1.59	100	-	-	-	-	-	-	3	563	2833	115	1.59	100
570	1	575	2400	-	1.26	100	2	571	3200	141	1.72	100	3	572	2933	473	1.57	100
580	3	585	3017	29	1.51	100	4	584	3175	171	1.60	100	7	584	3107	148	1.56	100
600	1	605	3400	-	1.54	100	1	605	3200	-	1.45	100	2	605	3300	141	1.49	100
610	-	-	-	-	-	-	1	619	3400	-	1.43	100	1	619	3400	-	1.43	100
620	-	-	-	-	-	-	2	622	3363	371	1.40	100	2	622	3363	371	1.40	100
630	-	-	-	-	-	-	1	636	4150	-	1.61	100	1	636	4150	-	1.61	100
TOTAL MEAN	17	524	2363	876	1.52		18	551	2729	954	1.54		33	539	2576	935	1.53	

Table 12. Biological data by age group for round whitefish caught by experimental nets from North Henik Lake, 1980.

AGE (YR)	MALES							FEMALES							COMBINED						
	LENGTH(MM)			WEIGHT(G)		%		LENGTH(MM)			WEIGHT(G)		%		LENGTH(MM)			WEIGHT(G)		%	
	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT
5	-	-	-	-	-	-	-	3	252	44.1	147	92	0.79	67	3	252	44.1	147	92	0.79	67
6	2	260	17.0	200	0	1.15	0	-	-	-	-	-	-	2	260	17.0	200	0	1.15	0	
7	1	293	-	300	-	1.19	0	1	296	-	200	-	0.77	100	2	295	2.1	250	71	0.98	50
TOTAL	3							4							7						
MEAN		271	23	233	58	1.17			263	42.3	160	80	0.79		266	32.9	191	76	0.95		
MEAN AGE		5.9																			

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Table 13. Biological data by length interval for cisco caught by experimental nets from North Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES							FEMALES							COMBINED						
	LENGTH(MM)			WEIGHT(G)		%		LENGTH(MM)			WEIGHT(G)		%		LENGTH(MM)			WEIGHT(G)		%	
	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT
220	-	-	-	-	-	-	-	1	228		100	-	0.84	0	1	228		100	-	0.84	0
230	2	237		100	0	0.75	100	1	234		75	-	0.59	100	3	236		92	14	0.70	100
240	1	248		100	-	0.66	0	1	242		100	-	0.71	100	2	245		100	0	0.68	50
340	-	-		-	-	-	-	1	340		50	-	0.13	0	1	340		50	-	0.13	0
TOTAL	3							4							7						
MEAN		241		100	0	0.72			261		81	24	0.57		252		89	20	0.63		

Table 14. Biological data by age group for cisco caught by experimental nets from North Henik Lake, 1980.

AGE (YR)	MALES							FEMALES							COMBINED						
	LENGTH(MM)			WEIGHT(G)		K	%	LENGTH(MM)			WEIGHT(G)		K	%	LENGTH(MM)			WEIGHT(G)		K	%
	N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD		
5	-	-	-	-	-	-	-	1	340	-	50	-	0.13	0	1	340	-	50	-	0.13	0
6	-	-	-	-	-	-	-	3	235	7.0	92	14	0.71	67	3	235	7.0	92	14	0.71	67
7	3	241	6.4	100	0	0.72	67	-	-	-	-	-	-	-	3	241	6.4	100	0	0.72	67
TOTAL	3							4							7						
MEAN		241	6.4	100	0	0.72		261	53.0	81	24	0.57		252	39.2	89	20	0.63			
MEAN AGE		6.3																			

Table 15. Biological data by length interval for longnose sucker caught by experimental nets from North Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
190	1	196	80	-	1.06	0	-	-	-	-	-	-	1	196	80	-	1.06	0
TOTAL	1						0						1					
MEAN		196	80	-	1.06									196	80	-	1.06	

Table 16. Biological data by length interval for lake trout caught by tagging nets from North Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		%		LENGTH(MM)		WEIGHT(G)		%		LENGTH(MM)		WEIGHT(G)		%	
	N	MEAN	MEAN	SD	K	MAT	N	MEAN	MEAN	SD	K	MAT	N	MEAN	MEAN	SD	K	MAT
175	1	196	25	-	0.33	0	-	-	-	-	-	-	1	196	25	-	0.33	0
325	2	339	375	35	0.96	0	-	-	-	-	-	-	3	334	375	35	0.96	0
375	-	-	-	-	-	-	-	-	-	-	-	-	1	385	-	-	-	-
450	-	-	-	-	-	-	-	-	-	-	-	-	1	461	-	-	-	-
475	2	490	1375	247	1.16	50	-	-	-	-	-	-	5	485	1375	247	1.16	50
500	2	516	1915	587	1.40	100	1	524	1550	-	1.08	100	8	516	1793	465	1.29	100
525	2	533	1490	226	0.98	100	-	-	-	-	-	-	14	536	1490	226	0.98	100
550	2	569	2465	757	1.35	100	1	564	2250	-	1.25	100	10	563	2393	549	1.32	100
575	2	579	2100	283	1.08	100	-	-	-	-	-	-	7	587	2100	283	1.08	100
600	-	-	-	-	-	-	-	-	-	-	-	-	7	616	-	-	-	-
625	-	-	-	-	-	-	2	631	2525	106	1.00	100	11	634	2525	106	1.00	100
650	-	-	-	-	-	-	1	655	3250	-	1.16	100	12	663	3250	-	1.16	100
675	-	-	-	-	-	-	-	-	-	-	-	-	9	686	-	-	-	-
700	-	-	-	-	-	-	-	-	-	-	-	-	4	711	-	-	-	-
725	-	-	-	-	-	-	-	-	-	-	-	-	5	740	-	-	-	-
750	-	-	-	-	-	-	-	-	-	-	-	-	5	760	-	-	-	-
800	-	-	-	-	-	-	-	-	-	-	-	-	1	806	-	-	-	-
850	-	-	-	-	-	-	-	-	-	-	-	-	2	868	-	-	-	-
875	-	-	-	-	-	-	-	-	-	-	-	-	1	880	-	-	-	-
900	-	-	-	-	-	-	-	-	-	-	-	-	1	900	-	-	-	-
TOTAL MEAN	13	480	1497	855	1.09		5	601	2420	614	1.10		108	610	1754	886	1.09	

Table 17. Biological data by age group for lake trout caught by tagging nets from North Henik Lake, 1980.

AGE (YR)	MALES							FEMALES							COMBINED							
	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	
	N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N
5	1	196	-	25	-	0.33	0	-	-	-	-	-	-	-	-	1	196	-	25	-	0.33	0
8	1	334	-	350	-	0.94	0	-	-	-	-	-	-	-	-	1	334	-	350	-	0.94	0
9	1	344	-	400	-	0.98	0	-	-	-	-	-	-	-	-	1	344	-	400	-	0.98	0
15	2	499	24.0	1350	212	1.08	50	-	-	-	-	-	-	-	-	2	499	24.0	1350	212	1.08	50
16	2	547	44.5	2115	304	1.34	100	-	-	-	-	-	-	-	-	2	547	44.5	2115	304	1.34	100
17	1	498	-	1550	-	1.25	100	-	-	-	-	-	-	-	-	1	498	-	1550	-	1.25	100
18	1	535	-	1650	-	1.08	100	-	-	-	-	-	-	-	-	1	535	-	1650	-	1.08	100
19	1	565	-	3000	-	1.66	100	1	630	-	2450	-	0.98	100	2	598	46.0	2725	389	1.32	100	
20	1	572	-	1930	-	1.03	100	-	-	-	-	-	-	-	-	1	572	-	1930	-	1.03	100
21	-	-	-	-	-	-	-	1	524	-	1550	-	1.08	100	1	524	-	1550	-	1.08	100	
26	-	-	-	-	-	-	-	1	564	-	2250	-	1.25	100	1	564	-	2250	-	1.25	100	
27	1	531	-	1330	-	0.89	100	-	-	-	-	-	-	-	-	1	531	-	1330	-	0.89	100
29	-	-	-	-	-	-	-	1	632	-	2600	-	1.03	100	1	632	-	2600	-	1.03	100	
36	1	580	-	2300	-	1.18	100	-	-	-	-	-	-	-	-	1	580	-	2300	-	1.18	100
TOTAL	13							4							17							
MEAN		480	117	1497	855	1.09			588	52.8	2213	464	1.09			506	113.9	1666	829	1.09		
MEAN AGE	18.6																					

Table 18. Biological data by length interval for lake whitefish caught by tagging nets from North Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
540	1	545	2400	-	1.48	100	-	-	-	-	-	-	1	545	2400	-	1.48	100
560	-	-	-	-	-	-	1	565	3150	-	1.75	100	1	565	3150	-	1.75	100
590	1	598	3800	-	1.78	100	-	-	-	-	-	-	1	598	3800	-	1.78	100
600	-	-	-	-	-	-	1	605	3850	-	1.74	100	1	605	3850	-	1.74	100
610	1	612	3850	-	1.68	100	-	-	-	-	-	-	1	612	3850	-	1.68	100
630	-	-	-	-	-	-	1	630	3900	-	1.56	100	1	630	3900	-	1.56	100
660	-	-	-	-	-	-	1	662	4375	-	1.51	100	1	662	4375	-	1.51	100
TOTAL MEAN	3	585	3350	823	1.65		4	616	3819	505	1.64		7	602	3618	645	1.64	

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Table 19. Biological data by age group for lake whitefish caught by tagging nets from North Henik Lake, 1980.

AGE (YR)	MALES						FEMALES						COMBINED								
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT			
	N	MEAN	SD	MEAN			SD	N	MEAN	SD			MEAN	SD	N	MEAN			SD	MEAN	SD
15	1	612	-	3850	-	1.68	100	-	-	-	-	-	-	1	612	-	3850	-	1.68	100	
16	2	572	37.5	3100	990	1.63	100	-	-	-	-	-	2	572	37.5	3100	990	1.63	100		
17	-	-	-	-	-	-	-	2	598	46.0	3525	530	1.65	100	2	598	46.0	3525	530	1.65	100
18	-	-	-	-	-	-	-	1	662	-	4375	-	1.51	100	1	662	-	4375	-	1.51	100
TOTAL MEAN	3	585	35	3350	823	1.65		3	619	49.4	3808	618	1.60		6	602	42.7	3579	698	1.63	
MEAN AGE	16.5																				

Table 20. Biological data by length interval for lake cisco caught by tagging nets from North Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
200	1	202	80	-	0.97	0	3	204	37	20	0.43	0	4	204	48	27	0.56	0
210	-	-	-	-	-	-	1	218	100	-	0.97	0	1	218	100	-	0.97	0
220	1	226	100	-	0.87	100	4	226	79	40	0.69	50	5	226	83	36	0.72	60
230	7	236	89	23	0.68	100	9	234	106	43	0.84	100	16	235	98	36	0.77	100
240	6	244	83	26	0.57	100	12	246	105	34	0.71	100	18	245	98	32	0.66	100
250	5	254	105	37	0.64	100	3	257	150	50	0.88	100	8	255	122	45	0.73	100
260	-	-	-	-	-	-	1	265	60	-	0.32	100	1	265	60	-	0.32	100
270	1	273	200	-	0.98	100	2	271	200	71	1.01	100	3	271	200	50	1.00	100
290	1	291	175	-	0.71	100	-	-	-	-	-	-	1	291	175	-	0.71	100
TOTAL MEAN	22	245	100	38	0.68		35	239	104	50	0.74		57	241	103	46	0.72	

Table 21. Biological data by age group for lake cisco caught by tagging nets from North Henik Lake, 1980.

AGE (YR)	MALES						FEMALES						COMBINED								
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%			
	N	MEAN	SD	MEAN			SD	N	MEAN	SD			MEAN	SD	N	MEAN			SD	MEAN	SD
4	1	202	-	80	-	0.97	0	1	226	-	50	-	0.43	0	2	214	17.0	65	21	0.70	0
5	-	-	-	-	-	-	-	2	203	2.8	26	1	0.30	0	2	203	2.8	26	1	0.30	0
6	12	249	18.2	106	48	0.67	100	19	240	15.6	98	36	0.71	89	31	244	17.0	101	40	0.69	94
7	9	243	7.5	94	24	0.66	100	13	244	12.5	130	56	0.88	92	22	243	10.5	115	48	0.79	95
TOTAL MEAN MEAN AGE	22	245	17	100	38	0.68		35	239	16.6	104	50	0.74		57	241	16.9	103	46	0.72	

Table 22. Biological data by length interval for burbot caught by tagging nets from North Henik Lake, 1980.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)		ROUND WEIGHT(G)	
			MEAN	SD	MEAN	SD
220	1	100	221	-	50	-
TOTAL MEAN	1		221		50	-

Table 23. Biological data by age group for burbot caught by tagging nets from North Henik Lake, 1980.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		ROUND WEIGHT(G)	
			MEAN	SD	MEAN	SD
8	1	100	221	-	50	-
TOTAL MEAN	1		221		50	
MEAN AGE	8.0					

Table 24. Catch and catch per unit effort (CPE) data for fish caught by experimental gillnets from South Henik Lake, 1980.

		Mesh Size					Total Catch (kg)	CPE ¹
		1.5 38	2.5 64	3.5 89	4.5 114	5.5 (in) 139 (mm)		
Lake trout	No.	84	63	48	58	36	289	10.80
	%	29.1	21.8	16.6	20.1	12.5	79.8	
Lake whitefish	No.	2	4	-	7	5	18	0.67
	%	11.1	22.2	-	38.9	27.8	5.0	
Round whitefish	No.	28	8	3	1	-	40	1.49
	%	70.0	20.0	7.5	2.5	-	11.0	
Cisco	No.	14	-	-	-	-	14	0.52
	%	100.0	-	-	-	-	3.9	
Arctic grayling	No.	-	2	-	-	-	2	0.04
	%	-	100.0	-	-	-	0.3	
Total	No.	128	77	51	66	41	363	13.56
	%	35.4	21.2	14.1	18.2	11.3		

¹ No. fish caught/100 m gillnet/24 hours.

Table 25. Biological data by length interval for lake trout caught by experimental nets from South Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
175	-	-	-	-	-	-	2	185	63	18	0.98	0	2	185	63	18	0.98	0
200	2	210	863	1114	8.22	50	1	205	100	-	1.16	0	4	210	481	779	4.65	25
225	1	248	150	-	0.98	0	1	225	100	-	0.88	0	2	237	125	35	0.93	0
250	-	-	-	-	-	-	1	253	150	-	0.93	0	1	253	150	-	0.93	0
275	1	282	225	-	1.00	0	1	284	300	-	1.31	0	2	283	263	53	1.16	0
300	3	307	1050	1256	3.78	0	-	-	-	-	-	-	3	307	1050	1256	3.78	0
325	3	331	380	30	1.05	0	1	337	150	-	0.39	0	4	333	323	118	0.88	0
350	1	355	460	-	1.03	0	3	366	532	88	1.08	0	4	364	514	80	1.06	0
375	-	-	-	-	-	-	1	380	650	-	1.18	0	1	380	650	-	1.18	0
400	2	412	700	0	1.01	0	-	-	-	-	-	-	2	412	700	0	1.01	0
425	-	-	-	-	-	-	2	432	890	14	1.10	0	2	432	890	14	1.10	0
450	-	-	-	-	-	-	1	450	1000	-	1.10	0	1	450	1000	-	1.10	0
475	1	478	1150	-	1.05	0	2	486	1205	218	1.04	50	3	483	1186	158	1.05	33
500	1	501	1450	-	1.15	100	1	519	1550	-	1.11	100	2	510	1500	71	1.13	100
525	5	543	1720	115	1.07	80	7	539	1800	216	1.15	100	12	541	1767	179	1.12	92
550	14	567	2022	134	1.11	93	2	562	1625	530	0.91	100	16	567	1972	229	1.08	94
575	26	587	2064	271	1.02	96	7	587	2343	571	1.16	86	33	587	2123	363	1.05	94
600	32	612	2305	280	1.00	88	9	613	2317	250	1.00	100	41	613	2308	271	1.00	90
625	29	634	2661	363	1.04	86	19	635	2711	616	1.06	89	48	635	2680	474	1.05	88
650	15	662	2895	311	1.00	100	14	658	3018	285	1.06	93	29	660	2954	300	1.03	97
675	18	686	3057	549	0.94	94	16	687	3328	382	1.03	100	35	687	3188	484	0.98	97
700	11	708	3748	370	1.06	91	12	711	3753	353	1.04	100	23	710	3751	353	1.05	96
725	4	733	3795	954	0.97	100	10	733	3701	703	0.94	100	14	733	3728	745	0.95	100
750	2	765	5041	55	1.13	100	2	766	4615	1082	1.03	100	4	765	4828	672	1.08	100
775	-	-	-	-	-	-	4	794	4728	798	0.94	100	4	794	4728	798	0.94	100
825	1	825	6125	-	1.09	100	-	-	-	-	-	-	1	825	6125	-	1.09	100
850	-	-	-	-	-	-	1	855	4550	-	0.73	100	1	855	4550	-	0.73	100
TOTAL MEAN	172	606	2462	916	1.15		120	618	2706	1196	1.04		294	610	2556	1052	1.11	

Table 26. Biological data by age group for lake trout caught by experimental nets from South Henik Lake, 1980.

AGE (YR)	MALES							FEMALES						COMBINED								
	N	LENGTH(MM)		WEIGHT(G)		K	MAT	N	LENGTH(MM)		WEIGHT(G)		K	MAT	N	LENGTH(MM)		WEIGHT(G)		K	MAT	
		MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD			
5	1	200	-	75	-	0.94	0	2	185	7.1	63	18	0.98	0	4	196	14.9	75	20	0.97	0	
6	-	-	-	-	-	-	-	1	337	-	150	-	0.39	0	1	337	-	150	-	0.39	0	
7	1	248	-	150	-	0.98	0	1	225	-	100	-	0.88	0	2	237	16.3	125	35	0.93	0	
8	1	310	-	300	-	1.01	0	2	269	21.9	225	106	1.12	0	3	282	28.5	250	87	1.08	0	
9	4	315	25.8	341	81	1.08	0	1	370	-	580	-	1.15	0	5	326	33.2	389	128	1.09	0	
10	2	382	37.5	580	170	1.03	0	3	370	10.5	555	113	1.09	0	5	374	21.2	565	117	1.07	0	
11	1	301	-	2500	-	9.17	0	-	-	-	-	-	-	-	1	301	-	2500	-	9.17	0	
12	-	-	-	-	-	-	-	2	443	10.6	950	71	1.10	0	2	443	10.6	950	71	1.10	0	
14	1	415	-	700	-	0.98	0	-	-	-	-	-	-	-	1	415	-	700	-	0.98	0	
15	2	572	48.1	2250	778	1.17	100	3	543	115.5	1877	1066	1.09	33	5	555	86.6	2026	872	1.12	60	
16	7	551	39.1	1821	370	1.08	57	5	581	61.6	1822	644	0.92	60	12	563	49.6	1822	475	1.01	58	
17	4	548	35.0	1825	380	1.10	75	1	572	-	2000	-	1.07	100	5	553	32.2	1860	338	1.09	80	
18	5	521	169.7	2138	452	3.94	100	2	499	29.0	1300	354	1.04	50	7	515	139.5	1899	569	3.11	86	
19	11	611	37.0	2336	393	1.02	73	5	604	45.0	2480	896	1.09	100	16	609	38.2	2381	567	1.05	81	
20	9	613	29.5	2444	317	1.06	89	5	578	50.6	2165	649	1.10	100	14	600	40.5	2344	459	1.07	93	
21	6	606	37.9	2258	196	1.03	100	4	658	27.2	2975	403	1.04	100	10	627	42.1	2545	461	1.03	100	
22	5	588	18.3	2145	129	1.06	100	-	-	-	-	-	-	-	5	588	18.3	2145	129	1.06	100	
23	3	613	27.7	2383	300	1.03	100	2	653	86.3	3330	1386	1.16	100	5	629	52.2	2762	891	1.08	100	
24	2	611	19.1	2125	177	0.93	50	6	668	77.3	3125	791	1.05	100	8	653	70.9	2875	816	1.02	88	
25	8	624	35.1	2579	606	1.05	100	5	642	71.3	3000	677	1.14	100	13	631	50.0	2741	642	1.08	100	
26	16	637	48.1	2656	767	1.00	100	7	650	46.5	2883	556	1.04	100	23	641	47.0	2725	705	1.02	100	
27	17	647	51.0	2864	621	1.05	100	7	683	39.2	3436	760	1.07	100	24	658	50.0	3031	699	1.05	100	
28	15	643	46.9	2833	839	1.04	93	10	672	66.7	3280	1233	1.04	100	25	655	56.2	3012	1015	1.04	96	
29	5	651	29.6	2892	657	1.04	100	5	660	24.8	2590	549	0.90	100	10	656	26.2	2741	593	0.97	100	
30	5	662	47.8	2900	820	0.98	100	2	648	3.5	2300	354	0.85	100	7	658	39.7	2729	745	0.94	100	
31	4	643	125.6	3144	2000	1.09	100	2	618	14.1	2613	725	1.10	100	6	635	98.3	2967	1607	1.09	100	
32	6	666	65.5	2806	1328	0.89	83	3	733	57.1	3525	843	0.89	100	9	688	68.2	3046	1187	0.89	89	
33	6	618	29.6	2267	389	0.96	83	4	708	20.3	3538	670	1.00	100	10	654	52.7	2775	815	0.97	90	
34	4	664	19.5	2788	236	0.96	100	4	706	73.0	3025	764	0.87	100	8	685	54.2	2906	539	0.92	100	
35	5	676	45.2	2920	643	0.94	100	3	723	59.2	3913	582	1.04	100	8	693	52.5	3293	773	0.97	100	
36	2	630	7.8	2550	141	1.02	100	1	702	-	3450	-	1.00	100	3	654	42.2	2850	529	1.01	100	
37	2	657	51.6	2840	198	1.01	100	7	677	44.0	3475	356	1.15	100	9	672	43.2	3334	422	1.12	100	
38	2	653	7.1	2800	141	1.01	50	1	765	-	5380	-	1.20	100	3	690	64.9	3660	1493	1.07	67	
39	1	701	-	4400	-	1.28	100	-	-	-	-	-	-	-	1	701	-	4400	-	1.28	100	
40	1	698	-	4450	-	1.31	100	2	689	37.5	3575	672	1.09	100	3	692	27.1	3867	693	1.16	100	
41	-	-	-	-	-	-	-	1	628	-	2150	-	0.87	0	1	628	-	2150	-	0.87	0	
42	1	670	-	2540	-	0.84	100	2	795	84.9	4250	424	0.86	100	3	753	93.9	3680	1032	0.86	100	
43	-	-	-	-	-	-	-	1	626	-	2450	-	1.00	100	1	626	-	2450	-	1.00	100	
45	-	-	-	-	-	-	-	2	706	26.9	3650	212	1.04	100	2	706	26.9	3650	212	1.04	100	
47	-	-	-	-	-	-	-	1	687	-	3450	-	1.06	100	1	687	-	3450	-	1.06	100	
48	1	743	-	2450	-	0.60	100	-	-	-	-	-	-	-	1	743	-	2450	-	0.60	100	
TOTAL	166							115							282							
MEAN		606	99	2452	891	1.16			621	127.3	2716	1188	1.03			611	113.7	2552	1038	1.11		
MEAN AGE	25.3																					

Table 31. Biological data by length interval for cisco caught by experimental nets from South Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	% MAT	LENGTH(MM)		WEIGHT(G)		K	% MAT	LENGTH(MM)		WEIGHT(G)		K	% MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
270	-	-	-	-	-	-	1	275	250	-	1.20	100	1	275	250	-	1.20	100
TOTAL MEAN	0	-	-	-	-	-	1	275	250	-	1.20		1	275	250	-	1.20	

Table 32. Biological data by age group for cisco caught by experimental nets from South Henik Lake, 1980.

AGE (YR)	MALES						FEMALES						COMBINED							
	LENGTH(MM)		WEIGHT(G)		K	% MAT	LENGTH(MM)		WEIGHT(G)		K	% MAT	LENGTH(MM)		WEIGHT(G)		K	% MAT		
	N	MEAN	SD	MEAN			SD	N	MEAN	SD			MEAN	SD	N	MEAN			SD	MEAN
6	-	-	-	-	-	-	1	275	-	250	-	1.20	100	1	275	-	250	-	1.20	100
TOTAL MEAN MEAN AGE	0	-	-	-	-	-	1	275	-	250	-	1.20		1	275	-	250	-	1.20	
		6.0																		

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Table 33. Biological data by length interval for Arctic grayling caught by experimental nets from South Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	% MAT	LENGTH(MM)		WEIGHT(G)		K	% MAT	LENGTH(MM)		WEIGHT(G)		K	% MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
250	-	-	-	-	-	-	1	256	200	-	1.19	0	1	256	200	-	1.19	0
330	-	-	-	-	-	-	1	337	500	-	1.31	0	1	337	500	-	1.31	0
TOTAL MEAN	0	-	-	-	-	-	2	297	350	212	1.25		2	297	350	212	1.25	

Table 34. Biological data by age group for Arctic grayling caught by experimental nets from South Henik Lake, 1980.

AGE (YR)	MALES								FEMALES								COMBINED							
	LENGTH(MM)			WEIGHT(G)			K	MAT	LENGTH(MM)			WEIGHT(G)			K	MAT	LENGTH(MM)			WEIGHT(G)			K	MAT
	N	MEAN	SD	MEAN	SD	N			MEAN	SD	MEAN	SD	N	MEAN			SD	MEAN	SD					
3	-	-	-	-	-	-	-	1	256	-	200	-	1.19	0	1	256	-	200	-	1.19	0			
6	-	-	-	-	-	-	-	1	337	-	500	-	1.31	0	1	337	-	500	-	1.31	0			
TOTAL	0							2							2									
MEAN		-	-	-	-	-			297	57.3	350	212	1.25			297	57.3	350	212	1.25				
MEAN AGE	4.5																							

Table 35. Biological data by length interval for lake trout caught by tagging nets from South Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
150	1	162	50	-	1.18	0	-	-	-	-	-	-	1	162	50	-	1.18	0
175	2	189	50	0	0.74	0	1	182	30	-	0.50	0	3	187	43	12	0.66	0
200	3	211	60	35	0.63	0	1	202	60	-	0.73	0	4	209	60	28	0.65	0
325	2	329	330	28	0.93	0	-	-	-	-	-	-	3	333	330	28	0.93	0
350	1	355	450	-	1.01	0	-	-	-	-	-	-	1	355	450	-	1.01	0
375	1	392	650	-	1.08	0	-	-	-	-	-	-	1	392	650	-	1.08	0
425	-	-	-	-	-	-	1	442	1300	-	1.51	0	1	442	1300	-	1.51	0
475	-	-	-	-	-	-	-	-	-	-	-	-	2	479	-	-	-	-
500	-	-	-	-	-	-	1	521	1350	-	0.95	0	5	514	1350	-	0.95	0
525	2	535	1725	177	1.12	100	-	-	-	-	-	-	5	531	1725	177	1.12	100
550	2	556	1903	103	1.11	100	1	569	2230	-	1.21	100	11	564	2012	203	1.14	100
575	1	599	2100	-	0.98	100	4	587	2288	95	1.13	100	12	587	2250	117	1.10	100
600	2	613	2380	71	1.03	100	-	-	-	-	-	-	21	609	2380	71	1.03	100
625	2	636	2815	544	1.09	100	2	632	2625	318	1.04	100	23	634	2720	380	1.07	100
650	2	673	3000	0	0.98	100	-	-	-	-	-	-	18	663	3000	0	0.98	100
675	-	-	-	-	-	-	-	-	-	-	-	-	7	684	-	-	-	-
700	-	-	-	-	-	-	1	705	4150	-	1.18	100	16	708	4150	-	1.18	100
725	1	738	5000	-	1.24	100	1	728	4100	-	1.06	100	12	734	4550	636	1.15	100
750	2	760	3900	1556	0.89	100	1	753	4200	-	0.98	100	11	755	4000	1114	0.92	100
775	-	-	-	-	-	-	-	-	-	-	-	-	4	783	-	-	-	-
800	-	-	-	-	-	-	2	817	4725	318	0.87	100	5	812	4725	318	0.87	100
825	-	-	-	-	-	-	1	830	6850	-	1.20	100	4	834	6850	-	1.20	100
850	-	-	-	-	-	-	-	-	-	-	-	-	1	850	-	-	-	-
TOTAL MEAN	24	478	1693	1518	0.96		17	599	2831	1776	1.04		171	626	2165	1706	1.00	

Table 36. Biological data by age group for lake trout caught by tagging nets from South Henik Lake, 1980.

AGE (YR)	MALES							FEMALES							COMBINED						
	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT
	N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD		
5	5	192	19.7	46	5	0.71	0	1	182	-	30	-	0.50	0	6	190	18.1	43	8	0.67	0
6	1	215	-	100	-	1.01	0	-	-	-	-	-	-	-	1	215	-	100	-	1.01	0
8	1	355	-	450	-	1.01	0	-	-	-	-	-	-	-	1	355	-	450	-	1.01	0
9	2	359	47.4	480	240	0.99	0	-	-	-	-	-	-	-	2	359	47.4	480	240	0.99	0
11	1	333	-	350	-	0.95	0	-	-	-	-	-	-	-	1	333	-	350	-	0.95	0
14	-	-	-	-	-	-	-	1	442	-	1300	-	1.51	0	1	442	-	1300	-	1.51	0
15	1	542	-	1850	-	1.16	100	-	-	-	-	-	-	-	1	542	-	1850	-	1.16	100
16	1	559	-	1975	-	1.13	100	2	549	38.9	1750	566	1.04	50	3	552	28.2	1825	421	1.07	67
17	1	528	-	1600	-	1.09	100	1	569	-	2230	-	1.21	100	2	549	29.0	1915	445	1.15	100
18	2	592	55.2	2130	424	1.02	100	1	587	-	2350	-	1.16	100	3	590	39.1	2203	326	1.07	100
20	1	599	-	2100	-	0.98	100	-	-	-	-	-	-	-	1	599	-	2100	-	0.98	100
22	2	613	2.8	2380	71	1.03	100	-	-	-	-	-	-	-	2	613	2.8	2380	71	1.03	100
24	1	674	-	3000	-	0.98	100	-	-	-	-	-	-	-	1	674	-	3000	-	0.98	100
27	1	641	-	3200	-	1.21	100	1	593	-	2350	-	1.13	100	2	617	33.9	2775	601	1.17	100
28	-	-	-	-	-	-	-	2	680	68.6	3475	884	1.10	100	2	680	68.6	3475	884	1.10	100
29	-	-	-	-	-	-	-	1	824	-	4500	-	0.80	100	1	824	-	4500	-	0.80	100
30	1	765	-	2800	-	0.63	100	-	-	-	-	-	-	-	1	765	-	2800	-	0.63	100
31	-	-	-	-	-	-	-	2	782	40.3	4575	530	0.96	100	2	782	40.3	4575	530	0.96	100
32	-	-	-	-	-	-	-	1	633	-	2400	-	0.95	100	1	633	-	2400	-	0.95	100
35	1	738	-	5000	-	1.24	100	-	-	-	-	-	-	-	1	738	-	5000	-	1.24	100
37	1	755	-	5000	-	1.16	100	1	705	-	4150	-	1.18	100	2	730	35.4	4575	601	1.17	100
45	-	-	-	-	-	-	-	1	830	-	6850	-	1.20	100	1	830	-	6850	-	1.20	100
50	1	672	-	3000	-	0.99	100	-	-	-	-	-	-	-	1	672	-	3000	-	0.99	100
TOTAL	24							15							39						
MEAN		478	205	1693	1518	0.96			626	168.6	3051	1728	1.06			535	203.3	2215	1715	1.00	
MEAN AGE	20.3																				

Table 39. Biological data by length interval for round whitefish caught by tagging nets from South Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
180	1	185	75	-	1.18	-	-	-	-	-	-	-	1	185	75	-	1.18	-
210	-	-	-	-	-	-	2	216	100	0	0.99	50	2	216	100	0	0.99	50
220	2	223	100	0	0.90	50	1	222	100	-	0.91	0	3	223	100	0	0.91	33
230	2	237	150	71	1.12	50	-	-	-	-	-	-	2	237	150	71	1.12	50
260	-	-	-	-	-	-	1	265	200	-	1.07	100	1	265	200	-	1.07	100
270	3	274	210	17	1.02	100	1	278	250	-	1.16	100	4	275	220	24	1.05	100
280	-	-	-	-	-	-	3	283	258	19	1.14	100	3	283	258	19	1.14	100
290	2	294	275	35	1.08	100	1	290	300	-	1.23	100	3	293	283	29	1.13	100
300	-	-	-	-	-	-	2	304	350	0	1.25	100	2	304	350	0	1.25	100
310	1	314	300	-	0.97	100	-	-	-	-	-	-	1	314	300	-	0.97	100
TOTAL MEAN	11	257	187	82	1.04		11	268	230	94	1.12		22	262	208	89	1.08	

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Table 40. Biological data by age group for round whitefish caught by tagging nets from South Henik Lake, 1980.

AGE (YR)	MALES						FEMALES						COMBINED								
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%			
	N	MEAN	SD	MEAN			SD	N	MEAN	SD			MEAN	SD	N	MEAN			SD	MEAN	SD
4	3	214	26.4	92	14	0.95	100	3	218	4.0	100	0	0.97	33	6	216	17.0	96	10	0.96	60
5	5	260	27.9	190	55	1.07	60	1	282	-	280	-	1.25	100	6	264	26.6	205	61	1.10	67
6	1	278	-	230	-	1.07	100	6	288	14.7	283	61	1.16	100	7	287	13.9	275	59	1.15	100
7	2	305	12.7	300	0	1.06	100	1	278	-	250	-	1.16	100	3	296	18.0	283	29	1.10	100
TOTAL MEAN MEAN AGE	11	257	39	187	82	1.04		11	268	33.7	230	94	1.12		22	262	36.0	208	89	1.08	

Table 41. Biological data by length interval for lake cisco caught by tagging nets from South Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
210	1	217	60	-	0.59	0	1	219	60	-	0.57	100	2	218	60	0	0.58	50
220	-	-	-	-	-	-	1	226	100	-	0.87	0	1	226	100	-	0.87	0
240	1	247	125	-	0.83	100	1	245	100	-	0.68	100	2	246	113	18	0.75	100
250	5	254	143	11	0.87	100	1	255	150	-	0.90	100	6	255	144	10	0.88	100
260	3	264	153	6	0.83	100	3	264	150	0	0.81	100	6	264	152	4	0.82	100
TOTAL MEAN	10	253	136	29	0.83		7	248	123	36	0.78		17	251	131	32	0.81	

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Table 42. Biological data by age group for lake cisco caught by tagging nets from South Henik Lake, 1980.

AGE (YR)	MALES						FEMALES						COMBINED								
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT			
	N	MEAN	SD	MEAN			SD	N	MEAN	SD			MEAN	SD	N	MEAN			SD	MEAN	SD
5	2	237	28.3	93	46	0.66	50	4	238	19.0	103	37	0.74	75	6	238	19.4	99	36	0.71	67
6	4	254	5.9	141	12	0.86	100	1	267	-	150	-	0.79	100	5	257	7.8	143	11	0.85	100
7	2	266	2.8	155	7	0.82	100	-	-	-	-	-	-	-	2	266	2.8	155	7	0.82	100
8	1	253	-	150	-	0.93	100	-	-	-	-	-	-	-	1	253	-	150	-	0.93	100
TOTAL MEAN MEAN AGE	9	253	15	134	30	0.82		5	244	21.0	112	38	0.75		14	250	17.1	126	34	0.79	

Table 43. Biological data by length interval for Arctic grayling caught by tagging nets from South Henik Lake, 1980.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)		
	N	MEAN	SD	K	MAT	N	MEAN	SD	K	MAT	N	MEAN	SD	K	MAT			
360	1	365	-	1.23	100	-	-	-	-	-	1	365	-	1.23	100			
TOTAL MEAN	1	365	-	1.23		0	-	-	-	-	1	365	-	1.23				

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Table 44. Biological data by age group for Arctic grayling caught by tagging nets from South Henik Lake, 1980.

AGE (YR)	MALES						FEMALES						COMBINED					
	LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)		
	N	MEAN	SD	K	MAT	N	MEAN	SD	K	MAT	N	MEAN	SD	K	MAT			
7	1	365	-	1.23	100	-	-	-	-	-	1	365	-	1.23	100			
TOTAL MEAN MEAN AGE	1	365	-	1.23		0	-	-	-	-	1	365	-	1.23	7.0			

Table 45. Summary of information pertaining to lodge operation and creel census survey at Nueltin Lake, 1981.

Location	Period	Lodge Operation			Creel Census						
		Duration (days)	No. of Guests Estimated	License Sales ¹	Angler-days ²	Period	Duration (days) Total	No. Anglers	Angler-days	Angler-hours	
Treeline Lodge (Manitoba)	13 June	92	224 ³	NA	1 472	27 June	43	23	48 ³	368 ⁴	NA
	12 September										
Nueltin Narrows Camp (N.W.T.)	13 June	92	84 ⁵	123	473	27 June	43	14	12	72	NA
	12 September										

¹ Provided by Dept. Renewable Resource, Government of Northwest Territories.² Estimated from number anglers interviewed during creel census.³ Estimation based on 16 guests per week.⁴ Estimation based on an average of 16 anglers per day.⁵ Estimation based on an average of 6 guests per week.

Table 46. Observed catch, effort and catch/effort statistics of anglers during the creel census survey at Nueltin Lake, 1981.

Location	Species	Catch		Angler effort		Fish per angler		Fish per angler-day		Fish per angler-hour	
		No.	Wt (kg)	days	hours	No.	Wt (kg)	No.	Wt (kg)	No.	Wt (kg)
Treeline Lodge (Manitoba)	lake trout ¹	4 426	11 065)	368	NA	92.2	230.5	12.0	30.1	NA	NA
	northern pike ²	653	1 567)			13.6	4.3	1.8	4.3	NA	NA
	Arctic grayling	14	NA)			0.3	NA	0.4	NA	NA	NA
Nueltin Narrows Camp (N.W.T.)	lake trout ¹	1 006	2 515)	72	NA	83.8	209.6	14.0	34.9	NA	NA
	Arctic grayling	15	NA)			1.3	NA	0.2	NA	NA	NA
Total	lake trout ¹	5 432	13 580)	440	NA	90.5	226.3	12.4	30.9	NA	NA
	northern pike ²	653	1 567)			10.9	26.1	1.5	3.6	NA	NA
	Arctic grayling	29	NA)			0.5	NA	<0.1	NA	NA	NA

¹ Mean weight = 2.5 kg.² Mean weight = 2.4 kg.

NA = Not available.

Table 47. Summary of harvest statistics for Nueltin Lake, 1981.

Location	Species	Census Harvest ¹		Total Harvest ²		Hectare fished		Harvest per Hectare available		Angler	
		No.	Wt(kg)	No.	Wt(kg)	No.	Wt(kg)	No.	Wt(kg)	No.	Wt(kg)
Treeline Lodge (Manitoba)	lake trout ⁴	578	1 445	3 389	8 474	0.80 ⁶	2.00	0.05 ⁶	0.11	15.1	37.8
	northern pike ⁵	2	5	190	456	0.04	0.11	<0.01	0.01	0.9	2.0
	Arctic grayling	0	0	4	NA	<0.01	NA	<0.01	NA	<0.1	NA
Nueltin Narrows Camp (N.W.T.)	lake trout ⁴	19	48	579	1 448	0.06	0.14	<0.01	0.01	6.9	17.2
	Arctic grayling	0	0	7	NA	<0.01	NA	<0.01	NA	0.1	NA
Total	lake trout ⁴	597	1 493	3 968	9 922 ³	0.27	0.68	0.02	0.04	12.9	32.2
	northern pike ⁵	2	5	190	456	0.01	0.03	<0.01	<0.01	0.6	1.5
	Arctic grayling	0	0	11	NA	<0.01	NA	<0.01	NA	<0.1	NA

¹ Includes fish retained and shore lunches.² Includes fish retained, shore lunches and release mortality (7%).³ Based on estimated number of guests.⁴ Mean weight = 2.5 kg.⁵ Mean weight = 2.4 kg.⁶ Areas only include that found south of 60°N latitude.

NA = not available.

Table 48. Biological data by length interval for angled lake trout from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED								
	N	LENGTH(MM)		WEIGHT(G)		K	%	N	LENGTH(MM)		WEIGHT(G)		K	%	N	LENGTH(MM)		WEIGHT(G)		K	%
		MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD		
475	1	479	-	1250	-	1.14	100	-	-	-	-	-	-	1	479	-	1250	-	-	1.14	100
525	-	-	-	-	-	-	-	2	541	-	1825	389	1.15	100	2	541	-	1825	389	1.15	100
825	1	837	-	6650	-	1.13	100	-	-	-	-	-	-	1	837	-	6650	-	-	1.13	100
900	2	917	-	9425	601	1.22	100	-	-	-	-	-	-	3	913	-	8967	900	1.18	100	
925	-	-	-	-	-	-	-	-	-	-	-	-	-	1	929	-	10750	-	-	1.34	-
950	-	-	-	-	-	-	-	-	-	-	-	-	-	1	957	-	11250	-	-	1.28	-
975	-	-	-	-	-	-	-	-	-	-	-	-	-	1	996	-	11950	-	-	1.21	-
1100	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1100	-	15000	-	-	1.13	-
TOTAL MEAN	4	787		6688	3869	1.18		2	541		1825	389	1.15	11	829		7945	4593	1.19		

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Table 49. Biological data by age group for angled lake trout from Nueltin Lake, 1981.

AGE (YR)	MALES						FEMALES						COMBINED								
	N	LENGTH(MM)		WEIGHT(G)		K	%	N	LENGTH(MM)		WEIGHT(G)		K	%	N	LENGTH(MM)		WEIGHT(G)		K	%
		MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD		
13	1	479	-	1250	-	1.14	100	1	537	-	1550	-	1.00	100	2	508	41.0	1400	212	1.07	100
23	-	-	-	-	-	-	-	1	545	-	2100	-	1.30	100	1	545	-	2100	-	1.30	100
TOTAL MEAN	1	479		1250		1.14		2	541	5.7	1825	389	1.15	3	520	36.0	1633	431	1.15		
MEAN AGE	16.3																				

Table 50. Catch and catch per unit effort (CPE) data for fish caught by experimental gillnets from Nueltin Lake, 1981.

		Mesh Size					Total Catch (kg)	CPE ¹
		1.5 38	2.5 64	3.5 89	4.5 114	5.5 (in) (mm) 139		
Lake trout	No. %	133 20.8	192 30.0	172 26.9	98 15.3	45 7.0	640 34.0	11.9
Lake whitefish	No. %	77 16.2	131 27.7	152 32.1	71 15.0	42 8.9	473 25.1	8.8
Round whitefish	No. %	16 34.8	28 60.9	2 4.3	- -	- -	46 2.4	0.9
Cisco	No. %	351 85.6	58 14.1	- -	- -	1 0.2	410 21.8	7.6
Northern Pike	No. %	1 11.1	4 44.4	3 33.3	1 11.1	- -	9 0.5	0.2
White Sucker	No. %	2 16.7	7 58.3	1 8.3	2 16.7	- -	12 0.6	0.2
Longnose Sucker	No. %	46 15.9	85 29.3	95 32.8	59 20.3	5 1.7	290 15.4	5.4
Burbot	No. %	1 33.3	2 66.7	- -	- -	- -	3 0.2	<0.1
Total	No. %	627 33.3	507 26.9	425 22.6	231 12.3	93 4.9	1883	35.0

¹ No. fish per 100 m gillnet per 24 h.

Table 51. Biological data by length interval for lake trout caught by experimental nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
150	1	163	50	-	1.15	0	-	-	-	-	-	-	2	164	75	35	1.69	0
175	1	194	100	-	1.37	0	1	178	50	-	0.89	0	9	186	75	22	1.18	0
200	1	205	125	-	1.45	0	1	223	100	-	0.90	0	6	207	104	10	1.18	0
225	1	228	350	-	2.95	0	2	234	138	18	1.08	0	3	232	208	123	1.70	0
250	-	-	-	-	-	-	1	265	350	-	1.88	0	1	265	350	-	1.88	0
275	5	289	300	35	1.24	0	9	288	267	43	1.12	0	14	288	279	43	1.16	0
300	11	309	357	45	1.20	0	9	315	317	66	1.02	0	20	312	339	58	1.12	0
325	12	337	504	162	1.32	8	16	334	423	62	1.13	6	28	336	458	120	1.21	7
350	19	363	524	56	1.09	11	17	364	534	75	1.10	6	36	364	528	65	1.10	8
375	14	385	632	61	1.11	36	17	385	631	79	1.11	18	31	385	631	70	1.11	26
400	14	418	818	82	1.12	14	16	412	822	108	1.18	31	30	415	820	95	1.15	23
425	8	439	956	98	1.14	63	8	438	963	74	1.15	75	16	438	959	84	1.14	69
450	13	461	1138	165	1.16	62	15	463	1113	151	1.13	87	28	462	1125	155	1.14	75
475	18	488	1369	191	1.18	78	20	486	1348	230	1.17	85	38	487	1358	210	1.17	82
500	15	512	1563	315	1.17	93	20	512	1563	271	1.16	100	35	512	1563	286	1.17	97
525	19	538	1803	265	1.16	100	12	535	1813	251	1.18	92	31	537	1806	256	1.17	97
550	14	564	1946	255	1.08	100	15	561	2200	400	1.25	100	29	562	2078	356	1.17	100
575	17	586	2065	203	1.03	100	14	588	2243	405	1.10	100	31	587	2145	318	1.06	100
600	14	611	2432	343	1.06	100	14	612	2386	251	1.04	100	28	611	2409	296	1.05	100
625	13	636	2738	354	1.06	100	7	638	2729	180	1.05	100	20	637	2735	299	1.06	100
650	16	664	2972	765	1.01	100	11	661	2905	267	1.01	100	27	663	2944	605	1.01	100
675	14	687	3479	344	1.07	100	17	688	3352	309	1.03	100	31	687	3409	326	1.05	100
700	12	710	3638	343	1.02	100	10	713	3705	344	1.02	100	22	711	3668	337	1.02	100
725	11	736	4359	637	1.09	100	8	738	4288	751	1.07	100	19	737	4329	668	1.08	100
750	15	762	4990	496	1.13	100	14	763	4861	628	1.10	100	29	762	4928	557	1.11	100
775	7	786	5200	379	1.07	100	12	787	5088	549	1.04	100	19	787	5129	485	1.05	100
800	12	810	6117	675	1.15	100	6	810	5325	606	1.00	100	18	810	5853	742	1.10	100
825	13	838	6865	679	1.17	100	8	835	6300	1148	1.08	100	21	837	6650	904	1.14	100
850	5	858	6980	911	1.10	100	2	867	7075	318	1.09	100	7	861	7007	757	1.10	100
875	4	889	8050	1258	1.15	100	4	886	8188	397	1.18	100	8	887	8119	866	1.16	100
900	2	917	8375	955	1.09	100	4	911	7600	1411	1.01	100	6	913	7858	1240	1.03	100
925	3	933	8450	1788	1.04	100	1	932	10100	-	1.25	100	4	933	8863	1677	1.10	100
950	1	957	12750	-	1.45	100	-	-	-	-	-	-	1	957	12750	-	1.45	100
975	-	-	-	-	-	-	1	985	11900	-	1.25	100	1	985	11900	-	1.25	100
1050	1	1053	10200	-	0.87	100	-	-	-	-	-	-	1	1053	10200	-	0.87	100
TOTAL	326						312						650					
MEAN		575	2678	2240	1.13			552	2366	2036	1.11			557	2480	2152	1.12	

Table 52. Biological data by age group for lake trout caught by experimental nets from Nueltin Lake, 1981.

AGE (YR)	MALES								FEMALES								COMBINED							
	LENGTH(MM)			WEIGHT(G)		K	% MAT	LENGTH(MM)			WEIGHT(G)		K	% MAT	LENGTH(MM)			WEIGHT(G)		K	% MAT			
	N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N	MEAN	SD
5	2	179	21.9	75	35	1.26	0	1	178	-	50	-	0.89	0	6	177	11.6	79	25	1.43	0			
6	2	250	62.9	238	159	1.41	0	-	-	-	-	-	-	-	10	205	32.6	113	87	1.18	0			
7	3	298	16.8	333	104	1.24	0	4	267	43.3	219	103	1.09	0	8	271	42.7	247	120	1.15	0			
8	5	331	35.1	405	87	1.12	0	10	289	28.6	260	84	1.08	0	15	303	36.0	308	108	1.09	0			
9	6	334	36.7	433	144	1.13	0	10	331	37.7	410	139	1.09	0	16	332	36.1	419	136	1.11	0			
10	11	350	42.0	495	142	1.14	9	7	360	41.6	518	153	1.09	0	18	354	40.9	504	143	1.12	6			
11	23	376	60.8	635	242	1.21	9	20	367	46.2	586	236	1.14	15	43	372	54.1	612	238	1.18	12			
12	15	398	65.8	767	393	1.13	27	18	388	50.0	685	313	1.11	22	33	393	57.0	722	348	1.12	24			
13	14	442	75.8	1014	514	1.09	50	21	443	71.5	1032	521	1.11	48	35	442	72.1	1025	511	1.11	49			
14	15	483	57.4	1313	409	1.14	80	17	431	45.6	910	268	1.12	59	32	455	57.0	1099	393	1.13	69			
15	11	475	82.4	1282	684	1.11	64	7	473	46.3	1314	468	1.20	86	18	474	69.0	1294	594	1.15	72			
16	7	514	109.7	1686	860	1.26	86	7	440	81.4	1143	809	1.18	71	14	477	100.5	1414	850	1.22	79			
17	10	523	97.8	1735	947	1.09	80	13	519	52.2	1600	527	1.12	92	23	521	73.5	1659	723	1.11	87			
18	17	532	77.5	1779	749	1.14	88	14	569	96.5	2202	942	1.15	93	31	549	87.1	1970	854	1.14	90			
19	17	573	74.3	2103	714	1.11	100	19	577	69.2	2137	696	1.08	100	36	575	70.6	2121	695	1.10	100			
20	14	600	106.7	2511	1317	1.07	86	14	613	79.1	2400	778	1.03	100	28	607	92.4	2455	1063	1.05	93			
21	15	615	75.1	2660	773	1.13	100	14	585	92.2	2429	887	1.20	93	29	600	83.7	2548	823	1.16	97			
22	15	631	97.8	2923	1252	1.10	100	17	610	97.5	2759	1153	1.18	100	32	620	96.6	2836	1184	1.14	100			
23	24	651	81.5	3213	1350	1.13	100	18	678	77.2	3442	1055	1.09	100	42	663	79.9	3311	1223	1.11	100			
24	22	680	121.1	3759	1811	1.12	100	14	683	108.2	3439	1561	1.03	100	36	681	114.7	3635	1702	1.08	100			
25	15	713	110.9	4113	2086	1.05	100	11	675	71.1	3647	1214	1.15	100	26	697	96.2	3916	1756	1.10	100			
26	11	768	91.4	5209	2174	1.10	100	8	775	82.3	5181	1682	1.07	100	19	771	85.4	5197	1930	1.08	100			
27	9	753	48.1	4800	1302	1.10	100	7	698	77.2	3421	1090	0.99	100	16	729	66.4	4197	1370	1.05	100			
28	7	637	114.5	2893	1646	1.04	100	9	755	37.1	4794	905	1.10	100	16	703	98.0	3963	1572	1.08	100			
29	9	774	81.6	5317	2078	1.09	100	7	780	51.7	5400	1473	1.12	100	16	776	68.1	5353	1781	1.10	100			
30	7	819	100.1	7029	3293	1.20	100	4	814	53.1	5963	1604	1.09	100	11	817	82.8	6641	2751	1.16	100			
31	4	849	13.4	6938	350	1.14	100	2	750	43.1	4375	318	1.04	100	6	816	55.9	6083	1358	1.10	100			
32	4	792	32.4	5688	657	1.14	100	2	868	60.1	6800	212	1.05	100	6	817	53.8	6058	774	1.11	100			
33	2	843	20.5	7025	742	1.17	100	2	902	23.3	8375	955	1.14	100	4	872	38.5	7700	1046	1.16	100			
34	2	837	31.8	7275	1167	1.24	100	-	-	-	-	-	-	-	2	837	31.8	7275	1167	1.24	100			
35	1	843	-	8400	-	1.40	100	-	-	-	-	-	-	-	1	843	-	8400	-	1.40	100			
36	1	918	-	7700	-	1.00	100	3	847	30.7	6467	2013	1.05	100	4	865	43.6	6775	1756	1.04	100			
37	-	-	-	-	-	-	-	1	799	-	4800	-	0.94	100	1	799	-	4800	-	0.94	100			
39	1	819	-	7100	-	1.29	100	-	-	-	-	-	-	-	1	819	-	7100	-	1.29	100			
40	1	930	-	8700	-	1.08	100	1	985	-	11900	-	1.25	100	2	958	38.9	10300	2263	1.16	100			
41	-	-	-	-	-	-	-	1	932	-	10100	-	1.25	100	1	932	-	10100	-	1.25	100			
42	-	-	-	-	-	-	-	1	904	-	8450	-	1.14	100	1	904	-	8450	-	1.14	100			
44	1	828	-	5500	-	0.97	100	-	-	-	-	-	-	-	1	828	-	5500	-	0.97	100			
46	-	-	-	-	-	-	-	1	869	-	6850	-	1.04	100	1	869	-	6850	-	1.04	100			
47	-	-	-	-	-	-	-	1	910	-	5950	-	0.79	100	1	910	-	5950	-	0.79	100			
49	1	1053	-	10200	-	0.87	100	-	-	-	-	-	-	-	1	1053	-	10200	-	0.87	100			
53	1	945	-	6550	-	0.78	100	-	-	-	-	-	-	-	1	945	-	6550	-	0.78	100			
TOTAL	325							306							643									
MEAN		576	173	2684	2241	1.13			552	171.3	2364	2022	1.11			557	178.3	2483	2147	1.12				
MEAN AGE	19.0																							

Table 53. Biological data by length interval for lake whitefish caught by experimental nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
150	1	158	100	-	2.54	0	-	-	-	-	-	-	1	158	100	-	2.54	0
160	-	-	-	-	-	-	-	-	-	-	-	-	2	164	75	35	1.70	0
170	1	172	100	-	1.97	0	1	174	75	-	1.42	0	4	172	69	24	1.34	0
180	6	185	71	25	1.14	0	3	183	75	0	1.23	0	14	185	77	21	1.21	0
190	3	193	117	29	1.61	0	4	193	88	14	1.21	0	12	194	94	24	1.28	0
200	5	205	140	89	1.64	0	-	-	-	-	-	-	10	205	115	67	1.35	0
210	2	213	100	0	1.04	0	1	219	100	-	0.95	0	4	214	106	13	1.08	0
220	2	228	150	0	1.27	0	1	228	200	-	1.69	0	4	226	150	41	1.29	0
230	4	235	150	41	1.16	0	1	238	150	-	1.11	0	5	236	150	35	1.15	0
240	2	244	150	0	1.04	0	1	248	200	-	1.31	0	4	244	163	25	1.12	0
250	1	259	250	-	1.44	0	1	253	200	-	1.24	0	3	257	217	29	1.28	0
260	6	265	233	26	1.25	0	1	264	200	-	1.09	0	8	265	231	26	1.24	0
270	1	270	200	-	1.02	0	-	-	-	-	-	-	2	273	225	35	1.10	0
280	5	284	270	45	1.18	20	1	288	300	-	1.26	0	6	285	275	42	1.19	17
290	5	296	300	35	1.16	0	3	291	283	29	1.15	0	8	294	294	32	1.15	0
300	2	304	325	35	1.16	0	4	305	375	65	1.32	0	6	304	358	58	1.27	0
310	8	316	369	53	1.17	13	5	315	430	27	1.37	20	13	315	392	53	1.25	15
320	8	324	447	34	1.31	13	6	325	392	38	1.15	17	14	324	423	44	1.24	14
330	6	335	483	41	1.29	0	7	333	447	30	1.21	43	13	334	464	39	1.24	23
340	10	344	505	44	1.25	20	6	346	508	58	1.23	50	16	344	506	48	1.24	31
350	3	354	583	58	1.31	67	5	357	600	35	1.32	80	9	355	578	62	1.29	67
360	6	367	608	49	1.23	17	4	363	663	95	1.38	25	10	365	630	71	1.29	20
370	3	372	667	76	1.30	33	5	373	590	114	1.14	60	8	372	619	103	1.20	50
380	1	382	700	-	1.26	100	3	384	750	50	1.32	67	4	384	738	48	1.30	75
390	2	393	775	106	1.28	100	3	394	850	87	1.39	100	5	393	820	91	1.35	100
400	4	404	850	82	1.29	100	2	406	975	106	1.46	50	6	405	892	102	1.35	83
410	3	414	917	76	1.29	67	2	416	950	141	1.32	100	5	415	930	91	1.30	80
420	6	425	1042	86	1.36	50	9	425	1044	118	1.36	100	15	425	1043	103	1.36	80
430	4	435	1063	48	1.29	50	1	430	1050	-	1.32	100	5	434	1060	42	1.30	60
440	2	442	1200	71	1.39	100	3	443	1233	76	1.42	100	5	443	1220	67	1.41	100
450	2	457	1175	177	1.23	50	3	453	1183	58	1.27	100	5	455	1180	97	1.25	80
460	4	464	1313	75	1.31	100	2	465	1525	35	1.52	100	6	464	1383	125	1.38	100
470	2	477	1500	0	1.39	100	4	475	1563	333	1.46	100	6	475	1542	260	1.43	100
480	5	487	1580	91	1.37	100	5	484	1550	166	1.37	100	10	485	1565	127	1.37	100
490	4	496	1738	155	1.42	100	2	493	1625	35	1.36	100	6	495	1700	134	1.40	100
500	17	505	1791	184	1.39	100	15	505	1860	163	1.45	100	32	505	1823	175	1.42	100
510	18	514	1911	157	1.41	100	9	515	1989	232	1.46	100	27	514	1937	184	1.42	100
520	27	525	2022	157	1.40	100	14	525	1975	127	1.36	100	41	525	2006	148	1.39	100
530	11	535	2164	132	1.41	100	21	535	2193	213	1.43	100	32	535	2183	187	1.42	100
540	14	545	2300	116	1.42	100	21	544	2307	246	1.43	100	35	544	2304	202	1.43	100
550	3	553	2317	153	1.37	100	16	555	2394	205	1.40	100	19	554	2382	196	1.40	100
560	6	566	2558	199	1.41	100	11	565	2600	312	1.45	100	17	565	2585	271	1.43	100
570	4	575	2625	166	1.38	100	7	574	2614	366	1.39	100	11	574	2618	298	1.38	100
580	1	581	2700	-	1.38	100	7	584	2886	432	1.45	100	8	584	2863	405	1.44	100
590	1	598	3150	-	1.47	100	-	-	-	-	-	-	1	598	3150	-	1.47	100
600	-	-	-	-	-	-	1	601	3350	-	1.54	100	1	601	3350	-	1.54	100
610	-	-	-	-	-	-	1	613	3150	-	1.37	100	1	613	3150	-	1.37	100
620	-	-	-	-	-	-	1	625	3550	-	1.45	100	1	625	3550	-	1.45	100
630	-	-	-	-	-	-	1	630	4250	-	1.70	100	1	630	4250	-	1.70	100
660	1	666	4250	-	1.44	100	-	-	-	-	-	-	1	666	4250	-	1.44	100
TOTAL	232						224						482					
MEAN		422	1273	867	1.34			462	1598	910	1.37			429	1362	927	1.35	

Table 54. Biological data by age group for lake whitefish caught by experimental nets from Nueltin Lake, 1981.

AGE (YR)	MALES							FEMALES							COMBINED							
	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	
	N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			
2	3	182	9.3	100	0	1.67	0	3	183	3.0	75	0	1.23	0	11	186	10.2	86	17	1.34	0	
3	5	186	5.8	70	27	1.09	0	2	185	14.8	88	18	1.39	0	15	185	11.0	80	24	1.26	0	
4	9	222	24.5	131	53	1.15	0	4	214	22.9	131	55	1.30	0	18	215	22.0	118	51	1.14	0	
5	6	262	34.4	208	74	1.12	0	3	224	37.3	125	66	1.04	0	15	256	41.7	202	97	1.12	0	
6	14	295	58.1	382	241	1.46	14	6	313	25.6	400	122	1.27	17	20	301	50.5	388	209	1.40	15	
7	16	322	28.7	420	133	1.22	0	21	339	53.5	537	412	1.24	10	37	332	44.8	486	324	1.23	5	
8	13	353	43.2	581	346	1.23	31	3	397	64.7	917	501	1.32	67	16	361	48.6	644	384	1.25	38	
9	6	349	43.8	583	244	1.31	17	12	359	52.1	646	411	1.29	58	18	355	48.4	625	357	1.30	44	
10	7	373	44.9	693	237	1.29	29	14	407	43.2	964	398	1.37	93	21	396	45.5	874	370	1.34	71	
11	12	429	53.5	1058	414	1.28	75	11	430	47.1	1123	385	1.36	91	23	429	49.4	1089	393	1.32	83	
12	7	397	47.8	836	359	1.27	57	7	459	48.9	1379	501	1.37	100	14	428	56.5	1107	505	1.32	79	
13	7	495	63.3	1800	624	1.40	100	5	500	33.4	1870	456	1.48	100	12	497	50.9	1829	538	1.43	100	
14	13	498	45.1	1792	455	1.42	100	15	518	37.9	1993	395	1.43	100	28	509	41.8	1900	428	1.42	100	
15	24	519	30.8	1988	362	1.41	100	19	534	37.5	2174	460	1.41	100	43	525	34.3	2070	414	1.41	100	
16	24	516	39.9	1917	431	1.37	96	24	542	33.4	2167	437	1.35	100	48	529	38.6	2042	448	1.36	98	
17	14	525	23.5	2032	309	1.40	100	20	543	28.6	2290	480	1.41	100	34	535	27.8	2184	432	1.41	100	
18	10	528	26.1	2135	385	1.44	100	16	541	10.4	2325	306	1.47	100	26	536	18.6	2252	344	1.46	100	
19	6	567	59.8	2650	921	1.41	100	10	553	21.3	2425	501	1.42	100	16	558	38.9	2509	668	1.41	100	
20	3	549	25.0	2300	265	1.39	100	4	546	15.3	2363	333	1.45	100	7	547	18.1	2336	282	1.43	100	
21	3	542	27.2	2200	589	1.36	100	2	628	3.5	3900	495	1.58	100	5	576	50.8	2880	1050	1.45	100	
22	1	567	-	2250	-	1.23	100	-	-	-	-	-	-	-	1	567	-	2250	-	1.23	100	
TOTAL	203							201							428							
MEAN		425	118	1284	870	1.34		460	109.8	1582	908	1.37			429	124.4	1359	925	1.34			
MEAN AGE	11.9																					

Table 55. Biological data by length interval for round whitefish caught by experimental nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED								
	N	LENGTH(MM)		WEIGHT(G)		K	MAT	N	LENGTH(MM)		WEIGHT(G)		K	MAT	N	LENGTH(MM)		WEIGHT(G)		K	MAT
		MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD				MEAN	SD				
190	3	196		58	14	0.78	0	1	190		50	-	0.73	0	4	194		56	13	0.77	0
200	-	-		-	-	-	-	3	208		58	14	0.65	0	3	208		58	14	0.65	0
230	1	231		50	-	0.41	0	2	235		125	35	0.97	50	3	233		100	50	0.78	33
240	2	246		150	0	1.01	0	-	-		-	-	-	-	2	246		150	0	1.01	0
260	3	266		183	29	0.97	33	-	-		-	-	-	-	3	266		183	29	0.97	33
270	1	276		200	-	0.95	0	-	-		-	-	-	-	1	276		200	-	0.95	0
280	1	283		250	-	1.10	100	-	-		-	-	-	-	1	283		250	-	1.10	100
300	4	306		325	50	1.13	50	1	305		300	-	1.06	100	6	305		317	41	1.11	50
310	-	-		-	-	-	-	3	313		350	50	1.14	100	3	313		350	50	1.14	100
320	2	326		425	35	1.23	100	4	321		363	48	1.10	100	6	322		383	52	1.14	100
330	3	334		383	29	1.03	100	2	337		450	71	1.18	50	5	335		410	55	1.09	80
340	-	-		-	-	-	-	1	342		450	-	1.12	100	1	342		450	-	1.12	100
350	-	-		-	-	-	-	3	351		517	29	1.19	100	3	351		517	29	1.19	100
360	2	361		450	71	0.96	100	2	364		525	35	1.09	100	4	362		488	63	1.03	100
370	-	-		-	-	-	-	1	374		650	-	1.24	100	1	374		650	-	1.24	100
390	-	-		-	-	-	-	1	395		750	-	1.22	100	1	395		750	-	1.22	100
TOTAL MEAN	22			285	260	141	0.99	24			307	359	197	1.05	47			297	312	176	1.02

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Table 56. Biological data by age group for round whitefish caught by experimental nets from Nueltin Lake, 1981.

AGE (YR)	MALES							FEMALES							COMBINED									
	N	LENGTH(MM)		WEIGHT(G)		K	MAT	N	LENGTH(MM)		WEIGHT(G)		K	MAT	N	LENGTH(MM)		WEIGHT(G)		K	MAT			
		MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD				MEAN	SD							
4	4	205	17.7	56	13	0.69	0	2	212	31.1	75	35	0.75	0	6	207	19.9	63	21	0.71	0			
5	2	246	4.2	150	0	1.01	0	2	222	18.4	113	53	0.99	50	4	234	17.6	131	38	1.00	25			
6	5	302	31.1	290	114	1.00	60	1	321	-	300	-	0.91	100	6	305	28.9	292	102	0.99	67			
7	5	296	29.1	300	100	1.12	40	8	322	14.2	381	70	1.13	88	14	311	23.3	346	87	1.12	64			
8	4	325	31.8	363	85	1.05	100	1	352	-	500	-	1.15	100	5	331	30.0	390	96	1.07	100			
9	2	333	41.0	400	141	1.06	100	2	336	19.8	450	71	1.18	100	4	335	26.4	425	96	1.12	100			
10	-	-	-	-	-	-	-	4	358	31.2	550	147	1.18	100	4	358	31.2	550	147	1.18	100			
12	-	-	-	-	-	-	-	1	361	-	550	-	1.17	100	1	361	-	550	-	1.17	100			
TOTAL MEAN MEAN AGE	22			285	51	260	141	0.99	21			314	53.3	375	175	1.09	44			299	53.0	316	165	1.04

Table 59. Biological data by length interval for northern pike caught by experimental nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
500	-	-	-	-	-	-	1	515	900	-	0.66	100	1	515	900	-	0.66	100
640	2	652	2025	35	0.73	100	-	-	-	-	-	-	2	652	2025	35	0.73	100
700	-	-	-	-	-	-	2	708	2800	354	0.79	100	2	708	2800	354	0.79	100
720	-	-	-	-	-	-	1	725	2650	-	0.70	100	1	725	2650	-	0.70	100
740	-	-	-	-	-	-	2	743	2725	247	0.66	100	2	743	2725	247	0.66	100
800	-	-	-	-	-	-	1	815	3100	-	0.57	100	1	815	3100	-	0.57	100
TOTAL MEAN	2	652	2025	35	0.73		7	708	2529	753	0.69		9	695	2417	689	0.70	

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Table 60. Biological data by age group for northern pike caught by experimental nets from Nueltin Lake, 1981.

AGE (YR)	MALES						FEMALES						COMBINED								
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT			
	N	MEAN	SD	MEAN			SD	N	MEAN	SD			MEAN	SD	N	MEAN			SD	MEAN	SD
6	-	-	-	-	-	-	2	609	132.2	1725	1167	0.70	100	2	609	132.2	1725	1167	0.70	100	
8	1	655	-	2000	-	0.71	100	2	730	23.3	2975	106	0.77	100	3	705	46.1	2650	568	0.75	100
9	-	-	-	-	-	-	1	725	-	2650	-	0.70	100	1	725	-	2650	-	0.70	100	
10	-	-	-	-	-	-	1	740	-	2550	-	0.63	100	1	740	-	2550	-	0.63	100	
TOTAL MEAN MEAN AGE	1	655	-	2000	-	0.71		6	690	87.4	2433	778	0.71		7	685	80.8	2371	729	0.71	

Table 61. Biological data by length interval for burbot caught by experimental nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED								
	LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)					
	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT
330	1	335	-	200	-	0.53	100	-	-	-	-	-	-	-	1	335	-	200	-	0.53	100
380	1	387	-	400	-	0.69	100	-	-	-	-	-	-	1	387	-	400	-	0.69	100	
440	-	-	-	-	-	-	-	-	-	-	-	-	-	1	443	-	600	-	0.69	-	
TOTAL MEAN	2	361		300	141	0.61		0	-	-	-	-	-	3	388		400	200	0.64		

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Table 62. Biological data by age group for burbot caught by experimental nets from Nueltin Lake, 1981.

AGE (YR)	MALES						FEMALES						COMBINED								
	LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)					
	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT
8	1	335	-	200	-	0.53	100	-	-	-	-	-	-	-	1	335	-	200	-	0.53	100
9	1	387	-	400	-	0.69	100	-	-	-	-	-	-	1	387	-	400	-	0.69	100	
12	-	-	-	-	-	-	-	-	-	-	-	-	-	1	443	-	600	-	0.69	-	
TOTAL MEAN MEAN AGE	2	361	37	300	141	0.61		0	-	-	-	-	-	3	388	54.0	400	200	0.64		

Table 63. Biological data by length interval for longnose sucker caught by experimental nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES										FEMALES					COMBINED						
	N	%	LENGTH(MM)		WEIGHT(G)		K	N	%	LENGTH(MM)		WEIGHT(G)		K	N	%	LENGTH(MM)		WEIGHT(G)		K	% FEMALE
			MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD		
130	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	137	50	0	1.93	-	
140	1	1	146	-	50	-	1.61	-	-	-	-	-	-	6	2	-	147	50	0	1.58	-	
150	-	-	-	-	-	-	-	1	1	158	50	-	1.27	10	3	-	155	58	17	1.54	-	
160	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	162	50	0	1.18	-	
170	2	1	177	-	50	0	0.90	1	1	170	50	-	1.02	8	3	-	175	66	19	1.23	33	
180	-	-	-	-	-	-	-	1	1	184	50	-	0.80	1	0	-	184	50	-	0.80	-	
230	1	1	237	-	250	-	1.88	1	1	230	150	-	1.23	4	1	-	234	200	41	1.55	50	
240	2	1	248	-	225	35	1.49	1	1	241	250	-	1.79	3	1	-	245	233	29	1.59	33	
250	5	4	256	-	240	42	1.43	-	-	-	-	-	-	6	2	-	255	242	38	1.46	-	
260	3	2	266	-	267	29	1.42	1	1	268	300	-	1.56	6	2	-	265	283	26	1.52	25	
270	2	1	274	-	300	0	1.46	2	2	274	275	35	1.34	5	2	-	275	300	35	1.44	50	
280	3	2	283	-	333	29	1.46	2	2	284	325	35	1.42	8	3	-	284	331	26	1.45	40	
290	3	2	298	-	367	29	1.39	1	1	295	400	-	1.56	6	2	-	297	350	45	1.34	25	
300	3	2	305	-	417	29	1.46	-	-	-	-	-	-	3	1	-	305	417	29	1.46	-	
310	2	1	315	-	450	71	1.44	4	3	316	438	63	1.39	6	2	-	316	442	58	1.40	67	
320	2	1	327	-	550	71	1.58	2	2	327	575	106	1.64	4	1	-	327	563	75	1.61	50	
330	8	6	335	-	519	37	1.37	5	4	334	520	27	1.39	13	4	-	335	519	33	1.38	38	
340	3	2	344	-	533	29	1.31	3	3	345	567	29	1.38	6	2	-	345	550	32	1.34	50	
350	8	6	355	-	603	74	1.34	5	4	357	640	55	1.40	13	4	-	356	617	67	1.37	38	
360	4	3	364	-	663	63	1.37	6	5	363	613	38	1.28	10	3	-	363	633	53	1.32	60	
370	6	4	374	-	704	93	1.34	9	8	376	758	77	1.42	15	5	-	375	737	85	1.39	60	
380	5	4	385	-	800	50	1.40	4	3	384	725	65	1.29	9	3	-	384	767	66	1.35	44	
390	12	9	395	-	856	72	1.38	3	3	394	783	29	1.28	15	5	-	395	842	72	1.36	20	
400	13	10	405	-	908	67	1.37	9	8	404	850	35	1.29	22	8	-	404	884	62	1.34	41	
410	5	4	416	-	950	35	1.32	6	5	414	917	82	1.29	11	4	-	415	932	64	1.30	55	
420	9	7	424	-	1028	67	1.35	10	8	425	1005	112	1.30	19	7	-	425	1016	91	1.33	53	
430	10	7	433	-	1123	73	1.38	4	3	435	1113	103	1.36	14	5	-	434	1120	79	1.37	29	
440	14	10	443	-	1196	112	1.37	8	7	445	1169	88	1.33	22	8	-	444	1186	103	1.36	36	
450	5	4	454	-	1270	125	1.36	8	7	453	1222	80	1.31	13	4	-	453	1240	98	1.33	62	
460	2	1	465	-	1238	18	1.23	9	8	465	1350	135	1.35	11	4	-	465	1330	129	1.33	82	
470	2	1	475	-	1350	71	1.26	2	2	471	1400	71	1.34	4	1	-	473	1375	65	1.30	50	
480	-	-	-	-	-	-	-	7	6	483	1457	67	1.29	7	2	-	483	1457	67	1.29	-	
490	-	-	-	-	-	-	-	3	3	493	1675	25	1.40	3	1	-	493	1675	25	1.40	-	
510	1	1	515	-	1750	-	1.28	2	2	514	1775	106	1.31	3	1	-	514	1767	76	1.30	67	
TOTAL MEAN	136		376		791	349	1.38	120		397	909	396	1.34	292			362	758	425	1.38	47	

Table 64. Biological data by length interval for white sucker caught by experimental nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G)	
				MEAN	SD
150	1	8	152	50	-
170	1	8	177	100	-
270	2	17	274	275	35
300	1	8	307	350	-
310	1	8	311	400	-
340	1	8	340	550	-
350	1	8	358	750	-
370	1	8	374	750	-
410	1	8	414	1100	-
480	1	8	483	1550	-
490	1	8	490	1650	-
TOTAL MEAN	12		330	650	534

Table 63. Biological data by length interval for longnose sucker caught by experimental nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES							FEMALES							COMBINED							% FEMALE
	N	%	LENGTH(MM)		WEIGHT(G)		K	N	%	LENGTH(MM)		WEIGHT(G)		K	N	%	LENGTH(MM)		WEIGHT(G)		K	
			MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD				MEAN	SD				
130	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	137	50	0	1.93	-		
140	1	1	146	50	-	1.61	-	-	-	-	-	-	-	6	2	147	50	0	1.58	-		
150	-	-	-	-	-	-	1	1	158	50	-	1.27	10	3	155	58	17	1.54	-			
160	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	162	50	0	1.18	-		
170	2	1	177	50	0	0.90	1	1	170	50	-	1.02	8	3	175	66	19	1.23	33			
180	-	-	-	-	-	-	1	1	184	50	-	0.80	1	0	184	50	-	0.80	-			
230	1	1	237	250	-	1.88	1	1	230	150	-	1.23	4	1	234	200	41	1.55	50			
240	2	1	248	225	35	1.49	1	1	241	250	-	1.79	3	1	245	233	29	1.59	33			
250	5	4	256	240	42	1.43	-	-	-	-	-	-	6	2	255	242	38	1.46	-			
260	3	2	266	267	29	1.42	1	1	268	300	-	1.56	6	2	265	283	26	1.52	25			
270	2	1	274	300	0	1.46	2	2	274	275	35	1.34	5	2	275	300	35	1.44	50			
280	3	2	283	333	29	1.46	2	2	284	325	35	1.42	8	3	284	331	26	1.45	40			
290	3	2	298	367	29	1.39	1	1	295	400	-	1.56	6	2	297	350	45	1.34	25			
300	3	2	305	417	29	1.46	-	-	-	-	-	-	3	1	305	417	29	1.46	-			
310	2	1	315	450	71	1.44	4	3	316	438	63	1.39	6	2	316	442	58	1.40	67			
320	2	1	327	550	71	1.58	2	2	327	575	106	1.64	4	1	327	563	75	1.61	50			
330	8	6	335	519	37	1.37	5	4	334	520	27	1.39	13	4	335	519	33	1.38	38			
340	3	2	344	533	29	1.31	3	3	345	567	29	1.38	6	2	345	550	32	1.34	50			
350	8	6	355	603	74	1.34	5	4	357	640	55	1.40	13	4	356	617	67	1.37	38			
360	4	3	364	663	63	1.37	6	5	363	613	38	1.28	10	3	363	633	53	1.32	60			
370	6	4	374	704	93	1.34	9	8	376	758	77	1.42	15	5	375	737	85	1.39	60			
380	5	4	385	800	50	1.40	4	3	384	725	65	1.29	9	3	384	767	66	1.35	44			
390	12	9	395	856	72	1.38	3	3	394	783	29	1.28	15	5	395	842	72	1.36	20			
400	13	10	405	908	67	1.37	9	8	404	850	35	1.29	22	8	404	884	62	1.34	41			
410	5	4	416	950	35	1.32	6	5	414	917	82	1.29	11	4	415	932	64	1.30	55			
420	9	7	424	1028	67	1.35	10	8	425	1005	112	1.30	19	7	425	1016	91	1.33	53			
430	10	7	433	1123	73	1.38	4	3	435	1113	103	1.36	14	5	434	1120	79	1.37	29			
440	14	10	443	1196	112	1.37	8	7	445	1169	88	1.33	22	8	444	1186	103	1.36	36			
450	5	4	454	1270	125	1.36	8	7	453	1222	80	1.31	13	4	453	1240	98	1.33	62			
460	2	1	465	1238	18	1.23	9	8	465	1350	135	1.35	11	4	465	1330	129	1.33	82			
470	2	1	475	1350	71	1.26	2	2	471	1400	71	1.34	4	1	473	1375	65	1.30	50			
480	-	-	-	-	-	-	7	6	483	1457	67	1.29	7	2	483	1457	67	1.29	-			
490	-	-	-	-	-	-	3	3	493	1675	25	1.40	3	1	493	1675	25	1.40	-			
510	1	1	515	1750	-	1.28	2	2	514	1775	106	1.31	3	1	514	1767	76	1.30	67			
TOTAL	136						120							292								
MEAN			376	791	349	1.38			397	909	396	1.34			362	758	425	1.38	47			

Table 64. Biological data by length interval for white sucker caught by experimental nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G)	
				MEAN	SD
150	1	8	152	50	-
170	1	8	177	100	-
270	2	17	274	275	35
300	1	8	307	350	-
310	1	8	311	400	-
340	1	8	340	550	-
350	1	8	358	750	-
370	1	8	374	750	-
410	1	8	414	1100	-
480	1	8	483	1550	-
490	1	8	490	1650	-
TOTAL MEAN	12		330	650	534

Table 65. Biological data by length interval for lake trout caught by tagging nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
50	-	-	-	-	-	-	-	-	-	-	-	-	1	54	-	-	-	-
150	-	-	-	-	-	-	-	-	-	-	-	-	1	170	50	-	1.02	0
175	2	196	100	0	1.34	0	3	188	75	25	1.14	0	11	189	80	22	1.19	0
200	3	209	100	0	1.10	0	3	210	75	25	0.80	0	7	210	89	20	0.96	0
225	3	233	150	50	1.16	0	-	-	-	-	-	-	3	233	150	50	1.16	0
250	3	268	200	0	1.04	0	3	267	217	29	1.14	0	6	268	208	20	1.09	0
275	2	283	250	0	1.11	0	4	290	256	13	1.06	0	6	287	254	10	1.08	0
300	4	310	350	41	1.18	0	5	310	320	57	1.07	0	9	310	333	50	1.12	0
325	7	343	429	49	1.06	14	5	338	440	42	1.14	0	12	341	433	44	1.09	8
350	3	361	483	58	1.03	0	4	360	494	83	1.06	0	7	360	489	67	1.04	0
375	7	387	600	96	1.03	14	9	390	667	66	1.12	11	18	389	638	85	1.08	13
400	2	409	725	35	1.06	0	-	-	-	-	-	-	4	414	725	35	1.06	0
425	3	439	1000	260	1.18	33	4	434	975	171	1.19	50	10	435	986	193	1.19	43
450	3	453	1083	176	1.16	100	4	461	1125	171	1.15	75	11	458	1107	159	1.15	86
475	1	481	600	-	0.54	100	2	478	1200	283	1.10	100	8	481	1000	400	0.91	100
500	-	-	-	-	-	-	2	511	1825	106	1.37	100	12	510	1825	106	1.37	100
525	2	542	1925	106	1.21	100	1	532	1650	-	1.10	100	15	537	1833	176	1.17	100
550	3	567	1983	29	1.09	100	1	556	2100	-	1.22	100	19	562	2013	63	1.12	100
575	2	583	1900	141	0.96	100	1	594	2000	-	0.95	100	22	588	1933	115	0.96	100
600	-	-	-	-	-	-	3	608	2550	150	1.13	100	11	610	2550	150	1.13	100
625	1	635	2550	-	1.00	100	-	-	-	-	-	-	8	636	2550	-	1.00	100
650	1	672	3300	-	1.09	100	-	-	-	-	-	-	8	664	3300	-	1.09	100
675	1	682	2800	-	0.88	100	-	-	-	-	-	-	10	685	2800	-	0.88	100
700	2	714	3950	707	1.09	100	1	704	3850	-	1.10	100	16	714	3917	503	1.09	100
725	-	-	-	-	-	-	-	-	-	-	-	-	8	736	-	-	-	-
750	1	755	4500	-	1.05	100	1	772	4500	-	0.98	100	11	763	4500	0	1.01	100
775	-	-	-	-	-	-	-	-	-	-	-	-	10	784	-	-	-	-
800	-	-	-	-	-	-	-	-	-	-	-	-	5	816	-	-	-	-
825	-	-	-	-	-	-	-	-	-	-	-	-	18	834	-	-	-	-
850	1	859	8350	-	1.32	100	-	-	-	-	-	-	11	857	8350	-	1.32	100
875	-	-	-	-	-	-	-	-	-	-	-	-	4	889	-	-	-	-
900	-	-	-	-	-	-	-	-	-	-	-	-	3	913	-	-	-	-
925	-	-	-	-	-	-	-	-	-	-	-	-	5	935	-	-	-	-
950	-	-	-	-	-	-	-	-	-	-	-	-	5	959	-	-	-	-
1025	-	-	-	-	-	-	-	-	-	-	-	-	1	1038	-	-	-	-
TOTAL MEAN	57	412	1112	1442	1.09		56	391	895	920	1.11		316	569	943	1193	1.10	

Table 66. Biological data by age group for lake trout caught by tagging nets from Nueltin Lake, 1981.

AGE (YR)	MALES								FEMALES								COMBINED							
	LENGTH(MM)			WEIGHT(G)		K	MAT	%	LENGTH(MM)			WEIGHT(G)		K	MAT	%	LENGTH(MM)			WEIGHT(G)		K	MAT	%
	N	MEAN	SD	MEAN	SD				N	MEAN	SD	MEAN	SD				N	MEAN	SD	MEAN	SD			
5	-	-	-	-	-	-	-	-	2	184	0.7	75	35	1.21	0	5	183	4.3	70	21	1.16	0		
6	3	202	5.3	100	0	1.22	0	4	206	7.8	75	20	0.85	0	10	203	8.1	85	21	1.02	0			
7	4	234	34.9	163	75	1.21	0	1	300	-	250	-	0.93	0	6	238	44.6	167	75	1.21	0			
8	7	280	50.2	243	121	1.04	0	4	282	21.1	263	63	1.15	0	11	281	40.6	250	100	1.08	0			
9	5	323	33.0	390	114	1.13	0	5	300	24.3	305	91	1.10	0	10	312	29.8	348	107	1.11	0			
10	6	349	48.5	475	212	1.07	17	7	340	54.3	443	237	1.06	0	13	344	49.7	458	217	1.07	8			
11	6	367	23.8	533	117	1.07	17	5	372	24.6	590	143	1.13	0	11	369	23.0	559	126	1.10	9			
12	4	435	72.3	925	638	1.00	25	7	394	31.3	704	167	1.14	0	11	409	50.9	784	389	1.09	9			
13	4	400	12.8	688	63	1.07	0	4	407	48.4	663	239	0.96	25	8	403	33.0	675	163	1.02	13			
14	2	580	9.2	1900	141	0.98	100	2	419	33.2	850	141	1.16	100	4	499	95.1	1375	617	1.07	100			
15	1	457	-	1250	-	1.31	100	3	497	87.2	1400	522	1.15	100	4	487	74.0	1363	433	1.19	100			
16	1	451	-	1100	-	1.20	100	2	607	2.8	2550	212	1.14	100	3	555	90.1	2067	850	1.16	100			
17	2	512	95.5	1650	495	1.26	100	-	-	-	-	-	-	-	2	512	95.5	1650	495	1.26	100			
18	4	570	110.1	2325	1505	1.12	100	1	506	-	1750	-	1.35	100	5	557	99.5	2210	1328	1.17	100			
19	-	-	-	-	-	-	-	4	492	37.0	1513	330	1.26	100	4	492	37.0	1513	330	1.26	100			
20	1	682	-	2800	-	0.88	100	1	556	-	2100	-	1.22	100	2	619	89.1	2450	495	1.05	100			
21	2	654	26.2	2925	530	1.04	100	1	611	-	2550	-	1.12	100	3	639	30.7	2800	433	1.07	100			
22	-	-	-	-	-	-	-	1	704	-	3850	-	1.10	100	1	704	-	3850	-	1.10	100			
23	1	709	-	3450	-	0.97	100	-	-	-	-	-	-	-	1	709	-	3450	-	0.97	100			
25	1	567	-	2000	-	1.10	100	-	-	-	-	-	-	-	1	567	-	2000	-	1.10	100			
26	-	-	-	-	-	-	-	1	481	-	1400	-	1.26	100	1	481	-	1400	-	1.26	100			
27	-	-	-	-	-	-	-	1	772	-	4500	-	0.98	100	1	772	-	4500	-	0.98	100			
28	1	755	-	4500	-	1.05	100	-	-	-	-	-	-	-	1	755	-	4500	-	1.05	100			
38	1	859	-	8350	-	1.32	100	-	-	-	-	-	-	-	1	859	-	8350	-	1.32	100			
TOTAL	56							56							119									
MEAN		411	157	1121	1453	1.10			391	128.5	895	920	1.11			388	147.5	953	1200	1.10				
MEAN AGE	12.2																							

Table 67. Biological data by length interval for lake whitefish caught by tagging nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
150	-	-	-	-	-	-	1	156	50	-	1.32	0	3	157	50	0	1.30	0
160	3	166	50	0	1.09	0	-	-	-	-	-	-	6	165	50	0	1.11	0
170	1	174	50	-	0.95	0	-	-	-	-	-	-	1	174	50	-	0.95	0
180	2	185	100	0	1.58	0	-	-	-	-	-	-	2	185	100	0	1.58	0
190	-	-	-	-	-	-	-	-	-	-	-	-	1	197	50	-	0.65	0
200	-	-	-	-	-	-	1	201	100	-	1.23	0	2	201	75	35	0.93	0
210	1	219	50	-	0.48	0	-	-	-	-	-	-	1	219	50	-	0.48	0
220	1	228	150	-	1.27	0	2	226	150	0	1.30	0	3	227	150	0	1.29	0
230	-	-	-	-	-	-	-	-	-	-	-	-	1	232	100	-	0.80	0
250	1	259	200	-	1.15	0	2	251	175	35	1.11	0	4	253	175	29	1.08	0
260	1	264	200	-	1.09	0	1	260	200	-	1.14	0	2	262	200	0	1.11	0
280	2	283	200	71	0.89	0	-	-	-	-	-	-	2	283	200	71	0.89	0
290	1	296	350	-	1.35	0	-	-	-	-	-	-	1	296	350	-	1.35	0
300	-	-	-	-	-	-	1	300	350	-	1.30	0	1	300	350	-	1.30	0
310	1	312	400	-	1.32	0	1	316	300	-	0.95	0	2	314	350	71	1.13	0
320	1	329	450	-	1.26	0	1	322	400	-	1.20	100	2	326	425	35	1.23	50
330	1	338	500	-	1.29	100	-	-	-	-	-	-	1	338	500	-	1.29	100
340	-	-	-	-	-	-	1	347	500	-	1.20	0	1	347	500	-	1.20	0
350	-	-	-	-	-	-	1	351	500	-	1.16	0	1	351	500	-	1.16	0
360	1	369	700	-	1.39	100	1	363	550	-	1.15	100	2	366	625	106	1.27	100
370	1	371	700	-	1.37	100	1	375	750	-	1.42	0	2	373	725	35	1.40	50
380	1	387	600	-	1.04	100	2	383	775	35	1.38	50	3	384	717	104	1.26	67
390	-	-	-	-	-	-	2	395	725	35	1.18	100	2	395	725	35	1.18	100
400	-	-	-	-	-	-	1	402	1000	-	1.54	100	1	402	1000	-	1.54	100
420	1	427	1050	-	1.35	0	-	-	-	-	-	-	1	427	1050	-	1.35	0
430	2	435	1125	35	1.37	50	1	436	1050	-	1.27	100	3	435	1100	50	1.34	67
440	-	-	-	-	-	-	3	445	1217	257	1.38	100	4	444	1225	210	1.40	100
450	4	453	1425	357	1.52	75	4	453	1213	149	1.30	100	8	453	1319	278	1.41	88
470	4	472	1488	103	1.42	100	1	470	1600	-	1.54	100	5	471	1510	102	1.44	100
480	1	480	1550	-	1.40	100	1	486	1600	-	1.39	100	2	483	1575	35	1.40	100
490	4	495	1838	206	1.52	100	4	495	1450	344	1.20	100	8	495	1644	334	1.36	100
500	1	503	1700	-	1.34	100	4	506	1750	147	1.35	100	5	505	1740	129	1.35	100
510	3	514	1650	229	1.21	100	2	516	1900	71	1.39	100	5	515	1750	215	1.28	100
520	6	524	2017	68	1.40	100	5	528	2240	171	1.52	100	11	526	2118	166	1.46	100
530	9	533	2106	167	1.39	100	11	534	2223	264	1.46	100	20	533	2170	228	1.43	100
540	9	545	2422	224	1.50	100	6	544	2450	265	1.52	100	15	545	2433	232	1.51	100
550	5	555	2400	218	1.41	100	9	555	2306	133	1.35	100	14	555	2339	167	1.37	100
560	2	565	2400	71	1.33	100	1	567	2300	-	1.26	100	3	566	2367	76	1.31	100
570	-	-	-	-	-	-	3	572	2617	161	1.40	100	3	572	2617	161	1.40	100
580	1	584	3050	-	1.53	100	-	-	-	-	-	-	1	584	3050	-	1.53	100
640	1	646	4800	-	1.78	100	-	-	-	-	-	-	1	646	4800	-	1.78	100
TOTAL MEAN	72	451	1571	945	1.36		74	467	1607	823	1.36		156	443	1499	925	1.34	

Table 68. Biological data by age group for lake whitefish caught by tagging nets from Nueltin Lake, 1981.

AGE (YR)	MALES								FEMALES								COMBINED										
	LENGTH(MM)			WEIGHT(G)			% K MAT		LENGTH(MM)			WEIGHT(G)			% K MAT		LENGTH(MM)			WEIGHT(G)			% K MAT				
	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K
2	4	168	4.3	50	0	1.06	0	-	-	-	-	-	-	-	8	164	5.9	50	0	1.14	0						
3	1	182	-	100	-	1.66	0	-	-	-	-	-	-	-	2	174	11.3	75	35	1.38	0						
4	3	212	21.0	100	50	1.08	0	2	227	36.1	125	35	1.08	0	7	212	22.3	93	45	0.96	0						
5	1	259	-	200	-	1.15	0	2	226	1.4	150	0	1.30	0	3	237	19.1	167	29	1.25	0						
6	3	281	16.1	267	76	1.18	0	3	275	35.6	233	58	1.12	0	6	278	24.9	250	63	1.15	0						
7	3	308	23.8	333	161	1.08	0	2	337	20.5	450	71	1.18	50	5	319	25.3	380	135	1.12	20						
8	1	387	-	600	-	1.04	100	2	342	59.4	550	283	1.31	0	3	357	49.4	567	202	1.22	33						
10	3	386	57.6	783	333	1.31	100	3	406	79.2	967	605	1.32	33	6	396	62.8	875	448	1.32	67						
11	6	455	27.2	1375	393	1.43	67	6	428	40.5	1033	357	1.28	100	13	442	34.3	1208	383	1.36	85						
12	1	456	-	1900	-	2.00	0	4	443	45.5	1075	301	1.27	100	5	446	39.8	1240	452	1.41	80						
13	3	519	23.5	2000	400	1.42	100	4	472	82.6	1450	707	1.27	100	7	492	65.0	1686	624	1.33	100						
14	3	499	49.0	1800	650	1.40	100	3	546	13.3	2167	236	1.32	100	6	523	41.3	1983	481	1.36	100						
15	10	534	14.4	2115	256	1.39	100	6	513	31.9	1942	287	1.43	100	16	526	23.8	2050	273	1.40	100						
16	4	528	40.2	2025	312	1.38	100	14	535	19.0	2164	305	1.41	100	18	533	23.9	2133	303	1.40	100						
17	6	539	32.0	2292	448	1.45	100	8	541	40.4	2250	427	1.41	100	14	540	35.7	2268	419	1.43	100						
18	4	525	30.1	2263	545	1.54	100	3	542	7.2	2583	301	1.62	100	7	532	23.6	2400	456	1.57	100						
19	2	561	2.1	2550	141	1.45	100	1	545	-	2550	-	1.58	100	3	555	9.1	2550	100	1.49	100						
20	1	553	-	2550	-	1.51	100	1	531	-	2600	-	1.74	100	2	542	15.6	2575	35	1.62	100						
23	2	579	95.5	3250	2192	1.53	100	-	-	-	-	-	-	-	2	579	95.5	3250	2192	1.53	100						
TOTAL	61							64							133												
MEAN		441	132	1530	1003	1.36			465	103.4	1591	836	1.35			439	131.1	1479	952	1.34							
MEAN AGE	12.3																										

Table 71. Biological data by length interval for lake cisco caught by tagging nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED								
	LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)					
	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT
150	-	-	-	-	-	-	-	2	155	50	0	1.34	100	2	155	50	0	1.34	100		
160	6	167		58	20	1.27	83	15	166	60	21	1.30	87	23	166	59	19	1.28	78		
170	19	175		55	16	1.03	84	20	174	56	13	1.05	80	40	175	55	14	1.04	80		
180	9	185		67	22	1.04	100	14	184	63	21	1.00	93	24	185	64	21	1.01	92		
190	25	194		79	20	1.08	92	22	195	76	21	1.03	77	47	194	78	20	1.05	85		
200	34	205		97	12	1.12	97	32	204	95	12	1.13	94	66	205	96	12	1.12	95		
210	35	214		103	16	1.05	97	30	214	104	13	1.06	100	65	214	103	15	1.05	98		
220	11	223		109	17	0.98	100	11	223	116	23	1.05	100	22	223	113	20	1.02	100		
230	2	238		138	18	1.03	100	-	-	-	-	-	-	2	238	138	18	1.03	100		
240	1	242		175	-	1.23	100	2	243	150	0	1.05	100	3	242	158	14	1.11	100		
250	3	255		200	0	1.21	100	1	254	200	-	1.22	100	4	255	200	0	1.21	100		
260	2	267		225	35	1.19	100	4	265	188	25	1.01	100	6	265	200	32	1.07	100		
270	-	-		-	-	-	-	1	272	200	-	0.99	100	1	272	200	-	0.99	100		
300	-	-		-	-	-	-	1	301	350	-	1.28	100	1	301	350	-	1.28	100		
TOTAL MEAN	147			203	92	34	1.08	155		200	90	40	1.09	306		201	90	37	1.08		

50

Table 72. Biological data by age group for lake cisco caught by tagging nets from Nueltin Lake, 1981.

AGE (YR)	MALES						FEMALES						COMBINED								
	LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)					
	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT
2	-	-	-	-	-	-	-	2	170	0.7	50	0	1.03	0	5	169	3.2	50	0	1.04	0
3	-	-	-	-	-	-	-	1	167	-	50	-	1.07	100	1	167	-	50	-	1.07	100
4	27	189	18.3	72	24	1.04	93	43	183	18.7	69	22	1.12	88	71	185	18.6	70	23	1.08	89
5	103	204	15.4	92	26	1.06	96	92	205	18.5	95	31	1.07	92	195	205	16.9	93	29	1.07	94
6	10	234	26.9	160	52	1.21	100	6	227	31.9	138	49	1.15	100	16	232	28.0	152	50	1.19	100
7	1	200	-	100	-	1.25	0	2	253	68.6	213	194	1.08	100	3	235	57.2	175	152	1.14	67
TOTAL MEAN MEAN AGE	141			203	93	35	1.07	146		199	24.1	89	40	1.09	291		201	22.2	90	37	1.08

Table 73. Biological data by length interval for northern pike caught by tagging nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
600	1	603	1600	-	0.73	100	-	-	-	-	-	-	1	603	1600	-	0.73	100
680	-	-	-	-	-	-	1	695	2000	-	0.60	100	1	695	2000	-	0.60	100
780	-	-	-	-	-	-	2	795	2450	71	0.49	100	2	795	2450	71	0.49	100
840	-	-	-	-	-	-	1	846	4750	-	0.78	100	1	846	4750	-	0.78	100
TOTAL MEAN	1	603	1600	-	0.73		4	783	2913	1244	0.59		5	747	2650	1227	0.62	

Table 74. Biological data by age group for northern pike caught by tagging nets from Nueltin Lake, 1981.

AGE (YR)	MALES						FEMALES						COMBINED								
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT			
	N	MEAN	SD	MEAN			SD	N	MEAN	SD			MEAN	SD	N	MEAN			SD	MEAN	SD
7	1	603	-	1600	-	0.73	100	1	695	-	2000	-	0.60	100	2	649	65.1	1800	283	0.66	100
9	-	-	-	-	-	-	-	2	819	38.9	3625	1591	0.64	100	2	819	38.9	3625	1591	0.64	100
TOTAL MEAN AGE	1	603	-	1600	-	0.73		3	777	76.4	3083	1465	0.63		4	734	107.2	2713	1407	0.65	

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Table 75. Biological data by length interval for burbot caught by tagging nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
220	-	-	-	-	-	-	-	-	-	-	-	-	1	229	75	-	0.62	0
240	-	-	-	-	-	-	-	-	-	-	-	-	1	243	50	-	0.35	0
TOTAL MEAN	0	-	-	-	-	-	0	-	-	-	-	-	2	236	63	18	0.49	

Table 76. Biological data by age group for burbot caught by tagging nets from Nueltin Lake, 1981.

AGE (YR)	MALES						FEMALES						COMBINED						
	LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)			
	N	MEAN	SD	MEAN	SD	% K MAT	N	MEAN	SD	MEAN	SD	% K MAT	N	MEAN	SD	MEAN	SD	% K MAT	
7	-	-	-	-	-	-	-	-	-	-	-	-	2	236	9.9	63	18	0.49	0
TOTAL	0						0						2						
MEAN														236	9.9	63	18	0.49	
MEAN AGE	7.0																		

Table 77. Biological data by length interval for longnose sucker caught by tagging nets from Nueltin Lake, 1981.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G)	
				MEAN	SD
140	1	8	143	50	-
150	2	17	155	75	35
160	5	42	163	90	22
180	1	8	187	100	-
190	1	8	190	100	-
200	1	8	209	150	-
400	1	8	406	950	-
TOTAL	12				
MEAN			188	163	250

Table 78. Summary of information pertaining to lodge operation and creel census survey at Snowbird Lake, 1982.

Location	Period	Lodge Operation				Creel Census					
		Duration (days)	No. of Guests		Angler-days ²	Period	Duration (days)		No. Anglers	Angler-days	Angler-hours
Estimated	License Sale ¹	Total	Censused								
Snowbird Lake	25 July 3 September	40	78	91	511	25 July 3 September	40	40	78	511	2 551.5

¹ Provided by Dept. Renewable Resource, Government of Northwest Territories.

² Estimated from number anglers interviewed during creel census.

Table 79. Observed catch, effort and catch/effort statistics of anglers during the creel census survey at Snowbird Lake, 1982.

Location	Species	Catch		Angler effort		Fish per angler		Fish per angler-day		Fish per angler-hour	
		No.	Wt(Kg)	days	hours	No.	Wt(kg)	No.	Wt(kg)	No.	Wt(Kg)
Snowbird Lake	Lake trout ¹	1 142	2 627)	511	2551.5	14.6	33.7	2.2	5.1	0.5	1.0
	Northern pike ²	628	1 821)			8.1	23.3	1.2	3.6	0.3	0.7
	Arctic grayling ³	388	349)			5.0	4.5	0.8	0.7	0.2	0.1

¹ Mean weight = 2.3 kg.

² Mean weight = 2.9 kg.

³ Mean weight = 0.9 kg.

Table 80. Summary of harvest statistics for Snowbird Lake, 1982.

Location	Species	Census Harvest ¹		Total Harvest ²		Hectare fished		Harvest per Hectare available		Angler	
		No.	Wt(kg)	No.	Wt(kg)	No.	Wt(kg)	No.	Wt(kg)	No.	Wt(kg)
Snowbird Lake	lake trout ³	225	518	289	666	0.07	0.17	0.01	0.01	3.7	8.5
	northern pike ⁴	71	206	110	319	0.03	0.08	<0.01	0.01	1.4	4.9
	Arctic grayling ⁵	60	54	83	75	0.02	0.02	<0.01	<0.01	1.1	1.0

¹ Includes fish retained and shore lunches.

² Includes fish retained, shore lunches and release mortality (7%).

³ Mean weight = 2.3 kg.

⁴ Mean weight = 2.9 kg.

⁵ Mean weight = 0.9 kg.

Table 83. Biological data by length interval for angled Arctic grayling from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED								
	LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)					
	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT
290	1	293	-	300	-	1.19	0	-	-	-	-	-	-	-	1	293	-	300	-	1.19	0
370	1	378	-	575	-	1.06	100	-	-	-	-	-	-	-	1	378	-	575	-	1.06	100
410	3	415	-	858	14	1.20	100	1	413	-	825	-	1.17	100	4	414	20	850	20	1.20	100
420	1	429	-	975	-	1.23	100	2	423	-	850	71	1.13	100	4	424	72	894	72	1.17	100
430	-	-	-	-	-	-	-	2	434	-	963	53	1.18	100	3	435	43	975	43	1.18	100
440	1	440	-	950	-	1.12	100	-	-	-	-	-	-	-	3	444	50	1000	50	1.14	100
450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	450	-	1000	-	1.10	-
TOTAL MEAN	7	398		768	244	1.17		5	425		890	80	1.16		17	418	184	869	184	1.16	

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Table 84. Biological data by age group for angled Arctic grayling from Snowbird Lake, 1982.

AGE (YR)	MALES							FEMALES							COMBINED						
	LENGTH(MM)			WEIGHT(G)			%	LENGTH(MM)			WEIGHT(G)			%	LENGTH(MM)			WEIGHT(G)			%
	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT
4	1	293	-	300	-	1.19	0	-	-	-	-	-	-	-	1	293	-	300	-	1.19	0
5	1	378	-	575	-	1.06	100	-	-	-	-	-	-	-	1	378	-	575	-	1.06	100
8	3	419	8.7	892	72	1.21	100	2	417	4.9	813	18	1.13	100	5	418	6.8	860	68	1.18	100
9	1	440	-	950	-	1.12	100	2	434	0.0	963	53	1.18	100	3	436	3.5	958	38	1.16	100
11	-	-	-	-	-	-	-	1	425	-	900	-	1.17	100	1	425	-	900	-	1.17	100
TOTAL MEAN MEAN AGE	6	395	54	750	262	1.17		5	425	9.1	890	80	1.16		11	409	41.8	814	206	1.16	

Table 85. Biological data by length interval for angled northern pike from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED								
	LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)					
	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT
740	1	750	-	3200	-	0.76	100	-	-	-	-	-	-	-	1	750	-	3200	-	0.76	100
TOTAL MEAN	1	750	-	3200	-	0.76		0	-	-	-	-	-	1	750	-	3200	-	0.76		

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Table 86. Biological data by age group for angled northern pike from Snowbird Lake, 1982.

AGE (YR)	MALES						FEMALES						COMBINED								
	LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)			LENGTH(MM)			WEIGHT(G)					
	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT	N	MEAN	SD	MEAN	SD	K	MAT
8	1	750	-	3200	-	0.76	100	-	-	-	-	-	-	-	1	750	-	3200	-	0.76	100
TOTAL MEAN MEAN AGE	1	750	-	3200	-	0.76		0	-	-	-	-	-	1	750	-	3200	-	0.76		

Table 87. Catch and catch per unit effort (CPE) data for fish caught by experimental gillnets from Snowbird Lake, 1982.

Fish Species		Mesh Size					Total Catch (kg)	CPE ¹
		1.5 38	2.5 64	3.5 89	4.5 114	5.5 (in) 139 (mm)		
Lake trout	No.	49	54	55	56	36	250	8.2
	%	19.6	21.6	22.0	22.4	14.4	39.9	
Lake whitefish	No.	35	63	100	80	56	334	10.9
	%	10.5	18.9	29.9	24.0	16.8	53.3	
Round whitefish	No.	19	8	-	-	-	27	0.9
	%	70.4	29.6	-	-	-	4.3	
Longnose sucker	No.	3	1	-	-	-	4	0.1
	%	75.0	25.0	-	-	-	0.6	
White Sucker	No.	4	2	1	1	-	8	0.3
	%	50.0	25.0	12.5	12.5	-	1.3	
Northern Pike	No.	-	-	3	-	-	3	0.1
	%	-	-	100	-	-	0.5	
Burbot	No.	-	-	-	-	1	1	<0.1
	%	-	-	-	-	100	0.2	
Total	No.	110	128	159	137	93	627	20.5
	%	17.5	20.4	25.4	21.9	14.8		

¹ No. fish per 100 m gillnet per 24 h.

Table 88. Biological data by length interval for lake trout caught by experimental nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED									
	N	LENGTH(MM)		WEIGHT(G)		K	MAT	N	LENGTH(MM)		WEIGHT(G)		K	MAT	N	LENGTH(MM)		WEIGHT(G)		K	MAT	
		MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD				MEAN	SD					
175	-	-	-	-	-	-	-	-	-	-	-	-	-	5	190	70	21	1.01	0	-	-	
200	-	-	-	-	-	-	1	206	100	-	1.14	0	-	3	213	100	0	1.04	0	-	-	
225	1	244	150	-	1.03	0	-	-	-	-	-	-	-	1	244	150	-	1.03	0	-	-	
250	1	261	200	-	1.12	0	-	-	-	-	-	-	-	1	261	200	-	1.12	0	-	-	
275	2	282	225	35	1.00	0	1	288	250	-	1.05	0	3	284	233	29	1.01	0	-	-	-	
300	1	312	300	-	0.99	0	2	308	325	35	1.11	0	3	309	317	29	1.07	0	-	-	-	
325	1	332	400	-	1.09	0	1	331	400	-	1.10	0	2	332	400	0	1.10	0	-	-	-	
350	-	-	-	-	-	-	2	353	475	35	1.08	0	2	353	475	35	1.08	0	-	-	-	
375	2	377	625	35	1.17	0	-	-	-	-	-	-	2	377	625	35	1.17	0	-	-	-	
400	1	416	800	-	1.11	0	4	413	790	45	1.12	0	5	414	792	40	1.12	0	-	-	-	
425	-	-	-	-	-	-	5	436	890	74	1.07	0	5	436	890	74	1.07	0	-	-	-	
450	6	465	1108	128	1.10	33	8	460	1044	68	1.07	0	14	462	1071	99	1.08	14	-	-	-	
475	4	490	1300	41	1.11	0	3	478	1150	150	1.05	0	7	485	1236	121	1.08	0	-	-	-	
500	8	511	1519	100	1.14	50	5	512	1500	137	1.11	20	13	512	1512	110	1.13	38	-	-	-	
525	12	537	1679	212	1.09	42	7	537	1786	157	1.15	71	19	537	1718	196	1.11	53	-	-	-	
550	17	559	1965	261	1.13	76	5	564	1970	164	1.10	80	22	560	1966	239	1.12	77	-	-	-	
575	17	587	2172	224	1.07	88	11	586	2227	192	1.11	91	28	587	2194	210	1.08	89	-	-	-	
600	20	611	2458	232	1.08	100	13	611	2488	212	1.09	92	33	611	2470	221	1.08	97	-	-	-	
625	13	635	2554	261	1.00	100	14	636	2636	340	1.02	100	27	635	2596	302	1.01	100	-	-	-	
650	10	660	2633	323	0.92	100	7	663	2893	241	0.99	100	18	661	2749	305	0.95	100	-	-	-	
675	1	676	3850	-	1.25	100	10	691	3395	493	1.03	100	11	689	3436	487	1.05	100	-	-	-	
700	5	711	3380	629	0.94	100	4	705	3688	440	1.05	100	9	708	3517	545	0.99	100	-	-	-	
725	1	738	3100	-	0.77	100	2	730	3300	566	0.85	100	3	733	3233	416	0.82	100	-	-	-	
750	-	-	-	-	-	-	2	762	4375	389	0.99	100	2	762	4375	389	0.99	100	-	-	-	-
775	2	794	5850	0	1.17	100	-	-	-	-	-	-	2	794	5850	0	1.17	100	-	-	-	
800	1	806	6900	-	1.32	100	2	806	5775	742	1.10	100	3	806	6150	835	1.18	100	-	-	-	
825	1	835	6450	-	1.11	100	-	-	-	-	-	-	1	835	6450	-	1.11	100	-	-	-	
875	1	880	7650	-	1.12	100	2	882	8200	1838	1.19	100	3	881	8017	1338	1.17	100	-	-	-	
900	1	910	11800	-	1.57	100	1	904	6000	-	0.81	100	2	907	8900	4101	1.19	100	-	-	-	
925	1	931	11300	-	1.40	100	-	-	-	-	-	-	1	931	11300	-	1.40	100	-	-	-	
950	1	958	11900	-	1.35	100	-	-	-	-	-	-	1	958	11900	-	1.35	100	-	-	-	
TOTAL MEAN	131	585	2429	1817	1.07		112	582	2354	1410	1.07		251	573	2332	1658	1.07					

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Table 89. Biological data by age group for lake trout caught by experimental nets from Snowbird Lake, 1982.

AGE (YR)	MALES							FEMALES							COMBINED							
	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	
	N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			
5	-	-	-	-	-	-	-	1	206	-	100	-	1.14	0	5	195	15.1	75	25	0.98	0	
6	2	260	22.6	175	35	0.99	0	-	-	-	-	-	-	-	5	226	34.4	125	50	1.05	0	
7	2	275	19.1	225	35	1.09	0	-	-	-	-	-	-	-	2	275	19.1	225	35	1.09	0	
8	1	312	-	300	-	0.99	0	4	319	28.6	363	111	1.09	0	5	317	24.9	350	100	1.07	0	
9	1	332	-	400	-	1.09	0	2	423	154.9	1000	919	1.12	50	3	392	121.3	800	737	1.11	33	
10	3	451	65.0	1083	437	1.13	67	1	420	-	750	-	1.01	0	4	444	55.4	1000	394	1.10	50	
11	1	509	-	1450	-	1.10	100	7	434	40.8	900	257	1.07	0	8	444	46.1	969	307	1.07	13	
12	8	474	57.2	1256	468	1.13	25	8	455	40.8	1045	242	1.10	0	16	465	49.1	1151	376	1.11	13	
13	12	517	42.0	1529	376	1.09	33	10	497	52.6	1405	475	1.11	40	22	508	47.0	1473	418	1.10	36	
14	7	542	32.0	1693	380	1.06	57	7	539	53.1	1729	520	1.08	29	14	540	42.1	1711	438	1.07	43	
15	14	553	28.7	1918	331	1.13	64	2	570	30.4	2025	672	1.08	50	16	555	28.4	1931	355	1.12	63	
16	7	557	42.3	1979	478	1.13	86	6	575	38.4	2142	267	1.13	100	13	565	39.8	2054	389	1.13	92	
17	5	591	37.2	2250	262	1.09	80	4	576	21.5	2150	216	1.13	50	9	584	30.6	2206	234	1.11	67	
18	5	642	88.6	2940	1635	1.04	100	6	605	33.1	2358	383	1.06	100	11	622	63.6	2623	1111	1.05	100	
19	6	645	65.0	2817	783	1.04	83	2	636	77.1	2850	707	1.11	100	8	643	62.3	2825	714	1.06	88	
20	7	658	79.0	3161	1690	1.05	100	2	624	89.1	2375	530	0.99	100	9	650	76.7	2987	1516	1.04	100	
21	9	619	34.7	2547	380	1.07	89	7	702	83.6	3957	1435	1.11	100	16	655	72.5	3164	1193	1.09	94	
22	6	618	16.3	2342	325	0.99	83	8	662	95.8	3594	2462	1.12	100	14	643	74.5	3057	1928	1.07	93	
23	8	671	135.0	3994	3298	1.13	100	4	636	33.9	3138	554	1.21	100	12	659	110.5	3708	2680	1.16	100	
24	3	646	27.9	2633	407	0.98	100	3	678	21.2	3367	675	1.07	100	7	661	26.1	2986	586	1.03	100	
25	2	599	3.5	2400	354	1.12	100	5	664	37.5	2880	615	0.97	100	7	645	44.1	2743	573	1.02	100	
26	3	607	11.8	2433	375	1.09	100	2	624	19.8	2625	247	1.08	100	5	614	16.1	2510	311	1.08	100	
27	1	598	-	2050	-	0.96	100	1	636	-	2850	-	1.11	100	2	617	26.9	2450	566	1.03	100	
28	4	642	15.0	2550	265	0.96	100	3	728	39.6	3650	427	0.95	100	7	679	52.3	3021	664	0.96	100	
29	3	646	24.4	2500	361	0.93	100	5	694	109.1	3440	2028	0.95	100	8	676	87.2	3088	1620	0.94	100	
30	2	850	84.9	8825	4207	1.38	100	3	671	50.5	2950	650	0.97	100	5	743	112.5	5300	3872	1.13	100	
31	4	717	164.0	5175	4530	1.18	100	2	654	25.5	3000	283	1.07	100	6	696	131.6	4450	3686	1.15	100	
32	-	-	-	-	-	-	-	1	635	-	2400	-	0.94	100	1	635	-	2400	-	0.94	100	
33	1	702	-	3800	-	1.10	100	1	640	-	2450	-	0.93	100	2	671	43.8	3125	955	1.02	100	
34	-	-	-	-	-	-	-	1	676	-	3050	-	0.99	100	1	676	-	3050	-	0.99	100	
38	1	659	-	2200	-	0.77	100	-	-	-	-	-	-	-	1	659	-	2200	-	0.77	100	
40	1	700	-	2350	-	0.69	100	1	731	-	2900	-	0.74	100	2	716	21.9	2625	389	0.71	100	
41	-	-	-	-	-	-	-	1	707	-	4300	-	1.22	100	1	707	-	4300	-	1.22	100	
42	-	-	-	-	-	-	-	1	699	-	2700	-	0.79	100	1	699	-	2700	-	0.79	100	
43	1	738	-	3100	-	0.77	100	-	-	-	-	-	-	-	1	738	-	3100	-	0.77	100	
50	1	880	-	7650	-	1.12	100	1	904	-	6000	-	0.81	100	2	892	17.0	6825	1167	0.97	100	
TOTAL	131							112							251							
MEAN		585	115	2429	1817	1.07			582	124.9	2354	1410	1.07			573	134.0	2332	1658	1.07		
MEAN AGE	18.9																					

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Table 90. Biological data by length interval for lake whitefish caught by experimental nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
160	-	-	-	-	-	-	-	-	-	-	-	-	2	165	50	0	1.11	0
190	-	-	-	-	-	-	-	-	-	-	-	-	2	198	50	0	0.64	0
200	1	207	150	-	1.69	0	-	-	-	-	-	-	1	207	150	-	1.69	0
310	1	315	400	-	1.28	0	-	-	-	-	-	-	1	315	400	-	1.28	0
330	1	331	450	-	1.24	0	-	-	-	-	-	-	1	331	450	-	1.24	0
350	3	357	583	58	1.29	0	-	-	-	-	-	-	3	357	583	58	1.29	0
360	1	360	700	-	1.50	0	1	365	600	-	1.23	0	2	363	650	71	1.37	0
370	1	377	750	-	1.40	0	-	-	-	-	-	-	1	377	750	-	1.40	0
380	-	-	-	-	-	-	2	387	725	106	1.25	0	2	387	725	106	1.25	0
390	2	395	875	35	1.42	0	-	-	-	-	-	-	2	395	875	35	1.42	0
400	1	400	900	-	1.41	0	4	406	925	50	1.38	0	5	405	920	45	1.39	0
410	2	414	1150	354	1.62	50	1	416	1100	-	1.53	0	3	414	1133	252	1.59	33
420	5	425	1020	157	1.33	20	-	-	-	-	-	-	6	426	1050	158	1.36	33
430	6	436	1150	45	1.39	17	2	438	1150	0	1.37	0	8	436	1150	38	1.39	13
440	7	445	1193	35	1.36	29	7	444	1314	107	1.50	71	14	444	1254	99	1.43	50
450	11	454	1345	85	1.44	91	11	455	1382	106	1.46	91	22	455	1364	95	1.45	91
460	11	465	1427	47	1.42	91	8	465	1406	94	1.40	88	20	465	1418	67	1.41	90
470	10	475	1565	88	1.46	90	15	474	1533	88	1.44	93	25	474	1546	88	1.45	92
480	23	484	1635	97	1.44	91	19	485	1747	125	1.54	100	42	484	1686	123	1.48	95
490	24	494	1692	124	1.40	100	15	494	1753	179	1.45	93	39	494	1715	148	1.42	97
500	13	504	1869	169	1.46	100	16	504	1894	159	1.48	100	29	504	1883	161	1.47	100
510	19	514	1958	187	1.44	100	11	514	1973	135	1.45	100	30	514	1963	167	1.45	100
520	13	524	2069	183	1.43	100	8	525	2069	107	1.43	100	21	525	2069	155	1.43	100
530	9	534	2161	114	1.42	100	5	534	2190	96	1.43	100	14	534	2171	105	1.43	100
540	16	543	2275	170	1.42	100	5	545	2370	104	1.46	100	21	544	2298	160	1.43	100
550	5	556	2390	188	1.39	100	3	556	2300	132	1.34	100	8	556	2356	166	1.37	100
560	2	563	2400	283	1.34	100	3	561	2633	275	1.49	100	5	562	2540	272	1.43	100
570	1	570	2650	-	1.43	100	3	575	2850	87	1.50	100	4	574	2800	122	1.48	100
580	1	583	3000	-	1.51	100	-	-	-	-	-	-	1	583	3000	-	1.51	100
TOTAL	189						139						334					
MEAN		487	1696	473	1.42			489	1741	428	1.46			484	1693	486	1.43	

Table 91. Biological data by age group for lake whitefish caught by experimental nets from Snowbird Lake, 1982.

AGE (YR)	MALES							FEMALES							COMBINED							
	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	
	N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	198	-	50	-	0.64	0
4	1	207	-	150	-	1.69	0	-	-	-	-	-	-	-	-	2	203	6.4	100	71	1.17	0
6	9	404	42.1	967	335	1.41	22	3	406	3.8	917	58	1.37	0	12	405	35.9	954	288	1.40	17	
7	14	416	38.6	1021	285	1.38	21	4	421	53.0	1013	384	1.31	50	18	417	40.5	1019	297	1.36	28	
8	14	462	51.3	1421	445	1.38	64	9	444	37.9	1294	380	1.44	56	24	454	45.8	1365	409	1.41	63	
9	17	472	20.4	1506	221	1.42	82	18	472	27.6	1536	275	1.45	83	35	472	24.0	1521	247	1.44	83	
10	31	488	24.9	1660	279	1.42	90	28	490	23.7	1748	257	1.48	96	59	489	24.1	1702	271	1.45	93	
11	33	503	31.6	1868	344	1.45	100	30	496	28.3	1778	341	1.45	93	63	500	30.1	1825	343	1.45	97	
12	34	514	24.2	1965	262	1.44	100	23	512	33.2	2026	462	1.49	100	57	513	27.9	1989	354	1.46	100	
13	17	516	27.4	1944	313	1.40	100	12	510	25.5	1958	245	1.48	100	29	514	26.4	1950	282	1.43	100	
14	9	525	25.2	2011	391	1.37	100	4	518	26.5	2013	189	1.45	100	13	523	24.7	2012	333	1.40	100	
15	1	558	-	2700	-	1.55	100	2	560	0.0	2475	35	1.41	100	3	559	1.2	2550	132	1.46	100	
TOTAL	180							133							316							
MEAN		486	50	1680	461	1.42			489	38.9	1741	427	1.46			485	51.0	1694	465	1.43		
MEAN AGE	10.4																					

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Table 92. Biological data by length interval for round whitefish caught by experimental nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED						
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			
190	1	195	75	-	1.01	0	2	199	75	0	0.96	0	3	197	75	0	0.98	0	
200	2	204	75	0	0.88	0	3	204	75	0	0.88	0	5	204	75	0	0.88	0	
210	-	-	-	-	-	-	1	219	100	-	0.95	0	2	217	100	0	0.99	0	
220	4	224	100	0	0.89	0	-	-	-	-	-	-	5	223	100	0	0.90	0	
230	-	-	-	-	-	-	1	234	150	-	1.17	0	1	234	150	-	1.17	0	
240	-	-	-	-	-	-	1	240	150	-	1.09	0	1	240	150	-	1.09	0	
260	-	-	-	-	-	-	1	268	200	-	1.04	100	1	268	200	-	1.04	100	
300	2	301	300	71	1.11	0	-	-	-	-	-	-	2	301	300	71	1.11	0	
310	-	-	-	-	-	-	1	315	350	-	1.12	100	1	315	350	-	1.12	100	
320	2	326	350	0	1.01	50	1	326	300	-	0.87	100	3	326	333	29	0.97	67	
330	1	336	350	-	0.92	100	1	339	400	-	1.03	100	2	338	375	35	0.97	100	
340	-	-	-	-	-	-	1	345	400	-	0.97	100	1	345	400	-	0.97	100	
TOTAL	12						13						27						
MEAN		257	190	127	0.96			254	187	130	0.98			252	181	123	0.97		

Table 93. Biological data by age group for round whitefish caught by experimental nets from Snowbird Lake, 1982.

AGE (YR)	MALES							FEMALES							COMBINED						
	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT
	N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD		
3	4	207	12.4	81	13	0.92	0	5	206	8.4	80	11	0.91	0	11	208	9.9	84	13	0.93	0
4	3	224	3.1	100	0	0.89	0	1	234	-	150	-	1.17	0	4	226	5.7	113	25	0.96	0
5	1	300	-	350	-	1.30	0	1	268	-	200	-	1.04	100	2	284	22.6	275	106	1.17	50
6	2	313	17.0	300	71	0.97	0	-	-	-	-	-	-	-	2	313	17.0	300	71	0.97	0
7	1	326	-	350	-	1.01	100	-	-	-	-	-	-	-	1	326	-	350	-	1.01	100
8	1	336	-	350	-	0.92	100	2	342	4.2	400	0	1.00	100	3	340	4.6	383	29	0.97	100
9	-	-	-	-	-	-	-	1	315	-	350	-	1.12	100	1	315	-	350	-	1.12	100
TOTAL	12							10							24						
MEAN		257	55	190	127	0.96			253	59.3	190	140	0.99			252	54.2	182	127	0.97	
MEAN AGE	4.6																				

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Table 94. Biological data by length interval for northern pike caught by experimental nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT	LENGTH(MM)		WEIGHT(G)		K	MAT
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
640	1	658	1950	-	0.68	100	-	-	-	-	-	-	1	658	1950	-	0.68	100
780	1	783	2200	-	0.46	100	-	-	-	-	-	-	1	783	2200	-	0.46	100
860	1	864	4800	-	0.74	100	-	-	-	-	-	-	1	864	4800	-	0.74	100
TOTAL	3						0						3					
MEAN		768	2983	1578	0.63			-	-	-	-			768	2983	1578	0.63	

Table 98. Biological data by length interval for longnose sucker caught by experimental nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES									FEMALES					COMBINED				
	N	%	LENGTH(MM)			K	N	%	LENGTH(MM)			K	N	%	LENGTH(MM)			K	% FEMALE
			MEAN	MEAN	SD				MEAN	MEAN	SD				MEAN	MEAN	SD		
160	-	-	-	-	-	-	-	-	-	-	-	2	50	165	50	0	1.11	-	
170	-	-	-	-	-	-	-	-	-	-	-	1	25	176	50	-	0.92	-	
290	1	100	296	350	-	1.35	-	-	-	-	-	1	25	296	350	-	1.35	-	
TOTAL MEAN	1		296	350	-	1.35	0					4		201	125	150	1.12	0	

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Table 99. Biological data by length interval for white sucker caught by experimental nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES									FEMALES					COMBINED				
	N	%	LENGTH(MM)			K	N	%	LENGTH(MM)			K	N	%	LENGTH(MM)			K	% FEMALE
			MEAN	MEAN	SD				MEAN	MEAN	SD				MEAN	MEAN	SD		
150	-	-	-	-	-	-	-	-	-	-	-	1	13	150	25	-	0.74	-	
180	-	-	-	-	-	-	-	-	-	-	-	1	13	180	50	-	0.86	-	
280	1	25	281	300	-	1.35	-	-	-	-	-	1	13	281	300	-	1.35	-	
300	-	-	-	-	-	-	1	50	304	400	-	1	13	304	400	-	1.42	-	
330	1	25	334	550	-	1.48	-	-	-	-	-	1	13	334	550	-	1.48	-	
340	1	25	341	600	-	1.51	-	-	-	-	-	1	13	341	600	-	1.51	-	
380	1	25	383	350	-	0.62	-	-	-	-	-	1	13	383	350	-	0.62	-	
440	-	-	-	-	-	-	1	50	443	1150	-	1	13	443	1150	-	1.32	-	
TOTAL MEAN	4		335	450	147	1.24	2		374	775	530	1.37	8	302	428	357	1.16	33	

Table 100. Biological data by length interval for lake trout caught by tagging nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
150	-	-	-	-	-	-	-	-	-	-	-	-	2	165	50	0	1.12	0
175	1	192	100	-	1.41	0	5	192	65	14	0.92	0	27	190	71	19	1.04	0
200	5	202	75	18	0.91	0	3	201	83	14	1.03	0	20	206	89	17	1.02	0
225	1	236	125	-	0.95	0	-	-	-	-	-	-	1	236	125	-	0.95	0
250	1	254	150	-	0.92	0	-	-	-	-	-	-	1	254	150	-	0.92	0
275	1	289	250	-	1.04	0	-	-	-	-	-	-	2	290	250	0	1.03	0
300	1	319	550	-	1.69	0	-	-	-	-	-	-	1	319	550	-	1.69	0
325	3	333	383	58	1.03	0	3	335	350	0	0.93	0	6	334	367	41	0.98	0
375	1	398	650	-	1.03	0	2	382	600	71	1.08	0	3	387	617	58	1.06	0
400	1	420	900	-	1.21	0	1	411	750	-	1.08	0	2	416	825	106	1.15	0
425	2	441	975	35	1.14	0	5	439	940	108	1.11	0	7	440	950	91	1.11	0
450	1	459	1100	-	1.14	0	2	464	1000	71	1.00	0	3	462	1033	76	1.05	0
475	2	490	1400	0	1.19	0	1	480	1100	-	0.99	0	3	486	1300	173	1.13	0
500	4	513	1588	85	1.18	25	2	514	1500	212	1.10	0	10	513	1558	124	1.15	17
525	2	535	1900	283	1.24	100	3	546	1883	76	1.16	33	15	540	1890	152	1.19	60
550	6	557	1883	186	1.09	50	2	552	1900	71	1.13	50	28	560	1888	160	1.10	50
575	4	583	2288	144	1.15	75	1	595	2250	-	1.07	100	31	588	2280	125	1.14	80
600	5	616	2530	196	1.08	100	2	606	2625	177	1.18	50	35	611	2557	181	1.11	86
625	-	-	-	-	-	-	1	641	2500	-	0.95	100	21	638	2500	-	0.95	100
650	-	-	-	-	-	-	3	652	3100	87	1.12	100	23	659	3100	87	1.12	100
675	1	689	2500	-	0.76	100	-	-	-	-	-	-	14	681	2500	-	0.76	100
700	1	718	4400	-	1.19	100	-	-	-	-	-	-	5	711	4400	-	1.19	100
725	-	-	-	-	-	-	-	-	-	-	-	-	7	737	-	-	-	-
750	-	-	-	-	-	-	-	-	-	-	-	-	3	759	-	-	-	-
775	-	-	-	-	-	-	-	-	-	-	-	-	2	779	-	-	-	-
800	-	-	-	-	-	-	-	-	-	-	-	-	4	813	-	-	-	-
825	-	-	-	-	-	-	-	-	-	-	-	-	2	843	-	-	-	-
850	1	867	9450	-	1.45	100	-	-	-	-	-	-	2	870	9450	-	1.45	100
875	-	-	-	-	-	-	-	-	-	-	-	-	1	875	-	-	-	-
900	-	-	-	-	-	-	-	-	-	-	-	-	2	917	-	-	-	-
925	-	-	-	-	-	-	-	-	-	-	-	-	2	933	-	-	-	-
950	-	-	-	-	-	-	-	-	-	-	-	-	3	953	-	-	-	-
975	-	-	-	-	-	-	-	-	-	-	-	-	1	994	-	-	-	-
1000	-	-	-	-	-	-	-	-	-	-	-	-	4	1007	-	-	-	-
1075	-	-	-	-	-	-	-	-	-	-	-	-	1	1090	-	-	-	-
TOTAL	44						36						294					
MEAN		468	1584	1568	1.11			431	1198	987	1.05			545	998	1273	1.08	

Table 101. Biological data by age group for lake trout caught by tagging nets from Snowbird Lake, 1982.

AGE (YR)	MALES							FEMALES							COMBINED						
	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT
	N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD		
4	1	201	-	100	-	1.23	0	-	-	-	-	-	-	-	2	180	29.7	75	35	1.24	0
5	4	231	58.5	188	242	1.03	0	8	196	5.8	72	16	0.96	0	38	197	22.6	87	80	1.04	0
6	3	227	53.6	142	95	1.12	0	-	-	-	-	-	-	-	11	213	26.5	105	50	1.05	0
7	2	245	12.7	138	18	0.93	0	-	-	-	-	-	-	-	3	260	27.5	175	66	0.96	0
8	1	330	-	350	-	0.97	0	-	-	-	-	-	-	-	1	330	-	350	-	0.97	0
9	1	325	-	350	-	1.02	0	3	335	5.0	350	0	0.93	0	4	333	6.5	350	0	0.95	0
10	1	345	-	450	-	1.10	0	3	450	88.2	1117	723	1.12	33	4	424	89.1	950	678	1.11	25
11	2	446	67.2	1025	530	1.10	0	-	-	-	-	-	-	-	2	446	67.2	1025	530	1.10	0
12	4	486	66.7	1388	588	1.16	50	8	442	32.6	919	181	1.05	0	12	456	48.6	1075	410	1.09	17
13	5	508	47.2	1590	413	1.19	20	3	506	55.9	1500	444	1.13	0	8	508	46.5	1556	395	1.17	13
14	4	511	41.0	1563	325	1.16	50	2	578	40.3	2225	389	1.15	50	6	533	50.2	1783	459	1.16	50
15	6	569	34.0	2125	482	1.14	67	2	526	29.0	1575	318	1.08	0	8	558	36.7	1988	496	1.12	50
16	-	-	-	-	-	-	-	1	543	-	1900	-	1.19	0	1	543	-	1900	-	1.19	0
18	2	572	31.1	2050	283	1.09	50	1	595	-	2250	-	1.07	100	3	580	25.7	2117	231	1.08	67
19	1	623	-	2650	-	1.10	100	-	-	-	-	-	-	-	1	623	-	2650	-	1.10	100
20	2	662	79.9	3500	1273	1.18	100	-	-	-	-	-	-	-	2	662	79.9	3500	1273	1.18	100
23	-	-	-	-	-	-	-	1	606	-	2750	-	1.24	100	1	606	-	2750	-	1.24	100
24	1	867	-	9450	-	1.45	100	1	655	-	3150	-	1.12	100	2	761	149.9	6300	4455	1.29	100
25	1	615	-	2300	-	0.99	100	-	-	-	-	-	-	-	1	615	-	2300	-	0.99	100
26	-	-	-	-	-	-	-	2	646	6.4	2750	354	1.02	100	2	646	6.4	2750	354	1.02	100
30	1	689	-	2500	-	0.76	100	-	-	-	-	-	-	-	1	689	-	2500	-	0.76	100
31	1	615	-	2350	-	1.01	100	-	-	-	-	-	-	-	1	615	-	2350	-	1.01	100
34	-	-	-	-	-	-	-	1	651	-	3150	-	1.14	100	1	651	-	3150	-	1.14	100
TOTAL	43							36							115						
MEAN		465	164	1572	1584	1.11			431	155.3	1198	987	1.05			371	177.6	989	1275	1.08	
MEAN AGE	10.6																				

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Table 102. Biological data by length interval for lake whitefish caught by tagging nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED								
	N	LENGTH(MM)		WEIGHT(G)		K	%	N	LENGTH(MM)		WEIGHT(G)		K	%	N	LENGTH(MM)		WEIGHT(G)		K	%
		MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD				MEAN	SD	MEAN	SD		
200	1	207		100	-	1.13	0	-	-	-	-	-	-	1	207		100	-	1.13	0	
220	-	-	-	-	-	-	-	1	220		50	-	0.47	0	2	224		75	35	0.66	0
240	1	241		150	-	1.07	0	-	-	-	-	-	-	1	241		150	-	1.07	0	
260	1	267		150	-	0.79	0	-	-	-	-	-	-	1	267		150	-	0.79	0	
320	2	326		350	71	1.01	0	-	-	-	-	-	-	2	326		350	71	1.01	0	
330	1	338		350	-	0.91	0	-	-	-	-	-	-	1	338		350	-	0.91	0	
340	-	-	-	-	-	-	-	1	346		450	-	1.09	0	1	346		450	-	1.09	0
360	1	365		650	-	1.34	0	1	361		700	-	1.49	0	2	363		675	35	1.41	0
370	2	373		700	71	1.35	0	-	-	-	-	-	-	2	373		700	71	1.35	0	
380	1	381		750	-	1.36	0	-	-	-	-	-	-	1	381		750	-	1.36	0	
390	2	395		850	71	1.39	0	5	393		810	55	1.33	0	7	393		821	57	1.35	0
400	3	406		1250	433	1.87	33	1	409		950	-	1.39	0	4	407		1175	384	1.75	25
410	4	414		925	29	1.30	0	9	413		989	65	1.40	22	13	414		969	63	1.37	15
420	4	423		1075	65	1.42	25	7	423		1050	58	1.39	29	11	423		1059	58	1.40	27
430	7	433		1157	45	1.43	14	8	436		1119	53	1.35	25	15	434		1137	52	1.39	20
440	12	445		1342	198	1.52	50	12	445		1271	81	1.44	83	24	445		1306	152	1.48	67
450	15	454		1330	100	1.42	53	9	453		1350	71	1.45	89	24	454		1338	89	1.43	67
460	14	465		1407	90	1.40	43	13	466		1450	84	1.44	85	27	465		1428	88	1.42	63
470	20	474		1503	115	1.41	95	11	475		1495	165	1.39	82	31	475		1500	132	1.40	90
480	18	485		1597	96	1.40	89	16	485		1656	150	1.45	100	34	485		1625	126	1.42	94
490	13	493		1708	104	1.42	85	12	494		1742	133	1.45	100	25	493		1724	117	1.44	92
500	8	505		1844	105	1.43	100	22	504		1820	227	1.42	100	31	504		1829	197	1.43	100
510	15	515		1913	130	1.40	93	9	515		1950	150	1.43	89	24	515		1927	136	1.41	92
520	7	522		2036	56	1.43	100	3	525		1983	76	1.37	100	10	523		2020	63	1.42	100
530	-	-	-	-	-	-	-	9	534		2072	195	1.36	100	9	534		2072	195	1.36	100
540	8	545		2156	150	1.34	100	6	545		2333	175	1.45	100	14	545		2232	179	1.38	100
550	4	554		2425	194	1.43	100	-	-		-	-	-	4	554		2425	194	1.43	100	
560	-	-	-	-	-	-	-	3	566		2550	100	1.41	100	3	566		2550	100	1.41	100
570	1	576		2550	-	1.33	100	-	-		-	-	-	1	576		2550	-	1.33	100	
580	2	583		2375	35	1.20	100	2	584		2875	177	1.45	100	4	583		2625	307	1.32	100
590	-	-	-	-	-	-	-	2	595		2975	318	1.41	100	2	595		2975	318	1.41	100
TOTAL MEAN	167	471	1524	458	1.40			162	477	1587	489	1.41		331	473	1552	479	1.40			

Table 103. Biological data by age group for lake whitefish caught by tagging nets from Snowbird Lake, 1982.

AGE (YR)	MALES								FEMALES								COMBINED								
	LENGTH(MM)			WEIGHT(G)			K	MAT	LENGTH(MM)			WEIGHT(G)			K	MAT	LENGTH(MM)			WEIGHT(G)			K	MAT	
	N	MEAN	SD	MEAN	SD	N			MEAN	SD	MEAN	SD	N	MEAN			SD	MEAN	SD	N	MEAN	SD			MEAN
3	1	207	-	100	-	1.13	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	1	241	-	150	-	1.07	0	1	220	-	50	-	0.47	0	3	229	10.7	100	50	0.80	0				
5	2	316	69.3	400	354	1.06	0	-	-	-	-	-	-	-	2	316	69.3	400	354	1.06	0				
6	5	398	21.7	890	178	1.40	0	10	418	34.2	1020	263	1.37	30	15	411	31.4	977	240	1.38	20				
7	8	407	48.2	963	411	1.33	0	6	427	13.0	1083	137	1.39	0	14	416	37.7	1014	320	1.35	0				
8	14	453	23.4	1257	192	1.34	29	25	442	36.9	1220	317	1.38	56	39	446	32.9	1233	277	1.37	46				
9	30	450	40.0	1317	356	1.40	60	24	458	22.8	1394	242	1.44	83	54	453	33.5	1351	310	1.42	70				
10	27	479	30.4	1626	282	1.49	70	24	482	33.1	1577	343	1.40	88	51	480	31.4	1603	310	1.45	78				
11	34	488	28.1	1656	272	1.42	88	22	499	23.6	1770	268	1.42	95	56	492	26.8	1701	274	1.42	91				
12	19	498	27.1	1761	265	1.42	89	20	506	22.0	1865	282	1.43	100	40	502	24.3	1816	272	1.43	95				
13	7	511	32.7	1950	426	1.45	100	10	513	34.8	2035	416	1.49	90	17	512	32.9	2000	409	1.47	94				
14	5	542	24.9	2180	228	1.37	100	3	552	26.2	2200	527	1.29	100	8	546	24.0	2188	330	1.34	100				
15	2	583	4.2	2375	35	1.20	100	4	559	22.3	2563	347	1.46	100	6	567	21.3	2500	286	1.37	100				
16	1	546	-	1950	-	1.20	100	1	514	-	1700	-	1.25	100	2	530	22.6	1825	177	1.22	100				
TOTAL	156							150							308										
MEAN		469	56	1508	460	1.40			475	48.9	1558	472	1.41			471	54.4	1529	472	1.40					
MEAN AGE	10.0																								

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Table 104. Biological data by length interval for round whitefish caught by tagging nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
180	-	-	-	-	-	-	-	-	-	-	-	-	1	182	50	-	0.83	0
190	-	-	-	-	-	-	9	196	81	24	1.06	0	24	196	76	21	1.01	0
200	5	204	85	22	1.00	0	9	204	89	22	1.05	0	28	204	93	21	1.10	0
210	7	212	107	12	1.12	0	12	214	98	17	1.01	0	29	213	100	19	1.03	0
220	7	223	111	32	0.99	0	8	224	122	36	1.08	0	21	223	118	33	1.05	0
230	4	234	125	29	0.97	0	9	233	125	22	0.98	0	16	233	125	22	0.98	0
240	7	243	146	17	1.02	0	4	244	144	13	0.99	50	12	244	146	14	1.01	17
250	2	257	175	35	1.03	50	2	253	175	35	1.08	50	4	255	175	29	1.06	50
260	-	-	-	-	-	-	2	266	213	53	1.14	100	2	266	213	53	1.14	100
270	4	275	200	0	0.96	25	1	276	200	-	0.95	100	5	275	200	0	0.96	40
280	2	282	225	35	1.00	0	2	284	263	53	1.14	100	4	283	244	43	1.07	50
290	2	294	225	35	0.89	50	-	-	-	-	-	-	2	294	225	35	0.89	50
300	3	303	300	50	1.08	100	4	305	288	25	1.01	75	7	304	293	35	1.04	86
310	2	314	325	35	1.05	100	1	312	300	-	0.99	100	3	313	317	29	1.03	100
320	1	321	450	-	1.36	100	4	324	363	63	1.07	75	5	323	380	67	1.12	80
330	-	-	-	-	-	-	2	336	425	35	1.12	100	2	336	425	35	1.12	100
340	3	345	436	31	1.06	67	1	348	350	-	0.83	100	4	346	415	50	1.00	75
350	1	355	500	-	1.12	100	-	-	-	-	-	-	1	355	500	-	1.12	100
360	1	366	500	-	1.02	100	-	-	-	-	-	-	1	366	500	-	1.02	100
TOTAL MEAN	51	257	193	120	1.03		70	239	157	99	1.04		171	235	149	100	1.04	

Table 105. Biological data by age group for round whitefish caught by tagging nets from Snowbird Lake, 1982.

AGE (YR)	MALES							FEMALES							COMBINED						
	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT
	N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD		
3	14	213	6.9	98	25	1.02	0	30	209	10.4	99	30	1.07	0	81	207	10.1	95	27	1.06	0
4	14	233	12.9	129	26	1.02	0	18	234	14.3	131	30	1.00	17	43	231	14.5	125	31	1.00	7
5	9	264	17.3	189	33	1.03	11	6	267	17.0	208	65	1.07	83	15	265	16.6	197	47	1.04	40
6	5	296	13.0	250	61	0.95	80	4	305	2.6	288	25	1.01	75	9	300	10.5	267	50	0.98	78
7	3	307	5.6	317	29	1.10	100	5	326	4.6	380	67	1.10	80	8	319	10.8	356	62	1.10	88
8	2	334	17.7	454	6	1.23	100	2	326	19.1	350	71	1.01	100	4	330	15.7	402	73	1.12	100
9	2	350	7.8	475	35	1.11	50	1	348	-	350	-	0.83	100	3	349	5.6	433	76	1.02	67
10	1	346	-	400	-	0.97	100	-	-	-	-	-	-	-	1	346	-	400	-	0.97	100
12	1	366	-	500	-	1.02	100	-	-	-	-	-	-	-	1	366	-	500	-	1.02	100
TOTAL	51							66							165						
MEAN		257	46	193	120	1.03			242	43.3	162	99	1.05			236	42.7	152	100	1.04	
MEAN AGE	4.1																				

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Table 106. Biological data by length interval for cisco (spp) caught by tagging nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES							FEMALES							COMBINED						
	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT	LENGTH(MM)			WEIGHT(G)		K	MAT
	N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD			N	MEAN	SD	MEAN	SD		
130	-	-	-	-	-	-	-	1	138		25	-	0.95	100	1	138		25	-	0.95	100
140	-	-	-	-	-	-	-	1	141		25	-	0.89	100	1	141		25	-	0.89	100
160	-	-	-	-	-	-	-	2	164		50	0	1.14	100	2	164		50	0	1.14	100
TOTAL	0							4							4						
MEAN		-	-	-	-	-	-		152		38	14	1.03			152		38	14	1.03	

Table 107. Biological data by age group for cisco (spp) caught by tagging nets from Snowbird Lake, 1982.

AGE (YR)	MALES								FEMALES								COMBINED							
	LENGTH(MM)			WEIGHT(G)			K	%	LENGTH(MM)			WEIGHT(G)			K	%	LENGTH(MM)			WEIGHT(G)			K	%
	N	MEAN	SD	MEAN	SD	N			MEAN	SD	MEAN	SD	N	MEAN			SD	MEAN	SD					
2	-	-	-	-	-	-	-	1	141	-	25	-	0.89	100	1	141	-	25	-	0.89	100			
3	-	-	-	-	-	-	-	1	168	-	50	-	1.05	100	1	168	-	50	-	1.05	100			
TOTAL	0							2							2									
MEAN									155	19.1	38	18	0.97			155	19.1	38	18	0.97				
MEAN AGE	2.5																							

Table 108. Biological data by length interval for Arctic grayling caught by tagging nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
390	-	-	-	-	-	-	1	397	750	-	1.20	100	1	397	750	-	1.20	100
TOTAL	0						1						1					
MEAN								397	750	-	1.20			397	750	-	1.20	

Table 109. Biological data by age group for Arctic grayling caught by tagging nets from Snowbird Lake, 1982.

AGE (YR)	MALES								FEMALES								COMBINED							
	LENGTH(MM)			WEIGHT(G)			K	%	LENGTH(MM)			WEIGHT(G)			K	%	LENGTH(MM)			WEIGHT(G)			K	%
	N	MEAN	SD	MEAN	SD	N			MEAN	SD	MEAN	SD	N	MEAN			SD	MEAN	SD					
8	-	-	-	-	-	-	-	1	397	-	750	-	1.20	100	1	397	-	750	-	1.20	100			
TOTAL	0							1							1									
MEAN									397	-	750	-	1.20			397	-	750	-	1.20				
MEAN AGE	8.0																							

Table 110. Biological data by length interval for northern pike caught by tagging nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
880	-	-	-	-	-	-	1	881	4500	-	0.66	100	1	881	4500	-	0.66	100
980	-	-	-	-	-	-	1	998	6950	-	0.70	100	1	998	6950	-	0.70	100
TOTAL MEAN	0	-	-	-	-	-	2	940	5725	1732	0.68		2	940	5725	1732	0.68	

Table 111. Biological data by age group for northern pike caught by tagging nets from Snowbird Lake, 1982.

AGE (YR)	MALES						FEMALES						COMBINED							
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%		
	N	MEAN	SD	MEAN			SD	N	MEAN	SD			MEAN	SD	N	MEAN			SD	MEAN
9	-	-	-	-	-	-	1	881	-	4500	-	0.66	100	1	881	-	4500	-	0.66	100
14	-	-	-	-	-	-	1	998	-	6950	-	0.70	100	1	998	-	6950	-	0.70	100
TOTAL MEAN	0	-	-	-	-	-	2	940	82.7	5725	1732	0.68		2	940	82.7	5725	1732	0.68	
MEAN AGE	11.5																			

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Table 112. Biological data by length interval for burbot caught by tagging nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES						FEMALES						COMBINED					
	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%	LENGTH(MM)		WEIGHT(G)		K	%
	N	MEAN	MEAN	SD			N	MEAN	MEAN	SD			N	MEAN	MEAN	SD		
190	-	-	-	-	-	-	-	-	-	-	-	-	1	195	50	-	0.67	0
200	-	-	-	-	-	-	-	-	-	-	-	-	1	206	75	-	0.86	0
220	-	-	-	-	-	-	1	223	75	-	0.68	0	1	223	75	-	0.68	0
240	-	-	-	-	-	-	-	-	-	-	-	-	1	240	100	-	0.72	0
TOTAL MEAN	0	-	-	-	-	-	1	223	75	-	0.68		4	216	75	20	0.73	

Table 113. Biological data by age group for burbot caught by tagging nets from Snowbird Lake, 1982.

AGE (YR)	MALES								FEMALES								COMBINED							
	LENGTH(MM)			WEIGHT(G)			K	%	LENGTH(MM)			WEIGHT(G)			K	%	LENGTH(MM)			WEIGHT(G)			K	%
	N	MEAN	SD	MEAN	SD	N			MEAN	SD	MEAN	SD	N	MEAN			SD	MEAN	SD	N	MEAN	SD		
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	1	223	-	75	-	0.68	0	-	2	201	7.8	63	18	0.77	0	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	240	-	100	-	0.72	0	-	
TOTAL	0								1							4								
MEAN		-	-	-	-	-	-	-		223	-	75	-	0.68			216	19.7	75	20	0.73			
MEAN AGE	5.8																							

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Table 114. Biological data by length interval for longnose sucker caught by tagging nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	MALES								FEMALES								COMBINED							
	N	%	LENGTH(MM)			K	N	%	LENGTH(MM)			K	N	%	LENGTH(MM)			K	%					
			MEAN	MEAN	SD				MEAN	MEAN	SD				MEAN	MEAN	SD							
160	-	-	-	-	-	-	-	-	-	-	-	-	2	10	167	75	35	1.63	-					
170	1	8	175	75	-	1.40	-	-	-	-	-	-	1	5	175	75	-	1.40	-					
180	1	8	186	75	-	1.17	-	-	-	-	-	-	2	10	187	63	18	0.96	-					
210	-	-	-	-	-	-	-	-	-	-	-	-	1	5	218	125	-	1.21	-					
240	-	-	-	-	-	-	-	-	-	-	-	-	1	5	243	200	-	1.39	-					
250	1	8	250	200	-	1.28	-	-	-	-	-	-	2	10	254	225	35	1.37	-					
260	2	15	265	225	35	1.22	-	-	-	-	-	-	3	15	263	225	25	1.24	-					
270	1	8	277	275	-	1.29	-	-	-	-	-	-	1	5	277	275	-	1.29	-					
280	4	31	287	363	63	1.54	-	-	-	-	-	-	4	20	287	363	63	1.54	-					
300	1	8	305	350	-	1.23	-	-	-	-	-	-	1	5	305	350	-	1.23	-					
310	1	8	313	450	-	1.47	-	-	-	-	-	-	1	5	313	450	-	1.47	-					
340	1	8	344	550	-	1.35	-	-	-	-	-	-	1	5	344	550	-	1.35	-					
TOTAL	13						0						20											
MEAN			271	298	141	1.37									251	244	143	1.36	0					

Table 115. Biological data by length interval for white sucker caught by tagging nets from Snowbird Lake, 1982.

LENGTH INTERVAL (MM)	N	%	MALES					FEMALES					COMBINED					% FEMALE				
			LENGTH(MM)		WEIGHT(G)			LENGTH(MM)		WEIGHT(G)			LENGTH(MM)		WEIGHT(G)							
			MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN		SD	K	N	%
140	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3		149	50	-	1.51	-	
150	-	-	-	-	-	-	1	20		155	50	-	1.34	6	21		154	50	0	1.36	-	
160	-	-	-	-	-	-	-	-	-	-	-	-	-	2	7		167	50	0	1.08	-	
170	1	8	178		75	-	1.33	1	20		171	50	-	1.00	3	10		174	58	14	1.10	50
180	1	8	187		75	-	1.15	-	-		-	-	-	3	10		187	75	0	1.15	-	
190	1	8	196		100	-	1.33	-	-		-	-	-	2	7		197	100	0	1.31	-	
200	1	8	200		125	-	1.56	-	-		-	-	-	1	3		200	125	-	1.56	-	
220	1	8	224		150	-	1.33	-	-		-	-	-	1	3		224	150	-	1.33	-	
230	1	8	234		150	-	1.17	1	20		230	150	-	1.23	2	7		232	150	0	1.20	50
250	1	8	254		200	-	1.22	1	20		255	250	-	1.51	2	7		255	225	35	1.36	50
260	1	8	261		200	-	1.12	-	-		-	-	-	1	3		261	200	-	1.12	-	
280	1	8	285		350	-	1.51	1	20		285	350	-	1.51	2	7		285	350	0	1.51	50
290	1	8	290		350	-	1.44	-	-		-	-	-	1	3		290	350	-	1.44	-	
300	1	8	305		400	-	1.41	-	-		-	-	-	1	3		305	400	-	1.41	-	
350	1	8	350		550	-	1.28	-	-		-	-	-	1	3		350	550	-	1.28	-	
TOTAL MEAN	12		247		227	151	1.32	5		219	170	130	1.32	29			209	147	133	1.29	29	

Table 116. Weight-length relationships, $\log_{10} W = a + b (\log_{10} L)$, for each fish species (sexes combined) from North Henik, South Henik, Nueltin and Snowbird lakes, Northwest Territories.

Species	N	Y-intercept (a)	Slope (b)	Standard Dev. of b (SD_b)	95% C.I.
<u>North Henik Lake (1980)</u>					
Lake trout					
angled	79	-4.9946	3.003	0.097	2.809-3.197
gillnetted	333	-5.6178	3.227	0.038	3.151-3.234
combined	412	-5.5910	3.217	0.033	3.184-3.250
Lake whitefish	43	-5.4159	3.219	0.091	3.037-3.401
Cisco	66	-2.5612	1.900	0.677	0.546-3254
Longnose sucker	25	-5.5189	3.213	0.136	2.941-3.485
Round whitefish	8	-8.4831	4.422	0.610	3.202-5.642
<u>South Henik Lake (1980)</u>					
Lake trout					
Gillnetted	335	-5.1493	3.057	0.037	2.983-3.131
Lake whitefish	28	-4.4720	2.875	0.509	1.857-3.893
Cisco	18	-9.2275	4.724	0.456	3.812-5.636
Round whitefish	47	-6.9609	3.815	0.212	3.401-4.229
<u>Nueltin Lake (1981)</u>					
Lake trout					
angled	11	-5.1748	3.085	0.099	2.862-3.309
tagged	121	-4.9882	3.009	0.041	2.927-3.091
gillnetted	650	-4.7200	2.913	0.017	2.879-2.947
combined	783	-4.8268	2.952	0.015	2.922-2.981
Lake whitefish	482	-5.3065	3.165	0.019	3.128-3.202
Round whitefish	47	-7.0680	3.839	0.131	3.574-4.103
Cisco	409	-3.9480	2.557	0.117	2.328-2.786
Northern pike	9	-4.6897	2.835	0.315	2.090-3.581
Longnose sucker	304	-4.5115	2.862	0.022	2.818-2.906
White sucker	12	-4.6832	2.935	0.093	2.727-3.143
Burbot	3	-7.633	3.941	0.520	-2.664-10.547
<u>Snowbird Lake (1982)</u>					
Lake trout					
tagged	135	-5.1832	3.082	0.027	3.029-3.134
gillnetted	251	-4.9486	2.991	0.276	2.937-3.045
combined	386	-5.0753	3.038	0.016	3.006-3.070
Lake whitefish	665	-5.7585	3.339	0.029	3.285-3.394
Round whitefish	198	-5.1568	3.068	0.083	2.906-3.230
Cisco	4	-7.3198	4.069	0.671	2.753-5.385
Northern pike	6	-5.5628	3.131	0.636	1.365-4.897
Longnose sucker	24	-5.5738	3.288	0.182	2.910-3.666
White sucker	37	-5.0840	3.076	0.110	2.853-3.300
Burbot	5	-4.6625	2.797	0.141	2.350-3.244
Arctic Grayling	18	-4.8430	2.965	0.111	2.729-3.202

Table 117. Fecundity of lake trout from North Henik, South Henik, Nueltin and Snowbird lakes, Northwest Territories.

Lake	Ova per Female		Mean Length of fish (mm)	Mean Body Weight of Fish (gm)	Mean Ova Diameter (mm)
	Mean	Range			
North Henik (1980)	2 539	1 255-5 661	627	3 013	5.4
South Henik (1980)	2 969	1 227-5 590	627	2 968	5.1
Nueltin (1981)	2 950	1 133-4 153	616	3 033	5.2
Snowbird (1982)	2 858	1 944-4 271	598	2 437	4.1

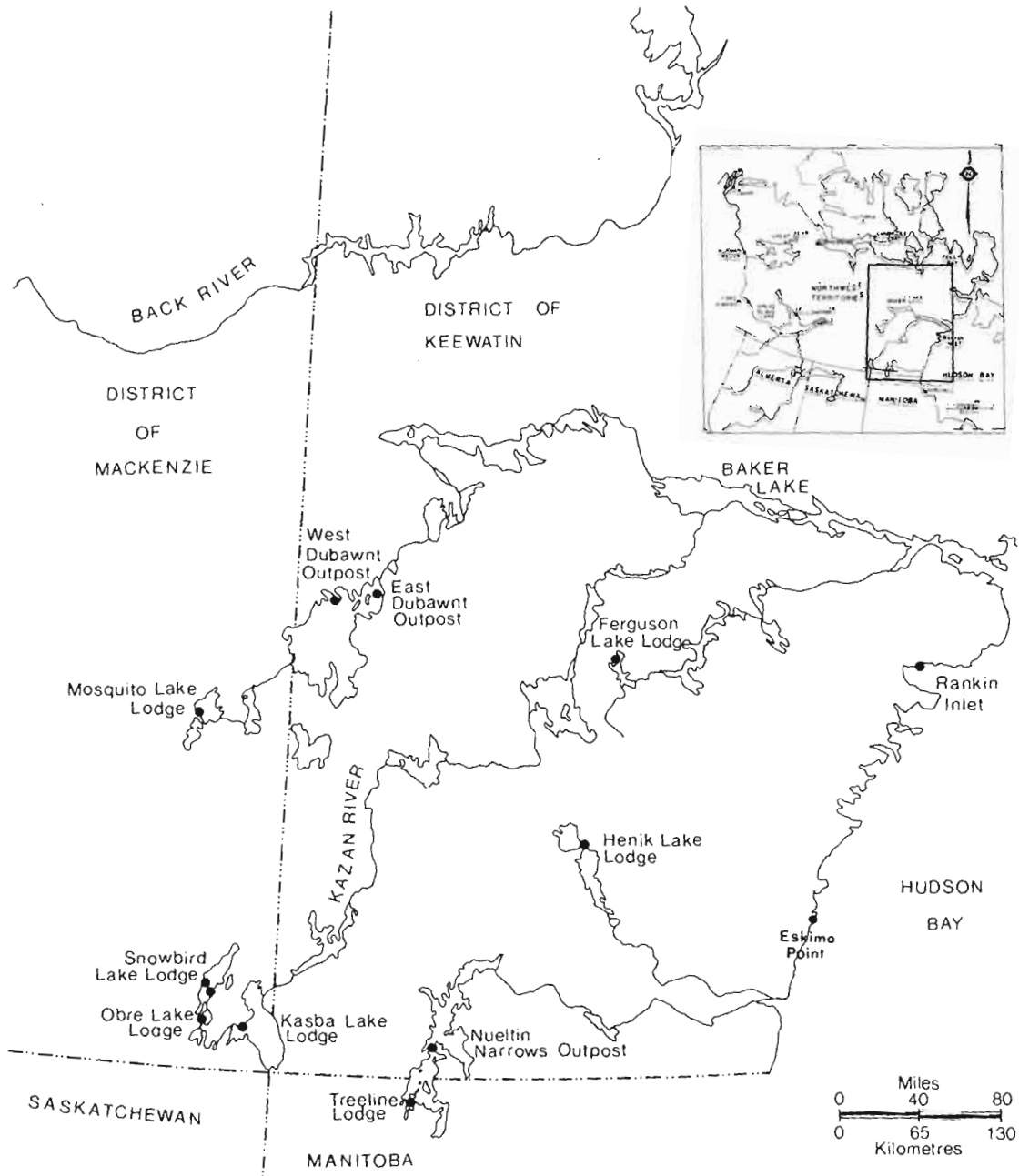


Fig. 1. Map of the District of Keewatin, N.W.T. showing the locations of sport fishing lodges and outpost camps.

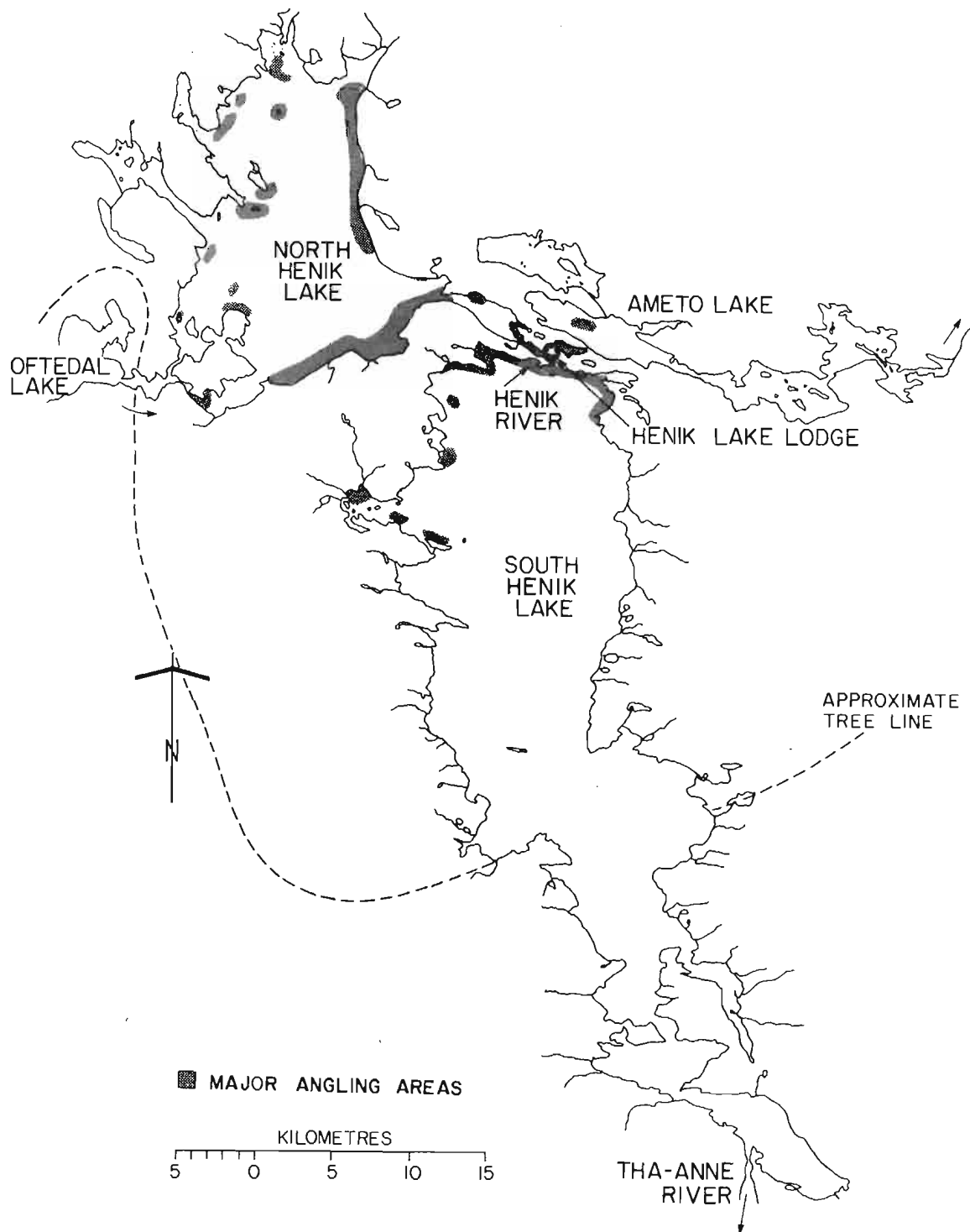


Fig. 2. Map of North Henik and South Henik lakes showing the locations of Henik Lake Lodge and the areas fished for lake trout in 1980.

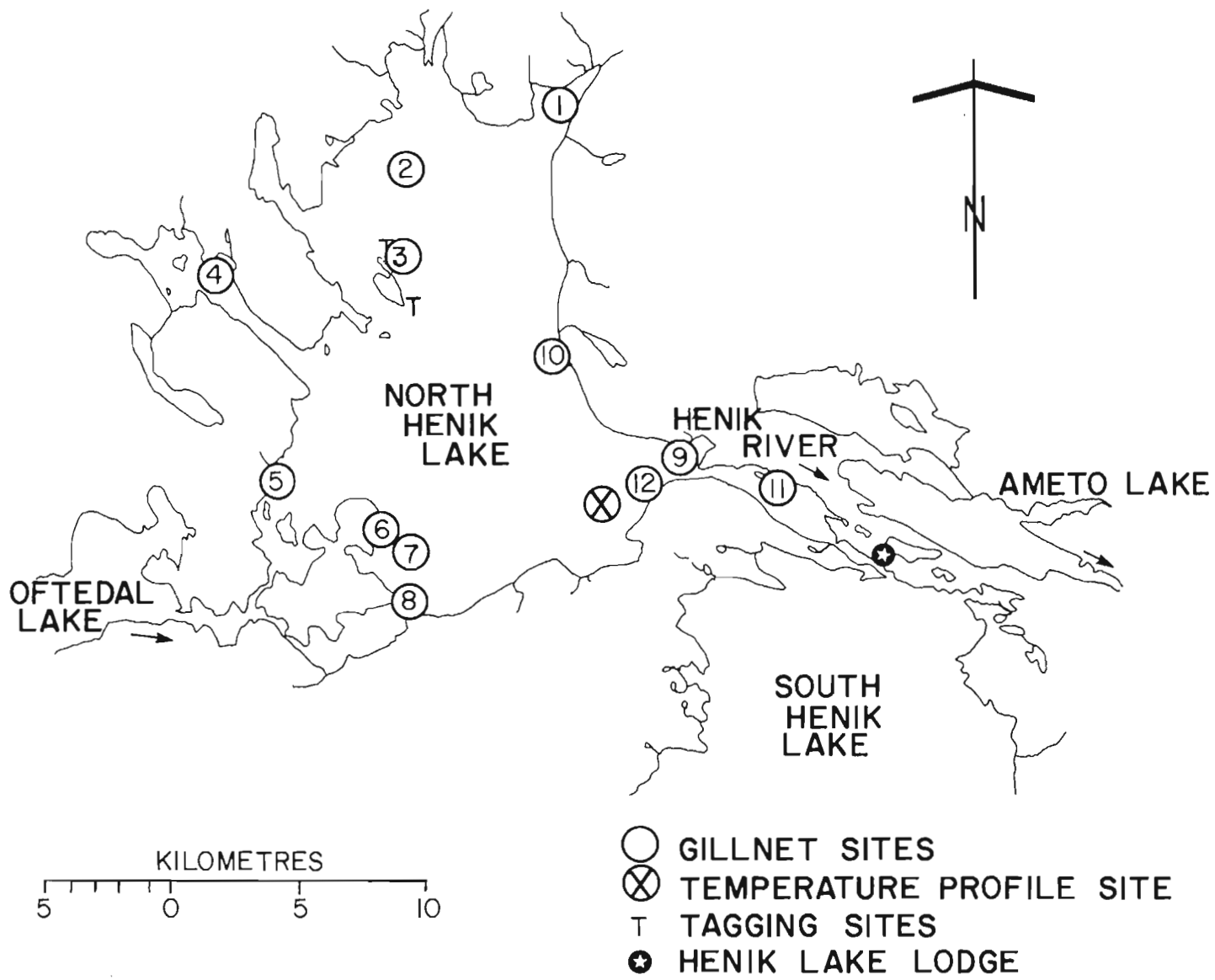


Fig. 3. Map of North Henik Lake showing the experimental net locations and tagging sites, 1980.

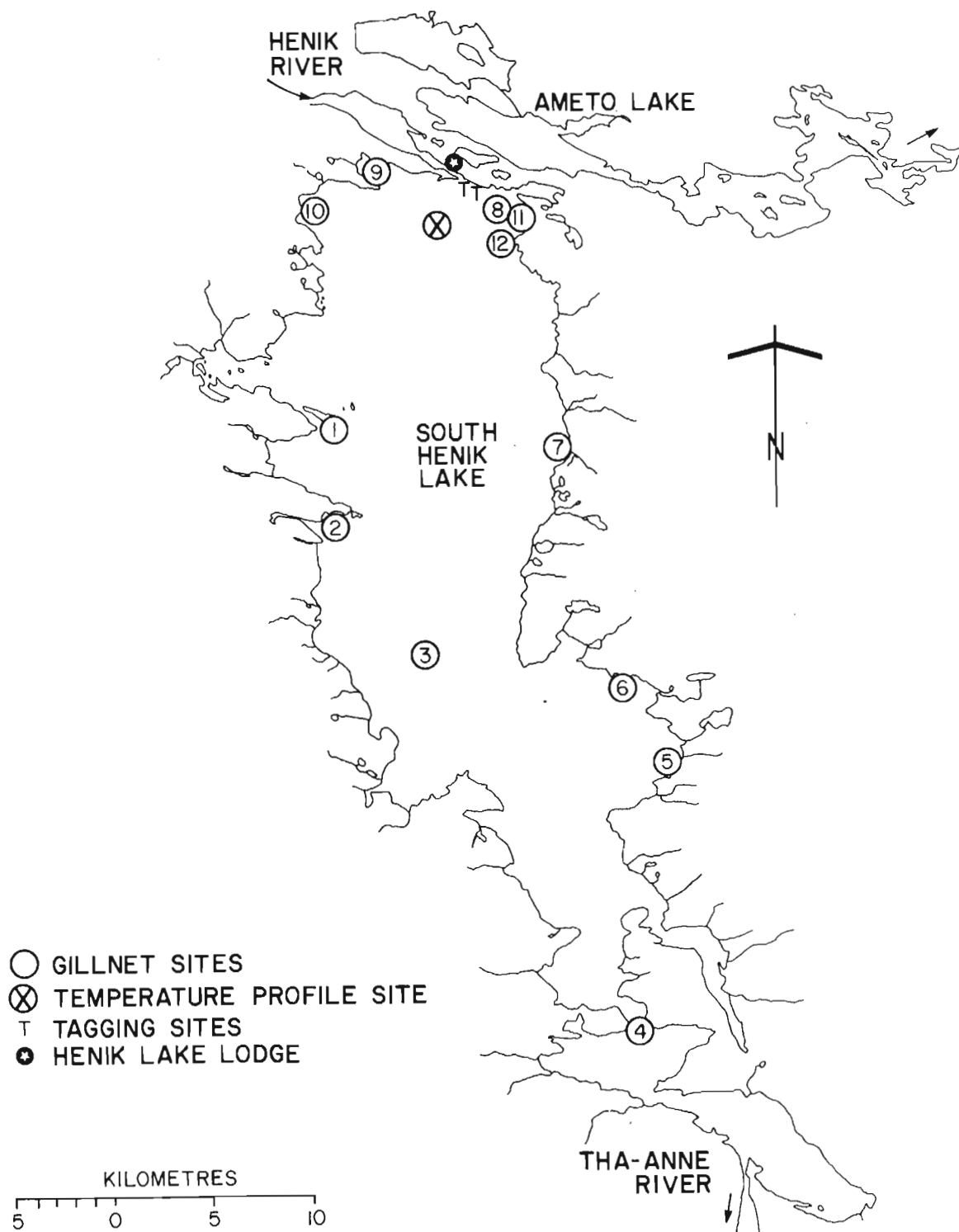


Fig. 4. Map of South Henik Lake showing the experimental net locations and tagging sites, 1980.

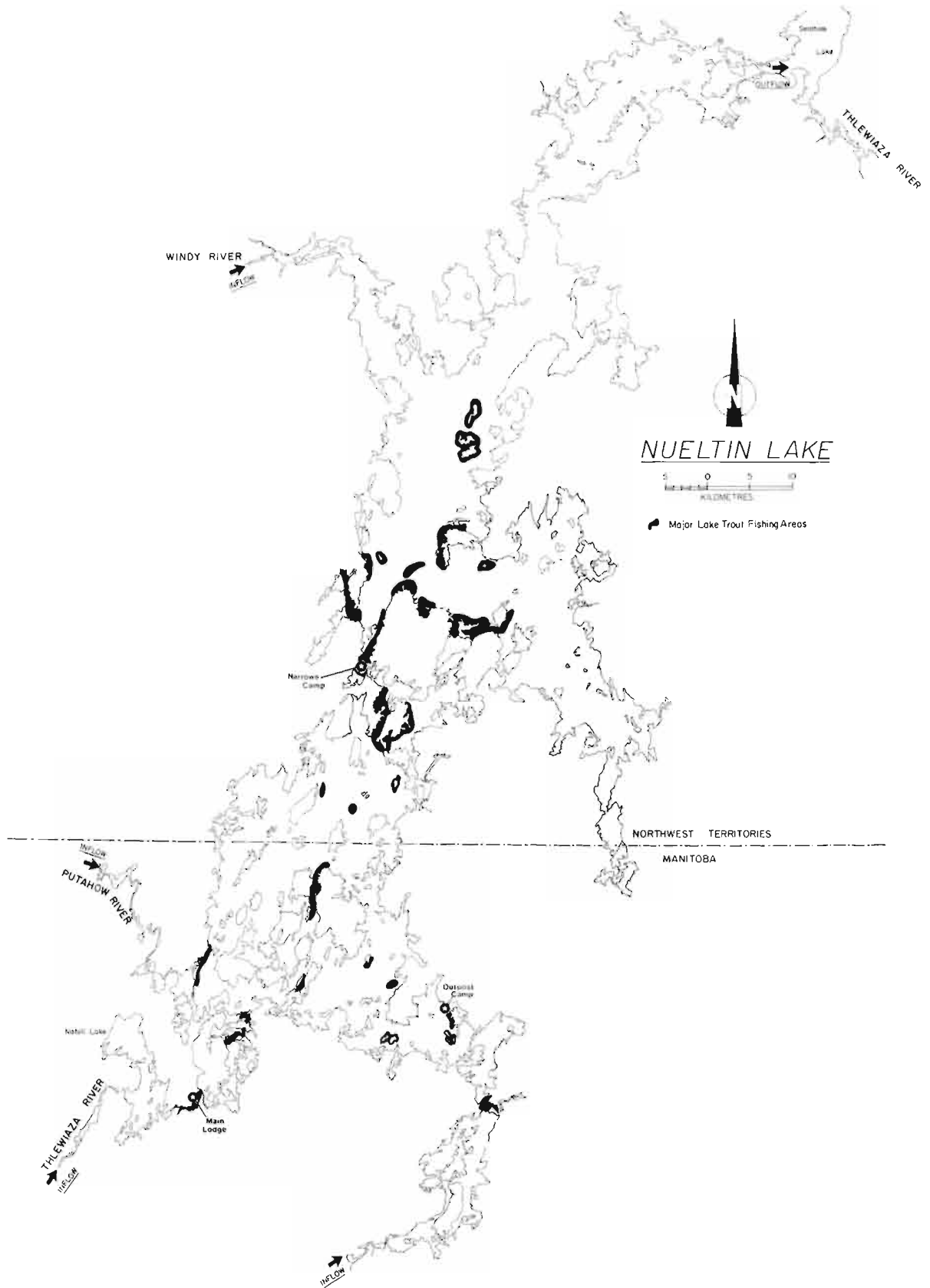


Fig. 5. Map of Nueltin Lake showing the locations of Treeline (Main) Lodge, Narrows Camp and the east outpost camp and the areas fished for lake trout in 1981.

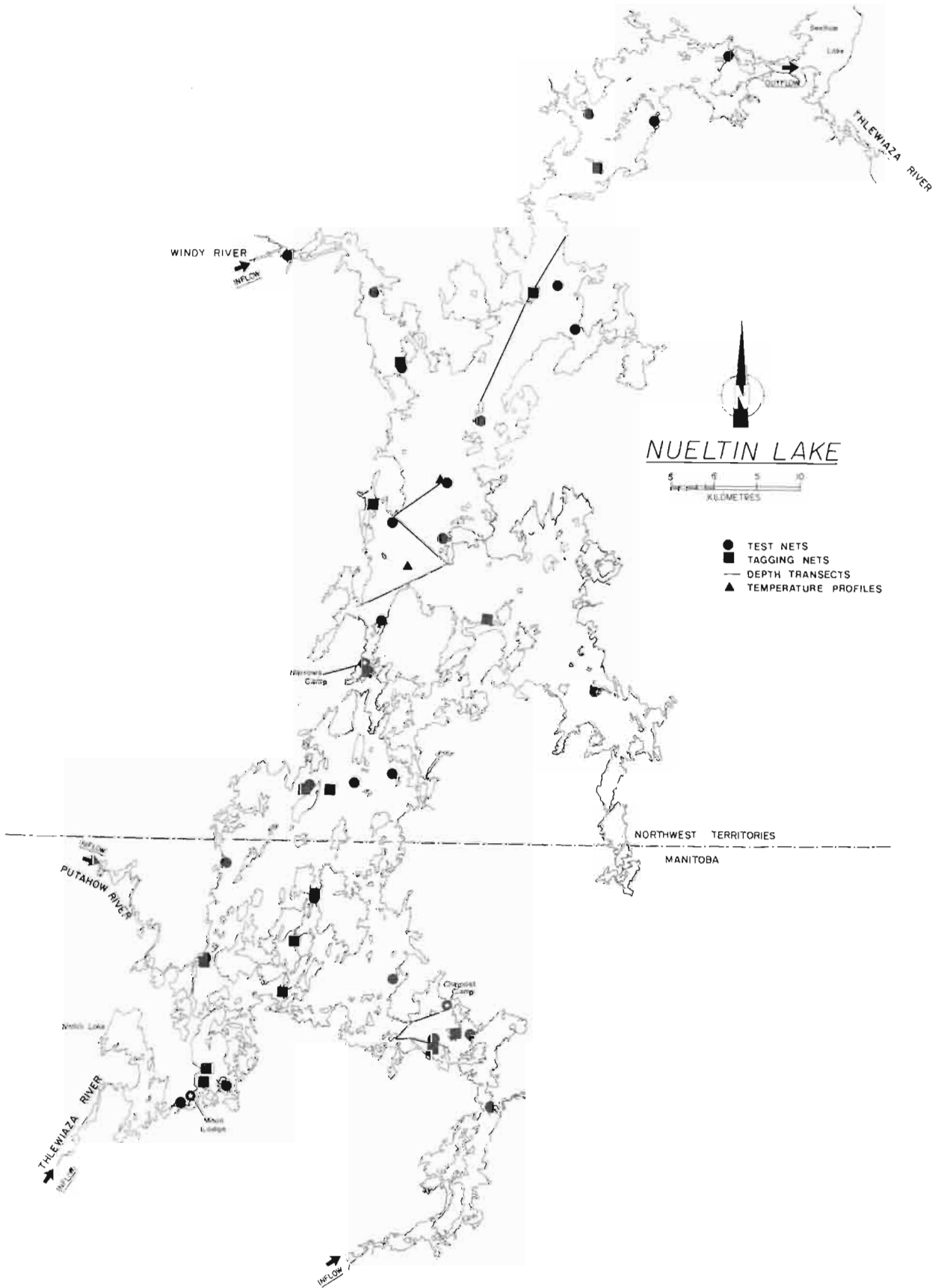


Fig. 6. Map of Nueltin Lake showing the experimental net locations and tagging sites for 1981.

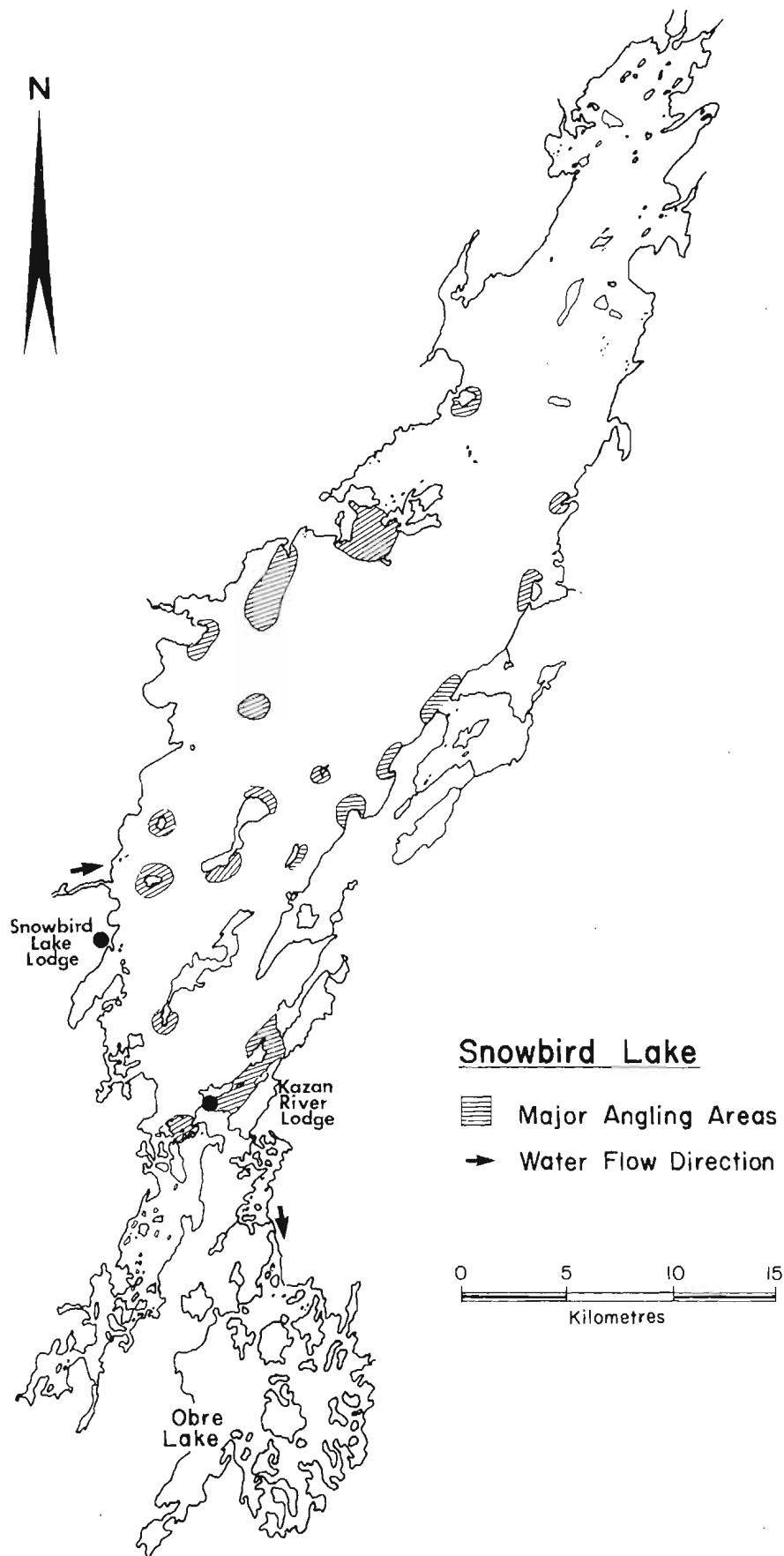


Fig. 7. Map of Snowbird Lake showing the locations of Snowbird Lake Lodge and the areas fished for lake trout in 1982.

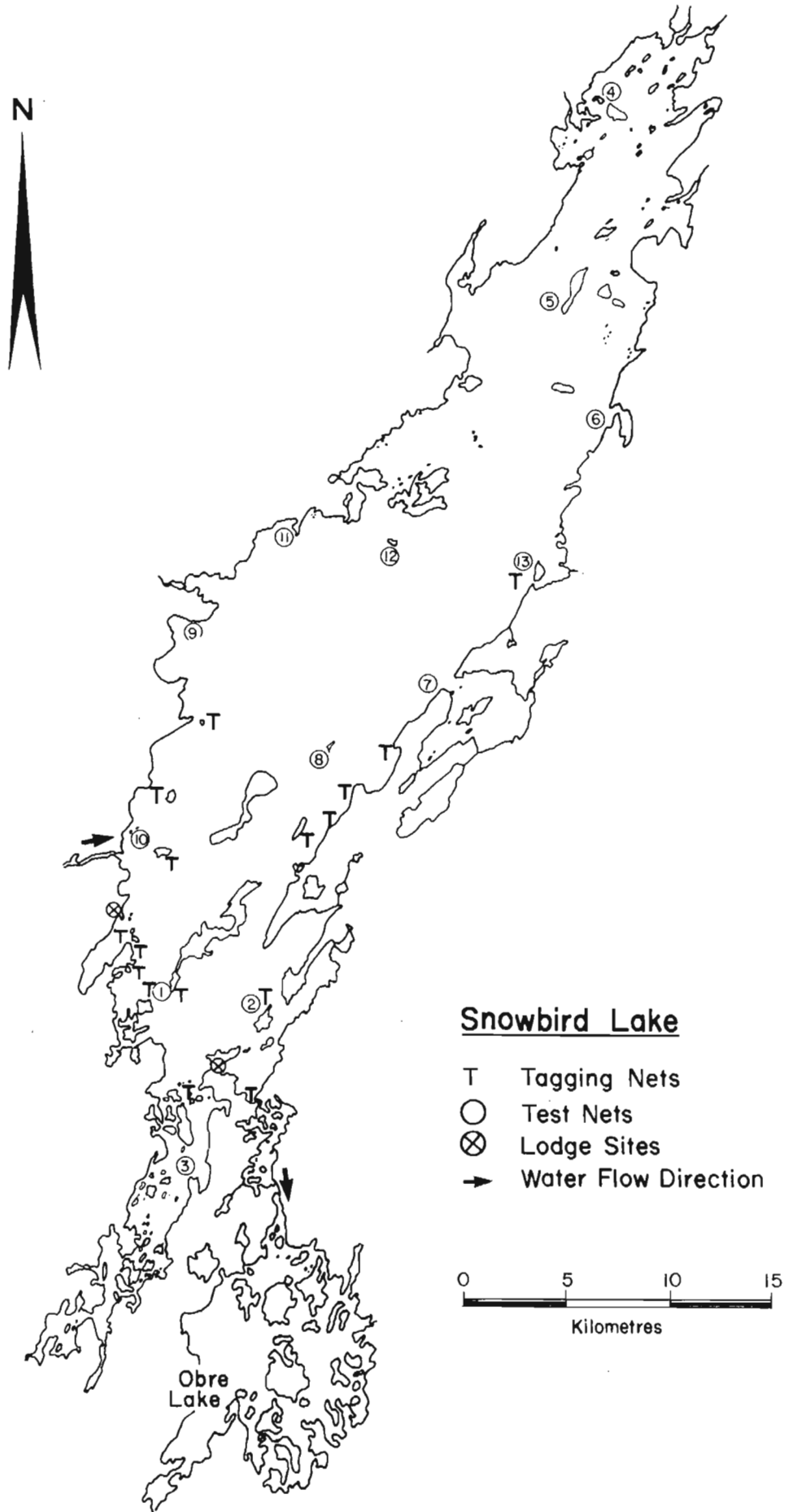


Fig. 8. Map of Snowbird Lake showing the experimental net locations and tagging sites for 1982.

Appendix 1. Summary of information pertaining to lodge operation and creel census survey at Henik Lake Lodge, 1978.

Location	Period	Lodge Operation			Angler-days ²	Period	Creel Census				
		Duration (days)	No. of Guests				Duration (days)	No. Anglers	Angler-days	Angler-hours	
			Calculated	License Sale ¹		Total	Censused				
South Henik Lake	15 July 27 August	43	53	NA	291	18 July 27 August	40	40	53	271	1 839

¹ Provided by Dept. Renewable Resource, Government of Northwest Territories.

² Estimate.

NA = not available.

Appendix 2. Observed catch, effort and catch/effort statistics of anglers during the creel census survey at Henik Lake Lodge, 1978.

Location	Species	Catch		Angler effort		Fish per angler		Fish per angler-day		Fish per angler-hour	
		No.	Wt(Kg)	days	hours	No.	Wt(kg)	No.	Wt(kg)	No.	Wt(Kg)
Henik lakes	lake trout	2 665	-	271	1 839	50.3	-	9.8	-	1.5	-

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Appendix 3. Summary of harvest statistics for Henik lakes, 1978.

Location	Species	Census Harvest ¹		Total Harvest ²		Hectare fished		Harvest per Hectare available		Angler	
		No.	Wt(kg)	No.	Wt(kg)	No.	Wt(kg)	No.	Wt(kg)	No.	Wt(kg)
Henik Lakes	lake trout	222	-	581	-	NA	-	0.01	-	10.96	-

¹ Includes fish retained only.

² Includes fish retained, shore lunches and estimated release mortality (7%).

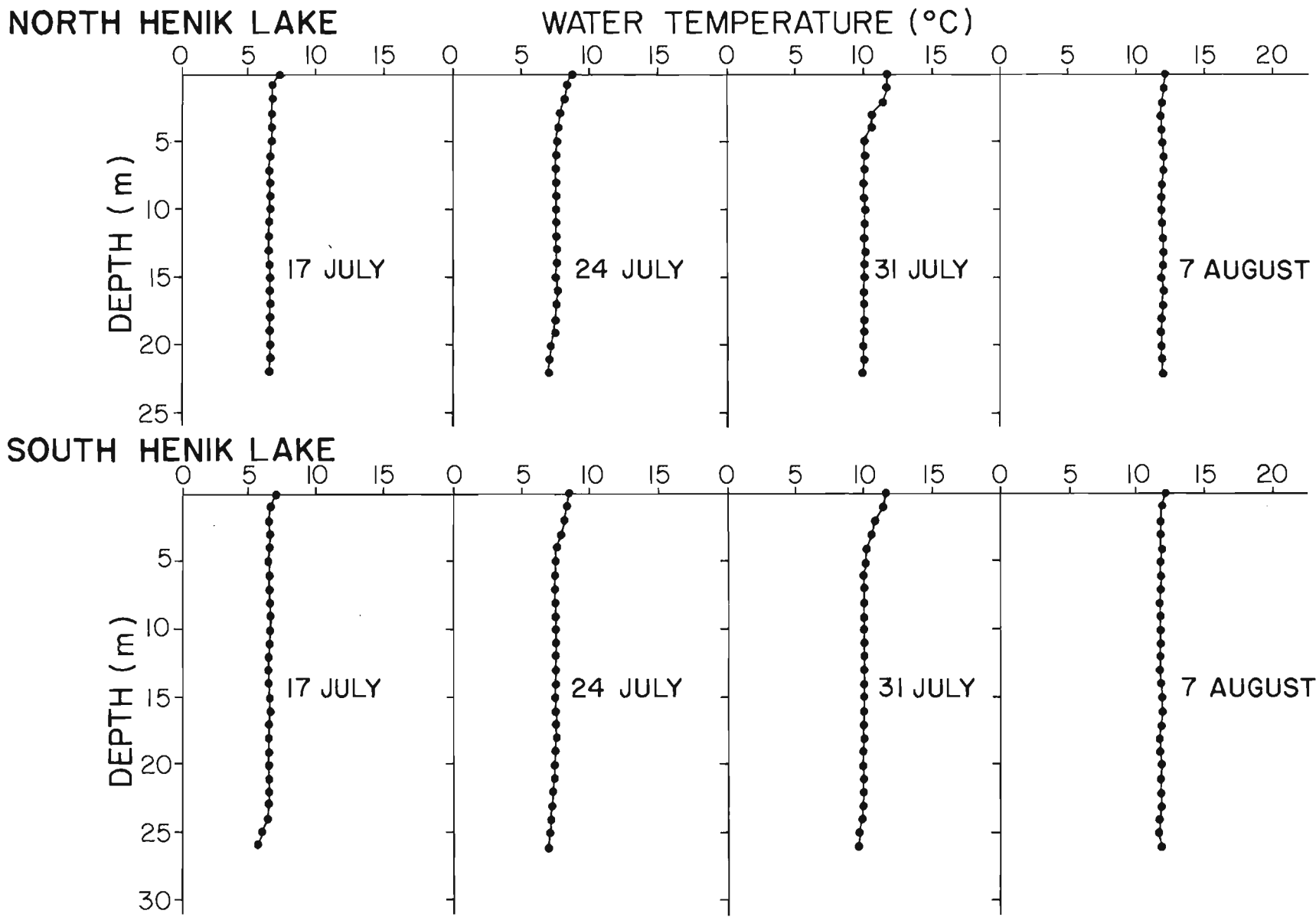
NA = Not available.

Appendix 4. Summary of information on location, sample dates, sample locations, set duration, depths and catch per unit of effort for experimental gillnets and tagging nets on North Henik and South Henik lakes, 1980.

Location ^a	Date	Set Number	Location Number	Set Duration (h)	Water Depth (m)	Total Catch	CPE ^b
SH	July	11	1	23.5	4	53	23.8
SH		12	2	19.5	4	32	17.3
SH		13	3	21.5	7	20	9.8
SH T		13	1	21.5	4	9	-
SH		14	4	22.0	4	9	4.3
SH		15	5	-	-	10	-
SH		16	6	-	3	36	-
SH		17	7	25.0	6	30	12.7
SH T		17	1	16.5	5	18	-
SH		18	8	25.0	-	28	11.8
SH		19	9	-	17	67	-
NH		20	1	-	7	38	-
NH		21	2	22.5	6	38	17.8
NH		23	3	49.0	4	62	13.4
NH		24	4	23.0	6	49	22.5
NY T		24	1	-	-	36	-
NH		25	5	23.5	7	26	11.7
SH T		25	1	-	-	33	-
NH		26	6	23.0	7	22	10.1
SH T		26	4	-	-	27	-
NH		27	7	24.5	12	64	27.6
SH T		27	5	-	-	12	-
NH		28	8	24.0	4	50	22.
NH		29	9	27.0	8	6	2.3
NH		30	10	28.5	9	60	22.2
SH T		31	6	-	4	5	-
NH	August	1	11	-	4	18	-
NH		2	12	25.0	5	33	13.9
SH		4	10	25.0	3	18	7.6
SH		5	11	25.0	3	13	5.5
SH T		5	6	29.0	4	51	-
SH		6	12	24.0	4	46	20.2
NH		10	2	-	3	26	-
NH T		11	3	24.0	3	26	-
NH T		12	4	24.0	3	28	-
NH T		13	5	24.0	3	25	-
NH T		14	6	24.0	4	18	-
NH T		15	7	24.0	4	24	-
NH T		16	8	24.0	3	15	-
NH T		18	9	48.0	4	8	-
NH T		19	10	24.0	4	6	-
SH T ₂		19	7	28.0	4	45	-
NH T		20	11	24.5	4	14	-
SH T ₂		20	8	22.0	4	33	-
NH T		21	12	23.5	4	7	-
SH T ₂		21	9	24.0	5	31	-
SH T ₂		22	10	24.0	5	17	-
SH T		23	13	48.0	4	48	-

^a SH = South Henik Lake, NH = North Henik Lake.
 T = tagging gang of 1 x 38 mm and 1 x 64 mm mesh.
 T = tagging gang of 1 x 38 mm, 1 x 64 mm and 1 x 89 mm mesh.

^b Catch per unit of effort for standard gillnet sets (No. fish per 100 m of gillnet per 24 h).



Appendix 6. Summary of information on sample dates, sample locations, set duration, depths and catch per unit of effort for experimental gillnets and tagging nets on Nueltin Lake, 1981.

Date ¹	Set Number	Location Number	Set Duration (h)	Water Depth (m)	Total Catch (kg)	CPE ²
June 27	1	1	12.5	4	74	56.8
28	2	2	10	4	34	32.6
28 T	3	1	16	-	21	12.6
29	4	3	21.5	4	63	28.1
29 T	5	2	28.5	-	5	1.7
30	6	4	19	6	20	10.1
July 1 T	7	3	28.5	-	81	27.3
2	8	5	22	1	48	21.0
3 T	9	4	22	-	13	5.7
5 T	10	5	24	-	18	7.2
6	11	6	24.5	4	41	16.1
7	12	7	26.5	4	34	12.3
7 T	13	6	27	-	7	2.5
7 T	14	7	26	-	8	3.0
8 T	15	8	51	-	38	7.2
8	16	8	51	17	153	28.8
11 T	17	9	20.5	-	13	6.1
12 T	18	10	22	-	34	14.9
12	19	9	22.5	2	54	23.0
13 T	20	11	23	-	23	9.6
13	21	10	19	13	31	15.7
14 T	22	12	22.5	-	26	11.1
14	23	11	21	5	80	36.6
15 T	24	13	23.5	-	21	8.6
15 T	25	14	23	-	5	2.1
16 T	26	15	26.5	-	17	6.2
16 T	27	16	25.5	-	6	2.3
17	28	12	18	7	20	10.7
18	29	13	40.5	5	146	34.6
19 T	30	17	26	-	35	12.9
19 T	31	18	27	-	32	11.4
20 T	32	19	-	-	23	-
21	33	14	23	7	109	45.5
21 T	34	20	23.5	-	33	13.5
25	35	15	26	13	28	10.3
26	36	16	22.5	9	91	38.8
29	37	17	19.5	6	58	28.6
30	38	18	18	3	210	112.0
31	39	19	16.5	8	108	62.8
Aug. 1	40	20	20.5	3	28	13.1
5	41	21	18	6	47	25.1
5 T	42	21	25	-	17	6.5
6	43	22	22	2	90	39.3
6 T	44	22	12.5	-	16	12.3
7	45	23	-	-	35	-
7	46	24	13	-	28	20.7
8 T	47	23	24	-	16	6.4
8	48	25	20	7	40	19.2
9 T	49	24	23.5	-	49	20.0
9	50	26	19	4	59	29.8
10 T	51	25	10	-	13	12.5
12 T	52	26	19	-	68	34.4
12	53	27	21.5	9	70	31.3
14 T	54	27	25	-	22	8.4
14	55	28	19	3	26	13.1
15 T	56	28	-	-	36	-
16 T	57	29	-	-	35	-
16	58	29	19	5	87	44.0
17 T	59	30	-	-	44	-

¹ Date only indicates standard gang; T = tagging gang of 1x38 mm and 1x64 mm mesh, each of 47.5 m lengths.

² Catch per unit of effort for standard gillnet gang sets (No. fish per 100 m gillnets per 24 h).

Appendix 7. Summary of information on sample dates, sample locations, set duration, depths, and catch per unit effort for experimental gillnets and tagging nets on Snowbird Lake, 1982.

Date ^a	Set Number	Location Number	Set Duration (h)	Water Depth (m)	Total Catch	CPE ^b
July	5 T	1	20	6	8	3.8
	6 T	2	23	6	15	6.3
	7 T	3	23	4	13	5.4
	8 T	4	24.5	5	7	2.7
	9 T	5	22	5	8	3.5
	9	6	23.5	7	26	10.6
	10 T	7	24	11	19	7.6
	10	8	23	5	66	27.6
	11 T	9	19.5	4	9	4.4
	11	10	19.5	4	30	14.8
	12 T	11	23	5	16	6.7
	13 T	12	23	5	25	10.4
	14 T ₂	13	23	5	12	5.0
	14 T	14	18.5	9	3	1.6
	15 T ₂	15	24	5	18	7.2
	15 T	16	24	6	5	2.0
	16 T ₂	17	23.5	5	16	6.5
	16 T	18	27.5	14	2	0.7
	17 T ₂	19	27	9	30	10.7
	17 T	20	24.5	13	14	5.5
	18 T ₂	21	25	9	17	6.5
	21	22	72	6	69	9.2
	22	23	17	12	25	14.1
	23	24	22	14	63	27.5
	24 T ₂	25	28.5	9	19	6.4
	25 T	26	17.5	8	10	5.5
	25 T ₂	27	17	10	31	17.5
	26 T	28	24	14	8	3.2
	26 T ₂	29	21.5	10	8	3.6
	27 T ₂	30	23	10	11	4.6
	27 T	31	23.5	12	11	4.5
	28 T ₂	32	23	11	27	11.3
	28 T	33	23	12	23	9.6
	29 T	34	23.5	10	27	11.0
	29 T ₂	35	23.5	12	27	11.0
	30 T	36	22	12	44	19.2
	30	37	24	7	60	24.0
	31 T	38	30	7	48	15.4
Aug.	1 T	39	17.5	7	26	14.3
	2 T	40	23	7	18	6.5
	2	41	23	10	22	9.2
	3 T	42	23.5	7	26	10.6
	4	43	41.5	4	28	6.5

Date ^a	Set Number	Location Number	Set Duration (h)	Water Depth (m)	Total Catch	CPE ^b
Aug.	6 T	44	23	5	16	6.7
	6 T ₃	45	23	3	10	4.2
	7 T ₃	46	22	9	14	6.1
	7 T	47	22	12	40	17.5
	8 T	48	21	10	28	12.8
	8	49	19.5	5	89	43.8
	9 T	50	23.5	5	52	21.2
	9	51	20.5	12	74	34.7
	10 T	52	23	4	21	8.8
	10	53	17.5	6	27	14.8
	11 T	54	23.5	6	20	8.2
	11	55	22	13	48	21.0
	12 T	56	23.5	6	20	8.2
	13 T	57	22	9	41	17.9
	13 T ₂	58	22	5	40	17.5
	14 T	59	20	11	40	19.2
	14 T ₃	60	23	5	42	17.5

^aDate only indicates standard gang; T = tagging gang of 1 x 38 mm and 2 x 64 mm mesh. T₂ = tagging gang of 1 x 38 mm and 1 x 64 mm mesh, each net 47.5 m long. 88

^bCatch per unit effort for standard gillnet sets (No. fish per 100 m of gillnet per 24 h).

