

LAKE COLBY
020106

* LOCATION and STATUS *

Latitude: 442002
Longitude: 740914
Elevation: 474 m
Quadrangle: D246 SARANAC LAKE
County: FRANKLIN
Park Zone: IN PARK - IN ZONE
Ownership: MIXED
Posting: PARTLY POSTED

APA State: WILD FOREST AREA - SARANAC LAKES
APA Private: HAMLET

* Access *

Type	Owner-ship	Posted Status	Distance To Road	Road Class
ROAD	PUBLIC	NOT POSTED	.1 km	2 WHEEL DR

* Boat Access *

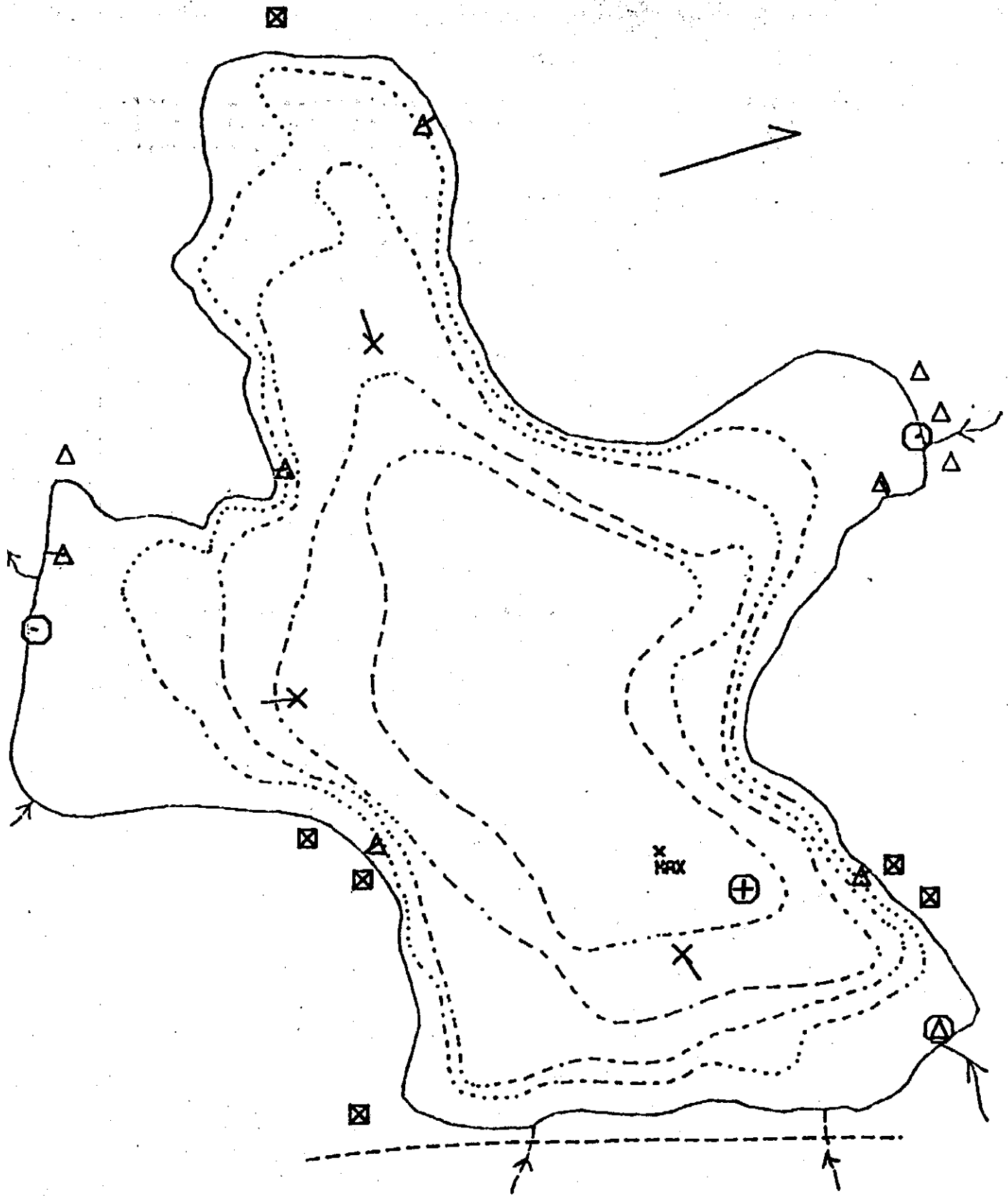
Type: HAND LAUNCH
Ownership: PUBLIC

General Watershed Characteristics(%)

Deciduous Forest: 25
Coniferous Forest:
Decid-Conif Mix: 15
Shrub-Sapling Area:
Wetland:
Open Grass:
Agricultural:
Developed: 60

Immediate Shoreline Characteristics(%)

Deciduous Forest: 15
Coniferous Forest: 30
Decid-Conif Mix: 50
Shrub-Sapling Area:
Wetland:
Open Grass:
Agricultural:
Developed:
Sand-Gravel Beach: 5
Boulder Rock Ledge:



LAKE COLBY

02-0106
 DEC 1973
 SCALE: 1 INCH = 650 FEET
 CONTOUR INTERVAL: 10 FEET
 SURFACE AREA: 272 ACRES
 MAXIMUM DEPTH: 47 FEET

- △ MARSH/WETLAND
- ⊠ DWELLING
- ROAD/TRAIL

- ⊕ 11/1/84 WATER CHEMISTRY
- ⊗ 150 FT SWEDISH GILL NET
- ⊙ 30 FT MINNOW NET
- ⊖ TRAP NET
- ⊕ MINNOW TRAP

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* MORPHOMETRICS *

AREA Surface(SA): 110.1 ha
 Watershed(WA): 920.3 ha
 Littoral: 28.3 ha
 SA/WA: .12

DEPTH: Mean: 7.7 m
 Max: 14.3 m

 Volume: 7873631 m³
 Shoreline Length: 5.9 km
 Runoff: 64 cm
 Flushing Rate: .7 times/year
X Shoreline Slope <5 deg.: 60

* Shoalwater Substrate(%) *

Bedrock: 10
Gravel: 10
Sand: 60
Muck/Silt: 15
Organic: 5

Date: 10/31/1984

INLET:

1 Estimated Flow:
2 Estimated Flow:

OUTLET:

1 Estimated Flow: 200 liters/minute
Outlet Dam: NO

Remarks:

Date: 10/31/1984

TRIBUTARIES COULD NOT BE MEASURED DUE TO HIGH WINDS.
INLETS VERY SMALL, OUTLET VISUALLY ESTIMATED AT 200 L/MIN.
LARGE BEAVER HOUSE. RECENT ACTIVITY.

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* INVERTS/MACROPHYTES *

MACROINVERTEBRATES

Date: 10/30/1984

Method: D-FRAME DIP NET

Phylum	Class	Order	Family
ARTHROPODA	CRUSTACEA	AMPHIPODA	UNSPECIFIED
	INSECTA	EPHEMEROPTERA	HEPTAGENIIDAE
		COLEOPTERA	PSEPHENIDAE
MOLLUSCA	GASTROPOD	BASOMMATOPHORA	PLANORBIDAE

AQUATIC MACROPHYTES

Date: 10/31/1984

	Type (%)
Emergent vegetation:	5
Submergent vegetation:	10
Floating vegetation:	5
Open water:	90

Species

CHARA spp.
POTAMOGETON spp.
ELODEA spp.
NUPHAR spp.
NYMPHAEA spp.
BRASENIA spp.
UTRICULARIA spp.

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* FISHERIES *

Date: 10/31/1984

* Station: 1	OS TRAP NET 4X4" MIN DEPTH: .1 m	24.7 hrs MAX DEPTH: 9.0 m		
Species	#	Total Wt (gm)	Length Range(mm)	
PUMPKINSEED	26	500	-	
* Station: 2	OS TRAP NET 4X4" MIN DEPTH: .1 m	24.0 hrs MAX DEPTH: 3.5 m		
Species	#	Total Wt (gm)	Length Range(mm)	
KOKANEE	3	910	-	
RAINBOW SMELT	1	25	190	-190
BROWN BULLHEAD	11	1390	-	
PUMPKINSEED	72	860	106	-157
YELLOW PERCH	12	2170	-	
* Station: 3	OS TRAP NET 4X4" MIN DEPTH: .1 m	22.2 hrs MAX DEPTH: 3.0 m		
Species	#	Total Wt (gm)	Length Range(mm)	
KOKANEE	55	14140	298	-350
BROWN TROUT	2	1200	340	-410
GOLDEN SHINER	7	300	145	-174
BROWN BULLHEAD	30	1850	100	-225
PUMPKINSEED	10	210	96	-210
SMALLMOUTH BASS	2	440	210	-245
YELLOW PERCH	10	1160	122	-310

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* FISHERIES *

Date: 10/31/1984

* Station: 4 OS TRAP NET 4X4' 22.4 hrs
MIN DEPTH: .1 m MAX DEPTH: 3.0 m

Species	#	Total Wt (gm)	Length Range(mm)
KOKANEE	20	5300	-
RAINBOW SMELT	1	20	157 -157
GOLDEN SHINER	26	595	-
BROWN BULLHEAD	28	1150	-
PUMPKINSEED	56	1000	-
SMALLMOUTH BASS	1	25	120 -120
YELLOW PERCH	19	1420	-

* Station: 5 MAS TRAP NET .25" M 23.1 hrs
MIN DEPTH: .1 m MAX DEPTH: 2.0 m

Species	#	Total Wt (gm)	Length Range(mm)
KOKANEE	1	290	-
GOLDEN SHINER	53	1100	-
BROWN BULLHEAD	171	7900	-
YELLOW PERCH	36	1820	-

* Station: 6 MAS TRAP NET .25" M 22.2 hrs
MIN DEPTH: .1 m MAX DEPTH: 2.1 m

Species	#	Total Wt (gm)	Length Range(mm)
KOKANEE	6	1730	287 -324
BROWN TROUT	1	850	392 -392
GOLDEN SHINER	2	100	-
BROWN BULLHEAD	7	1000	-
PUMPKINSEED	17	300	-
YELLOW PERCH	1	290	-

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* FISHERIES *

Date: 10/31/1984

* Station: 7 M-TRAP.25METAL 25.8 hrs
DEPTH SET: 1.0 m

Species	#	Total Wt (gm)	Length Range(mm)
NO FISH CAUGHT			-

* Station: 8 MO G-NET 30X5'.75" 23.8 hrs
MIN DEPTH: .8 m MAX DEPTH: 1.0 m

Species	#	Total Wt (gm)	Length Range(mm)
KOKANEE	1	270	-
RAINBOW SMELT	5	70	140 -167
GOLDEN SHINER	21	180	87 -114
PUMPKINSEED	1	8	57 -57

* Station: 9 E-S GILL NET 150' 6.3 hrs
MIN DEPTH: 7.0 m MAX DEPTH: 7.3 m

Species	#	Total Wt (gm)	Length Range(mm)
RAINBOW TROUT	1	460	345 -345
PUMPKINSEED	4	115	108 -150
SMALLMOUTH BASS	1	1100	410 -410
YELLOW PERCH	1	70	202 -202

* Station:10 MU G-NET 30X5'.75" 6.5 hrs
MIN DEPTH: 1.0 m MAX DEPTH: 2.1 m

Species	#	Total Wt (gm)	Length Range(mm)
GOLDEN SHINER	4	31	75 -103
YELLOW PERCH	9	705	142 -226

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* FISHERIES *

Date: 10/31/1984

* Station:11 E-S GILL NET 150' 6.2 hrs
MIN DEPTH: 7.0 m MAX DEPTH: 10.0 m

Species	#	Total Wt (gm)	Length Range(mm)
BROWN TROUT	1	880	440 -440
SMALLMOUTH BASS	1	1400	408 -408
YELLOW PERCH	2	630	290 -295

* Station:12 E-S GILL NET 150' 4.9 hrs
MIN DEPTH: 12.0 m MAX DEPTH: 12.5 m

Species	#	Total Wt (gm)	Length Range(mm)
RAINBOW SMELT	1	20	161 -161
BROWN BULLHEAD	2	455	220 -258
YELLOW PERCH	14	1780	152 -297

Remarks:

Date: 10/31/1984

GILL NETS PULLED EARLY TO MINIMIZE MORTALITY.

ALL FISH FROM TRAP NETS RELEASED - NO INTERNAL EXAMINATIONS.

MOST SPINY-RAYED FISH WITH BLACKSPOT.

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* CHEM/PHYS PARAMETERS *

* MIDSUMMER TEMPERATURE PROFILE *

Date: 07/25/1984	Station	Depth(m)	Temp (deg. C)
	1	0.0	22.8
	1	1.5	22.8
	1	3.0	22.8
	1	6.0	22.2
	1	6.3	21.1
	1	7.5	15.0
	1	9.0	13.3
	1	10.6	10.0
	1	11.0	9.4
	1	11.5	8.9
	1	12.5	8.9
	1	14.0	8.3

* Midsummer Sample date: 07/25/1984

Station: 1

Sample
Depths(m)

1.5
11.0

** ANIONS (mc/L) **

SO4	NO3-N	CL	F	TOTAL P1	TOTAL P2
9.06	LTD	25.60	.047	.020	.012
8.82	LTD	25.55	.054	.021	.018

** CATIONS (mg/L) **

Ca	Mg	Na	K	NH4-N
10.16	2.19	13.07	.60	LTD
10.10	2.19	13.03	.59	LTD

** TRACE METALS (mg/L) **

Al	Fe	Mn
LTD	.018	.002
LTD	.051	.090

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* CHEM/PHYS PARAMETERS *

* Midsummer Sample Date: 07/25/1984

Station: 1

** OTHER **

Lab pH	Air-Ea pH	Field pH	SiO ₂ (mg/L)	D.O. (mg/L)
7.99	7.65	7.55	.1	9.0
7.19	7.33	6.75	1.1	2.6

ANC (ueq/l)	DIC (mg/L-C)	DOC (mg/L-C)	Specific Conductance (umhos x cm-1)
471.6	5.38	4.9	136.3 ●
481.4	6.24	4.4	133.7 ●

True Color Lab (Pt-Co)	Apparent Color Field (Pt-Co)	Visual Color BLUE-GREEN	Secchi Reading (m)
20	25		5.0
15			

* Sample Date: 10/30/1984

Station: 91

sample
Depths (m)

Triplicate Sample

1.5

** ANIONS (mg/L) **

SO ₄	NO ₃ -N LTD ●	CL	F	TOTAL P1	TOTAL P2
7.73		18.50	.055	.032	.034

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* CHEM/PHYS PARAMETERS *

* Sample Date: 10/30/1984

Station: 93

Sample
Depths (m)

Triplicate sample

1.5

** ANIONS (mg/l) **

S04	NO3-N	Cl	F	TOTAL P1	TOTAL P2
7.53	LTD	20.40	.060	.025	

** CATIONS (mg/L) **

Ca	Mg	Na	K	NH4-N
11.35	.45	13.37	.63	.05

** TRACE METALS (mg/l) **

Al	Fe	Mn
.017	.015	.008

** OTHER **

Lab pH	Air-En pH	Field pH	SiO2 (mg/l)	D.O. (mg/l)
7.43	7.65	6.61	1.4	

ANC
(ueq/L)
400.4

DIC
(mg/l-C)
6.59

DOC
(mg/l-C)
4.5

Specific
Conductance
(umhos x cm-1)
138.3

True Color
Lab
(Pt-Co)
15

Apparent
Color
Field
(Pt-Co)
15

Visual
Color

Secchi
Reading (m)

Remarks:
Date: 10/31/1984

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* CHEM/PHYS PARAMETERS *

* Sample Date: 10/30/1984

Station: 91

Triplicate Sample

** CATIONS (mg/L) **

Ca	Mg	Na	K	NH4-N
11.14	.45	13.98	.64	.05

** TRACE METALS (mg/L) **

Al	Fe	Mn
.012	.012	.008

** OTHER **

Lab pH	Air-Eq pH	Field pH	SiO2 (mg/L)	D.O. (mg/L)
7.40	7.69	6.57	1.4	

ANC
(ueq/L)
474.9

DIC
(mg/L-C)
6.94

DOC
(mg/L-C)
4.4

Specific
Conductance
(umhos x cm-1)
138.3

True Color
Lab
(Pt-Co)
15

Apparent
Color
Field
(Pt-Co)
20

Visual
Color
LIGHT BROWN

Secchi
Reading (m)
3.7

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* CHEM/PHYS PARAMETERS *

* Sample Date: 10/30/1984

station: 92

Sample
Depth(s)(m)

Triplicate Sample

1.5

** ANIONS (mg/l) **

S04	NO3-N	CL	F	TOTAL P1	TOTAL P2
7.26	.010	17.50	.041	.027	

** CATIONS (mg/L) **

Ca	Mg	Na	K	NH4-N
11.04	.45	13.27	.64	.05

** TRACE METALS (mg/l) **

Al	Fe	Mn
.012	.013	.007

** OTHER **

Lab pH	Air-Eq pH	Field pH	SiO2 (mg/L)	D.O. (mg/L)
7.45	7.55	6.69	1.3	

ANC
(ueq/l)
498.7

DIC
(mg/l-C)
6.66

DOC
(mg/l-C)
4.9

Specific
Conductance
(umhos x cm-1)
138.3

True Color
Lab
(Pt-Co)
15

Apparent
Color
Field
(Pt-Co)
25

Visual
Color

Secchi
Reading(m)

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* MANAGEMENT HISTORY *

* Stocking Data

Date	Species	Number Stocked	Total Weight Stocked (kg)
01/01/1976	SPLAKE	4000	79
01/01/1975	KOKANEE	20000	13
01/01/1975	RAINBOW TROUT	3340	253
01/01/1975	BROWN TROUT	3468	157
01/01/1975	BROOK TROUT	2000	76
01/01/1974	KOKANEE	17000	7
01/01/1974	RAINBOW TROUT	4000	246
01/01/1974	RAINBOW TROUT	1350	245
01/01/1974	BROWN TROUT	2872	246
01/01/1974	BROWN TROUT	1046	99
01/01/1974	BROOK TROUT	186	13
01/01/1974	BROOK TROUT	1200	237
01/01/1974	BROOK TROUT	5779	74
01/01/1974	SPLAKE	4000	45
01/01/1973	KOKANEE	20000	4
01/01/1973	RAINBOW TROUT	2684	288
01/01/1973	BROWN TROUT	3132	128
01/01/1973	BROWN TROUT	1271	65
01/01/1973	BROOK TROUT	3000	272
01/01/1973	BROOK TROUT	79	71
01/01/1972	KOKANEE	17100	3
01/01/1972	RAINBOW TROUT	4000	670
01/01/1972	BROWN TROUT	3280	256
01/01/1972	BROWN TROUT	3000	378
01/01/1972	BROWN TROUT	1958	247
01/01/1972	BROOK TROUT	3500	547
01/01/1972	SPLAKE	1786	21
01/01/1972	SPLAKE	4000	48
01/01/1971	KOKANEE	5000	2
01/01/1971	RAINBOW TROUT	2600	118
01/01/1971	RAINBOW TROUT	4000	454
01/01/1971	BROOK TROUT	980	99
01/01/1971	BROOK TROUT	11	10
01/01/1971	BROOK TROUT	1600	1455
01/01/1970	KOKANEE	5000	1
01/01/1970	RAINBOW TROUT	3000	200
01/01/1970	RAINBOW TROUT	2000	30
01/01/1970	RAINBOW TROUT	74	104
01/01/1970	RAINBOW TROUT	2500	38
01/01/1970	BROOK TROUT	4000	26
01/01/1970	BROOK TROUT	4000	93
01/01/1970	SPLAKE	1000	48
01/01/1970	SPLAKE	4110	37
01/01/1970	SPLAKE	140	19
01/01/1969	KOKANEE	5000	1
01/01/1969	RAINBOW TROUT	2840	293

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* MANAGEMENT HISTORY *

* Stocking Data

Date	Species	Number Stocked	Total Weight Stocked (kg)
09/28/1984	SPLAKE	4000	36
05/31/1984	BROWN TROUT	826	116
05/25/1984	SPLAKE	2300	209
05/17/1984	RAINBOW TROUT	2638	665
04/27/1984	KOKANEE	20000	5
04/19/1984	BROWN TROUT	2598	368
10/17/1983	SPLAKE	5000	131
05/24/1983	RAINBOW TROUT	2594	415
05/03/1983	KOKANEE	24000	7
04/19/1983	RAINBOW TROUT	4473	778
01/01/1983	BROWN TROUT	4473	778
01/01/1982	KOKANEE	15444	3
01/01/1982	RAINBOW TROUT	2754	215
01/01/1982	BROWN TROUT	3193	108
01/01/1982	SPLAKE	3600	68
01/01/1982	SPLAKE	5000	29
01/01/1981	KOKANEE	42741	12
01/01/1981	RAINBOW TROUT	3029	237
01/01/1981	BROWN TROUT	2732	112
01/01/1981	SPLAKE	3600	34
01/01/1980	KOKANEE	11000	6
01/01/1980	RAINBOW TROUT	2917	181
01/01/1980	RAINBOW TROUT	2500	189
01/01/1980	RAINBOW TROUT	4000	140
01/01/1980	BROWN TROUT	2751	125
01/01/1980	BROOK TROUT	383	124
01/01/1980	SPLAKE	2300	38
01/01/1979	KOKANEE	10000	5
01/01/1979	RAINBOW TROUT	3112	470
01/01/1979	BROWN TROUT	2244	83
01/01/1979	BROOK TROUT	300	340
01/01/1979	SPLAKE	3900	28
01/01/1978	KOKANEE	18000	4
01/01/1978	RAINBOW TROUT	3028	203
01/01/1978	BROWN TROUT	3228	169
01/01/1978	BROOK TROUT	250	454
01/01/1978	SPLAKE	4000	48
01/01/1977	KOKANEE	20000	12
01/01/1977	RAINBOW TROUT	3800	627
01/01/1977	BROWN TROUT	3400	237
01/01/1977	SPLAKE	4000	68
01/01/1976	KOKANEE	23640	11
01/01/1976	RAINBOW TROUT	3740	738
01/01/1976	BROWN TROUT	3368	306
01/01/1976	BROOK TROUT	408	123
01/01/1976	BROOK TROUT	1800	163

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* MANAGEMENT HISTORY *

* Stocking Data

Date	Species	Number Stocked	Total Weight Stocked (kg)
01/01/1969	RAINBOW TROUT	4000	79
01/01/1969	BROOK TROUT	3630	503
01/01/1969	BROOK TROUT	40	29
01/01/1969	BROOK TROUT	4000	91
01/01/1969	BROOK TROUT	4000	12
01/01/1968	KOKANEE	20450	7
01/01/1968	RAINBOW TROUT	5760	124
01/01/1968	RAINBOW TROUT	700	289
01/01/1968	RAINBOW TROUT	8125	606
01/01/1968	BROOK TROUT	3930	295
01/01/1968	BROOK TROUT	4075	93
01/01/1968	BROOK TROUT	4000	81
01/01/1968	BROOK TROUT	4000	24
01/01/1968	BROOK TROUT	500	211
01/01/1967	BROOK TROUT	3600	86
01/01/1967	BROOK TROUT	10000	251
01/01/1966	RAINBOW TROUT	2740	172
01/01/1966	RAINBOW TROUT	500	156
01/01/1965	RAINBOW TROUT	1730	149
01/01/1965	SPLAKE	3000	45
01/01/1964	RAINBOW TROUT	3260	195
01/01/1964	SPLAKE	3200	44
01/01/1963	RAINBOW TROUT	3260	73
01/01/1963	RAINBOW TROUT	6200	303
01/01/1962	RAINBOW TROUT	2600	42
01/01/1962	RAINBOW TROUT	3000	136
01/01/1961	RAINBOW TROUT	3690	305
01/01/1960	RAINBOW TROUT	3260	211
01/01/1958	RAINBOW TROUT	2600	132
01/01/1958	RAINBOW TROUT	2100	80
01/01/1957	RAINBOW TROUT	2600	101
01/01/1957	RAINBOW TROUT	660	43
01/01/1957	RAINBOW TROUT	1383	62
01/01/1956	RAINBOW TROUT	2600	91
01/01/1956	RAINBOW TROUT	15000	113
01/01/1956	RAINBOW TROUT	7200	27
01/01/1955	RAINBOW TROUT	1630	55
01/01/1954	RAINBOW TROUT	2900	111
01/01/1950	LAKE TROUT	3800	5
01/01/1949	LAKE TROUT	5100	6
01/01/1948	LAKE TROUT	4200	4
01/01/1947	LAKE TROUT	2600	3
01/01/1946	LAKE TROUT	2800	5
01/01/1945	LAKE TROUT	3000	5
01/01/1944	LAKE TROUT	2700	3
01/01/1943	LAKE TROUT	2000	1

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* MANAGEMENT HISTORY *

* Stocking Data

Date	Species	Number Stocked	Total Weight Stocked (kg)
01/01/1942	LAKE TROUT	2100	2
01/01/1940	LAKE TROUT	5000	
01/01/1938	LAKE TROUT	4000	
01/01/1937	LAKE TROUT	5000	
01/01/1936	LAKE TROUT	3000	
01/01/1936	LAKE TROUT	3000	
01/01/1936	LAKE TROUT	3000	
01/01/1935	LAKE TROUT	4500	
01/01/1934	LAKE TROUT	10000	
01/01/1933	LAKE TROUT	6000	
01/01/1929	LAKE WHITEFISH	250000	
01/01/1899	LAKE TROUT	20000	
03/31/1898	BROOK TROUT	10000	
03/30/1898		200000	
03/14/1898	LAKE TROUT	2500	
05/12/1897	BROOK TROUT	5000	
02/23/1893	BROOK TROUT	15000	
05/09/1892	LAKE TROUT	25000	
05/05/1892	BROOK TROUT	25000	
01/01/1889	BROOK TROUT		
01/01/1889	LAKE TROUT		
01/01/1888	SALMON-TROUT		
01/01/1887	BROOK TROUT		

* Reclamation

Date	Material	Method	Type
09/01/1967	ROTENONE		COMPLETE

Reclamation and Liming Remarks

Date: 03/09/1985
ROTENONE APPLICATION WITH HELICOPTER, BOAT AND BACKPACK
UNITS IN 1967.