McKirdy-Summer 1960

Tnt

ALASKA DEPARTMENT OF FISH AND GAME

Sport Fish Division (Topo Map Nabesna D-2)

Lake Survey Form

Lake DEADMAN LAKE Sec. ____, Twp. ____, Rge. ____, Lat 62° 50' N., Long 141° 32' W.

Acreage 340 Max. Depth 30 ft. (1960) Altitude 1730

Location 1251 Alaska Highway Water Color (clear, silty) Clear

Type of Bottom Silty - Hardpan

Inlets (name, size, permanency) 1 small inlet to North, originates from small lake.

Benchmark (Description)

Outlet (size, immediate and main drainage) 1 outlet to the South, flows into Tanana, marsh land.

Barriers

Use (Private, public, semiprivate) Public

Public Access Site Good dirt road

Facilities (Campground, roadhouse, etc.) Public campground

Native Fish Species Northern Pike

Introduced Species Rainbow - Steelhead

Spawning Grounds Good for Northern in outlet area, very little if any gravel.

Fishing History Very little local fishing, however, it is the first accessible lake to tourist as they enter Alaska.

Other Uses Camping facilities used primarily by tourists.

Fish Losses

Character and size of watershed Consists mostly of marshland.

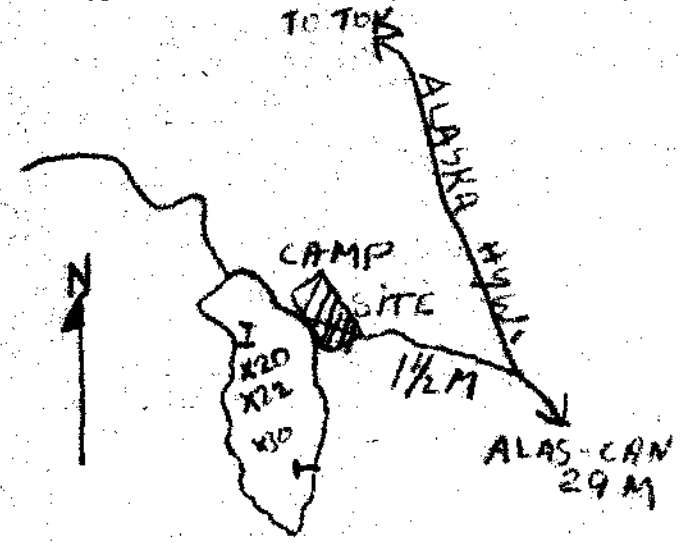
Remarks Reclaimed by use of rotenone in 1954, stocked with Rainbow and Steelhead in the fall of 1954, opened to fishing in July of 1956, with some nice trout being taken in late fall. Poor fishing in 1957 and no trout reportedly taken since 1958. Test netting operations in 1958-59 and 60 produced only Northern Pike.

D.O. & P.H. Determinations in Lake Survey File.

(over)

Description of accessibility (how reached) A good dirt road leads from the Alaska Highway at mile 1251 to the campground at the lake.

Sketch: showing outline of lake, depth, prominent landmarks, inlets, outlet, weedbeds, public service site location, benchmark location, etc.



Alaska Department of Fish and Game
FISH STOCKING

Lake DEADMAN ; Location Northway

DATE	SPECIES	SIZE	NUMBER	SURFACE TEMP.	SOURCE OF FISH HATCHERY-STOCK
7/31/54	RB	1462#	11,696		Fbx. H.
7/31/54	RB	2164#	4,178		Fbx. H.
8/6/54	RB	1740#	17,300		Fbx. H.
8/10/54	RB	1556#	6,613		Fbx. H.
8/10/54	SH	1836#	10,816		Fbx. H.
8/15/54	SH	1844#	18,390		Fbx. H.
8/19/54	SH	1664#	17,000		Fbx. H.
9/7/54	SH	1000#	13,000		Fbx. H.
6/29/55	RB	3000#	135,471		Fbx. H.
7/3 8/24/56	RB ST	630- 2490#	124,000		Fbx. H.
9/7/57	RB	355#	25,000		Fire Lk. H.
9/9/57	RB	355#	19,000		Fire L. H.
6/20/58	RB	1800#	27,000		Fbx. H.
8/22/60	RB	175#	7,000		Birch L. H.
6/20/64	RB	1800#	27,000		Fire Lk. H.
~~6/10/69~~	GR	120,00			
6/10/69	GR	FRY	120,000	70°	Fire Lk. Hatch.

(over for remarks)

ALASKA DEPARTMENT OF FISH AND GAME
DIVISION OF SPORT FISH
LAKE SURVEY SUMMARY

LAKE Deadman Lake

MAP REF. Nabesna D-2 T. 13N R. 20E S. 23-26 LAT. 62°52'N LONG. 141°32'W

LOC. 1249.5 Alaska Hwy., S. of Northway SURF. ELEV. 1732

1. SURF. ACRES 341 MAX. DEPTH 32 ft. AVG. DEPTH 12 ft. ACRE FT. 4,834
SHOAL AREA 50% WATER COLOR SECCHI READING
AQUATIC VEGETATION water lilies

2. FISH SPECIES: NATIVE NP, B INTRODUCED RT, steelhead and GR

3. FISHING HISTORY large RT and small NP, little local fishing - primarily a tourist stop, first accessible lake on hwy. in state.

4. INVERTEBRATES unknown

5. INLETS one small inlet from small lake to N. DISCHARGE cfs
DISCHARGE cfs
DISCHARGE cfs
BARRIERS none

6. OUTLETS one outlet to S. flows into Chisana DISCHARGE intermittent cfs
DISCHARGE cfs
BARRIERS intermittent

7. SPAWNING AREAS marsh land and streams suitable

8. WATERSHED TYPE lowland, spruce - marsh DRAINAGE AREA ACRES

9. ACCESSIBILITY unimproved road 1-5 mi. W. of hwy.

10. ACCESS STATUS public

11. USE SITE present FACILITIES campground on E. shore

12. OTHER USE used primarily by tourists

13. POLLUTION none

14. REMARKS Rehab. in 1954 and stocked with RT and SH in fall of 1954, opened to fishing in July of 1956, with some nice trout taken in late fall. Poor fishing in 1957 and no trout taken in 1958. Test netting in '58-'60 revealed only NP restocked in 1960 with RT, NP continued to dominate fishery. Experimentally stocked with 253,000 grayling fry 10 & 13 June '69.

BY McKirdy - Roguski DATE 1960 - 1969

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
CENTRAL LABORATORY, SALT LAKE CITY, UTAH

WATER QUALITY ANALYSIS
LAB ID # 192028 RECORD # 27516

PROVISIONAL RECORDS
SUBJECT TO REVISION

SAMPLE LOCATION: DEADMAN LK NR TETLIN JCT
STATION ID: 625300141325000 LAT.LONG.SEQ.: 625300 1413250 00
DATE OF COLLECTION: BEGIN--759999 END-- TIME--
COUNTY CODE: 090 PROJECT IDENTIFICATION: 78
DATA TYPE: 2 SOURCE: SURFACE WATER GEOLOGIC UNIT:
COMMENTS:
TOC SAMPLES LOST NO DATE BOTTLES F 17

ALK,TOT (AS CACO3)	MG/L	50	NITROGEN TOT ORG N	MG/L	1.2
ALUMINUM TOTAL	UG/L	40	NITROGEN TOTKJD AS N	MG/L	1.3
BICARBONATE	MG/L	61	NO2 + NO3 AS N TOT	MG/L	0.05
BORON TOTAL	UG/L	50	NO2+NO3 AS N DISS	MG/L	0.
CALCIUM DISS	MG/L	13	PHOS ORTHO DIS AS P	MG/L	0.
CARBON TOT ORGANIC	DETR.	DELETED	PHOSPHATE DIS ORTHO	MG/L	0.15
CHLORIDE DISS	MG/L	1.0	PHOSPHORUS TOT AS P	MG/L	0.04
COBALT TOTAL	UG/L <	50	POTASSIUM DISS	MG/L	0.7
COLOR		20	RESIDUE DIS CALC SUM	MG/L	68
COPPER TOTAL	UG/L	30	RESIDUE-DIS,TON/AFT		0.14
FLUORIDE DISS	MG/L	0.3	RESIDUE-DIS TON/DAY		2810
HARDNESS NONCARB	MG/L	8	RESIDUE DIS 180C	MG/L	104
HARDNESS TOTAL	MG/L	58	SAR		0.1
IRON DISSOLVED	UG/L	20	SILICA DISSOLVED	MG/L	13
MAGNESIUM DISS	MG/L	6.1	SODIUM DISS	MG/L	1.9
MANGANESE DISSOLVED	UG/L	10	SODIUM PERCENT		7
MOLYBDENUM TOTAL	UG/L	0	SP. CONDUCTANCE LAB		100
NITROGEN NH4 ASN TOT	MG/L	0.13	STREAMFLOW(CFS)-INST		9999
NITROGEN TOT AS N	MG/L	1.4	SULFATE DISS	MG/L	1.3
NITROGEN TOT AS NO3	MG/L	6.0	WATER TEMP (DEG C)		14.
			ZINC TOTAL	UG/L	10

CATIONS	(MG/L)	(MEQ/L)	ANIONS	(MG/L)	(MEQ/L)
CALCIUM DISS	13	0.649	BICARBONATE	61	1.000
MAGNESIUM DISS	6.1	0.502	CHLORIDE DISS	1.0	0.029
POTASSIUM DISS	0.7	0.018	FLUORIDE DISS	0.3	0.016
SODIUM DISS	1.9	0.083	SULFATE DISS	1.3	0.028
			NO2+NO3 AS N D	0.04	0.003
TOTAL		1.251	TOTAL		1.074

PERCENT DIFFERENCE = 7.63

ALASKA DEPARTMENT OF FISH AND GAME

DIVISION OF SPORT FISH

WATER Deadman Lake

WATER ANALYSIS

LOCATION

DATE	STATION	TIME	SNOW COVER	ICE COVER	SAMPLE DEPTH	TEMPERATURE WATER	TEMPERATURE AIR	DO ppm	CO_2	pH	TOTAL ALKALI	T. H.	REMARKS	BY
3/16/71		3:30 PM	12"	26"	6'		30°	2.8		7.5	119			
3/20/73	clear	noon	13"	24"	5' (in 29') (SOUTH SIDE)		15°	3.8		7.0	85.5	119.7		
					10'			3.6	10.0					
					15'		~~45°~~	1.2	10.0					

DEFINE LOCATION OF STATIONS ON REVERSE

2/69
FG-208

Peckham

IN REPLY REFER TO:

United States Department of the Interior 6763.2 (210)

BUREAU OF LAND MANAGEMENT
Fairbanks District Office
P. O. Box 1150
Fairbanks, Alaska 99707

May 17, 1973

Mr. Don Bill
Access Biologist
Alaska Dept. of Fish and Game
1300 College Road
Fairbanks, Alaska 99701

Dear Mr. Bill:

We have no objection to installation of a gabion weir at Dead Man Lake for fisheries rehabilitation pruposes. The site has been state selected and within an ANCSA village withdrawal (Northway) location, so the Bureau of Land Management no longer has major management responsibilities of the area. You may wish to contact the village and obtain their views.

Sincerely yours,

Donald R. Yarmi

Acting District Manager

Deadman L.

D-2

Vol. 3

Page 248

DEADMAN LAKE, ALASKA

LOCATION: 271 miles SE of Frbks. on Alaska Hyw. (Lat. 62°50' N, Long. 141°32' W)

SIZE: 341 S/A, depth: max. 32ft.
min. 12ft.

HISTORY:

The records indicate that the first fisheries work done on this lake was the oxygen tests during the winter of 1953-54.

The lake was treated with rotenone on June 26 & 27, 1954. A stunted population of Northern pike existed. By July 25th. the toxidity had diseipated and stockings of Rainbow & Steelhead fry was begun.

A public camp site has been erected along the shore of this lake, it is a very nice stopping off point for the traveling puplic.and the first one as you enter Alaska from the Yukon Territory. Because of the shallow shore line this lake becomes abundant with water lillies, this makes fishing extremely difficult without a boat. The surface temperature has reached a high of 79 degrees F. along with a heavy algae bloom.

The lake was closed to fishing after rehabilitation (June 1954) to July 4, 1956. Opening day was very poor, however as the lake cooled during the later part of the summer the fishing improved. The trout this first season ran to 19½ inches in length. All in all the sport fishing was considered poor.In 1957 a Trout was reported taken that measured 25¼ inches and weighed 7 lbs.
PROBLEM:

During test-netting operations on this lake in 1958, a total of 40 Northern pike were taken. Again in July of 1959 the gill-netting produced 16 Northern pike, these ran from 12 to 19 inches in length. No trout were taken from this test-netting. From the time of eradication to date a total of 430,000 Rainbow-Steelhead were stocked. The size range of stocked fish ran from 3,000/lb. to 355/lb.

1- Determine age of present Northern pike.
2- Determine source of pike population after eradication.
3- Control weeds .
4- Stock larger fingerlings (200/lb. or better)
5- Determine value as a sport fisheries &
6- Species to be stocked?

STOCKING:

1954 (after rehabilitation)	RB & SH	- 99,000
1955	RB	- 135,000
1956	RB & SH	- 125,000
1957	RB	- 44,000
1958	RB	- 27,000

TEST NETTING

Water: _____ Gear Used: 2 - 125' gillnets

Location: _____ Temperature: Air _____ Water _____

Dates: 7/ _____ Weather: _____

Total Hours Fished: _____ Depth of Set: _____ to _____

44 total net hours

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

NP

358.4 mm.

11 | 3943

33

64

55

93

88

50

44

6

DEADMAN LAKE

Surface Area:	341 acres
Maximum Depth:	32 feet
Volume:	4,834 acre feet

ROTENONE COSTS:

Powdered Root

Dosage of 1 P.P.M. - need	13,150 lbs. 5% root or 263 50 lb. sacks
Cost based on $.25/lb.	$3,287.50
and additional 3 drums Pronoxfish for shoreline, inlet lake and outlet etc.	570.00
TOTAL	$3,857.50

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ALASKA DEPARTMENT OF FISH AND GAME

DIVISION OF SPORT FISH

WATER Dranman

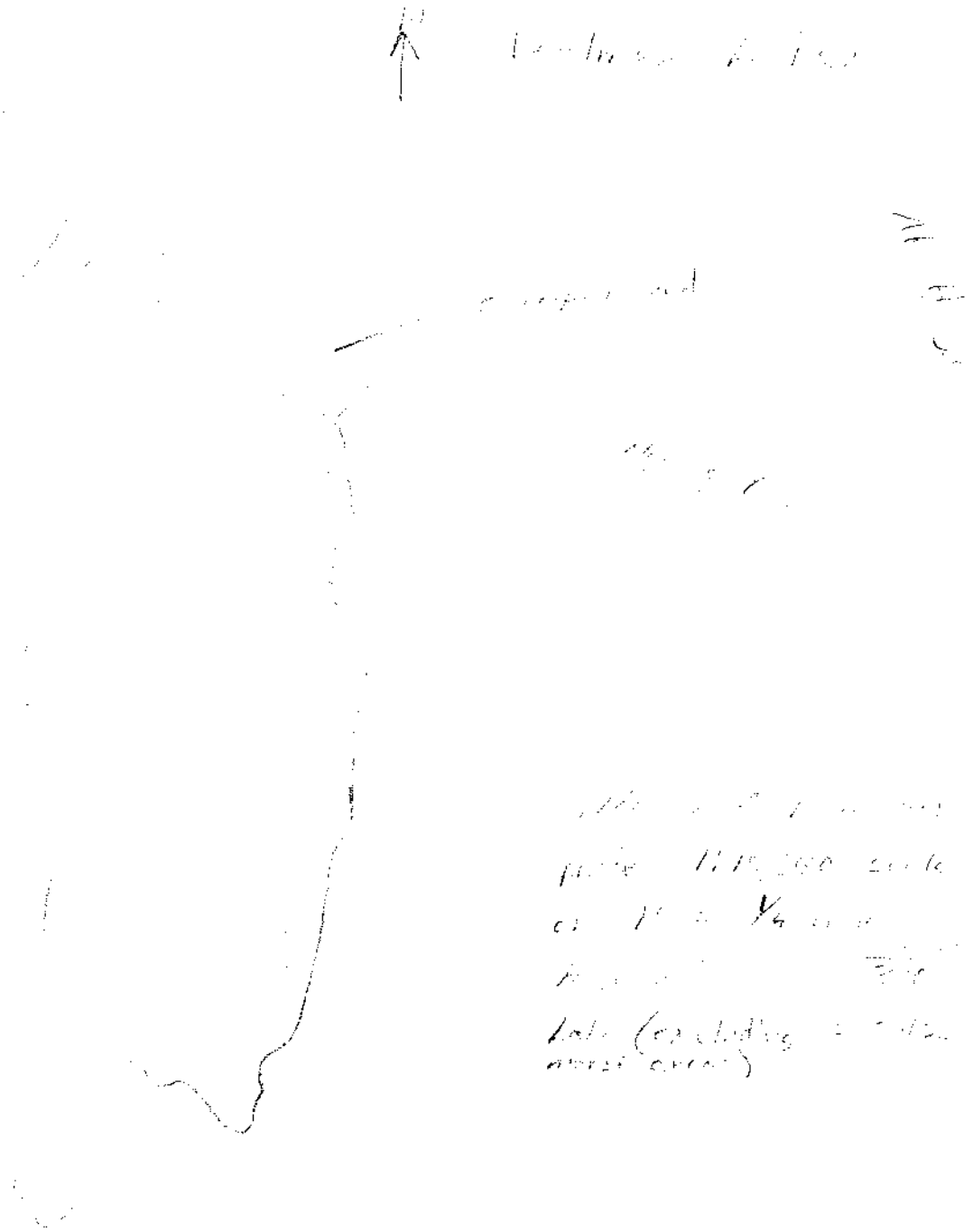
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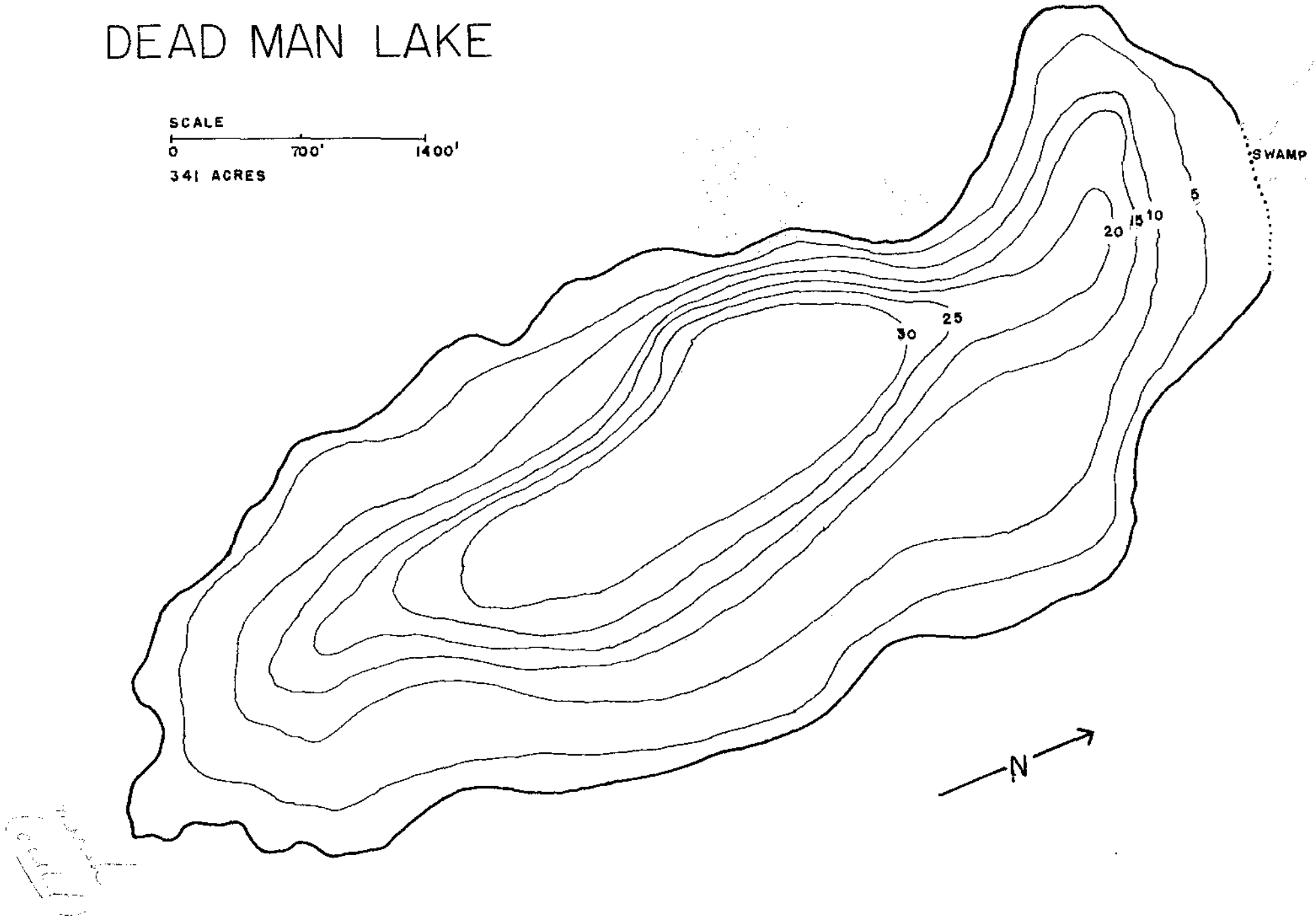
DATE	STATION	TIME	SNOW COVER	ICE COVER	SAMPLE DEPTH	TEMPERATURE WATER	TEMPERATURE AIR	DO	CO_2	pH	TOTAL ALKALI	T.H.	REMARKS	BY
4/14/72			100%	28"	5 in 6'			1.8		7.6	1710	185.1		
					DURANCE in 6'			2.2						
					SURFACE in 1'			3.0					FROM Big Dranman	
8/2/72					5								OUTLET DIRECTLY FLOWING, WATER	
—													LEVEL 3" BELOW 5 31-72	

DEFINE LOCATION OF STATIONS ON REVERSE

2/69
FG-208



DEAD MAN LAKE



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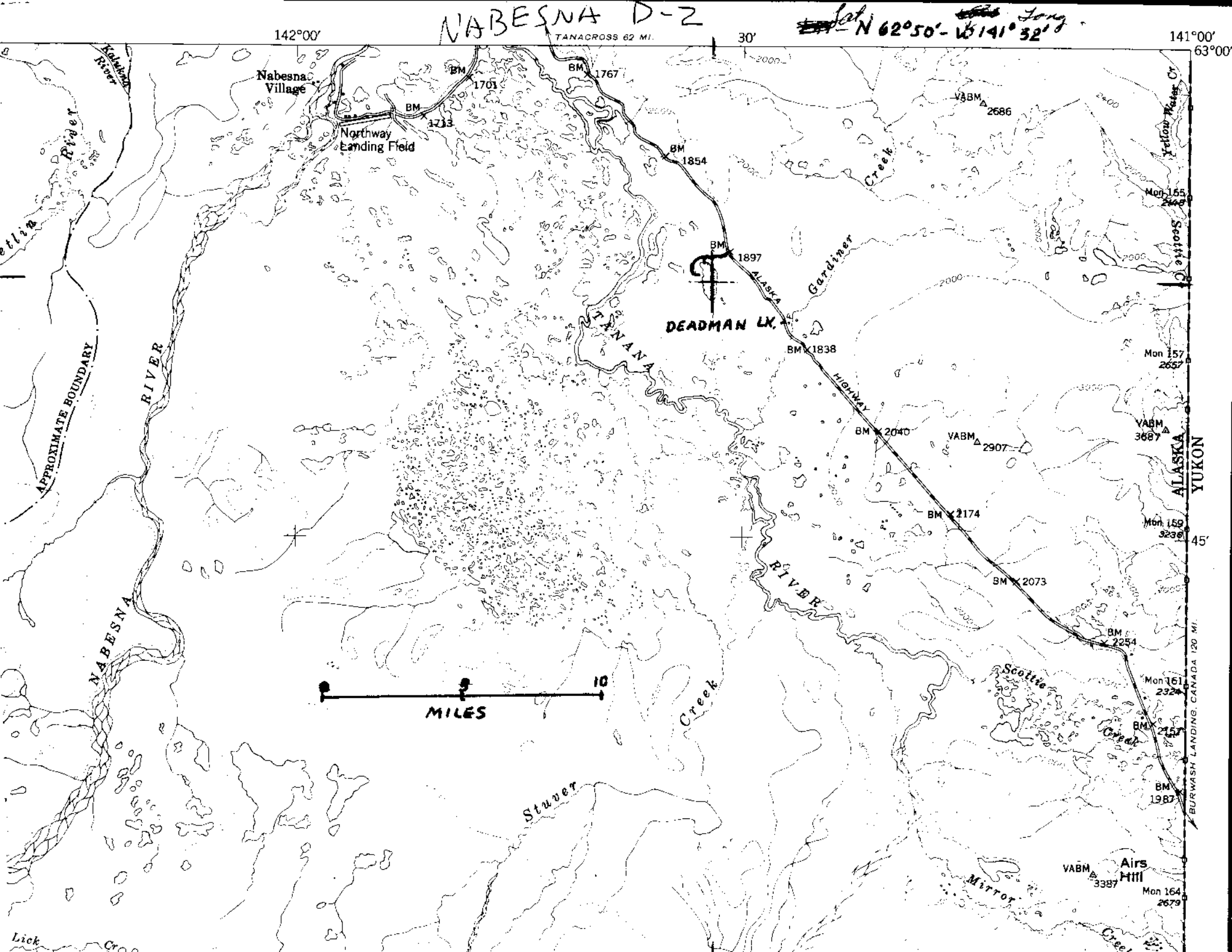
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NABESNA D-2
lat N 62°50' long W 141°32'
142°00'
141°00'
63°00'
30'
45'
TANACROSS 62 MI.
BURWASH LANDING, CANADA 120 MI.
Nabesna Village
Northway Landing Field
Kalukna River
Nabesna River
APPROXIMATE BOUNDARY
TANANA RIVER
NABESNA RIVER
DEADMAN LK.
ALASKA HIGHWAY
Gardiner Creek
Scottie Creek
Yellow Water Cr
Stuver Creek
Mirror Creek
Lick Cr
Airs Hill
ALASKA
YUKON
BM 1701
BM 1713
BM 1767
BM 1854
BM 1897
BM 1838
BM 2040
BM 2174
BM 2073
BM 2254
BM 2157
BM 1987
VABM 2686
VABM 2907
VABM 3687
VABM 3387
Mon 165 2468
Mon 157 2657
Mon 159 3238
Mon 161 2324
Mon 164 2679
0 5 10
MILES

RECORD OF LAKE REHABILITATION

I. Lake Background
   A. Lake name DEADMAN Location 27 miles SE FB&S
   B. Surface acreage 341
   C. Volume (acre feet) 4,834
   D. Inlets (number, size, and description) One inlet flow from seepage areas.
   E. Outlets (number, size, and description) One - intermittent.
   F. Estimated time in days to effect a complete water change.
   G. Description of shoreline, swamps, bogs, shallow areas, underwater springs, submerged or emergent vegetation, or any other feature which might interfere with the application or distribution of toxicant. Stone line bog. No abundant lilies (Nuphar)

II. Pretreatment Data
   A. Volumetric map showing depth contours, number of depth readings (if applicable), and description of method used to determine volume. Lake divided into sections. each volume of each section determined separately.
   B. Trash species to be removed. NORTHERN PIKE

III. Treatment Data
   A. Date June 24 & 27 1954
   B. Toxicant used
      1. Total gallons of liquid used
      2. Concentration of liquid (percent)
      3. Total pounds of powder used 71 sacks (50 lb?)
      4. Concentration of powder (percent) 11.3%
   C. Level of concentration in lake (ppm)
   D. Method of application
   E. Temperature profile (graph on reverse side)
   F. Water chemistry: pH _____. Methyl orange alkalinity _____. Total alkalinity _____. Total dissolved solids _____

IV. Post Treatment Data

A. Duration of toxicity or date lake is determined to be non-toxic

B. Method of determination

C. Success of kill

D. Method of determination

E. Comments

DEADMAN LAKE

Surface Area:	341 acres
Maximum Depth:	32 feet
Volume:	4,834 acre feet

ROTENONE COSTS:

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Dosage of 1 P.P.M. - need	13,150 lbs. 5% root or 263 50 lb. sacks
Cost based on $.25/lb.	$3,287.50
and additional 3 drums Pronoxfish for shoreline, inlet lake and outlet etc.	570.00
TOTAL	$3,857.50

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Dosage of 1.5 P.P.M. - need	19,700 lbs. 5% root or 394 50 lb. sacks
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Cost of Liquid Rotenone (Pronoxfish)

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1,750 ga. @ $3.80/gal.	$6,650.00
and additional 100 ga. for inlet lake, etc.	380.00
TOTAL	$7,030.00

TEST-NETTING SUMMARIES FG-53

1960

Water: DEADMAN LAKE
Location: Alaska Hyw. (Northway Area)
Dates: August 23 to 26
Total Hours Fished: 160

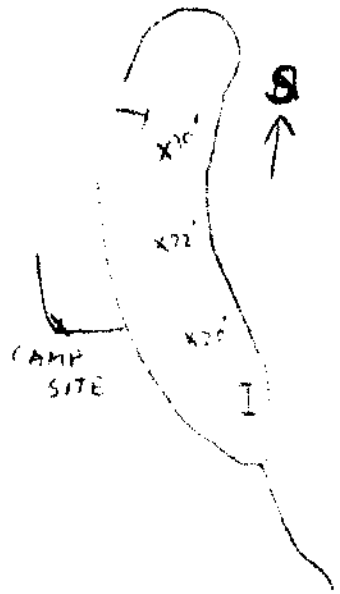
Gear Used: 2 Gill-nets

Temperature, Air:
Water: 65
Weather: Cool & Cloudy

No.	Species	Length Range-Ave.		Weight Range-Ave.		Total Weight	Freq.	c/o Comp.
36	Northern Pike	9 to 19"	17⅞"	4 oz. - 2#	1¼#	45	0.22	100

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

Scale samples taken
Sounded lake: max. depth 30 ft.



Submitted by: McKirdy

Alaska Departm Fish and Game

FISH STOCKING

Lake BEARCAT LAKE ; Location

DATE	SPECIES	SIZE	NUMBER	SURFACE TEMP.	SOURCE OF FISH HATCHERY—STOCK
7/31/54	R.TR.	1700/#	9,900		Birch Lake
9/7/54	ST.TR.	1700/#			Birch Lake
6/29/55	R.TR.	3000/#	135,000		Birch Lake
7/3/56	R.TR.	630/#	125,000		Birch Lake
8/24/56	ST.TR.	2490/#			Birch Lake
9/7-9/57	R.TR.	355/#	44,000		Fire Lake
6/20/58	R.TR.	1785/#	27,000		Birch Lake
8/22/60	R.TR.	175/#	7,000		Birch Lake
7/31/54	RB	1462	11,696		FBH #.
7/31/54	RB	2164	4 178		"
8/6/54	RB	1740	17,300		"
8/10/54	RB	1556	6,613		"
8/10/54	SH	1836	10,86		"
8/15/54	SH	1844	18,390		"
8/19/54	SH	1664	17,000		"
9/7/54	SH	1000	13,000		"
6-10-69	Hay	Fry	130,000		Fire Lake
6-13-69	Hay	Fry	133,000		✓

(over for remarks)

[illegible] set 2 unit gear

Deadman Lake Sept. 19 1958

F.L.	Age	Card # 1
"17"	3?	1-2
17 3/8"	2+3	3-4
17"	2	5-6
17 1/2"	2	7-8
18"	2	9-10
18 4/8	2	11-12
16 4/8	2	13-14
17 5/8	2	15-16
16	2	17-18
18	2	19-20
16	2	101-102
16 3/8	2	103-104
17 3/8	2	105-106
17 1/8	2	107-108
16	2	109-110
17 5/8	2	110-112
16	2	113-114
17	2	115-116
17 3/8	2	117-118
17	2	119-120
		Card 2
17 1/2	2	1-2
16 7/8	2	3-4