ALASKA DEPARTMENT OF FISH AND GAME
DIVISION OF SPORT FISH

SUPPLEMENTAL DATA

LOCATION OF VARIOUS FIELD ACTIVITIES CONDUCTED AT JORDAN LAKE 14 July – 18 July 1975

NAME JORDAN LAKE

LOCATION NAHA RIVER REVILLAGIGEDO ISLAND

No gill nets were set owing to numerous salmon in Lake. Rod & reel sampling was adequate for obtaining fish samples.

FISH PROCESSED:
- 78 RAINBOW.
- 3 Dolly VARDEN
- 2 Cutthroat.

see report for data.

we picked aquatic invents from stream, also took surber sample near mouth of this stream.

numerous deer tracks along stream

this tributary originates from Emma Lake, approx. 1 mile north of Jordan Lake

minnow trap survey of this stream, lower portion looked like a good spawning stream. we set 8 egg baited minnow traps - perhaps going ½ mile upstream. we captured coho salmon in one most upstream traps: Fish caught in 8 traps: 31 RAINBOW, 30 COHO, 3 CUTTHROAT; 2 Dolly Varden; 2 sculpin (species ?).

many fallen trees; Log jam prevents easy access to this cove by boat

1X

several minnow traps set – 3 traps – 1 STICKLEBACK.

⊙ minnow trap survey of outlet mostly coho & stickleback see report

water chemistry station: D.O, pH etc.
surface D.O. = 10.5, pH = 8.0
BOTTOM (54 m) DO = 8.0, pH = 6.6
alkalinity surface = 5.0 mg/L
" Bottom = 6.0 mg/L

the outlet falls area is very beautiful

2X

125' DEEP

Emergence Trap

(STEP) gradual (but swift cascading water, total drop perhaps 5½ to 6'. Fallen trees present.

3X

2 DRIFTS SET IN INLET, ONE SURBER SAMPLE TAKEN

NAHA RIVER INLET (FROM HECKMAN LAKE 1¾ miles upSTREAM)

This channel leading to outlet falls is easily navigable by skiff

we found numerous clam shells in inlet vicinity, relatively large (~ 4-5 cm long) and long shaped clams.
perhaps fresh water mussels

1x, 2x, 3x = 3 hauls with EKMAN 6" DREDGE.

RESULTS:

Haul #1 – 11 meters	Brown ooze, silt, conifer needles, other organic matter	– 7 chironomids, 1 oligochaete
Haul #2 – 32 meters	Rich Brown ooze, conifer needles, plant matter	– 26 chironomids, 7 oligochaetes, 7 clams
Haul #3 – 1½ meters	sparce silt, sand, aquatic vegetation	– 15 sphaeriid clams, 1 oligochaete, 3 Caddis cases, several unknowns

BY: Mark Schwan, Andy Smoker

DATE 21 July 1975

2.69

ALASKA DEPARTMENT OF FISH AND GAME
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SUPPLEMENTAL DATA

NAME JORDAN LAKE

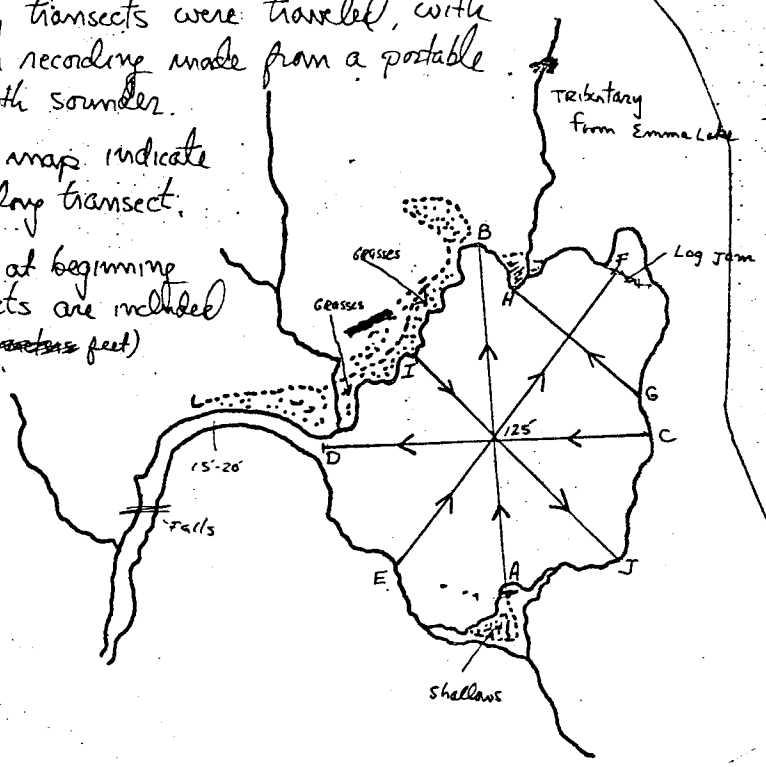
LOCATION NAHA RIVER REVILLAGIGEDO IS.

15 JULY 1975 - BATHYMETRIC SURVEY

Five sounding transects were traveled, with a continuous bottom recording made from a portable 725-B Rathyeon depth sounder.

arrows on transect map indicate direction traveled along transect.

distances from shore at beginning and ending of transects are included at right (estimated in ~~meters~~ feet)



Transect end points; distances from shore

A = 65 feet	B = 48 feet
C = 10 feet	D = 80 feet
E = 13 feet	F = 10 feet off head of cove - port side of boat
G = 17 feet	H = 7 feet off point, starboard side of boat
I = 10 feet	J = 20 feet

A detailed description of the lake's morphometry can only be accomplished through analysis of the chart recordings. At this time, we can say the following: The maximum depth of Jordan Lake is found near the lake center, and is approximately 125 feet in depth. There is not extensive littoral area around the north, east, and south shores, although shallows are more prevalent in the outlet vicinity and north western shore. The majority of the lake bottom is smooth, however, the north eastern quarter of the lake does show considerable variability in depth, and is rough bottomed. The outlet channel was not sounded, but up until the outlet falls, the channel is easy traveled in a skiff & our minnow trapping indicated depths of perhaps 15 or 20 feet in some parts.

BY Mark Schwan
Andy Smoker

DATE 21 July 1975

ALASKA DEPARTMENT OF FISH AND GAME
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SUPPLEMENTAL DATA

NAME Jordan Lake

LOCATION Naha Drainage Revillagagedo Island

July 15, 1975

Minnow Trap Survey A. - NOR'EAST cove in lake large # snags - still deep water.

	Time set	Time pulled	Total Time	Location	Fish captured.	
#1	12:15 hrs	1300	45 min	In lake - N E cove many fallen logs	10' deep	#1 - one stickle back
#2	12:20 hrs	1302	~~38~~ 42 min	"	5' deep	#2 no fish
#3	12:25 hrs	1307	42 min	"	15' deep	#3 no fish.

Minnow Trap Survey B. - Outlet of Jordan Lake

	Time set	Pulled	Total	Location	Fish captured.
#1	15:15	1630	1 hr. 15 min	At beginning of outlet 1.5 m - H_2O. Bottom - organic debris. silt live aquatic plants - slow moving water.	Six Coho ~~fry~~ four stickleback
#2	15:18	1633	1 hr. 15 min	off snags, next to submerged logs 0.5 m deep slow current, ooze bottom.	- five coho - four stickleback
#3	1526	1635	1 hr 14 min	mid-channel 20' deep muddy bottom slow water	- one stickle back
#4	1530	1638	1 hr 8 min	slow water muddy Bottom 8' deep -	2 stickle back one cutthroat: 92 mm
#5	1533	1644	1 hr 11 min	slow water - ~8' deep silty mud bottom.	10 coho - 69, 73, 8; 63, 76 66 51, 66, 66, 61. Ø fish captured - #5

TRAPS #6, 7, 8 were set in pools in among the outlet falls, lengths of sets were short - all set at about 1700 hrs & left for ~½ hour to ¾ hour. No fish were captured in these traps.

BY Mark Schwan
Andrew Smoker

DATE July 21, 1975

ALASKA DEPARTMENT OF FISH AND GAME
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SUPPLEMENTAL DATA

NAME Jordan Lake

LOCATION Naha Drainage Revillagigedo Island

	Time set	Pulled	Total	Location	Fish captured.
#6	1536	1650	1hr. 14min.	muddy slow water. 2m deep Spruce overhang.	one stickleback 9 coho (mm) - 78, 41, 102, 95, 73, 69, 93, 82, 81.
#7	1538	1654	1hr. 16min.	Outlet 60m Above falls slow water 2 meters deep. mud bottom.	4 stickleback 3 coho (mm) - 83, 63, 79.
#8	1540	1656	1hr. 16min	Deep hole above falls 3 1/2 m deep swift water aquatic vegitation	No fish.
#9	1550	1705	1hr 15min	1/2 m deep swift water. rocky, head of falls	no fish.
#10	1550	1705	1hr. 15 min	1 1/2 feet deep very swift. under log. gravel bottom 1/2 way down outlet	No fish.

Minnow Trap Survey - 17 July 1975 - Emma outlet, from Jordan Lake up the stream 3/4 mi.

	Time set	pulled	Total	Location	Fish captured.
#1	1310	1522	2hrs. 12min	up welling water mouth of stream gravel bottom	coho - 45mm RB - 83, 117, 115
#2	1317	1517	2hrs	gravel, sand bottom 2 m deep, moderate to slow velocity	coho - 45, 94, 89, 75, 94, 74, 76, 89, 56, 64 Rb - 76mm DJ - 106mm.
#3	1325	1512	1hr. 47min	mod swift. small pool dark-shadowed water 1/2 m deep. gravel sand bottom.	~~coho 45, 94, 89, 75, 94, 74, 76, 89~~ coho - 54, 82, 79, 84 Rb - 84, 83, 94

BY Mark Schwan
Andrew Smoker.

DATE July 21, 1975

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SUPPLEMENTAL DATA

NAME Jordan Lake
NAHA Drainage
LOCATION Revillagigedo Island

EMMA TRIBUTARY

MINNOW TRAP. SURVEY C [cont'd]

	Time set	Pulled	Total	Location	Fish captured
#4	1330	1507	1hr. 37min	- overhang veg. shadow water Sand-gravel bottom Depth. 1/2 m.	Rb - 114mm
#5	1335	1457	1 hr 22 min	- overhang logs - end of small riffle Sand-gravel & small amt organic debris. ~1m deep.	Coho. 82, 78, 70, 81, 80, 62, 75, 58 Rb - 91, 97, 80, 79, 118, 70, 85, 115 one sculpin -
#6	1346	1446	1hr.	water swift - large rocks - cobbles - below small falls - ~1 1/2 m deep	Coho - 59mm Cut - 85, 86 Rb - 85, 95, 148, 113, 102, 116, 109, 92 one sculpin
#7	1355	1442	47min	water - moderately swift overhang logs, bottom cobbles, gravel. ~1 m deep	Rb. 135, 102, 76
#8	1410	1430	20min	below small falls, under log upwelling water. ~1 meter deep gravel bottom. H_2O Temp → 15°C	Coho - 89, 57, 71, 83, 95, 60 Cut - 150 DV - 111 Rb - 82, 86, 75, 93.

BY Mark Schwan
A Smoker

DATE July 21, 1975

ALASKA DEPARTMENT OF FISH AND GAME
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SUPPLEMENTAL DATA

NAME JORDAN LAKE

LOCATION NAHA RIVER REVILLAGIGEDO IS.

17 JULY 1975 - FISH SAMPLING

Owing to the presence of spawning Sockeye salmon in Jordan Lake, no gill nets were set. However, rod & reel fishing was successful enough to obtain perhaps an adequate sample for determination of age, growth rates, food preferences. The fish listed below were captured during the time span of 14–17 July 1975.

SPECIES	WT (g)	FL (mm)	Sex	Location	stomach contents *	otoliths	scales
RAINBOW	25	128	♂	INLET	NOT ABLE TO IDENTIFY	✓	✓
RAINBOW	55	162	♂	OUTLET	MANY DIPTERA LARVAE	✓	✓
RAINBOW	22	123	♂	OUTLET	? INSECT LARVAE	✓	✓
RAINBOW	49	168	♂	OUTLET	UNID; INSECT PARTS	✓	✓
RAINBOW	350	331	♂	INLET	SAMPLED - CONTENTS NOT IDENTIFIED	✓	✓
RAINBOW	125	239	♂	OUTLET	SAMPLED; —	✓	✓
RAINBOW	10	107	♂	INLET	SAMPLED	✓	✓
CUTTHROAT	83	210	♂	OUTLET	SAMPLED	✓	✓
CUTTHROAT	140	255	♀	OUTLET	SAMPLED	✓	✓
DOLLY VARDEN	185	272	♀	INLET	EMPTY	✓	—
DOLLY VARDEN	318	301	♂	OUTLET	EMPTY	✓	—
DOLLY VARDEN	380	330	♂	INLET	EMPTY	✓	—

* stomach contents preserved in 90% isopropyl

16 JULY 1975 - PLANKTON TOWS : TIME : 1125 hrs, mid basin location. Four, bottom to surface, vertical plankton hauls were performed. Samples preserved in 4% Formalin. SECCHI DISC READING was 6.5 meters.

MESH : # 30-50-80N.
HAUL #1 ; Depth = 31 meters, time = 34 seconds
Haul #2 ; DEPTH = 26 meters, time = 30 seconds

MESH = # 30-50-153 N.
Haul #1 = DEPTH ; 31 meters; time 34 s
Haul #2 = DEPTH = 33 meters; time = 35 sec.

Mark Schwan

BY Andy Smoker

DATE 21 July 1975

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SUPPLEMENTAL DATA

NAME Jordan Lake

LOCATION Naha River Revillagigedo Island.

July 16, 1975

Thermal profile - 1100 hrs time, AIR TEMP = 14°C.

Depth (meters)	Temp. (cent)	Depth	Temp
Surface	15°C.	9	9.0°
1	14.5°	10	8.0°
2	14.0°	11	7.50°
3	13.5°	12	7.25°
4	13.25°	13	7.0°
5	13.0°	14	7.0°
5.25	12.75°	15	7.0°
5.6	12.0°	31	5.0°
5.8	10.5°		
6	10.5°		
7	10.0°		

July 18, 1975

Surber Samples

samples were taken from both Naha River inlet to Jordan and the Emma Lake tributary.

Naha River inlet
100 m from lake
mid stream - 15 cm deep
swift water, bottom made up of cobbles, sand & gravel
H_2O temp - 14.5°C.
Results -
mayfly & stonefly nymphs

Emma Lake tributary
10 meters from lake
moderately swift
bottom gravel & sand
depth < 10 cm.
H_2O temp 14.25°C
Results -
caddis nymph
other unidentified.

BY M. Schwan
A. Smoker

DATE 7-21-75

ALASKA DEPARTMENT OF FISH AND GAME
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SUPPLEMENTAL DATA

NAME Jordan Lake

LOCATION N4ha Drainage Revillagagedo Island

- Two drift nets were set in the main inlet to Jordan Lake.

Time set	Time pulled	Total Time
11 15 hrs 15-7-75	12 05 hrs 16-7-75	24 hrs 50 min

Samples were sorted and placed in alcohol.

The Emergence trap was place in a cove near the outlet. Water 1.5 m deep, 15.5°C; muddy bottom, no visible organic debris, 5 m from shore, floating lily pads.

Time set	Time pulled.	Total Time
11.00 hrs 15.7.75	12 10 hrs 16.7.75	25 hrs. 10 min.

Samples were placed in alcohol.

1005 hrs - Water Chemestry → Air Temp 14°C; Surface H_2O Temp 15.5°C

	D.O.	ph
Surface	10.5	8.0
Bottom (34 m)	8.0	6.6
10 m		7.5
20 m	9.25	7.2

Alkalinity
Surface - 5.0 mg/L
Bottom - 6.0 mg/L

conductivity meter malfunctional

M Schwan
BY A Smoker

DATE July 21, 1975

ALASKA DEPARTMENT OF FISH AND GAME
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SUPPLEMENTAL DATA

NAME Jordan Lake
Nana Drainage
LOCATION Revillagigedo Island

17 July 1975
Dredging Hauls

#1 NE cove near log jams
Depth: 11 meters.
Bottom: Rich brown ooze, silt.
conifer needles & other plant matter
Results: 7 chironomids
1 oligochaetes

#2 Mid basin of Lake
Depth: 32 meters
Bottom: Rich brown ooze, conifer needles
other plant matter.
Results 2 chironomids
7 oligochaetes -
7 clams

#3 South western side of inlet
Depth: 1½ meters
Bottom: Sparce silt, sandy -
Aquatic vegitation.
Results: 15 sphaeriidae
1 oligochaete
3 caddis cases
Several unknown

BY Mark Schwan
A Smoker

DATE 7-17-75

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SUPPLEMENTAL DATA

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Naha Drainage
LOCATION Revillagigedo Island

17 July 1975
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BY Mark Schwan
A Smoker

DATE 7-17-75