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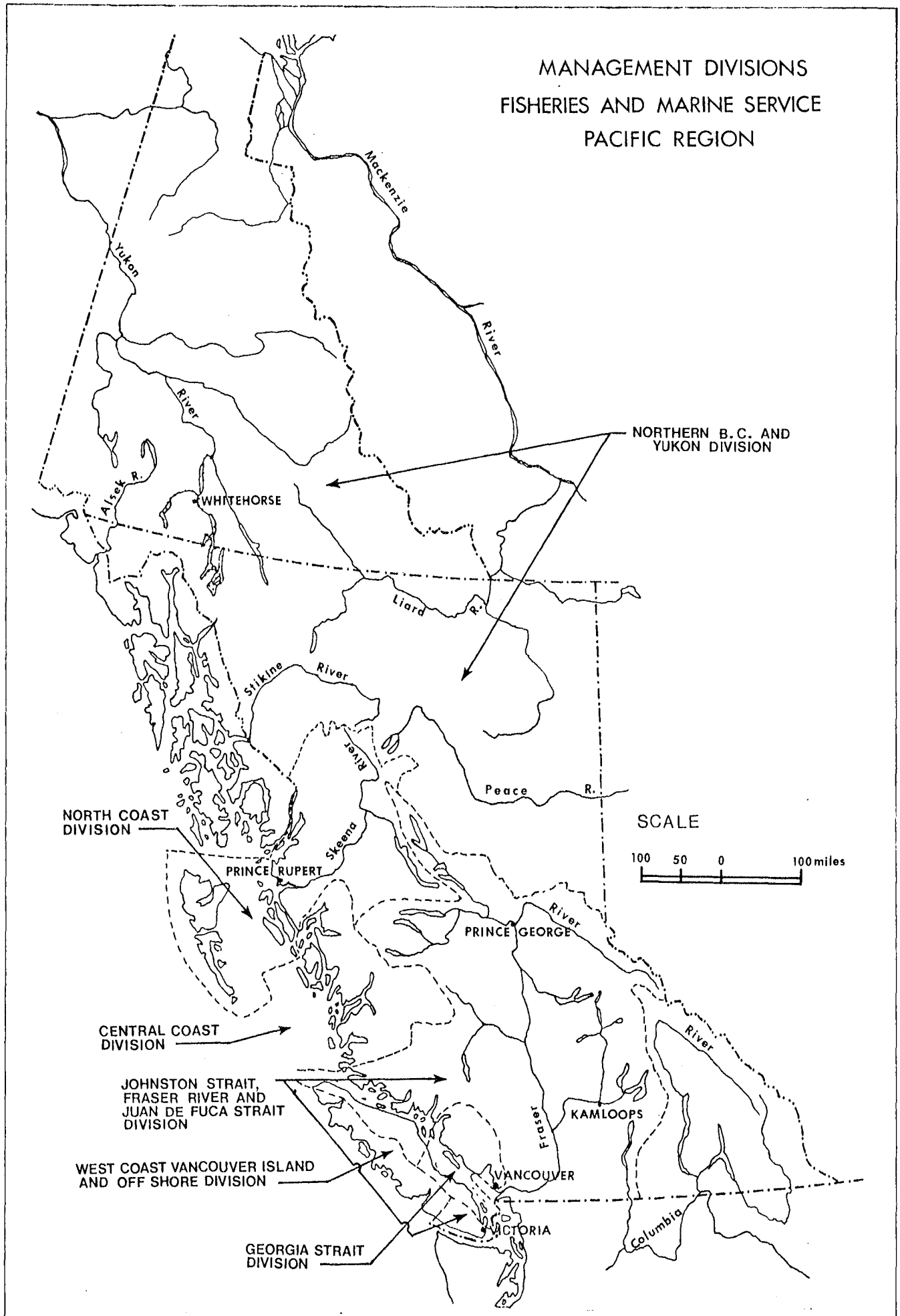
Fisheries and Marine Service | Service des pêches et des sciences de la mer

Preliminary Catalogue of Salmon Streams and Spawning Escapements of Statistical Area 16 (Pender Harbour)

D.E. Marshall
V.D. Chahley
L.L. Shannon

Pac/D-76-1

Southern Operations Branch
Pacific Region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NORTHERN B.C. AND
YUKON DIVISION
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NORTH COAST
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PRINCE RUPERT
PRINCE GEORGE
River
CENTRAL COAST
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JOHNSTON STRAIT,
FRASER RIVER AND
JUAN DE FUCA STRAIT
DIVISION
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KAMLOOPS
WEST COAST VANCOUVER ISLAND
AND OFF SHORE DIVISION
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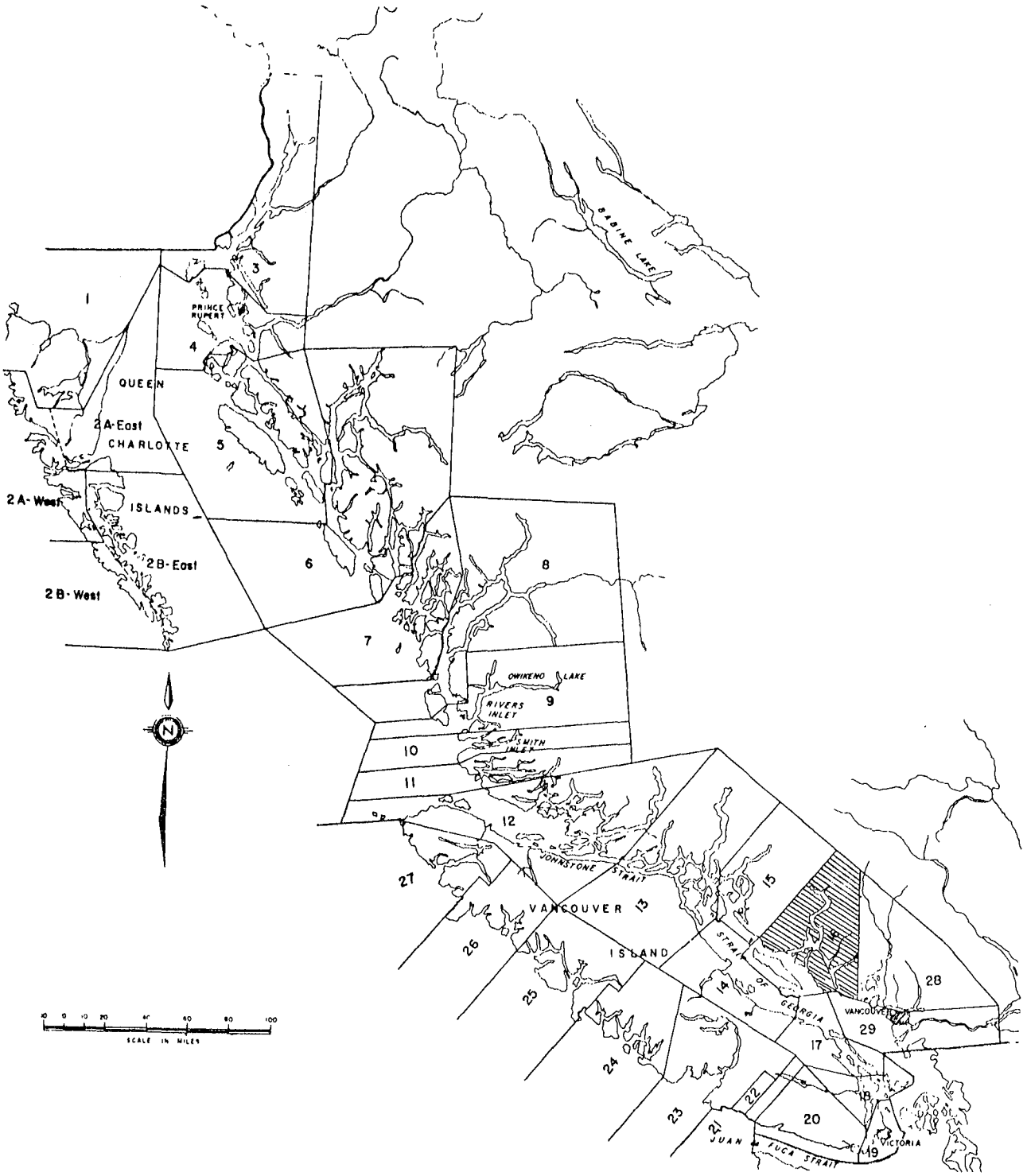
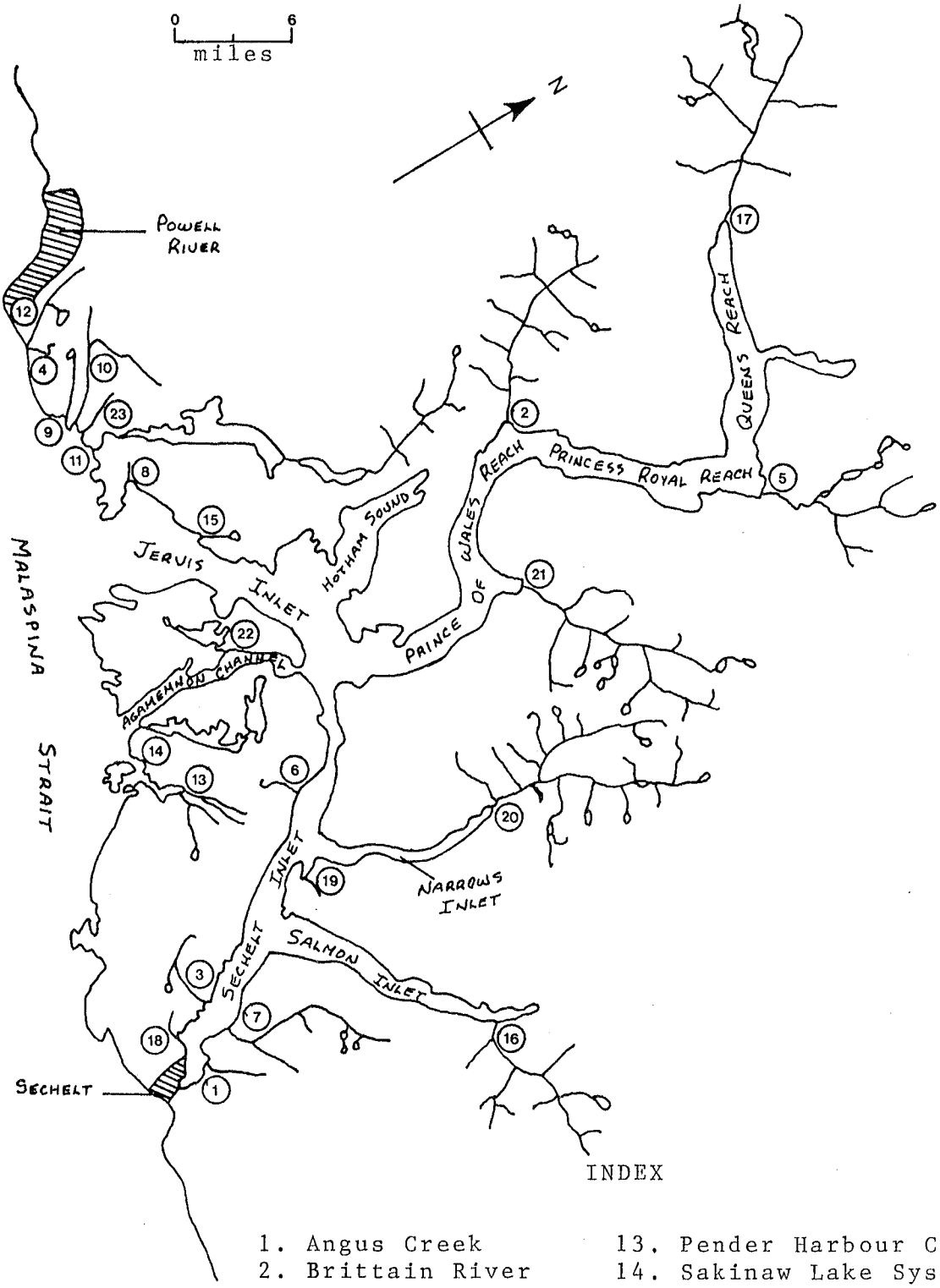
Columbia
GEORGIA STRAIT
DIVISION

STATISTICAL AREAS
PACIFIC REGION



SALMON SPAWNING STREAMS
STATISTICAL AREA 16



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23. Whittal Creek

ESCAPEMENT RECORD FOR STATISTICAL AREA 16

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947	5000	75	11825	126625	298500	
48	750	225	26025	88400	16900	
49	5431	75	15975	122450	42050	
50	4250	75	6802	76310	1650	
51	7000	75	20725	85675	114175	
52	6422	25	6675	39600	1075	
53	1531	75	4050	52950	107100	
54	4893	75	5800	48925	700	
55	5829	75	12000	23825	59075	
56	5650	400	10325	22200	250	
57	7800	75	9475	65100	102700	
58	7750	25	12050	61550	50	
59	20500	25	8950	97050	117250	
60	5250		12775	100300		
61	2250		13200	65975	124175	
62	5000	75	13050	43050	1575	
63	11000	50	19550	26200	220275	
64	7000	50	22275	39000	3500	
65	2250	50	8700	16750	43275	
66	7000		30150	25700	25	
67	10000	100	10510	16675	24710	
68	20000	100	21630	89850	200	
69	3700	100	20800	84550	32600	
70	5000	50	10980	63150	150	
71	8500		13685	37355	47625	
72	4500		7490	92610		
73	1500		10450	91720	10830	
74	6000		22445	87038		
75	16000		13105	47586	27350	
76	6000		8712	35809		
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Time						
Arr.						
Start						
Peak						
End						

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*** See Errata - last 4 pages [91-94]

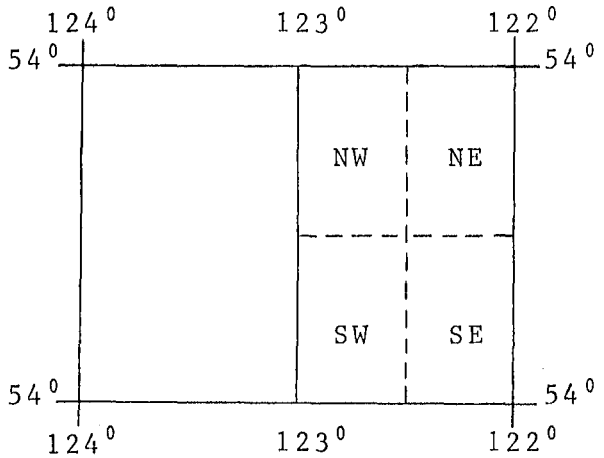
STANDARDS USED ON DESCRIPTION PAGE

Name of Stream: Name as given in Gazetteer of Canada, British Columbia edition; local names are added in lower case type.

Conservation District: As defined by the Conservation and Protection Service (April 1965).

Statistical Area: As defined by Department of Fisheries Statistical Map (June 1957).

Location and Position: Defined by quadrant indexing. Each geographical quadrilateral of the earth's surface of 1 degree in extent in latitude and longitude is divided into the SE, SW, NE and NW quarters. The south-east corner of each quadrilateral gives the initial point for the figure of reference (Gazetteer of Canada).



Length: The portion of the stream utilized by spawning salmon.

Width: Average width, estimated to the nearest foot.

Drainage: Area in square miles of the entire drainage basin feeding the stream.

Stream Bed Category Definitions:

Bedrock	bedrock
Boulder	>256 mm (>10")
Coarse	50.9 - 256 mm (2 - 10")
Fine	3.37 - 50.8 mm (1/8 - 2")
Sand & Silt	<3.37 mm

Gradient: Average vertical drop per thousand linear feet.

Wetted Area: Number of square yards of stream bed under water at average flows within the described length.

Spawning Area: Estimated square yardage of stream bed suitable for salmon spawning within the described length.

Discharge: Mean annual discharge. Maximum and minimum values are either daily means or instantanious discharges. The latter are identified by(Inst.). Discharge data is taken from "Historical Stream Flow Summary", British Columbia, Water Survey of Canada.

Temperature: As described.

Barriers and Points of Difficult Ascent: Complete and partial barriers to salmon and their distance from the stream mouth. Species likely to be affected may be listed. Both natural and man-made obstructions are defined.

Spawning Distribution: Distribution is indicated by brief comments opposite the species.

Fisheries Potential of Inaccessible Portion of Stream

General Remarks: Emphasize features of stream and of spawning population. Also includes industrial activity, routes of accessibility, etc. The comments with dates following them, are taken from "Annual Reports of Salmon Stream & Spawning Grounds", (B.C. 16's).

Escapement Record: The escapement represents the mid point of the coded range of escapement for each species. For example: 5000-10000 would be entered as 7500. Where absolute numbers are provided by Fisheries Personnel, these numbers are entered. N/O means no fish observed; UNK means some fish were seen but no estimates were made.

The timing is in reference to spawning:

E - early (first 10 days of the month)
M - middle of the month
L - late (last 10 days of the month)

MAP REFERENCES

Roads:

hard surface, all weather — more than 2 lanes

hard surface, all weather — 2 lanes, Route No. 18, less than 2

loose surface, all weather — 2 lanes wide or more

" *less than 2 lanes* — all weather, dry weather

Private Road, Trail — Private Road, Trail

Railways:

normal gauge, multiple track — Station

normal gauge, single track — Stop, Siding

abandoned, or under construction

narrow gauge, single track

Bridge, underpass or overpass

Tunnel

Boundary, International

" *Province*

" *County or District*

" *Township or Parish*

" *City or Town*

" *Reservation, Indian, Military, etc*

Power Transmission Line

Telephone or Telegraph, trunk route

Horizontal Control Point

Boundary Marker

Bench Mark — BM 2975

Spot Elevation, (in feet) — 5752

Mine or Pit

Road, Hard Surface, All Weather — Route No. 99, 2 Lanes

" *Loose Surface, All Weather* — 2 Lanes

" *Loose Surface, Less than 2 lanes* — All Weather, Dry Weather

" *Private (Logging, Mining etc.)*

" *Four Wheel Drive*

Trail

Railway — Station, Flag Stop

Main Telephone Line

Main Electric Power Line — Along Road, Wooden Poles, Steel Poles

Horizontal Control Station

Contours (Interval 500 feet) — 5000

Elevation in feet above mean sea-level — 2584'·6312'

Intermittent Stream

Swamp or Marsh

Dam

Spring

Navigation Light

Mine

Glacier

Customs Office — Cust.

House, Building

School — S

Church

" *with conspicuous Tower or Spire*

Post Office — P

Tower, Radio Mast, Lookout, etc.

Cemetery — Cem

Quarry

Sand or Gravel Pit

Cliff

Cutting

Embankment

Saw Mill — SM

Lighthouse

Wharf or Pier

Foreshore Flats — Sand, Mud

Swamp or Marsh

Lake or Pond, intermittent

Glacier or Snowfield

Stream, intermittent

Irrigation Canals, Ditches

Inundated Land, seasonal

Contours, elevation — 500, 400

" *depression* — 500, 400

" *approximate* — 500, 400

Forest, unclassified

Surveyed timber license number..... TL 2841

Lot number..... L 124 or S 66

Building.....

School.....

Non-perennial stream.....

Marsh or Swamp.....

Glacier.....

Foreshore flats..... Sand

Contours, elevation..... 500

Contours, depression.....

Forest.....

City or large town.....

Town.....

Village or settlement.....

Post office..... P

School.....

Church.....

Boundary monument.....

Astronomical position.....

Horizontal control point....

Streams:

Intermittent or dry.....

Indefinite.....

Irrigation canal or ditch.....

Rapids; falls..... R F

Intermittent lake.....

Marsh or swamp.....

Sand, gravel or mud.....

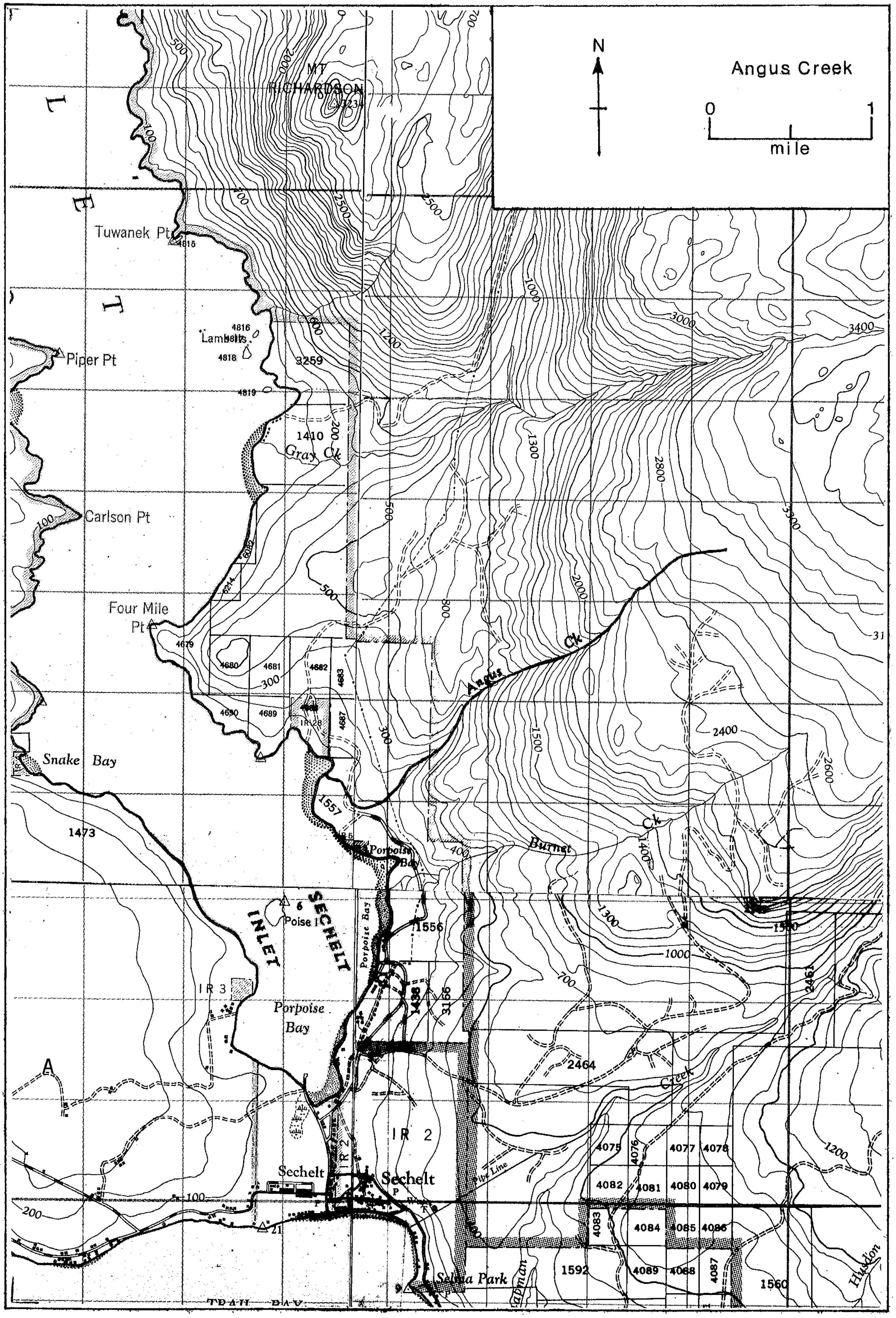
Wooded areas.....

Aerodrome.....

Landing ground.....

Seaplane base.....

Seaplane anchorage.....


Angus Creek
N
0
1
mile
MT RICHARDSON
Tuwanek Pt
Lamb Is
Piper Pt
Carlson Pt
Four Mile Pt
Gray Ck
Angus Ck
Burnet Ck
Snake Bay
Porpoise Bay
SECHELT INLET
Poise I
IR 3
IR 2
Sechelt
Selma Park
Pipe Line
Creek

NAME OF STREAM ANGUS CREEK (Peat, Pete Creek)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows SW into Porpoise Bay, S end of Sechelt Inlet - New Westminster Dist. POSITION 49 123 NW

LENGTH 2 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Sharp rise near 2 mi.

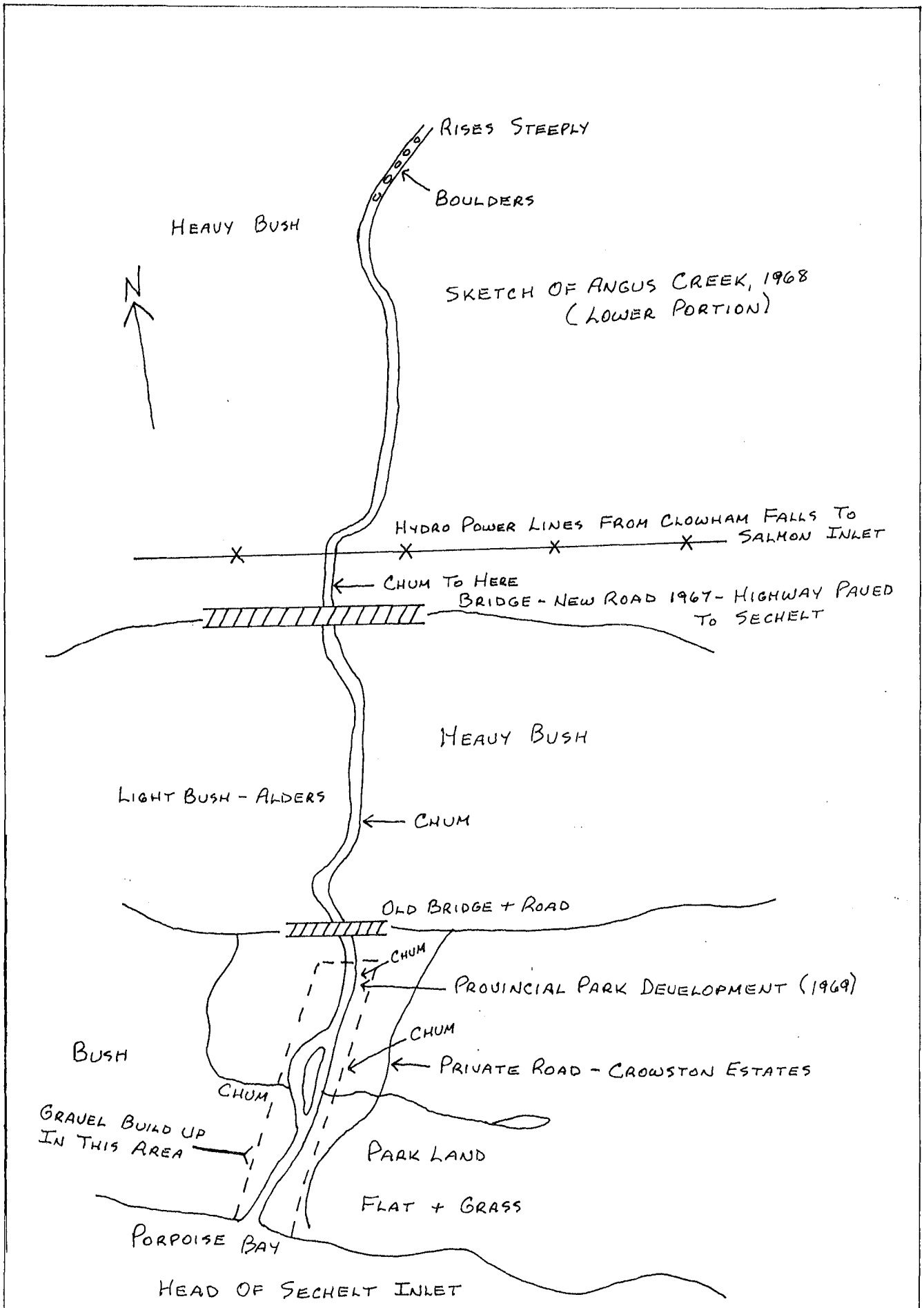
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	upper area
CHUM	generally stay within first mi.
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

- The far upper reaches, previously logged off, still cause fast run off. However, the stream is gradually becoming less subject to flash floods. (1968)
- The gravel build-up near the mouth could be removed to aid chums during the early spawning period. Most years, the stream is subject to low water levels during this early spawning period. (1969)
- Due to a shortage of gravel in the upper portions, production is limited. (1970)
- This stream could produce more chums. The unstable gravel beds cause shifting and rip rap is required. (1973)
- Some bulldozer work is required. (1974)


RISES STEEPLY
BOULDERS
HEAVY BUSH
N
SKETCH OF ANGUS CREEK, 1968
(LOWER PORTION)
HYDRO POWER LINES FROM CLOWHAM FALLS TO SALMON INLET
CHUM TO HERE
BRIDGE - NEW ROAD 1967 - HIGHWAY PAVED TO SECHELT
HEAVY BUSH
LIGHT BUSH - ALDERS
CHUM
OLD BRIDGE + ROAD
CHUM
PROVINCIAL PARK DEVELOPMENT (1969)
CHUM
PRIVATE ROAD - CROWSTON ESTATES
BUSH
CHUM
GRAVEL BUILD UP IN THIS AREA
PARK LAND
FLAT + GRASS
PORPOISE BAY
HEAD OF SECHELT INLET

ESCAPEMENT RECORD FOR ANGUS CREEK (Pete or Peat Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	[illegible]
1947			200	3500		
48			400	3500		
49			400	3500		
50			750	1500		
51			75	750		
52			25	750		
53			25	3500		
54			25	200		
55			25	25	25	
56			25	400		
57			25	750		
58			25	1500		
59			25	3500		
60			200	3500		
61			75	7500		
62			75	3500	N/O	
63			400	400	N/O	
64			100	2000		
65			75	400	N/O	
66			400	1500	N/O	
67			50	200		
68			100	3000		
69			300	4000		
70				425		
71			50	100		
72				2000		
73				3000		
74			50	500		
75			N/O	500	N/O	N/O
76			2	800	N/O	N/O
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Time						
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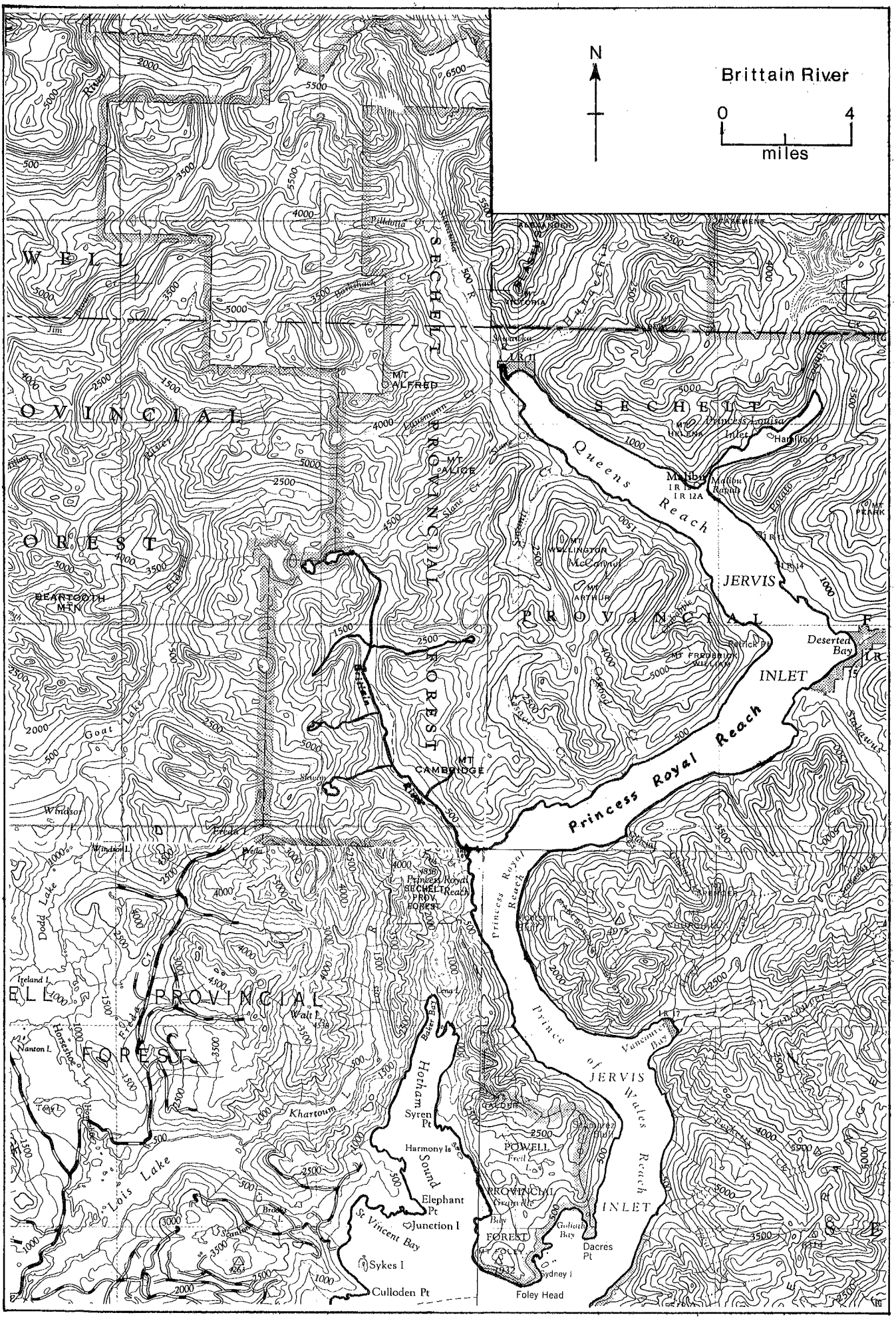
REMARKS


N
Brittain River
0
4
miles
WELL
PROVINCIAL
FOREST
SECHELT
PROVINCIAL
FOREST
MT ALFRED
MT ALICE
MT CAMBRIDGE
Queens Reach
Princess Royal Reach
Prince of Wales Reach
JERVIS
INLET
Malibu
Malibu Rapids
Deserted Bay
Patrick Pt
Hamilton
Princess Louisa Inlet
MT WELLINGTON McConnel
MT ARTHUR
MT FREDERICK WILLIAM
MT PEARK
Stakawus
Skaiakos
Skaiakos R
Skaiakos Lake
Sechelt
Sechelt Inlet
Tzoonie R
Tzoonie L
Tzoonie Mtn
Brittain R
Brittain Lake
Goat Lake
Fitzgerald
Fitzgerald R
Slanting
Slanting Cr
Slanting R
Stanley
Stanley Cr
Stanley R
Tuwanek
Tuwanek R
Tuwanek Cr
Tuwanek Mtn
Jim
Jim Cr
Jim Lake
Jim Mtn
Pilkenta
Pilkenta Cr
Pilkenta Mtn
Haslam
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Edwards Mtn
Beartooth Mtn
Windsor
Windsor L
Windsor Mtn
Dodd Lake
Ireland L
Nanton L
Horseshoe L
Tenas L
Khartoum L
Lois Lake
Walt L
Lena L
Baker Bay
Hotham Sound
Syren Pt
Harmony Is
Elephant Pt
Junction I
St Vincent Bay
Sykes I
Culloden Pt
Foley Head
Dacres Pt
Sydney I
POWELL
Powell Lake
PROVINCIAL FOREST
Gallant Bay
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Princess Royal Reach
Princess Louisa Inlet
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NAME OF STREAM BRITTAIN RIVER

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows SE into Princess Royal Reach - New Westminster Dist. POSITION 49 124 NE

LENGTH 3 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT:

FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Impassable falls at 3 mi.

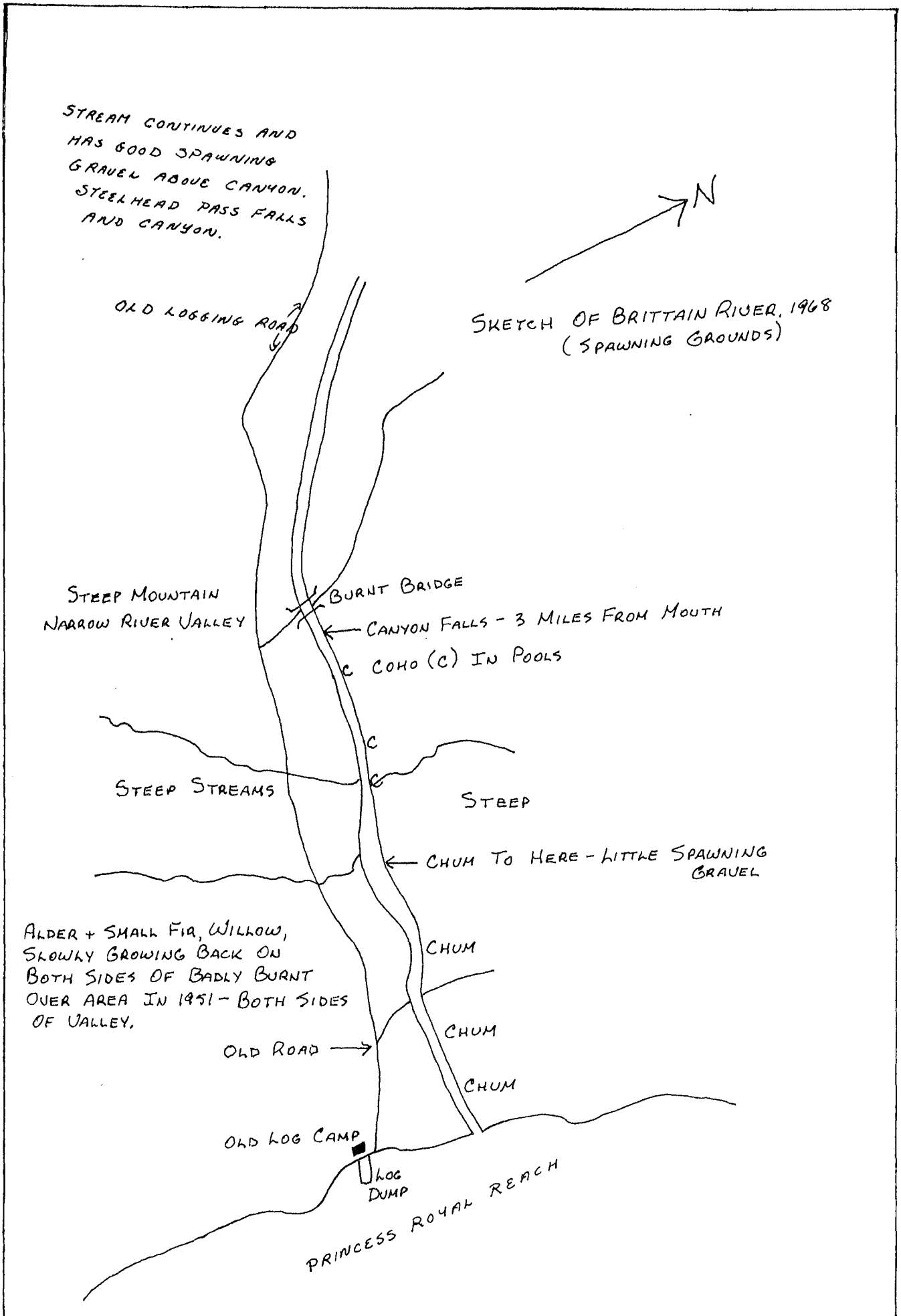
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	just below falls
CHUM	throughout
PINK (ODD YR)	throughout
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

- This logged and burnt over watershed is slowly growing cover. (1969)
- Because of the steep gradient, severe scouring occurs during the run off periods. Consequently, most of the gravel has been washed downstream. The side streams run so strong that gravel and rocks wash across the main river. (1969)
- The area for coho spawning is limited. Consequently, the losses are high. (1974)
- Incubation boxes are recommended for this stream as there is no hope of increasing the spawning population naturally. (1974)


STREAM CONTINUES AND HAS GOOD SPAWNING GRAVEL ABOVE CANYON. STEELHEAD PASS FALLS AND CANYON.
N
OLD LOGGING ROAD
SKETCH OF BRITTAIN RIVER, 1968 (SPAWNING GROUNDS)
STEEP MOUNTAIN NARROW RIVER VALLEY
BURNT BRIDGE
CANYON FALLS - 3 MILES FROM MOUTH
C COHO (C) IN POOLS
C
C
STEEP STREAMS
STEEP
CHUM TO HERE - LITTLE SPAWNING GRAVEL
ALDER + SMALL FIR, WILLOW, SLOWLY GROWING BACK ON BOTH SIDES OF BADLY BURNT OVER AREA IN 1951 - BOTH SIDES OF VALLEY.
CHUM
CHUM
CHUM
OLD ROAD
OLD LOG CAMP
LOG DUMP
PRINCESS ROYAL REACH

ESCAPEMENT RECORD FOR BRITTAIN RIVER

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947				750	3500	
48			1500	1500	750	
49			750	7500	3500	
50			75	3500	200	
51			400	1500	3500	
52			75	750	75	
53			75	1500	3500	
54			75	1500	75	
55			200	750	3500	200
56			25	400	25	
57			400	1500	3500	
58			75	1500	N/O	
59			200	750	750	
60			400	1500		
61			1500	750	3500	
62			75	400	N/O	25
63			750	25	75	75
64			400	25		25
65			75	75	N/O	25
66			400	200	N/O	75
67			200	10		100
68			200	100		200
69			500	3000	2000	200
70			100	150	N/O	
71			100		100	
72			300	1000		
73			50	100	300	
74			100	500		
75			N/O	25	50	N/O
76			N/O	50	N/O	N/O
77						
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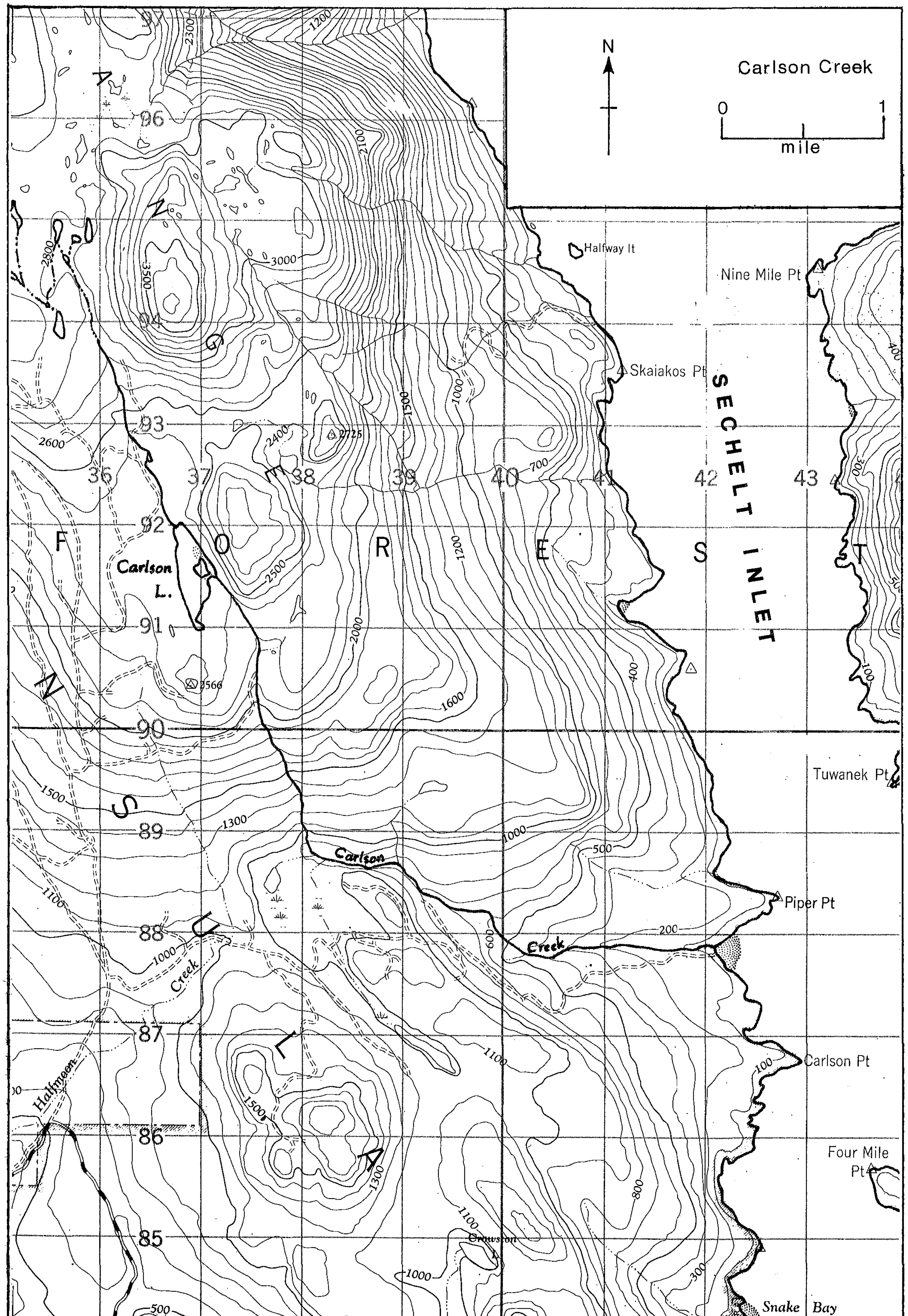
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS



Carlson Creek
N
0
1
mile
SECHELT INLET
SANG
FORREST
NSULA
Carlson L.
Carlson
Creek
Creek
Halfmoon
Crowston L.
Halfway It
Nine Mile Pt
Skaiakos Pt
Tuwanek Pt
Piper Pt
Carlson Pt
Four Mile Pt
Snake Bay

NAME OF STREAM CARLSON CREEK (Chamberlain Creek)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows E into Sechelt Inlet, S of Piper Point - New Westminster Dist. POSITION 49 123 NW

LENGTH 0.5 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Impassable falls at 0.5 mi.

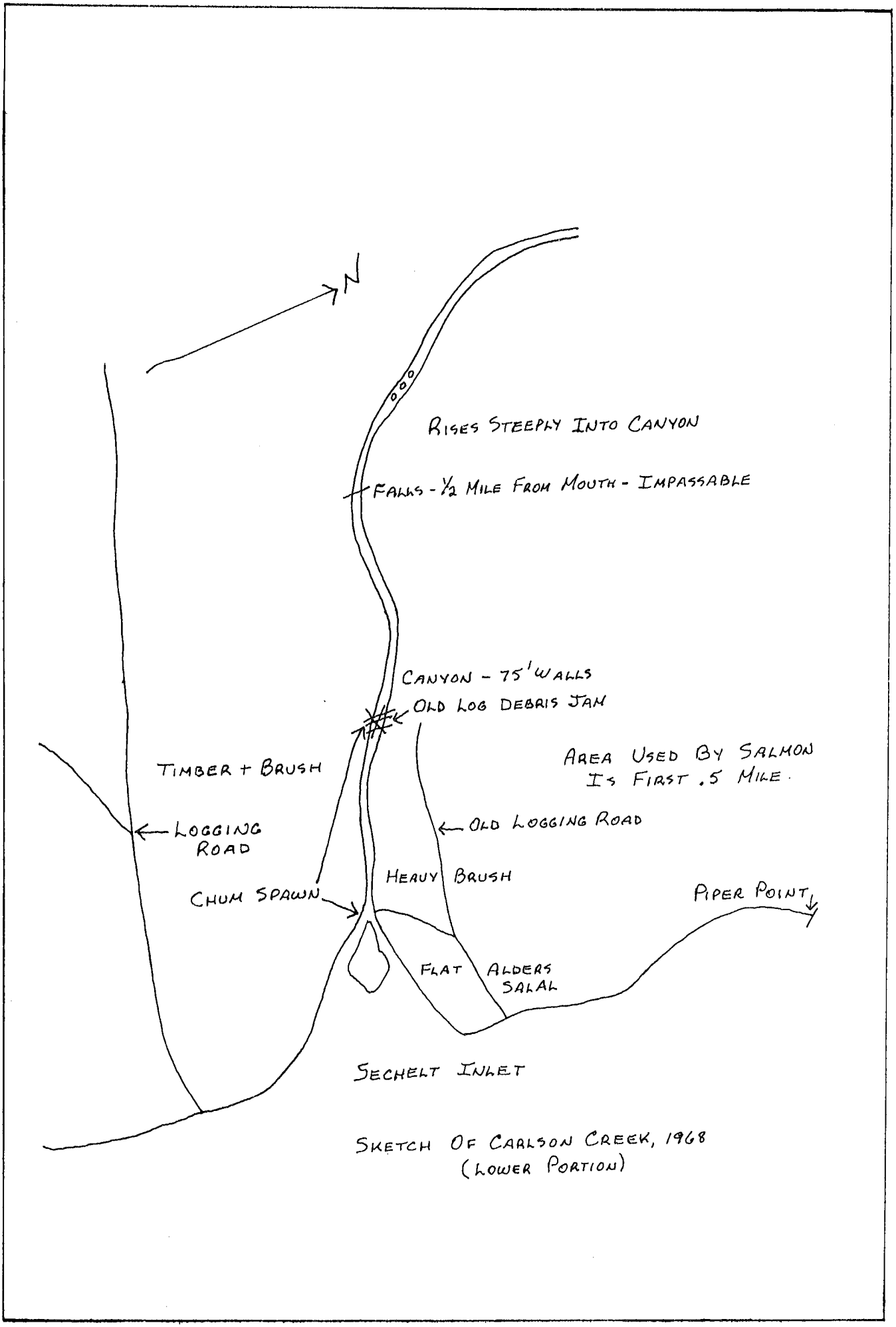
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	to .5 mi.
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

- The potential of this stream is limited because of its size.
- Mining in the upper reaches should be closely observed as the operation is next to the headwaters of the stream. (1971)



SKETCH OF CARLSON CREEK, 1968
(LOWER PORTION)

ESCAPEMENT RECORD FOR CARLSON CREEK (Chamberlain Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947				1500	750	
48				400		
49				3500	400	
50				750	75	
51				750	75	
52				200	25	
53				400	75	
54				200	25	
55				200	75	
56				200	25	
57				1500	25	
58				750	25	
59				200		
60				200		
61				200	75	
62			25	1500		
63				75		
64				400		
65				750		
66				1500		
67				100		
68				500		
69				5000		
70				200		
71				10		
72				1000		
73				500		
74				200		
75			N/O	50	N/O	
76			N/O	200	N/O	
77						
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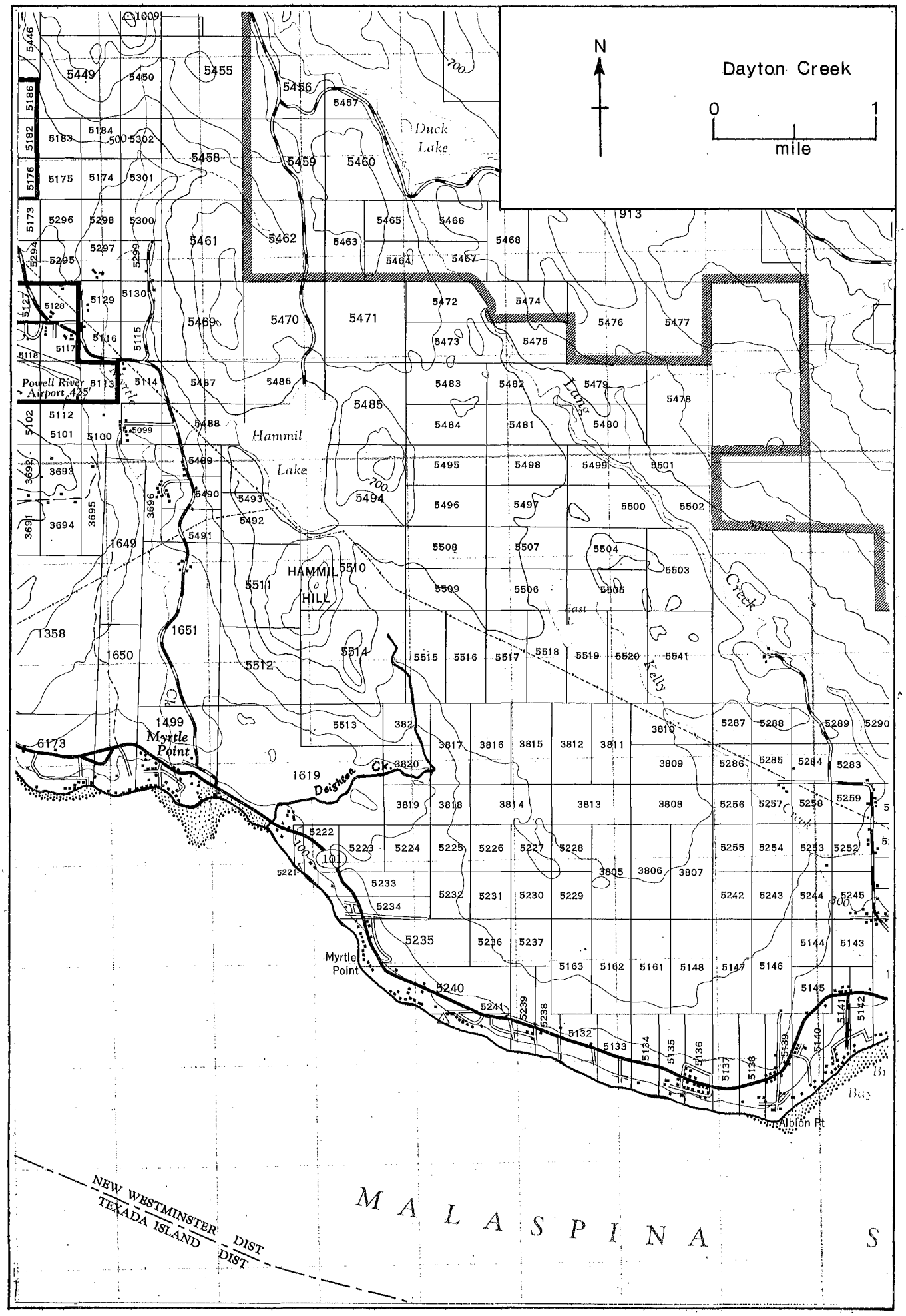
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


N
Dayton Creek
0
1
mile
Duck Lake
Hammil Lake
HAMMIL HILL
Powell River Airport 425'
Myrtle Point
Deighton Ck.
Myrtle Point
Albion Pt
NEW WESTMINSTER DIST
TEXADA ISLAND DIST
MALASPINA S

NAME OF STREAM DAYTON CREEK (Deighton Creek)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows SW into Malaspina Str., N of Myrtle Pt. - New Westminster Dist. POSITION 49 124 NE

LENGTH 1 MI. WIDTH FT. DRAINAGE SQ. MI.

COMPOSITION: BEDROCK BOULDER COARSE FINE

SILT & SAND UNCLASSIFIED

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA SQ. YD. SPAWNING AREA SQ. YD.

DISCHARGE CFS MAX MIN

TEMPERATURE

BARRIERS OR POINTS OF DIFFICULT ASCENT

SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	throughout first mi.
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

- This stream is improving with the return of forest cover. (1969)
- A small stream which is consistently productive but vulnerable to the public. (1973)

ESCAPEMENT RECORD FOR DAYTON CREEK (Deighton Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947				25		
48						
49				400		
50						
51				400		
52				400		
53			200	750		
54						
55			75	25		
56			75	200		
57			75	200		
58				200		
59				75		
60				200		
61				200		
62				200		
63				200		
64				200		
65				400		
66				400		
67						
68			N/O	1200		
69				800		
70				400		
71			N/O	600		
72			N/O	2000		
73				100		
74			20	530		
75			20	200		
76			N/O	592		
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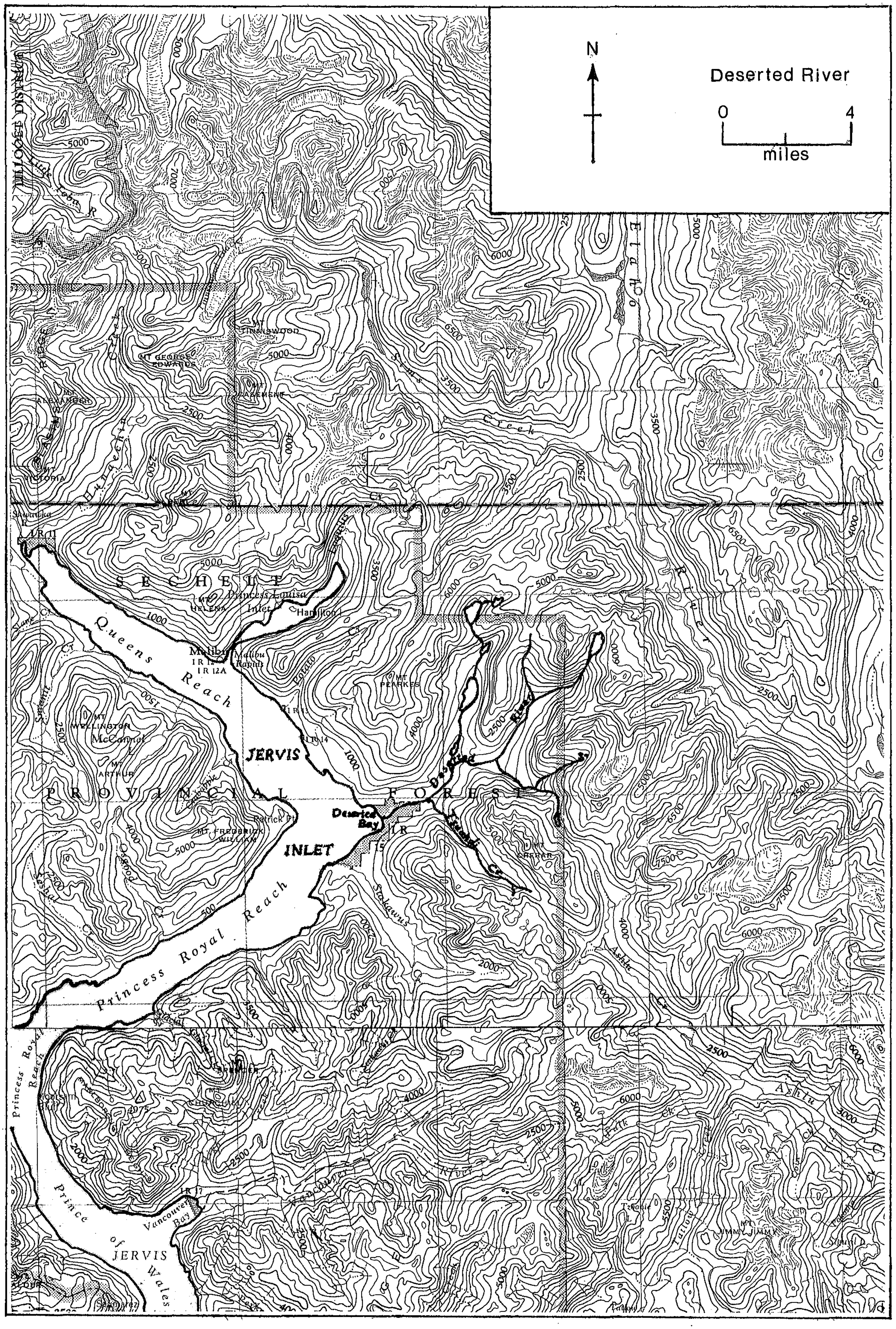
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


N
Deserted River
0
4
miles
SECHELT
PROVINCIAL FOREST
JERVIS
INLET
Queens Reach
Princess Royal Reach
Princess Louisa Inlet
Hamilton I
Malibu
Malibu Rapids
Deserted Bay
Patrick Pt
MT HELENA
MT WELLINGTON
MT ARTHUR
MT FREDERICK WILLIAM
MT PEARKES
Vancouver Bay
Prince of Wales
JERVIS
Princess Royal Reach
Elaho
River
Sims Creek
Ashlu Ck
5000
2500
6000

NAME OF STREAM DESERTED RIVER

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows SW into Deserted Bay, Princess Royal Reach - New Westminster Dist. POSITION 50 123 SW

LENGTH 3 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT:

FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE (43° F. above obstruction, May/73)

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Impassable falls at 3 mi. (about 30' high).

SPAWNING DISTRIBUTION:

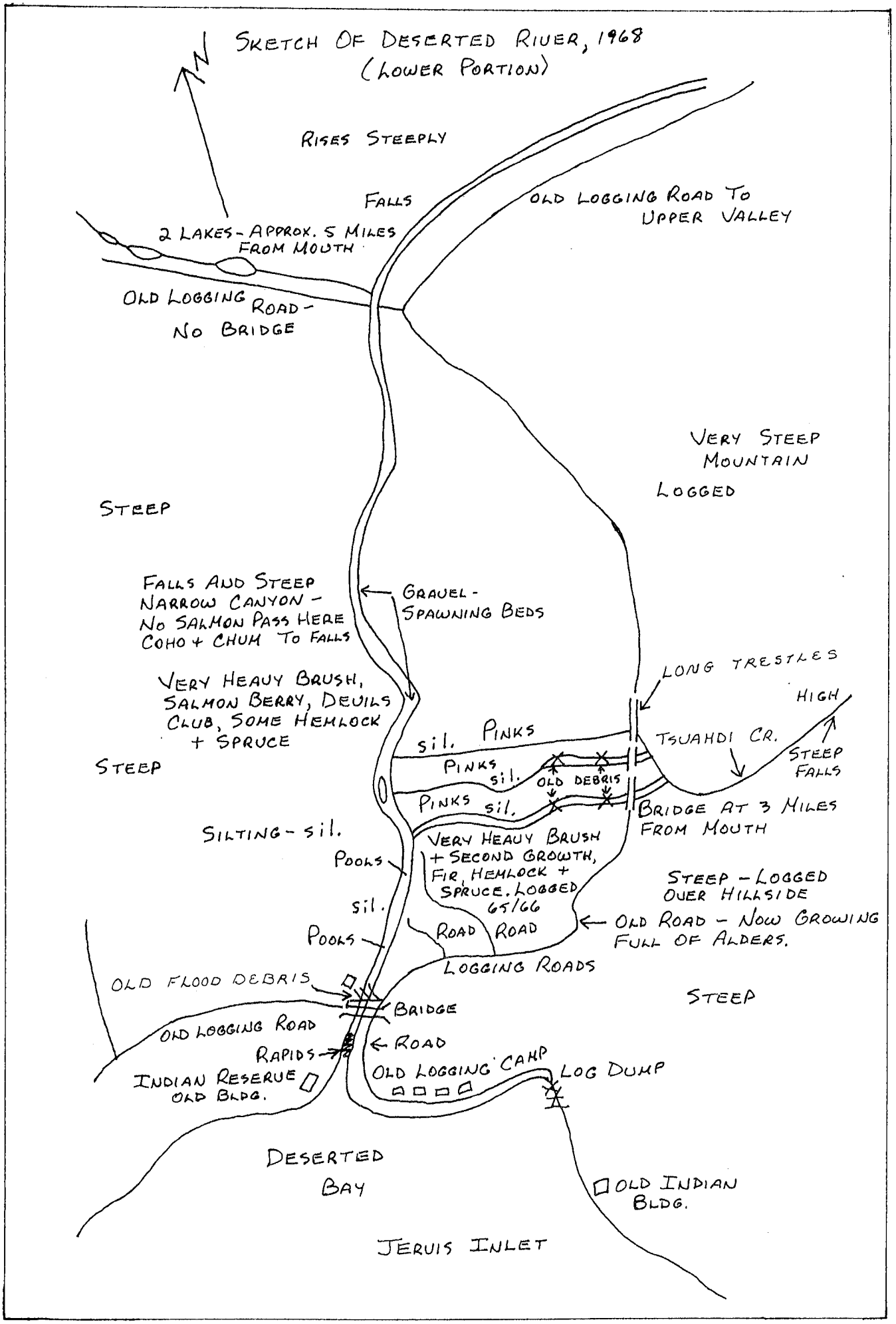
SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	up to main falls at 3 mi.
CHUM	up to main falls at 3 mi.
PINK (ODD YR)	to main falls at 3 mi. & Tsudiah Cr. from .125 - .75 mi.
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

- This stream has a good spawning area above the falls. Perhaps R&D could survey this for a coho area; step the falls, etc. (1970)

GENERAL REMARKS:

- This stream has undergone heavy silting and had very high water levels from 1967 - 1969.
- Glacial silt from Tsudiah Cr. is spoiling the first 2 miles of the main river. (1969)
- Only the mile below the falls has good gravel for spawners. (1969)
- The best part of Tsudiah Creek's pink spawning area was washed out in 1967.
- Logging was undertaken within the Deserted River watershed from 1938-1947 and a second growth of timber is now well established. (1969)
- The course of the stream bed in the lower portion has changed some. (1974)


SKETCH OF DESERTED RIVER, 1968
(LOWER PORTION)
N
RISES STEEPLY
FALLS
OLD LOGGING ROAD TO UPPER VALLEY
2 LAKES - APPROX. 5 MILES FROM MOUTH
OLD LOGGING ROAD - NO BRIDGE
VERY STEEP MOUNTAIN LOGGED
STEEP
FALLS AND STEEP NARROW CANYON - NO SALMON PASS HERE COHO + CHUM TO FALLS
GRAVEL - SPAWNING BEDS
LONG TRESTLES
HIGH
VERY HEAVY BRUSH, SALMON BERRY, DEVILS CLUB, SOME HEMLOCK + SPRUCE
sil. PINKS
TSUAHDI CR.
STEEP FALLS
STEEP
PINKS sil.
OLD DEBRIS
PINKS sil.
BRIDGE AT 3 MILES FROM MOUTH
SILTING - sil.
VERY HEAVY BRUSH + SECOND GROWTH, FIR, HEMLOCK + SPRUCE. LOGGED 65/66
POOLS
STEEP - LOGGED OVER HILLSIDE
sil.
POOLS
ROAD
ROAD
OLD ROAD - NOW GROWING FULL OF ALDERS.
LOGGING ROADS
OLD FLOOD DEBRIS
STEEP
BRIDGE
OLD LOGGING ROAD
ROAD
RAPIDS
OLD LOGGING CAMP
LOG DUMP
INDIAN RESERVE OLD BLDG.
DESERTED BAY
OLD INDIAN BLDG.
JERVIS INLET

ESCAPEMENT RECORD FOR DESERTED RIVER

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			1500	35000	100000+	
48			3500	7500	15000	
49			1500	7500	15000	
50			1500	15000	750	
51			3500	7500	7500	
52			750	7500	400	25
53			750	7500	100000+	
54			750	3500	400	75
55			3500	3500	15000	200
56			750	3500	75	
57			750	7500	15000	
58			400	7500		
59			3500	35000	15000	
60			3500	7500		
61			750	7500	7500	
62			750	1500	N/O	75
63			1500	3500	15000	75
64			750	3500	N/O	75
65			750	750	7500	25
66			3500	750	N/O	75
67			500	4000	1000	100
68			1000	20000		100
69			1500	12000	2000	200
70			3000	30000		
71			5000	10000	25000	
72			2000	30000		
73			3500	30000	5000	
74			6000	25000		
75			3000	15000	12000	N/O
76			2000	2500	N/O	N/O
77						
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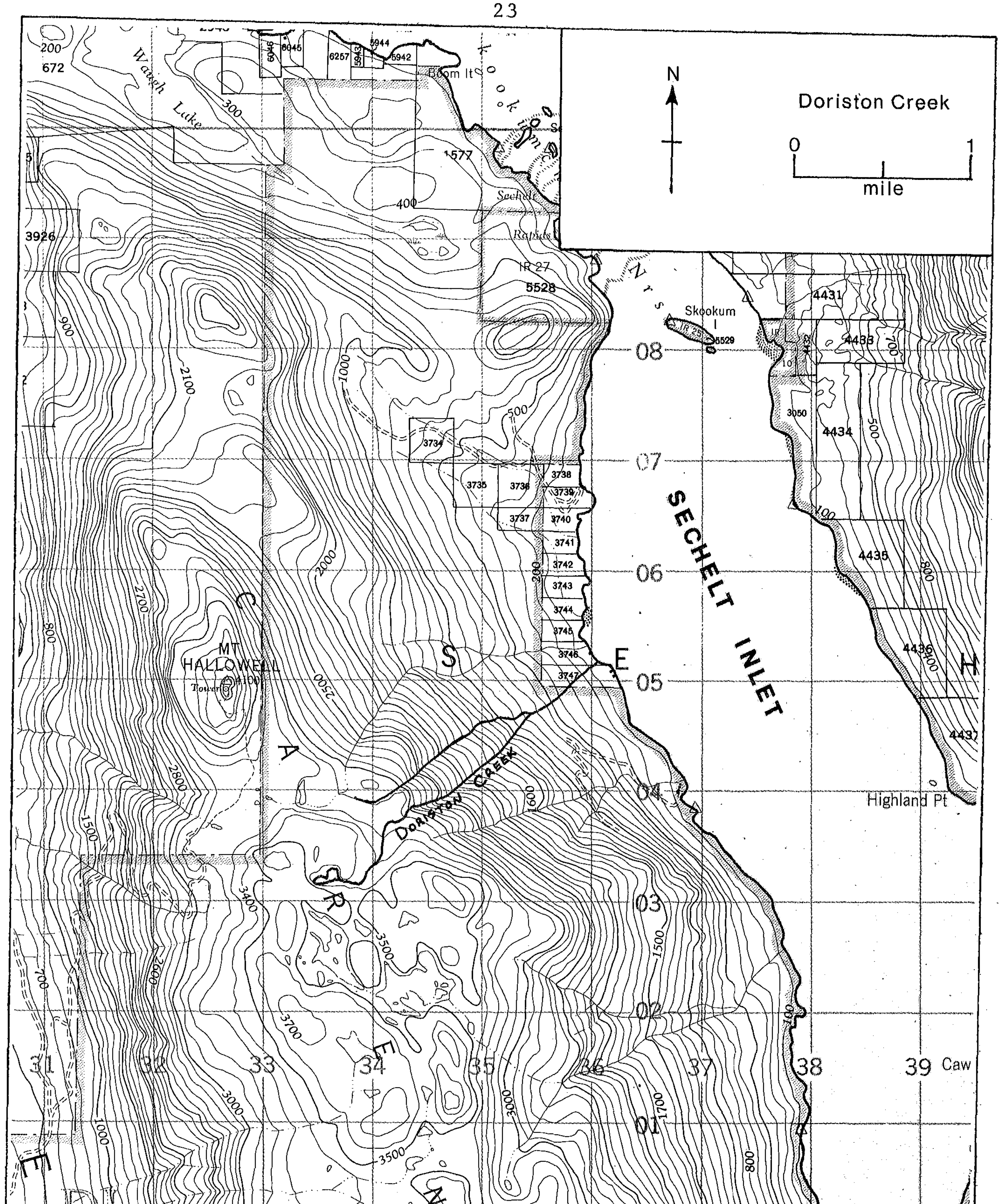
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


Doriston Creek
N
0
1
mile
SECHELT INLET
MT HALLOWELL
Tower
DORISTON CREEK
Skookum I
Highland Pt
Sechelt Rapids
Waugh Lake
Lyon L
C A S E
R E E N
P R O V I N
Caw
IR 27
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NAME OF STREAM DORISTON CREEK

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows NW into Sechelt Inlet - New Westminster Dist.

POSITION 49 123 NW

LENGTH 1 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Impassable falls at 1 mi.

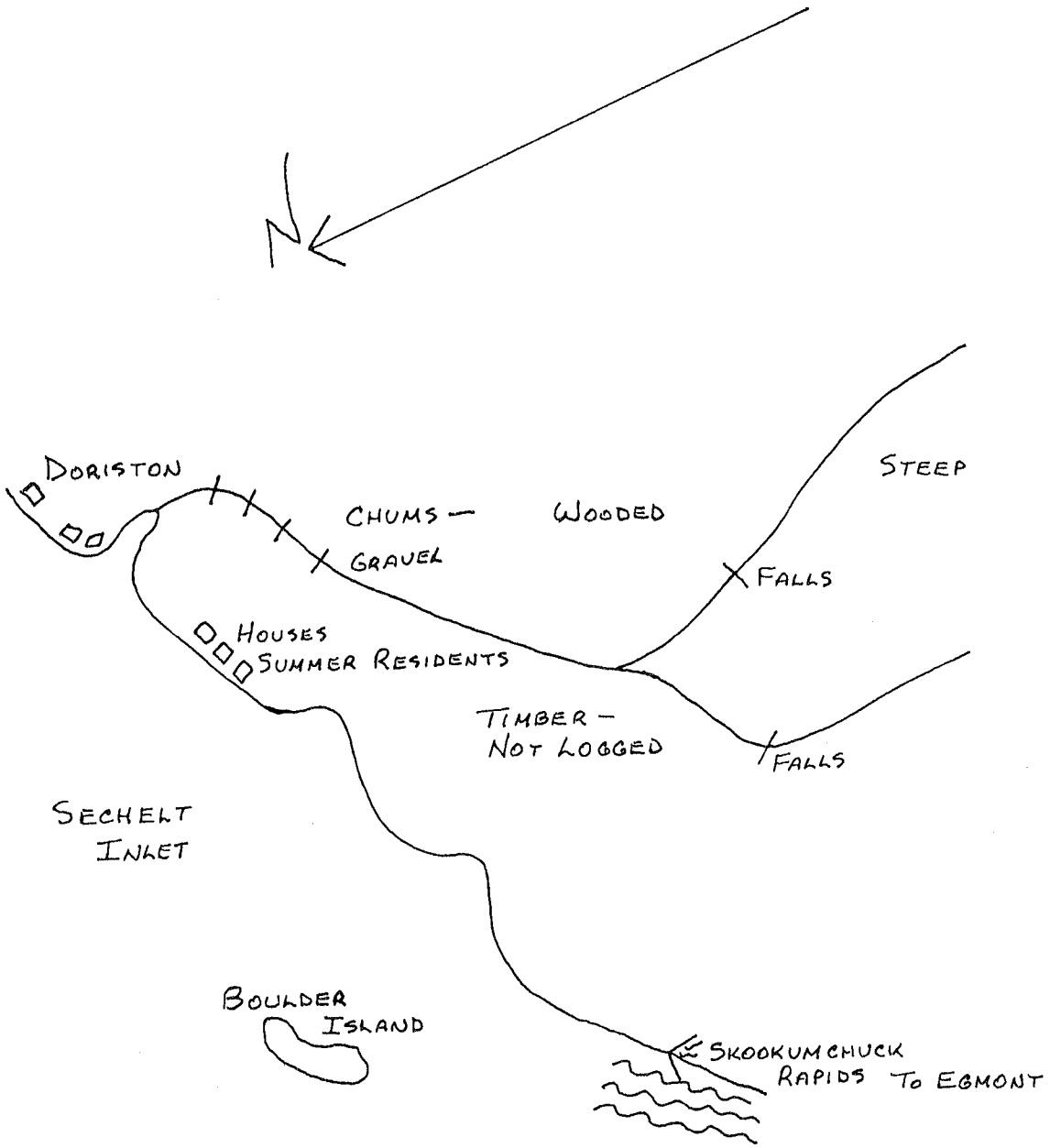
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	first mile
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

- A small narrow stream that rises steeply into the mountains 1.5 mi. from the beach. (1969)
- This stream has good potential. It may need a seeding to improve the population. (1973)

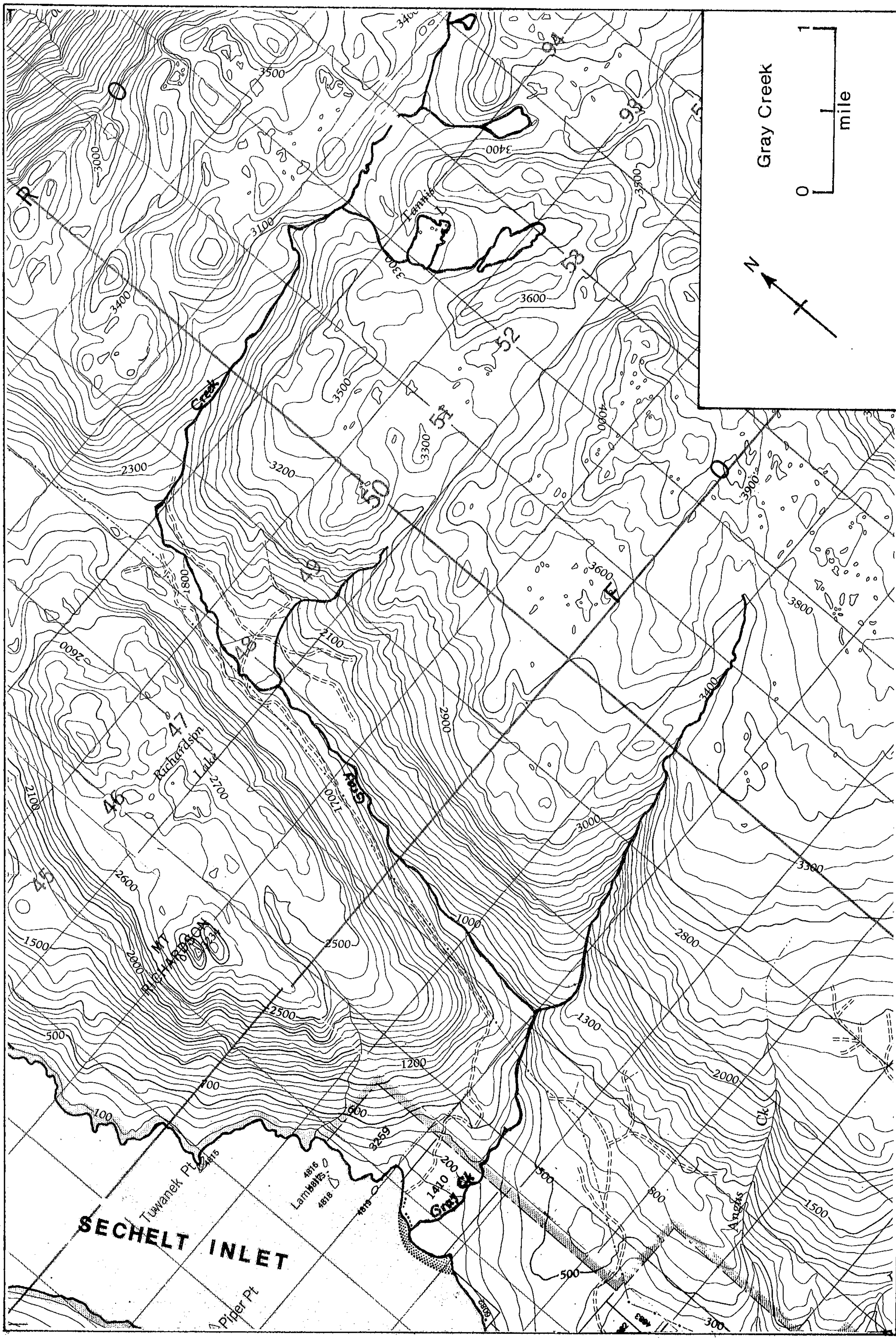


SKETCH OF DORISTON CREEK, 1968

ESCAPEMENT RECORD FOR DORISTON CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEEL...
1947						
48				750		
49			25	400		
50				75		
51				75		
52				75		
53				200		
54				200		
55				25		
56				25		
57				75		
58				25		
59				25		
60				25		
61				25		
62				25		
63				25		N/O
64			N/O	25		N/O
65			N/O	25		N/O
66			N/O	25		N/O
67				10		
68				100		
69				300		
70						
71				50		
72				200		
73				50		
74			70	50		
75			N/O	20		
76			24	26		
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


Gray Creek
0
1
mile
N
SECHELT INLET
Tuwanek Pt
Piper Pt
Richardson Lake
MT RICHARDSON
Gray Ck
Angus Ck

NAME OF STREAM GRAY CREEK (Shannon Creek)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows SW and W into Sechelt Inlet, S of Salmon Inlet - New Westminster Dist. POSITION 49 123 NW

LENGTH 3 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

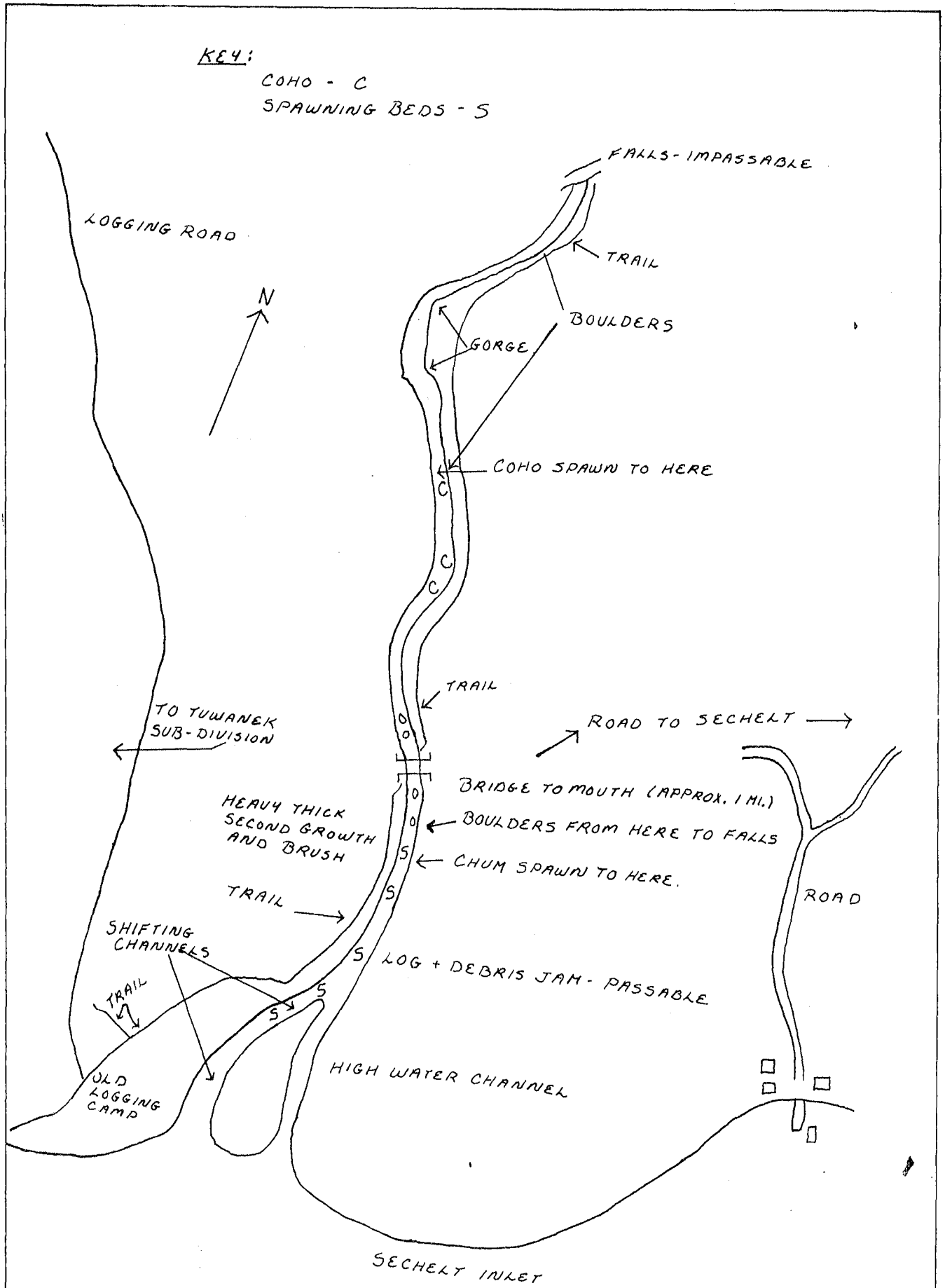
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	throughout lower reaches
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS:

- The course of the stream changed during high water. Water now flows out of both the old and new channels. (1968)
- Logging on the steep watershed in the upper reaches still causes fast run off and high water levels. Some growth in the lower levels is beginning to slow the water force. (1969)
- Most of the gravel in this stream has been scoured out. In 1972, 90% of the stream bed was void of gravel.

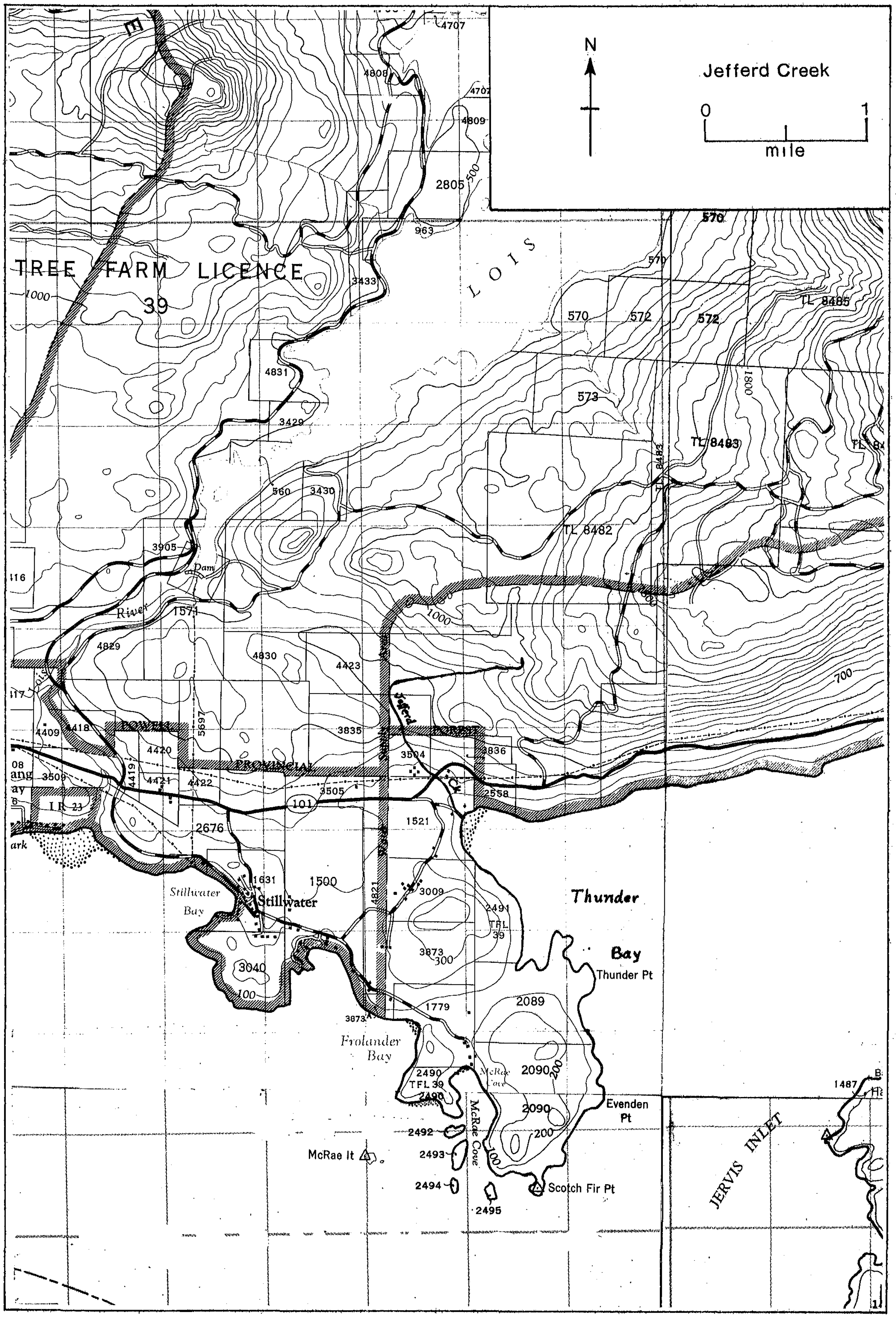


SKETCH OF GRAY (SHANNON) CREEK, 168
(LOWER REACHES)

ESCAPEMENT RECORD FOR GRAY CREEK (Shannon Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			75	3500	750	25
48				3500		
49			200	3500	400	
50			75	750	400	
51			75	750	200	
52			25	750	200	
53			25	750	400	
54			25	1500	25	
55			25	75	200	
56			25	200	25	
57			25	750	200	
58			25	400		
59			25	3500	75	
60			25	200		
61			25	750	200	
62			25	750		
63			75	25	N/O	
64			25	750	N/O	
65			25	25	N/O	
66			25	400	N/O	
67				20		
68			100	1000		
69			50	3000	1500	
70			N/O	100	N/O	N/O
71			20	20	N/O	N/O
72				500		
73			N/O	200	N/O	N/O
74				2000		
75			20	100	50	N/O
76			N/O	189	N/O	N/O
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


Jefferd Creek
N
0
1
mile
TREE FARM LICENCE
39
LOIS
River
Dam
POWELL
FOREST
PROVINCIAL
101
Stillwater
Stillwater Bay
Thunder Bay
Thunder Pt
Frolander Bay
McRae Cove
Evenden Pt
McRae It
Scotch Fir Pt
JERVIS INLET
TL 8485
TL 8483
TL 8482
IR 23

NAME OF STREAM JEFFERD CREEK (Thunder Bay Creek)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH N side of Jervis Inlet near the mouth - New Westminster Dist. POSITION 49 124 NE

LENGTH 2 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	distributed over lower portion
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

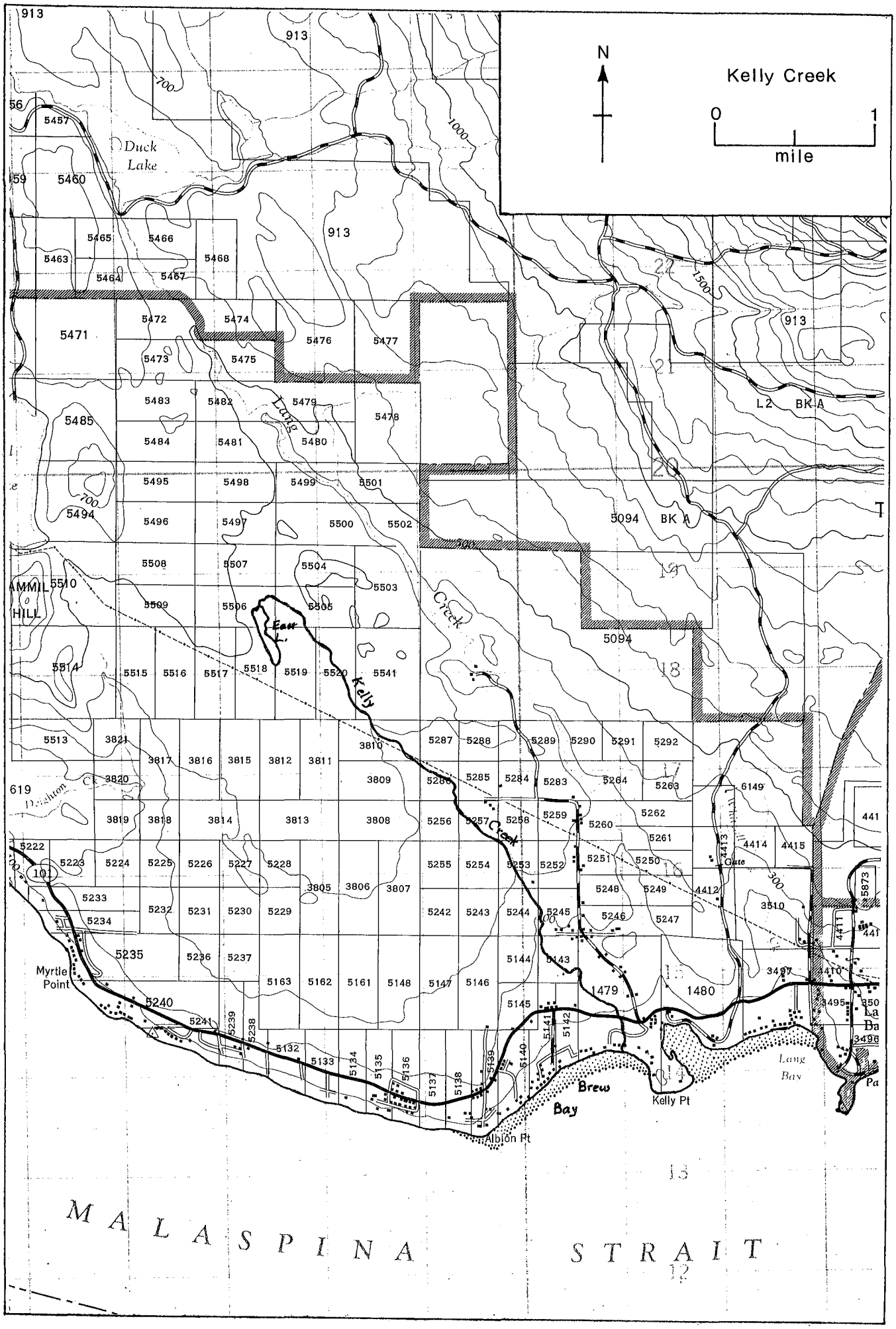
GENERAL REMARKS:

- A rough, rocky little stream with a high gradient.
- Limited but well gravelled areas in the spawning portion.
- This stream is subject to rapid water fluctuations due to the nature of its watershed.

ESCAPEMENT RECORD FOR JEFFERD CREEK (Thunder Bay Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			75	3500		
48				1500		
49			75	3500		
50						
51			25	1500	200	
52			75	1500		
53			25	1500	75	
54				750		
55			25	750		
56				750	25	
57			200	1500	75	
58			25	750		
59			25	400	25	
60			25	200		
61			75	75		
62			25	25		
63			25	200		
64			25	200		
65			25	200		
66			25	400		
67				50		
68				150		
69				150		
70				400		
71				300		
72				200		
73				400		
74			15	1000		
75			20	1000		
76			N/O	382		
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


Kelly Creek
N
0
1
mile
Duck Lake
Lang Creek
East L.
Kelly Creek
Dalton Ck
Myrtle Point
Albion Pt
Brew Bay
Kelly Pt
Lang Bay
MALASPINA STRAIT
AMMIL HILL
L2 BK A
5094 BK A
1479
1480

NAME OF STREAM KELLY CREEK (Lang, Firny Creek)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows S into Brew Bay, Malaspina Str. - New Westminster Dist. POSITION 49 124 NE

LENGTH .25 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Impassable falls at .25 mi.

SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	spread over entire length below the highway bridge
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

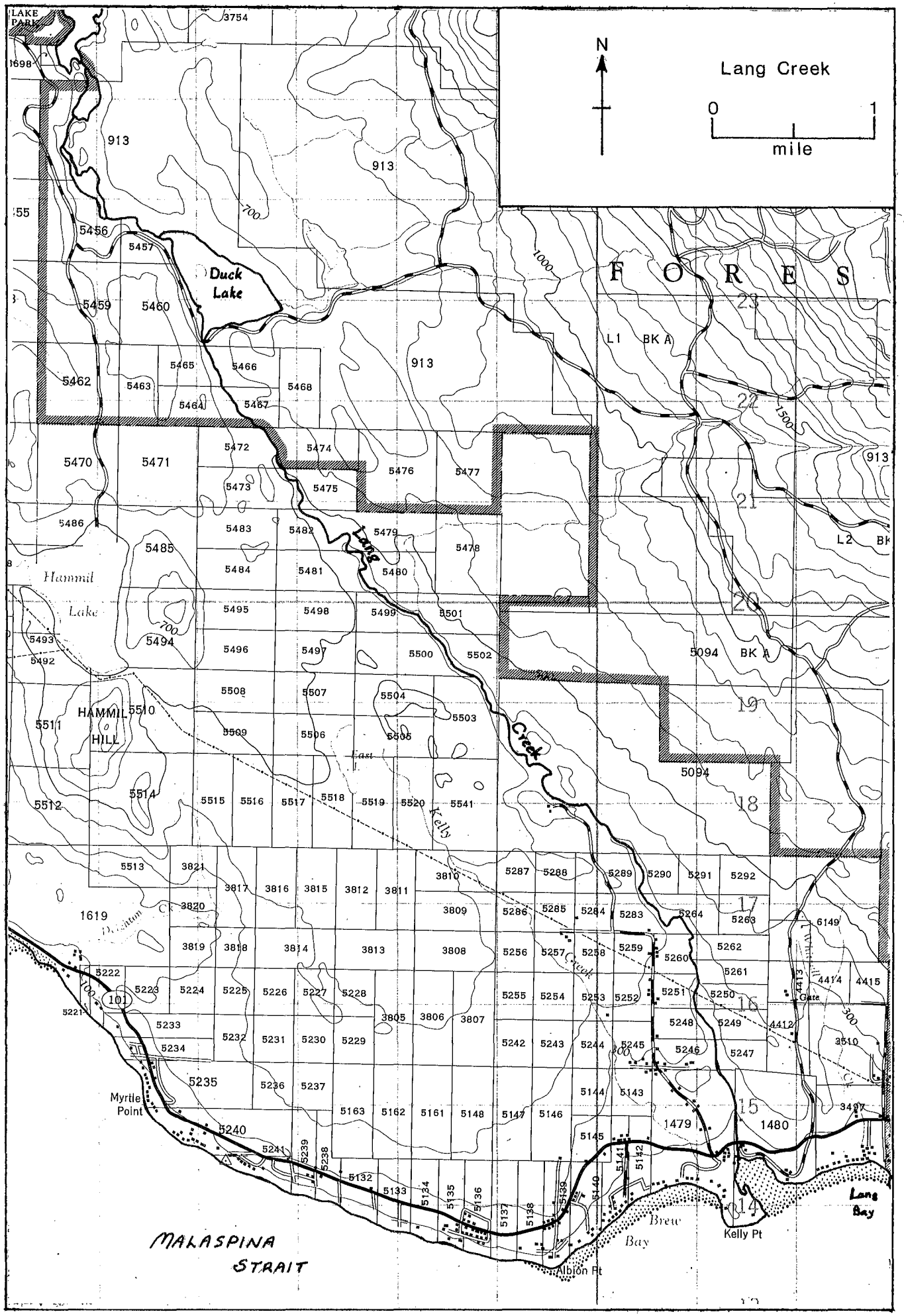
GENERAL REMARKS:

- Good spawning conditions with normal water flows during winter. (1973)
- This stream is subject to rapid changes in water level. (1974)

ESCAPEMENT RECORD FOR KELLY CREEK (Lang or Firny Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			200	3500		
48			200	3500		
49				750		
50						
51				400		
52				400		
53				750		
54						
55				75		
56			75	1500		
57			75	1500		
58			25	400		
59				150		
60				75		
61				75		
62				75		
63				75		
64				200		
65				200		
66				400		
67				30		
68			N/O	600		
69				200		
70			N/O	400		
71			120	400		
72			N/O	3000		
73			25	300		
74			25	185		
75			25	700		
76			5	559		
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


Lang Creek
N
0
1
mile
Duck Lake
Lang Creek
Hammil Lake
HAMMIL HILL
Myrtle Point
MALASPINA STRAIT
Albion Pt
Brew Bay
Kelly Pt
Lang Bay
FORES
913
700
1000
1500
300
L1 BK A
L2 BK
5094 BK A
1479
1480

NAME OF STREAM LANG CREEK (Wolfeson Creek)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows S into Lang Bay, Malaspina Str. - New Westminster Dist. POSITION 49 124 NE

LENGTH _____ MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Rock falls at 1.5 mi. (impassable to pink & chum.)
- 75' falls at 5 mi. (impassable to all species.)

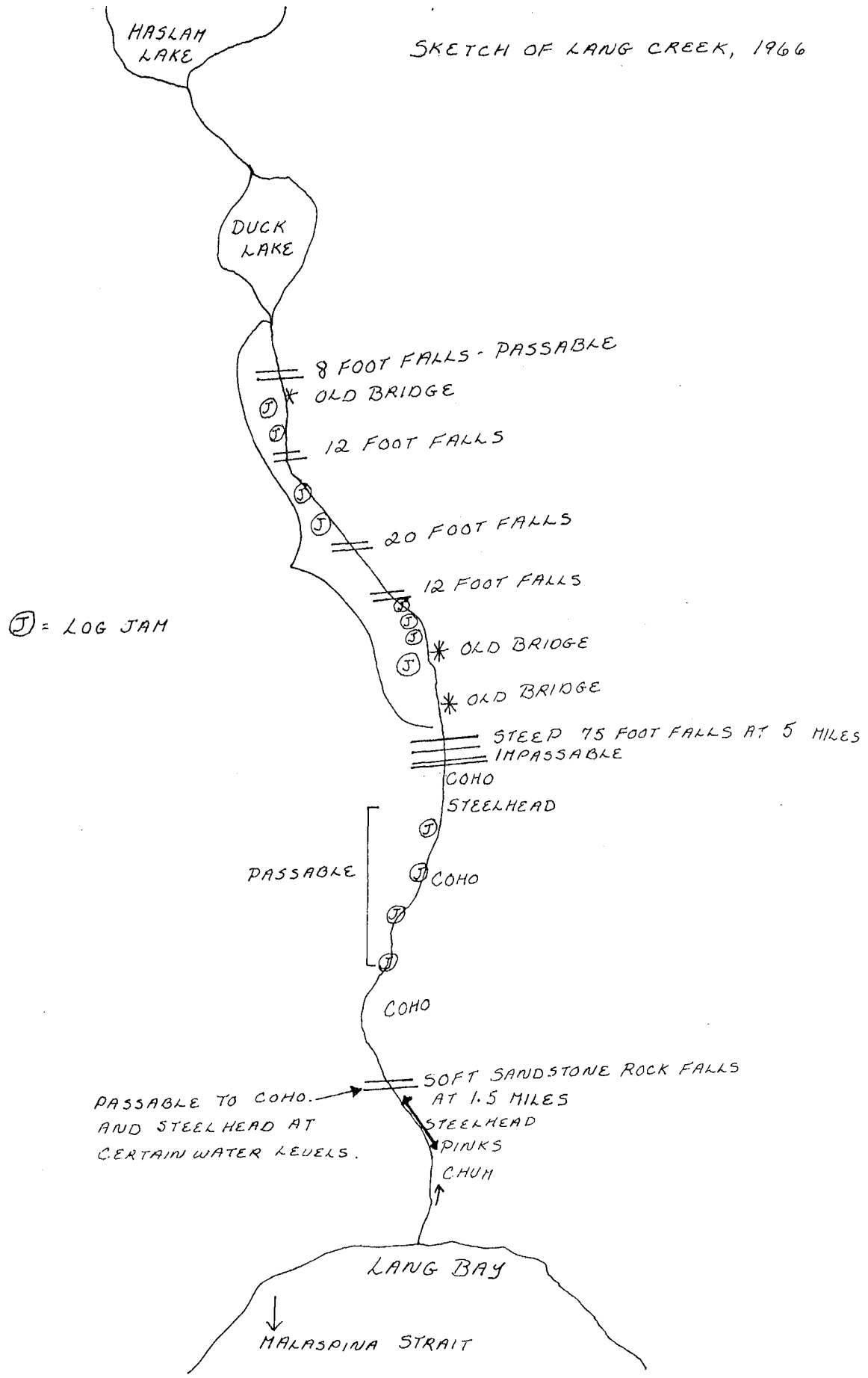
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	throughout main stream spawning area and tributaries
CHUM	1.5 mi. of stream below lower obstruction
PINK (ODD YR)	1.5 mi. of stream below lower obstruction
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

- This river appears to be quite stable and suffers little from extreme water levels. (1958)
- The gradient of the stream is relatively steep. Between the salt water and Duck Lake, a distance of 10 miles, the total drop is approximately 660'. The average drop is 1.2%
- Additional spawning area could be provided if the old logging debris in the upper reaches was removed. (1973)
- Sport fishing of steelhead and trout is carried out on this stream.


SKETCH OF LANG CREEK, 1966
HASLAM LAKE
DUCK LAKE
8 FOOT FALLS - PASSABLE
OLD BRIDGE
12 FOOT FALLS
20 FOOT FALLS
12 FOOT FALLS
OLD BRIDGE
OLD BRIDGE
STEEP 75 FOOT FALLS AT 5 MILES
IMPASSABLE
COHO
STEELHEAD
PASSABLE
COHO
COHO
SOFT SANDSTONE ROCK FALLS
AT 1.5 MILES
PASSABLE TO COHO.
AND STEELHEAD AT
CERTAIN WATER LEVELS.
STEELHEAD
PINKS
CHUM
LANG BAY
MALASPINA STRAIT
J = LOG JAM

ESCAPEMENT RECORD FOR LANG CREEK (Wolfeson Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELH...
1947			200	7500		
48			400	7500		750
49			3500	15000	3500	
50						
51			3500	7500	400	3500
52			3500	7500	200	3500
53			1500	7500	750	1500
54			3500	7500		
55			750	3500	75	750
56			3500	3500		3500
57			1500	3500	1500	3500
58			1500	3500		750
59			200	4000	250	1000
60			200	3500		750
61			200	1500	400	400
62			400	3500		400
63			200	3500	750	400
64			750	3500		750
65			400	750	25	400
66			750	1500		750
67			100	400		
68			500	6000		
69			600	4000		
70			600	1200	50	
71			1000	1200	50	
72			1000	3000		
73			200	1000		
74			300	1000		
75			200	5000	N/O	N/O
76			202	749	N/O	N/O
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


N
Lois River
0
4
miles
FOREST
BEARTOOTH MTN
Powell Lake
GOAT ISLAND
Frogpond Lake
Clover L
Goat Lake
Windsor
MT CAMBRIDGE
Goat L.
POWELL PROVINCIAL FOREST
MT MAHON
Inland L
Haslam Lake
Lewis
Dodd Lake
Ireland L
Nanton L
Horseshoe
SMITH RANGE
Tony L
Khartoum L
Lois Lake
Princess Royal Reach
SECHELT PROV FOREST
Hotham Sound
Syren Pt
Harmony Is
Elephant Pt
St Vincent Bay
Junction I
Sykes I
Culloden Pt
Powell Lake
Cranberry Lake
Cranberry L
Duck L
Hammil L
Powell River
Myrtle Point
Myrtle Pt
Brooks L
Scanlon
Ahlstrom Pt
Saltery Bay
JERVIS INLET
Captain Island
Nelson I
Egmont
Thunder Bay
Thunder Pt
Evenden Pt
Hardy I
Vanguard Bay
Earls Cove
MALASPINA STRAIT
Albion Pt
Kelly Pt
Lang Bay
PALM BEACH PROV PARK
Stillwater Bay
Stillwater
Frolander Bay
McRae Cove
Scotch Fir Pt
Alexander Pt
Blind Bay
NELSON ISLAND
Hidden Basin
Kelly I
Billings Bay
Strawberry I
Cockburn Bay
Cape Cockburn
Agamemnon Channel
Sechelt Peninsula
Sakinaw Lake
Quarry Bay
Nelson Rk
Hodgson Is
Irvines Landing
Pearson I
Pender Har
Garden Bay
Kleindale
Moore Pt
Madeira Park
Butterfly Pt
Spyglass Bay
Raven Bay
Pocahontas Bay
COMET MTN
MT POCAHONTAS
Northeast Pt
Gillies Bay
HARWOOD POINT PROVINCIAL PARK
Dick I
Mouat Bay
Mouat Is
ISLAND
MT GRANT
NEW WESTMINSTER LAND DISTRICT
Foley Head
Killam Bay
Granville Bay
Goliath Bay
FOREST
MT FOLEY
Sydney I

NAME OF STREAM LOIS RIVER (Eagle Creek)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows SW into Malaspina Str., E of Lang Bay - New Westminster Dist. POSITION 49 124 NE

LENGTH 0.2 MI. WIDTH FT. DRAINAGE SQ. MI.

COMPOSITION: BEDROCK BOULDER COARSE FINE

SILT & SAND UNCLASSIFIED

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA SQ. YD. SPAWNING AREA SQ. YD.

DISCHARGE CFS MAX MIN

TEMPERATURE

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Impassable series of rock falls at 300 yds.

SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

- Above the Scalon Dam, a series of lakes and feeder streams extend many miles into the interior. This system could provide a good spawning area if a method for transporting salmon and fry past the Scalon Dam were devised. It is believed that sockeye once used this system as kokanee are quite common in Lois Lake.

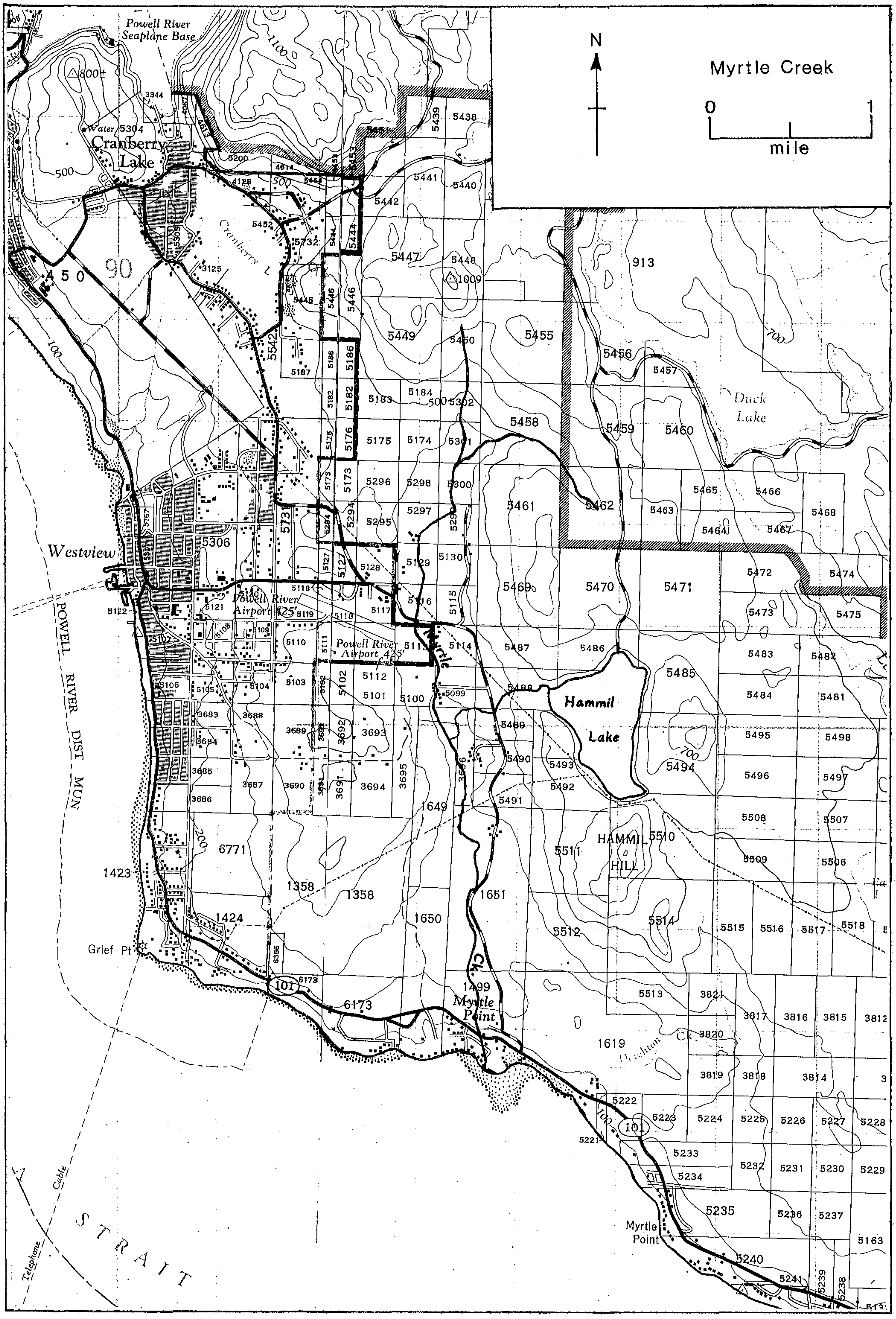
GENERAL REMARKS:

- A minor salmon producing stream with course gravel and a few good pools near the mouth. (1972)
- The water flow is controlled by Haslam Dam (Scalon Dam); situated above the impassable falls. Consequently, the stream is subject to rapid changes in water flow. (1974)
- This stream has limited spawning area. Salmon spawn in tidal affected waters. (1969)

ESCAPEMENT RECORD FOR LOIS RIVER (Eagle Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947				200		
48						
49			75	400		
50						
51				400		
52				400		
53				400		
54						
55				75		
56				200		
57				400		
58				400		
59				400		
60				200		
61				200		
62				200		
63				200		
64				200		
65				200		
66				200		
67			N/O	30		
68			N/O	600		
69				300		
70				500		
71				75		
72				100		
73				150		
74				153		
75			N/O	75		
76			N/O	176		
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS Hydro dam flushed out some spawn in 1976.


Myrtle Creek
N
0
1
mile
Powell River Seaplane Base
Cranberry Lake
Cranberry L
Westview
Powell River Airport 425'
POWELL RIVER DIST MUN
Hammil Lake
HAMMIL HILL
Duck Lake
Myrtle Ck
Myrtle Point
Grief Pt
STRAIT
Telephone Cable
101

NAME OF STREAM MYRTLE CREEK (Frock Creek)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows S into Malaspina Str. at Myrtle Pt. Settlement - New Westminster Dist. POSITION 49 124 NE

LENGTH 7.5 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Obstructed by a man made dam (partially removed) at .5 mi.

SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	throughout and in small side streams
CHUM	to .5 mi.
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

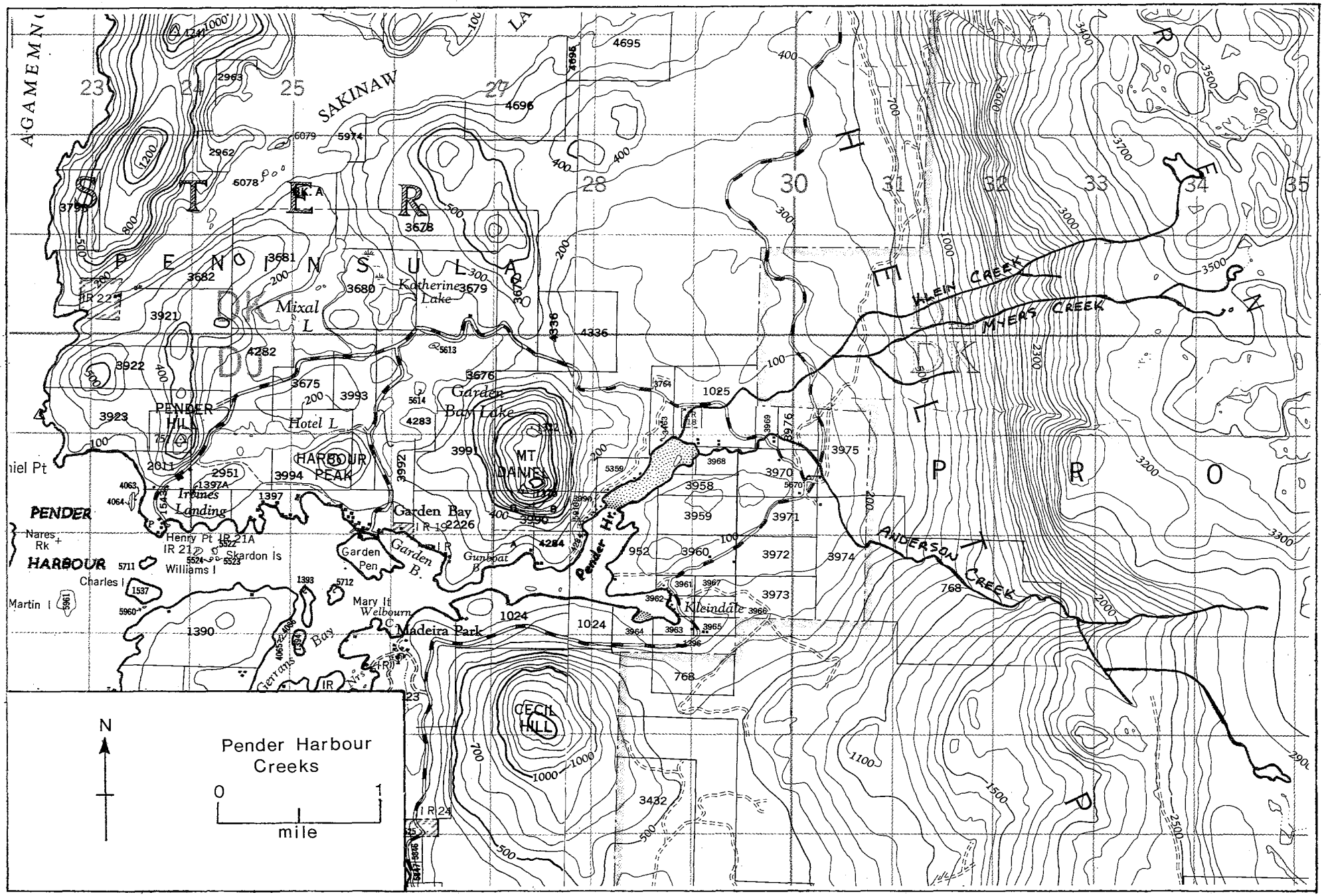
GENERAL REMARKS:

- Limited spawning area. (1971)
- The lower portion of the stream has been badly scoured due to high water levels. (1971)
- The stream bed consists of course, bouldery gravel. (1971)

ESCAPEMENT RECORD FOR MYRTLE CREEK (Frock Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			25	400		
48						
49				1500		
50						
51				750		
52				1500		
53				750		
54				25		
55				25		
56				200		
57				750		
58			25	750		
59			25	400		
60			25	200		
61			25	200		
62			25	200		
63			25	200		
64			25	400		
65			25	400		
66			25	200		
67			N/O	50	N/O	
68			N/O	1200	N/O	
69				600		
70			30	150		
71			30	70		
72			30	300		
73			25	200		
74			50	300		
75			50	416		
76			3	236		
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


SAKINAW
SECHELT PENINSULA
Mixal L
Katherine Lake
Garden Bay Lake
Hotel L
PENDER HILL
HARBOUR PEAK
MT DANIEL
Irvines Landing
Garden Bay
Garden Pen
Gunboat B
Pender Hr
Madeira Park
Welbourn C
Kleindale
CECIL HILL
KLEIN CREEK
MYERS CREEK
ANDERSON CREEK
PENDER HARBOUR
Nares Rk
Henry Pt IR 21A
IR 21
Skardon Is
Williams I
Charles I
Martin I
Mary It
Gerrans Bay
IR 24
N
Pender Harbour Creeks
0
1
mile

NAME OF STREAM PENDER HARBOUR CREEKS (Anderson, Myers, Klein)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH E side of Malaspina Str., SE of Nelson I., New Westminster Dist. POSITION 49 124 NE

LENGTH * MI. WIDTH FT. DRAINAGE SQ. MI.

COMPOSITION: BEDROCK BOULDER COARSE FINE

SILT & SAND UNCLASSIFIED

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA SQ. YD. SPAWNING AREA SQ. YD.

DISCHARGE CFS MAX MIN

TEMPERATURE

BARRIERS OR POINTS OF DIFFICULT ASCENT

-Impassable at 2 mi. due to high gradient in all three creeks.

SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	side streams and upper reaches
CHUM	up to highway in Anderson Cr.
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

-These small streams have good spawning gravel to the falls. (1969)

-Parts of the gravel buildups in Anderson Creek have been seriously eroded. Rip-rap is required. (1973)

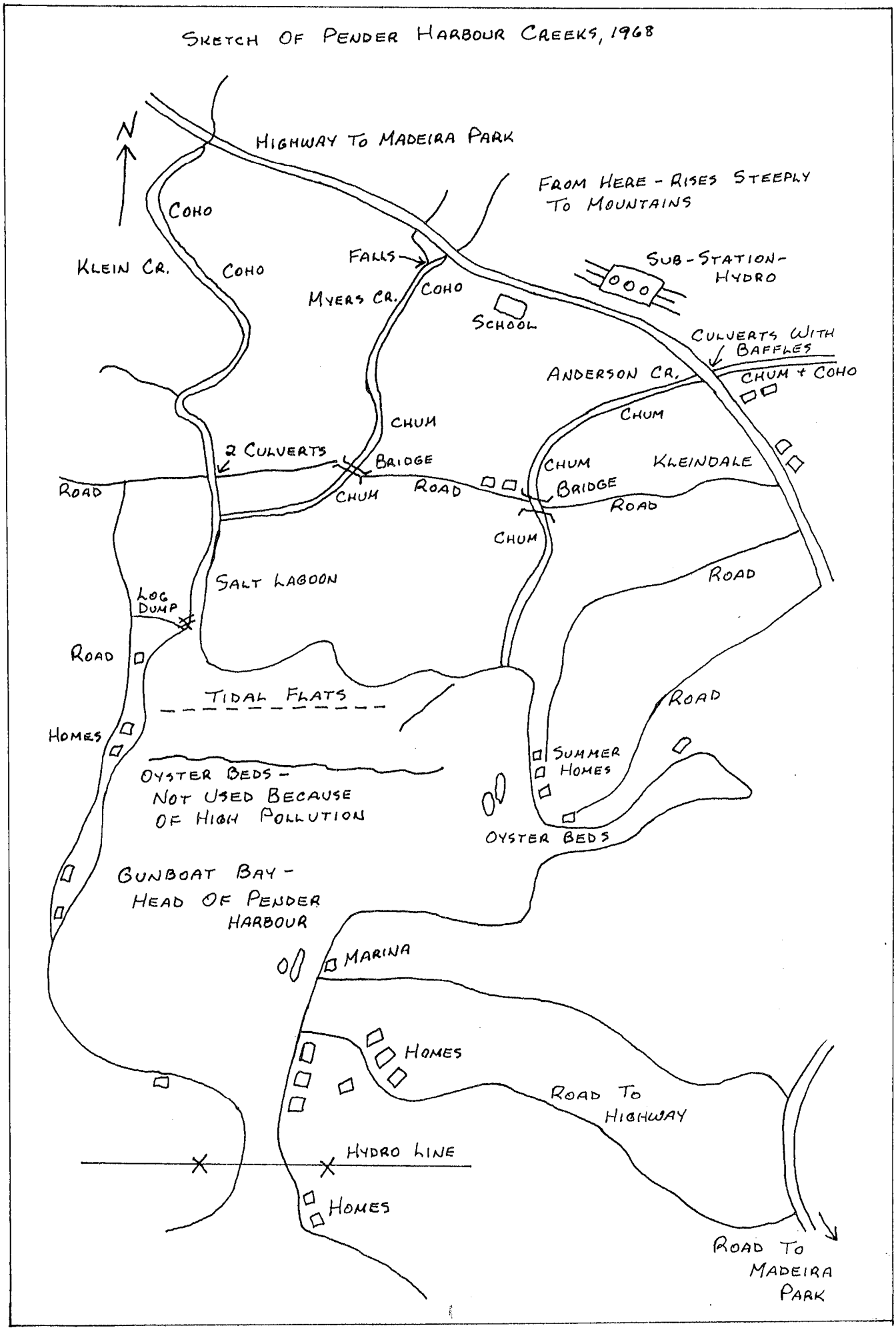
-There has been some change in the course of Anderson Creek, .5 miles from the mouth. (1971)

-Small leeches are killing the fresh run of salmon in all three creeks. (1970)

-Patrol of streams, to prevent molestation during chum runs, is necessary. (1969)

* Each stream is passable up to 2 mi.

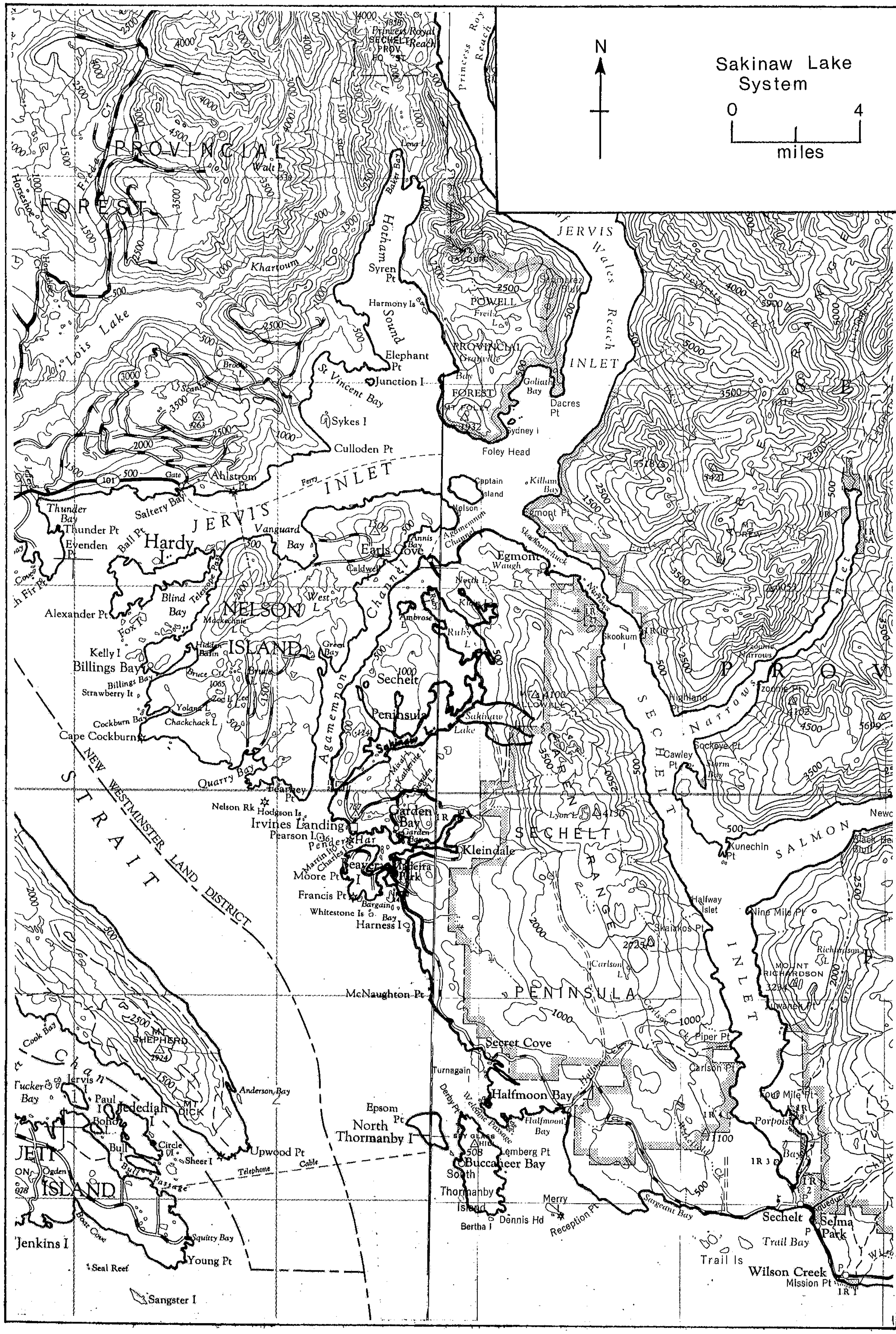
Sketch Of Pender Harbour Creeks, 1968



ESCAPEMENT RECORD FOR PENDER HARBOUR CREEKS (Anderson, Myers & Klein)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			200	1500		
48						
49			200	7500		
50			400	3500		
51			400	3500		
52			200	1500		
53			200	7500		
54			400	7500		
55			400	1500		25
56			200	1500		
57			400	7500		
58			75	7500		
59			25	3500		
60			200	3500		
61			400	7500		25
62			750	1500		25
63			400	750		
64			750	1500		
65			400	750		N/O
66			1500	750		25
67			500	800		
68			1200	12000		
69			450	5500		
70			800	3200		
71			200	2500		
72			100	16000		
73			300	16000		
74			1000	15000		
75			200	3000		
76			100	4000		
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


Sakinaw Lake
System
N
0
4
miles
PROVINCIAL
FOREST
Lois Lake
Khartoum L
Hotham
Sound
Syren Pt
Harmony Is
Elephant Pt
Junction I
St Vincent Bay
Sykes I
Culloden Pt
Ahlstrom Pt
Saltery Bay
Thunder Bay
Thunder Pt
Evenden Pt
Ball Pt
JERVIS
INLET
Hardy I
Vanguard Bay
Earls Cove
Annis Bay
Caldwell
POWELL
PROVINCIAL
FOREST
Goliath Bay
Dacres Pt
Sydney I
Foley Head
Captain Island
Killam Bay
Nelson I
Egmont Pt
Egmont
Agamemnon Channel
Jervis
Wales
Reach
Princess Royal Reach
Alexander Pt
Blind Bay
NELSON
ISLAND
Hidden Basin
Green Bay
West L
Kelly I
Billings Bay
Strawberry It
Cockburn Bay
Chackchack L
Cape Cockburn
Quarry Bay
Kearney Pt
Nelson Rk
Hodgson Is
Irvines Landing
Pearson I
Pender Har
Moore Pt
Francis Pt
Whitestone Is
Bargain Bay
Harness I
Beaver I
Madeira Park
Garden Bay
Kleindale
Sechelt
Peninsula
Sakinaw
Lake
Ruby L
Ambrose L
Skookum I
Sechelt
Narrows
Highland
Sockeye Pt
Cawley Pt
Storm Bay
Kunechin Pt
SALMON
SECHELT
RANGE
PENINSULA
Halfway Islet
Skaiakos Pt
Nine Mile Pt
MOUNT
RICHARDSON
Tuwanek Pt
Piper Pt
Carlson Pt
Four Mile Pt
Porpoise Bay
McNaughton Pt
Secret Cove
Turnagain
Halfmoon Bay
Welcome Passage
Epsom Pt
North
Thormanby I
Lemberg Pt
Buccaneer Bay
South
Thormanby
Island
Bertha I
Dennis Hd
Merry
Reception Pt
Sargeant Bay
Sechelt
Selma
Park
Trail Bay
Trail Is
Wilson Creek
Mission Pt
STRAIT
NEW WESTMINSTER LAND DISTRICT
MT
SHEPHERD
MT
DICK
Anderson Bay
Jervis I
Paul I
Jedediah I
Bond I
Bull I
Circle I
Sheer I
Upwood Pt
Telephone
Cable
Bull Passage
ISLAND
Boat Cove
Squitty Bay
Young Pt
Jenkins I
Seal Reef
Sangster I

NAME OF STREAM SAKINAW LAKE SYSTEM

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH N of Pender Hr., S of Agamemnon Channel - New Westminster Dist. POSITION 49 124 NE

LENGTH 5 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____
SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Fish ladder at the mouth.
- Ruby Creek, flowing into the head of Sakinaw Lake, (at 5 mi.) is impassable due to the steep gradient. It is recommended that the obstructions be removed to permit fish passage.

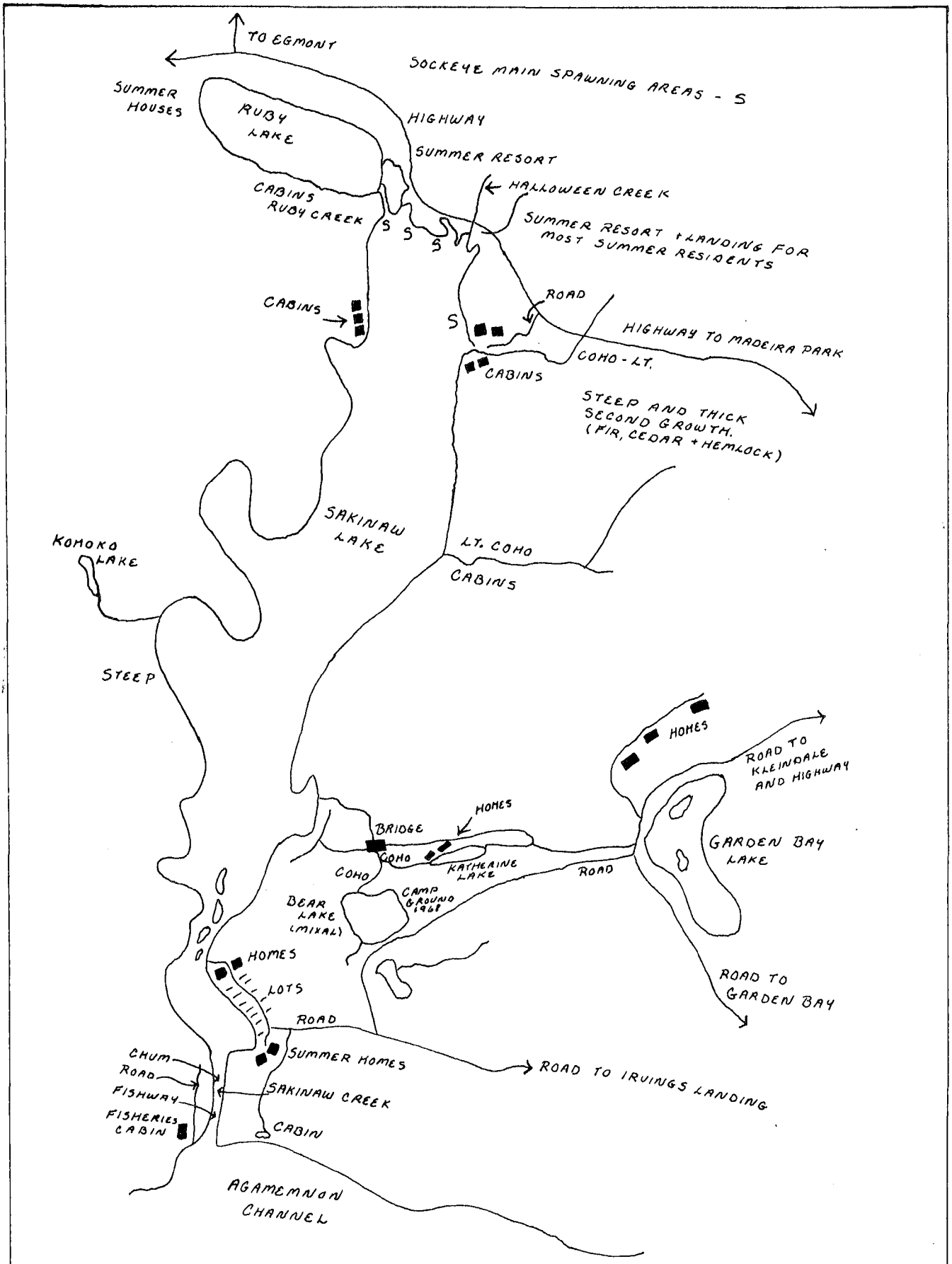
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	lakeshore at feeder creek mouths, upwelling areas
CHINOOK	
COHO	feeder streams - Katherine Lake and Mixal Lake
CHUM	in outfall and some creek mouths
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

- A study to find whether it would be feasible to use the Sakinaw & Ruby Lake system for hatchery propogation of chinooks and coho was conducted in 1970. It was concluded that this would not be feasible.
- A small stream at the lakehead was made into a spawning channel by adding concrete baffles. This project was found to be highly successful as the flow of the stream slowed down and coho spawning in the area doubled. This project was done in conjunction with the Fish & Wildlife Officer. (1973)
- A fish counter at the ladder would be an asset, as fish are difficult to locate once inside the lake. (1970)

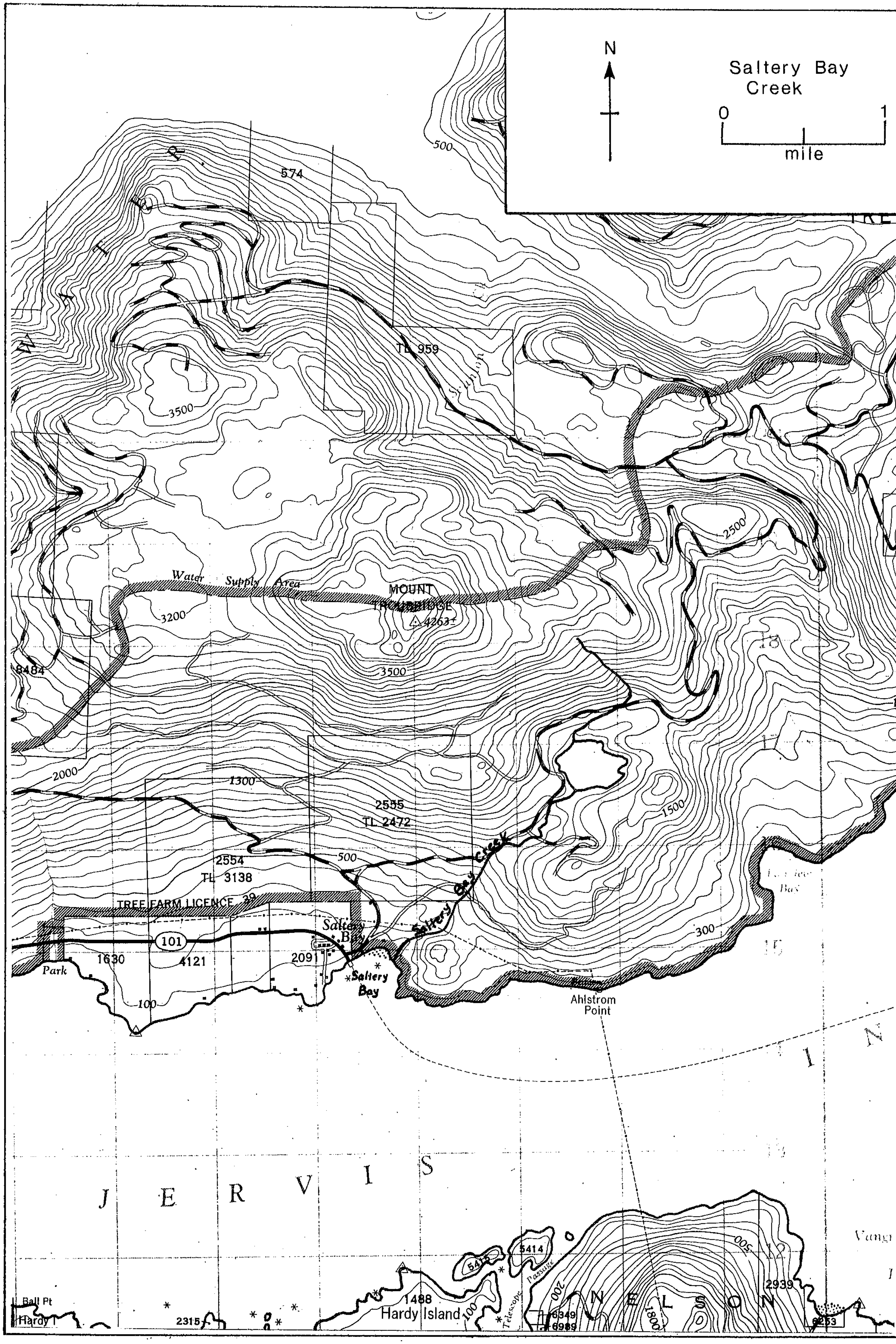


SKETCH OF SAKINAW LAKE, 1968

ESCAPEMENT RECORD FOR SAKINAW LAKE SYSTEM

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947	3500		1500	1500		
48						
49	3931		1500	3500		
50	3500		400	3500		
51	3500		750	1500		
52	6222		750	1500		
53	1131		750	3500		
54	4143		750	1500		25
55	5079		1500	750		
56	2150		750	750		
57	4300		1500	1500		
58	4250		400	750		
59	13000		400	1500		
60	4500		1500	1500		
61	750		3500	3500		
62	3500		1500	1500		
63	7500		3500	400		25
64	3500		7500	750		25
65	750		1500	200		25
66	3500		7500	75		25
67	6000		4000	100		
68	14000		5000	300		100
69	1200		5000	1000		
70	5000		1000	100		
71	8000		600	50		
72	4500		1000	100		
73	1500		1000	200		
74	6000		1500	300		
75	16000		1200	200		
76	6000		1000	400		
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


N
Saltery Bay
Creek
0
1
mile
574
TL 959
3500
Water Supply Area
MOUNT
TROUBRIDGE
4263±
3200
3500
2500
2000
1300
2555
TL 2472
1500
2554
TL 3138
500
TREE FARM LICENCE 39
Saltery
Bay
Saltery Bay Creek
101
1630
4121
2091
Park
Saltery
Bay
300
100
Ahlstrom
Point
J E R V I S
5414
1488
Hardy Island
Ball Pt
Hardy I
2315
6349
6989
N E L S O N
2939
Telescope Passage
Vang

NAME OF STREAM SALTERY BAY CREEK (Park & Bishop Creek)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Jervis Inlet, N of Nelson Island - New Westminster Dist. POSITION 49 124 NE

LENGTH 0.5 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

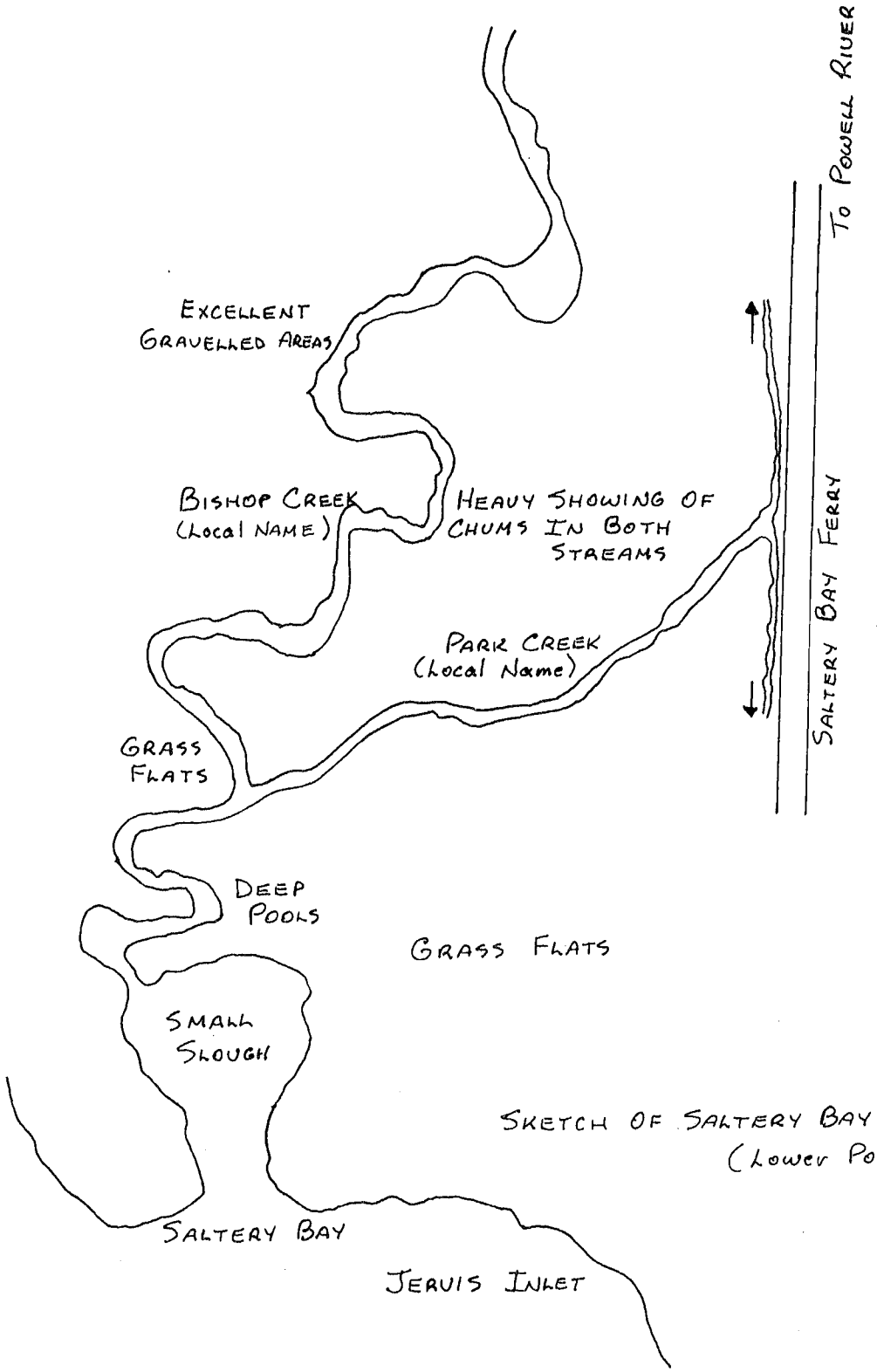
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	throughout
CHUM	throughout
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS:

- Two small consistent salmon producing streams with fine stretches of gravel. (1967)
- For their size, these streams are two of the best chum producers in the whole sub-district. The stream beds are usually very crowded. (1963)
- The chum in these streams usually run late: from Oct. - Dec. (1969)
- Molestation is a problem, but it is kept under control by concerned citizens who conduct daily patrols. (1974)

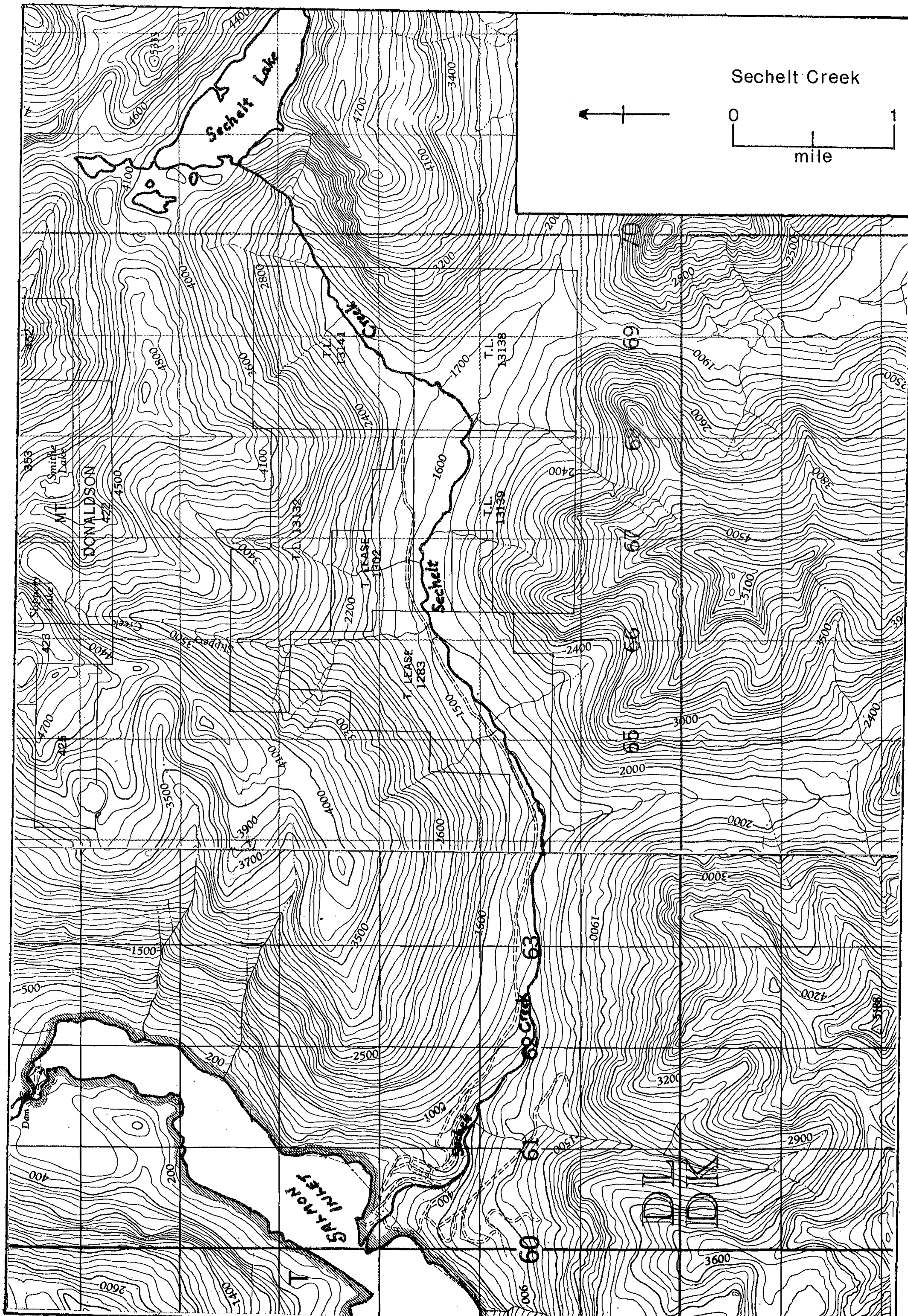


SKETCH OF SALTERY BAY CREEKS, 1968
(Lower Portion)

ESCAPEMENT RECORD FOR SALTERY BAY CREEK (Park & Bishop Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			75	3500		
48						
49				7500		
50			N/O	7500		
51				3500		
52			25	1500		
53			75	7500		
54			25	7500		
55			75	1500		
56			25	1500		
57			25	7500		
58			25	7500		
59			25	3500		
60			25	35000		
61			25	15000		
62			200	7500		
63			75	7500		
64			75	7500		
65			75	7500		
66			25	7500		
67			40	5000		
68			20	15000		
69			50	18000		
70			100	16000		
71			60	7000		
72			20	8000		
73			50	14000		
74			200	9000		
75			20	8000		
76			19	4400		
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


Sechelt Creek
0
1
mile
Sechelt Lake
Creek
Sechelt
T.L. 13141
T.L. 13138
T.L. 13139
T.L. 13132
T. LEASE 1302
T. LEASE 1283
MT DONALDSON
Smith Lake
Slippery Lake
Slippery Creek
SALMON INLET
Dam
DL
DK

NAME OF STREAM SECHELT CREEK

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows N & NW into head of Salmon Inlet - New Westminster Dist. POSITION 49 123 NW

LENGTH 1 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Impassable falls at 1 mi.

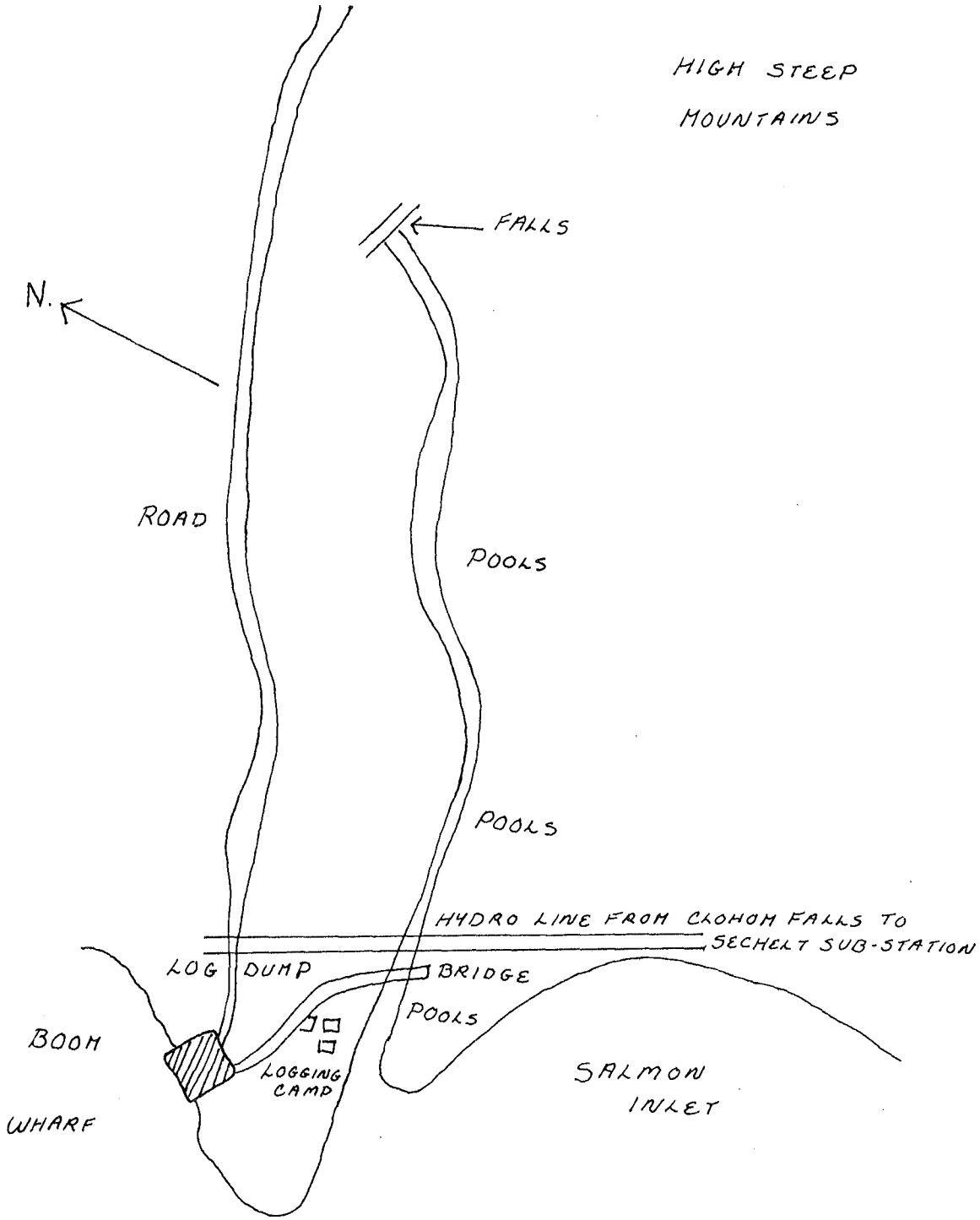
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	throughout
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

- This is the only stream in Salmon Inlet that has spawners. (1969)
- There is little spawning gravel in the stream. (1969)
- The watershed is surrounded by steep mountainous terrain. (1968)
- In 1972, it was recommended that the stream be taken off the spawning records unless the run increased.

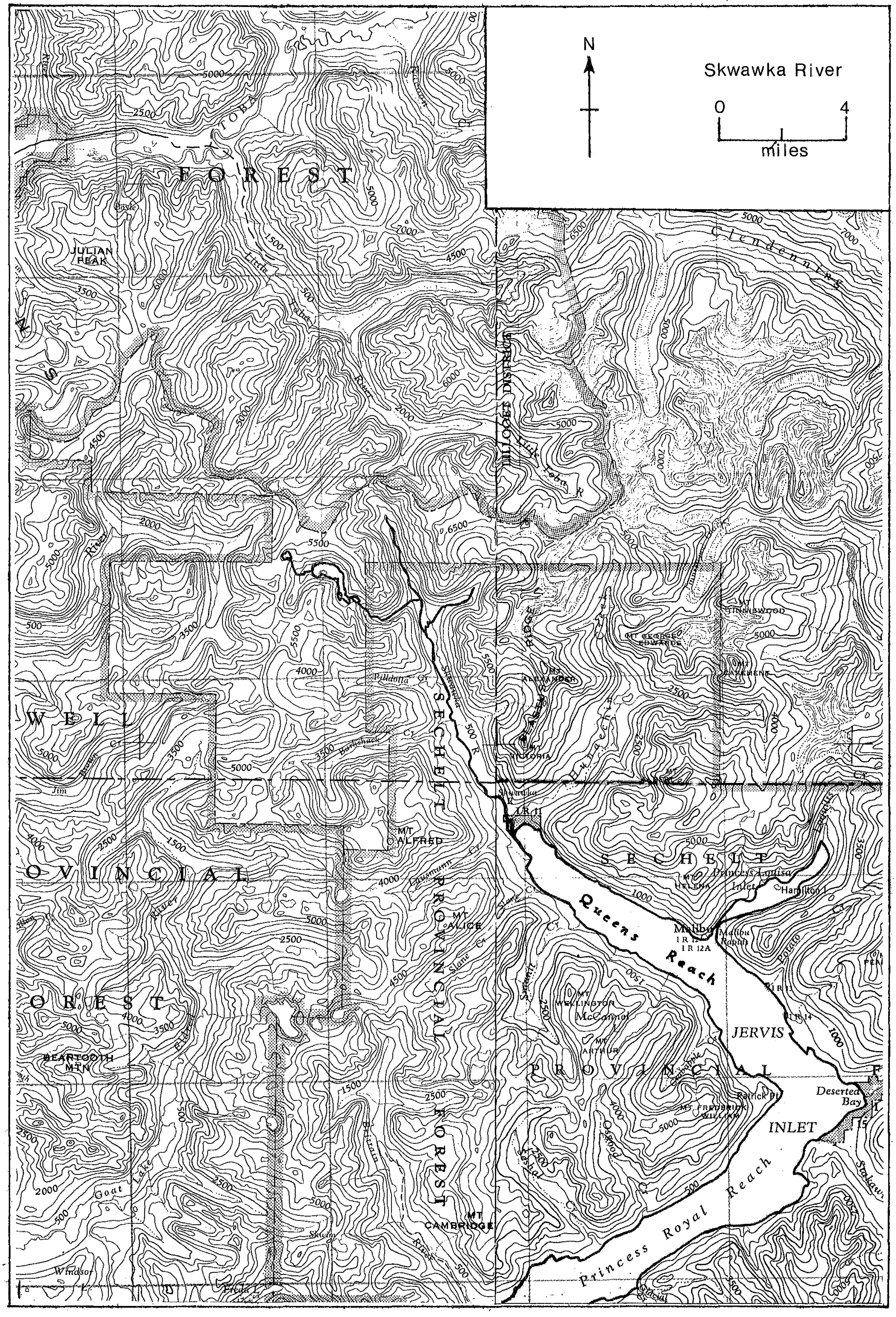


SKETCH OF SECHELT CREEK, 1967
(LOWER PORTION)

ESCAPEMENT RECORD FOR SECHELT CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947				3500	3500	
48				1500	200	
49				1500	750	
50				750	200	
51				1500	400	
52				750	75	
53				750	400	
54				200	75	
55				75	1500	
56				200	25	
57				750	400	
58				200		
59				1500	200	
60				200		
61				200	1500	25
62			25	75		
63			N/O	N/O	200	
64			N/O	75	N/O	25
65			25	25	N/O	25
66			25	25	N/O	25
67			50	N/O	200	
68			50	100	N/O	50
69			50	100	100	50
70				75		
71			N/O	N/O	N/O	
72				10		
73				N/O		
74						
75			N/O	N/O	3000	N/O
76			N/O	6	N/O	N/O
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


N
Skwawka River
0
4
miles
FOREST
JULIAN PEAK
LILLOOET DISTRICT
Little Toba R
Clendennings
SECHELT PROVINCIAL FOREST
MT TINNISWOOD
MT GEORGE EDWARDS
MT ALEXANDER
MT VICTORIA
MT ALFRED
MT ALICE
Skwawka R
I R 11
SECHELT
Princess Louisa Inlet
Hamilton I
Malibu
Malibu Rapids
Queens Reach
MT WELLINGTON
McCannel
MT ARTHUR
JERVIS
PROVINCIAL
Patrick Pt
Deserted Bay
MT FREDERICK WILLIAM
INLET
Princess Royal Reach
OVINCIAL
ORESTS
BEARTOOTH MTN
MT CAMBRIDGE
Goat Lake
Windsor

NAME OF STREAM SKWAWKA RIVER (Hunae-Chin, Hunacchin River)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows S into Queen's Reach, N end of Jervis Inlet - New Westminster Dist. POSITION 49 122 SW

LENGTH 11 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Log jams 2 mi. from mouth and impassable falls at 11 mi.

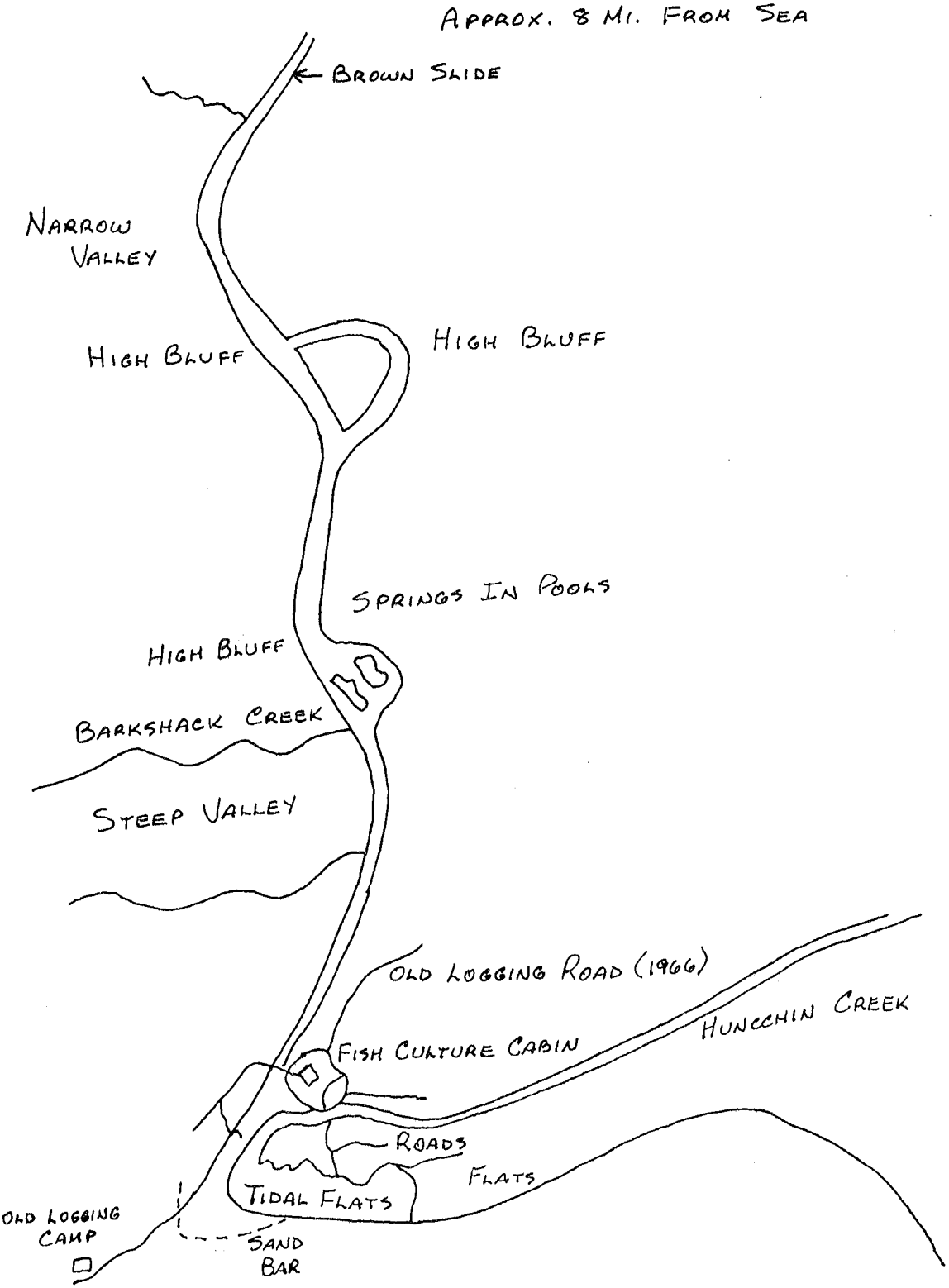
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	4 mi. - 11 mi.
CHUM	3 mi. - 7 mi.
PINK (ODD YR)	up to 3 mi.
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

- MacMillan Bloedel Ltd. began logging in this watershed in 1970.
- Most of the green belts were removed in 1972, when logging was extended to the upper side of Barkshack Creek. There was also extensive logging in the Junacchin Valley which is not salmon bearing due to the high steep run off.
- The lower end is silting badly due to run off from Glacier Cr. (1974)

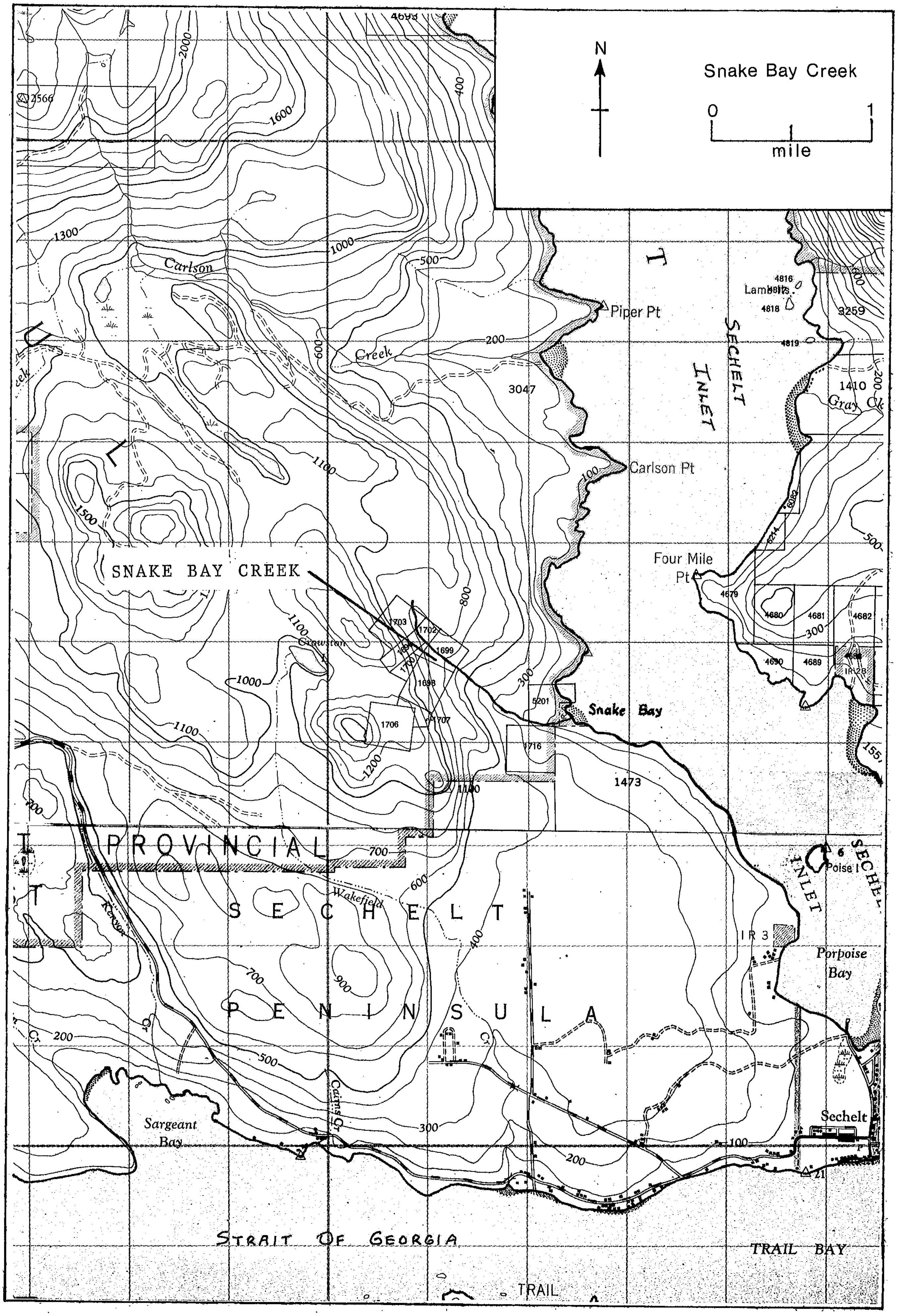


SKETCH OF SKWAWKA RIVER, 1968
(LOWER PORTION)

ESCAPEMENT RECORD FOR SKWAWKA RIVER (Silawka River)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			3500	35000	100000+	
48			15000	15000	750	
49			3500	7500	7500	
50			2	35	N/O	
51			1500	7500	100000+	
52			400	75		
53						
54			75	75		
55			1500	1500	35000	
56			750	1500		
57			750	1500	75000	
58			400	1500		
59			750	1500	100000+	
60			1500	3500		
61			1500	1500	100000+	
62		75	750	750	1500	
63		25	3500	400	200000	75
64		25	3500	1500	3500	75
65		50	1500	75	35000	75
66		N/O	7500	400	25	75
67		100	2000	50	22000	UNK
68		50	3000	3000	200	
69		50	7000	3000	22000	
70		50	2500	6500		
71			3000	3000	20000	
72			1500	8000		
73			3000	1000	5000	
74			8000	3000		
75		N/O	5000	200	12.000	N/O
76		N/O	3000	250	N/O	N/O
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS Lower 6 miles are subject to flash flooding and extreme silting from logging. (1975)


N
Snake Bay Creek
0
1
mile
SNAKE BAY CREEK
Carlson
Creek
Piper Pt
Carlson Pt
Four Mile Pt
Snake Bay
SECHELT INLET
Lamb Is
Gray Ck
Crowston
PROVINCIAL
SECHELT PENINSULA
Wakefield
Kenyon
Cairns Cr
Sargeant Bay
Porpoise Bay
Poise I
Sechelt
STRAIT OF GEORGIA
TRAIL BAY
TRAIL

NAME OF STREAM SNAKE BAY CREEK

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flowing into Sechelt Inlet - New Westminster Dist.

POSITION 49 123 NW

LENGTH 1 MI. WIDTH FT. DRAINAGE SQ. MI.

COMPOSITION: BEDROCK BOULDER COARSE FINE

SILT & SAND UNCLASSIFIED

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA SQ. YD. SPAWNING AREA SQ. YD.

DISCHARGE CFS MAX MIN

TEMPERATURE

BARRIERS OR POINTS OF DIFFICULT ASCENT

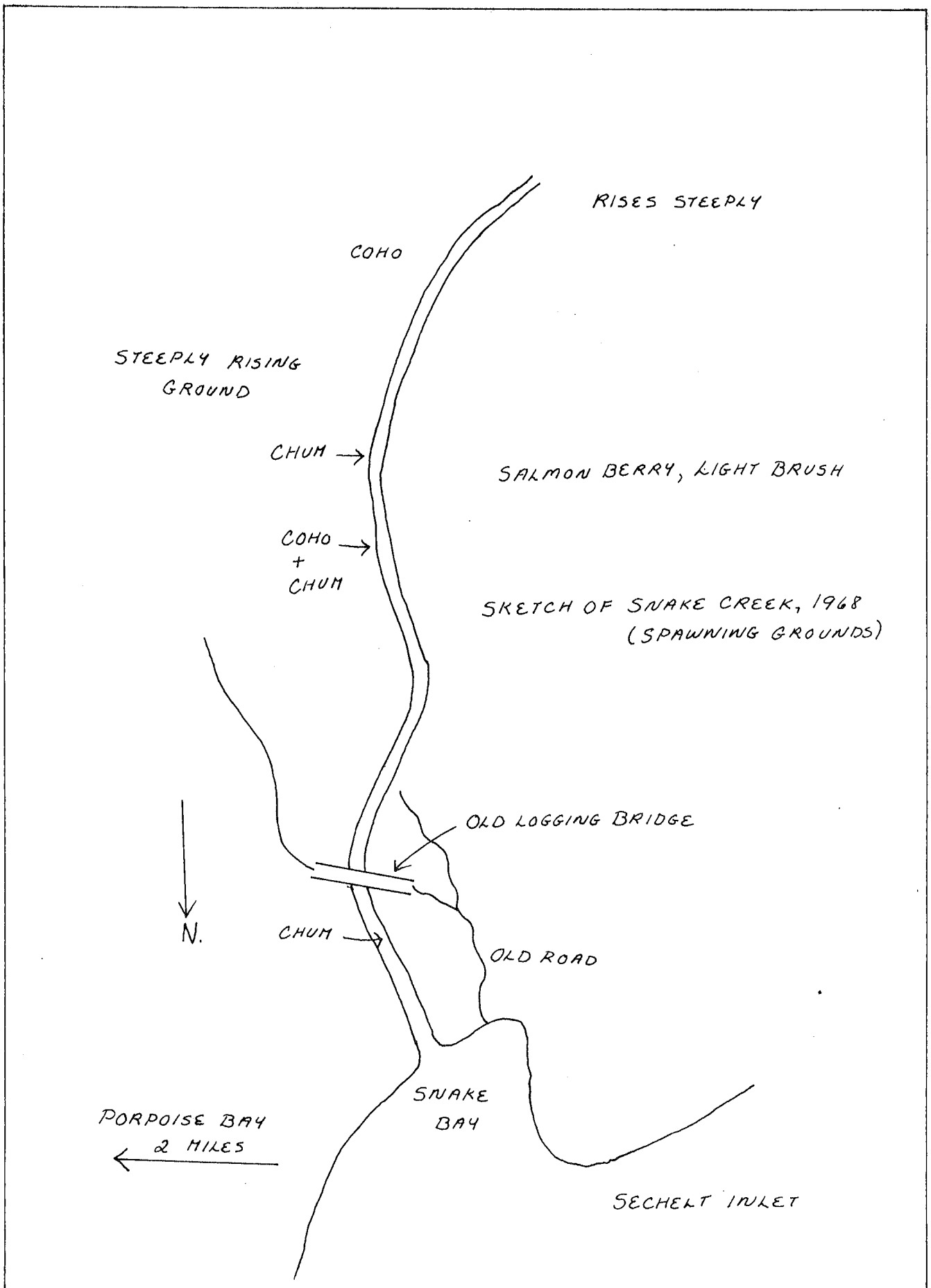
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	scattered over lower 1 mi.
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

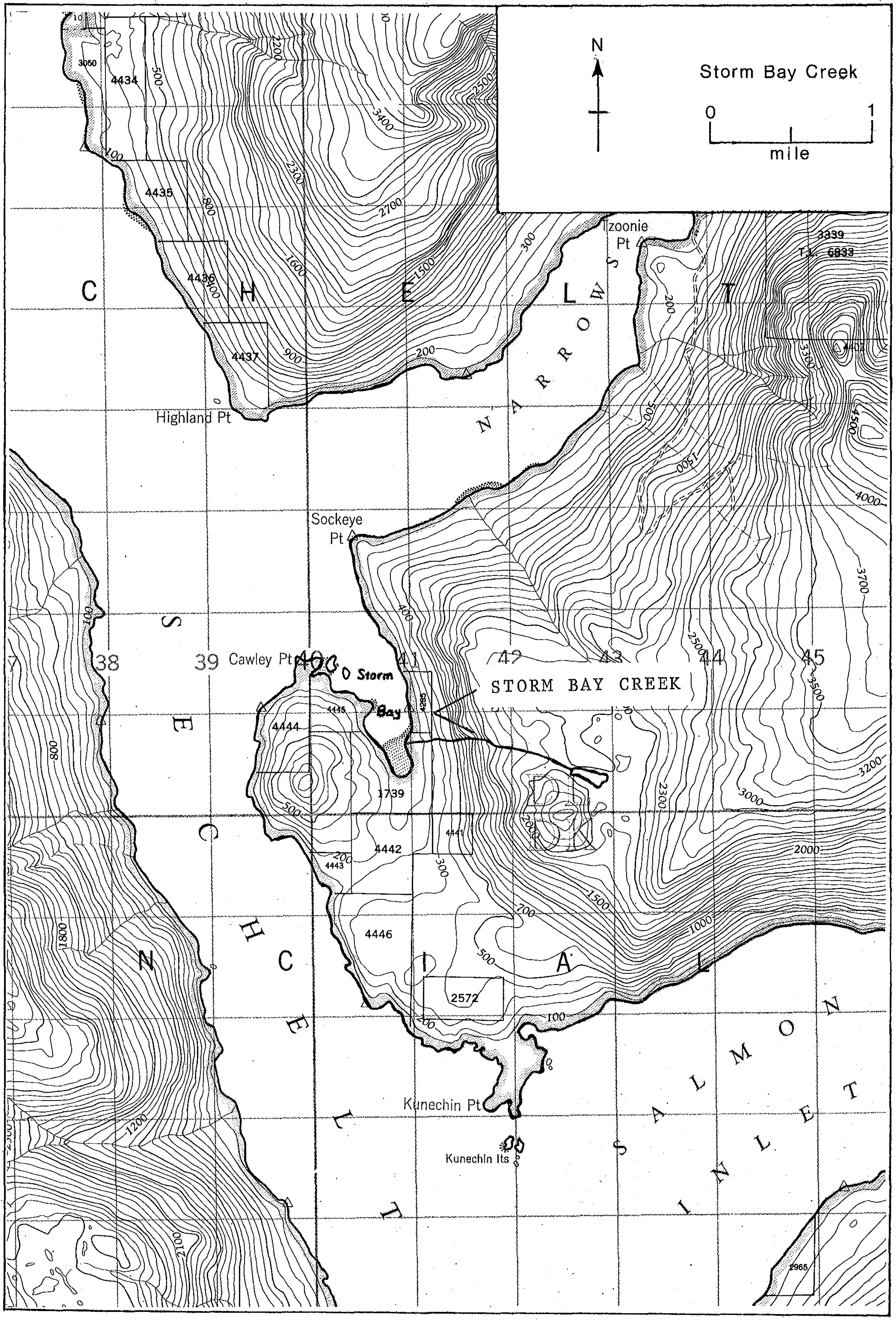
- A small stream with good spawning gravel. (1969)
- The stream bed is rocky with pools for the first .5 mi. After 2.5 mi. the stream rises steeply into a canyon. (1968)


RISES STEEPLY
COHO
STEEPLY RISING GROUND
CHUM
SALMON BERRY, LIGHT BRUSH
COHO + CHUM
SKETCH OF SNAKE CREEK, 1968
(SPAWNING GROUNDS)
OLD LOGGING BRIDGE
N.
CHUM
OLD ROAD
SNAKE BAY
PORPOISE BAY
2 MILES
SECHELT INLET

ESCAPEMENT RECORD FOR SNAKE BAY CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			N/O	1500		
48			N/O	1500		
49			N/O	750		
50			N/O	200		
51			N/O	1500		
52			N/O	750		
53			N/O	400		
54			N/O	200		
55			N/O	200		
56			N/O	400		
57			N/O	3500		
58			N/O	3500		
59			N/O	200		
60			75	400		
61			75	400		
62			75	750		
63			750	750		
64			75	400		
65			75	75		
66			750	750		
67			50	600		
68			100	1500		
69			500	2000		
70			N/O	50		
71			N/O	12		
72			N/O	400		
73			N/O	50		
74			N/O	50		
75			N/O	50		
76			N/O	350		
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time Arr.						
Start						
Peak						
End						

REMARKS


Storm Bay Creek
0
1
mile
N
STORM BAY CREEK
Storm Bay
Highland Pt
Sockeye Pt
Cawley Pt
Tzoonie Pt
Kunechin Pt
Kunechin Its
C H E L T
NARROWS
SECHELT
SALMON
INLET
4434
4435
4436
4437
4444
4445
4285
1739
4442
4443
4441
4446
2572
2965
3339
T.L. 6833
37
38
39
40
41
42
43
44
45

NAME OF STREAM STORM BAY CREEK

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH E side of Sechelt Inlet, S of mouth of Narrows - New Westminster Dist. POSITION 49 123 NW

LENGTH 1 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT

- Impassable falls at 1 mi.

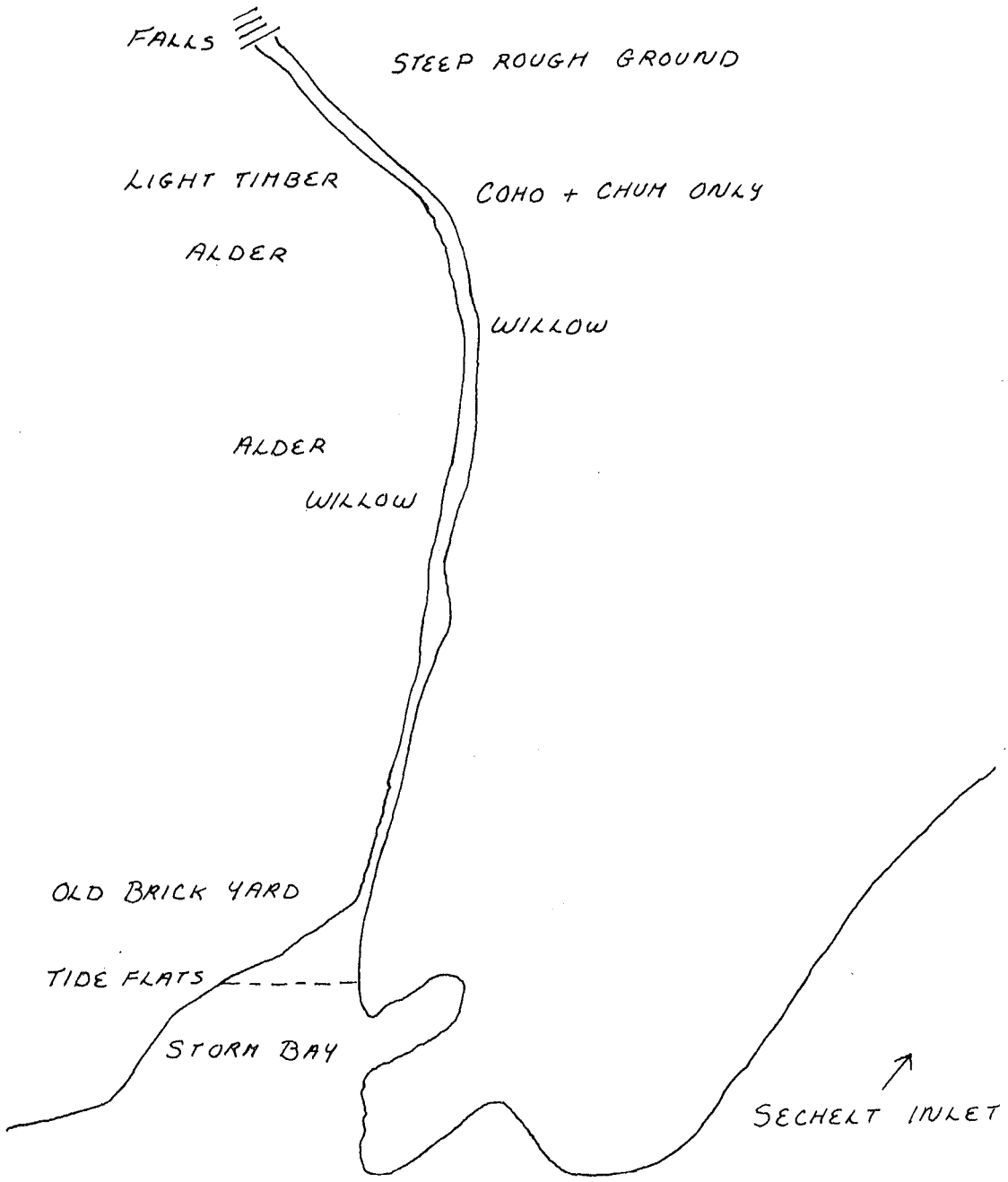
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	scattered over lower 1 mi.
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

- A small, shallow stream with low water levels in the summer. (1969)

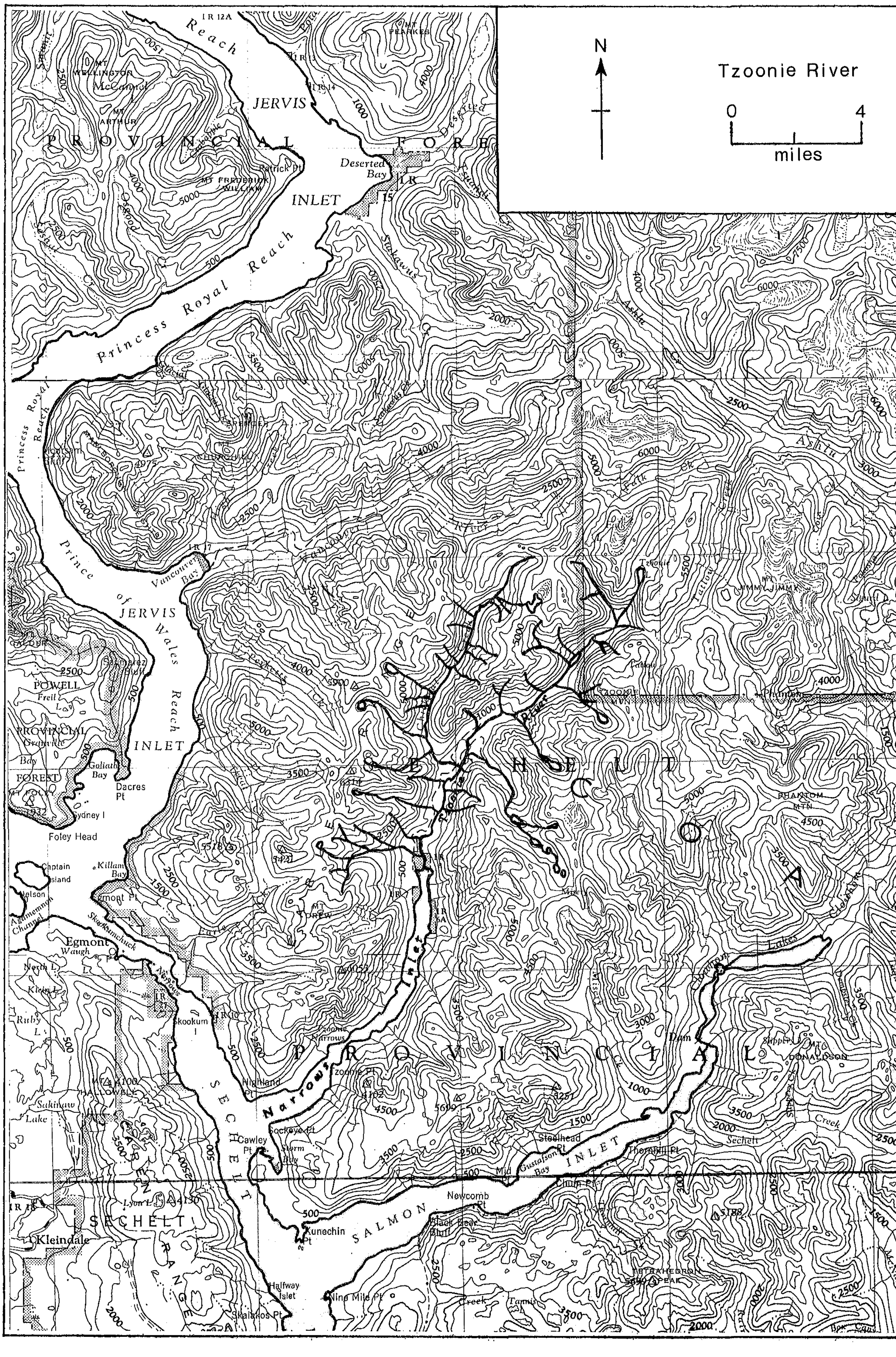


SKETCH OF STORM BAY CREEK, 1968
(LOWER PORTION)

ESCAPEMENT RECORD FOR STORM BAY CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			25	1500		
48			25	1500		
49			N/O	3500		
50			25	750		
51			75	1500		
52			25	400		
53			25	400		
54			25	75		
55			25	75		
56			25	75		
57			25	25		
58			25	25		
59			25	200		
60			75	200		
61			25	200		
62			75	400		
63			75	200		
64			25	400		
65			25	25		
66			75	75		
67			10	25		
68			100	500		
69			50	300		
70			N/O	125		
71			N/O	N/O		
72			N/O	500		
73			N/O	10		
74			50	200		
75			N/O	50		
76			12	250		
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


N
Tzoonie River
0
4
miles
JERVIS
INLET
Princess Royal Reach
Prince of Wales Reach
Deserted Bay
Patrick Pt
MT FREDERICK WILLIAM
Vancouver Bay
POWELL
PROVINCIAL
FOREST
Goliath Bay
Dacres Pt
Sydney I
Foley Head
Captain Island
Nelson
Egmont
Egmont Pt
Killam Bay
Skookum I
Highland Pt
Narrows
Tzoonie Pt
Cockeye Pt
Cawley Pt
Storm Bay
SECHELT
Kunechin Pt
SALMON
INLET
Newcomb Pt
Black Bear Bluff
Steelhead
Gustafson Bay
Thornhill Pt
Clum Pt
Halfway Islet
Nine Mile Pt
Skaiakos Pt
Kleindale
Sakinaw Lake
Ruby L
Klein L
North L
PHANTOM MTN
TZOONIE MTN
TETRAHEDRON PEAK
MT DONALDSON
Dam
Lakes
Ashlu
Creek
Sechelt
P R O V I N C I A L
S E C H E L T

NAME OF STREAM TZOONIE RIVER (Klya-Kwan River)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows SW into head of Narrows Inlet - Dist. POSITION 49 123 NW

LENGTH 11 MI. WIDTH FT. DRAINAGE SQ. MI.

COMPOSITION: BEDROCK BOULDER COARSE FINE
SILT & SAND UNCLASSIFIED

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA SQ. YD. SPAWNING AREA SQ. YD.

DISCHARGE CFS MAX MIN

TEMPERATURE

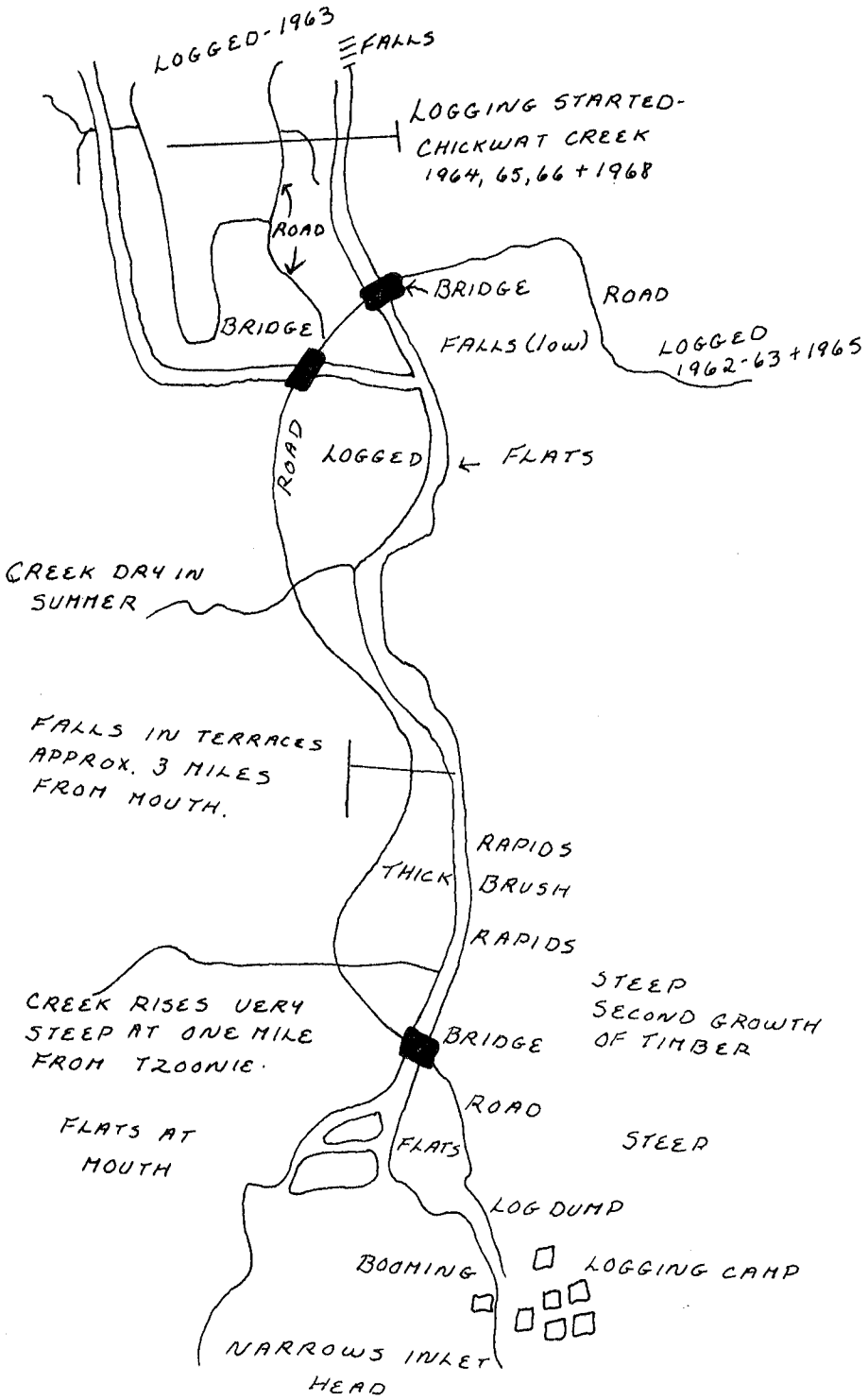
BARRIERS OR POINTS OF DIFFICULT ASCENT
- Passable falls at 5 mi. (1974)
- Passable falls at 3 mi. since stream clearance work was carried out in 1965.
- A 12' falls, 11 mi. from the mouth, was found by patrolmen in 1974.

SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:
- This is a clear and stable river. (1973)
- Logging is being carried out on the side streams. (1973)

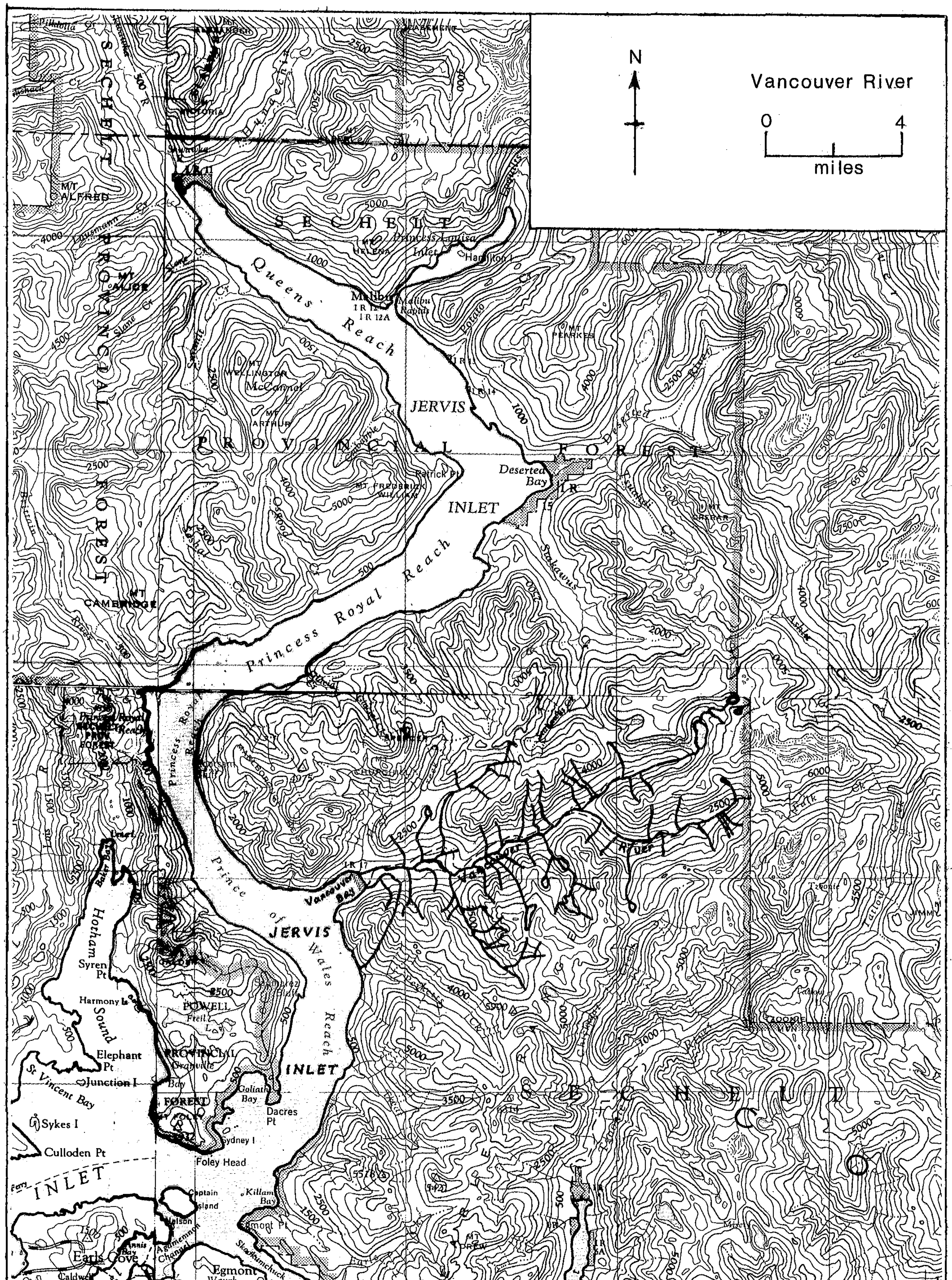


SKETCH OF TZOONIE RIVER, 1968
(LOWER PORTION)

ESCAPEMENT RECORD FOR TZOONIE RIVER (Klya-Kwan River)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947	1500	75	3500	15000	75000	75
48	750	200	3500	35000	200	75
49	1500	75	3500	35000	7500	25
50	750	75	3500	35000	25	25
51	3500	75	1500	35000	400	75
52	200	25	750	7500	25	75
53	400	75	200	3500	400	25
54	750	75	75	15000	25	25
55	750	75	3500	7500	200	
56	3500	400	3500	1500	25	
57	3500	75	3500	15000	3500	
58	3500	25	7500	15000	25	
59	7500	25	3500	35000	200	
60	750	N/O	3500	35000		
61	1500		3500	15000	7500	750
62	1500	N/O	7500	15000	75	75
63	3500	25	7500	7500	3500	75
64	3500	25	7500	15000	N/O	200
65	1500	N/O	3500	3500	750	200
66	3500	N/O	7500	7500	N/O	200
67	4000	N/O	3000	5000	1500	200
68	6000	50	10000	20000	N/O	300
69	2500	50	5000	21000	2500	200
70			2500	1200		
71			3000	11000	1500	
72			1000	12000		
73			2000	11000	30	
74	N/O	N/O	5000	25000		
75	N/O	N/O	N/O	11000	50	N/O
76	N/O	N/O	1000	18500	N/O	N/O
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


N
Vancouver River
0
4
miles
SECHELT
PROVINCIAL FOREST
Princess Louisa Inlet
Queens Reach
JERVIS INLET
Princess Royal Reach
Deserted Bay
Malibu
MT ALFRED
MT ALICE
MT WELLINGTON
MT ARTHUR
MT FREDERICK WILLIAM
MT CAMBRIDGE
MT PEARKES
Patrick Pt
Vancouver Bay
Prince of Wales Reach
JERVIS
Hotham Sound
Syren Pt
Harmony Is
Elephant Pt
Junction I
St Vincent Bay
Sykes I
Culloden Pt
INLET
Captain Island
Nelson I
Earls Cove
Agamemnon Channel
Egmont
Egmont Pt
Killam Bay
Skookumchuck Narrows
Goliath Bay
Dacres Pt
Sydney I
Foley Head
POWELL
PROVINCIAL
FOREST
Granville Bay
Saumarez Bluff
Skookum I
Sechelt Inlet
SECHELT
PROVINCIAL

NAME OF STREAM VANCOUVER RIVER (Skwaw-Kwim River)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows W into Vancouver Bay, Jervis Inlet, Prince of Wales Reach - New Westminster Dist. POSITION 49 123 NW

LENGTH 3 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

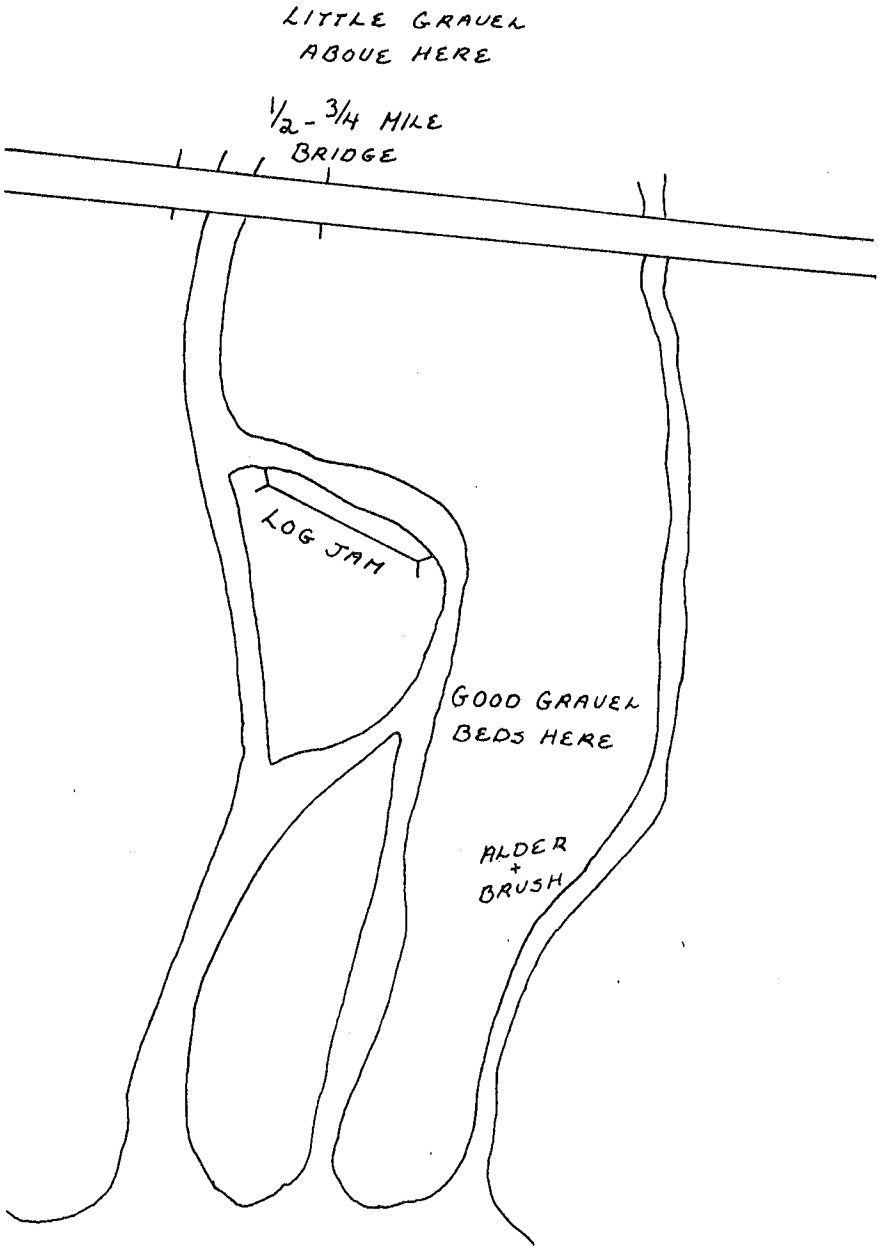
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	mainly in canyon
CHUM	any available gravel beds up to 2 - 3 mi.
PINK (ODD YR)	any available gravel beds up to 2 - 3 mi.
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS:

- Because of the logged off valley and high gradient, this stream becomes a raging torrent during any run off or heavy rain period. (1969)
- Vancouver River is gradually recovering from past extensive logging operations. (1972)
- Due to past heavy erosion of gravel bars, the river's gravel is poor. (1974)
- As most of the gravel has been washed down to the mouth, it may be feasible to cut some spawning channels into the bar. (1970)

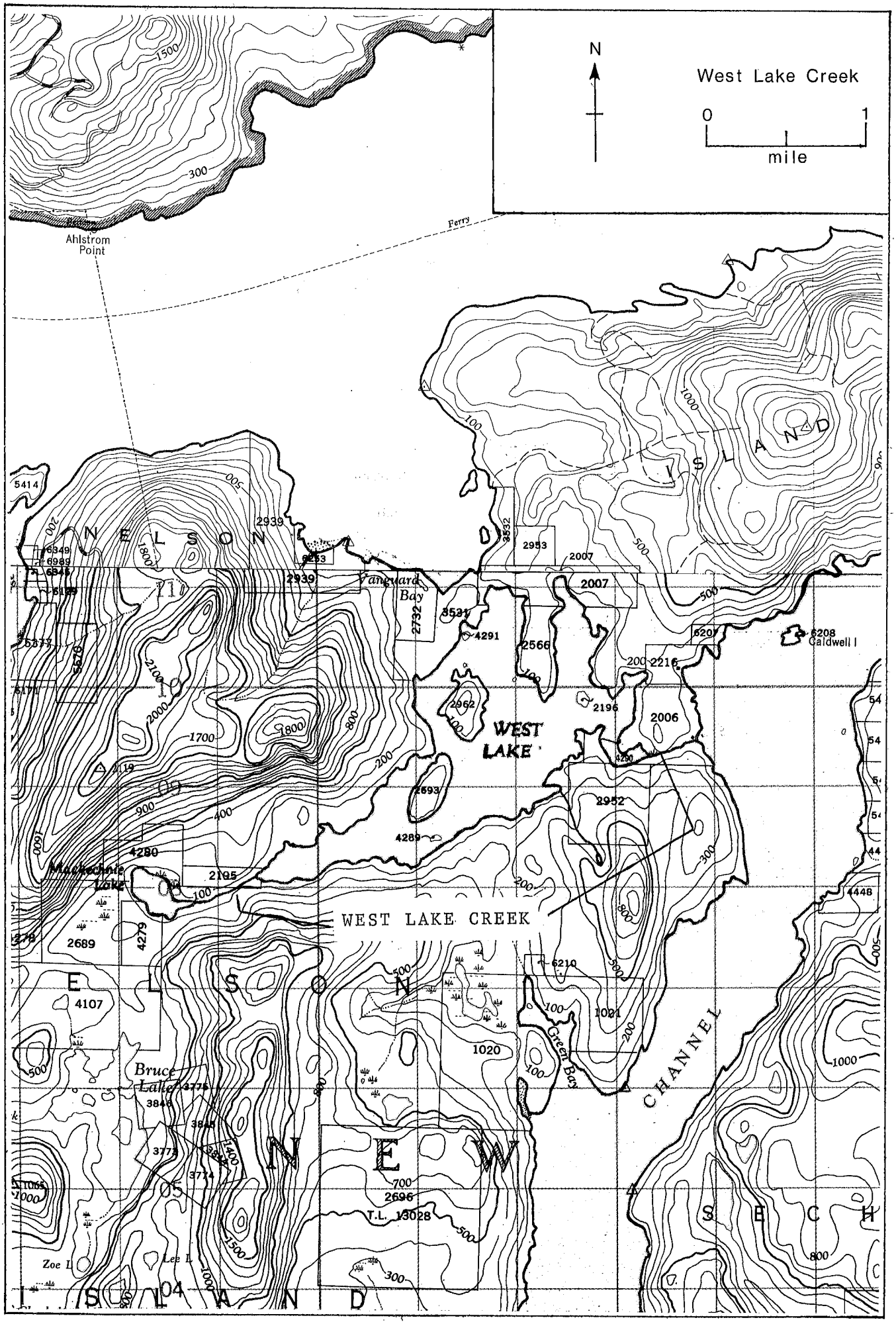


SKETCH OF VANCOUVER RIVER, 1970
(LOWER PORTION)

ESCAPEMENT RECORD FOR VANCOUVER RIVER (Skaw-Kwin River)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			750	3500	15000	
48		25	1500	3500		75
49			750	7500	3500	200
50			75	3500		75
51			1500	7500	1500	
52			75	3500	75	UNK
53			200	3500	1500	
54			75	1500	75	
55			400	1500	3500	200
56			400	3500	25	
57			200	7500	3500	
58			1500	7500		
59			200	1500	750	
60			1500	3500		
61			1500	3500	3500	400
62			750	3500		200
63			750	75	750	200
64			750	75	N/O	75
65			200	25	N/O	75
66			75	400	N/O	75
67			10	100	10	100
68			200	2200		200
69			100	1000	2500	200
70			100	1200		
71			100	500	1000	
72			100	2500		
73			50	8000	500	
74			100	4500		
75			3000	200	200	N/O
76			3000	500	N/O	N/O
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


N
West Lake Creek
0
1
mile
Ahlstrom Point
Ferry
NELSON ISLAND
Vanguard Bay
WEST LAKE
WEST LAKE CREEK
Mackenzie Lake
Bruce Lake
Zoe L
Lee L
Green Bay
CHANNEL
Caldwell I
T.L. 13028
05
04

NAME OF STREAM WEST LAKE CREEK

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows NW into Agamemnon Channel - New Westminster Dist. POSITION 49 124 NE

LENGTH 4 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

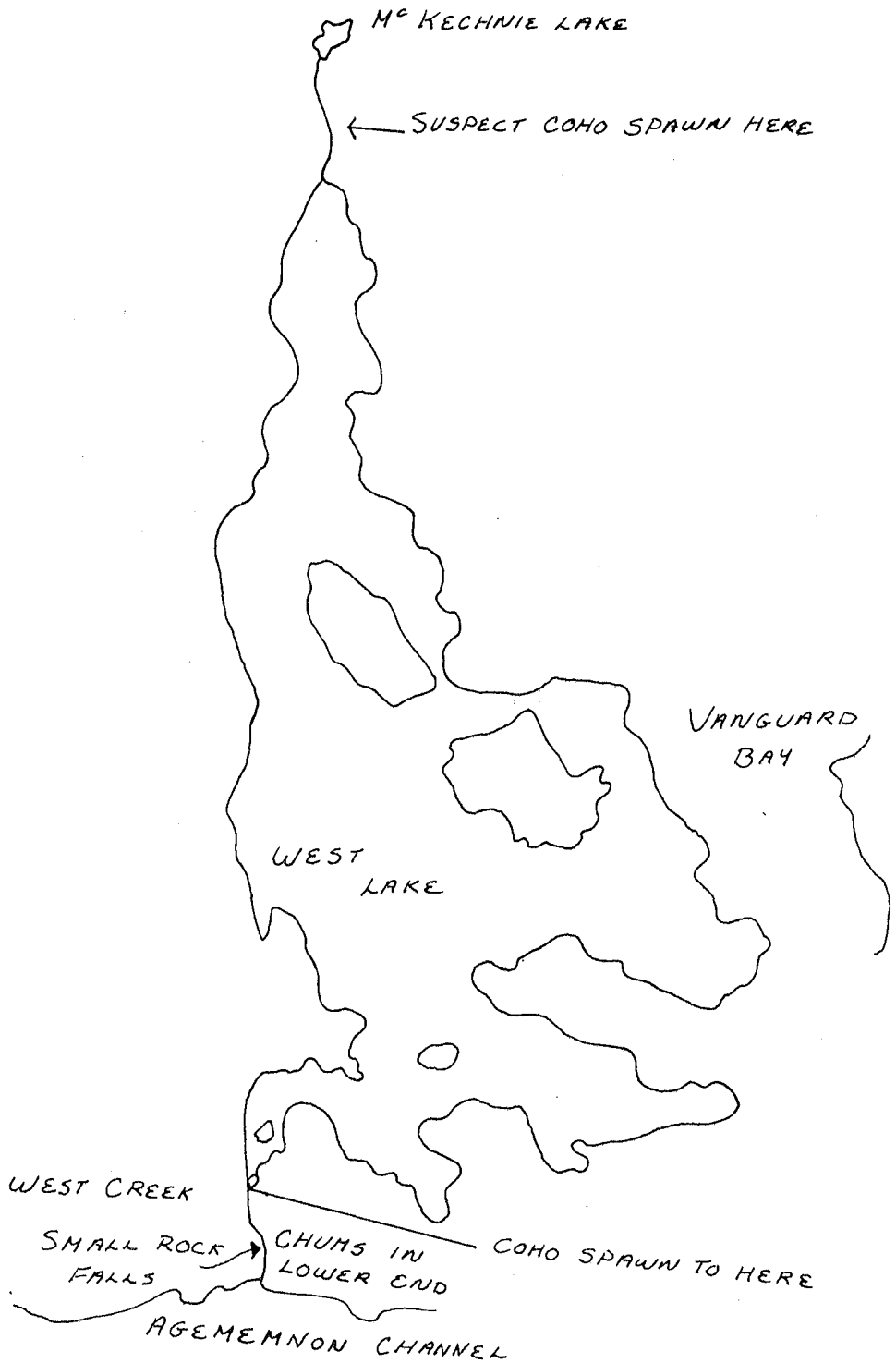
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	above cataract and into MacKechnie Creek
CHUM	below cataract at 100 yds.
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS:

- There is a good potential for coho at the west end of the lake. (1973)
- A general clean-out of West Creek was undertaken in 1971.



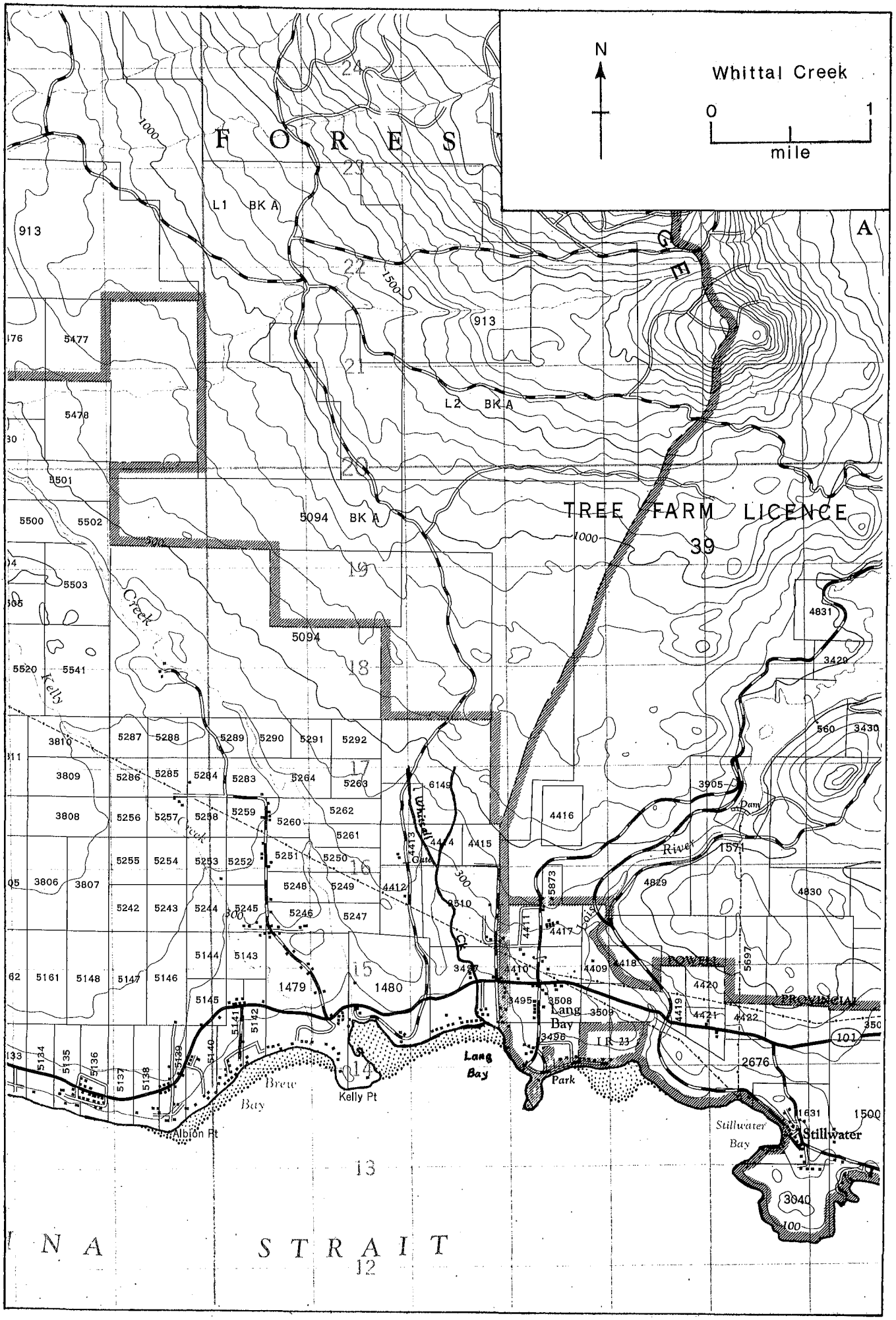
SKETCH OF WEST LAKE CREEK, 1970

(SPAWNING GROUNDS)

ESCAPEMENT RECORD FOR WEST LAKE CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69			NO RECORDS PRIOR TO 1970			
70			100	200		
71	500		300	200		
72			300	500		
73			200	400		
74	N/O		200	300		
75	N/O		200	300		
76	N/O		100	400		
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS


N
Whittal Creek
0
1
mile
F O R E S
L1 BK A
L2 BK A
5094 BK A
TREE FARM LICENCE
39
Kelly Creek
Whittal Creek
Dam
River
Lang Bay
Park
Brew Bay
Albion Pt
Kelly Pt
Stillwater
Stillwater Bay
POWELL
PROVINCIAL
I R 23
N A
S T R A I T

NAME OF STREAM WHITTAL CREEK (Simpkins, Maitland Creek)

CONSERVATION DISTRICT 3 STATISTICAL AREA 16

LOCATION OF MOUTH Flows S into Lang Bay, Malaspina Str. - New Westminster Dist. POSITION 49 124 NE

LENGTH 2 MI. WIDTH _____ FT. DRAINAGE _____ SQ. MI.

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

GRADIENT: FALL IN FT/000	
0.0 - 2.5	
2.5 - 5.0	
5.0 - 7.5	
7.5 - 10.0	
> 10.0	

WETTED AREA _____ SQ. YD. SPAWNING AREA _____ SQ. YD.

DISCHARGE _____ CFS MAX _____ MIN _____

TEMPERATURE _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	mainly below highway
CHUM	mainly below highway
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS:

- Good water and spawning conditions. (1973)
- One abandoned beaver dam and one man made dam no longer in use, were removed in 1971 to permit freer passage of salmon.

ESCAPEMENT RECORD FOR WHITTAL CREEK (Simpkins or Maitland Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947				750		
48				750		
49				750		
50						
51				400		
52				400		
53				400		
54						
55				200		
56			200	200		
57			25	400		
58			25	400		
59			25	250		
60			25	200		
61			25	200		
62			25	200		
63			25	200		
64			25	400		
65			25	400		
66			75	750		
67			N/O	100		
68			60	800		
69			100	1000		
70			150	600		
71			100	300		
72			140	1200		N/O
73			50	300		
74			250	1445		
75			150	1500		
76			45	294		
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Start						
Peak						
End						

REMARKS

METRIC EQUIVALENTS

Length

cm.	=	.3937	in.
meter	=	3.28	ft.
meter	=	1.094	yd.
kilometer	=	.621	mi.
inch	=	2.54	cm.
foot	=	.3048	m.
yard	=	.9144	m.
mile	=	1.61	km.

Area

sq. cm.	=	.1550	sq. in.
sq. m.	=	10.76	sq. ft.
sq. m.	=	1.196	sq. yd.
sq. km.	=	.386	sq. mi.
sq. in.	=	6.45	sq. cm.
sq. ft.	=	.0929	sq. m.
sq. yd.	=	.836	sq. m.
sq. mi.	=	2.59	sq. km.
acre	=	.405	ha.
hectare	=	2.47	acres
acre	=	43560	sq. ft.

Volume

cu. cm.	=	.061	cu. in.
cu. m.	=	35.315	cu. ft.
cu. m.	=	1.308	cu. yd.
cu. in.	=	16.38	cu. cm.
cu. ft.	=	.028	cu. m.
cu. yd.	=	.7645	cu. m.

Capacity

liter	=	.0353	cu. ft.
liter	=	.21998	gal. (Br.)
liter	=	61.023	cu. in.
cu. in.	=	.0164	l.
cu. ft.	=	28.32	l.
gallon	=	4.5459	l. (Br.)

Weight

gram	=	15.432	grs.
gram	=	.0353	oz.
kilogram	=	2.2046	lbs.
kilogram	=	.0011	ton (sht)
met. ton	=	1.1025	ton (sht)
grain	=	.0648	g.

ounce	=	28.35	g.
pound	=	.454	kg.
ton (sht)	=	907.18	kg.
ton (sht)	=	.907	met. ton
ton (sht)	=	2000	lbs.

Degrees Centigrade = 5/9 (Degrees Fahr.) - 32
Degrees Fahrenheit = 9/5 (Degrees Cent.) + 32

WATER QUANTITIES AND FLOW MEASUREMENT

1 cubic foot per second (cfs) or second foot	=	373.2 gallons per min. (gpm)
1 cubic foot per second (cfs) or second foot	=	.537408 million gallons
1 second foot	=	approx. 2 acre-feet per day
1 second foot	=	86400 cubic feet per day
1 million gallons per day	=	1.86 cfs
1 acre-foot	=	43560 cubic feet or 271379 gal.
1 cubic foot of water	=	6.23 gal. and weighs 62.4 lbs.
1 cubic meter per second	=	35.31 cubic feet per second (cfs)
1 meter per second	=	3.28 feet per second
1233.5 cubic meters	=	1 acre-foot

PRELIMINARY CATALOGUE OF
SALMON STREAMS AND SPAWNING
ESCAPEMENTS OF STATISTICAL AREA 16
(PENDER HARBOUR)

ERRATA, DATA REFINEMENTS & UPDATE

Page	
v	✓Remove and insert corrected page v.
7	✓Insert N/O in 1975 coho, pink & steelhead escapement record, ✓insert 500 in 1975 chum escapement record, ✓insert 2 in 1976 coho escapement record, ✓insert 800 in 1976 chum escapement record, ✓insert N/O in 1976 pink & steelhead escapement record.
11	✓Change 1958 pink escapement from 750 to N/O, ✓insert 750 in 1959 pink escapement record, ✓insert 25 in 1962 steelhead escapement record, ✓change 1970 pink escapement from 100 to N/O, ✓insert 100 in 1971 pink escapement record, ✓insert N/O in 1975 coho & steelhead escapement record, ✓insert 25 in 1975 chum escapement record, ✓insert 50 in 1975 pink escapement record, ✓insert N/O in 1976 coho, pink & steelhead escapement record, ✓insert 50 in 1976 chum escapement record.
15	✓Insert N/O in 1975 coho & pink escapement record, ✓insert 50 in 1975 chum escapement record, ✓insert N/O in 1976 coho & pink escapement record, ✓insert 200 in 1976 chum escapement record.
18	✓Insert 20 in 1974 coho escapement record, ✓change 1974 chum escapement from 100 to 530, ✓insert 20 in 1975 coho escapement record, ✓insert 200 in 1975 chum escapement record, ✓insert N/O in 1976 coho escapement record, ✓insert 592 in 1976 chum escapement record.
22	✓Change 1973 chum escapement from 35000 to 30000, ✓insert 3000 in 1975 coho escapement record, ✓insert 15000 in 1975 chum escapement record, ✓insert 12000 in 1975 pink escapement record, ✓insert N/O in 1975 steelhead escapement record, ✓insert 2000 in 1976 coho escapement record, ✓insert 2500 in 1976 chum escapement record, ✓insert N/O in 1976 pink & steelhead escapement record.
26	✓Insert N/O in 1975 coho escapement record, ✓insert 20 in 1975 chum escapement record, ✓insert 24 in 1976 coho escapement record, ✓insert 26 in 1976 chum escapement record.

ERRATA, DATA REFINEMENTS & UPDATE (Cont'd)
STATISTICAL AREA 16

Page

30 /Change 1947 pink escapement from 150 to 750,
/insert N/O in 1970 coho, pink & steelhead escapement record,
/insert 100 in 1970 chum escapement record,
/insert 20 in 1971 coho escapement record,
/insert 20 in 1971 chum escapement record,
/insert N/O in 1971 pink & steelhead escapement record,
/insert N/O in 1973 coho, pink & steelhead escapement record,
/insert 200 in 1973 chum escapement record,
/insert 20 in 1975 coho escapement record,
/insert 100 in 1975 chum escapement record,
/insert 50 in 1975 pink escapement record,
/insert N/O in 1975 steelhead escapement record,
/insert N/O in 1976 coho, pink & steelhead escapement record,
/insert 189 in 1976 chum escapement record.

33 /Remove 1948 pink escapement,
/insert 15 in 1974 coho escapement record,
/insert 1000 in 1974 chum escapement record,
/insert 20 in 1975 coho escapement record,
/insert 1000 in 1975 chum escapement record,
/insert N/O in 1976 coho escapement record,
/insert 382 in 1976 chum escapement record.

36 /Insert 25 in 1975 coho escapement record,
/insert 700 in 1975 chum escapement record,
/insert 5 in 1976 coho escapement record,
/insert 559 in 1976 chum escapement record.

40 /Insert 200 in 1947 coho escapement record,
/insert 7500 in 1947 chum escapement record,
/insert 400 in 1948 coho escapement record,
/insert 7500 in 1948 chum escapement record,
/insert 750 in 1948 steelhead escapement record,
/insert 200 in 1975 coho escapement record,
/insert 5000 in 1975 chum escapement record,
/insert N/O in 1975 pink & steelhead escapement record,
/insert 202 in 1976 coho escapement record,
/insert 749 in 1976 chum escapement record,
/insert N/O in 1976 pink & steelhead escapement record.

43 /Insert N/O in 1975 coho escapement record,
/insert 75 in 1975 chum escapement record,
/insert N/O in 1976 coho escapement record,
/insert 176 in 1976 chum escapement record,
/insert this comment at bottom of page in remarks section:
/Hydro dam flushed out some spawn in 1976.

ERRATA, DATA REFINEMENTS & UPDATE
STATISTICAL AREA 16

Page

46 Insert 50 in 1975 coho escapement record,
insert 416 in 1975 chum escapement record,
insert 3 in 1976 coho escapement record,
insert 236 in 1976 chum escapement record.

50 Insert 200 in 1975 coho escapement record,
insert 3000 in 1975 chum escapement record,
insert 100 in 1976 coho escapement record,
insert 4000 in 1976 chum escapement record.

54 Change 1949 sockeye escapement from 3500 to 3931,
change 1952 sockeye escapement from 7500 to 6222,
insert 16000 in 1975 sockeye escapement record,
insert 1200 in 1975 coho escapement record,
insert 200 in 1975 chum escapement record,
insert 6000 in 1976 sockeye escapement record,
insert 1000 in 1976 coho escapement record,
insert 400 in 1976 chum escapement record.

58 Change 1950 coho escapement from 7500 to N/O,
change 1950 chum escapement from 3500 to 7500,
insert 20 in 1975 coho escapement record,
insert 8000 in 1975 chum escapement record,
insert 19 in 1976 coho escapement record,
insert 4400 in 1976 chum escapement record.

62 Change 1971 coho escapement from 25 to N/O,
change 1971 pink escapement from 75 to N/O,
insert N/O in 1975 coho, chum & steelhead escapement record,
insert 3000 in 1975 pink escapement record,
insert N/O in 1976 coho, pink & steelhead escapement record,
insert 6 in 1976 chum escapement record.

66 Change 1950 coho escapement from 25 to 2,
change 1950 chum escapement from 75 to 35,
insert N/O in 1975 chinook & steelhead escapement record,
insert 5000 in 1975 coho escapement record,
insert 200 in 1975 chum escapement record,
insert 12000 in 1975 pink escapement record,
insert N/O in 1976 chinook, pink & steelhead escapement record,
insert 3000 in 1976 coho escapement record,
insert 250 in 1976 chum escapement record,
insert this comment at bottom of page in remarks section:
Lower 6 miles are subject to flash flooding and extreme silting from logging. (1975)

70 Remove and insert corrected page 70.

ERRATA, DATA REFINEMENTS & UPDATE (Cont'd)
STATISTICAL AREA 16

Page

74 Change 1959 coho escapement from 200 to 25,
insert N/O in 1975 coho escapement record,
insert 50 in 1975 chum escapement record,
insert 12 in 1976 coho escapement record,
insert 250 in 1976 chum escapement record.

78 Insert 25 in 1953 steelhead escapement record,
insert N/O in 1975 sockeye, chinook, coho & steelhead escapement record,
insert 11000 in 1975 chum escapement record,
insert 50 in 1975 pink escapement record,
insert N/O in 1976 sockeye, chinook, pink & steelhead escapement record,
insert 1000 in 1976 coho escapement record,
insert 18500 in 1976 chum escapement record.

82 Insert 200 in 1949 steelhead escapement record,
change 1951 chum escapement from 1500 to 7500,
change 1951 pink escapement from 7500 to 1500,
change 1957 chum escapement from 3500 to 7500,
insert 3000 in 1975 coho escapement record,
insert 200 in 1975 chum escapement record,
insert 200 in 1975 pink escapement record,
insert N/O in 1975 steelhead escapement record,
insert 3000 in 1976 coho escapement record,
insert 500 in 1976 chum escapement record,
insert N/O in 1976 pink & steelhead escapement record.

86 Insert N/O in 1974 sockeye escapement record,
insert 200 in 1974 coho escapement record,
insert 300 in 1974 chum escapement record,
insert N/O in 1975 sockeye escapement record,
insert 200 in 1975 coho escapement record,
insert 300 in 1975 chum escapement record,
insert N/O in 1976 sockeye escapement record,
insert 100 in 1976 coho escapement record,
insert 400 in 1976 chum escapement record.

89 Insert 250 in 1974 coho escapement record,
insert 1445 in 1974 chum escapement record,
insert 150 in 1975 coho escapement record,
insert 1500 in 1975 chum escapement record,
insert 45 in 1976 coho escapement record,
insert 294 in 1976 chum escapement record.