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# Preliminary Catalogue of Salmon Streams and Spawning Escapements of Statistical Area 13 (Campbell River)

D.E. Marshall  
R.F. Brown  
V.D. Chahley  
D.G. Demontier

Pac/D-77-1

Pacific Region





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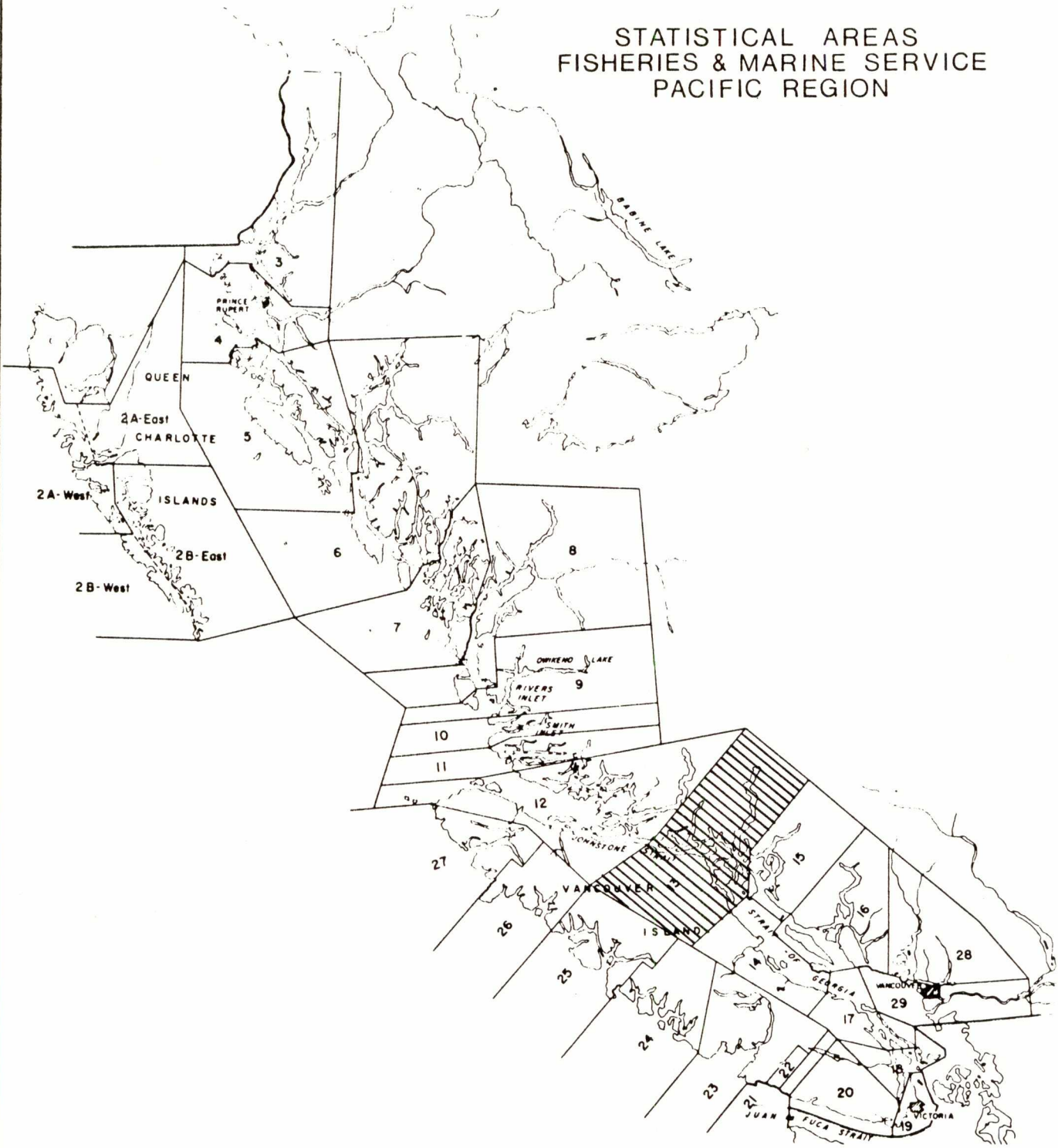
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Pacific Region

STATISTICAL AREAS  
FISHERIES & MARINE SERVICE  
PACIFIC REGION



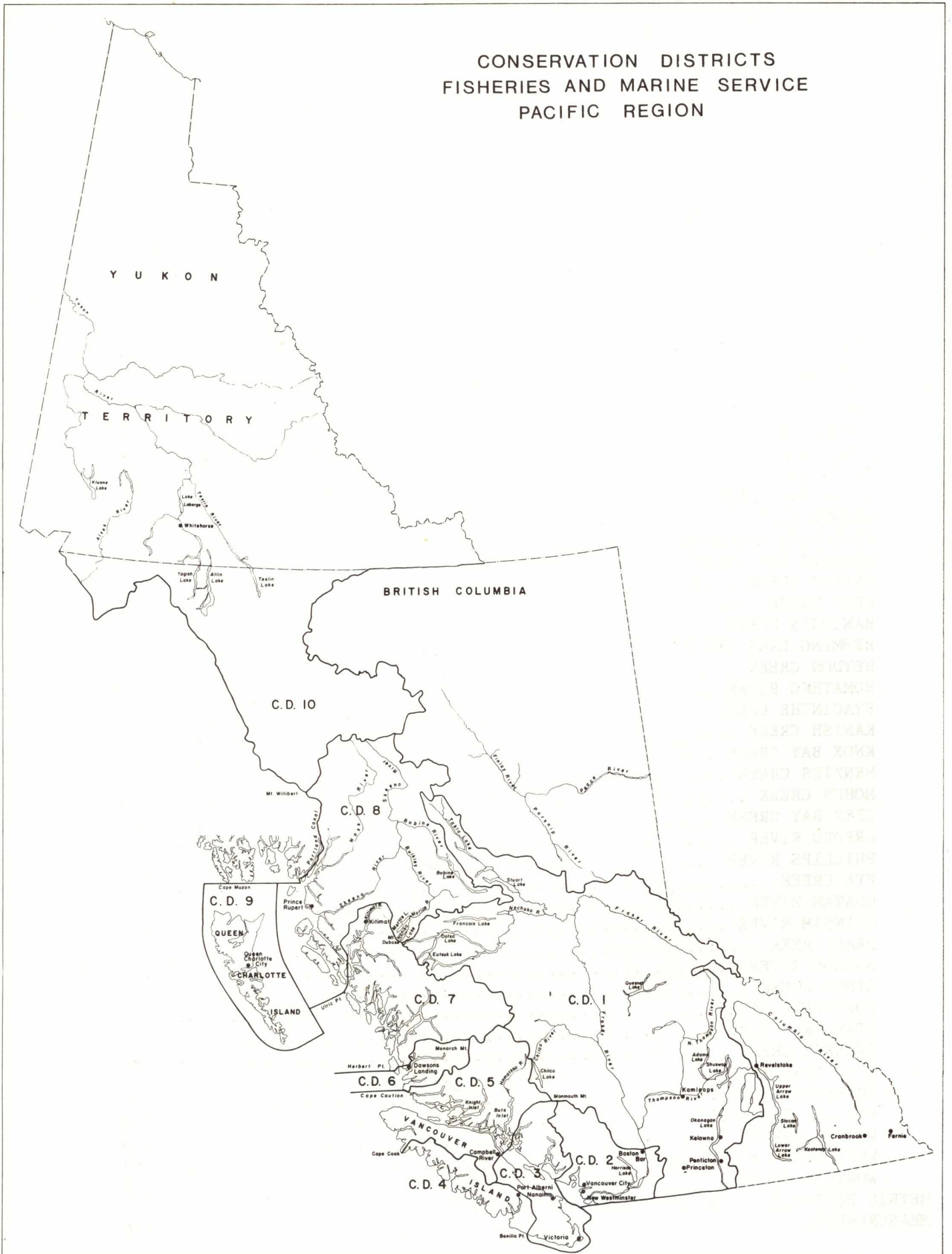


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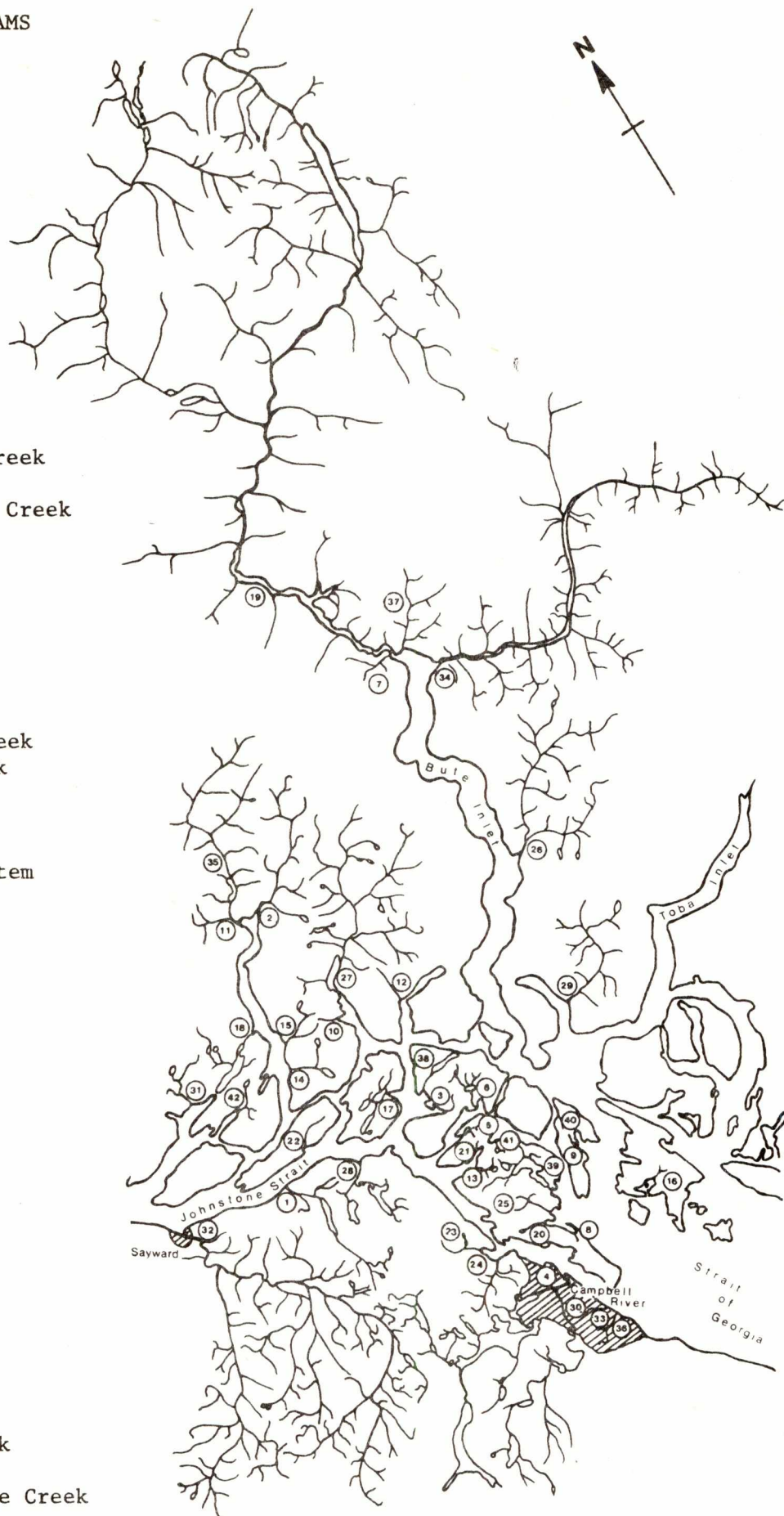
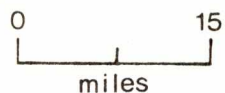
CONSERVATION DISTRICTS  
FISHERIES AND MARINE SERVICE  
PACIFIC REGION



**MANAGEMENT BRANCHES  
FISHERIES & MARINE SERVICE  
PACIFIC REGION**



SALMON SPAWNING STREAMS  
STATISTICAL AREA 13



1. Amor de Cosmos Creek
2. Apple River
3. Cameleon Harbour Creek
4. Campbell River
5. Chonat Creek
6. Christie Creek
7. Cumsack River
8. Drew Creek
9. Evans Creek
10. Fanny Bay Creek
11. Fraser Creek
12. Frederick Arm Creek
13. Granite Bay Creek
14. Grassy Creek
15. Gray Creek
16. Hanson's Creek
17. Hemming Lake System
18. Heydon Creek
19. Homathko River
20. Hyacinthe Creek
21. Kanish Creek
22. Knox Bay Creek
23. Menzies Creek
24. Mohun Creek
25. Open Bay Creek
26. Orford River
27. Phillips River
28. Pye Creek
29. Quatam River
30. Quinsam River
31. Read Creek
32. Salmon River
33. Simms Creek
34. Southgate River
35. Stafford River
36. Swansky Creek
37. Teaquahan River
38. Thurston Creek
39. Village Bay Creek
40. Waiatt Creek
41. Whiterock Passage Creek
42. Wortley Creek





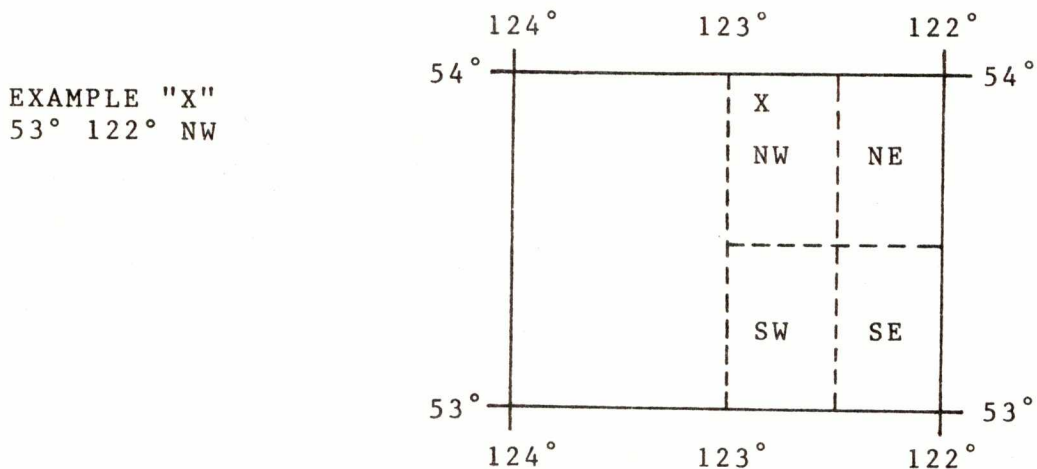
STANDARDS USED ON STREAM DATA PAGE

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 for the described length.

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

Composition:

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
Unclassified	where bottom cannot be observed, e.g. log jam, pools, water colour, etc.

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 instantaneous 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: Emphasizes features of stream and spawning populations. 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 were observed; UNK means some fish were seen but no estimates were made.

The timing is in reference to migration and spawning:

Arr. - arrival in stream  
E - early (first 10 days of month)  
M - middle (middle 10 days of month)  
L - late (last 10 days of month)

Distance references are from mouth of stream, unless otherwise stated.





# MAP REFERENCES

**Roads:**

hard surface, all weather	
hard surface, all weather	
loose surface, all weather	
" less than 2 lanes	
Private Road, Trail	

**Railways:**

normal gauge, multiple track	
normal gauge, single track	
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	
Spot Elevation, (in feet)	
Mine or Pit	

Road, Hard Surface, All Weather	
" Loose Surface, All Weather	
" Loose Surface, Less than 2 lanes	
" Private (Logging, Mining etc.)	
" Four Wheel Drive	
Trail	
Railway	
Main Telephone Line	
Main Electric Power Line	
Horizontal Control Station	
Contours (Interval 500 feet)	
Elevation in feet above mean sea-level	
Intermittent Stream	
Swamp or Marsh	
Dam	
Spring	
Navigation Light	
Mine	
Glacier	
Customs Office	

House, Building	
School	
Church	
" with conspicuous Tower or Spire	
Post Office	
Tower, Radio Mast, Lookout, etc.	
Cemetery	
Quarry	
Sand or Gravel Pit	
Cliff	
Cutting	
Embankment	
Saw Mill	

Lighthouse	
Wharf or Pier	
Foreshore Flats	
Swamp or Marsh	
Lake or Pond, intermittent	
Glacier or Snowfield	
Stream, intermittent	
Irrigation Canals, Ditches	
Inundated Land, seasonal	
Contours, elevation	
" depression	
" approximate	
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	
Contours, elevation	
Contours, depression	
Forest	

City or large town		Post office	P	Boundary monument	□
Town		School	S	Astronomical position	⊕
Village or settlement		Church	+	Horizontal control point	△
Streams:		Intermittent lake			
intermittent or dry		Marsh or swamp			
indefinite		Sand, gravel or mud			
Irrigation canal or ditch		Wooded areas			
Rapids; falls		Seaplane base			
Aerodrome		Seaplane anchorage			
Landing ground					

Streams		Dam	
Highways		Log Jams	
Roads		Log	
Trails		Power Line	
Houses		Coho	CO
Railroad		Chum	CM
Falls		Pink	P
Rapids		Chinook	CK
Rip-Rap		Sockeye	S
Bridges			





STREAM DATA  
STATISTICAL AREA 13





NAME OF STREAM AMOR de COSMOS CREEK (Bear River)  
 CONSERVATION DISTRICT 5 STATISTICAL AREA 13  
 LOCATION OF MOUTH Flows N. and N.W. into Johnstone Str. near E. end - Sayward  
 Dist. \_\_\_\_\_ POSITION 50 125 S.W.  
 LENGTH 2.5 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 series of falls at 2.5 mi.

## SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	lightly scattered throughout
COHO	upper reaches and small side channels
CHUM	lower 1 mi.
PINK (ODD YR)	lower 2 mi.
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM \_\_\_\_\_

## GENERAL REMARKS:

- Biological & Engineering surveys were carried out at Bear River to determine whether or not remedial measures were warranted at the obstruction to increase the distribution of salmon in this watershed. The high cost of constructing fishways made the project uneconomical. (1966 & 1967)
- Some logging activity in upper reaches. (1972)
- Low water levels have prevented pink runs from entering the river until late Sept. to Oct. (1970, 1972 & 1974)
- Personnel of the Pacific Biological Station have set up a small pink salmon hatchery on this stream. Experimental work is being done to introduce an odd year pink run



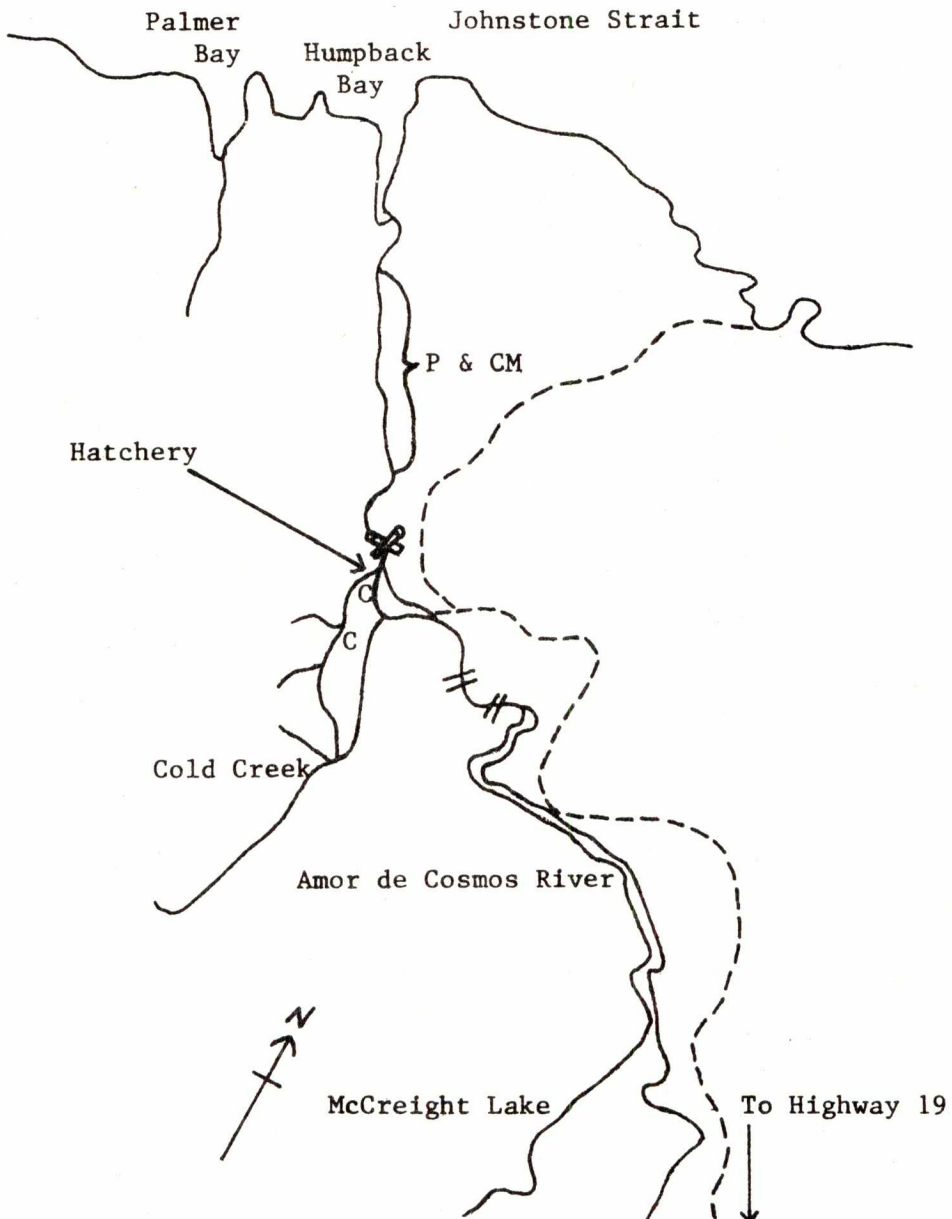
GENERAL REMARKS: (Cont'd)

to this otherwise barren year.

## References:

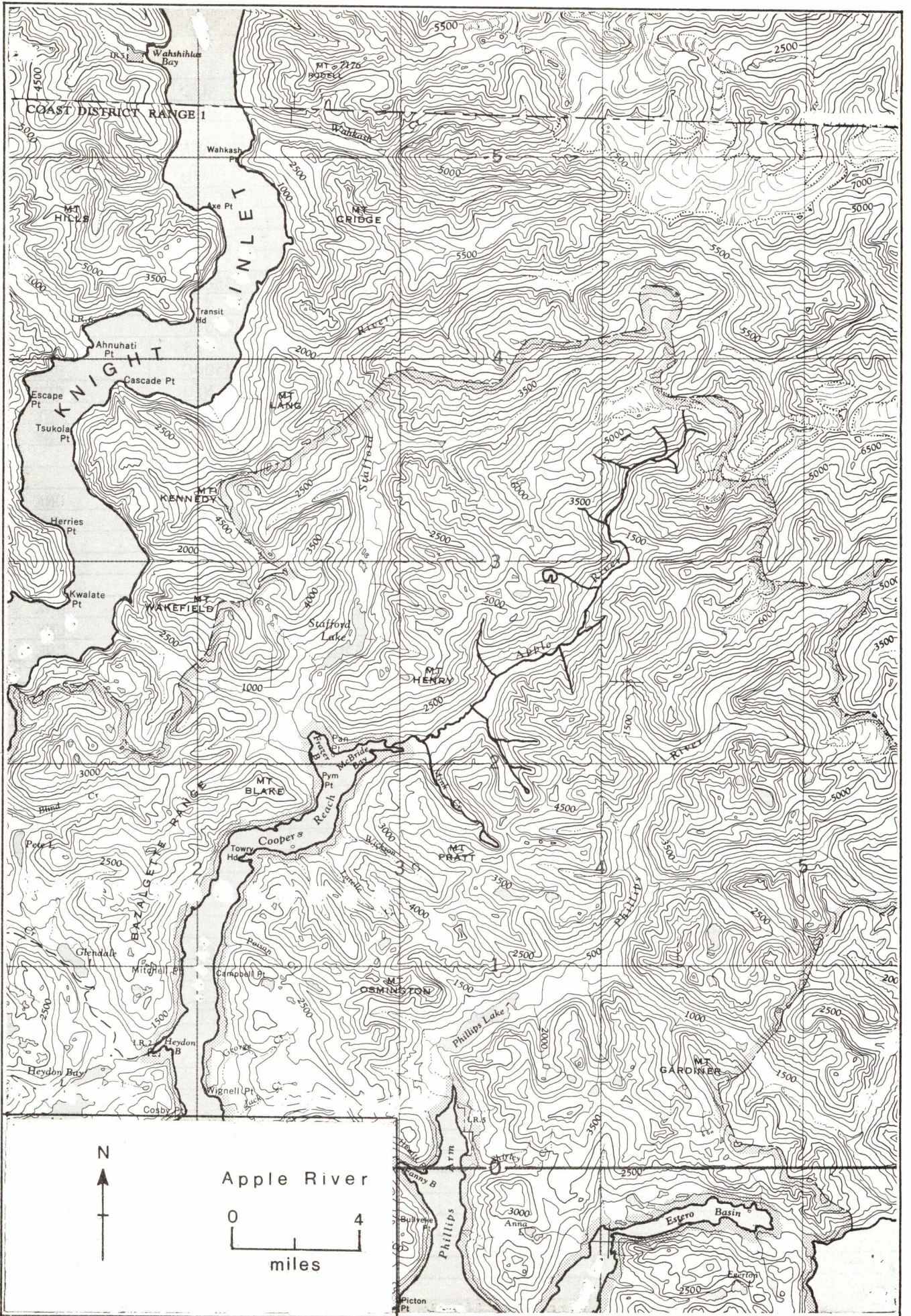
Hourston, W.R. 1968. Use of Upper Bear River Watershed for the Production of Salmonids. D.O.E., F.M.S., Pac. Reg. Letter to J. Fielden. 31-3-B19 2p.

Sketch of Amor de Cosmos Creek, 1975  
(spawning grounds)











NAME OF STREAM APPLE RIVER  
 CONSERVATION DISTRICT 5 STATISTICAL AREA 13  
 LOCATION OF MOUTH Flows S.W. into McBride Bay, head of Loughbrough Inlet, Rge. 1 -  
 Coast Dist. \_\_\_\_\_ POSITION 50 125 N.E.  
 LENGTH 12.0 MI. WIDTH \_\_\_\_\_ FT. DRAINAGE 68 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	throughout

WETTED AREA \_\_\_\_\_ SQ. YD. SPAWNING AREA \_\_\_\_\_ SQ. YD.  
 DISCHARGE \_\_\_\_\_ CFS MAX \_\_\_\_\_ MIN \_\_\_\_\_  
 TEMPERATURE \_\_\_\_\_

BARRIERS OR POINTS OF DIFFICULT ASCENT  
- Falls at 10 mi. were believed to be impassable but salmon recently have been seen above the obstruction.

SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	4 - 10 mi.
COHO	throughout - mainly 5 - 12 mi.
CHUM	lower 5 mi.
PINK (ODD YR)	lower 5 mi.
PINK (EVEN YR)	lower 5 mi.
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

GENERAL REMARKS:  
- Logging operations commenced in 1961, shut down in 1966 & 1967 and started again in 1968.  
- A logging company caused heavy silting to a tributary stream at mile 10 and the full length of Apple River below this point. Large quantities of debris were released into the main river. (1971)  
- Two kinds of obstructions exist on this stream: (1) falls and cascades exist at 8 mi. and 10 mi. The falls at 8 mi. are negotiable at times to salmon. The falls at 10 mi. were believed to be impassable; (2) An extremely large log jam has built up in the lower river. The jam is composed of logging and forest debris. (1973)

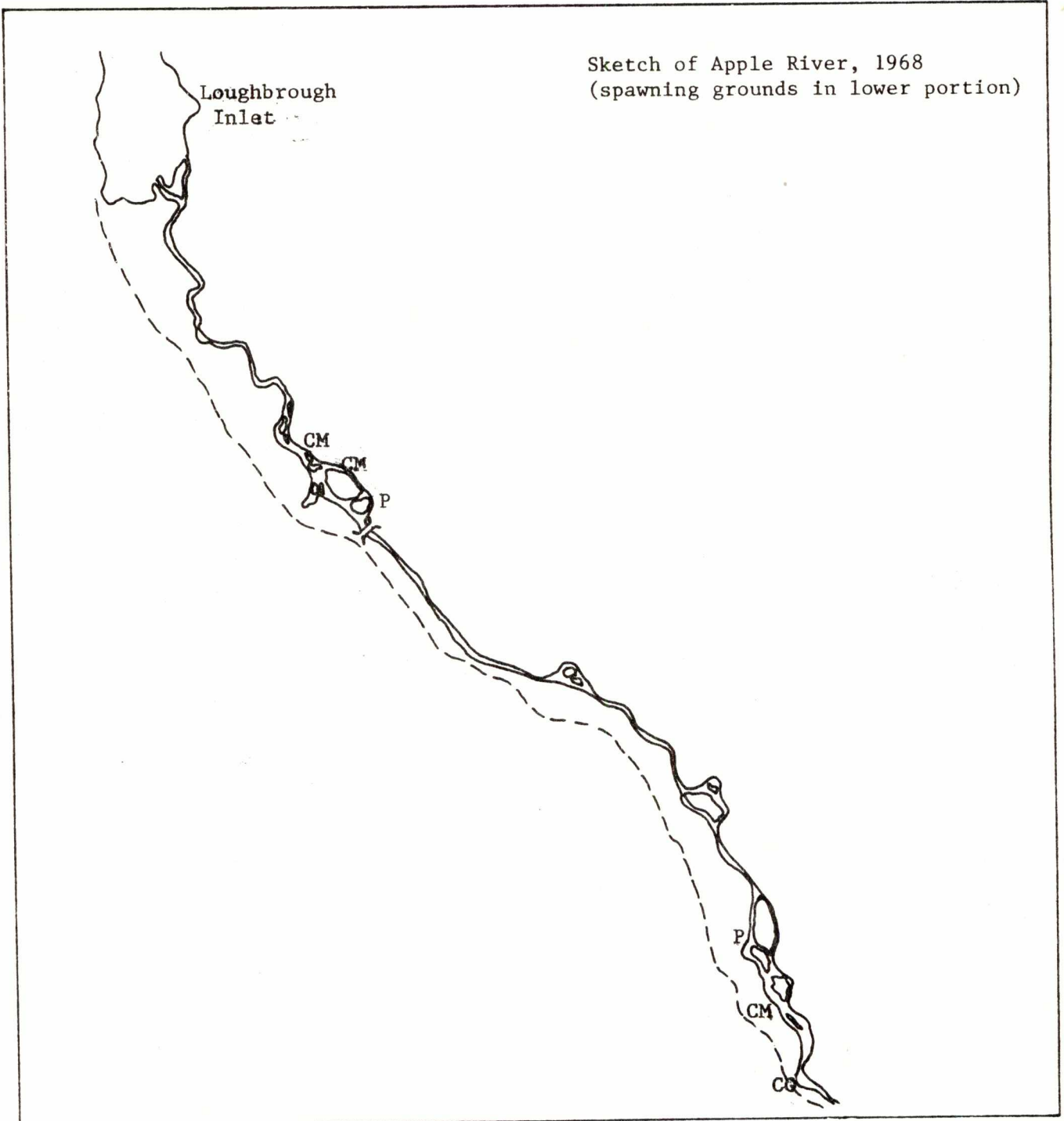


GENERAL REMARKS: (Cont'd)

- Freshet conditions during November severely damaged previously spawned pink salmon eggs. (1975)

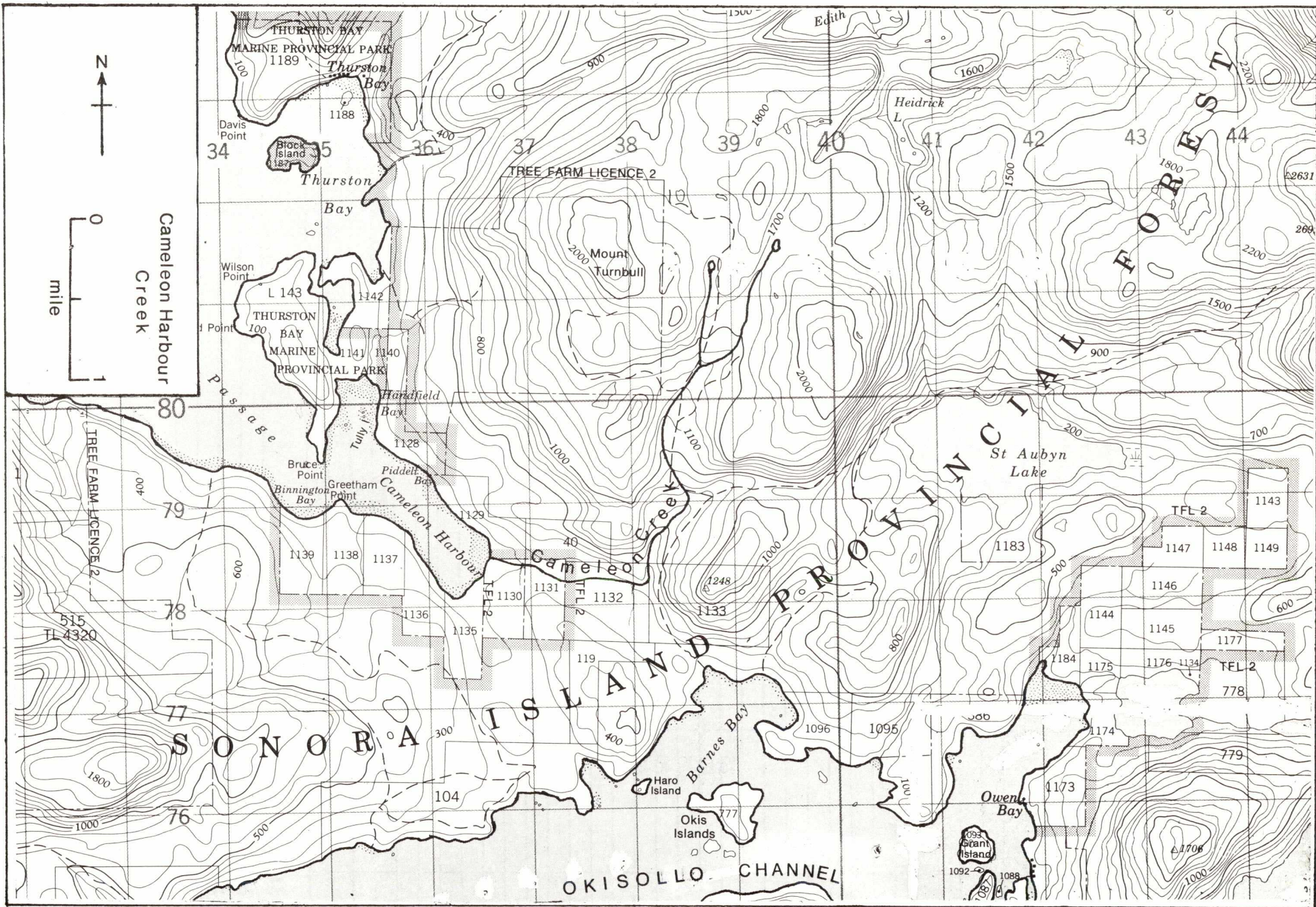
## References:

- Rapp, O. and G.A.C. Wilson. 1968. Apple River Obstruction Survey (Removal of obstruction was not considered necessary since accessible spawning area is under-utilized). Dept. of Fisheries. Memo. 31-3-A17 2p & Appendix.











NAME OF STREAM (Not Gazetted) (Cameleon Harbour Creek)

CONSERVATION DISTRICT 5 STATISTICAL AREA 13

LOCATION OF MOUTH Flows S.W. and W. into Cameleon Harbour, W. side of Sonora Is.

- Sayward Dist. POSITION 50 125 S.E.

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

SPAWNING DISTRIBUTION:

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

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

Sketch of Cameleon Creek, 1968  
(spawning grounds)



ESCAPEMENT RECORD FOR

(Cameleon Harbour Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947				3500	400	
48			75	7500	7500	
49			25	3500	25	
50			75	400	3500	
51			25	1500	N/O	
52			75	400	7500	
53			75	400	N/O	
54			25	200	750	
55			75	75	N/O	
56			75	75	3500	
57			200	200	N/O	
58			75	750	1500	
59			75	N/O	N/O	
60			75	75	N/O	
61			75	200	N/O	
62			400	400	3500	
63			75	200	N/O	
64			200	200	7500	
65			750	25	N/O	
66			75	N/O	15000	
67			75	75	N/O	
68			400	200	15000	
69			75	200	N/O	
70			25	N/O	7500	
71			400	25	N/O	
72			75	75	3500	
73			75	75	N/O	
74			400	N/O	5000	
75			25	25	N/O	
76						
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Arr.			OCT	OCT	AUG	
Start			OCT	OCT	SEPT	
Peak			OCT	OCT	OCT	
End			NOV	NOV	OCT	

REMARKS







NAME OF STREAM CAMPBELL RIVER  
 CONSERVATION DISTRICT 5 STATISTICAL AREA 13  
 LOCATION OF MOUTH Flows E. into Discovery Passage - Sayward Dist.  
 POSITION 50 125 S.E.  
 LENGTH 3.5 MI. WIDTH          FT. DRAINAGE 679 SQ. MI.  
 COMPOSITION: BEDROCK          BOULDER          COARSE          FINE           
 SILT & SAND          UNCLASSIFIED         

## GRADIENT:

FALL IN FT/000

0.0 - 2.52.5 - 5.05.0 - 7.57.5 - 10.0> 10.0WETTED AREA          SQ. YD. SPAWNING AREA          SQ. YD.DISCHARGE 3430 CFS MAX 29,500 cfs 15/11/53 MIN 446 cfs 30/09/56TEMPERATURE         BARRIERS OR POINTS OF DIFFICULT ASCENT         - Impassable falls at 3.5 mi.

## SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	above 2 mi.
COHO	Quinsam River
CHUM	lower 1 mi. and side channels
PINK (ODD YR)	1 - 2 mi.
PINK (EVEN YR)	1 - 2 mi.
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM         

## GENERAL REMARKS:

- Campbell River flows are affected by hydro-electric development. This includes a diversion dam constructed in 1957, storage dams completed in 1947 and powerhouse facilities. The diversion diverts water from the Salmon River system into Brewster Lake of the Campbell River system.

- Heavy sport fishing occurs on this river. (1968)

- The productive inter-tidal zone of Campbell River has been significantly reduced and degraded over the past years due to mans encroachment. (Boyd - 1974)

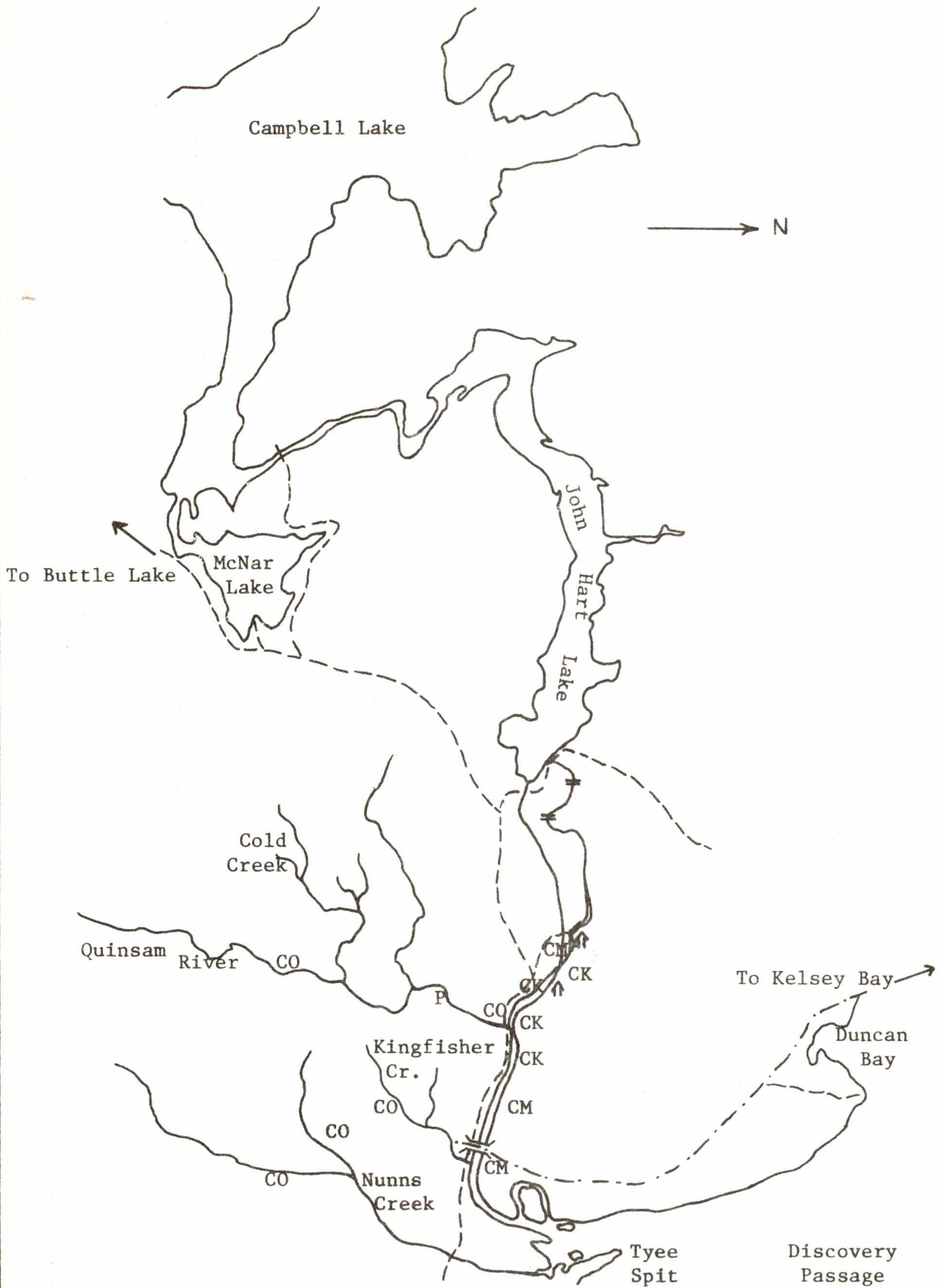
GENERAL REMARKS: (Cont'd)

## References:

- Boyd, F.C. 1974. Campbell River Estuary. D.O.E., F.M.S., Pac. Reg. Memo. 31-3-C12 4p & Appendix.
- Crouter, R.A. 1975. Relocation of Kingfisher Creek. D.O.E., F.M.S., Pac. Reg. Unpublished report. 5900-85-C26-1. 6p & Appendix.
- Mundie, H. and D.E. Mounce. 1974. Effects of Changes in Discharge in the Lower Campbell River on the Transport of Food Organisms of Juvenile Salmon. D.O.E., F.M.S., Pac. Reg. Memo. 31-3-C12 10p & Tables.



## Sketch of Campbell River, 1968







ESCAPEMENT RECORD FOR CAMPBELL RIVER

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947		3500	3500	7500	7500	1500
48		3500	1500	15000	7500	1500
49		1500	400	3500	200	1500
50		1500	750	3500	7500	1500
51		1500	750	7500	400	750
52		3500	3500	3500	7500	750
53		3500	750	1500	75	1500
54		1500	750	3500	1500	750
55		3500	750	750	200	750
56		750	750	1500	1500	750
57		1500	25	400	75	75
58		3500	400	1500	750	400
59		1500	750	750	75	UNK
60		3500	75	400	400	UNK
61		1500	400	1500	75	UNK
62		4000	750	750	400	UNK
63		4000	400	3500	200	UNK
64		6000	750	750	3500	UNK
65		8000	1500	400	400	UNK
66		3500	3500	750	3500	UNK
67		3500	400	750	750	UNK
68	200	3500	3500	750	3500	UNK
69	200	7500	400	3500	750	UNK
70	N/O	3500	3500	3500	3500	UNK
71	75	7500	1500	1500	750	UNK
72	75	7500	1500	3500	3500	UNK
73	150	4300	1000	4000	1000	N/O
74	75	2500	1500	3500	4000	UNK
75	25	2250	400	3000	1500	UNK
76						
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Arr.	AUG	AUG	SEPT	L SEPT	AUG	
Start	SEPT	SEPT	SEPT	OCT	SEPT	
Peak	L SEPT	L SEPT	L OCT	NOV	SEPT	
End	OCT	NOV	E DEC	NOV	OCT	

## REMARKS

- Escapements prior to 1957 include Quinsam River counts.







NAME OF STREAM (Not Gazetted) (Chonat Creek)  
 CONSERVATION DISTRICT 5 STATISTICAL AREA 13  
 LOCATION OF MOUTH Flows N. and N.W. into Chonat Bay, N. end of Quadra Is. -  
Sayward Dist. POSITION 50 125 S.E.  
 LENGTH 1.5 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 cascades and falls at 1.5 mi.

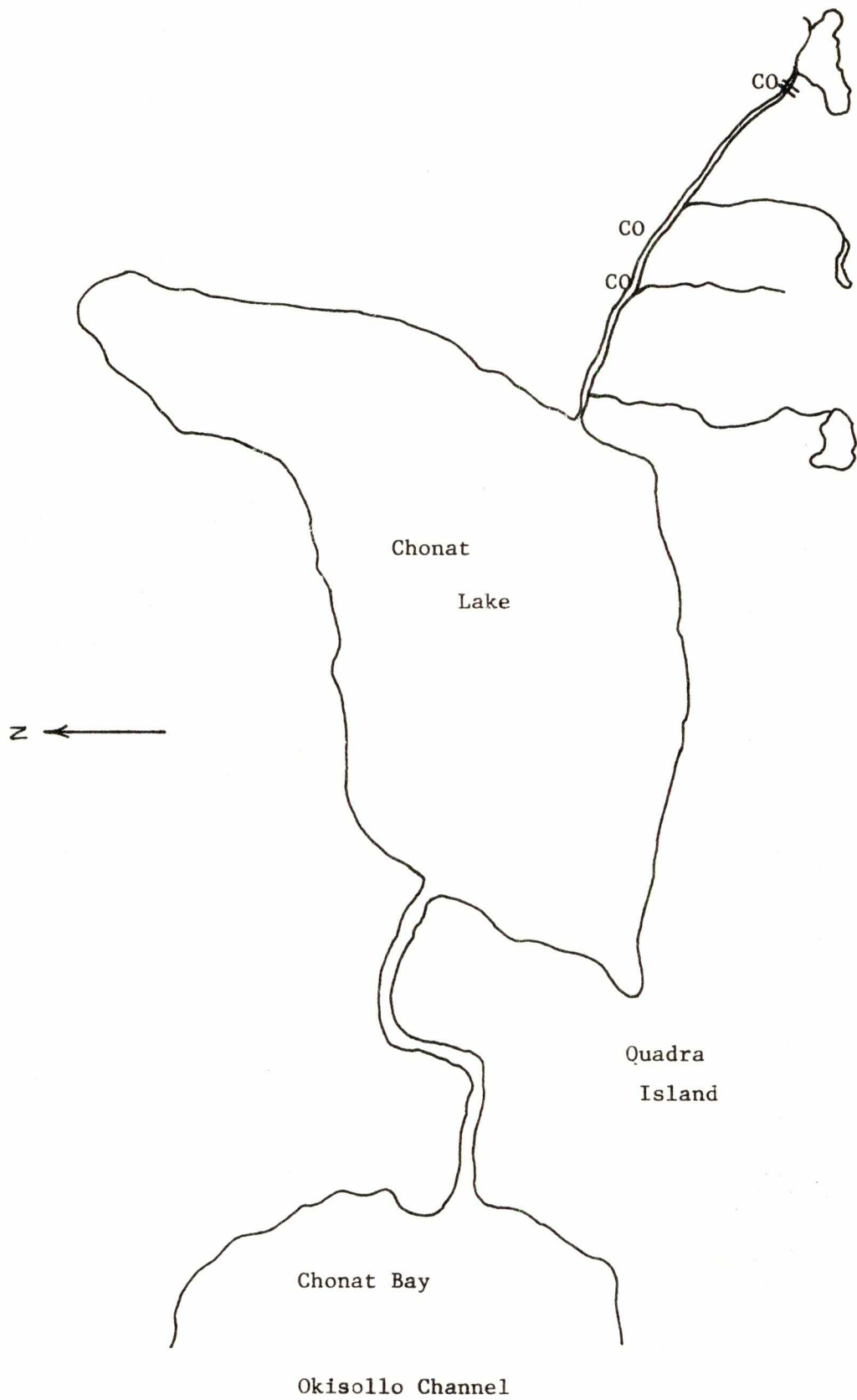
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	in tributary streams above Chonat Lake
CHUM	
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM       

GENERAL REMARKS:  
- The only suitable spawning ground in this system is the creek draining into the lake. The stream draining the lake is muddy and unsatisfactory for spawning purposes. (1955)

Sketch of Chonat Creek, 1968  
(coho spawning grounds)













NAME OF STREAM (Not Gazetted) (Christie Creek)  
 CONSERVATION DISTRICT 5 STATISTICAL AREA 13  
 LOCATION OF MOUTH Flows S. into Okisollo Channel, S. side of Sonora Is. -  
Sayward Dist. POSITION 50 125 S.E.  
 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	

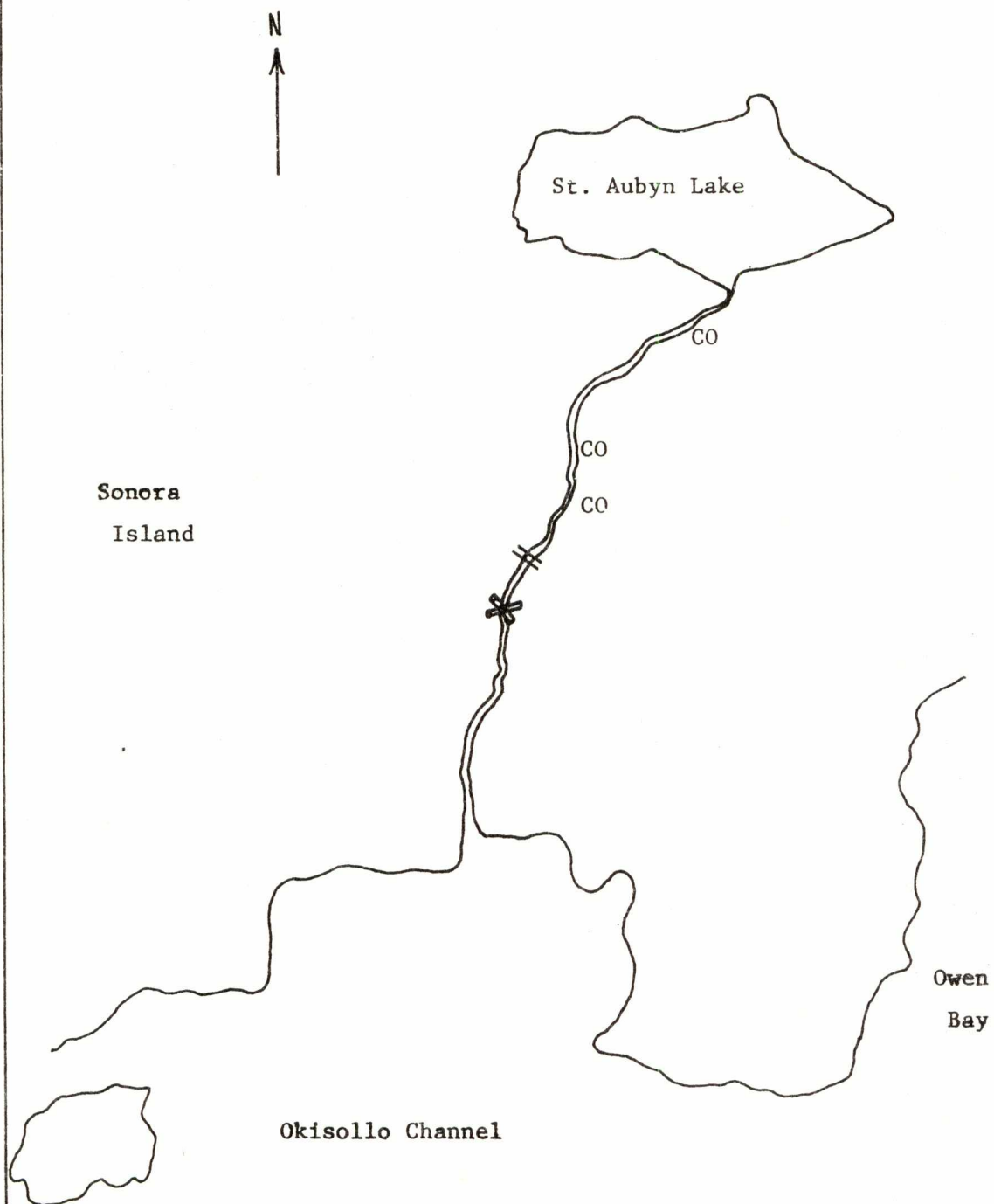
WETTED AREA        SQ. YD. SPAWNING AREA        SQ. YD.DISCHARGE        CFS MAX        MIN       TEMPERATURE       BARRIERS OR POINTS OF DIFFICULT ASCENT       - A 6' waterfall is impassable to pink and chum salmon at 0.5 mi.

## SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	above waterfall to upper reaches
CHUM	lower 0.5 mi.
PINK (ODD YR)	lower 0.5 mi.
PINK (EVEN YR)	lower 0.5 mi.
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM       - The falls could be made passable to pink and chum by a small amount of rock work.There are approx. 0.5 mi. of good spawning ground above the obstruction.GENERAL REMARKS:

Sketch of Christie Creek, 1968  
(spawning grounds)

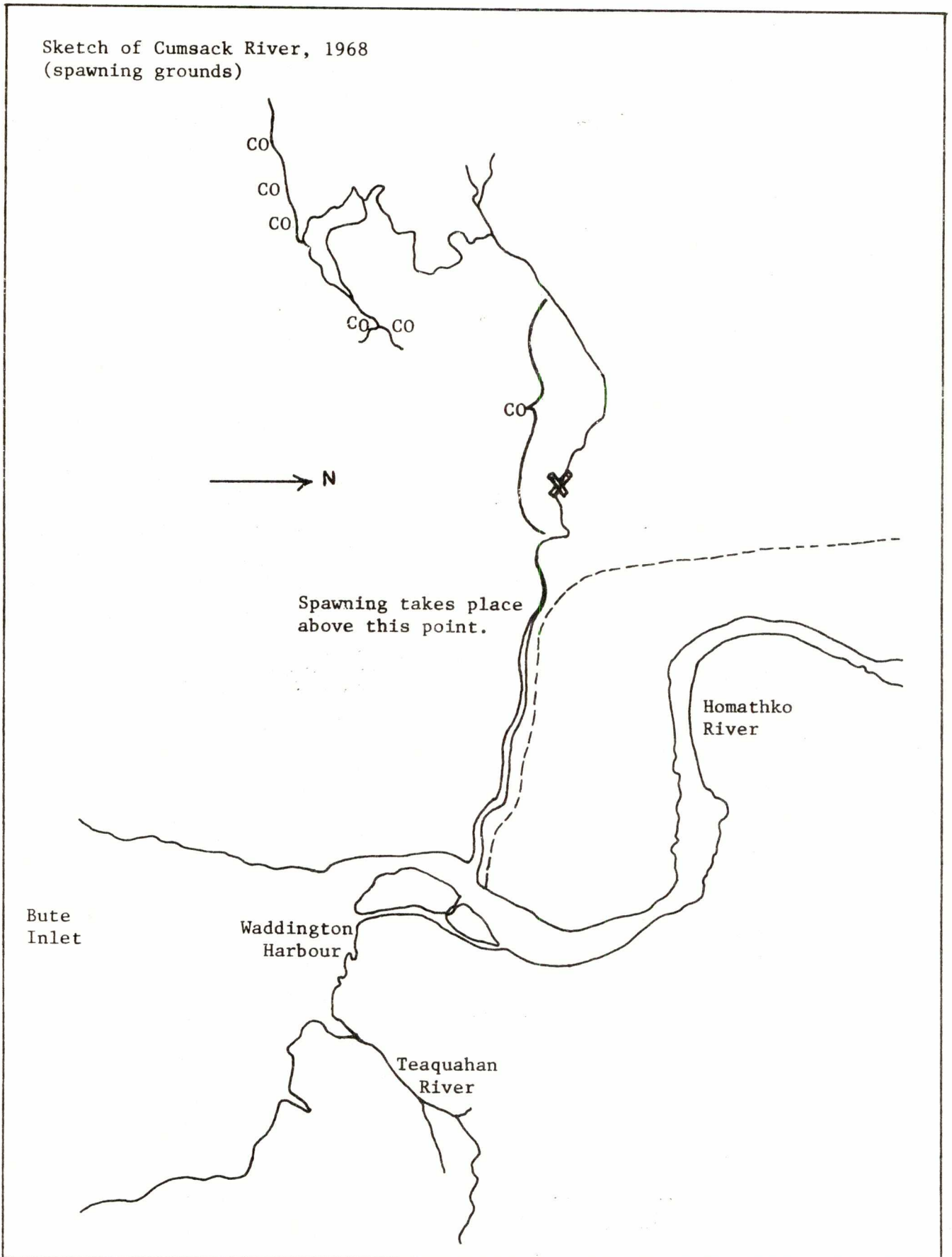






CUMSACK RIVER: For topographical map, refer to SOUTHGATE RIVER, page 139.

Sketch of Cumsack River, 1968  
(spawning grounds)





NAME OF STREAM CUMSACK RIVER

CONSERVATION DISTRICT 5 STATISTICAL AREA 13

LOCATION OF MOUTH Flows E. into mouth of Homathko R., Rge. 1 - Coast Dist.

POSITION 50 124 N.W.

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           

- Passable log jam at 2 mi. (1976)

SPAWNING DISTRIBUTION:

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

POTENTIAL OF INACCESSIBLE PORTION OF STREAM           

GENERAL REMARKS:

- Logging operations commenced along the west side of the Homathko River in 1969.
- The water is always discoloured making salmon enumeration difficult. (1969)
- The lower mile of this stream was dredged this spring. Further dredging took place this year approx. 1 mi. upstream for a scow landing and a log dump. (1970)



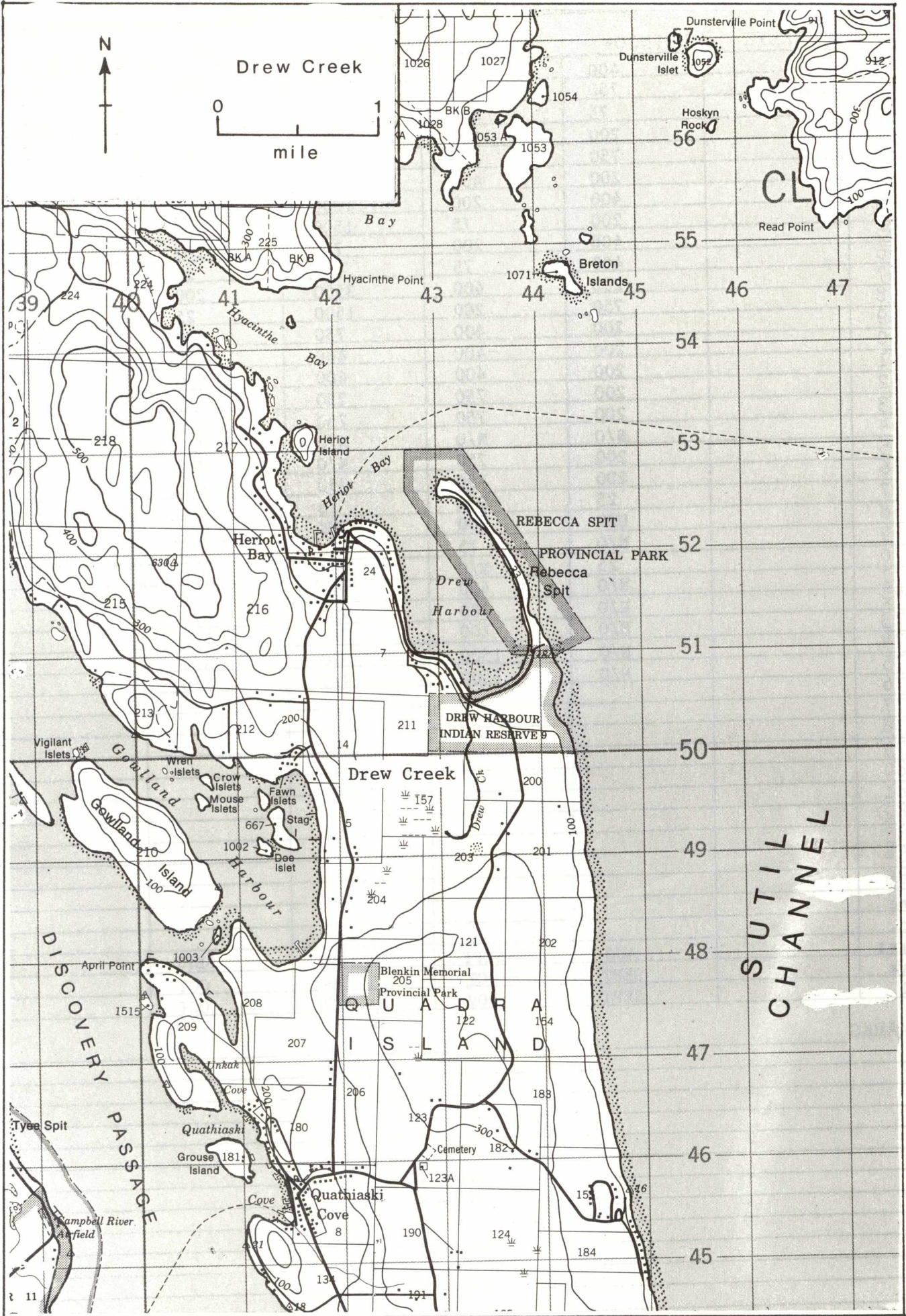


ESCAPEMENT RECORD FOR CUMSACK RIVER

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947		400	3500	7500	7500	
48		750	750	1500	3500	25
49		75	400	1500	750	400
50		200	1500	1500	1500	400
51		750	400	3500	3500	200
52		200	400	1500	1500	200
53		400	200	1500	3500	200
54		200	75	1500	200	75
55		400	200	750	200	200
56		400	75	750	25	75
57		200	400	3500	200	200
58		750	200	1500	25	200
59		200	400	750	200	UNK
60		200	400	400	25	UNK
61		200	400	400	N/O	
62		200	750	750	25	
63		200	750	750	N/O	
64		N/O	N/O	N/O	N/O	
65		200	750	N/O	N/O	
66		200	750	750	N/O	
67		25	N/O	75	N/O	
68		UNK	200	UNK	UNK	
69		N/O	75	N/O	N/O	
70		25	N/O	25	N/O	
71		N/O	400	N/O	N/O	
72		N/O	200	N/O	N/O	
73		N/O	200	N/O	N/O	
74		N/O	1500	N/O	N/O	
75		N/O	1500	N/O	N/O	
76						
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Arr.						
Start		AUG	SEPT	OCT	SEPT	
Peak		SEPT	OCT	NOV	OCT	
End		SEPT	NOV	NOV	OCT	

REMARKS







NAME OF STREAM (Not Gazetted) (Drew Creek)

CONSERVATION DISTRICT 5 STATISTICAL AREA 13

LOCATION OF MOUTH Flows N. into Drew Harbour, E. side of Quadra Is. - Sayward

Dist. \_\_\_\_\_ POSITION 50 125 S.E.

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 \_\_\_\_\_

- Passable beaver dams at 1 mi.

SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	lower 0.5 mi.
CHUM	lower 0.5 mi.
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

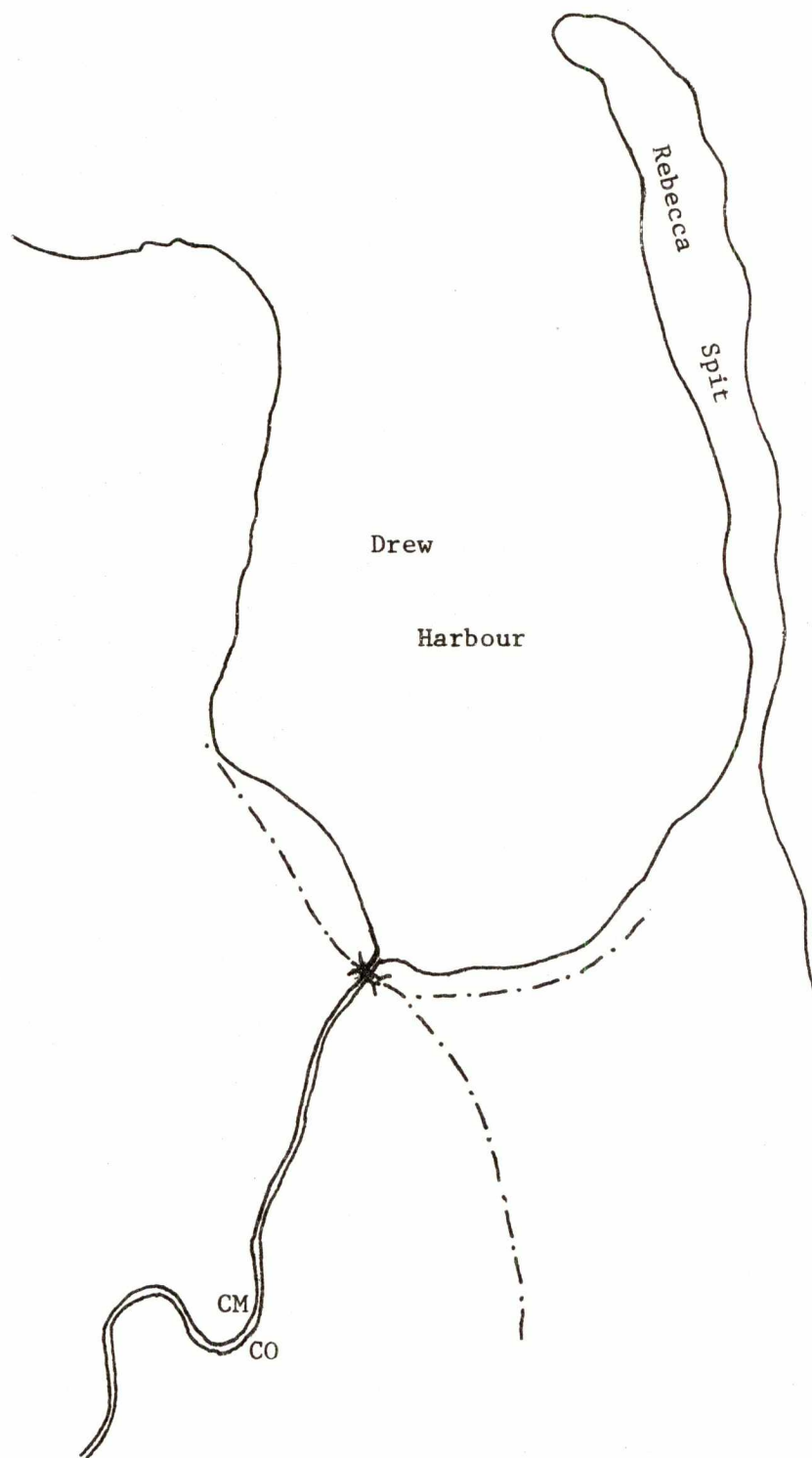
POTENTIAL OF INACCESSIBLE PORTION OF STREAM \_\_\_\_\_

GENERAL REMARKS:

- Logging activity in the past appears to have damaged this stream. (1967)

- A stream clearing crew cleared the stream for 1.5 mi. during Dec. 1970.

Sketch of Drew Creek, 1968  
(spawning grounds)





## ESCAPEMENT RECORD FOR

(Drew Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			25	7500		
48			25	200		
49			25	25		
50			75	400		
51			25	400		
52			75	25		
53			25	25		
54			25	75		
55			25	25		
56			25	25	25	
57			25	400		
58			200	400		
59			75	75		
60			25	25		
61			75	N/O		
62			75	N/O		
63			75	25		
64			N/O	N/O		
65			75	N/O		
66			N/O	N/O		
67			N/O	N/O		
68			N/O	N/O		
69			N/O	N/O		
70			N/O	N/O		
71			N/O	25		
72			N/O	25		
73			N/O	25		
74			N/O	N/O		
75			N/O	N/O		
76						
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Arr.						
Start			OCT	OCT		
Peak			OCT	NOV		
End			NOV	NOV		

REMARKS







NAME OF STREAM (Not Gazetted) (Evans Creek)

CONSERVATION DISTRICT 5 STATISTICAL AREA 13

LOCATION OF MOUTH Flows S. into Bird Cove, E. side of Read Is. - Sayward Dist.

POSITION 50 125 S.E.

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

- Passable beaver dams at 1 - 2 mi.

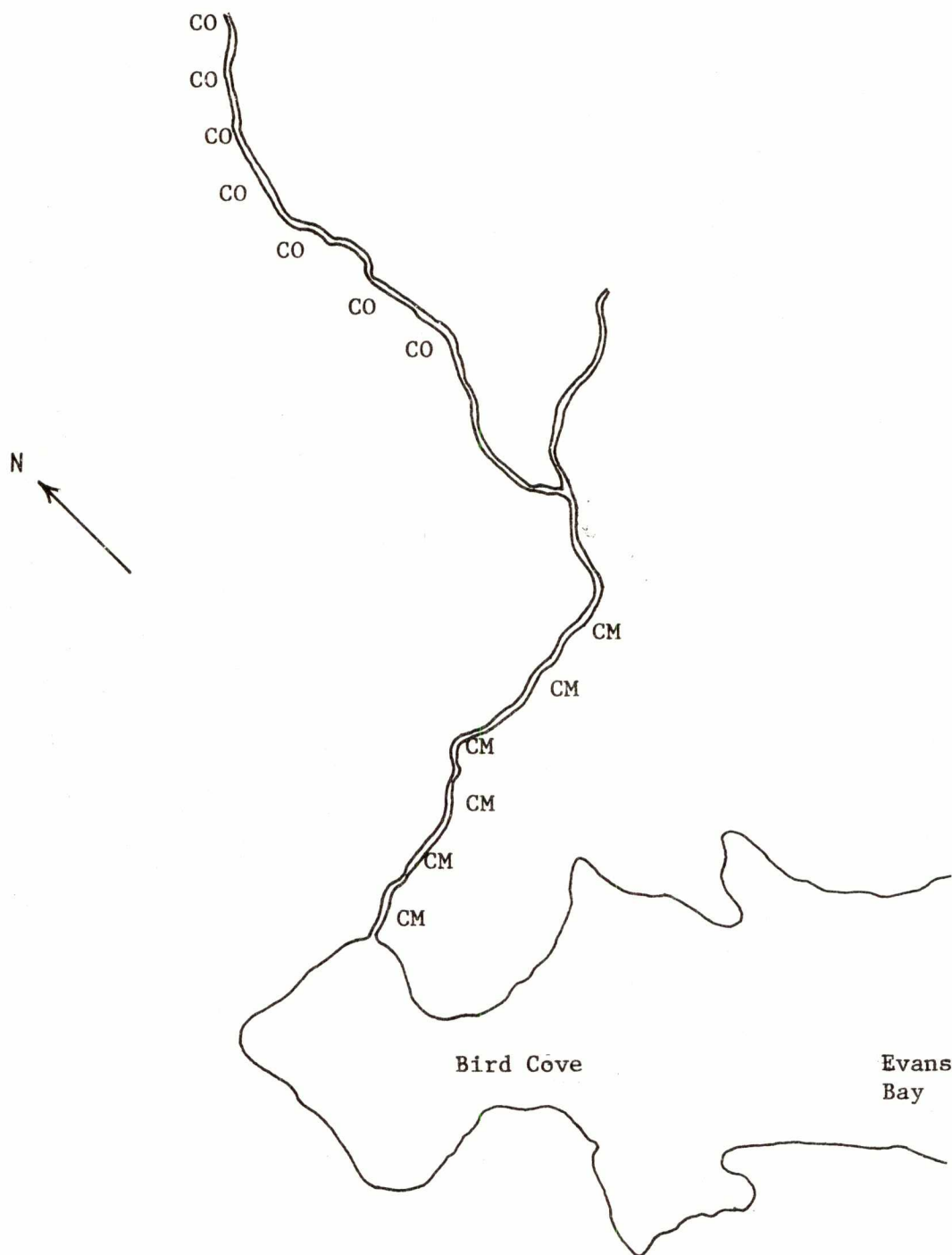
SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	lower 0.5 mi.
CHUM	lower 0.5 mi.
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

Sketch of Evans Creek, 1968  
(spawning grounds)





ESCAPEMENT RECORD FOR

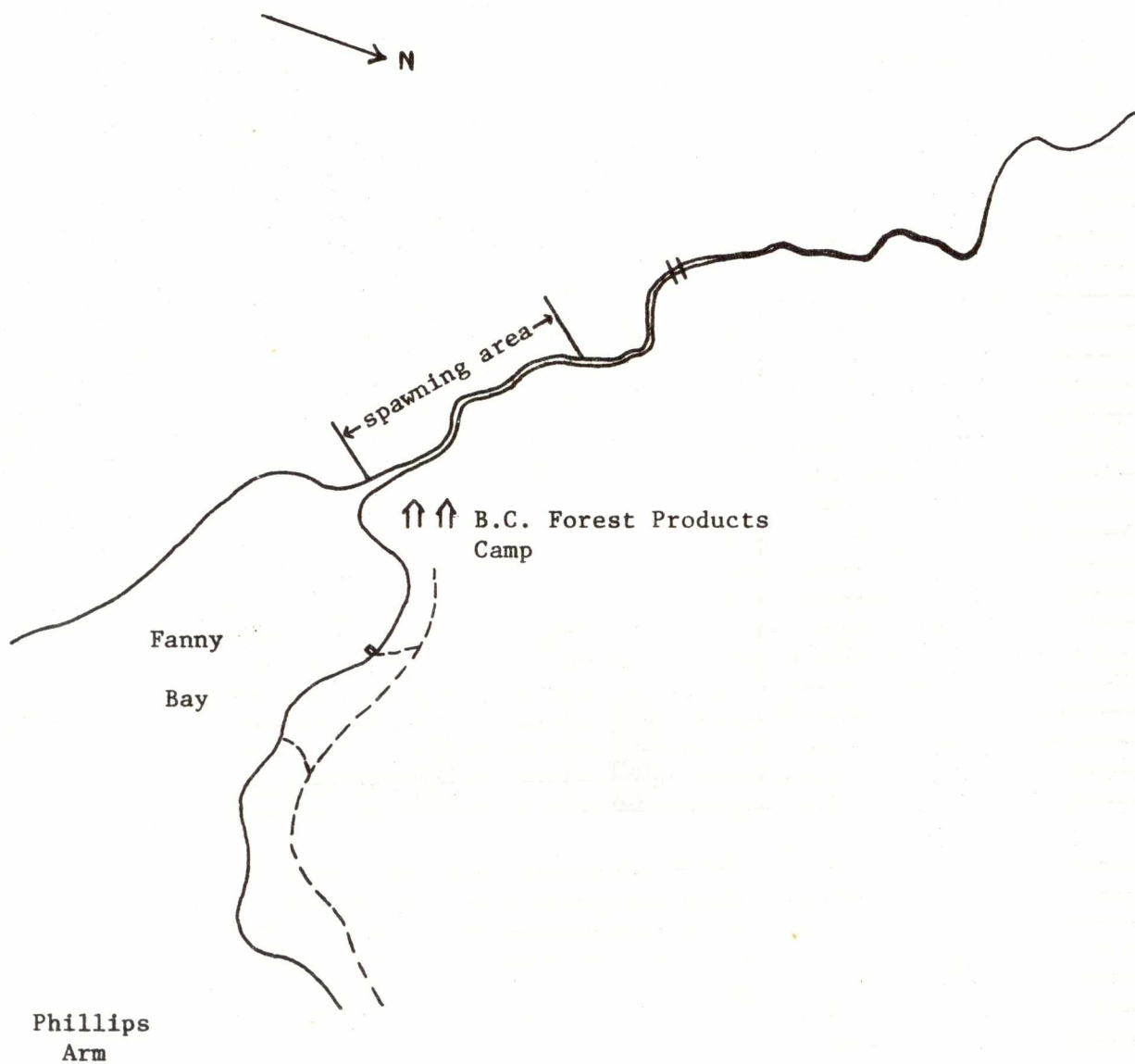
(Evans Creek)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51						
52		NO RECORDS PRIOR TO 1954 (except for 1935)				
53						
54			UNK	400		
55			NO	RECORD		
56			25	75		
57			25	25		
58			75	750		
59			75	200		
60			75	200		
61			200	200		
62			200	400		
63			200	400		
64			N/O	200		
65			200	75		
66			200	400		
67			75	400		
68			25	3500		
69			25	1500		
70			200	400		
71			75	400		
72			N/O	3500		
73			75	1500		
74			75	750		
75			25	400		
76						
77						
78						
79						
80						
81						
82						
83						
84						
85						
Time						
Arr.			L SEPT	OCT		
Start			OCT	OCT		
Peak			OCT	NOV		
End			NOV	NOV		

REMARKS

FANNY BAY CREEK: For topographical map, refer to PHILLIPS RIVER, page 107.

Sketch of Fanny Bay Creek, 1968  
(spawning area)





NAME OF STREAM (Not Gazetted) (Fanny Bay Creek)

CONSERVATION DISTRICT 5 STATISTICAL AREA 13

LOCATION OF MOUTH Flows S.E. into Phillips Arm, Rge. 1 - Coast Dist.

POSITION 50 125 N.E.

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	lower 0.5 mi.
CHUM	
PINK (ODD YR)	lower 0.5 mi.
PINK (EVEN YR)	lower 0.5 mi.
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

- Fanny Bay is utilized for a log dump. (1968)

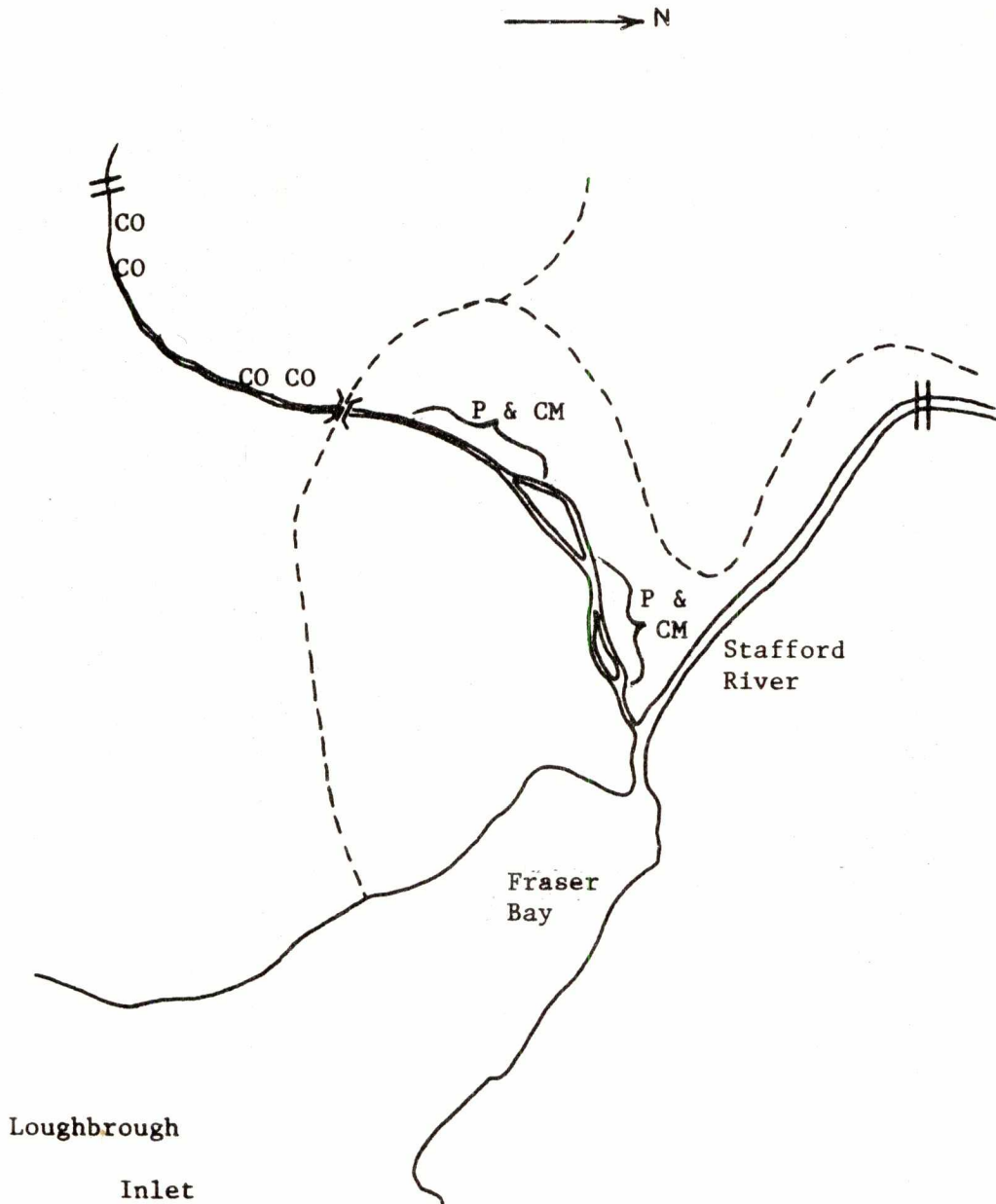






FRASER CREEK: For topographical map, refer to STAFFORD RIVER, page 143.

Sketch of Fraser Creek, 1969  
(spawning grounds)





NAME OF STREAM FRASER CREEK

CONSERVATION DISTRICT 5 STATISTICAL AREA 13

LOCATION OF MOUTH Flows E. into Stafford R., Rge. 1 - Coast Dist.

POSITION 50 125 N.E.

LENGTH 1.5 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 1.5 mi.

SPAWNING DISTRIBUTION:

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

POTENTIAL OF INACCESSIBLE PORTION OF STREAM \_\_\_\_\_

GENERAL REMARKS: \_\_\_\_\_

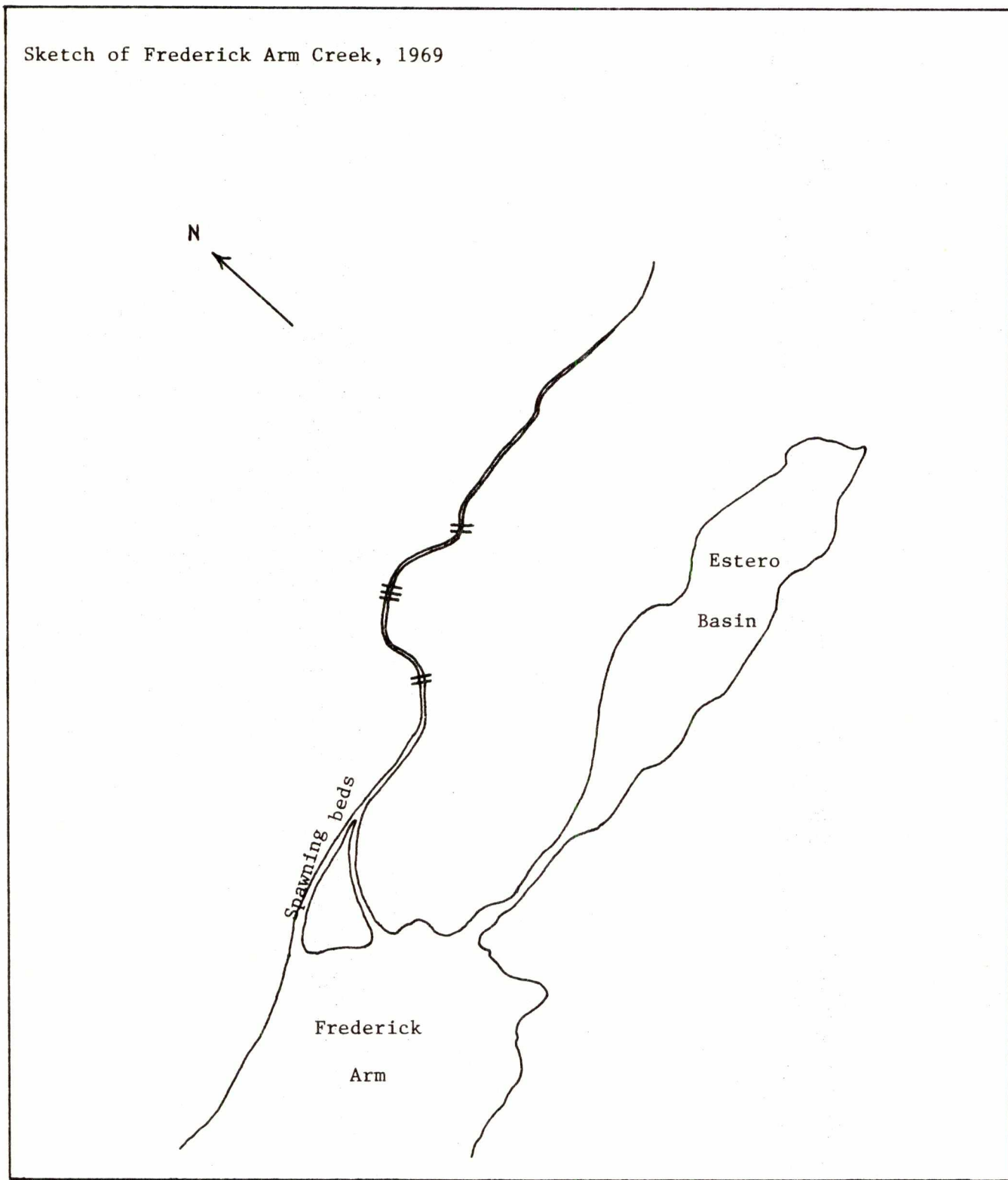






FREDERICK ARM CREEK: For topographical map, refer to PHILLIPS RIVER, page 107.

Sketch of Frederick Arm Creek, 1969





NAME OF STREAM (Not Gazetted) Frederick Arm Creek

CONSERVATION DISTRICT 5 STATISTICAL AREA 13

LOCATION OF MOUTH Flows S. into Frederick Arm, Rge. 1 - Coast Dist.

POSITION 50 125 S.E.

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 1.0 mi.

SPAWNING DISTRIBUTION:

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	lower 0.5 mi.
CHUM	lower 0.5 mi.
PINK (ODD YR)	
PINK (EVEN YR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM

GENERAL REMARKS:

- Dyking and stream improvement work was done by a logging company to lessen the effects of freshet conditions. (1971)





