

APPLICATION FOR ECOLOGICAL RESERVE

1. Legal description of the area (or general "Metes and bounds" description)
2. Geographical location (relate to nearest settlement, mountain, river, etc.)
"Hungary Creek Hemlocks", between Highway 16 and the Fraser River, ca. 15 mi. E.S.E. of Purden Lake
3. Indicate the biogeoclimatic zone of which the reserve is representative.

IWH

4. Approximate total acreage.

1,200 acres

5. Purpose of the reserve.

Conservation of a sample of lowland forest representative of the interior western hemlock zone, and containing many of its associations.

- (a) Primary (state acreage)

(A) 900 acres

- (b) Others if any (state acreage)

(B) 300 acres

- (c) Buffer areas (state acreage)

6. Attach a map and indicate: (a) the perimeters and acreage of the areas detailed in 5 above, and
(b) indicate the species and total timber volumes in these areas.

Tsuga heterophylla (afflicted with Echinodontium tinctorium)Thuja plicataPicea glauca, P. engelmanniiAbies lasiocarpaPopulus trichocarpaBetula papyriferaPseudotsuga menziesii (?)Signature J. Pojar, R.G. McMinn,

I.B.P. Surveyor

S. Waddingham, C. Parsons, V.J. Krajina

V.J. Krajina

INTERNATIONAL BIOLOGICAL PROGRAMME

SECTION CT : CONSERVATION OF TERRESTRIAL BIOLOGICAL COMMUNITIES

CHECK SHEET (Mark VII) FOR SURVEY OF IBP AREAS*

To be completed with reference to the GUIDE TO THE CHECK SHEET

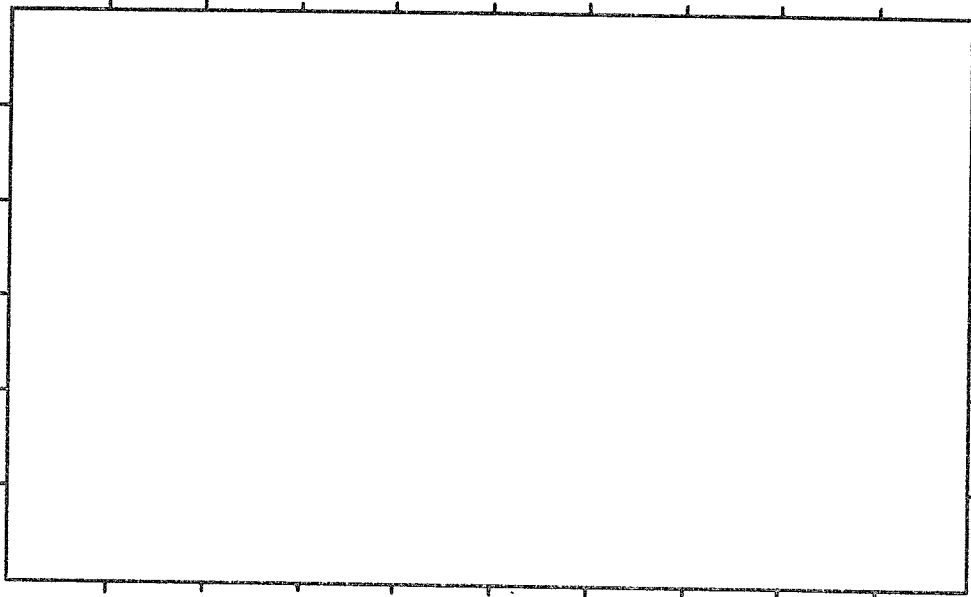
Serial Number

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For Data Centre Use only

1. 1. Name of surveyor *J. Pojar, **R.G. McMinn, ***S. Waddingham,
 *C. Parsons, *V.J. Krajina
 2. Address of surveyor *Dept. of Botany, Univ. of British Columbia, Vancouver, B.C.
 **Canada Dept. of Environment, Victoria, B.C.
 ***B.C. Forest Service, Prince George, B.C.
 3. Check Sheet completed (a) on siteX..... (b) from recordsX.....
 4. Date Check Sheet completedOct...25, 1974.....

2. 1. Name of IBP Area "Hungary Creek Hemlocks"
 2. Name of IBP Subdivision (or serial letter) IWH
 3. Map of IBP Area* showing boundaries attached? Yes ...X... No
 4. Sketch map of IBP Area*. Please mark direction of north, the scale and grid numbers where applicable.



* For "IBP Area", read IBP Area and/or IBP Subdivision.

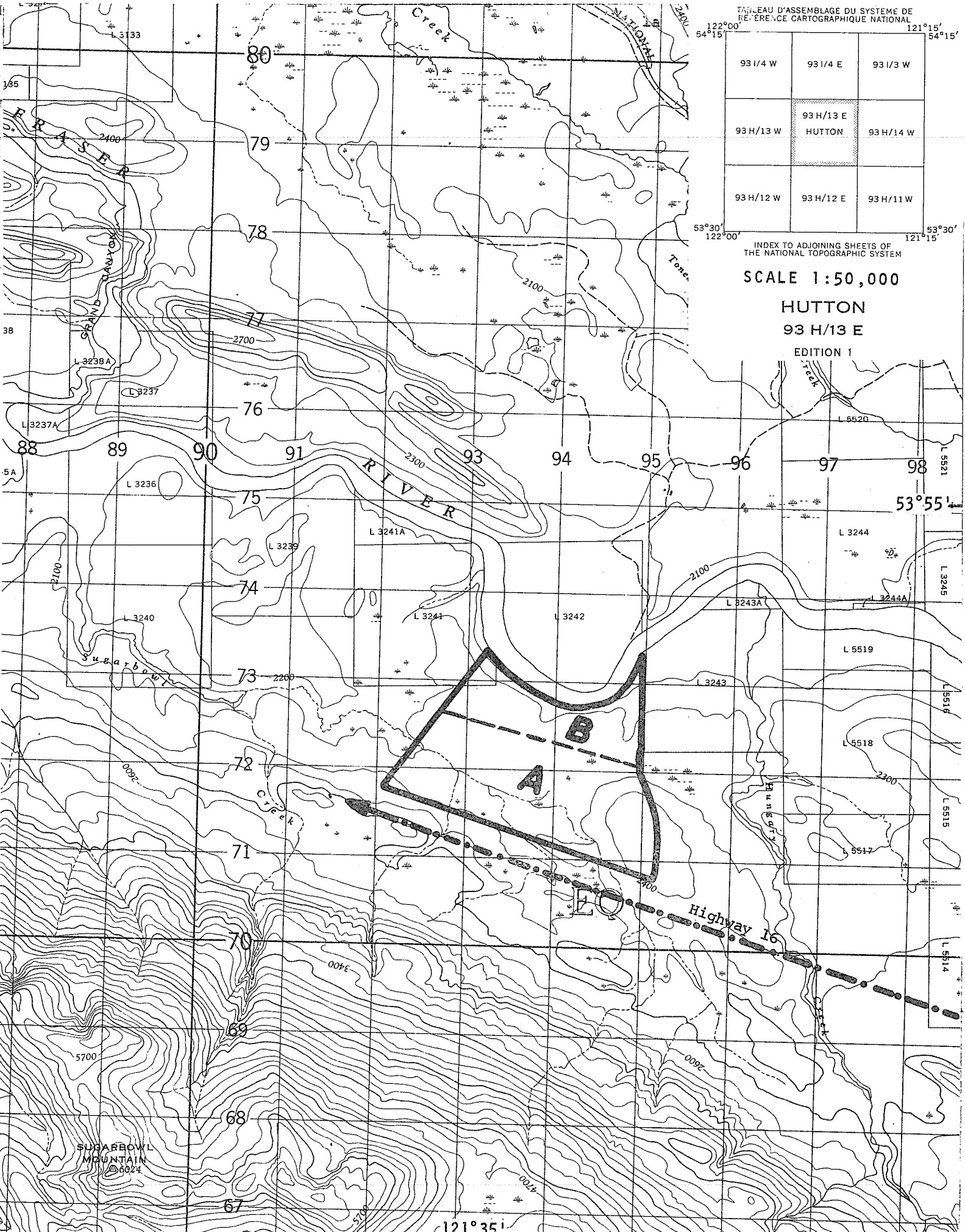


TABLEAU D'ASSEMBLAGE DU SYSTEME DE
 REFERENCE CARTOGRAPHIQUE NATIONAL

93 I/4 W	93 I/4 E	93 I/3 W
93 H/13 W	93 H/13 E HUTTON	93 H/14 W
93 H/12 W	93 H/12 E	93 H/11 W

INDEX TO ADJOINING SHEETS OF
 THE NATIONAL TOPOGRAPHIC SYSTEM

SCALE 1:50,000
 HUTTON
 93 H/13 E
 EDITION 1

SUGARBOWL
 MOUNTAIN
 6024

121°35'

3. Location of IBP Area*

1. Latitude ... 53 ° 52.6-54.1' N Longitude ... 121 ° 33.4-36.2' W
2. Country ... Canada
- State or Province British Columbia County Prince George
- (State or Province County)

4. Administration

- National 1. Official category Crown Land
2. Address of administration .. B.C. Dept. of Lands, Forests and Water
 - Resources
 - Victoria, B.C.
 -
 -

International Class

3.	Included in U.N. List	Rejected from U.N. List	Area with formal conservation status	No formal cons. status
	(A)	(B)	(C)	(D) X

5. Characteristics of IBP Area*

1. Surface area (state units of measurement) 1200 acres
2. Altitude (state units of measurement) Maximum ... 2400 ft. ... (730 m)
- Minimum ... 2100 ft. ... (640 m)

6. Climate

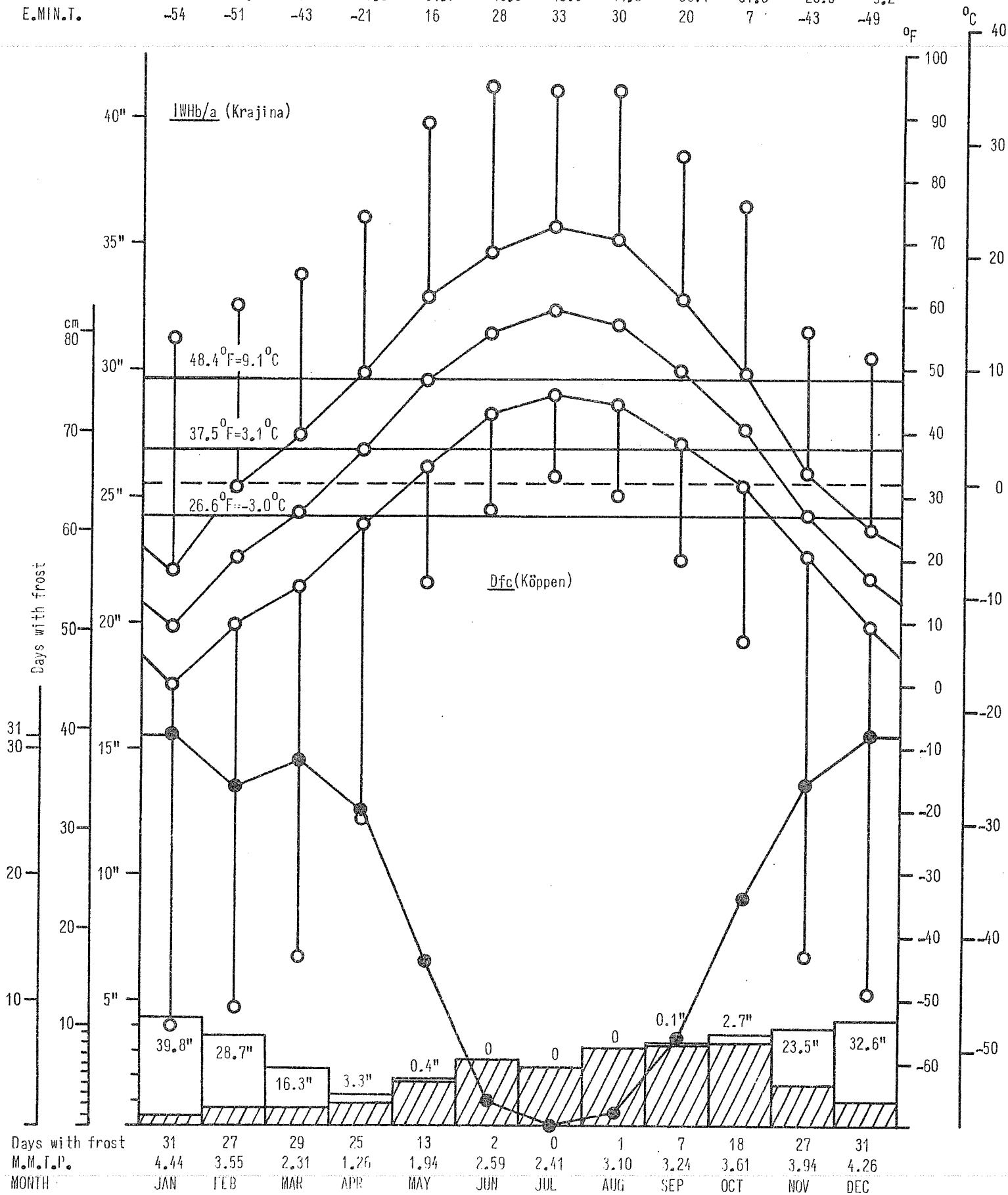
Nearest climatological station :

1. Name Aleza Lake
2. Climatological station on IBP Area*? Yes No ...X....
3. If (2) not, distance from edge of IBP Area* (state units) ... 30 mi.
4. Direction from IBP Area* ... N.W.
5. Additional data sheet attached? Yes ...X.... No
- Aleza Lake

ALEZA LAKL 54°07'N, 122°04'W, 2050' ASL. Record: 15-19 years, adjusted.

Months above 50°F: 3, below 32°F: 5, A.M.T.P.: 36.55", A.M.S.F.: 147.4", snow % A.M.T.P.: 40.21, days with frost, yearly: 211.

E.MAX.T.	55	60	65	74	89	95	94	94	84	76	56	52
M.D.MAX.T.	18.5	31.6	39.3	49.6	61.6	68.3	72.5	70.2	61.2	49.2	33.7	24.9
M.D.T.	9.6	20.7	27.6	37.7	48.1	55.7	59.3	57.3	49.8	40.5	27.0	17.1
M.D.MIN.T.	0.0	9.8	15.9	25.9	34.5	43.0	46.0	44.8	38.4	31.8	20.3	9.2
E.MIN.T.	-54	-51	-43	-21	16	28	33	30	20	7	-43	-49



"Hungary Creek Hemlocks"Partial species list

trees: Abies lasiocarpa
Betula papyrifera
Picea engelmannii, P. glauca
Populus trichocarpa
Thuja plicata
Tsuga heterophylla

shrubs: Alnus tenuifolia
Corylus cornuta
Oplopanax horridus
Ribes lacustre
Salix scouleriana
Sambucus racemosa
Vaccinium membranaceum, V. ovalifolium

herb layer:

Aralia nudicaulis
Athyrium filix-femina
Carex laeviculmis, C. mertensii
Cinna latifolia
Circaea alpina
Clintonia uniflora
Cornus canadensis
Dryopteris austriaca
Equisetum arvense, E. pratense
Galium triflorum
Goodyera oblongifolia
Gymnocarpium dryopteris
Habenaria saccata
Lycopodium annotinum
Lysichitum americanum
Matteucia struthiopteris
Moneses uniflora
Poa palustris
Pyrola asarifolia
Pyrola secunda
Rubus pedatus
Stellaria crispa
Streptopus amplexifolius, S. roseus, S. streptopoides
Tellima grandiflora
Thelypteris phegopteris
Tiarella trifoliata, T. unifoliata
Urtica dioica (= U. lyallii)
Viola glabella

bryophytes:

Hylocomium splendens
Marchantia polymorpha
Mnium insigne, M. punctatum
Pleurozium schreberi
Pohlia cruda
Ptilium crista-castrensis
Sphagnum squarrosum

lichens:

Lobaria pulmonaria
Hypogymnia physodes
Peltigera apthosa
Platismatia glauca

7.
(cont.)

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Soil

Community Reference Number	Soil type	Other notes
1	ABC F ₅	Humo - Ferric Podzol
2	ABC F ₅	Humo - Ferric Podzol
3	AGC/ABC P ₂ /F ₅	Gleyed Humo - Ferric Podzol
4	AC I ₂	Regosol
5	ABC F ₅	Mini Podzol
6	AGC P ₁ /P ₂	Gleysol (with Black Muck)
7	AC/AGC I ₂ /P ₁	Gleyed Regosol
8	AC I ₂	Regosol
9	AC I ₂	Regosol
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

9. Landscape

1. General Landscape (give brief description) Alluvial flats and flood plain along the Fraser River.

2. Relief Type	Flat	Undulating (0)-200 m.	Hilly 200-1000 m.	Mountainous > 1000 m.	%
Sharply dissected					
Gently dissected			100		100
Incised					
Skeletonised					
%			100		100%

3. Special landscape features (list)

10. Coastline of IBP Area* none

1. Protected bays and/or inlets Many Few None

2. Substratum. % of coast

Rock	Boulder Beach	Shingle Beach	Sand Beach	Shell Beach	Mud	Coral	Ice
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Physiography. % of coast

Cliffed	Sloping	Flat
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. Special Coastal Features (list)

5. Tide. Maximum range (state units of measurement)

6. Total length of coastline :

Less than 1 km. 1-10 km. Above 10 km.

11. Freshwater within IBP Area*

1.

	Permanent	Intermittent
General	X	X
Standing	X	
Running		X

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps	X		X	
Ponds				
Lakes				

3. Running Water

	Permanent	Intermittent
Springs, cold		
Springs, hot		
Streams		X
Rivers		

4. Special freshwater features

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12. Salt and Brackish Water within IBP Area*

NONE

Salt Lakes	<input type="checkbox"/>	Lagoon	<input type="checkbox"/>	<input type="checkbox"/>
Estuaries	<input type="checkbox"/>	Salt pools	<input type="checkbox"/>	<input type="checkbox"/>

13. Adjacent Water Bodies (not within IBP Area*)

1. Fresh Lake River Stream Hungary Creek, Sugarbowl Creek
Fraser River

2. Salt and Brackish NONE

Estuary	Salt lake	Salt pool	Lagoon	Ocean		

14. Outstanding Floral and Faunal Features

1. None

2. Fauna

	Species diversity	Abundance of individuals	Superabundance of individuals	Rare species	Threatened/Relict species	Spp. of biogeographical interest	Exceptional Associations	Breeding or Nesting Populations	Migrating Populations	Wintering Populations		
Mammalia		X						X	X	X		
Aves		X						X	X	X		
Reptilia												
Amphibia		X										
Pisces												
Insecta		X						X	X	X		

3. Names of main threatened, endemic, relict and rare species

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4. Flora

	Species diversity	Abundance of particular species	Rare species	Threatened/relict species	Spp. of biogeographical interest	Exceptional associations	Outstanding specimens				
Angiospermae :											
trees		X					X				
shrubs		X			X		X				
herbs		X			X		X				
grass		X					X				
Gymnospermae		X			X		X				
Pteridophyta		X			X		X				
Bryophyta		X			X		X				
Lichens and Algae		X			X		X				

5. Names of main threatened, endemic, relict and rare species

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15. Exceptional Interest of IBP Area*

..... Virgin, mature, lowland forest types of the interior western
 hemlock biogeoclimatic zone (which become rare and used to be
 common in this geographic area).

16. Significant Human Impact

1. General : None in entire IBP Area*
 None in part of IBP Area* X
 Impact on entire IBP Area*

2. Particular

	Past impact	Present impact	Trend			
			Increasing	Decreasing	No change	No information
Cultivation					X	
Drainage		X				
Other soil disturbance					X	
Grazing					X	
Selective flora disturbance					X	
Logging					X	
Plantation					X	
Hunting		X	X			
Removal of predators					X	
Pesticides					X	
Introductions — plants		?	?			
Introductions — animals					X	
Fire					X	
Permanent habitation					X	
Recreation and tourism		X			X	
Research					X	

Highway 16 intercepts downslope drainage & seepage

3. Additional details on each type of impact attached?

Yes No X

17. Conservation Status

	Protection			Utilisation			Conservation Management			Permitted Research		
	none	partial	total	none	controlled	uncontrolled	none	to alter status	to maintain status	experimental	observational	prohibited
Flora			X	X					X		X	
Fauna			X	X					X		X	
Non-living			X	X					X		X	

18. References

1. List major biological/geographical references for the IBP Area.

Sheet attached? Yes NoX.....

2. List main maps available for the IBP Area.

List attached? Yes NoX..... 93H/13E

3. Aerial photographs for the IBP Area available?

For whole areaX..... For part of area None

19. Other Relevant Information

For future silvicultural application in secondary forest development it becomes imperative to conserve some samples of virgin nature as it is represented by this area.

Signed Jim Pojar, R.G. McMinn,

(Surveyor)

S. Waddingham, C. Parsons, V.J. Krajina

V.J. Krajina