

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.)

Tamarack bog, north of Tamarack and Bednesti Lakes along the Highway 97, about 30 miles west of Prince George

3. Indicate the biogeoclimatic zone of which the reserve is representative.

CALPDF and SBS, transition

4. Approximate total acreage.

157 acres

5. Purpose of the reserve.

To preserve the only tamarack (Larix laricina) stand, occurring in the SBS/CALPDF (this area should be assigned rather to the SBS zone.)

(a) Primary (state acreage)

157 acres

(b) Others if any (state acreage)

nil

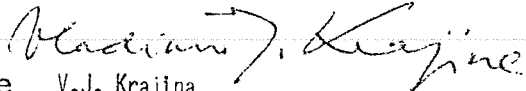
(c) Buffer areas (state acreage)

nil

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.

Unproductive Larix laricina, Picea mariana and a small amount of Picea glauca (and their hybrids)
Some aspen (Populus tremuloides) is present, too.

Signature


V.J. Krajina

I.B.P. Surveyor

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

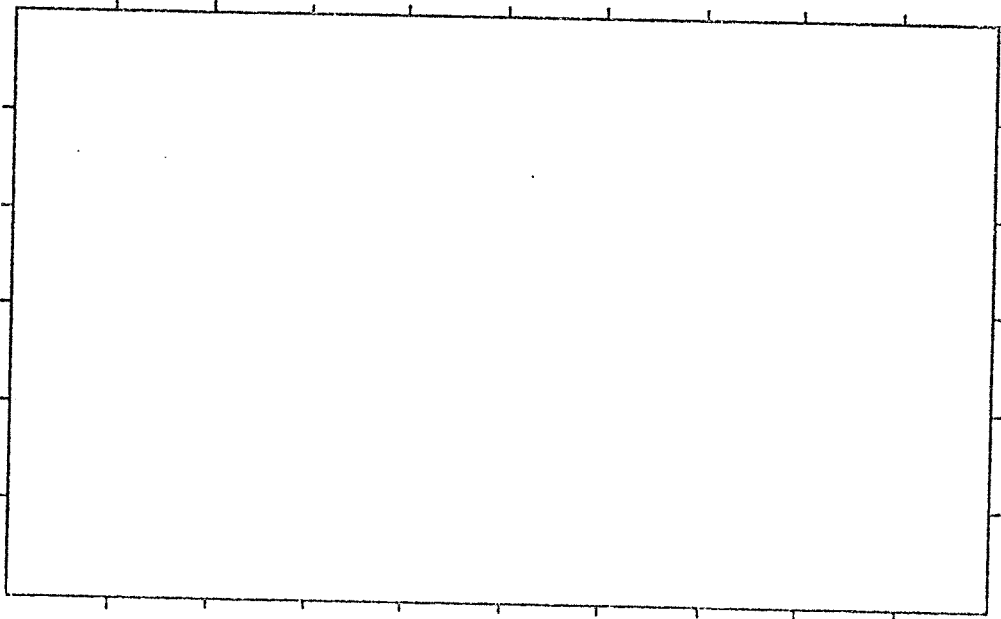
Serial Number

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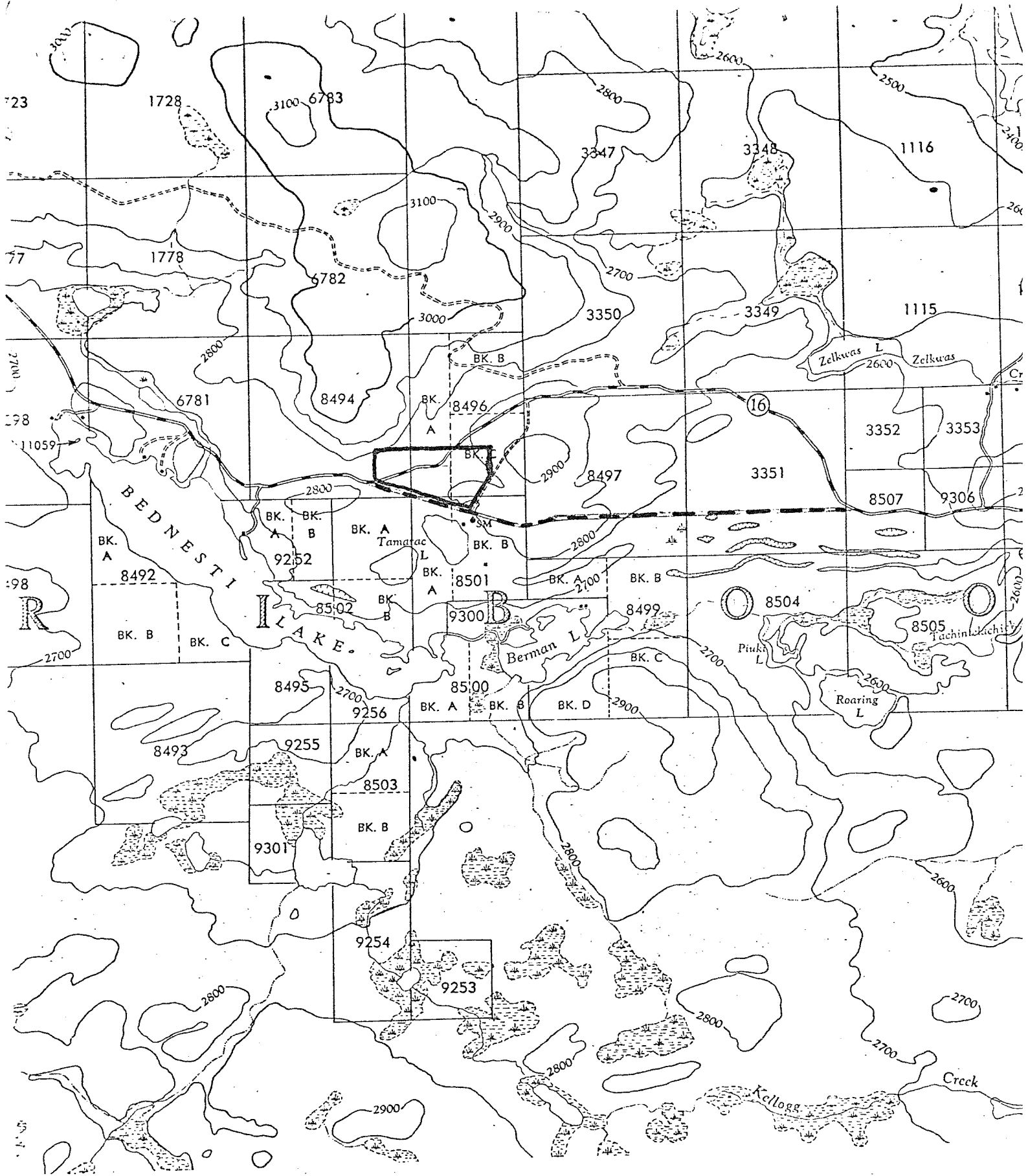
For Data
Centre U
only

1. 1. Name of surveyor V.J. Krajina* and John Revel
2. Address of surveyor * Department of Botany, University of British Columbia,
Vancouver 8, B.C., Canada
3. Check Sheet completed (a) on site X (b) from records X
4. Date Check Sheet completed November 28, 1973

2. 1. Name of IBP Area Tamarack bog, north of Tamarack and Bednesti Lakes, along the Highway 97,
about 30 miles from Prince George and 30 miles from Vanderhoof, Nechako Plain
2. Name of IBP Subdivision (or serial letter) CALPDF, SBS, transition
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.



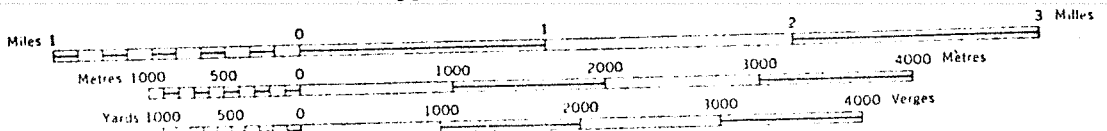
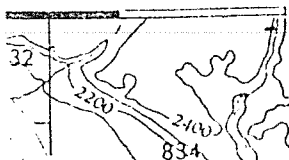
C SERIES

1:50,000

ISLE PIERRE

FIRST EDITION

SCALE 1:50,000 ÉCHELLE



3. Location of IBP Area*

1. Latitude 53 ° 52' - 52.3' N Longitude 123 ° 20.5' - 21.5' 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. Department of Lands, Forests and Water Resources,
Victoria, B.C., Canada
-
-
-

International Class

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) 131 acres
2. Altitude (state units of measurement) Maximum ± 2900' (870m)
- Minimum 2800' (840m)

6. Climate

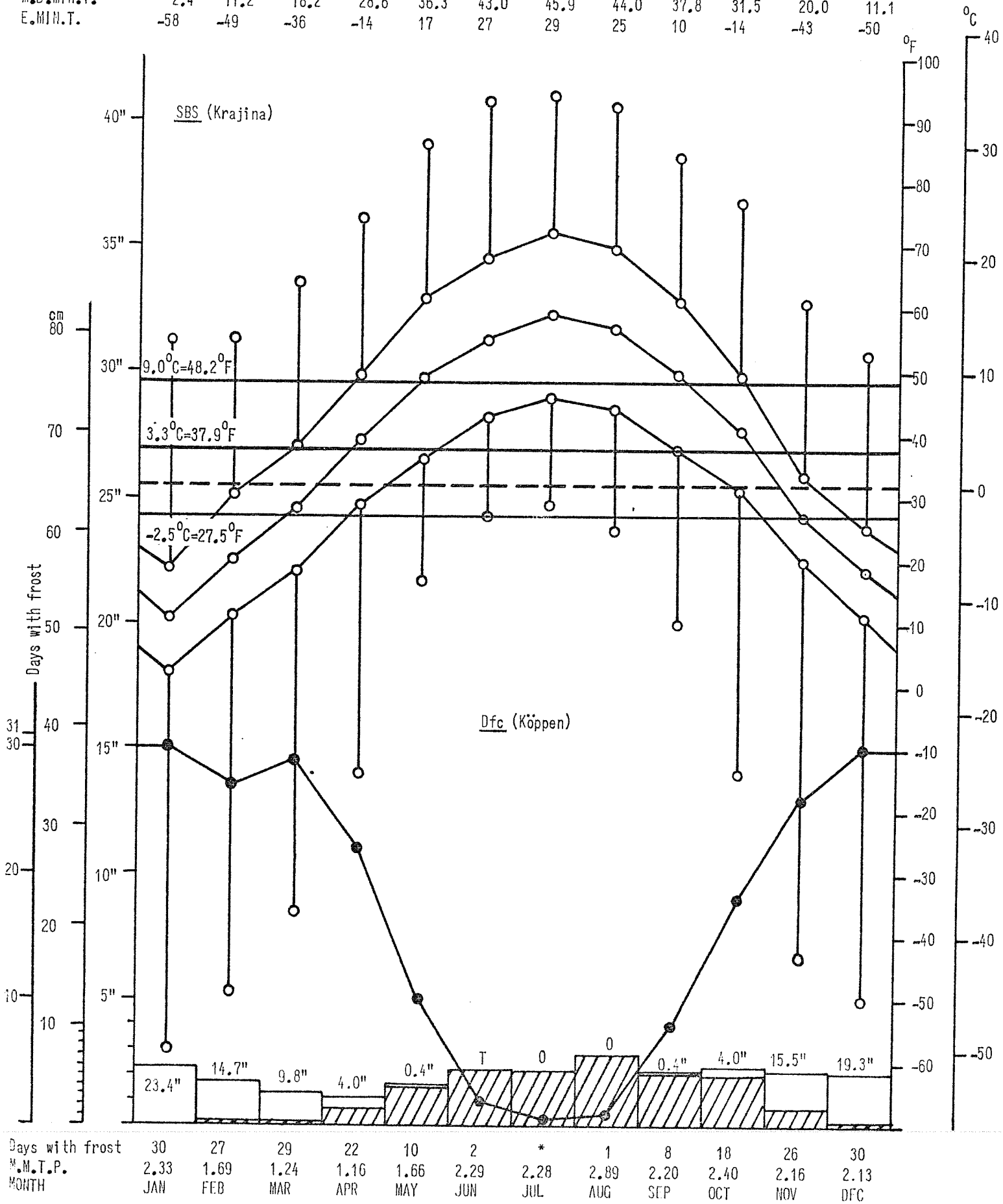
Nearest climatological station :

1. Name Prince George
2. Climatological station on IBP Area*? Yes No X
3. If (2) not, distance from edge of IBP Area* (state units) 25 miles
4. Direction from IBP Area* East
5. Additional data sheet attached? Yes No X

PRINCE GEORGE AIRPORT 53°53'N, 122°40'W, 2218' ASL. Record: 25-29 years.

Months above 50°F: 3, below 32°F: 5, A.M.T.P. 24.43", A.M.S.F. 91.9", snow % A.M.T.P.: 37.61, days with frost, yearly: 203.

E.MAX.T.	55	55	64	74	86	93	94	92	84	77	61	53
M.D.MAX.T.	19.0	30.5	38.3	49.6	61.6	67.8	71.8	69.4	61.5	49.3	33.8	25.4
M.D.T.	10.7	20.8	28.3	39.1	49.0	55.4	58.9	56.7	49.7	40.4	26.9	18.3
M.D.MIN.T.	2.4	11.2	18.2	28.6	36.3	43.0	45.9	44.0	37.8	31.5	20.0	11.1
E.MIN.T.	-58	-49	-36	-14	17	27	29	25	10	-14	-43	-50



7. Vegetation and Soil

1

Vegetation

Community Reference Number	Vegetation Code					Plant communities (give usual name using full Latin names of a species where applicable)	Area (state units)
	Primary Structural Group	Class	Group	Formation	Sub-Formation		
1	1	A	2	2		Sphagno (subnitentis) - Tomenthypno (nitentis) - Carico (aquatilis) - Calamagrostido (canadensis) - Laricetum laricinae	
2	1	A	1	7	a	Sphagno (recurvi - capillacei) - Ledo (groenlandici) - Piceetum marianae	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Please give information about further communities on a separate sheet

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	A 0	Low moor bog (pH of humus 6.8, measured)
2	A 0	High moor bog (pH of humus about 4.0, estimated)
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

11. Freshwater within IBP Area*

1.

	Permanent	Intermittent
General		
Standing	X	
Running		

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps	X			
Ponds				
Lakes				

3. Running Water

	Permanent	Intermittent
Springs, cold	?	
Springs, hot		
Streams		
Rivers		

4. Special freshwater features Evidently this bog area is rich in Ca as evidenced by plants.

12. Salt and Brackish Water within IBP Area*

nil

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

Tamarack Lake and Bednestj Lake

2. Salt and Brackish

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		?										
Aves		X										
Reptilia												
Amphibia		X										
Pisces												
Insecta		X										

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

 Fauna needs to be surveyed

4. Flora

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

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

Ranunculus lapponicus (in its most southern distribution), Rubus arcticus (besides common Rubus pubescens), Betula pumila and especially Larix laricina (the only habitat west of the Rockies).

15. Exceptional Interest of IBP Area*

Most outstanding habitat between Vanderhoof and Prince George. It is endangered by road building progress, but it is one of the most interesting ecosystems that needs to be preserved. The occurrence of Ranunculus lapponicus suggests that this locality keeps some relicts after glaciation.

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					?	
Other soil disturbance					?	
Grazing					?	
Selective flora disturbance					X	
Logging			X			
Plantation					X	
Hunting			X			
Removal of predators			?			
Pesticides					X	
Introductions — plants			X			
Introductions — animals					X	
Fire					?	
Permanent habitation					X	
Recreation and tourism			X			
Research			X			

Drainage was effected by the new road.

3. Additional details on each type of impact attached?

Yes No X

17.

Conservation Status Future

	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 No

2. List main maps available for the IBP Area.

List attached? Yes No

3. Aerial photographs for the IBP Area available?

For whole area X For part of area None

19.

Other Relevant Information

One of the few areas, which must be preserved.

Vladimir Krajinac

Signed V.J. Krajinac and John Revel
(Surveyor)