

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.)

32 miles south of B.C. - Yukon border on Cassiar-Watson Lake road, immediately east of the road. (centered about $59^{\circ}31'$, $129^{\circ}18'$)

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

Boreal White Spruce

4. Approximate total acreage.

1,870 acres

5. Purpose of the reserve.

To preserve wide spectrum of plant associations within the Boreal White Spruce Zone.

(a) Primary (state acreage)

1,870 acres

(b) Others if any (state acreage)

(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.

Picea glauca, P. mariana, Pinus contorta, Larix laricina, Populus balsamifera.

Jim Pojar K. I. Beamish
L.K.Wade, K.I.Beamish, J.Pojar,
Signature G.Otto and A.Guppy
I.B.P. Surveyor

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

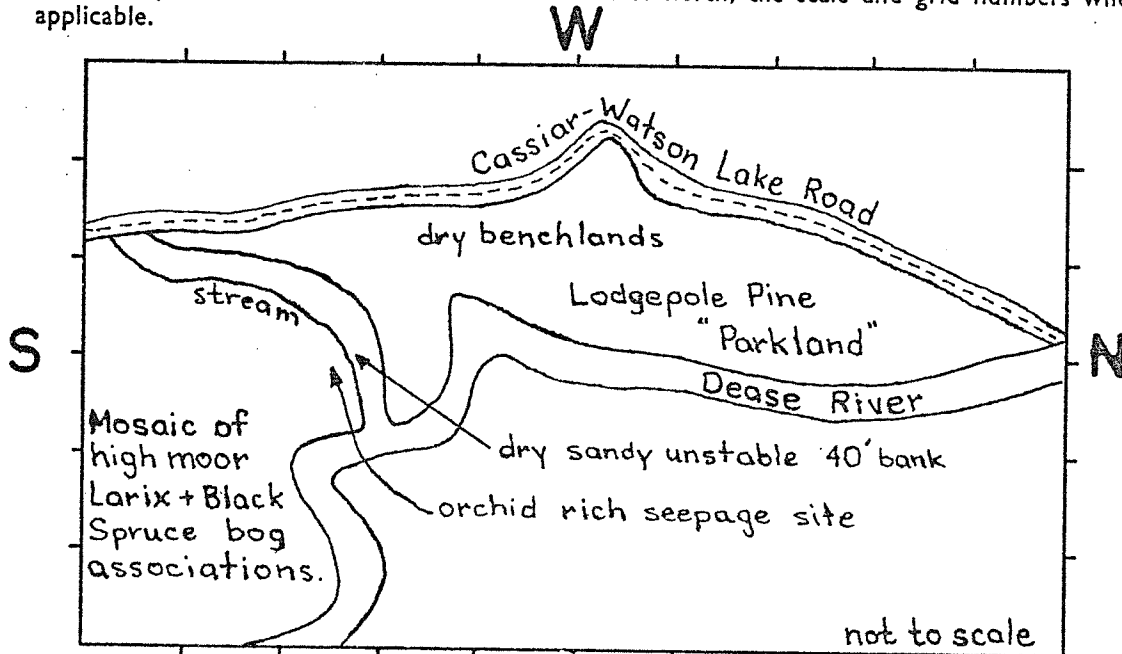
Serial Number

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For Data Centre Use only

1. Name of surveyor L.K.Wade, K.I.Beamish, J.Pojar, G.Otto, A.Guppy.
2. Address of surveyor Dept. of Biology, Dept. of Botany,
Capilano College, + University of British Columbia,
North Vancouver, B.C. Vancouver 8, B.C.
3. Check Sheet completed (a) on site X (b) from records
4. Date Check Sheet completed July 1973

2. 1. Name of IBP Area 32 miles south of B.C.- Yukon border on Cassiar-Watson Lake road, immediately east of the road.
2. Name of IBP Subdivision (or serial letter)
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.



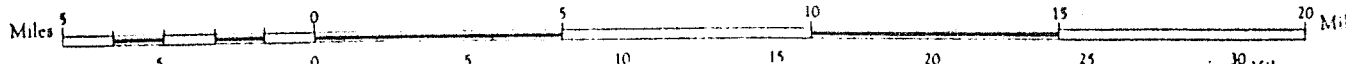
* For "IBP Area", read IBP Area and/or IBP Subdivision.



MCDAME

BRITISH COLUMBIA

Scale 1 : 250,000
 Approximately 4 Miles to 1 Inch.



3. Location of IBP Area*

1. Latitude 59° 31' N/~~W~~ Longitude 129° 18' ~~E~~/W
2. Country Canada
 State or Province British Columbia County Prince Rupert
 (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.
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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)

5. Characteristics of IBP Area*

1. Surface area (state units of measurement) 1,870 acres
2. Altitude (state units of measurement) Maximum 2500' (750m)
 Minimum 2400' (735m)

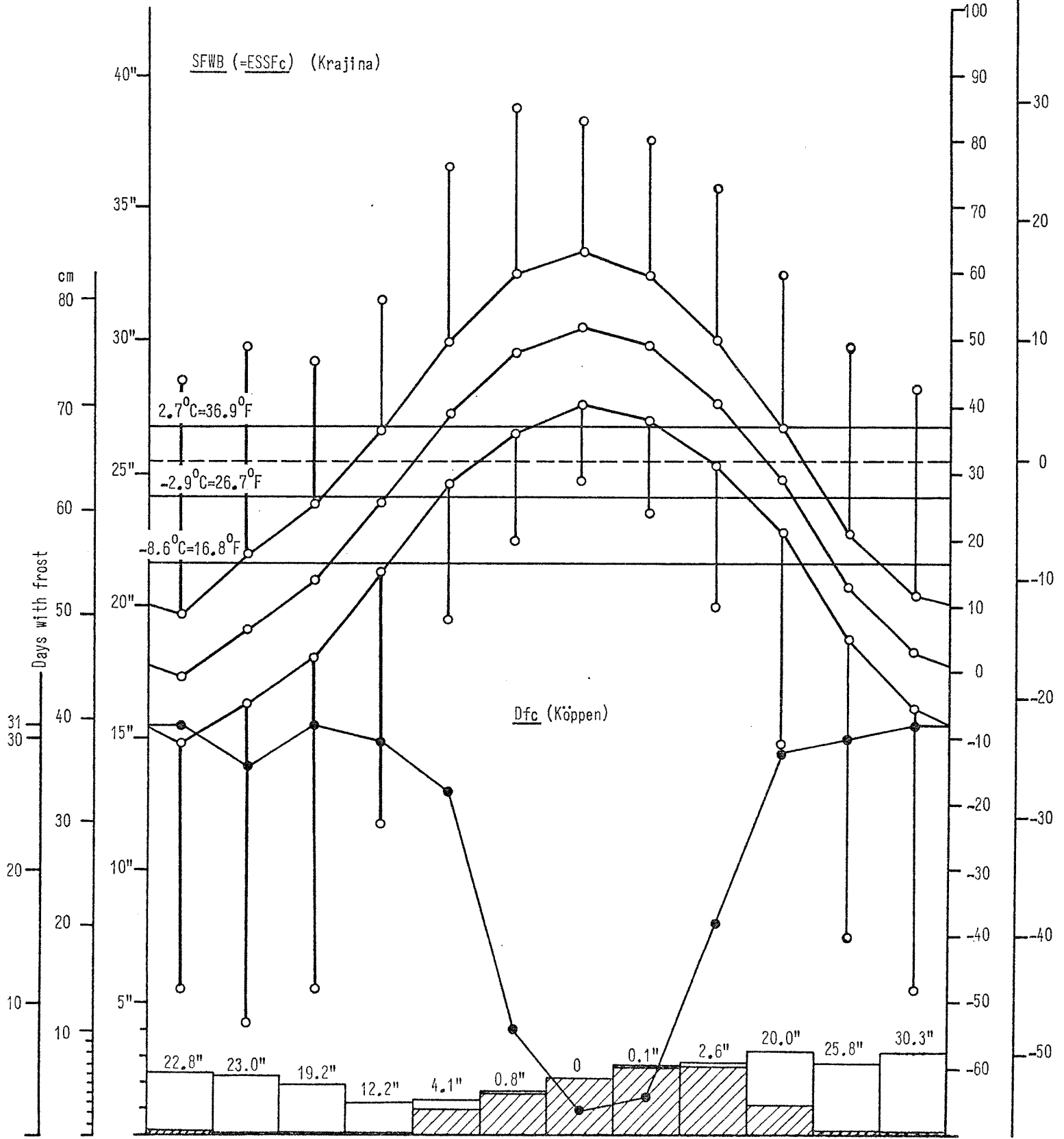
6. Climate

- Nearest climatological station :
1. Name Cassiar (compare with Watson Lake)
2. Climatological station on IBP Area*? Yes No X.....
3. If (2) not, distance from edge of IBP Area* (state units) 26 mi.
4. Direction from IBP Area* North
5. Additional data sheet attached? Yes X..... No

CASSIAR 59°17'N, 129°51'W, 3535' ASL. Record: 11-17 years, adjusted.

Months above 50°F: 1, below 32°F: 7, A.M.T.P. 27.57", A.M.S.F. 160.9", snow % A.M.T.P.: 58.36, days with frost, yearly: 265.

E.MAX.T.	44	49	47	56	76	85	83	80	73	60	49	43
M.D.MAX.T.	9.4	17.9	25.5	36.4	49.9	60.0	63.4	59.9	50.2	37.0	20.9	11.8
M.D.T.	-0.6	6.6	13.9	25.8	39.2	48.0	52.0	40.2	40.9	29.3	13.0	3.0
M.D.MIN.T.	-10.6	-4.8	2.2	15.1	28.4	35.9	40.5	38.5	31.5	21.6	5.1	-5.8
E.MIN.T.	-48	-53	-48	-23	8	20	29	24	10	-11	-40	-48

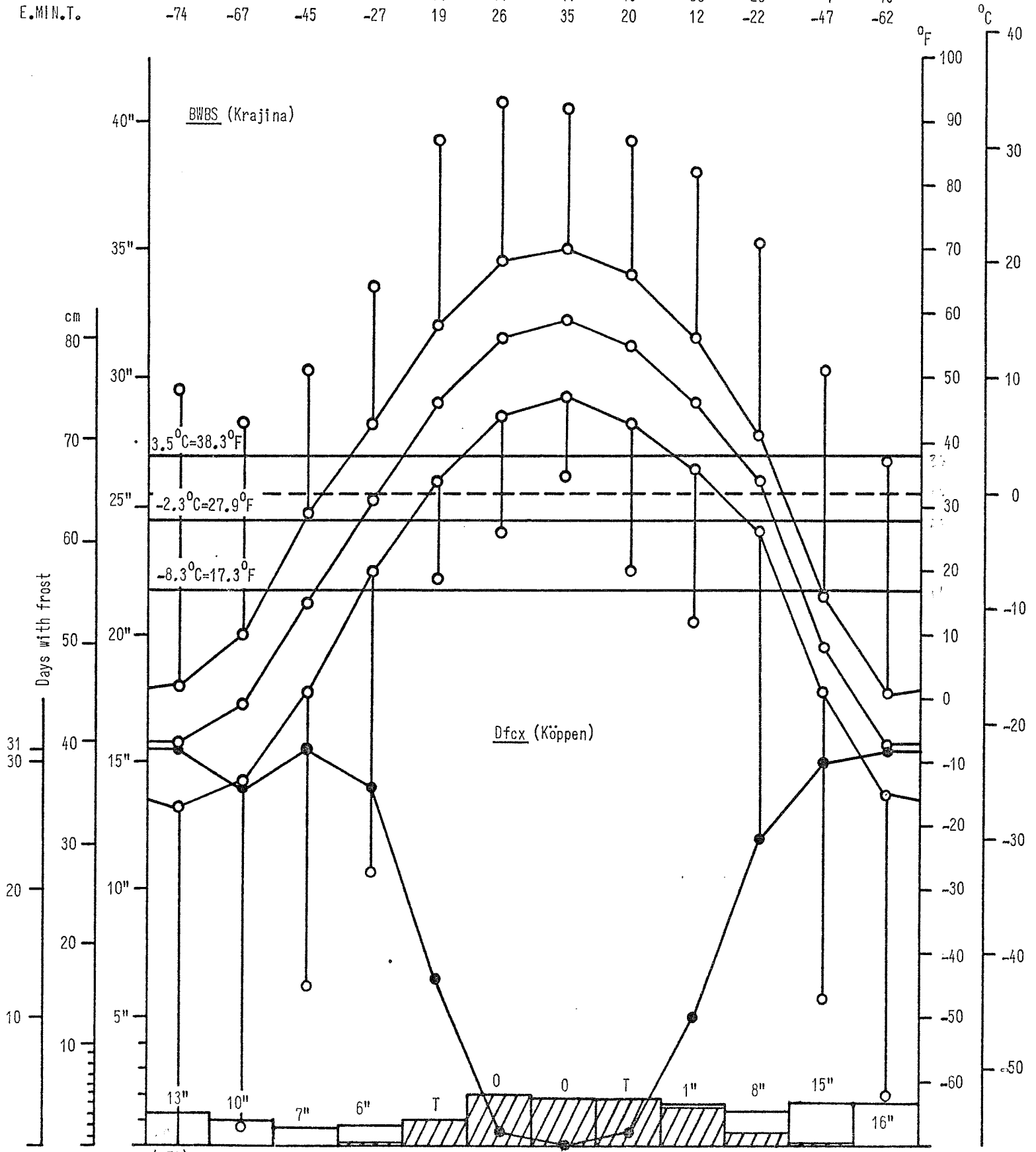


Days with frost 31 28 31 30 26 8 2 3 16 29 30 31
M.M.T.P. 2.42 2.32 1.96 1.25 1.42 1.70 2.14 2.62 2.75 3.17 2.71 3.11
MONTH JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

WATSON LAKE 60°07'N, 128°48'W, 2248' ASL. Record: 13 years.

Months above 50°F: 3, below 32°F: 6, A.M.T.P. 16.7", A.M.S.F. 76.0", snow % A.M.T.P.: 45.50, days with frost, yearly: 228.

E.MAX.T.	48	43	51	64	87	93	92	87	82	71	51	37
M.D.MAX.T.	2	10	29	43	58	68	70	66	56	41	16	1
M.D.T.	-7	-1	15	31	46	56	59	55	46	34	8	-7
M.D.MIN.T.	-17	-13	1	20	34	44	47	43	36	26	1	-15
E.MIN.T.	-74	-67	-45	-27	19	26	35	20	12	-22	-47	-62



Days with frost	31	28	31	28	13	1	0	1	10	24	30	31
M.M.T.P.	1.3	1.0	0.7	0.8	1.0	2.0	1.9	1.9	1.6	1.3	1.6	1.6

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	1		<u>Populus-Shepherdia-Rosa-Festuca</u>	
2	1	A	1	7	a	<u>Pinus-Arctostaphylos-Cladonia-Geocaulon</u>	
3	1	A	1	7	a	<u>Pinus-Picea glauca-Juniperus-Saxifraga</u> <u>tricuspidata</u>	
4	2	F	2	1		<u>Elaeagnus commutata-Artemisia-Penstemon</u> <u>gormanii</u>	
5	1	D	2	2	c	<u>Larix-Arctostaphylos rubra-Pedicularis</u> <u>groenlandica</u>	
6	1	M	2	1		<u>Carex-Ranunculus</u>	
7	1	B	3	d		<u>Picea mariana-Ledum-Potentilla fruticosa</u>	
8	1	A	1	7	a	<u>Picea glauca-Populus-Cypripedium-Amerorchis</u>	
9	1	A	2	1		<u>Alnus-Populus balsamifera-Hedysarum</u>	
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

9. Landscape

1. General Landscape (give brief description) In part gently undulating benchland, bordered by a steep sandy unstable bank, below which is undulating bog-filled valley bottom.

2. Relief Type

	Flat	Undulating (0)-200 m.	Hilly 200-1000 m.	Mountainous > 1000 m.	%
Sharply dissected			5		5
Gently dissected			95		95
Incised					
Skeletonised					
%			100		100%

3. Special landscape features (list) Steep sandy unstable bank ca. 30-40° high, 1 mile long; high moor bog; streams.

10. Coastline of IBP Area*

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)

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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		
Standing	X	?
Running	X	?

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps	X			?
Ponds	X			?
Lakes				

3. Running Water

	Permanent	Intermittent
Springs, cold		
Springs, hot		
Streams	X	
Rivers	X	

4. Special freshwater features Dease River is eastern border of proposed reserve.

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
Dease River

2. Salt and Brackish nil

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										
Aves	X											
Reptilia												
Amphibia												
Pisces												
Insecta	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											
shrubs		X									
herbs	X		X		X						
grass											
Gymnospermae		X									
Pteridophyta											
Bryophyta		X									
Lichens and Algae		X									

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

Cypripedium passerinum } not rare but of great
 }
Amerochis rotundifolia } interest.
 }
Penstemon gormanii }
 }

15. Exceptional Interest of IBP Area*

Excellant spectrum of dry benchland, unstable sandy slope, rich

 seepage area and variety of high moor bog associations. Plant species

 diversity considerable.

16. Significant Human Impact

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

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					?	
Pesticides					X	
Introductions — plants					X	
Introductions — animals					X	
Fire	X	X				
Permanent habitation					X	
Recreation and tourism					X	
Research					X	

(extent not known)

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					
Fauna	X*					X*	X					
Non-living	X					X	X					

* Except for species under game laws.

18. References

- List major biological/geographical references for the IBP Area.
Sheet attached? Yes No **X**
- List main maps available for the IBP Area. **Nat. Topo. Series**
Sheet 104P-McDame, 1:250,000
List attached? Yes No
- Aerial photographs for the IBP Area available?
For whole area **X** For part of area None

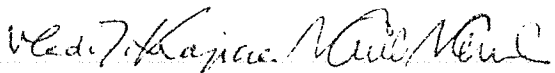
19. Other Relevant Information

L.K. Wade *Jim Pojar K.I. Beamish*
L.K.Wade, K.I.Beamish, J.Pojar,
Signed **G.Otto, and A.Guppy.**
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(Surveyor)

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.)
Opposite Shames (an old railway station), between railway and Skeena River
3. Indicate the biogeoclimatic zone of which the reserve is representative.
CWHa
4. Approximate total acreage.
111 acres
5. Purpose of the reserve.
To preserve an easily accessible small area of alluvial flood plain with Sitka spruce.
 - (a) Primary (state acreage)
No. 3: 18 acres
 - (b) Others if any (state acreage)
No. 2: 56 acres
 - (c) Buffer areas (state acreage)
No. 1: 37 acres
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.

Picea sitchensis, Thuja plicata, Tsuga heterophylla, Abies amabilis (very little), Populus trichocarpa, Alnus rubra, Populus tremuloides (these few trees should remain here as easily observable part of magnificent scenery which would be worsened by their removal.


Signature V.J. Krajina and K. Klinka
I.B.P. Surveyor