

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.)  
Rocky Mountain juniper above a quarry east of Tyhee Lake near Telkwa,  
part of a Lot 31
3. Indicate the biogeoclimatic zone of which the reserve is representative.  
SBS
4. Approximate total acreage.  
+112 acres
5. Purpose of the reserve.  
To conserve an outstanding Juniperus scopulorum savanna steppe, unique in the SBS
  - (a) Primary (state acreage)  
112 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.  
Juniperus scopulorum, Populus tremuloides, Acer glabrum, commercial value almost nil.

*V.J. Krajina*  
V.J. Krajina, Jim Pojar,  
Signature \_\_\_\_\_

I.B.P. Surveyor  
George Koopmans and Calvin P...

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

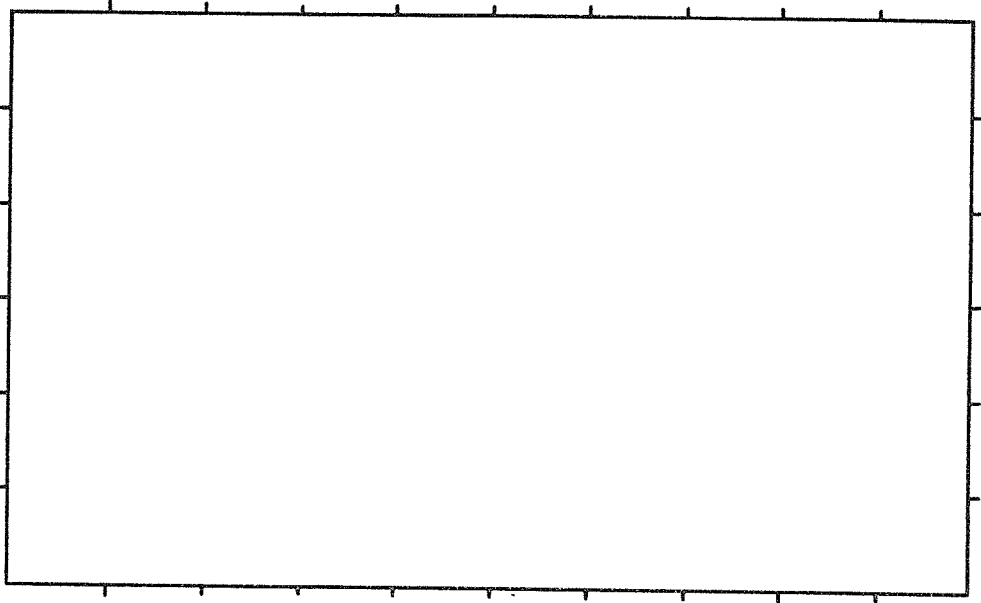
Serial Number

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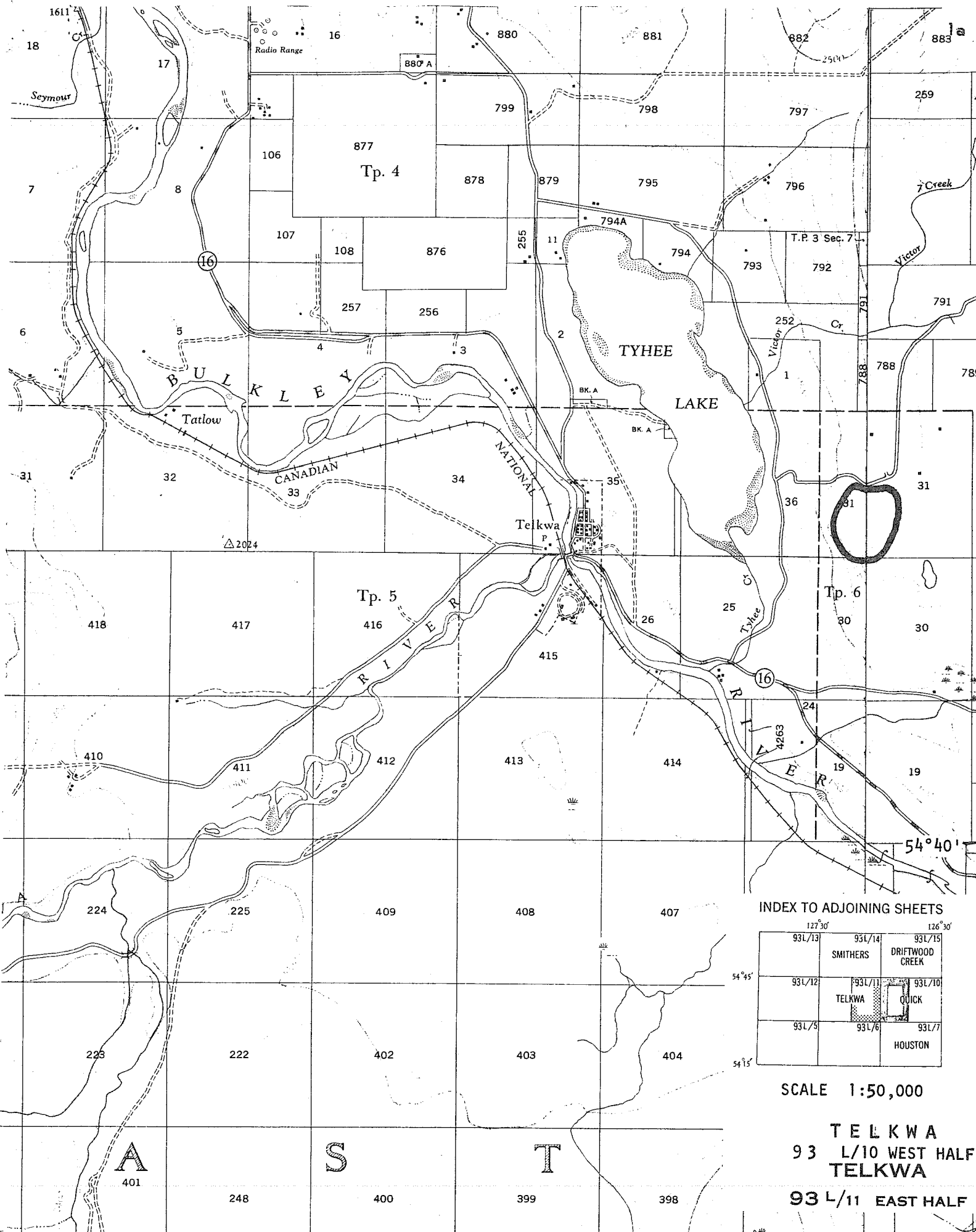
For Data Centre Use only

1. 1. Name of surveyor V.J. Krajina, Jim Pojar, and Calvin Parsons  
 2. Address of surveyor Department of Botany  
University of British Columbia,  
Vancouver, B. C.  
 3. Check Sheet completed (a) on site X (b) from records X  
 4. Date Check Sheet completed October 28, 1974

2. 1. Name of IBP Area Rocky Mountain juniper savanna steppe above a quarry east of Tyhee Lake, part of the Lot 31  
 2. Name of IBP Subdivision (or serial letter) SBS  
 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.



INDEX TO ADJOINING SHEETS

127°30'	93L/13	93L/14	126°30'
	SMITHERS	DRIFTWOOD CREEK	
54°45'	93L/12	93L/11	93L/10
	TELKWA	QUICK	
	93L/5	93L/6	93L/7
54°15'		HOUSTON	

SCALE 1:50,000

TELKWA  
 93 L/10 WEST HALF  
 TELKWA  
 93 L/11 EAST HALF

3. Location of IBP Area\*

1. Latitude 54 ° 41.7 - 42.15 N Longitude 126° 59.65' - 127° 00.4' W
2. Country Canada
- State or Province British Columbia County Smithers
- (State or Province ..... County .....)

4. Administration

- National 1. Official category Part of the Lot 31, private property of Joe Hidber and family
2. Address of administration Joe Hidber,  
Telkwa, Hidber Road  
(near Smithers, 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) 112 acres
2. Altitude (state units of measurement) Maximum 2400' (732 m)  
Minimum 2000' (610 m)

6. Climate

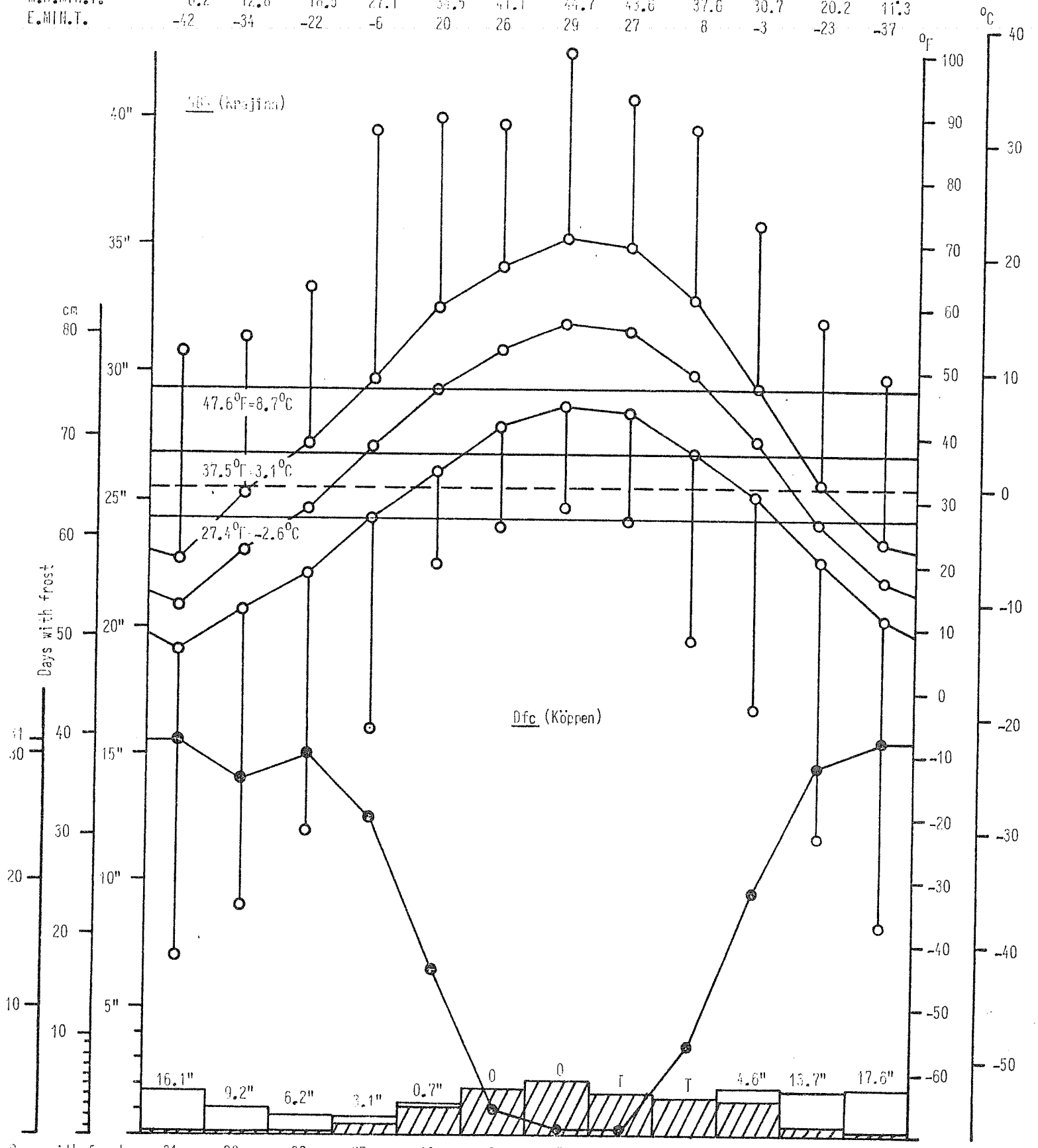
Nearest climatological station :

1. Name Telkwa
2. Climatological station on IBP Area\*? Yes ..... No X
3. If (2) not, distance from edge of IBP Area\* (state units) 1.5 mi.
4. Direction from IBP Area\* W.S.W.
5. Additional data sheet attached? Yes X No .....
- Telkwa

TELKWA 58°31'N, 126°50'W, 2240' A.L. Record: 25-46 years.

Monthly above 50°F: 3, below 32°F: 5, A.M.T.P.: 18.39", A.M.T.P.: 71.2", snow # A.M.T.P.: 38, 71, days with frost, yearly: 215.

E. MAX. T.	53	55	63	88	90	89	100	93	88	73	58	49
M.D. MAX. T.	20.9	31.2	39.0	48.9	60.0	66.2	70.4	69.7	61.6	47.6	32.3	23.8
M.D. T.	13.6	22.0	29.8	38.1	47.3	53.7	57.6	56.7	49.6	39.2	26.2	17.6
M.D. MIN. T.	6.2	12.8	18.5	27.1	34.5	41.1	44.7	43.6	37.6	30.7	20.2	11.3
E. MIN. T.	-42	-34	-22	-6	20	26	29	27	8	-3	-23	-37



Days with frost	31	28	30	25	13	2	*	*	7	19	29	31
M.M.T.P.	1.74	1.05	0.78	0.77	1.25	1.95	2.06	1.64	1.50	1.90	1.80	1.95
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

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	2	B	2	1		<u>Symphoricarpos albus</u> - <u>Amelanchier alnifolia</u> - <u>Agropyron caninum</u> ass.	
2	2	B	2	1		<u>Stipa columbiana</u> - <u>Stipa richardsonii</u> - <u>Rosa woodsii</u> ass.	
3	1	C	1	2	a	<u>Amelanchier alnifolia</u> - <u>Arctostaphylos uva-ursi</u> - <u>Abietinella abietina</u> ass.	
4	1	J	1	3		<u>Juniperus scopulorum</u> - <u>Senecio pauperculus</u> - <u>Disporum trachycarpum</u> - <u>Abietinella abietina</u> ass.	
5	1	G	2	1		<u>Sedum lanceolatum</u> - <u>Schizachne purpurascens</u> association	
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.

Juniperus scopulorum savanna steppe (Mr. Joe Hidber's property).

Partial list of plants:

Vascular  
plants:

*Acer glabrum*  
*Achillea lanulosa*  
*Agoseris aurantiaca*  
*Agropyron caninum*  
*Allium cernuum*  
*Amelanchier alnifolia*  
*Anemone multifida*  
*Antennaria rosea*  
*Arabis glabra*  
*Arabis holboellii*  
*Arctostaphylos uva-ursi*  
*Aster conspicuus*  
*Botrychium virginianum*  
*Bromus marginatus*  
*Carex aurea*  
*Carex backii*  
*Carex macloviana ssp. pachystachya*  
*Carex supina ssp. spaniocarpa*  
*Castilleja miniata*  
*Cerastium arvense*  
*Collinsia parviflora*  
*Delphinium glaucum*  
*Disporum trachycarpum*  
*Draba stenoloba*  
*Erysimum inconspicuum*  
*Festuca saximontana*  
*Fritillaria camtschatcensis*  
*Galium boreale*  
*Habenaria viridis*  
*Hieracium canadense*  
*Juniperus scopulorum*  
*Koeleria cristata*  
*Lathyrus nevadensis*  
*Lathyrus ochroleucus*  
*Moehringia lateriflora*  
*Penstemon procerus*  
*Phleum pratense*  
*Pinus contorta*  
*Poa glauca*  
*Poa interior*  
*Poa pratensis*  
*Rosa acicularis*  
*Rosa woodsii*  
*Rumex asetosa ssp. alpestris*  
*Schizachne purpurascens*  
*Sedum lanceolatum*  
*Senecio pauperculus*

Vascular plants  
(cont.): *Stipa columbiana*  
*Stipa richardsonii*  
*Symphoricarpos albus*  
*Thalictrum occidentale*

Bryophytes: *Abietinella abietina*  
*Tortula ruralis*



7.  
(cont.)

2

Soil

is very shallow, little productive

Community Reference Number	Soil type	Other notes
1	A(B)C F <sub>4</sub>	Melanized Shallow Brunisol
2	A(B)C F <sub>4</sub>	Melanized Shallow Brunisol
3	ABC F <sub>4</sub> /F <sub>5</sub>	Brunisol
4	ABC F <sub>5</sub>	Brunisol
5	AC/A(B)C F <sub>3</sub> /F <sub>4</sub>	Brunisol (very shallow)
6		
7		
8		
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13		
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18		
19		
20		



9. Landscape

1. General Landscape (give brief description) ..... A hill which was smoothed by a glacier and left with no glacial till, thus the soil is very shallow (mostly 5-20 cm deep) and very fine (autochthonous?).

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) ..... (described above)

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		
Standing		
Running		

2. Standing Water **NONE**

	Permanent	Intermittent	Unproductive	Productive
Swamps				
Ponds				
Lakes				

3. Running Water

	Permanent	Intermittent
Springs, cold		
Springs, hot		
Streams		
Rivers		

4. Special freshwater features ..... **very xeric environment** .....

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\*) **Bulkley R.**

1. Fresh  Lake  River  Stream  **Canyon Creek**

**McDowell Lake and Tyhee Lake**

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				
Aves		X		X		X	X	X	X	?		
Reptilia												
Amphibia												
Pisces												
Insecta		X				X		X		X		

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

Black bear and mule deer are frequent,

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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									
shrubs		X									
herbs		X	X		X	X					
grass	X	X	X		X	X					
Gymnospermae		X	X	X	X	X					
Pteridophyta		X	X								
Bryophyta		X			X	X					
Lichens and Algae		X				X					

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

Juniperus scopulorum (becomes very rare), Habenaria viridis,  
Schizachne purpurascens, Stipa columbiana, S. richardsonii,  
Carex supina var. spaniocarpa (most southern limit), Prunus virginiana

15. Exceptional Interest of IBP Area\*

A very unique area which possess the above rare species. It is closely connected with the area, described in the Application No. 193, but whereas this area may be easily purchased according to the information given us by Mr. Joe Hidber, the other area (No. 193) may be only exchanged for another piece of land.

16. Significant Human Impact

1. General : None in entire IBP Area\* .....  
 None in part of IBP Area\* ..... X (a quarry in an adjacent area) .....  
 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			
Removal of predators					X	
Pesticides					X	
Introductions — plants			X			
Introductions — animals					?	
Fire	X	?				
Permanent habitation					X	
Recreation and tourism			X			
Research			?		X	

-- a quarry in adjacent area which might endanger the whole hill. Its activity should be stopped.

3. Additional details on each type of impact attached?  
 Yes ..... No ..... X .....

17.

Conservation Status required

	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.

93 L/10 West Half and

List attached? Yes ..... No ..... 93 L/11 East Half

3. Aerial photographs for the IBP Area available?

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

19.

Other Relevant Information

This area should be either purchased (Mr. Hidber is willing to do so) or possibly exchanged for some other land which is not committed. However Mr. Hidber did not indicate any interest in this direction. It is hoped that B. C. Centennial Fund might be used to solve this problem.

*V.J. Krajina*

Signed V.J. Krajina, Jim Pojar,

(Surveyor)

George Koopmans, Calvin Parsons