

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.)

Petitot River (close to the Fort Nelson - Fort Simpson winter trail)

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

The Boreal White and Black Spruce (BWBS) Zone

4. Approximate total acreage.

22,880 acres

5. Purpose of the reserve.

(a) Primary (state acreage)
10,000 acres

(b) Others if any (state acreage)

(d) Buffer areas (state acreage)

12,880 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.

Aspen, black spruce, white spruce, lodgepole pine and jack pine with negligible production.

V.J. Krajina R.M. Annas

Signature V.J. Krajina - R.M. Annas

I.B.P. Surveyor

INTERNATIONAL BIOLOGICAL PROGRAMME
SECTION CT: CONSERVATION OF TERRESTRIAL BIOLOGICAL COMMUNITIES

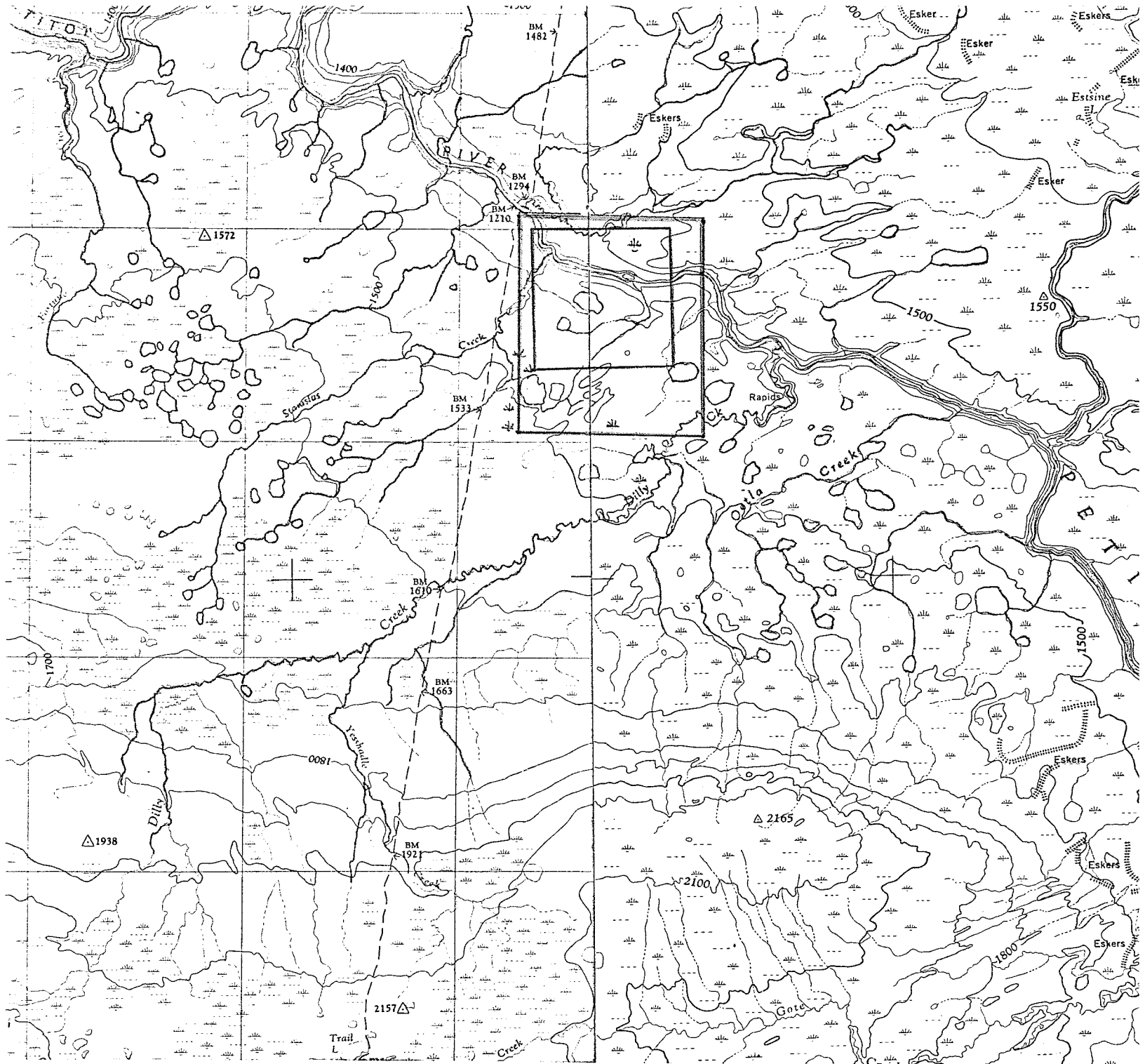
No. 40

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

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

	Serial Number	
1.	<p>1. Name of surveyors V. J. KRAJINA - R.M. ANNAS</p> <p>2. Address of surveyor Department of Botany University of British Columbia Vancouver 8, B.C., Canada</p> <p>3. Check Sheet completed (a) on site <input checked="" type="checkbox"/> (b) from records</p> <p>4. Date Check Sheet completed July 7, 1970</p>	For Data Centre Use only
2.	<p>1. Name of IBP Area Petitot River</p> <p>2. Name of IBP Subdivision (or serial letter) BWBS, British Columbia</p> <p>3. Map of IBP Area* showing boundaries attached? Yes <input checked="" type="checkbox"/> No</p> <p>4. Sketch map of IBP Area*. Please mark direction of north, the scale and grid numbers where applicable.</p> <div style="border: 1px solid black; height: 250px; width: 100%; margin-top: 10px;"></div>	

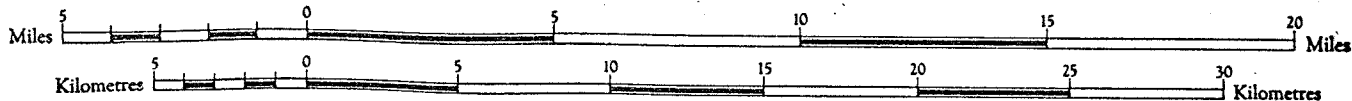
* For "IBP Area", read IBP Area and/or IBP Subdivision.



MAXHAMISH LAKE

PEACE RIVER DISTRICT
BRITISH COLUMBIA

Scale 1 : 250,000



1955

3. Location of IBP Area*

1. Latitude.....59.....° 48.6' - 54.2' N Longitude.....121° 54' - 122° 03.5' W
 2. Country Canada
 State or Province British Columbia Fort Nelson
 Peace River District
 (State or Province County)

4. Administration

National 1. Official category Crown Lands
 British Columbia Department of Lands, Forests
 2. Address of administration
 and Water Resources
 Victoria, B.C., Canada

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) 22,880 acres (35.75 sq. mi.)
 2. Altitude (state units of measurement) Maximum 1520'
 Minimum 1210'

6. Climate

Nearest climatological station :

1. Name Fort Nelson (Airport)
 2. Climatological station on IBP Area*? Yes No X
 3. If (2) not, distance from edge of IBP Area* (state units) ca. 90 mi.
 4. Direction from IBP Area* SSSW
 5. Additional data sheet attached? Yes No X

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	1	7	a	Cladonio (mitis) - Peltigero (aphthosae) - Elymo (innovati) - Arctostaphylo (uvae-ursi) - Populo - Pinetum banksianae - contortae	✓
2	1	A	2	1		Hylocomio (splendens) - Vaccinio (vitis-idaea) - Alno (crispae) - Populetum tremuloidis	
3	1	A	2	1		Arctostaphylo (uvae-ursi) - Elymo (innovati) - Shepherdio (canadensis) - Populetum tremuloidis	✓
4	1	A	1	7	a	Arctostaphylo (rubrae) - Vaccinio (vitis-idaea) - Ledo (groenlandici) - Larico (laricinae) - Piceetum glaucae - marianae	✓
5	1	B	1	3	d	Sphagno (lenensis) - Vaccinio (vitis-idaea) - Piceetum marianae	✓
6	1	C	1	3		Rubo (chamaemori) - Andromedo (polifoliae) - Betulo (glandulosae) - Caricetum aquatilis	✓
7	1	B	1	3	d	Sphagno (?lenensis) - Rubo (chamaemori) - Piceetum marianae	✓
8	1	B	1	3	d	Cladonio (impexae, silvaticae et rangiferinae) - Piceetum marianae	
9	1	A	1	7	a	Elymo (innovati) - Pineto (contortae) - Piceetum glaucae	✓
10	1	A	2	1		Linnaeo (borealis) - Corno (stoloniferae) - Roso (acicularis) - Alno (crispae) - Populetum balsamiferae - tremuloidis	
11	1	L	1	2		Typhetum latifoliae	
12	1	L	1	2		Calamagrostidetum canadensis	
13							
14							
15							
16							
17							
18							
19							
20							

peat bog

Please give information about further communities on a separate sheet.

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	ABC F ₅	Grey Wooded
2	ABC F ₅	Grey Wooded
3	ABC F ₅	Grey Wooded
4	A O	Peat Bog (with some seepage) (permafrost layer about 18" below the surface)
5	A O	Peat Bog (with stagnant water) (permafrost layer about 18" below the surface)
6	A O	Peat Bog in the groove of the high centered polygon (permafrost layer 15" below the surface)
7	A O	Peat Bog - high centered polygon (a permafrost 18 " under the surface)
8	A O	Peat Bog - dry ridges of a peat bog (a permafrost about 20" under the surface)
9	ABC F ₅	Grey Wooded - Brown Wooded
10	ABC F ₅	Grey Wooded (gleyed)
11	A O	Fen (subaquatic)
12	AGC P ₂	Rego-Humic Gleysol
13		
14		
15		
16		
17		
18		
19		
20		

9. Landscape

1. General Landscape (give brief description) gentle hills and flat plains along the Petitot River

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2. Relief Type

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

3. Special landscape features (list)

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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	X	
Standing	X	
Running	X	

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps	X		X	
Ponds				
Lakes	X		X	

3. Running Water

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

4. Special freshwater features

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12. Salt and Brackish Water within IBP Area*

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

nil

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

1. Fresh X Lake X River X Stream X

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								✓	✓			
Reptilia												
Amphibia								✓		✓		
Pisces								✓		✓		
Insecta								✓		✓		

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

snowshoe hare (*Lepus americanus*),

wolf (*Canis lupus*),

wolverine (*Gulo luscus*),

moose (*Alces americana andersoni*)

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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											
herbs											
grass											
Gymnospermae											
Pteridophyta											
Bryophyta											
Lichens and Algae											

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

Pinus banksiana (its only occurrence in British Columbia)

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15. Exceptional Interest of IBP Area*

Pinus banksiana stands got established here in continuation

 of their distribution in the Mackenzie District. Presumably

 jack pine came here from the north.

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Significant Human Impact

X

1. General : None in entire IBP Area*
 None in part of IBP 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					X	
Fire						X
Permanent habitation					X	
Recreation and tourism					X	
Research				X		

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

- List major biological/geographical references for the IBP Area.
 Photographs by V.J. Krajina
 Sheet attached? Yes X No
- List main maps available for the IBP Area.
 List attached? Yes X No
- Aerial photographs for the IBP Area available?
 For whole area For part of area None ?

19.

Other Relevant Information

This area, which is presently of no commercial importance, is ecologically unique for the only B.C. occurrence of Pinus banksiana and its hybrids with Pinus contorta. Therefore, we highly recommend to cover this area by the ecological reserve.

V.J. Krajina R.M. Annas
 Signed V.J. Krajina - R.M. Annas
 (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.)

Top of the World, Kootenay Range, lying between the Hughes Range and Van Nostrand Range
near Fort Steele, British Columbia

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

Engelmann Spruce - Subalpine Fir Zone
Alpine Zone (interior)

4. Approximate total acreage.

23,040 acres (approx.)

5. Purpose of the reserve.

(a) Primary (state acreage)

(b) Others if any (state acreage)

(d) 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.

Signature

John V. C. Brooke
I.B.P. Surveyor