

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.)

Small Creek Drainage System near Mc Bride, B.C.

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

The Interior Douglas - fir Zone (IDFb) [its wetter subzone]; the Interior Subalpine Zone or the Engelmann Spruce and Subalpine Fir Zone (ESSF) and the Alpine Tundra Zone (AT).

4. Approximate total acreage.

70,000 acres

5. Purpose of the reserve.

(a) Primary (state acreage)

70,000 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.

Signature Jack Maze  
T.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

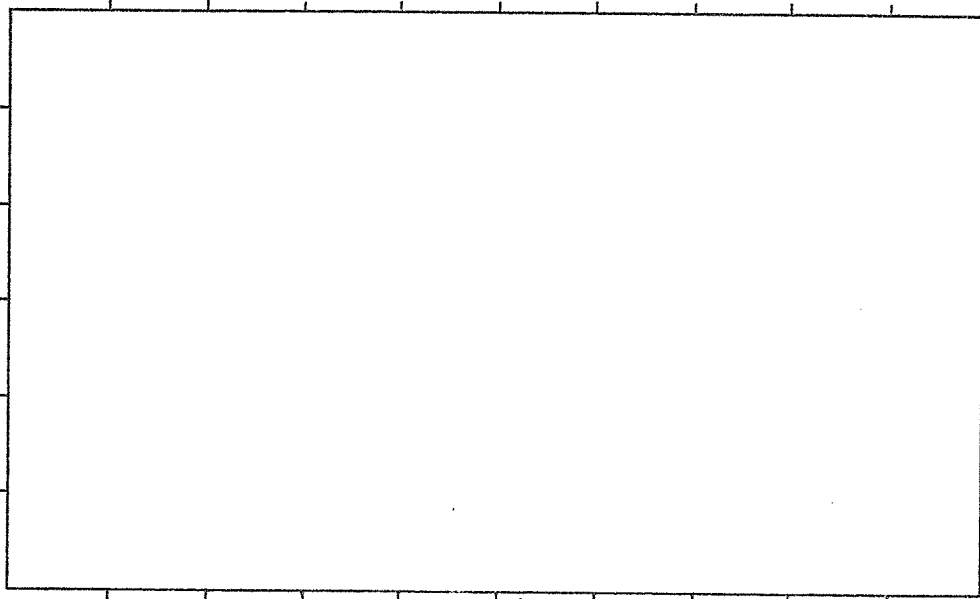
Serial Number

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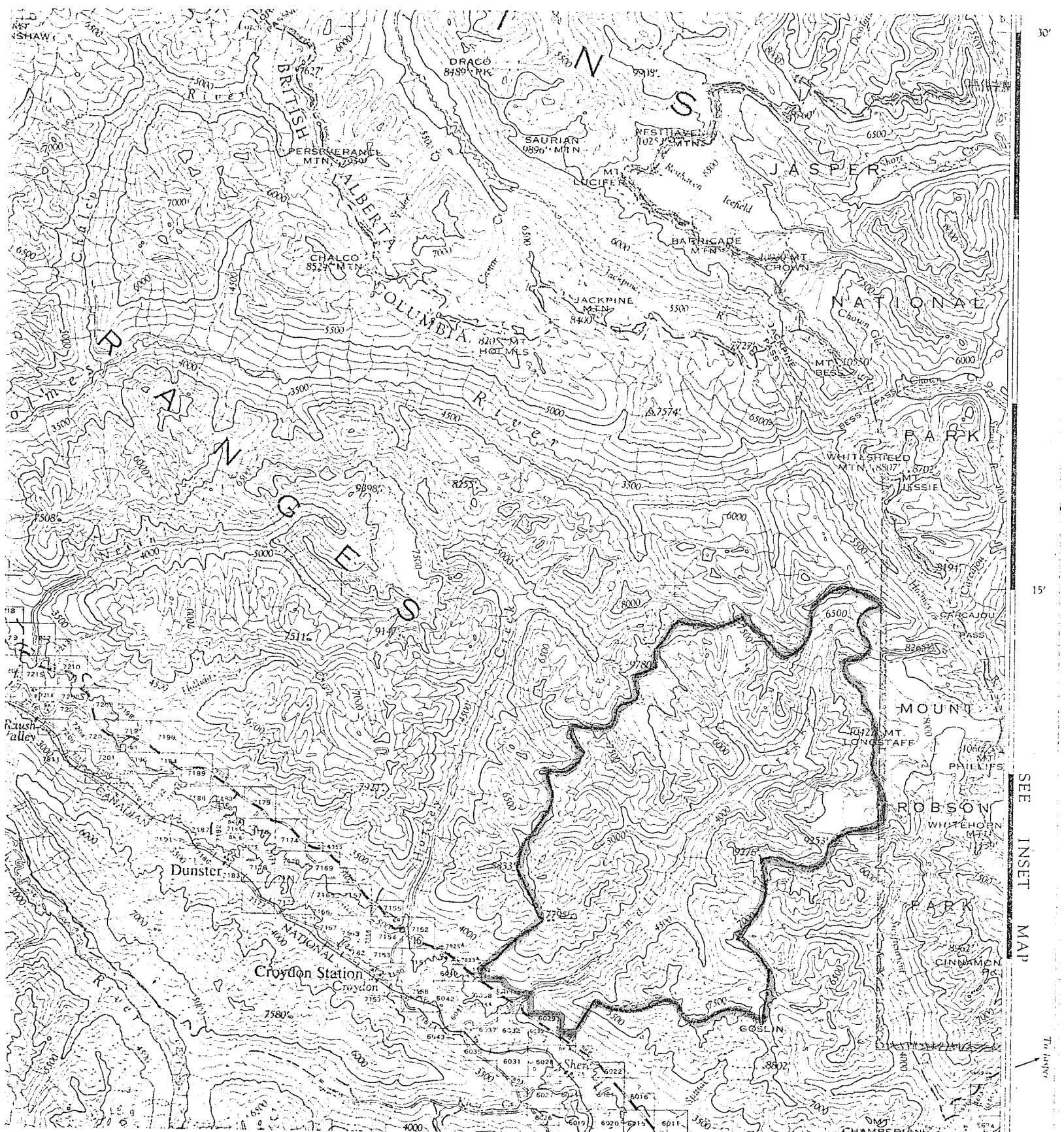
For Data Centre Use only

1. 1. Name of surveyor ..... J. Maze, W. B. Schofield, B. A. Bohm, .....
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 .....
4. Date Check Sheet completed ..... 18 July 1971 .....

2. 1. Name of IBP Area ..... D:Small Creek Drainage System .....
2. Name of IBP Subdivision (or serial letter) ..... B.C. ....
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.



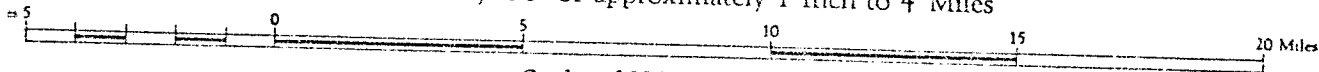
\* For "IBP Area", read IBP Area and/or IBP Subdivision.



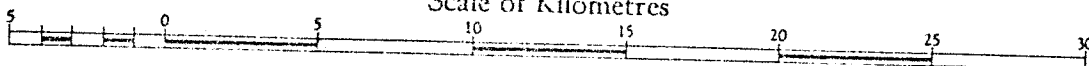
# MCBRIDE

## BRITISH COLUMBIA

Scale 1:250,000 or approximately 1 Inch to 4 Miles



Scale of Kilometres



SEE INSET MAP

53°  
More 119° 15'  
Su. fawater

3. Location of IBP Area\*

1. Latitude 119 20' to 119 35' N/ Longitude 53 2' to 53 15' E/

2. Country Canada  
 State or Province British Columbia County Mc Bride  
 (State or Province County )

4. Administration

National 1. Official category Crown Land

2. Address of administration Department of Lands, Forests and Water Resources  
 Parliament Buildings  
 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) about 70,000 acres

2. Altitude (state units of measurement) Maximum 10,427 feet  
 Minimum 2 500 feet

6. Climate

Nearest climatological station :

1. Name Mc Bride

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\* WNW

5. Additional data sheet attached? Yes No X

7. Vegetation and Soil

1

Vegetation

Biogeoclimatic zones:	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		
IDFb:	1	1	A	1	7	a	Pleurozio(schreberi) - Vaccinio(myrtilloidis) Betulo(papyriferae) - Populo(tremuloidis) - Pseudotsugetum *glaucac	
	2	1	A	1	7	a	Hylocomio(splendens) - Cornu(canadensis) - Pino(contortae) Pseudotsugetum *glaucac	
	3	1	A	1	7	a	Ptilio(cristae-castrensis)-Gymnocarpio(dryopteridis)- Aralio(nudicaulis) - Pseudotsugetum *glaucac	
	4	1	A	1	7	a	Mnio (rugici)-Oplopanaco(horridi)- Piceo(glaucac) - Thujo(plicatae) - Pseudotsugetum *glaucac	
	5	1	A	1	7	a	Heracleo(lanati)- Alno(sinuatae)-Populo(tremuloidis)- Populetum balsamiferae	
ESSF:	6	1	A	1	7	a	Pleurozio(schreberi)-Rhododendro(albiflori)-Abieto (lasiocarpae)- Piceetum engelmannii	
	7	1	A	1	7	a	Ptilio(cristae-castrensis)-Gymnocarpio(dryopteridis)- Vaccinio(ovalifolii)-Abieto(lasiocarpae)-Piceetum engelmannii	
	8	1	A	1	7	a	Dicrano(scoparii)-Pineto(contortae)-Piceetum engelmannii	
	9	1	A	1	7	a	Equiseto(arvensis et sylvatici) - Heracleo(lanati) - Alni(tenuifoliae)-Piceo(engelmannii)-Abietetum lasiocarpae	
	10	1	D	1	4	a	Cassiopo(mertensianae)-Phyllodoco(empetriformis)-Pino(albicaulis)- Piceetum engelmannii	
	11	1	D	1	4	a	Astero(peregrini)-Pino(albicaulis)-Abietetum lasiocarpae	
AT:	12	1	N	2	1		Alpine meadows(several communities)	
	13	1	M	2	1		Alpine heath(several communities)	
	14	3	C	1	3		Snow patch plant communities	
	15						(Further survey of this area might bring additional	
	16						information)	
	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	ABC F <sub>5</sub>	Degraded Dystric Brunisol
2	ABC F <sub>5</sub>	Dystric Brunisol
3	ABC F <sub>4</sub>	Eutric Brunisol
4	ABGC P <sub>2</sub>	Gleyed Melanic Brunisol
5	AC I <sub>2</sub>	Regosol
6	ABC F <sub>5</sub>	Humo-Ferric Podzol
7	ABC F <sub>5</sub>	Dystric Brunisol - Podzol
8	ABC F <sub>5</sub>	Mini Podzol
9	AGC P <sub>2</sub>	Gleysol
10	ABC F <sub>5</sub>	Dystric Brunisol
11	AC F <sub>i</sub>	Rendzina, Pararendzina
12	AC [AGC] F <sub>i</sub> , P <sub>2</sub>	Rendzina, Pararendzina, Gleysol
13	A(B)C F <sub>4</sub>	Alpine Brunisols
14	AC I <sub>2</sub>	Snow-Patch Rawmarks (Regosols)
15		
16		
17		
18		
19		
20		



9. Landscape

1. General Landscape (give brief description) ..... An entire drainage system of which Small Creek is the major element. It drains in a southwesterly direction into 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%

3. Special landscape features (list) ..... avalanche tracks, rock slides, glacier  
 .....  
 .....

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

3. Physiography. % of coast

Cliffed	Sloping	Flat

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	X
Running	X	X

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps		X		
Ponds	X		X	
Lakes	X		X	

3. Running Water

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

4. Special freshwater features ..... water falls, glacial streams .....  
 .....

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  X Lake  X River  X Stream  X

2. Salt and Brackish

nil

Estuary	Salt lake	Salt pool	Lagoon	Ocean		

14. Outstanding Floral and Faunal Features

1. None .....X..... Evidence of Black and Grizzly Bear, Elk, Porcupine, Marmots, Toads, Ground Squirrels
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

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

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

None  
 .....  
 .....  
 .....

15. Exceptional Interest of IBP Area\*

This is an entire, relatively undisturbed (by man) drainage system of a tributary of the Fraser River. It contains a diverse assortment of plant communities, from alpine to coniferous forest. The avalanche slide areas make it ideal for studying successional trends.  
 .....  
 .....  
 .....

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

(some areas seem to have been logged although on a very small scale)

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

18. References

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

Sheet attached? Yes ..... No ..... photos by B. A. Bohm

2. List main maps available for the IBP Area.

List attached? Yes ..... No <sup>X</sup> .....

3. Aerial photographs for the IBP Area available?

For whole area <sup>X</sup> ..... For part of area ..... None .....

19. Other Relevant Information

We should like to stress again, that this proposal includes an entire drainage system and such is, in our opinion, of tremendous potential value for hydrographic or ecosystematic studies on independent, yet relatively small units.

Signed ..... Jack Maze  
(Surveyor)