

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.)

Entrance area, Wells Gray Provincial Park

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

The Interior Western Hemlock (IWH) Zone

4. Approximate total acreage.

3840 acres

5. Purpose of the reserve.

(a) Primary (state acreage)

3840 acres

(b) Others if any (state acreage)

(d) Buffer areas (state acreage)

Wells Gray Provincial Park

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.

V. J. Krajina, R. E. Foreman
Signature V. J. Krajina - R. E. Foreman
I.B.P. Surveyor

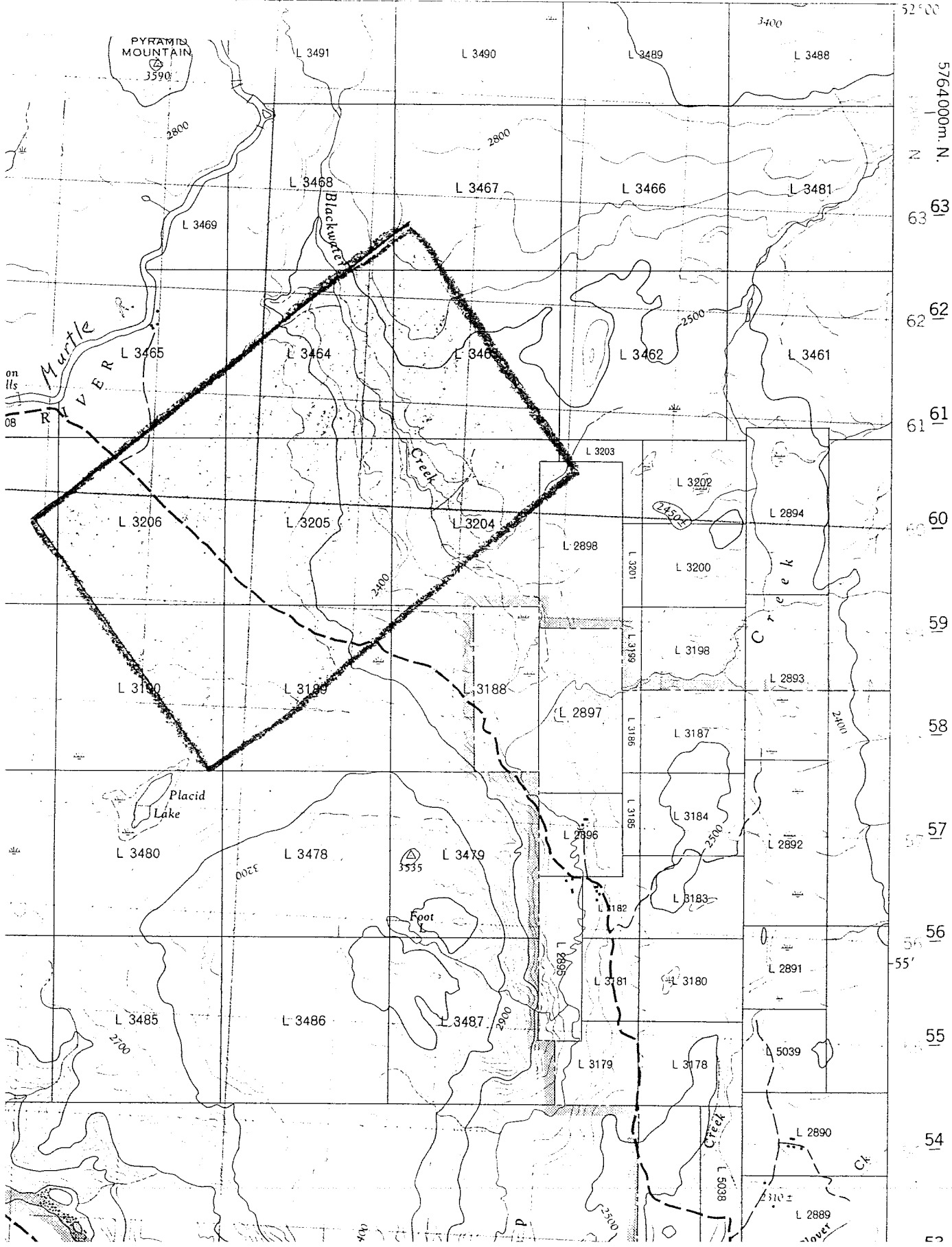
#51 WELLS GREY PA

1:50,000

CARTE PROVISOIRE

88 05 89 901 91 2920000 E. 92 P 16 120 00 52 00

Refer to this map as: EDIT SER



100 50 0

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

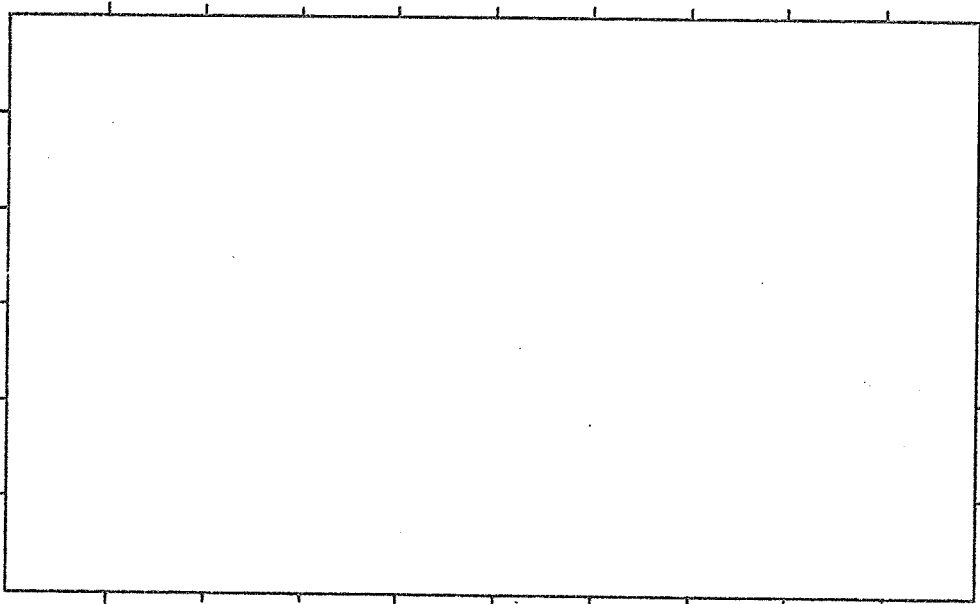
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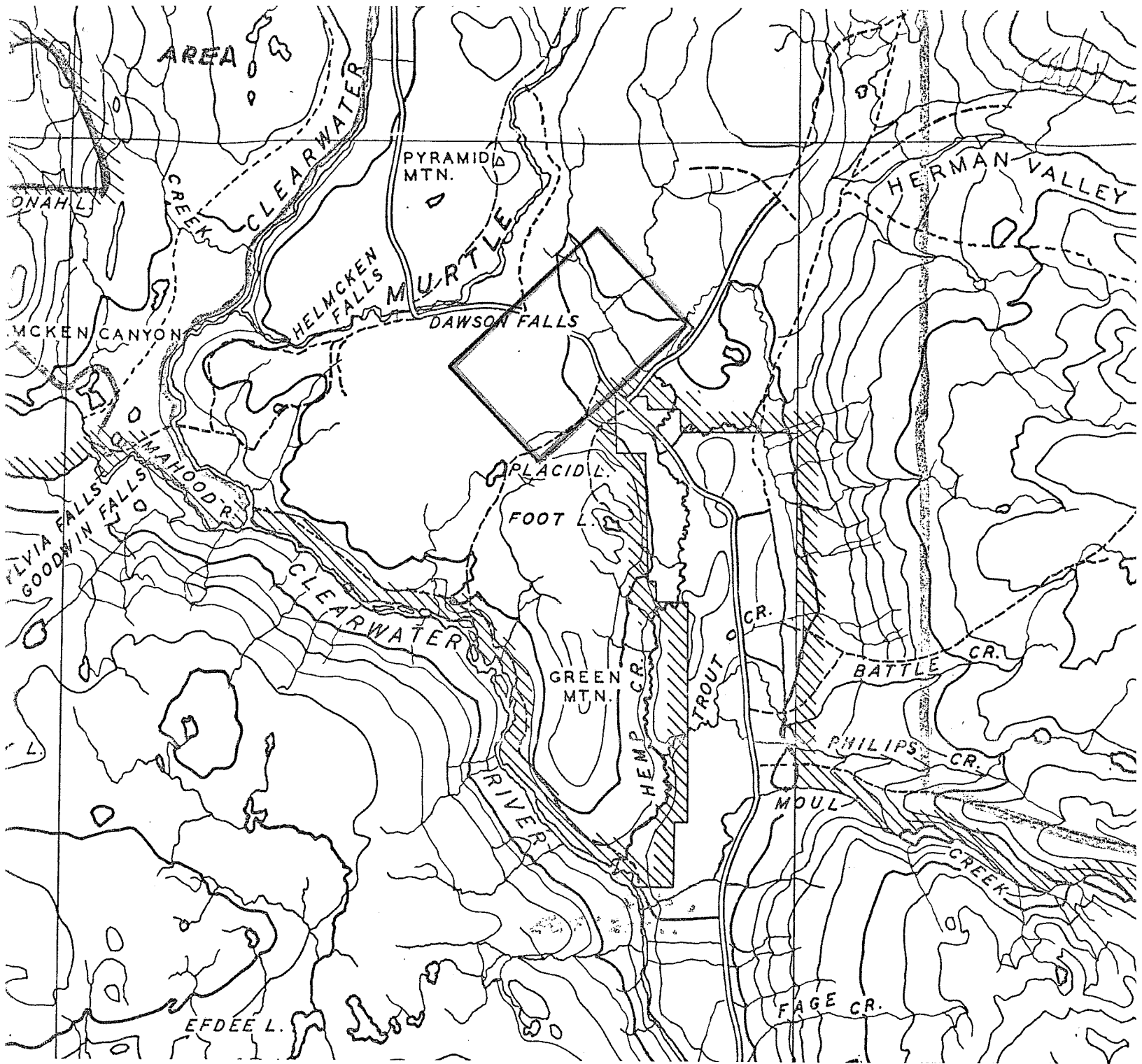
For Data Centre Use only

1. 1. Name of surveyor ... V. J. Krajina - R. E. Foreman
 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
 August 15 - October 26, 1970
 4. Date Check Sheet completed

2. 1. Name of IBP Area Entrance area of Wells Gray Provincial Park
 2. Name of IBP Subdivision (or serial letter) IWH, British Columbia
 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.

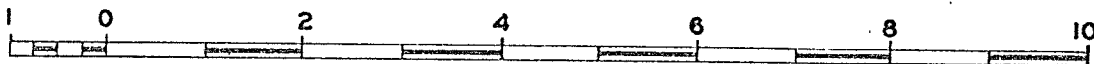


* For " IBP Area ", read IBP Area and/or IBP Subdivision.



WELLS GRAY PROVINCIAL PARK BRITISH COLUMBIA

SCALE OF MILES



3. Location of IBP Area*

1. Latitude 51 ° 55.5 - 58' N Longitude 120 ° 03.5 - 06' W
 2. Country Canada
 State or Province British Columbia Bonaparte River
 (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
 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) X	(D)

5. Characteristics of IBP Area*

1. Surface area (state units of measurement) 6 sq. miles (= 3840 acres)
 2. Altitude (state units of measurement) Maximum 3500'
 Minimum 2500'

6. Climate

Nearest climatological station :

1. Name Moul Creek, Clearwater
 2. Climatological station on IBP Area*? Yes No X
 3. If (2) not, distance from edge of IBP Area* (state units) 8 mi. (approx.)
 SSE
 4. Direction from IBP Area*
 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)	Rhytidiadelpho (triquetri) - Linnaeo (borealis) - Pachystimo (myrsinitis) - Betulo (papyriferae) - Pseudotsugo (*glaucæ) - - Thujetum plicatae	
2	1	A	1	7	(a)	Pleurozio (schreberi) - Pachystimo (myrsinitis) - - Pseudotsugo (*glaucæ) - Tsugetum heterophyllae	
3	1	A	1	7	(a)	Rhytidiadelpho (triquetri) - Rubo (parviflori) - - Pseudotsugo (*glaucæ) - Thujetum plicatae	
4	1	A	1	7	(a)	Plagiomnio (affinis) - Gymnocarpio (dryopteridis) - - Disporo (oregani) - Corylo (californicae) - Oplopanaco (horridi) - Piceo (engelmannii x glaucæ) - Thujetum plicatae	
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	ABC F ₅	Brunisol (Forest Brown)
2	ABC F ₅	Podzol
3	ABC F ₅	Brunisol (Forest Brown)
4	AC I ₂	Regosol (alluvial terrace)
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

9. Landscape

1. General Landscape (give brief description) gently dissected foreland of mountains

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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)

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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		
Running	X	

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps				
Ponds				
Lakes				

3. Running Water

	Permanent	Intermittent
Springs, cold		
Springs, hot		
Streams	X	
Rivers		

4. Special freshwater features
 Dawson Falls are very close and their environment requires much better protection than up to now

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

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

The rare alluvial habitat with western redcedar stands, established after the last fire (1898) is well established and should remain undisturbed for research work .

15. Exceptional Interest of IBP Area*

The plant communities represented in this area are not occurring in the other parts of the Wells Gray Provincial Park. Therefore they should be left for further ecological studies. They represent forest productive sites of the IWH zone.

16. Significant Human Impact

1. General : None in entire IBP Area* X
 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						
Drainage						
Other soil disturbance			X			
Grazing						
Selective flora disturbance						
Logging					X	
Plantation					X	
Hunting					?	
Removal of predators						X
Pesticides					X	
Introductions — plants			X			
Introductions — animals						
Fire	X					
Permanent habitation					X	
Recreation and tourism			X			
Research			X			

(roads)

(1898)

3. Additional details on each type of impact attached?

X
 Yes No

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	

18. References

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

19. Other Relevant Information

Because this unique forest area (not repeated in other parts of the Park area) is endangered by its closeness to the entrance of the Park, an immediate action to claim it as an Ecological Reserve is necessary. It is most desirable to stop any logging operations in the Park itself.

Signed *V.J. Krajina*
 V.J. Krajina (Surveyor) R.E. Foreman