

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.)  
"Gallery" forest along the western arm of Tseax River in lava beds, near Aiyansh, Nass River Basin
  
3. Indicate the biogeoclimatic zone of which the reserve is representative.  
CWHa
  
4. Approximate total acreage.  
281
  
5. Purpose of the reserve.  
To preserve extremely interesting ecosystem, developed by the river in the lava beds.  
(a) Primary (state acreage)  
281  
  
(b) Others if any (state acreage)  
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(c) Buffer areas (state acreage)  
are in the adjacent lava beds which should be, therefore, preserved as a 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.

This area should be considered as an important fire-break area for the Tree Farm License No. 1. Therefore, it should not be considered as potentially useful for logging. The area west of the proposed ecological reserve was already logged and the "gallery" forest contributes for the natural regeneration of the forest there.

*J. Krajina* *K. Klinka*  
Signature J. Krajina & K. Klinka

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

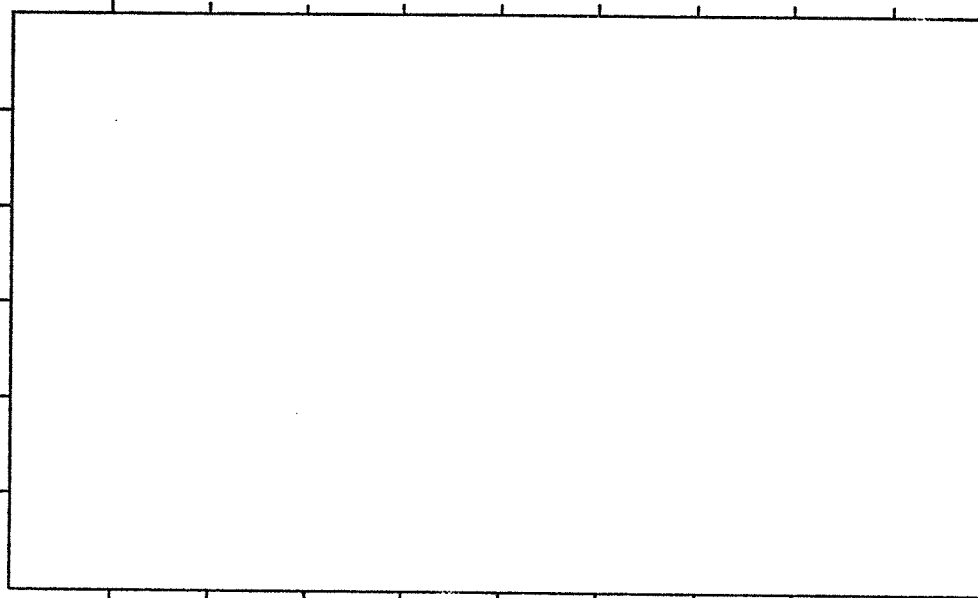
Serial Number

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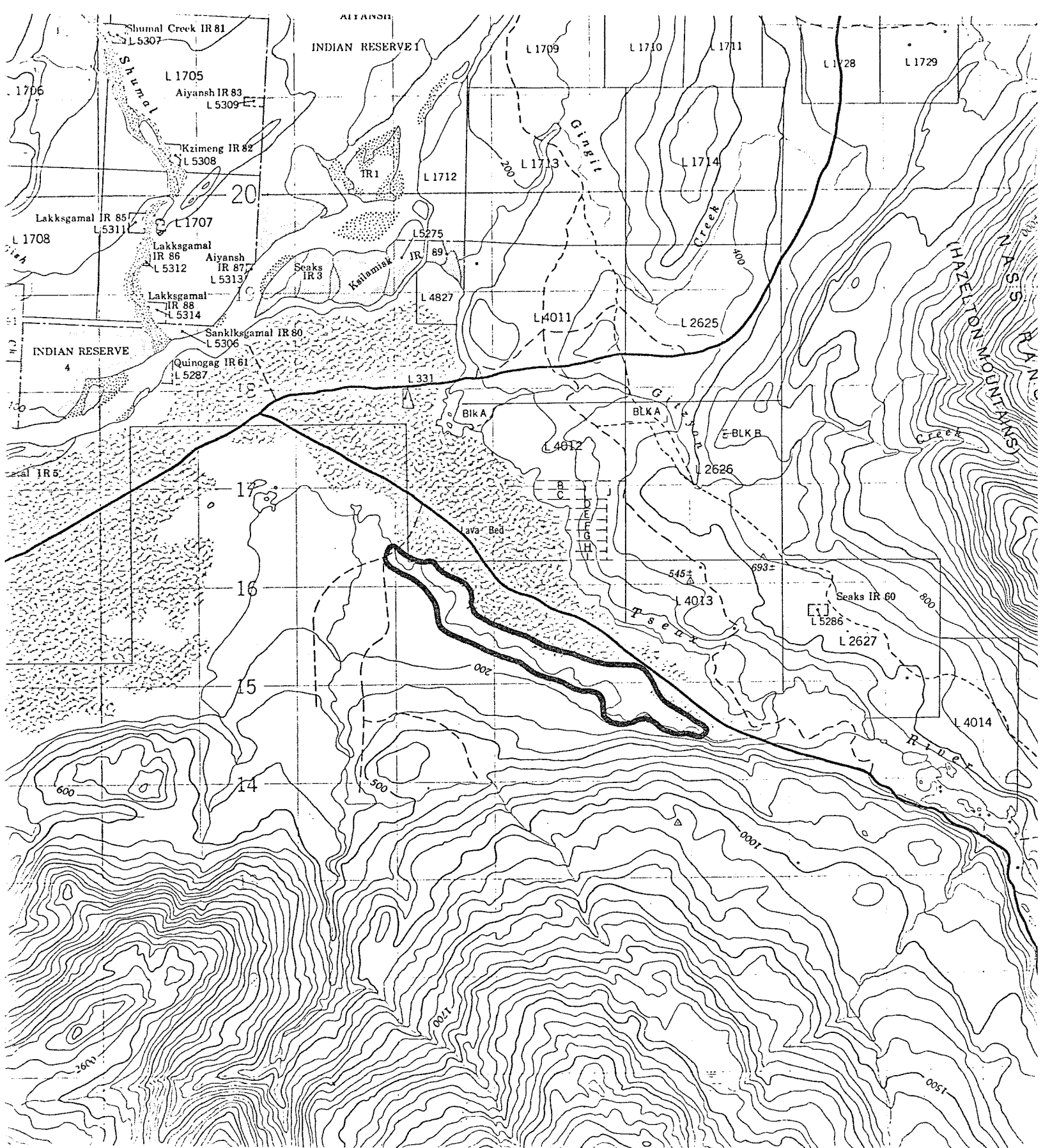
For Data Centre Use only

1. 1. Name of surveyor V.J. Krajina & Karel Klinka  
 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 .....  
July 23, 1973  
 4. Date Check Sheet completed .....

2. 1. Name of IBP Area "Gallery" forest along the western arm of Tseax River  
in lava beds, nr. Aiyansh, Nass River Basin  
 2. Name of IBP Subdivision (or serial letter) CWha  
 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.



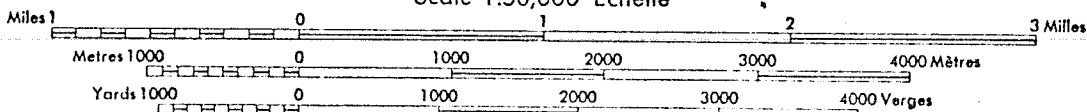
\* For "IBP Area", read IBP Area and/or IBP Subdivision.



# TSEAX RIVER

CASSIAR DISTRICT  
BRITISH COLUMBIA

Scale 1:50,000 Échelle



3. **Location of IBP Area\***
1. Latitude..... 55 ° 11.5-13.2' N Longitude..... 129 ° 03.5-07' W
2. Country ..... Canada
- State or Province ..... British Columbia County ..... Terrace
- (State or Province ..... County .....)

4. **Administration**

- National** 1. Official category ..... Crown Lands: Tree Farm License No. 1
2. Address of administration ..... B.C. Department of Lands, Forests, 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) ..... 281 acres
2. Altitude (state units of measurement) Maximum 200' (60 m)
- Minimum 140' (42 m)

6. **Climate**

Nearest climatological station :

1. Name ..... Aiyansh
2. Climatological station on IBP Area\*? Yes ..... No ..... X
3. If (2) not, distance from edge of IBP Area\* (state units) ..... 5 miles
4. Direction from IBP Area\* ..... SSW
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	<i>Cornus stolonifera</i> - <i>Rubus spectabilis</i> - <i>Acer glabrum</i> - <i>Populus trichocarpa</i> - <i>Picea sitchensis</i> - <i>Thuja plicata</i>	
2	1	A	2	1		<i>Solidago canadensis</i> - <i>Symphoricarpos albus</i> - <i>Disporum oreganum</i> - <i>Populus trichocarpa</i>	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

7.  
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	AGC P <sub>1</sub> (?)	Lava beds with continuous river effects
2	AC I <sub>2</sub>	Lava beds with some flood plain features
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		



9. Landscape

1. General Landscape (give brief description) .....  
 lava beds constantly penetrated by the stream of the 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			100%

3. Special landscape features (list) .....  
 .....  
 .....

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) .....  
 .....  
 .....

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	X	

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps				
Ponds				
Lakes				

3. Running Water

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

4. Special freshwater features ..... fast moving stream (river) through the lava beds  
 .....

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\*)

nil

1. Fresh  Lake  River  Stream

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												
Aves												
Reptilia												
Amphibia												
Pisces		X										
Insecta												

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

there are trouts in the river

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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									
grass		X									
Gymnospermae		X									
Pteridophyta		X									
Bryophyta		X									
Lichens and Algae											

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

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15. Exceptional Interest of IBP Area\*

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16. Significant Human Impact

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					?	
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

	Future Protection			Utilisation			Conservation Management			Future 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

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

Sheet attached? Yes ..... No .....

2. List main maps available for the IBP Area.

List attached? Yes ..... No .....

3. Aerial photographs for the IBP Area available?

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

19. Other Relevant Information

The whole ecosystem, comparable with the gallery forests in dry climates, is unique, not repeated elsewhere in British Columbia. Therefore, it should be well preserved.

Logging here would cause such a damage to the lava beds and future growth of secondary forest that it would be difficult to repair.

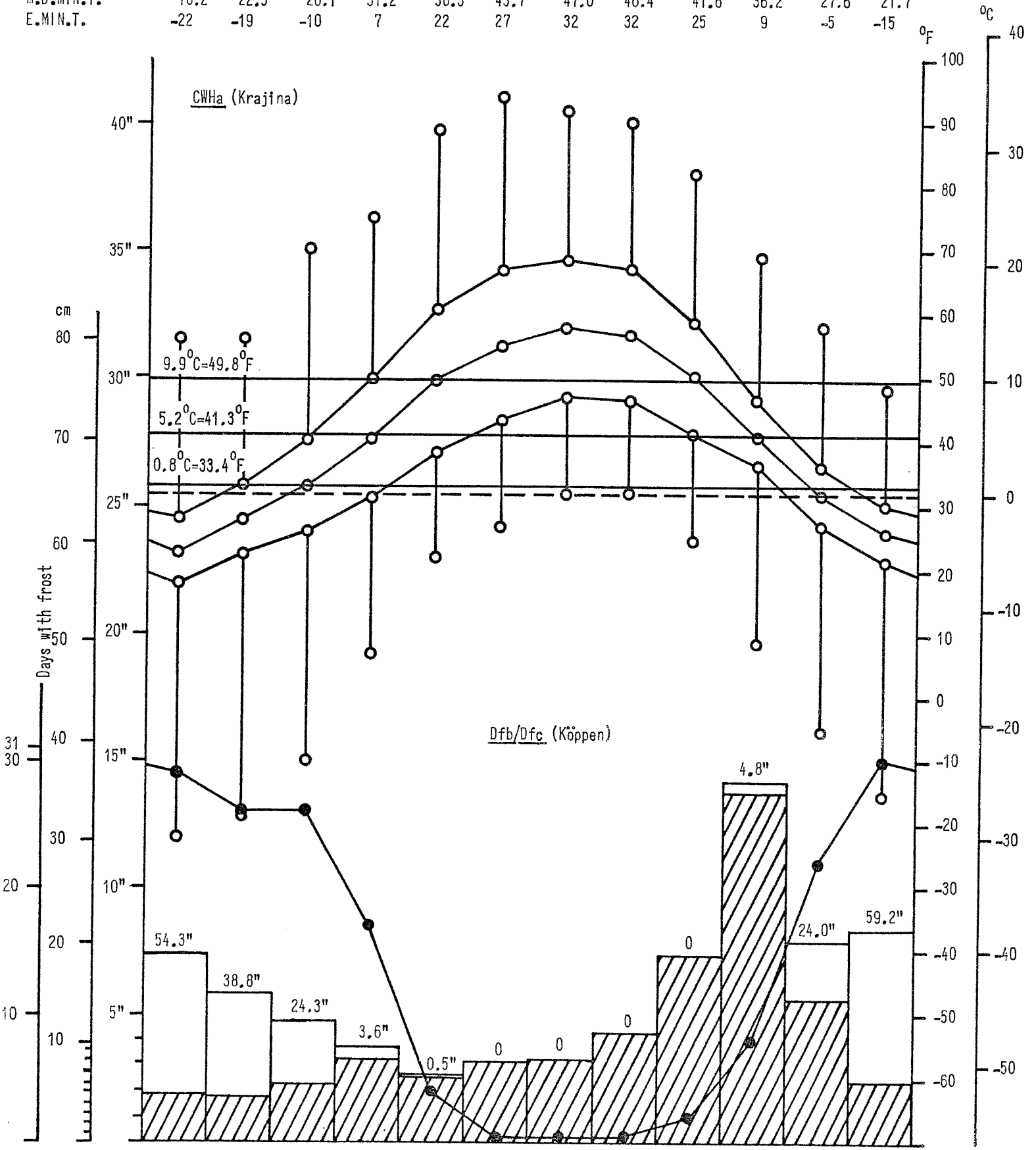
*Wladimir Krajinac Neil Klinka*  
 Signed V.J. Krajinac & K. Klinka.....  
 (Surveyor)



STEWART, 55°57'N, 129°59'W, 15' ASL. Record: 25-56 years.

Months above 50°F: 4, below 32°F: 3, A.M.T.P. 51.31", A.M.S.F. 209.5", snow % A.M.T.P.: 40.84, days with frost, yearly: 73.

E.MAX.T.	56	56	70	75	89	94	92	90	82	69	58	48
M.D.MAX.T.	28.1	33.5	40.6	49.6	60.8	66.7	68.7	67.1	58.8	46.6	36.1	30.4
M.D.T.	23.2	28.0	33.4	40.4	49.5	55.2	57.8	56.8	50.1	41.4	32.0	26.0
M.D.MIN.T.	18.2	22.5	26.1	31.2	38.3	43.7	47.0	46.4	41.6	36.2	27.6	21.7
E.MIN.T.	-22	-19	-10	7	22	27	32	32	25	9	-5	-15



Days with frost	29	26	26	17	4	*	*	*	2	8	22	30
M.M.T.P.	7.35	5.78	4.75	3.65	2.61	3.10	3.29	4.34	7.25	14.14	7.98	8.33
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC