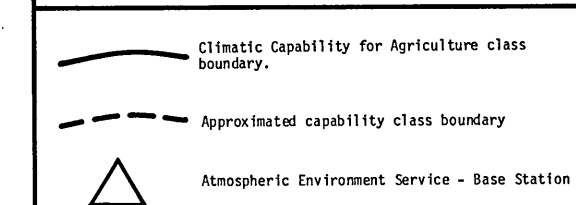


## CLIMATIC CAPABILITY FOR AGRICULTURE

## 1. Explanatory Notes

A Climatic Capability for Agriculture map shows a system of classification which describes the agricultural capability as influenced by climate. The capability classes are designated by numbers, sometimes followed by letters, with class 1d having the highest capability and class 7 having the lowest capability for agriculture. The letters show the climatic limitation which affects the capability of the land to support agriculture. Map symbols are used to show the first limiting factor affecting the capability class determined by the climatic criteria and second, show in brackets indicating the capability class as determined by thermal limitation. The improved capability rating (lands being irrigated or drained) is synonymous with the class representing the thermal limitation class. It is assumed that the moisture limitations are eliminated. The unimproved ratings (dry-land or unirrigated) are determined by the most severe limitation imposed by the moisture and/or the thermal criteria.

## 3. Map Boundaries and Symbols



## 5. Limiting Subclasses

- A - Drought or aridity occurring between May 1st and September 30th resulting in moisture deficits which are limiting to plant growth.  
 F - Minimum temperature near freezing adversely affecting plant growth during the growing season.  
 G - Insufficient accumulation of heat units above 5°C during the growing season.  
 E - Excessive minimum temperatures occurring during the winter season injuring or killing dormant or near dormant fruit trees.  
 V - Excessive precipitation between May 1st and September 30th causing flooding, poor trafficability and generally poor yield and harvest conditions.

## 6. Summary of Limitations

CLASS	GDD ABOVE 5°C (°C-DAYS)	GDD ABOVE 5°C (°C-DAYS)	FFP (DAYS)	FFP (DAYS)	FFP (DAYS)	FFP (DAYS)	FFP (DAYS)	FFP (DAYS)	FFP (DAYS)
1d	2225	-	1150	-	-	-	-	-	-
1c	2060-2225	-	1150	-	-	-	-	-	-
1b	1780-2059	-	1150	-	-	-	-	-	-
1a	1500-1779	-	1150	-	-	-	-	-	-
2	1210-1499	325	1150	1150	1150	1150	1150	1150	1150
3	920-1209	640	1150	1150	1150	1150	1150	1150	1150
4	630-919	955	1150	1150	1150	1150	1150	1150	1150
5	340-629	1270	1150	1150	1150	1150	1150	1150	1150
6	50-339	1585	1150	1150	1150	1150	1150	1150	1150
7	< 40	1900	1150	1150	1150	1150	1150	1150	1150

## 7. Base Station Statistics - Frequency of Climatic Capability for Agriculture Class (%) by Parameter

CLASS	GDD	FFP	FFP	FFP	FFP	GDD	FFP	FFP	FFP	GDD	FFP	FFP	FFP
1d													
1c													
1b													
1a													
2													
3													
4													
5													
6													
7													

## 8. Base Station Statistics - Frequency of Climatic Capability for Agriculture Class (%) by Thermal and Moisture Limitation

CLASS	Thermal Limitation	Moisture Limitation	Thermal Limitation	Moisture Limitation	Thermal Limitation	Moisture Limitation
1d						
1c						
1b						
1a						
2						
3						
4						
5						
6						
7						

## 9. Base Station Statistics - Frequency of Climatic Capability for Agriculture Class (%) by Limitation

CLASS	Limitation	Limitation	Limitation	Limitation	Limitation	Limitation
1d						
1c						
1b						
1a						
2						
3						
4						
5						
6						
7						

## 10. Abbreviations Used in Legend

GDD - Climate moisture deficit (PPF-PE is positive)  
 GDD - Climate moisture surplus (PPF-PE is positive)  
 PPF - Effective growing degree days  
 PE - Possible free period  
 PPF - Potential evapotranspiration  
 PPF - Precipitation

## 12. Comments

- 1) Dashed lines generally indicate areas of probable cold air flow and pooling which will limit the climatic capability due to lower freeze-free periods.  
 2) An aridity rating (A) is only indicated if it is the limiting factor, however the aridity class may be the same as the thermal class under 2 050 feet elevation.  
 3) The longer days in this region may result in an under-estimation of the climatic capability for certain crops that do not have high heat and light intensity requirements.

## 13. References

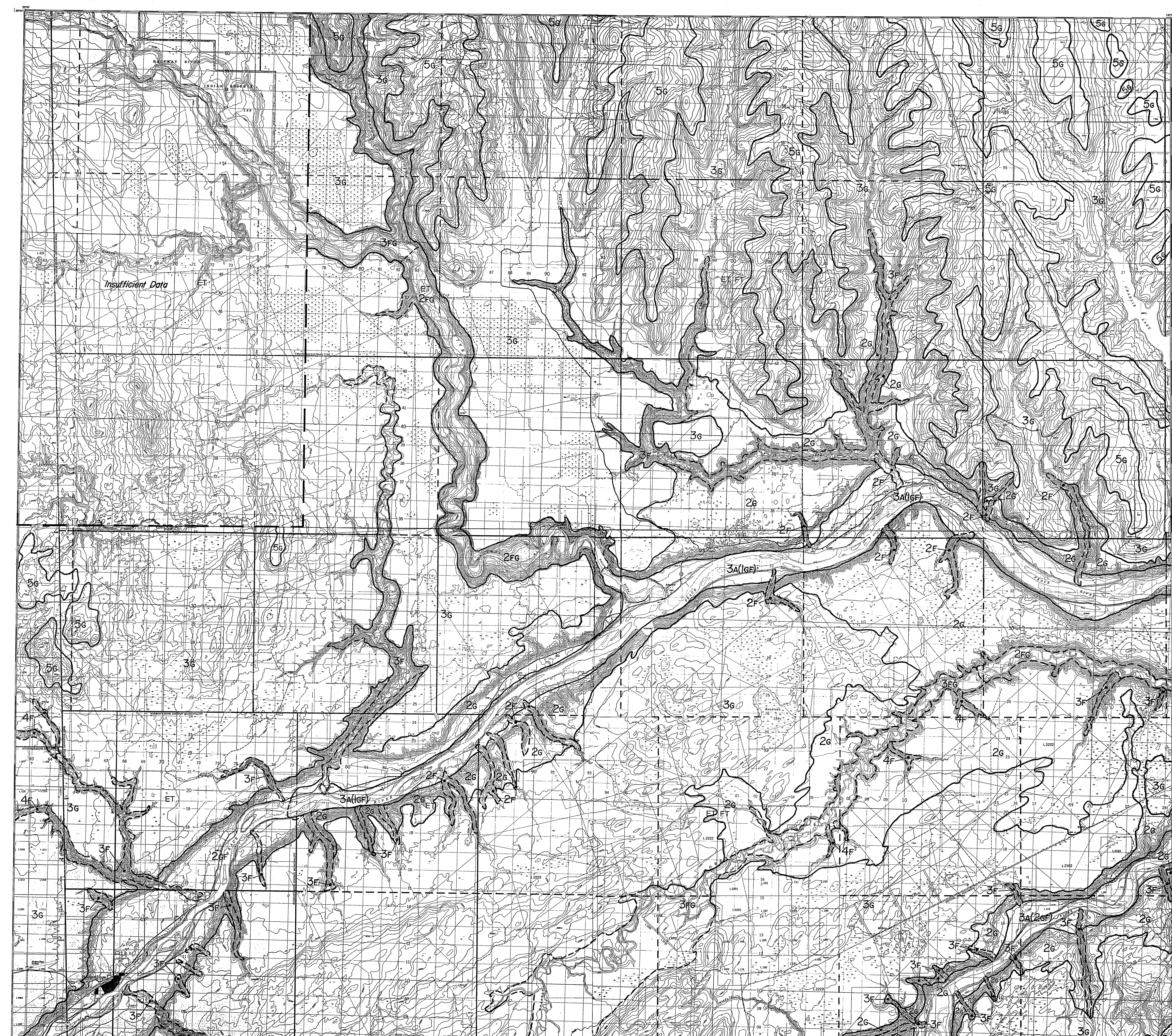
A.A.B. Technical Paper #1  
 Climatic Capability Classification for Agriculture  
 in British Columbia  
 B.C. Ministry of Environment, 1978.  
 Climatology Unit  
 Waste Management Branch  
 Ministry of Environment  
 Parliament Buildings  
 Victoria, B.C. V8V 1X5  
 Additional climatological maps and reports available from:  
 The Map Library  
 Research and Planning Division  
 Ministry of Environment  
 Parliament Buildings  
 Victoria, B.C. V8V 1X5

## 14. Credits

Map by G.E. Cheesman  
 Date mapped July 29, 1983  
 Duration of topographic network 1977-80  
 Normals used 1951-80  
 Correlated by  
 Drafted by Cartography Section, Terrestrial Studies Branch,  
 Ministry of Environment  
 Date drafted August 1983  
 Revision dates

## 14. Credits

Base map provided by Surveys and Mapping Branch, Ministry of Environment.



HUDSON HOPE

Scale 1:100,000

94A/SW