

2018 CORN HEAT UNIT INSURANCE SUMMARY

AFSC has determined the final 2018 corn heat unit accumulations for Corn Heat Unit (CHU) Insurance using the temperature data reported by Alberta Agriculture and Forestry. The finalized 2018 information for each of the 13 weather stations supporting Corn Heat Unit Insurance is below.

2018 Summary of the weather station information

Station Grouping	Weather Station	Threshold Options (CHU's)	Date Last Spring Frost	Date 700 CHU's Reached	Date CHU Threshold Exceeded	Date First Fall Killing Frost	Final 2018 CHU Accum.	Long Term Average CHUs
A	Bow Island North	Low (2260)	May 12	June 21	September 5	September 28	2479	2462
		High (2380)			September 11			
	Bow Island South	Low (2260)	May 12	June 21	September 8	September 30	2414	2543
		High (2380)			September 21			
	Fincastle	Low (2260)	April 23	June 21	September 8	September 29	2418	2411
		High (2380)			September 21			
	Seven Persons	Low (2260)	May 12	June 22	September 9	September 28	2393	2399
		High (2380)			September 25			
B	Brooks	Low (2160)	May 12	June 24	September 8	September 28	2295	2361
		High (2280)			September 25			
	Enchant	Low (2160)	April 26	June 22	September 4	September 29	2336	2349
		High (2280)			September 11			
	Vauxhall	Low (2160)	April 23	June 22	September 4	September 29	2359	2371
		High (2280)			September 11			
C	Iron Springs	Low (2100)	May 12	June 24	September 4	September 29	2287	2315
		High (2220)			September 19			
	Lethbridge	Low (2100)	May 12	June 24	September 3	September 30	2306	2266
		High (2220)			September 11			
	Rolling Hills	Low (2100)	May 19	June 25	September 5	September 28	2296	2282
		High (2220)			September 11			
D	Patricia	Low (2000)	April 23	June 23	August 26	September 28	2305	2263
		High (2120)			September 4			
	Raymond	Low (2000)	April 23	June 24	August 31	September 30	2267	2206
		High (2120)			September 8			
	Rosemary	Low (2000)	May 19	June 25	Not Exceeded	September 5	1966	2169
		High (2120)			Not Exceeded			

Late spring frost provision

The late spring frost provision was not initiated in 2018 as a minimum temperature at any specified weather station of less than zero degrees Celsius did not occur on or after June 1 or before 700 CHUs being recorded.

Corn Heat Unit Insurance weather station history

Date (as of)	Bow Island North			Bow Island South			Seven Persons		
	2018 YTD	2017 YTD	2016 YTD	2018 YTD	2017 YTD	2016 YTD	2018 YTD	2017 YTD	2016 YTD
May 31	319	257	194	316	256	191	307	246	192
June 30	919	843	789	896	834	775	867	806	767
July 31	1590	1550	1471	1541	1532	1446	1516	1504	1438
August 31	2208	2223	2106	2141	2176	2079	2121	2167	2069
September 30	2479	2540	2503	2414	2486	2485	2393	2578	2531
CHU Thresholds	Low – 2260 CHUs High – 2380 CHUs			Low – 2260 CHUs High – 2380 CHUs			Low – 2260 CHUs High – 2380 CHUs		
Date Last Spring Frost (< 0 C)	May 12 (- 1.2 degree C)			May 12 (- 0.78 degree C)			May 12 (- 1.0 degree C)		
Date 700 CHUs Exceeded	June 21			June 21			June 22		
Date CHU Thresholds Exceeded	Low – September 5 High – September 11			Low – September 8 High – September 21			Low – September 9 High – September 25		
Date First Fall Killing Frost (<= - 2.0 C)	September 28 (- 2.1 degree C)			September 30 (- 3.3 degree C)			September 28 (- 2.3 degree C)		
Actual CHU Accumulation	2479			2414			2393		
Adjustment for Late Spring Frost	0			0			0		
Final Adjusted CHU Accumulation	2479			2414			2393		
Payment Rate (Silage)	Low – No Payment High – No Payment			Low – No Payment High – No Payment			Low – No Payment High – No Payment		
Payment Rate (Grain)	Low – No Payment High – No Payment			Low – No Payment High – No Payment			Low – No Payment High – No Payment		

Bow Island North – Alberta Agriculture & Forestry, Engineering and Climate Services

Bow Island South – Alberta Agriculture & Forestry, Engineering and Climate Services

Seven Persons – Alberta Agriculture & Forestry, Engineering and Climate Services

Corn Heat Unit Insurance weather station history

Date (as of)	Fincastle/Taber								
	2018 YTD	2017 YTD	2016 YTD						
May 31	314	266	191						
June 30	893	849	778						
July 31	1549	1533	1442						
August 31	2151	2174	2065						
September 30	2418	2490	2468						
CHU Thresholds	Low – 2260 CHUs High – 2380 CHUs								
Date Last Spring Frost (< 0 C)	April 23 (- 1.5 degree C)								
Date 700 CHU's Exceeded	June 21								
Date CHU Thresholds Exceeded	Low – September 8 High – September 21								
Date First Fall Killing Frost (<= - 2.0 C)	September 29 (- 2.97 degree C)								
Actual CHU Accumulation	2418								
Adjustment for Late Spring Frost	0								
Final Adjusted CHU Accum.	2418								
Payment Rate (Silage)	Low – No Payment High – No Payment								
Payment Rate (Grain)	Low – No Payment High – No Payment								

Fincastle – Alberta Agriculture & Forestry, Engineering and Climate Services

Corn Heat Unit Insurance weather station history

Date (as of)	Brooks			Enchant			Vauxhall		
	2018 YTD	2017 YTD	2016 YTD	2018 YTD	2017 YTD	2016 YTD	2018 YTD	2017 YTD	2016 YTD
May 31	284	255	191	302	260	183	302	259	181
June 30	838	795	764	881	834	762	882	835	765
July 31	1474	1487	1432	1525	1510	1419	1526	1514	1429
August 31	2058	2091	2041	2116	2126	2030	2115	2143	2045
September 30	2295	2372	2284	2337	2379	2420	2359	2395	2432
CHU Thresholds	Low – 2160 CHUs High – 2280 CHUs			Low – 2160 CHUs High – 2280 CHUs			Low – 2160 CHUs High – 2280 CHUs		
Date Last Spring Frost (< 0 C)	May 12 (- 2.7 degree C)			April 26 (- 0.46 degree C)			April 23 (- 1.1 degree C)		
Date 700 CHUs Exceeded	June 24			June 22			June 22		
Date CHU Thresholds Exceeded	Low – September 8 High – September 25			Low – September 4 High – September 11			Low – September 4 High – September 11		
Date First Fall Killing Frost (<= - 2.0 C)	September 20 (- 2.2 degree C)			September 17 (- 2.4 degree C)			September 17 (- 2.7 degree C)		
Actual CHU Accumulation	2295			2337			2359		
Adjustment for Late Spring Frost	0			0			0		
Final Adjusted CHU Accum.	2295			2337			2359		
Payment Rate (Silage)	Low – No Payment High – No Payment			Low – No Payment High – No Payment			Low – No Payment High – No Payment		
Payment Rate (Grain)	Low – No Payment High – No Payment			Low – No Payment High – No Payment			Low – No Payment High – No Payment		

Brooks – Alberta Agriculture & Forestry, Engineering and Climate Services

Enchant – Alberta Agriculture & Forestry, Engineering and Climate Services

Vauxhall – Alberta Agriculture & Forestry, Engineering and Climate Services

Corn Heat Unit Insurance weather station history

Date (as of)	Iron Springs			Lethbridge			Rolling Hills		
	2018 YTD	2017 YTD	2016 YTD	2018 YTD	2017 YTD	2016 YTD	2018 YTD	2017 YTD	2016 YTD
May 31	290	252	172	293	243	172	285	250	188
June 30	817	806	749	831	797	725	844	796	757
July 31	1450	1477	1405	1462	1463	1375	1470	1468	1409
August 31	2055	2089	2014	2065	2091	1975	2050	2077	2012
September 30	2287	2486	2409	2306	2397	2136	2296	2311	2401
CHU Thresholds	Low – 2100 CHUs High – 2220 CHUs			Low – 2100 CHUs High – 2220 CHUs			Low – 2100 CHUs High – 2220 CHUs		
Date Last Spring Frost (< 0 C)	May 12 (- 0.56 degree C)			May 12 (- 2.1 degree C)			May 19 (- 0.86 degree C)		
Date 700 CHUs Exceeded	June 24			June 24			June 23		
Date CHU Thresholds Exceeded	Low – September 4 High – September 19			Low – September 3 High – September 11			Low – September 5 High – September 11		
Date First Fall Killing Frost (<= - 2.0 C)	September 29 (- 1.97 degree C)			September 30 (- 2.3 degree C)			September 28 (- 2.9 degree C)		
Actual CHU Accumulation	2287			2306			2296		
Adjustment for Late Spring Frost	0			0			0		
Final Adjusted CHU Accum.	2287			2306			2296		
Payment Rate (Silage)	Low – No Payment High – No Payment			Low – No Payment High – No Payment			Low – No Payment High – No Payment		
Payment Rate (Grain)	Low – No Payment High – No Payment			Low – No Payment High – No Payment			Low – No Payment High – No Payment		

Iron Springs – Alberta Agriculture & Forestry, Engineering and Climate Services

Lethbridge – Alberta Agriculture & Forestry, Engineering and Climate Services

Rolling Hills – Alberta Agriculture & Forestry, Engineering and Climate Services

Corn Heat Unit Insurance weather station history

Date (As of)	Patricia			Raymond			Rosemary		
	2018 YTD	2017 YTD	2016 YTD	2018 YTD	2017 YTD	2016 YTD	2018 YTD	2017 YTD	2016 YTD
May 31	296	252	194	288	245	165	275	244	180
June 30	848	796	772	811	792	706	787	756	710
July 31	1490	1484	1442	1419	1445	1344	1378	1395	1346
August 31	2074	2113	2054	2014	2055	1942	1922	1948	1926
September 30	2305	2345	2415	2267	2358	2327	1966	2168	2199
CHU Thresholds	Low – 2000 CHUs High – 2120 CHUs			Low – 2000 CHUs High – 2120 CHUs			Low – 2000 CHUs High – 2120 CHUs		
Date Last Spring Frost (< 0 C)	May 15 (- 1.5 deg C)			May 14 (- 0.1 deg C)			May 16 (- 1.6 deg C)		
Date 700 CHUs Exceeded	June 26			June 26			June 27		
Date CHU Thresholds Exceeded	Low – August 26 High – September 1			Low – August 29 High – September 4			Low – September 3 High – September 11		
Date First Fall Killing Frost (<= - 2.0 C)	September 15 (- 2.0 degree C)			September 24 (- 4.9 degree C)			September 16 (- 3.0 degree C)		
Actual CHU Accumulation	2305			2267			1966		
Adjustment for Late Spring Frost	0			0			0		
Final Adjusted CHU Accum.	2305			2267			1966		
Payment Rate (Silage)	Low – No Payment High – No Payment			Low – No Payment High – No Payment			Low – 6% High – 24%		
Payment Rate (Grain)	Low – No Payment High – No Payment			Low – No Payment High – No Payment			Low – 10% High – 38%		

Patricia – Alberta Agriculture & Forestry, Engineering and Climate Services

Raymond – Alberta Agriculture & Forestry, Engineering and Climate Services

Rosemary – Alberta Agriculture & Forestry, Engineering and Climate Services