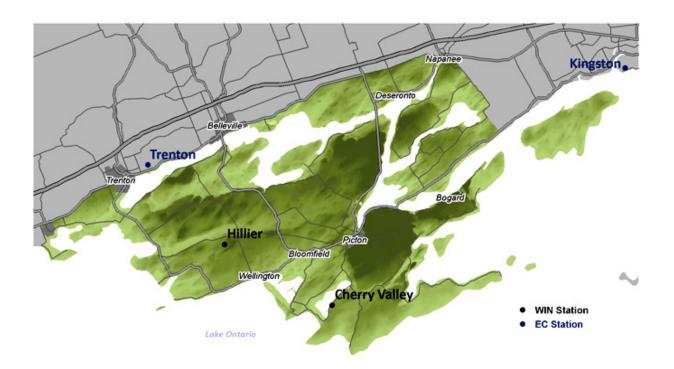


December 2011:

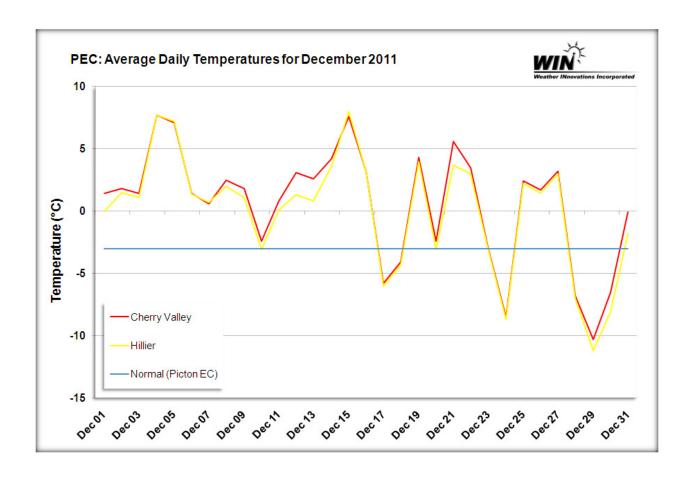
Temperature & Icewine Hours Summary Prince Edward County



Wayne Heinen January 10, 2012

Overview

A much warmer than normal December 2011 in the Prince Edward County appellation meant fewer harvest opportunities for producers who chose to make icewine this year. Temperatures were drastically different from the previous December. The average monthly temperature was 0.6 °C at Cherry Valley and 0°C at Hillier (compared to -4.1 °C at both Cherry Valley and Hillier in 2010). Accordingly, the average monthly temperatures at Cherry Valley and Hillier were 3.6 °C and 3.0 °C, respectively, <u>above</u> normal, compared to 1.1 °C <u>below</u> normal in 2010. These statistics are based on Environment Canada's 30-year normal for Picton. This summary illustrates minimum December 2011 temperatures, as well as the icewine harvest opportunities that arose. For this report, icewine hours are defined as instances when the average hourly temperature was between –8.0°C and –12.0°C, inclusive. Events are focused at opportunities encompassing a minimum 6 hour period.



Temperature Analysis

The monthly minimum temperature in December 2011 was -16.5°C (compared to -14.4°C in 2010) at the Cherry Valley station and -16.4°C (compared to -16.9°C in 2010) at the Hillier station. These monthly minimum temperatures, occurring on the 29th of December, are similar to those reached in 2010. This is surprising since temperatures were much warmer on average this December. There were 7 days (compared to 18 days in 2010) when temperatures, at one or more stations, dipped into icewine temperature ranges.

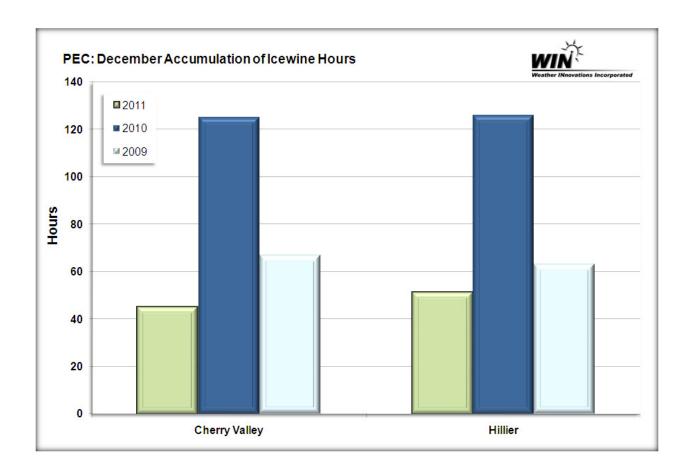


PEC: December 2011 Daily Minimums			
	Ch		
	orn.		
	18.	4/1.	
Date & Time	Chern Valley	Hiller.	
01-Dec	-4.8	-5.6	
02-Dec	-4.8	-5.6	
03-Dec	-5.9	-6.4	
04-Dec	4.8	4.7	
05-Dec	2.8	2.9	
06-Dec	0.5	0.7	
07-Dec	0	-0.2	
08-Dec	0.1	-1.1	
09-Dec	-1	-1.5	
10-Dec	-3.6	-4.5	
11-Dec	-3	-4	
12-Dec	0.4	-4.4	
13-Dec	-1.2	-5.2	
14-Dec	-1	-1.4	
15-Dec	5.6	5.7	
16-Dec	0.3	0	
17-Dec	-10.3	-11.7	
18-Dec	-10.5	-11.8	
19-Dec	1.9	1.7	
20-Dec	-5.8	-6.2	
21-Dec	2.5	-1.9	
22-Dec	1.2	0.7	
23-Dec	-10.7	-10.3	
24-Dec	-12.7	-12.6	
25-Dec	-2.8	-2.8	
26-Dec	-1.5	-1.6	
27-Dec	0.8	0.2	
28-Dec	-13.8	-14.3	
29-Dec	-16.5	-16.4	
30-Dec	-8.3	-9.7	
31-Dec	-3	-5.1	
		Icewine Temperatures	
WIN		Monthly Minimum	



Icewine Hours Analysis

There were plenty of freeze/thaw events this December, but very few of these events stayed within the icewine temperature range, resulting in a low monthly total of icewine hours. As seen in the following two figures, all of the stations accumulated fewer icewine hours than in the previous two years, especially as compared to December 2010! The Cherry Valley station recorded 45 hours (compared to 125 hours in December 2010) and the Hillier station recorded 51 hours (compared to 126 hours in December 2010). These hours occurred during only 3-4 periods with a suitably cold number of hours for harvesting icewine grapes in December 2011.



Summary

December 2011 temperatures were significantly above normal; average temperatures for the month were $3.0\,^{\circ}\text{C} - 3.6\,^{\circ}\text{C}$ above the 30-year normal for Picton. The coldest December event took place on the 29^{th} , reaching -16.5 $^{\circ}\text{C}$ at the Cherry Valley station. This was surprisingly similar to the previous year when the coldest December event reached -16.9 $^{\circ}\text{C}$ at the Hillier station. There were 7 days when temperatures, at one or more stations, dipped into icewine ranges. These conditions provided a later than normal harvest for growers who chose to produce icewine this year.



	Cherry Lalley	
	'e _{rr}	
	14	4.
ate & Time	°1/6.	Hiller.
410 W 111110	Potential Jacuina Onner	dunity.
12/17/2011 17:00	Potential Icewine Oppor -6.8	-6.3
12/17/2011 17:00	-0.8 -7.9	-0.3 -7.6
12/17/2011 18:00	-8.6	-8.2
12/17/2011 19:00	-8.8	-8.8
12/17/2011 20:00	-9.3	-9.3
12/17/2011 21:00	-9.6	-9.8
12/17/2011 23:00	-9.7	-10.7
12/18/2011 23:00	-9.7 -10.1	-10.7
12/18/2011 00:00	-10.1	-11
12/18/2011 02:00	-10.3	-11.6
12/18/2011 03:00	-10.3	-11.3
12/18/2011 04:00	-10.1	-10
12/18/2011 05:00	-9.8	-9.8
12/18/2011 06:00	-9.7	-10.6
12/18/2011 07:00	-8.7	-11.2
12/18/2011 08:00	-7.4	-9.4
12/18/2011 09:00	-6.1	-7
12/18/2011 10:00	-4.4	-5.2
	Potential Icewine Oppor	tunity
12/23/2011 20:00	-6.9	-7.4
12/23/2011 21:00	-7.8	-8.2
12/23/2011 22:00	-8.8	-8.8
12/23/2011 23:00	-9.7	-9.5
12/24/2011 00:00	-10.5	-10.2
12/24/2011 01:00	-10.8	-10.4
12/24/2011 02:00	-10.9	-10.9
12/24/2011 03:00	-11	-11
12/24/2011 04:00	-11.2	-11.2
12/24/2011 05:00	-11.2	-11.5
12/24/2011 06:00	-11.9	-11.9
12/24/2011 07:00	-12.5 10.0	-12.3
12/24/2011 08:00	-12.6	-12.5
12/24/2011 09:00	-11.7	-12
12/24/2011 10:00	-10.1	-10.6
12/24/2011 11:00	-8.2	-9.2 7.0
12/24/2011 12:00 12/24/2011 13:00	-6.5 -5.9	-7.9 -6.6
12/24/2011 13:00	-ა.ყ	-0.0



ate & Time Cherty Lalley Potential Icewine Opportunity				
	ne _r			
	24	4.		
e & Time	41/6,	Hiller		
Potential Icewine Opportunity				
12/28/2011 08:00	-5.2	-5.7		
12/28/2011 09:00	-6.9	-7.1		
12/28/2011 10:00	-8.1	-8.3		
12/28/2011 11:00	-8.7	-8.6		
12/28/2011 12:00	-9	-8.5		
12/28/2011 13:00	-8.8	-8.4		
12/28/2011 14:00	-8.7	-8.3		
12/28/2011 15:00	-8.4	-7.9		
12/28/2011 16:00	-8.6	-8.4		
12/28/2011 17:00	-9.5	-9.7		
12/28/2011 18:00	-10	-10.4		
12/28/2011 19:00	-10.5	-11		
12/28/2011 20:00	-11.3	-11.7		
12/28/2011 21:00	-11.9	-12.3		
12/28/2011 22:00	-12.6	-13		
12/28/2011 23:00	-13.1	-13.5		
12/29/2011 00:00	-13.6	-14.1		
12/29/2011 01:00	-14.2	-14.5		
12/29/2011 02:00	-14.9	-15		
12/29/2011 03:00	-15.5	-15.6		
12/29/2011 04:00	-15.8	-15.9		
12/29/2011 05:00	-15.8	-15.9		
12/29/2011 06:00	-16	-16.1		
12/29/2011 07:00	-16.3	-16.2		
12/29/2011 08:00	-16.4	-16.3		
12/29/2011 09:00	-15.1	-15.5		
12/29/2011 10:00	-13.4	-13.8		
12/29/2011 11:00	-10.1	-12		
12/29/2011 12:00	-8	-10		
12/29/2011 13:00	-7.3	-8.7		
12/29/2011 14:00	-6.9	-7.7		
12/29/2011 15:00	-7.2	-6.9		
\				
πŇ [₹]		Icewine Temperatures		
		Below Icewine Temperatures		



PEC: Icewine Opportunities (6 Hour Minimum)					
	hern Valley				
	24	4.			
Date & Time	A/161	Hillier N			
	Potential Icewine Oppor				
12/29/2011 22:00	-4.6	-7.6			
12/29/2011 23:00	-4.6	-7.8			
12/30/2011 00:00	-6.1	-8.4			
12/30/2011 01:00	-6.9	-8.8			
12/30/2011 02:00	-7.9	-9.6			
12/30/2011 03:00	-8.1	-9.6			
12/30/2011 04:00	-8	-9.5			
12/30/2011 05:00	-8	-9.4			
12/30/2011 06:00	-7.7	-9.3			
12/30/2011 07:00	-7.6	-9.1			
12/30/2011 08:00	-7.8	-9.4			
12/30/2011 09:00	-8.1	-9.4			
12/30/2011 10:00	-7.9	-9.3			
12/30/2011 11:00	-7.1	-8.8			
12/30/2011 12:00	-6.3	-8.2			
12/30/2011 13:00	-5.6	-7.9			
12/30/2011 14:00	-5.2	-7.5			
*					
WIN		Icewine Temperatures			
VV 1 14 "		Below Icewine Temperatures			

