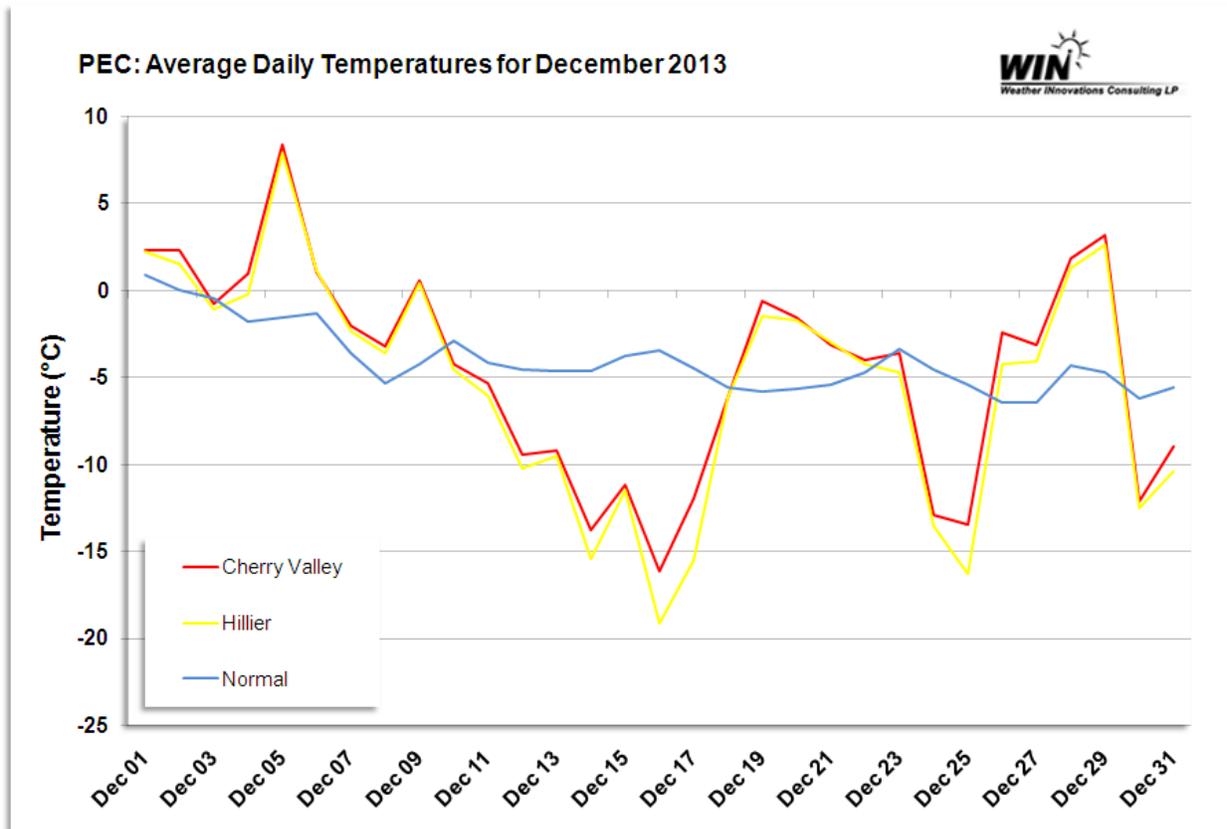


December 2013

Overview

A much colder-than-normal December in the Prince Edward County appellation was a noticeable change, following two consecutive Decembers with above-normal temperatures. Average monthly temperatures were -4.4°C at Cherry Valley and -5.3°C at Hillier (compared to 0°C at Cherry Valley and -0.5°C at Hillier in 2012). Accordingly, the average monthly temperatures were 1.4°C below normal at Cherry Valley and 2.3°C below normal at Hillier (compared to 3.0°C above normal at Cherry Valley and 2.5°C above normal at Hillier in 2012). These statistics are based on Environment Canada's 30-year normal for Picton. This summary illustrates minimum December 2013 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.



Temperature Analysis

The colder-than-normal temperatures this winter actually began in November 2013, with the coldest temperature reaching -14.4°C at the Cherry Valley station and -18.2°C at the Hillier station. The monthly



minimum temperatures in December 2013 were -22.2°C (compared to -11.3°C in 2012) at the Cherry Valley station and -29.6°C (compared to -12.4°C in 2012) at the low-lying Hillier station. These monthly minimum temperatures occurred on the 16th and 25th of December. There were 16 days (compared to 8 days in 2012) when temperatures, at one or more stations, dipped into icewine temperature ranges.

PEC: December 2013 Daily Minimums

Date & Time	Cherry Valley	Hillier
1-Nov	10.4	9.3
2-Nov	0	-0.6
3-Nov	-5.2	-8.5
4-Nov	-5.2	-9.3
5-Nov	4.2	3.6
6-Nov	9.6	8.3
7-Nov	3.7	3.1
8-Nov	-0.5	-2
9-Nov	-0.5	-1.8
10-Nov	3	2.2
11-Nov	-1.6	-2.1
12-Nov	-6.5	-9.5
13-Nov	-7.4	-12.2
14-Nov	3.8	2.7
15-Nov	4.9	1.1
16-Nov	4.1	1.2
17-Nov	9.8	9.7
18-Nov	2	1
19-Nov	-4.9	-8.4
20-Nov	-7.6	-11.4
21-Nov	2.4	-0.5
22-Nov	-1.1	-1.7
23-Nov	-9.7	-10
24-Nov	-11.5	-13.8
25-Nov	-12.7	-13.8
26-Nov	-0.4	-0.6
27-Nov	-7.3	-8
28-Nov	-8.7	-12.9
29-Nov	-14.4	-18.1
30-Nov	-13.7	-18.2



	Icewine Temperatures
	Monthly Minimum

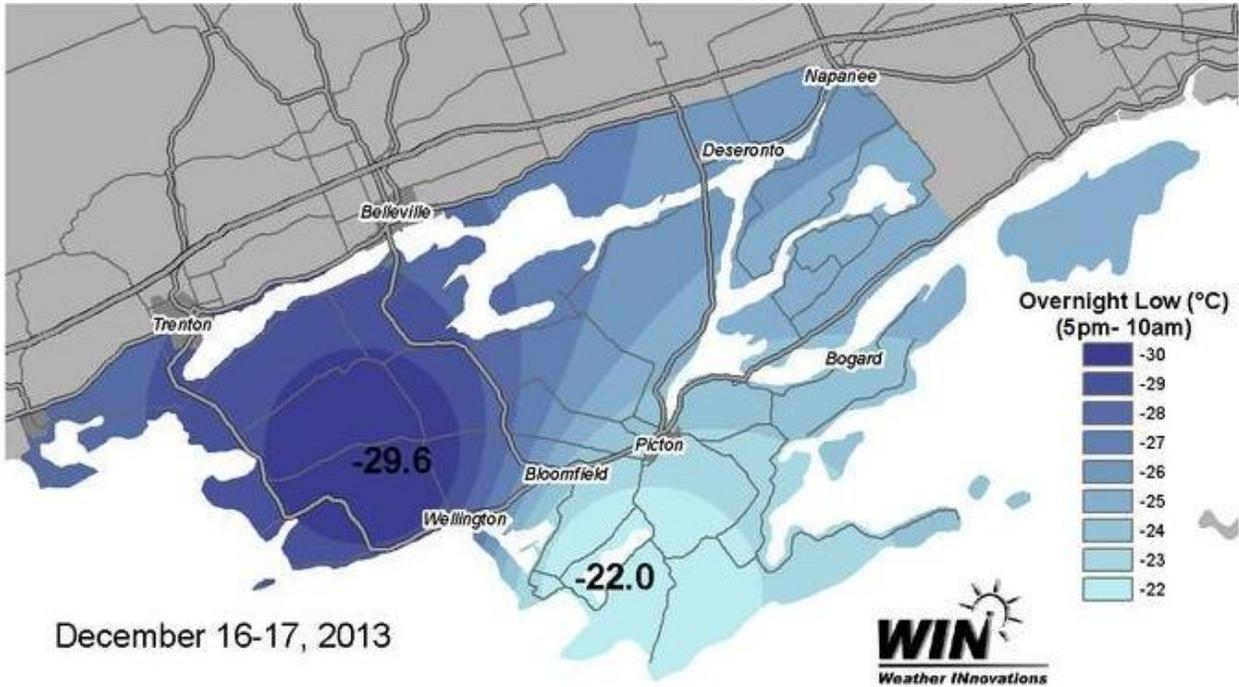
PEC: December 2013 Daily Minimums

Date & Time	Cherry Valley	Hillier
1-Dec	1.2	1
2-Dec	-0.8	-1.6
3-Dec	-3.7	-5.7
4-Dec	-2.2	-3.9
5-Dec	3.5	1.2
6-Dec	-1.2	-1.2
7-Dec	-4.1	-5.3
8-Dec	-5.8	-8.9
9-Dec	-2.3	-1.9
10-Dec	-6.8	-7.1
11-Dec	-10.9	-13.5
12-Dec	-16.3	-17
13-Dec	-16.7	-16.7
14-Dec	-16.9	-17.3
15-Dec	-14.1	-14.9
16-Dec	-20.6	-29.6
17-Dec	-22	-26.3
18-Dec	-12.6	-13.6
19-Dec	-4.1	-7.1
20-Dec	-4.6	-4.2
21-Dec	-5.3	-5.3
22-Dec	-5.2	-5.1
23-Dec	-10.7	-12
24-Dec	-17	-19.6
25-Dec	-22.2	-26.4
26-Dec	-3.8	-9.1
27-Dec	-7.2	-10.5
28-Dec	-2.1	-2.5
29-Dec	-3.3	-4.2
30-Dec	-14.9	-15.9
31-Dec	-14.8	-14.7

	Icewine Temperatures
	Monthly Minimum

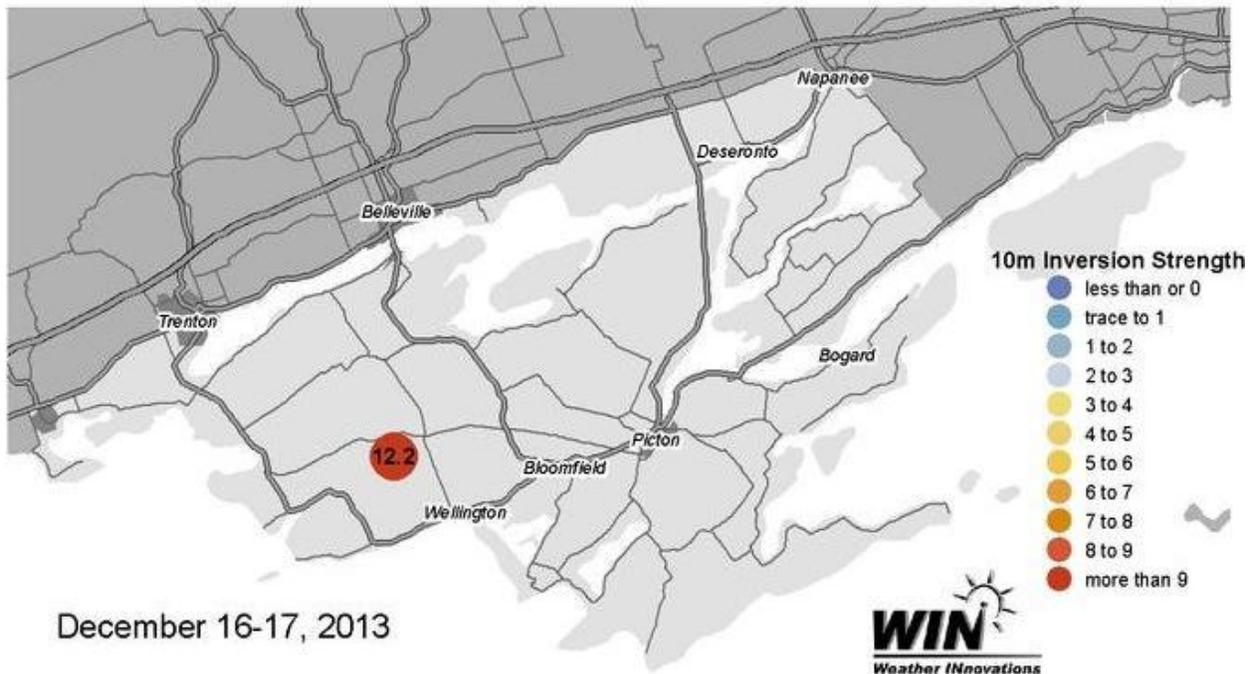
Inversion Strength

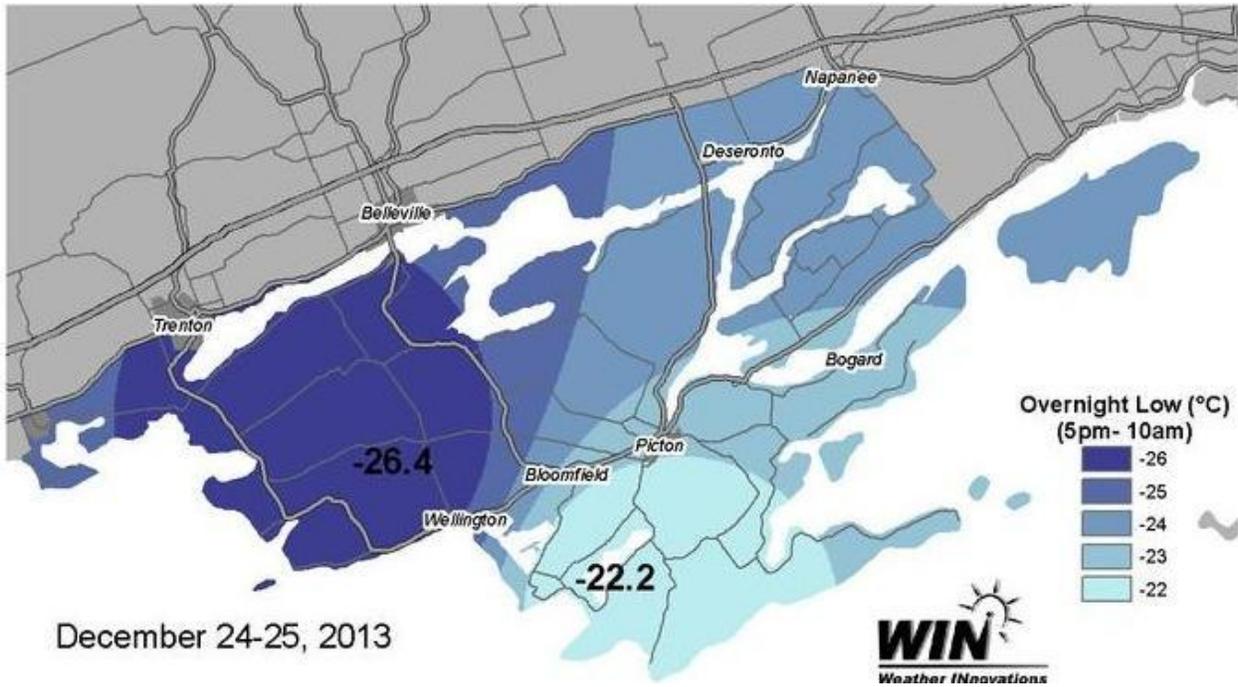
The following 4 figures show the coldest December nights: December 16-17 and 24-25. Note that both of these nights had suitable inversion strengths for running wind machines.



These **10m Inversion Strengths** were present during the 15-minute period at which the overnight low was reached.

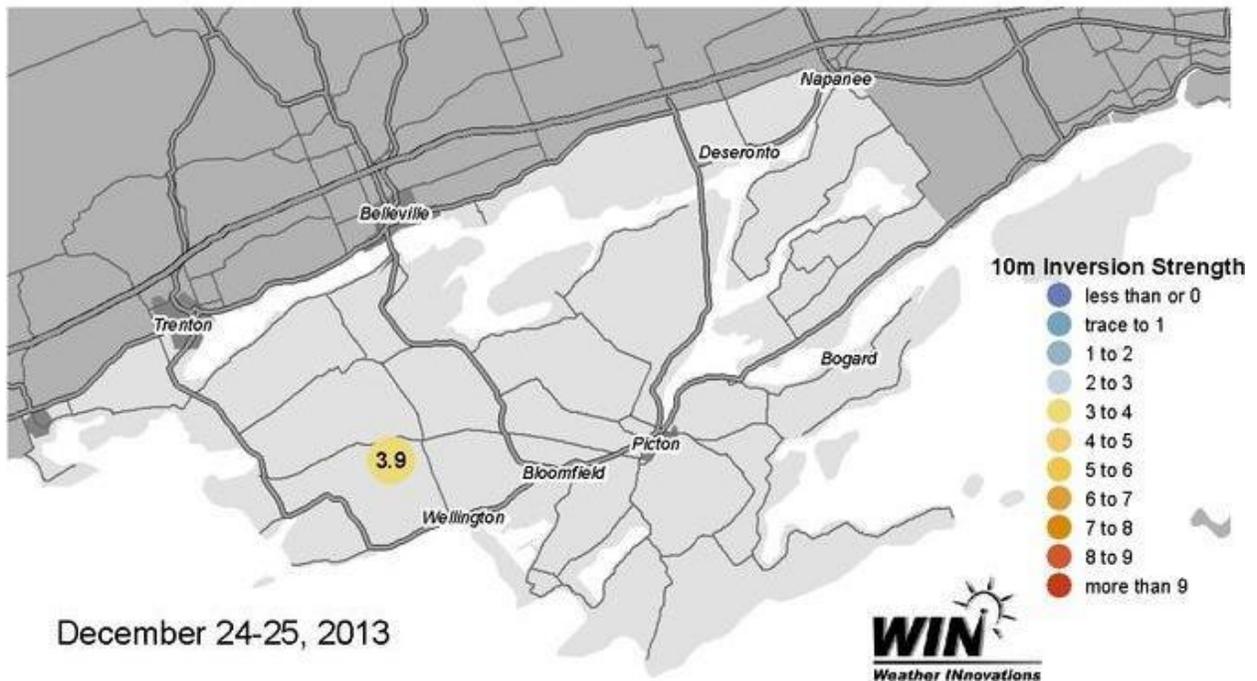
* This map is preliminary. Final version will be released after 10:00 AM





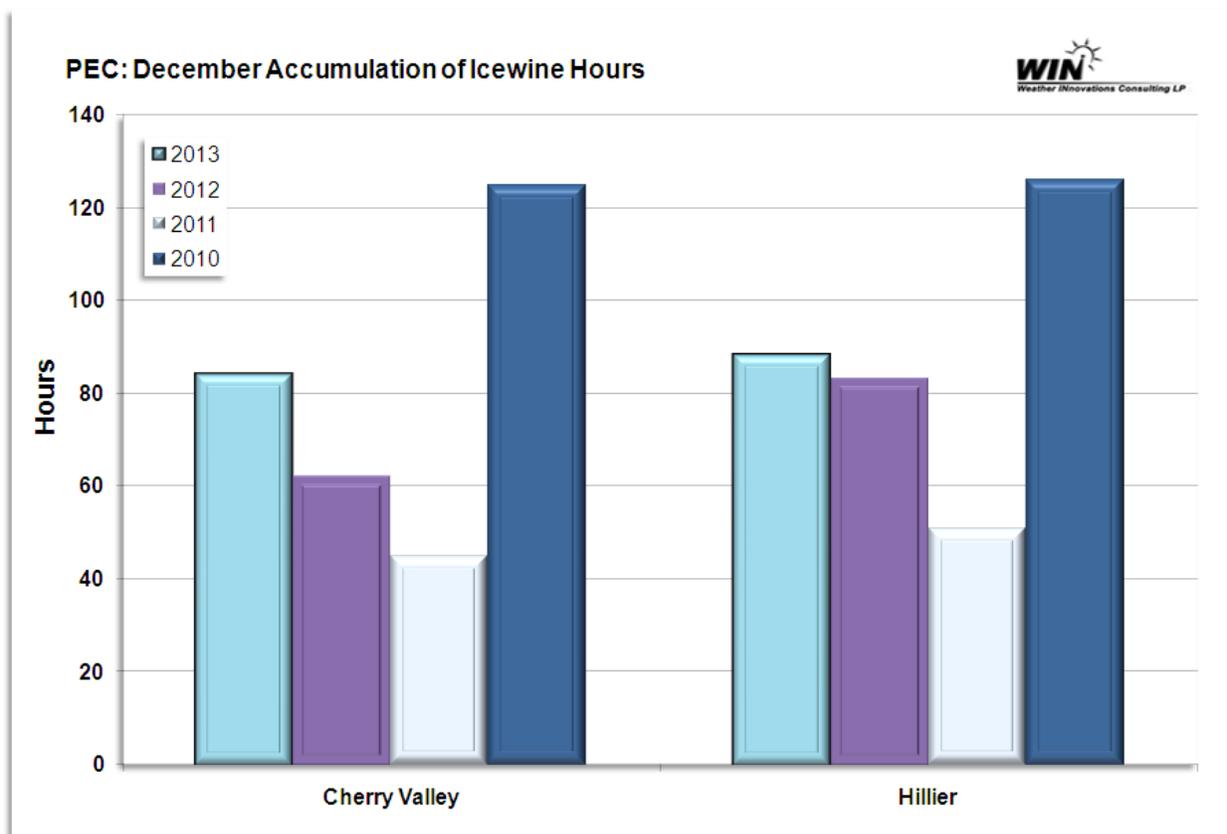
These **10m Inversion Strengths** were present during the 15-minute period at which the overnight low was reached.

* This map is preliminary. Final version will be released after 10:00 AM



Icewine Hours Analysis

Icewine hours were abundant in both November and December with the harvest beginning as early as November 11 for most locations. As seen in the following figure, both stations accumulated a greater number of icewine hours than in 2010, 2011 and 2012. The Prince Edward County stations recorded between 84 and 88 icewine hours in December 2013, compared to between 62 to 83 icewine hours in 2012! Due to the frequent icewine harvest opportunities, many completed the icewine harvest by the end of December.



Summary

December 2013 temperatures were significantly below normal in the Prince Edward County appellation; average temperatures for the month were 1.4°C to 2.3°C below the 30-year normals. The coldest temperature reached was -29.6°C on December 16th at the Hillier station. November and December 2013 provided ample opportunities for harvesting icewine grapes at most locations. These conditions led to an early completion of the icewine harvest for many this year.