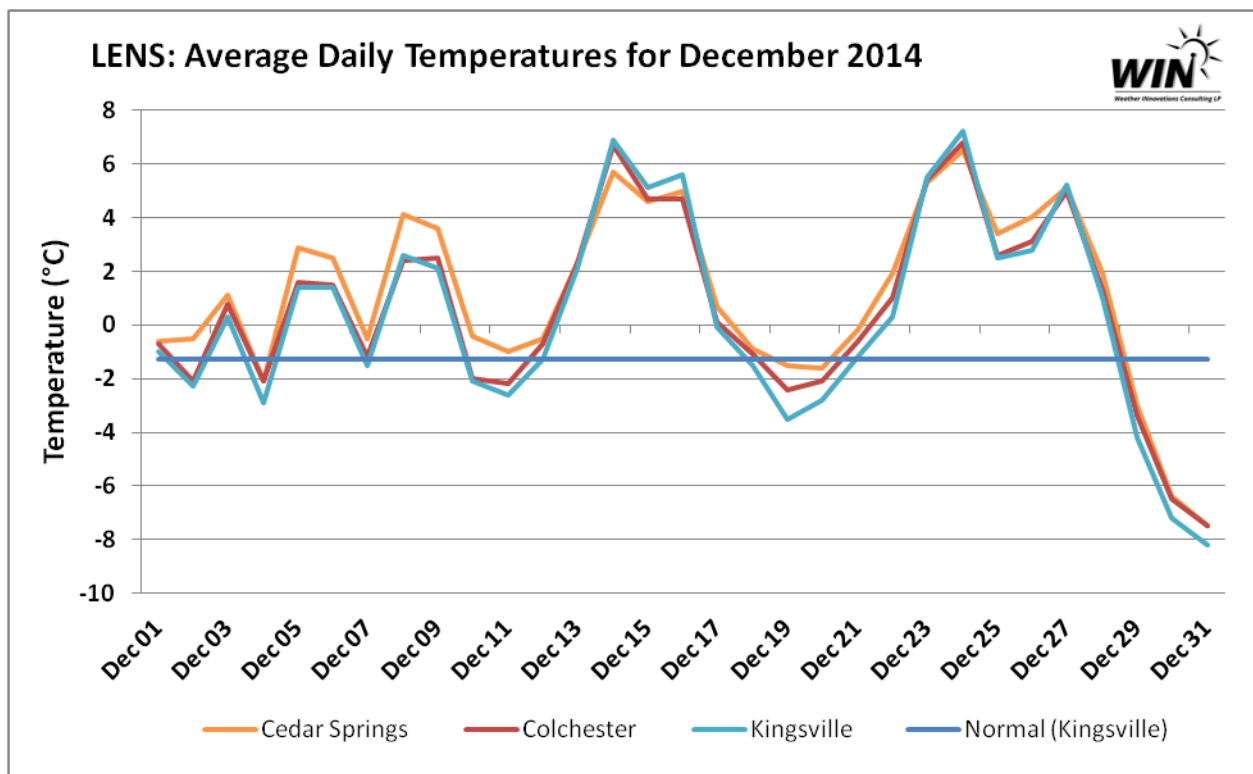




December 2014

Overview

Average December temperatures at Cedar Springs, Colchester, and Kingsville were 1.1 °C, 0.6 °C, and 0.3 °C respectively (compared to -2.9 °C, -2.7 °C, and -2.9 °C respectively in 2013). Accordingly, the average monthly temperatures were 1.6 °C to 2.4 °C above normal for the Lake Erie North Shore appellation (compared to 1.4 °C to 1.6 °C below normal in 2013). These statistics are based on Environment Canada's 30-year normals for Kingsville. This summary illustrates December 2014 minimum temperatures and icewine hours. For this report, icewine hours are defined as instances when the average hourly temperature was between -8.0 °C and -1.20 °C, inclusive.



Temperature Analysis

The monthly minimum temperatures for each site in December 2014 were -10.7 °C (compared to -15.6 °C in 2013) at the Cedar Springs station; -10.4 °C (compared to -16.2 °C in 2013) at the Colchester station; and -11.7 °C (compared to -17.2 °C in 2013) at the Kingsville station. These monthly minimum temperatures occurred on December 31. There were 2 days this month, compared to 12 days in December 2013, when temperatures, at one or more stations, dipped into icewine temperature ranges. There were 5 days in November when one or more stations recorded icewine temperature ranges.



LENS: Daily Minimums

November 2014

Date	Cedar Springs	Colchester	Kingsville
1-Nov	0.4	-0.8	-0.8
2-Nov	-2.8	-2.4	-3.2
3-Nov	5.4	5.5	4
4-Nov	8.3	7.3	6.9
5-Nov	6.5	6.1	4.3
6-Nov	5.2	4.5	4.1
7-Nov	-0.3	-1.6	-0.2
8-Nov	4.2	4	3.2
9-Nov	2.7	0.5	0.5
10-Nov	7.6	6.1	6.3
11-Nov	6	4.8	4.4
12-Nov	0.7	-0.4	-0.5
13-Nov	-3	-3.7	-4.4
14-Nov	-4.4	-4.4	-5.3
15-Nov	-2.9	-5.5	-5.8
16-Nov	-1.8	-0.8	-2.5
17-Nov	-8.8	-8.9	-9.2
18-Nov	-10.1	-9.9	-10.3
19-Nov	-9.2	-8.5	-9.2
20-Nov	-8.2	-8.6	-9.6
21-Nov	-10.2	-10.8	-11.8
22-Nov	-0.9	-3.5	-3.7
23-Nov	5.9	3.6	4.2
24-Nov	3	1.8	1.5
25-Nov	-0.6	-1.5	-1.7
26-Nov	-0.9	-1.8	-1.9
27-Nov	-3.3	-4.4	-4.3
28-Nov	-6.3	-7.5	-7.8
29-Nov	0.4	-0.7	-0.9
30-Nov	4.2	4.4	5

December 2014

Date	Cedar Springs	Colchester	Kingsville
1-Dec	-4.7	-5.7	-5.7
2-Dec	-5.7	-5.3	-5.7
3-Dec	-1.3	-1.1	-2.1
4-Dec	-4.6	-3.7	-4.8
5-Dec	0.5	-1.6	-2.4
6-Dec	-1.1	-2.4	-1.9
7-Dec	-4.2	-5.1	-5.5
8-Dec	2.6	1.4	1.4
9-Dec	2.4	0.8	0.4
10-Dec	-2.2	-5.7	-5.8
11-Dec	-4.5	-7.1	-7.8
12-Dec	-2.6	-4.5	-5.2
13-Dec	0.1	-0.2	-0.6
14-Dec	4.7	5.3	5.5
15-Dec	3.9	3.4	3.3
16-Dec	4.2	3.5	4.2
17-Dec	-1.9	-2.8	-3.3
18-Dec	-2	-2.5	-3.3
19-Dec	-2.6	-3.8	-7.8
20-Dec	-2.3	-3.6	-7.8
21-Dec	-2	-1.7	-2.5
22-Dec	0.2	-1.1	-4.1
23-Dec	3	2.8	2.6
24-Dec	3	2.3	2.3
25-Dec	2.6	1.3	1
26-Dec	2.6	1	0.6
27-Dec	3.5	2.9	2.8
28-Dec	-2.2	-2	-3.9
29-Dec	-6.6	-6.5	-7.9
30-Dec	-8	-8.8	-9.3
31-Dec	-10.7	-10.4	-11.7

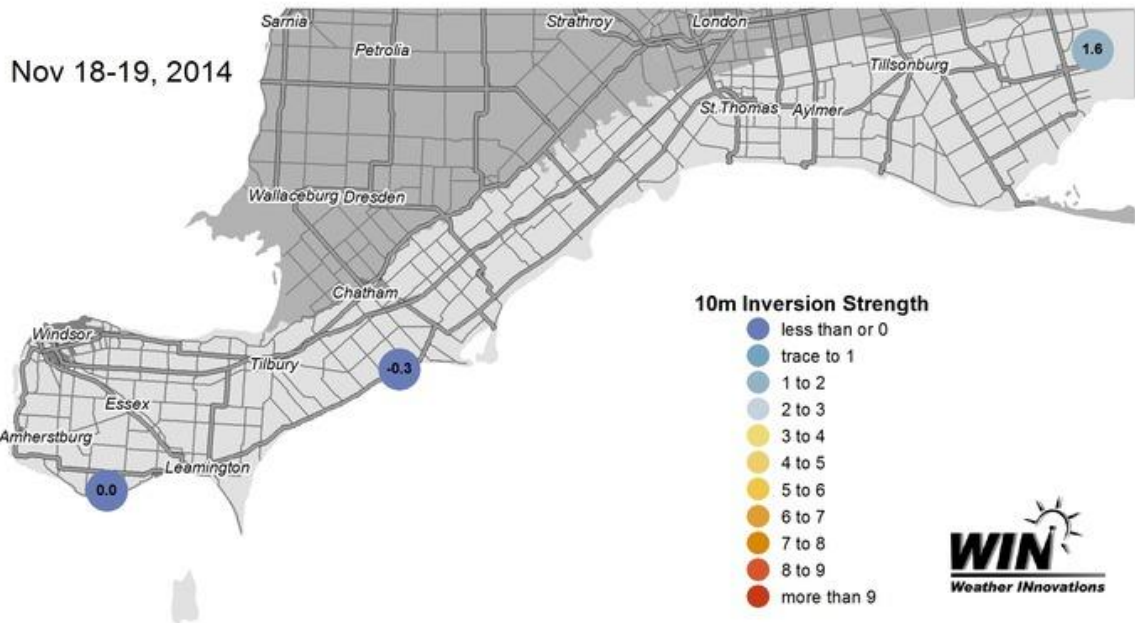
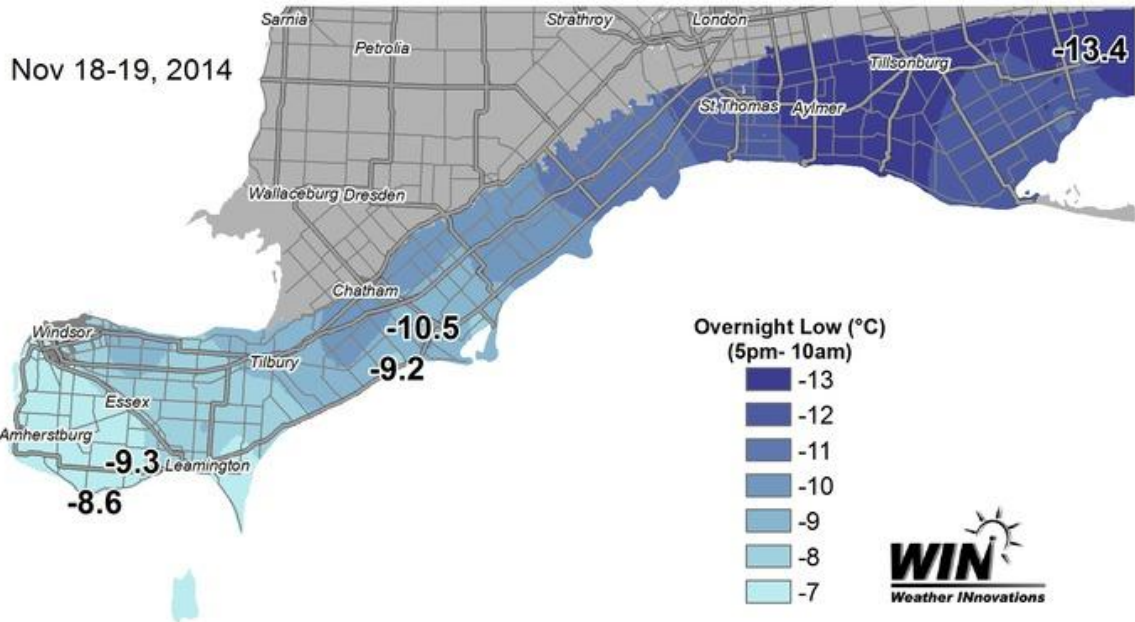


	Days with Icewine Temperatures
	Monthly Minimum



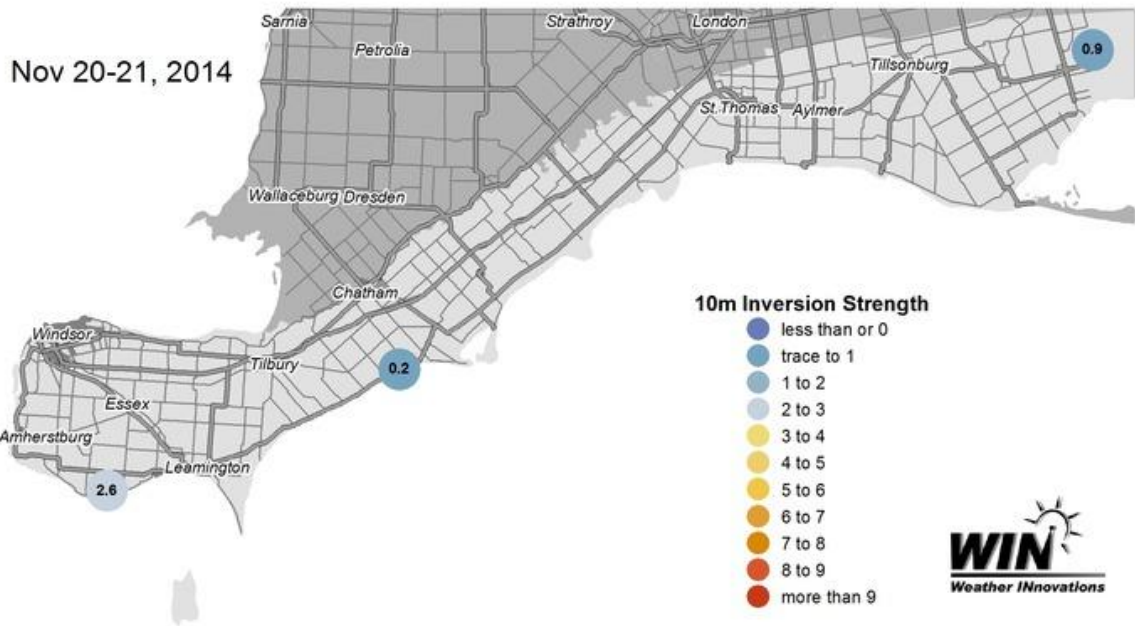
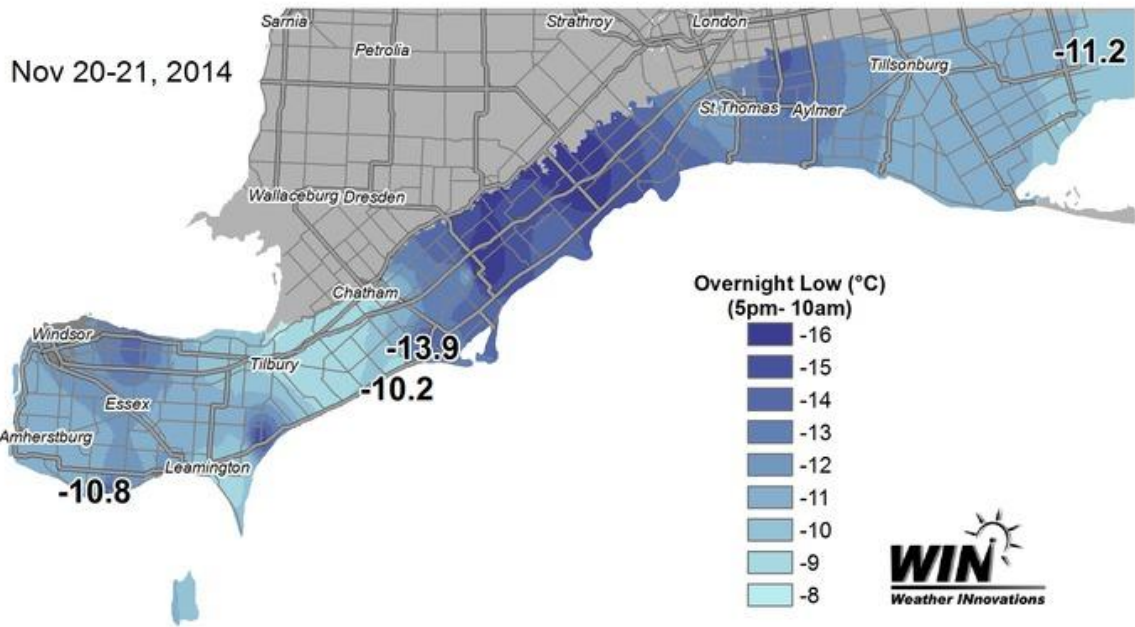
Inversion Strength

The following six figures show the temperature and 10 m inversion strengths for the coldest November and December nights: November 18-19, November 20-21 and December 30-31. Note that these nights had suitable inversion strengths for running wind machines in some areas.



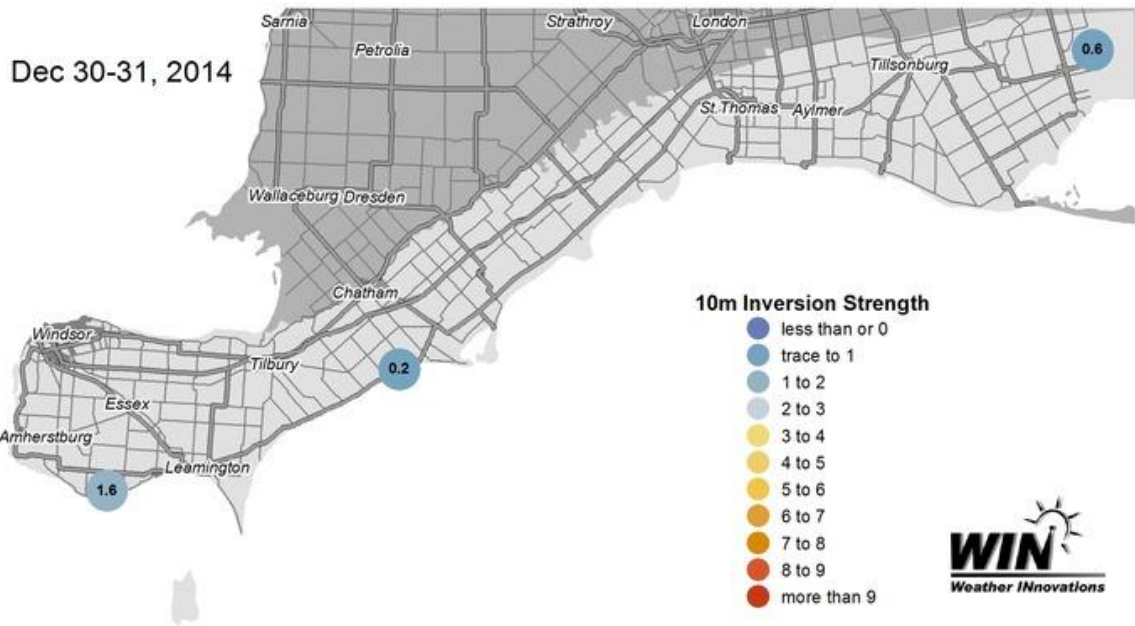
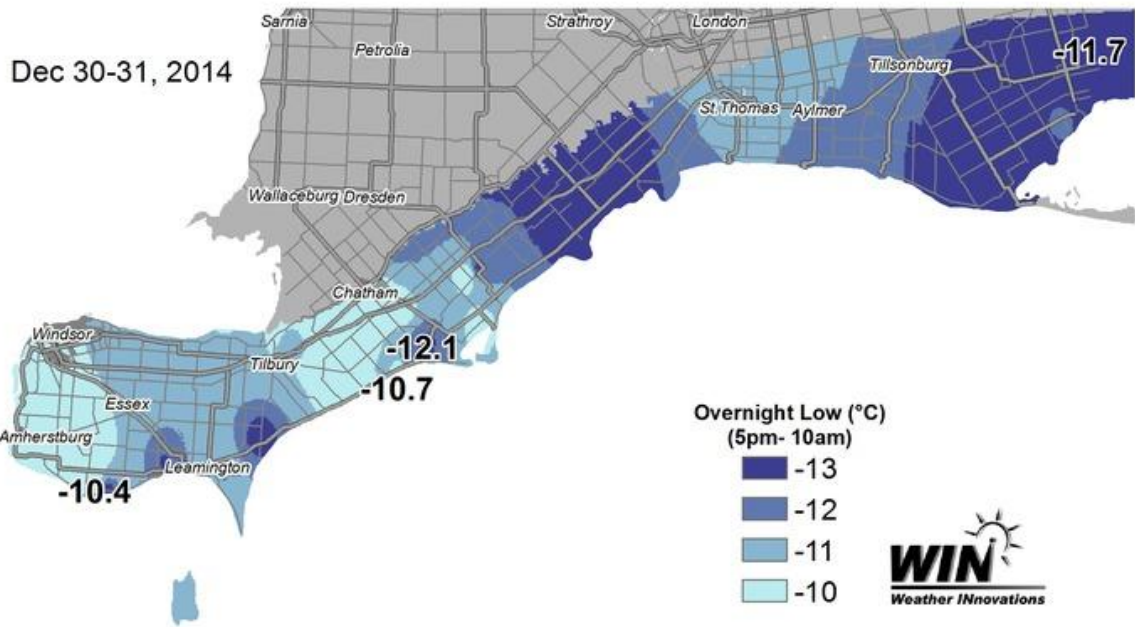


Weather INnovations Consulting LP PO Box 23005, Chatham, ON, N7L 0B1





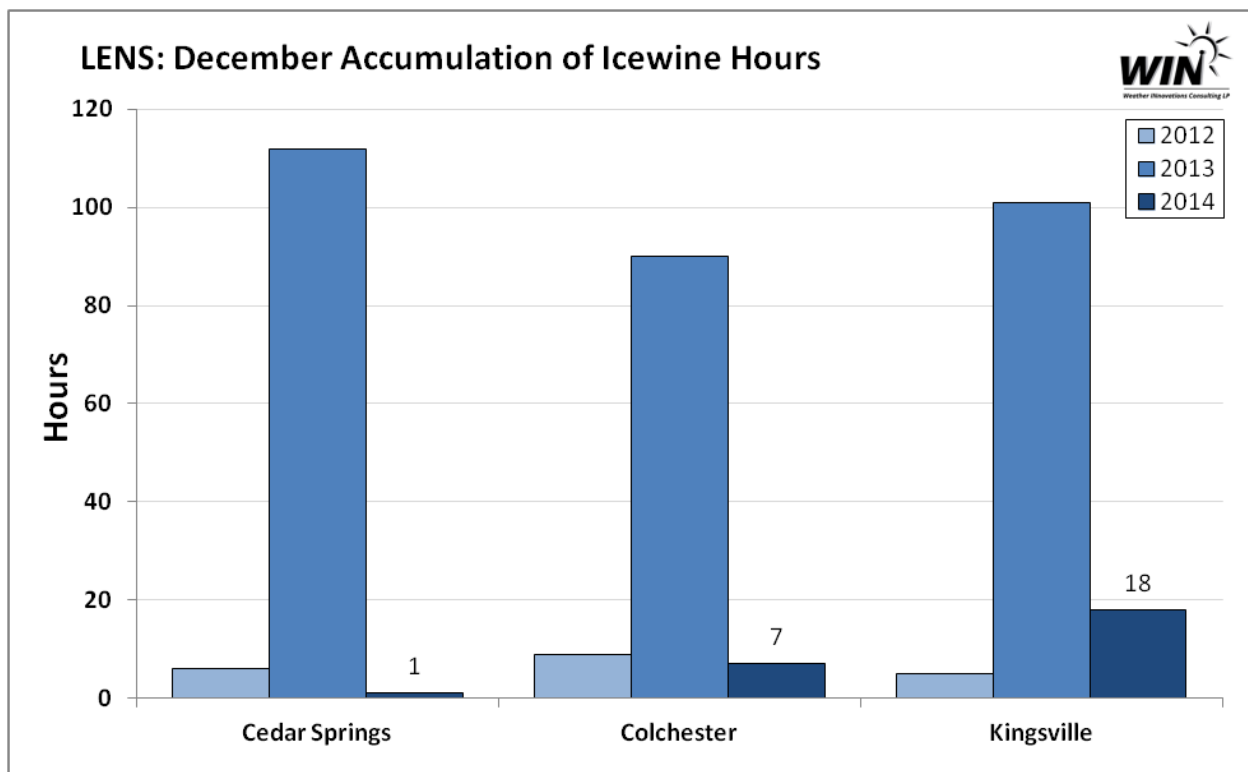
Weather INnovations Consulting LP PO Box 23005, Chatham, ON, N7L 0B1





Icewine Hours Analysis

December 2014 icewine hours were significantly fewer than those recorded in December 2013. Stations recorded between 34 to 40 icewine hours over November 2014. As seen in the following figure, all locations accumulated icewine hours similar to those in 2012 for December. The Lake Erie North Shore stations recorded between 1 and 18 icewine hours in December 2014 compared to between 90 to 112 icewine hours in December 2013. Due to the infrequent icewine harvest opportunities, many harvests were put off until the new-year.



Summary

December 2014 temperatures were above-normal in the Lake Erie North Shore appellation; average temperatures for the month were 1.6 °C to 2.4 °C above the 30-year normals. The coldest temperature reached was -11.7 °C on December 31 at the Kingsville station. November and December provided few opportunities for harvesting icewine grapes at most locations, unlike the previous year. These conditions led to a later completion of the icewine harvest for many this year.