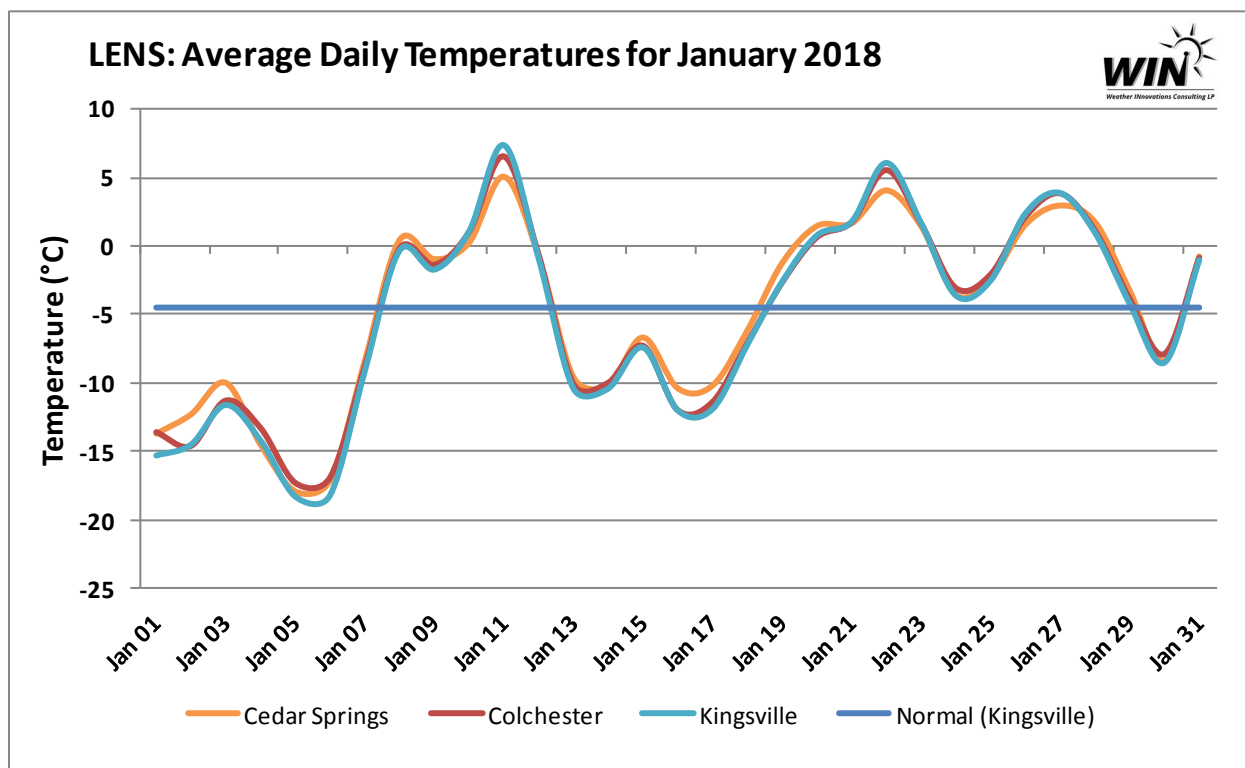




## January 2018

### Overview

January started with below normal temperatures in the appellation. Average monthly temperatures were  $-4.8^{\circ}\text{C}$  at Cedar Springs,  $-4.9^{\circ}\text{C}$  at Colchester, and  $-5.1^{\circ}\text{C}$  at Kingsville (compared to  $-0.9^{\circ}\text{C}$ ,  $-1.0^{\circ}\text{C}$ , and  $-1.3^{\circ}\text{C}$ , respectively, in 2017). Accordingly, the average monthly temperatures were  $0.3^{\circ}\text{C}$  to  $0.6^{\circ}\text{C}$  below normal for Lake Erie North Shore, compared to  $3.2^{\circ}\text{C}$  to  $3.6^{\circ}\text{C}$  above normal in 2017. These statistics are based on Environment Canada's 30-year normals for Kingsville. This summary illustrates minimum January 2018 temperatures and the icewine harvest opportunities that arose. For this report, icewine hours are defined as instances when the average hourly temperature ranged between  $-8.0^{\circ}\text{C}$  and  $-12.0^{\circ}\text{C}$ , inclusive.



### Temperature Analysis

The January 2017 monthly minimum temperature for each site was  $-21.3^{\circ}\text{C}$  at the Cedar Springs station,  $-23.0^{\circ}\text{C}$  at the Colchester station, and  $-23.9^{\circ}\text{C}$  at the Kingsville station (compared to  $-15.9^{\circ}\text{C}$ ,  $-14.9^{\circ}\text{C}$ , and  $-15.8^{\circ}\text{C}$ , respectively, in 2017). These minimum temperatures occurred on January 1 at Kingsville and on January 6 at Cedar Springs and Colchester. There were 14 days, compared to 7 days in January 2017, when temperatures at one or more stations dipped into icewine temperature ranges. These temperature characteristics are shown in the following figures.



### LENS: January 2018 Daily Minimums

Date	Cedar Springs	Colchester	Kingsville
1-Jan	-20.5	-19	-23.9
2-Jan	-14.3	-16.6	-16.3
3-Jan	-14.2	-15.5	-16
4-Jan	-19	-18.2	-19.3
5-Jan	-19.6	-20.1	-20.9
6-Jan	-21.3	-23	-22.9
7-Jan	-20.9	-13.7	-16.3
8-Jan	-1.1	-2.6	-2.5
9-Jan	-3.5	-3.6	-4.7
10-Jan	-4.2	-2.9	-2.9
11-Jan	3.7	4.7	5.1
12-Jan	-7.4	-8.9	-9.3
13-Jan	-13.7	-12.6	-13.6
14-Jan	-14.2	-13.9	-14.8
15-Jan	-8.9	-9.3	-9.3
16-Jan	-13.6	-13.7	-13.8
17-Jan	-15.8	-14.8	-17.2
18-Jan	-9.7	-9.9	-10.1
19-Jan	-4	-6	-5.8
20-Jan	0.1	-1.2	-0.8
21-Jan	0.3	0.9	0.7
22-Jan	1.6	3	3.4
23-Jan	-2.4	-2.3	-2.2
24-Jan	-4.9	-4.5	-4.9
25-Jan	-5.9	-4.5	-5.1
26-Jan	-1.6	-1.5	-1.3
27-Jan	1.5	0.5	0.5
28-Jan	-1.4	-2.4	-2.2
29-Jan	-8.7	-9	-9.6
30-Jan	-11.5	-11.7	-11.9
31-Jan	-4.8	-5.7	-5.8



	Days with Icewine Temperatures
	Monthly Minimum



### LENS: January 2018 Daily Temperatures Compared to Normal

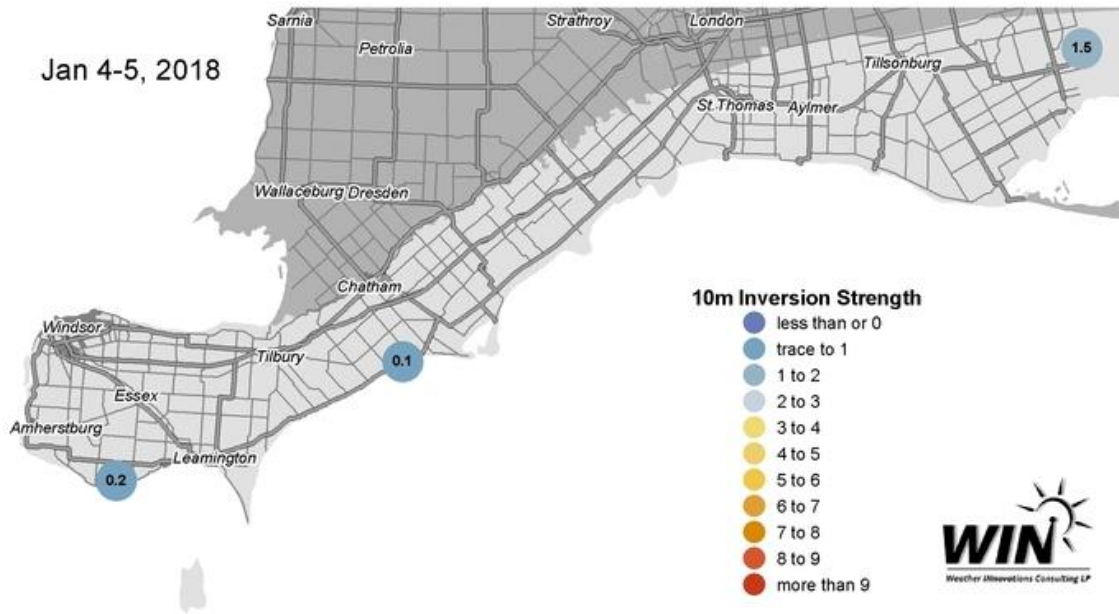
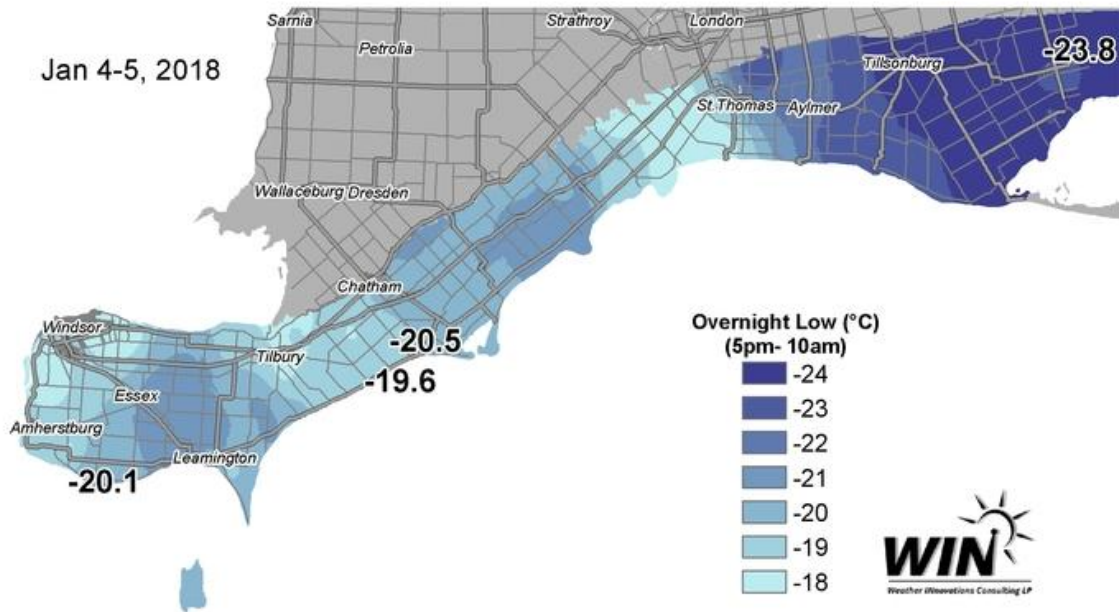
	Cedar Springs	Colchester	Kingsville	Normal (Kingsville)
<b>Days with Maximum Temperature:</b>				
<= 0 °C	17	16	17	16.6
> 0 °C	14	15	14	14.5
> 10 °C	0	1	1	0.4
> 20 °C	0	0	0	0
> 30 °C	0	0	0	0
> 35 °C	0	0	0	0
<b>Days with Minimum Temperature:</b>				
> 0 °C	5	4	4	2
<= 2 °C	30	29	29	30.4
<= 0 °C	26	27	27	29
<= -2 °C	23	25	25	25
<= -10 °C	12	12	13	11.6
<= -20 °C	3	2	3	0.8
<= -30 °C	0	0	0	0





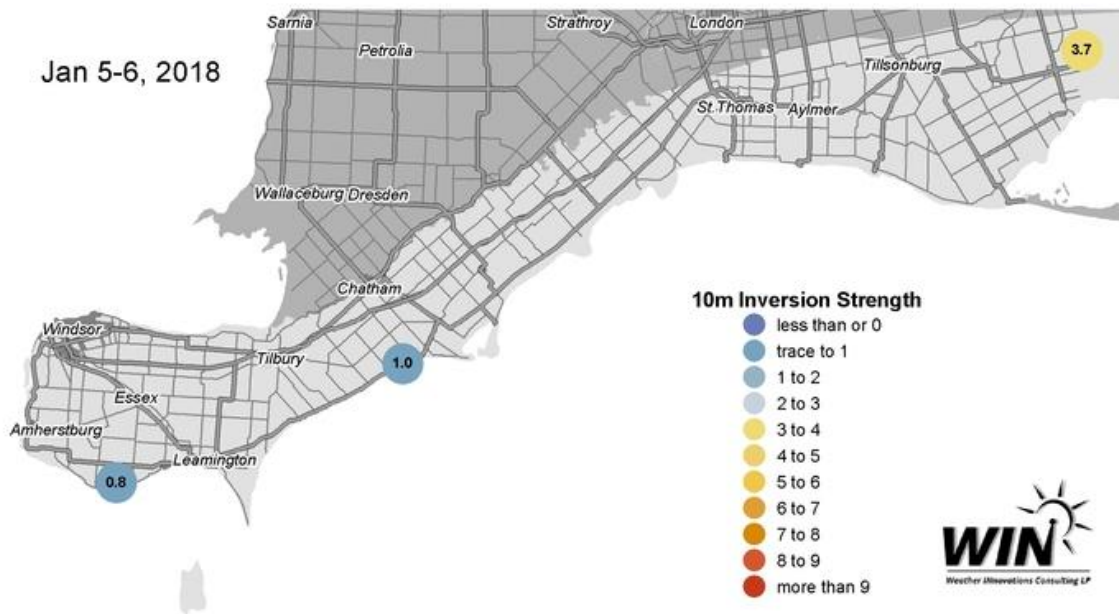
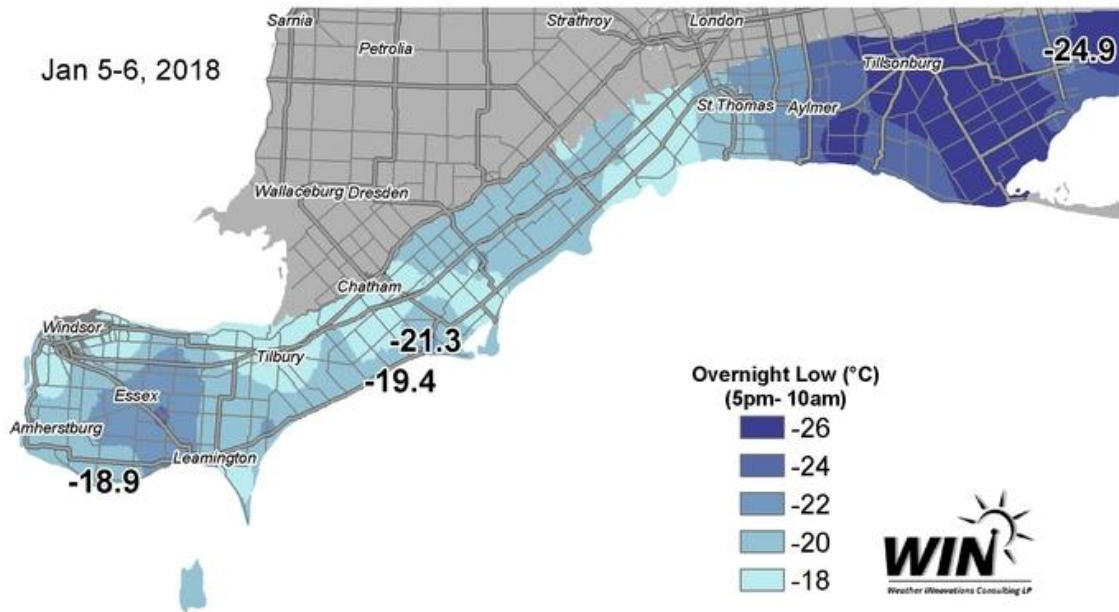
## Inversion Strength

The following four figures show the coldest January nights: January 4-5, and January 5-6. Note that both nights had a weak inversion at some locations.





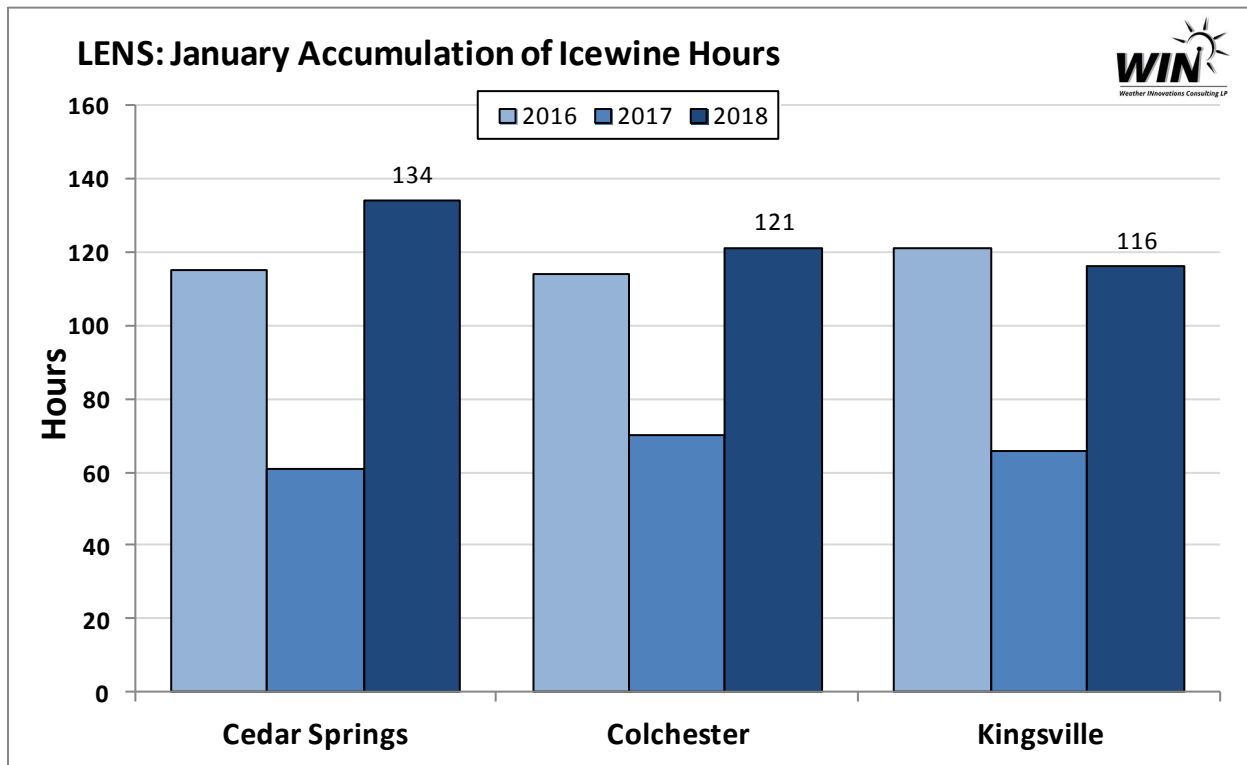
Weather INnovations Consulting LP PO Box 23005, Chatham, ON, N7L 0B1

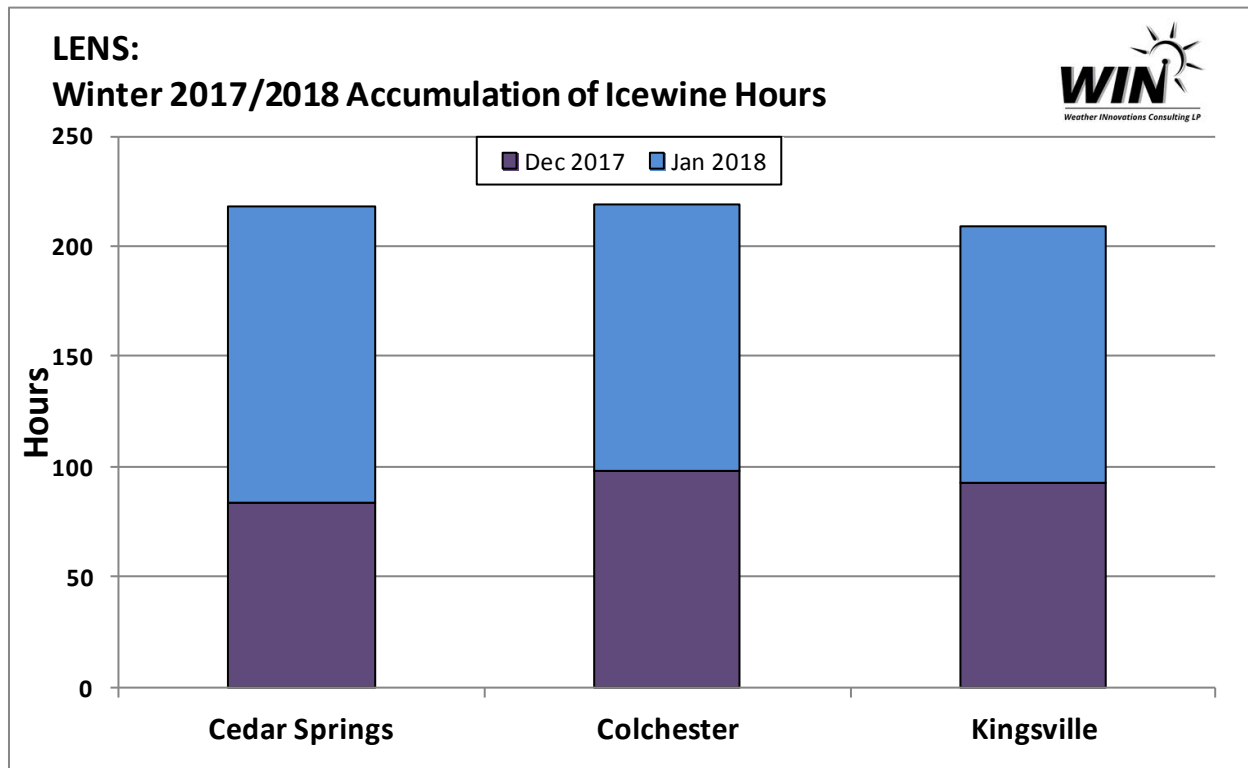




## Icewine Hours Analysis

As seen in the following two figures, all of the stations accumulated fewer number of icewine hours than in 2016 and 2015. A total of 134 icewine hours were recorded at the Cedar Springs station (compared to 61 hours in 2017). Colchester recorded 121 icewine hours (compared to 70 hours in 2017), and Kingsville recorded 116 icewine hours (compared to 66 hours in 2017). The 2017/2018 two month accumulations totaled between 209 and 219 icewine hours. The following figures illustrate how the accumulation of icewine hours differed across the appellation.





## Summary

January 2018 temperatures were above normal in the Lake Erie North Shore appellation. Average temperatures for the month were 0.3°C to 0.6°C below the 30-year normals. The coldest January temperature reached -23.9°C at the Kingsville station on January 1. January 2018 provided a suitable number of opportunities to harvest icewine grapes.