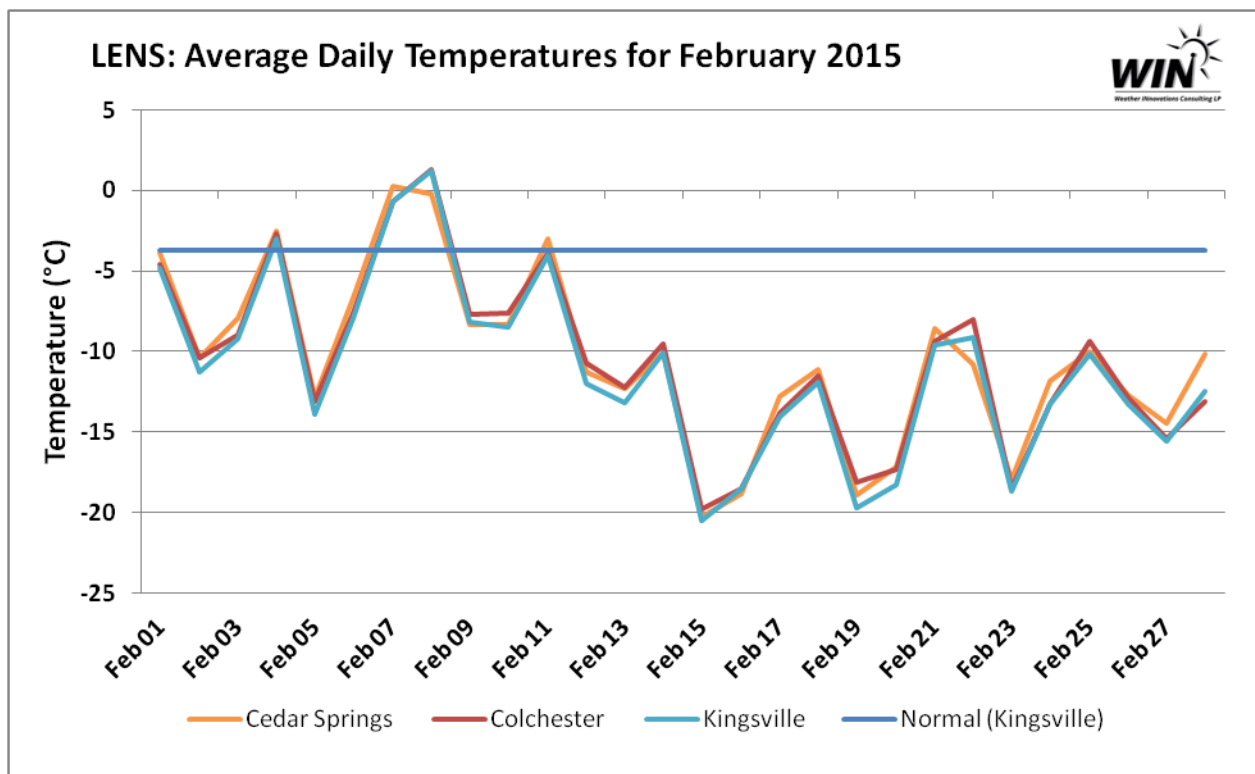




## February 2015

### Overview

The colder-normal January temperatures continued into February 2015. Average monthly temperatures were  $-10.5\text{ }^{\circ}\text{C}$  at Cedar Springs,  $-10.6\text{ }^{\circ}\text{C}$  at Colchester, and  $-11.1\text{ }^{\circ}\text{C}$  at Kingsville (compared to  $-8.0\text{ }^{\circ}\text{C}$  at Cedar Springs,  $-8.2\text{ }^{\circ}\text{C}$  at Colchester, and  $-7.8\text{ }^{\circ}\text{C}$  at Kingsville in 2014). Accordingly, the average monthly temperatures were  $6.8\text{ }^{\circ}\text{C}$  to  $7.4\text{ }^{\circ}\text{C}$  colder than normal for this appellation, compared to  $4.2\text{ }^{\circ}\text{C}$  below normal in 2014. These statistics are based on Environment Canada's 30-year normal for Kingsville. This summary illustrates February 2014 temperature and icewine hours. For this report, icewine hours are defined as instances when the average hourly temperature ranged between  $-8.0\text{ }^{\circ}\text{C}$  and  $-12.0\text{ }^{\circ}\text{C}$ , inclusive.



### Temperature Analysis

The February 2015 monthly minimum temperature for each site was  $-25.5\text{ }^{\circ}\text{C}$  at the Cedar Springs station,  $-25.8\text{ }^{\circ}\text{C}$  at the Colchester station, and  $-28.3\text{ }^{\circ}\text{C}$  at the Kingsville station (compared to  $-21.8\text{ }^{\circ}\text{C}$ ,  $-26.1\text{ }^{\circ}\text{C}$ , and  $-24.0\text{ }^{\circ}\text{C}$ , respectively, in 2014). These monthly minimum temperatures occurred on February 20. There were 20 days (compared to 21 days in 2014) when temperatures at one or more stations dipped into icewine temperature ranges. There were five days when temperatures remained below icewine temperature ranges for the day. These temperature characteristics are shown the following figures.



### LENS: February 2015 Daily Minimums

Date	Cedar Springs	Colchester	Kingsville
1-Feb	-6.3	-9	-8.7
2-Feb	-15	-14.9	-16.8
3-Feb	-13.7	-14.5	-14.7
4-Feb	-8.8	-8.9	-8.3
5-Feb	-18.2	-20.3	-23.3
6-Feb	-11.1	-13.4	-13.9
7-Feb	-2.3	-4.9	-4.3
8-Feb	-7	-6	-6.4
9-Feb	-10.1	-9.5	-10.2
10-Feb	-11.9	-9.5	-11.3
11-Feb	-6.1	-7.3	-7.6
12-Feb	-16.6	-17.3	-20.6
13-Feb	-20.2	-19.9	-21.5
14-Feb	-19.2	-18.2	-18.8
15-Feb	-23.5	-23.2	-24.2
16-Feb	-25.4	-24.1	-24.4
17-Feb	-22.3	-24.2	-23.8
18-Feb	-15.5	-16.3	-16.5
19-Feb	-24.3	-22.3	-27.7
20-Feb	-25.5	-25.8	-28.3
21-Feb	-16.3	-17	-19.2
22-Feb	-17.4	-16	-18.9
23-Feb	-23.2	-23	-25.9
24-Feb	-17.2	-21	-20.3
25-Feb	-13.8	-14.1	-14.2
26-Feb	-17.1	-19.9	-19.5
27-Feb	-21.2	-25.2	-24.3
28-Feb	-18.1	-21.4	-19.4



	Days with Ice Wine Temperatures
	Monthly Minimum



### LENS: February 2015 Daily Temperatures Compared to Normal

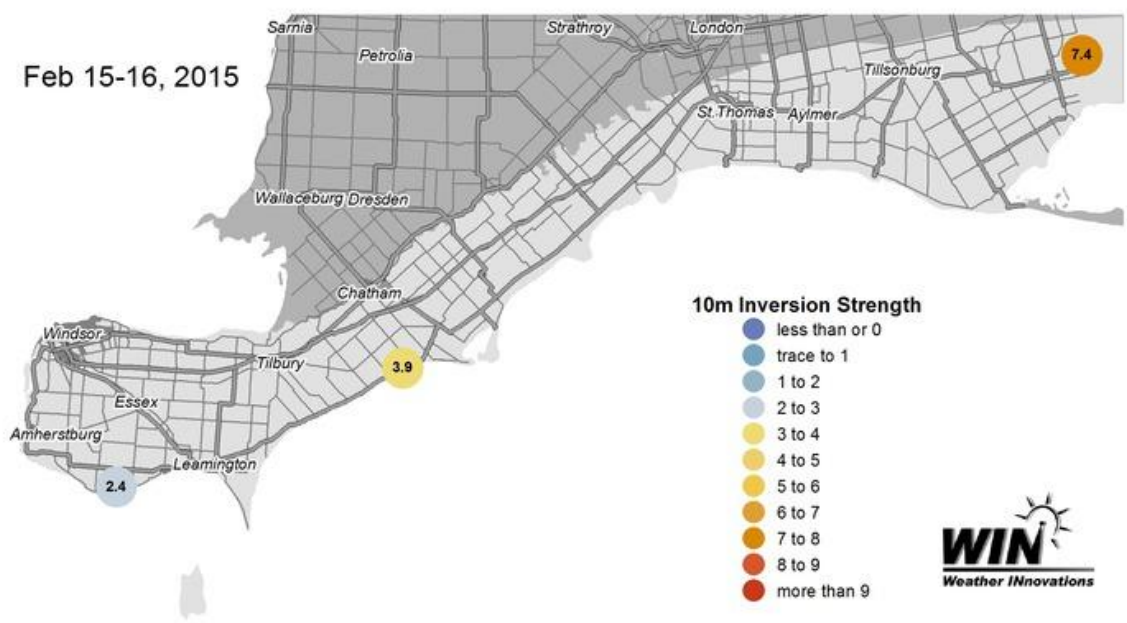
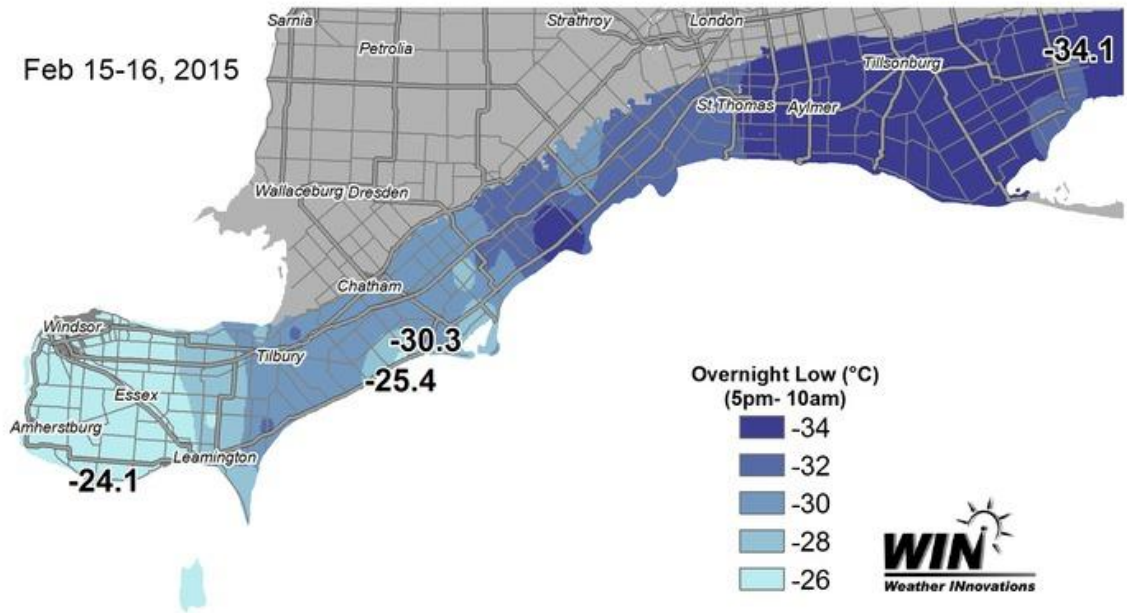
	Cedar Springs	Colchester	Kingsville	Normal (Kingsville)
<b>Days with Maximum Temperature:</b>				
<= 0 °C	24	25	25	13
> 0 °C	4	3	3	15.3
> 10 °C	0	0	0	0.6
> 20 °C	0	0	0	0
> 30 °C	0	0	0	0
> 35 °C	0	0	0	0
<b>Days with Minimum Temperature:</b>				
> 0 °C	0	0	0	2.9
<= 2 °C	28	28	28	27.6
<= 0 °C	28	28	28	25.4
<= -2 °C	28	28	28	20.2
<= -10 °C	23	21	23	9.5
<= -20 °C	8	10	11	0.5
<= -30 °C	0	0	0	0





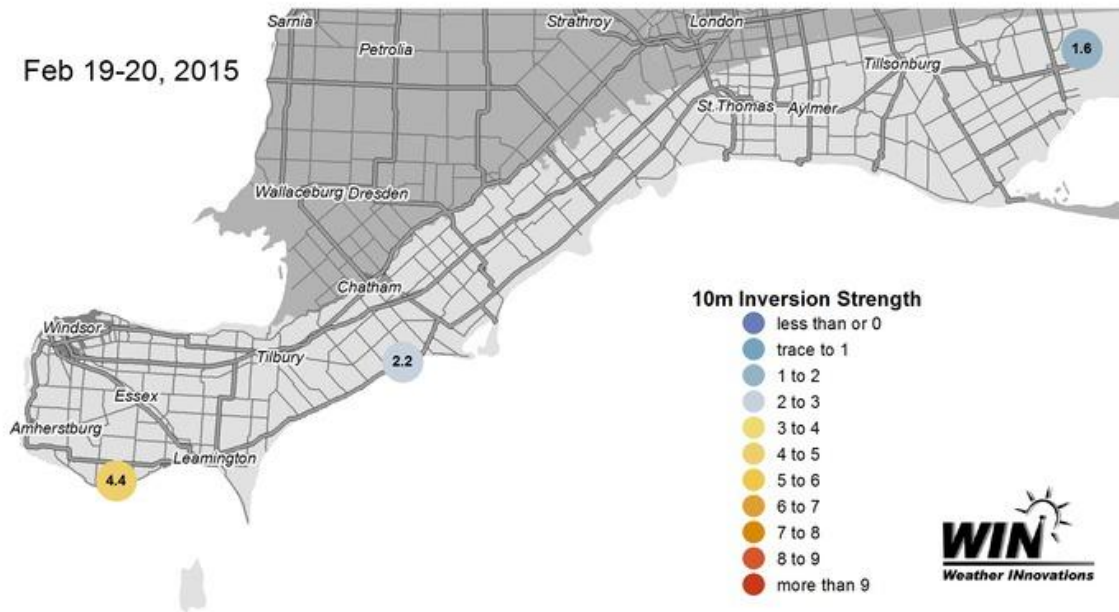
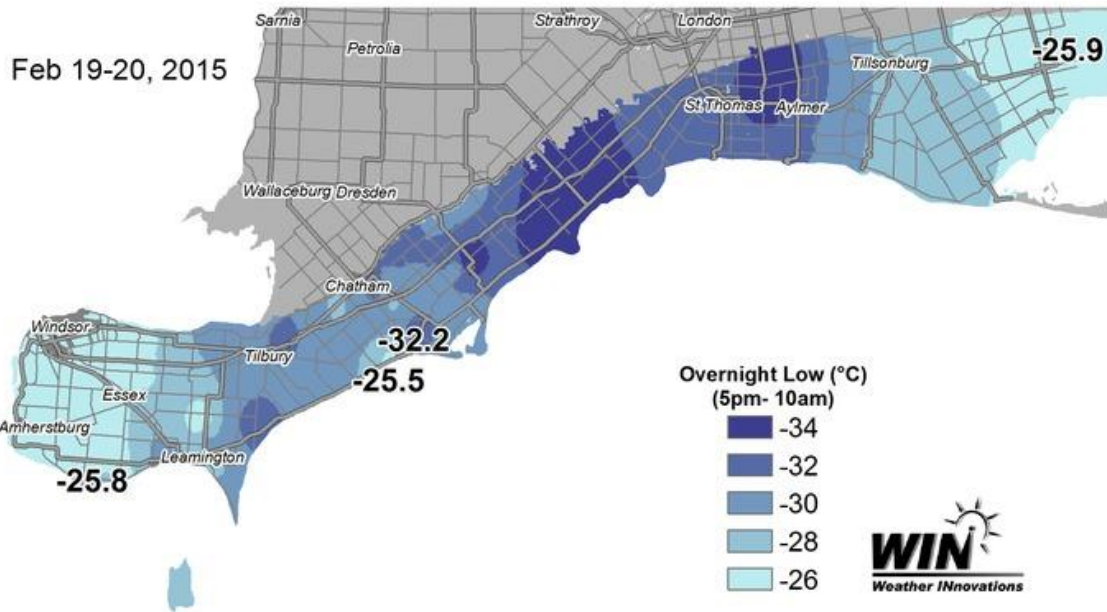
### Inversion Strength

The following 4 figures show the two coldest February nights: February 15-16 and 19-20. Note that the locations that experienced the lowest temperatures also typically had the strongest 10 m inversion strength.





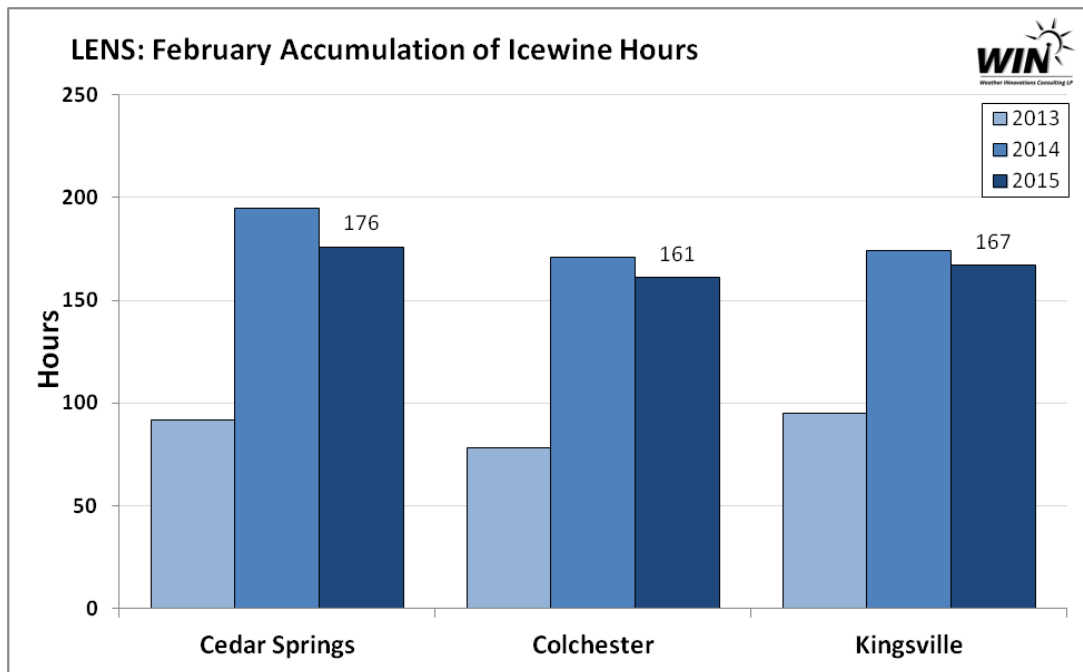
Weather INnovations Consulting LP PO Box 23005, Chatham, ON, N7L 0B1

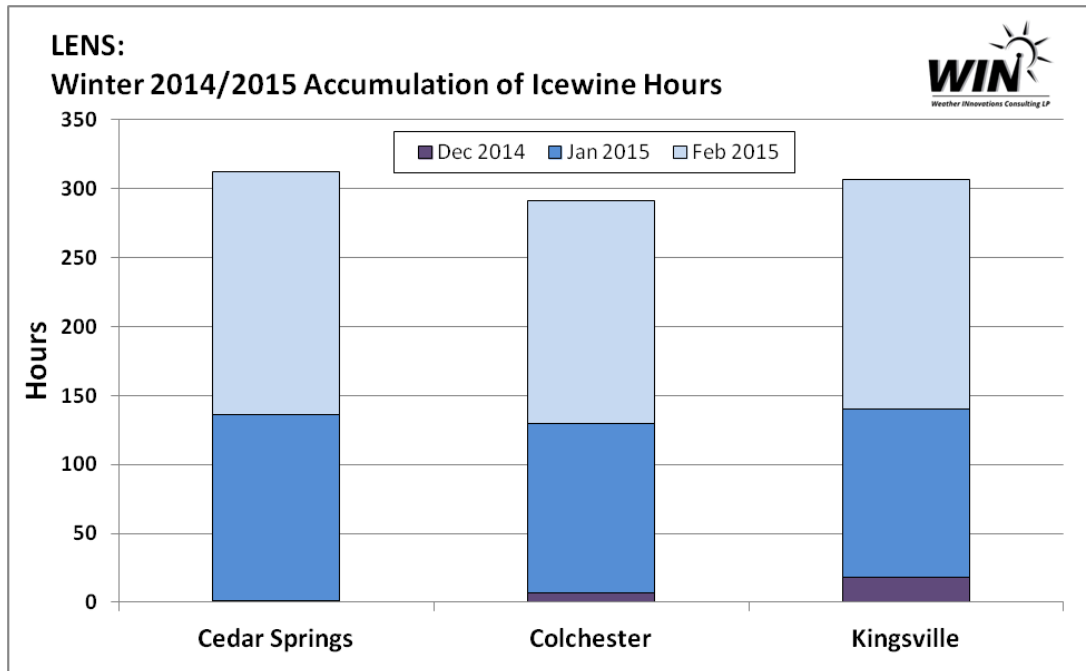




## Icewine Hours Analysis

Icewine hours continued to accumulate in February 2015 following the high accumulation of January. As seen in the following figures, each of the stations accumulated slightly fewer icewine hours than February 2014, but significantly more icewine hours than 2013. Over the month, Cedar Springs recorded 176 icewine hours, Colchester recorded 161 icewine hours, and Kingsville recorded 167 icewine hours (compared to 194 hours, 171 hours, and 174 hours, respectively, in 2014). The total accumulated icewine hours for winter 2014/2015 ranged between 291 hours and 312 hours (compared to 425 hours to 449 hours over the previous winter). The following figures illustrate icewine hours variability across the appellation.





## Summary

February 2015 temperatures were significantly below normal in the Lake Erie North Shore appellation. Average temperatures for the month were 6.8 °C to 7.4 °C below the 30-year normals. The coldest event took place on February 20 with temperatures reaching -28.3 °C at Kingsville.