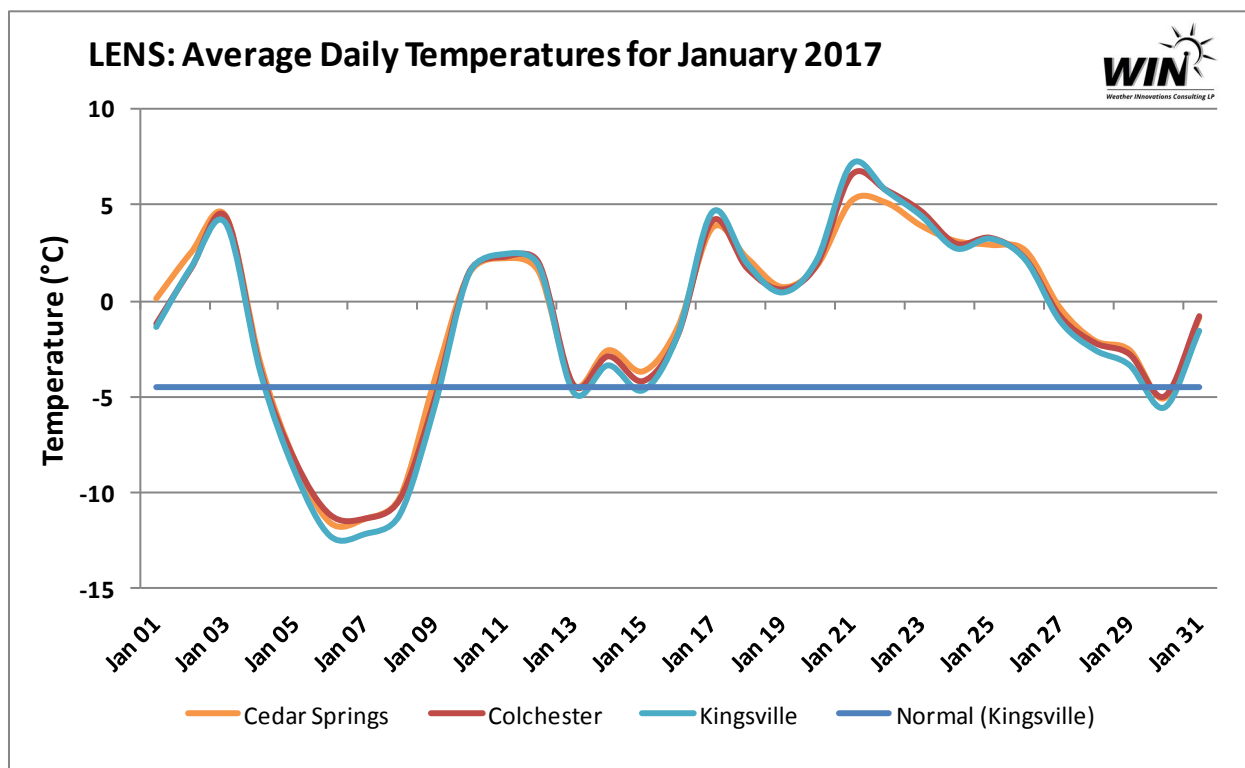




January 2017

Overview

Following a warm December, January continued with above normal temperatures. Average monthly temperatures were -0.9°C at Cedar Springs, -1.0°C at Colchester, and -1.3°C at Kingsville (compared to -2.2°C , -2.8°C , and -3.0°C , respectively, in 2016). Accordingly, the average monthly temperatures were 3.2°C to 3.6°C above normal for Lake Erie North Shore, compared to 1.5°C to 2.3°C below normal in 2016. These statistics are based on Environment Canada's 30-year normals for Kingsville. This summary illustrates minimum January 2017 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°C and -12.0°C , inclusive.



Temperature Analysis

The January 2017 monthly minimum temperature for each site was -15.9°C at the Cedar Springs station, -14.9°C at the Colchester station, and -15.8°C at the Kingsville station (compared to -13.1°C , -13.5°C , and -13.3°C , respectively, in 2016). These minimum temperatures occurred between January 6 and January 7. There were 7 days, compared to 13 days in January 2016, when temperatures at one or more stations dipped into icewine temperature ranges. These temperature characteristics are shown in the following figures.



LENS: January 2017 Daily Minimums

| Date | Cedar Springs | Colchester | Kingsville |
|--------|---------------|------------|------------|
| 1-Jan | -3.2 | -5.4 | -5.3 |
| 2-Jan | 1.1 | -1.6 | -1.5 |
| 3-Jan | 3.1 | 2.5 | 2.3 |
| 4-Jan | -7.2 | -7 | -7.4 |
| 5-Jan | -11.4 | -10.9 | -12.4 |
| 6-Jan | -15.9 | -13.6 | -15.1 |
| 7-Jan | -14.3 | -14.9 | -15.8 |
| 8-Jan | -12.6 | -13.3 | -14 |
| 9-Jan | -8.6 | -9.3 | -9.5 |
| 10-Jan | -1.3 | -2.7 | -2.9 |
| 11-Jan | -0.3 | -1 | -1.2 |
| 12-Jan | -1.8 | -1.5 | -1.8 |
| 13-Jan | -6.5 | -6 | -6.1 |
| 14-Jan | -5.4 | -5.3 | -5.6 |
| 15-Jan | -7.4 | -8.4 | -8.8 |
| 16-Jan | -5.2 | -7.3 | -7.5 |
| 17-Jan | 0.4 | 0.4 | 0 |
| 18-Jan | 1.1 | 0.8 | 0.6 |
| 19-Jan | 0 | -0.7 | -0.6 |
| 20-Jan | -0.3 | -0.6 | -0.7 |
| 21-Jan | 1.5 | 3.3 | 2.5 |
| 22-Jan | 2.8 | 2.6 | 2.6 |
| 23-Jan | 2.6 | 3.6 | 3 |
| 24-Jan | 2 | 1.2 | 0.8 |
| 25-Jan | 1.1 | 1.5 | 0.3 |
| 26-Jan | 0.9 | 0.6 | 0 |
| 27-Jan | -2.5 | -2.9 | -3.3 |
| 28-Jan | -3 | -3 | -3.4 |
| 29-Jan | -4.2 | -4 | -4.6 |
| 30-Jan | -9 | -9.7 | -10.9 |
| 31-Jan | -3.1 | -3.5 | -4.1 |



| | |
|--|--------------------------------|
| | Days with Icewine Temperatures |
| | Monthly Minimum |



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LENS: January 2017 Daily Temperatures Compared to Normal

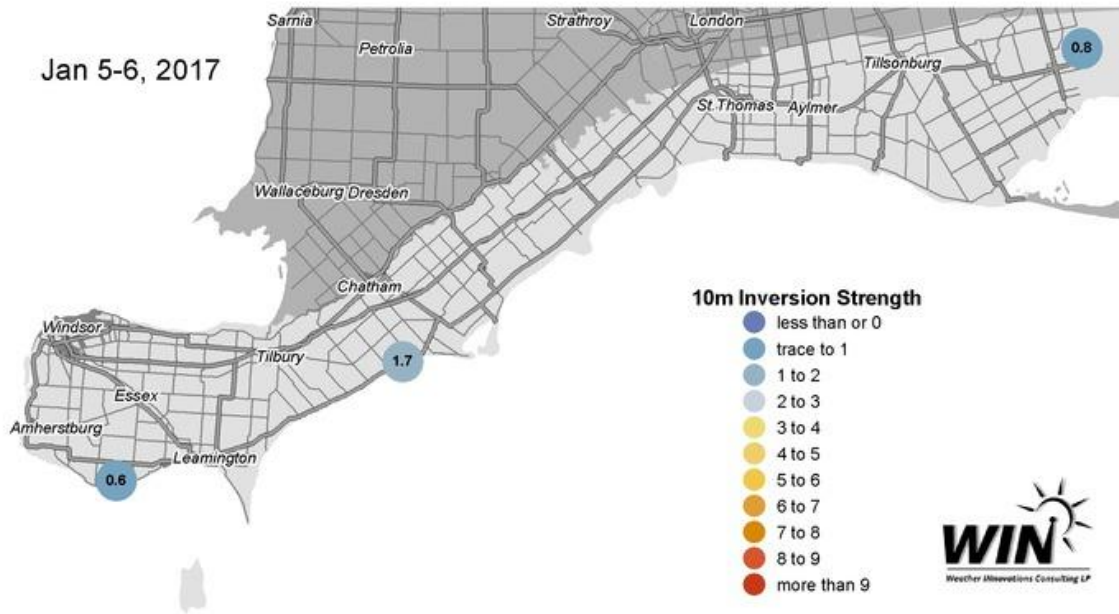
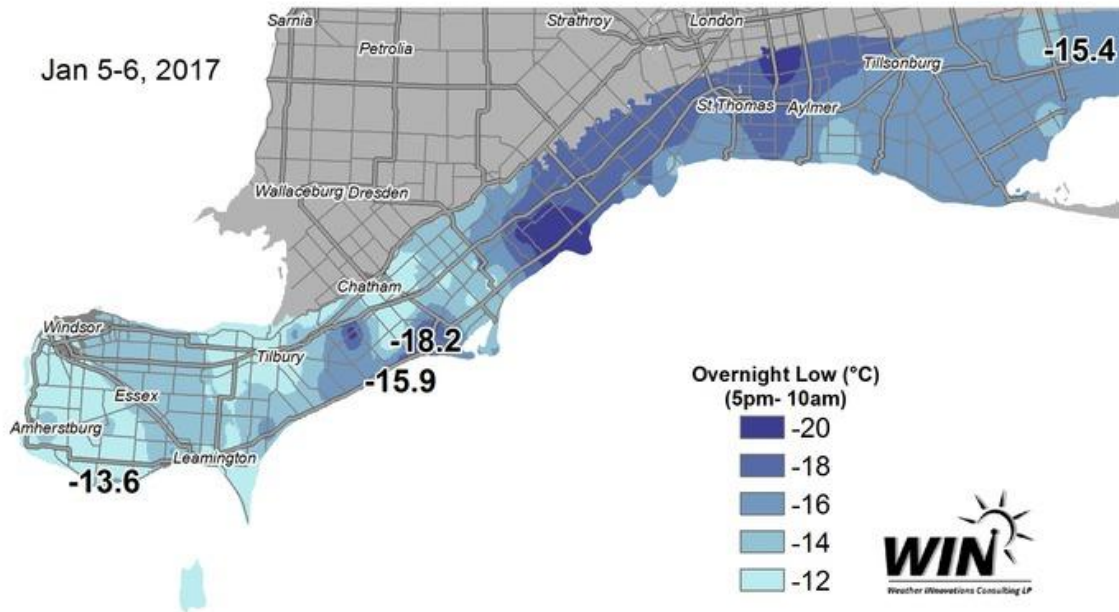


| | Cedar Springs | Colchester | Kingsville | Normal (Kingsville) |
|---------------------------------------|---------------|------------|------------|---------------------|
| Days with Maximum Temperature: | | | | |
| <= 0 °C | 11 | 11 | 11 | 16.6 |
| > 0 °C | 20 | 20 | 20 | 14.5 |
| > 10 °C | 1 | 0 | 2 | 0.4 |
| > 20 °C | 0 | 0 | 0 | 0 |
| > 30 °C | 0 | 0 | 0 | 0 |
| > 35 °C | 0 | 0 | 0 | 0 |
| Days with Minimum Temperature: | | | | |
| > 0 °C | 10 | 9 | 7 | 2 |
| <= 2 °C | 28 | 27 | 27 | 30.4 |
| <= 0 °C | 21 | 22 | 24 | 29 |
| <= -2 °C | 16 | 17 | 17 | 25 |
| <= -10 °C | 4 | 4 | 5 | 11.6 |
| <= -20 °C | 0 | 0 | 0 | 0.8 |
| <= -30 °C | 0 | 0 | 0 | 0 |



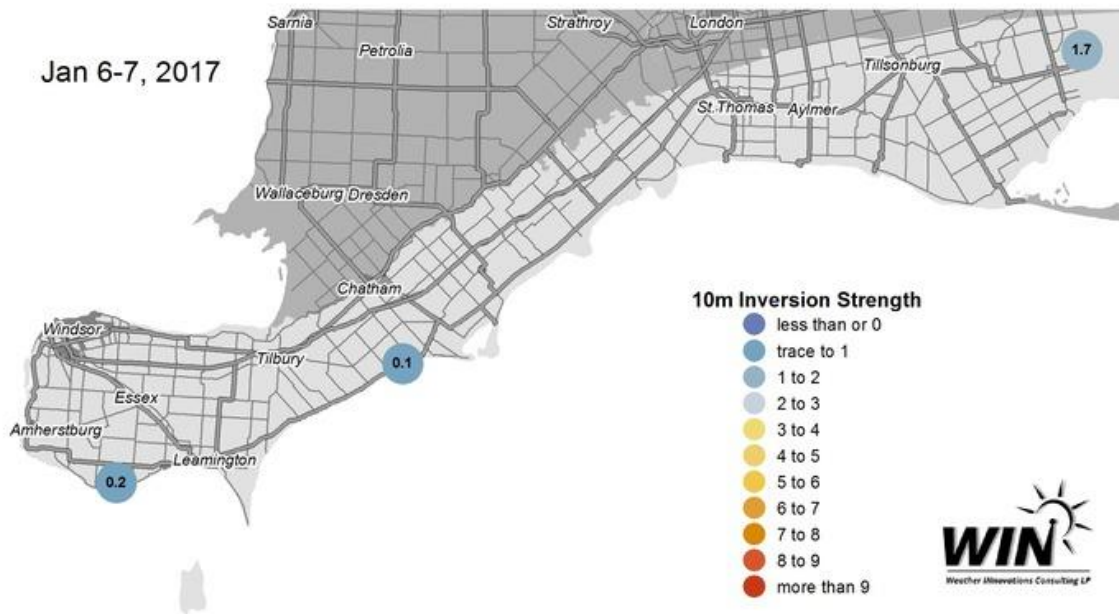
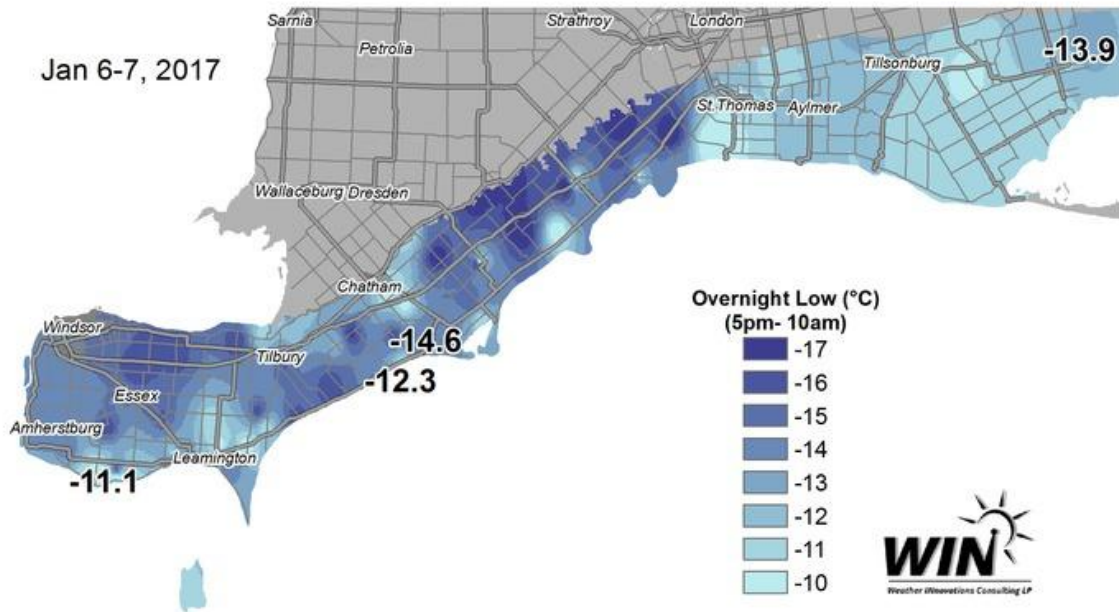
Inversion Strength

The following four figures show the coldest January nights: January 5-6, and January 6-7. Note that both nights had a weak inversion at some locations.





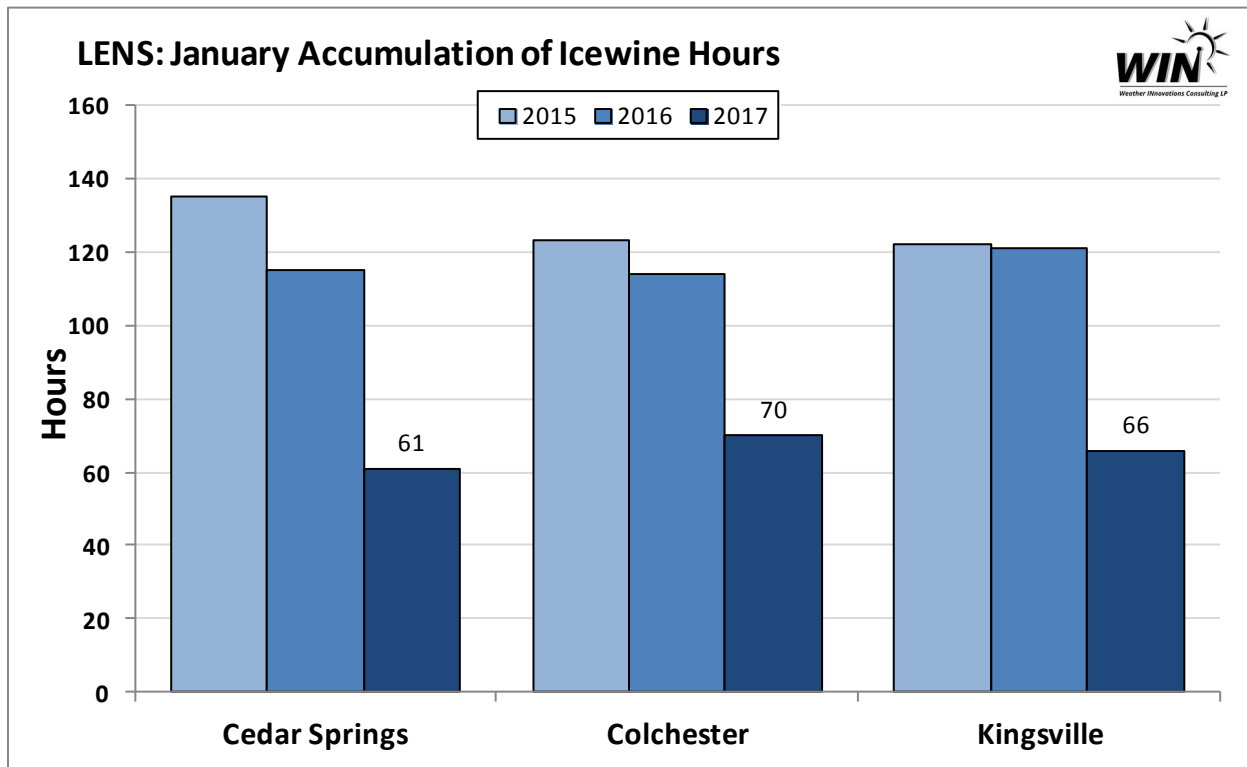
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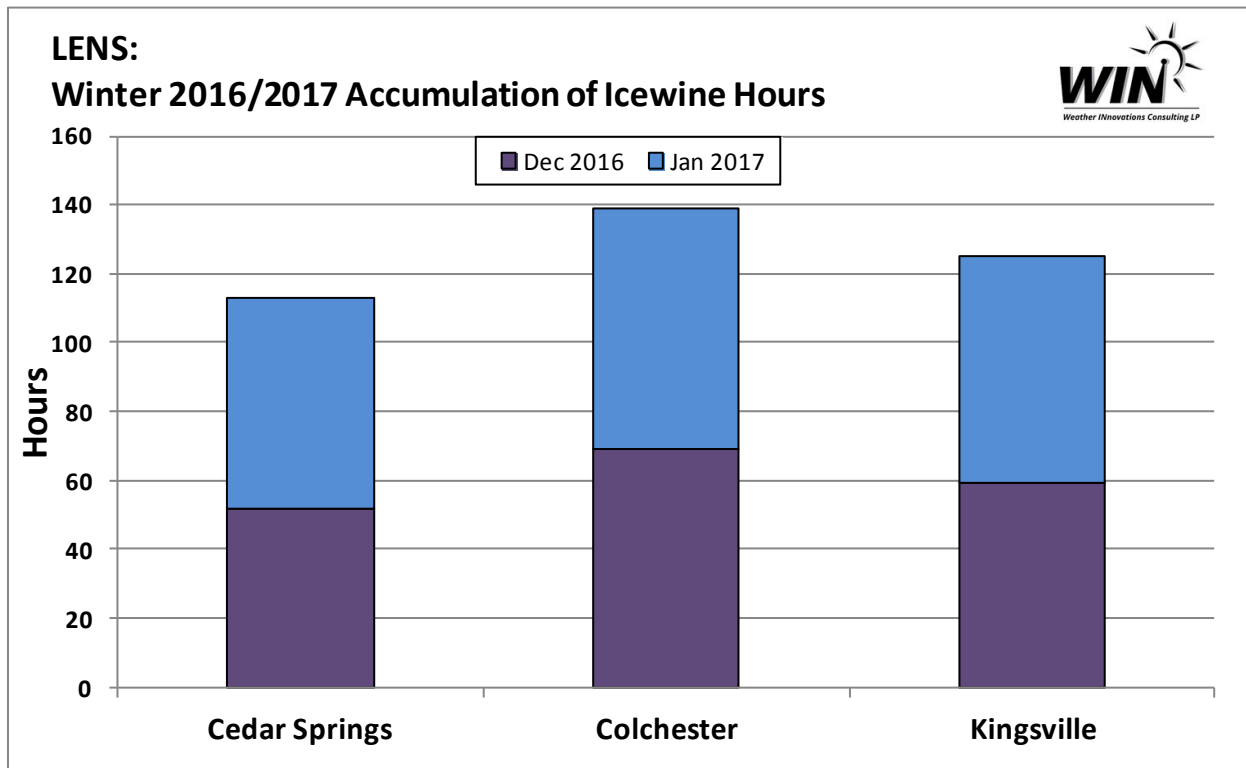




Icewine Hours Analysis

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 61 icewine hours were recorded at the Cedar Springs station (compared to 115 hours in 2016). Colchester recorded 70 icewine hours (compared to 114 hours in 2016), and Kingsville recorded 66 icewine hours (compared to 121 hours in 2016). The 2016/2017 two month accumulations totaled between 113 and 139 icewine hours. The following figures illustrate how the accumulation of icewine hours differed across the appellation.





Summary

January 2017 temperatures were above normal in the Lake Erie North Shore appellation. Average temperatures for the month were 3.2°C to 3.6°C above the 30-year normals. The coldest January temperature reached -15.9°C at the Cedar Springs station on January 6. January 2017 provided a suitable number of opportunities to harvest icewine grapes.