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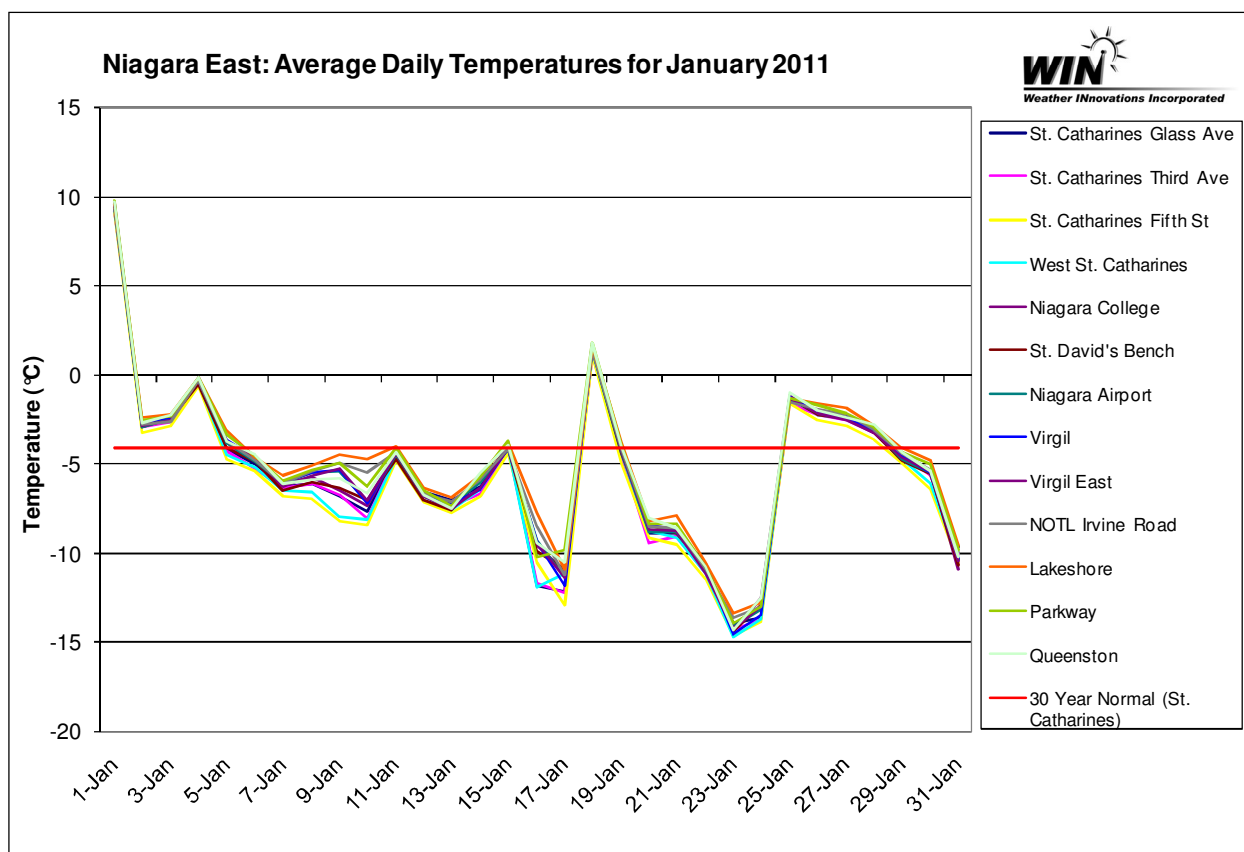
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# January 2011: Temperature & Icewine Hours Summary

Niagara Peninsula

WIN Staff  
February 8, 2011







## TEMPERATURE ANALYSIS

The monthly minimum temperatures for each site in January 2011 ranged from  $-19.3^{\circ}\text{C}$  at the NOTL Irvine Road station to  $-28.7^{\circ}\text{C}$  at the Grimsby station. These monthly minimum temperatures occurred during the overnight periods on the 16<sup>th</sup>-17<sup>th</sup> and 23<sup>rd</sup>-24<sup>th</sup> of January. Note that there was only 1 daily minimum temperature for each station that remained above  $0^{\circ}\text{C}$ , occurring on the first day of January. There were 23 days (compared to 16 days in January 2010) when temperatures, at one or more stations, dipped into icewine temperature ranges. This is shown in the following two figures.

## Niagara West: January 2011 Daily Minimums

| Date   | Winona | Grimsby | West Lincoln | Lincoln Fly Road | Beamsville | Lincoln Hwy 8 | Lincoln Lakeshore | Vineland Cherry Ave. | Vineland Escarpment | Jordan Escarpment | Jordan Hwy 8 | Jordan Harbour | Rockway |
|--------|--------|---------|--------------|------------------|------------|---------------|-------------------|----------------------|---------------------|-------------------|--------------|----------------|---------|
| 1-Jan  | 2.6    | 1.5     | 1.3          | 1.5              | 2.3        | 2.3           | 3                 | 2.7                  | 2.1                 | 1.9               | 2.3          | 2.5            | 2.1     |
| 2-Jan  | -5.3   | -6.5    | -6.3         | -6.5             | -5.6       | -5.8          | -5.3              | -5.3                 | -5.8                | -6                | -5.8         | -5.6           | -5.6    |
| 3-Jan  | -5.9   | -7.2    | -7           | -7               | -6.2       | -6.4          | -5.6              | -5.5                 | -6.3                | -6.3              | -6.4         | -5.8           | -6      |
| 4-Jan  | -1.7   | -2.7    | -3           | -2.8             | -2         | -2.1          | -1.4              | -1.7                 | -2.2                | -2.2              | -2.1         | -1.8           | -2.1    |
| 5-Jan  | -8.4   | -9.9    | -10.1        | -9.5             | -8.5       | -8.6          | -7.8              | -7.8                 | -8.6                | -10.1             | -8.6         | -8.1           | -8.9    |
| 6-Jan  | -9     | -11.3   | -11.3        | -10.3            | -9         | -9.1          | -8.2              | -8.9                 | -9.5                | -10.7             | -9.1         | -8.8           | -9.5    |
| 7-Jan  | -9.5   | -10.3   | -9.8         | -9.6             | -9.4       | -10.3         | -8.1              | -8.8                 | -9.1                | -10.3             | -10.3        | -8.6           | -9.3    |
| 8-Jan  | -10.4  | -13.6   | -12.6        | -10.4            | -9.4       | -9.6          | -10.5             | -12.8                | -10.3               | -11.9             | -9.6         | -11.4          | -11.2   |
| 9-Jan  | -11.4  | -14.8   | -14.4        | -12.1            | -11        | -11.1         | -10.5             | -11.2                | -11.4               | -13.2             | -11.1        | -10.4          | -11.6   |
| 10-Jan | -11.4  | -14.9   | -15.3        | -13.1            | -11.8      | -11.1         | -11.5             | -11                  | -12.2               | -13.8             | -11.1        | -10.8          | -12     |
| 11-Jan | -5.5   | -8.2    | -6           | -6.1             | -5.2       | -5.3          | -4.9              | -5.1                 | -5.7                | -7.9              | -6.6         | -6.1           | -7.4    |
| 12-Jan | -8.3   | -9.7    | -9.4         | -9.3             | -8.4       | -8.3          | -8.1              | -8.5                 | -8.9                | -9.3              | -8.3         | -8.7           | -9.1    |
| 13-Jan | -9.4   | -10.4   | -10.6        | -10.3            | -9.5       | -9.5          | -8.7              | -9.1                 | -9.8                | -10               | -9.5         | -9.4           | -9.8    |
| 14-Jan | -9.6   | -13.1   | -13.5        | -11              | -11.7      | -9.8          | -10.3             | -13.8                | -11.6               | -14.4             | -9.8         | -10.3          | -12     |
| 15-Jan | -7.6   | -7.9    | -7.9         | -8.5             | -6.8       | -7            | -6.2              | -6.5                 | -6.7                | -7.4              | -7.3         | -6.6           | -6.8    |
| 16-Jan | -19.8  | -28.2   | -24.3        | -17.5            | -18.8      | -21.6         | -20.5             | -23.7                | -21                 | -24.7             | -16.8        | -21.5          | -20.4   |
| 17-Jan | -21    | -28.7   | -23.6        | -20              | -20.4      | -22           | -20.9             | -25.2                | -20.8               | -25.5             | -22          | -21.9          | -21     |
| 18-Jan | -7.3   | -4.1    | -3.2         | -2.6             | -2.2       | -2.6          | -5.5              | -4.9                 | -2.7                | -3.3              | -2.6         | -4.4           | -2.9    |
| 19-Jan | -11.1  | -13.1   | -12.6        | -12.2            | -11.5      | -11.5         | -10.5             | -11                  | -11.2               | -11.4             | -11.5        | -10.8          | -10.9   |
| 20-Jan | -12.9  | -16.4   | -15.1        | -13.3            | -12.4      | -12.2         | -15.8             | -14.7                | -13.3               | -15.4             | -12.2        | -13.5          | -13.7   |
| 21-Jan | -13.5  | -15     | -14.8        | -14.9            | -13.9      | -13.9         | -13.1             | -13                  | -13.8               | -14.3             | -13.9        | -13.5          | -14     |
| 22-Jan | -15.1  | -18.9   | -17.6        | -16.7            | -15.5      | -15.4         | -14.5             | -14.2                | -15.8               | -16.7             | -15          | -14.8          | -15.9   |
| 23-Jan | -18.8  | -23.8   | -22.2        | -19.7            | -19.9      | -18.4         | -18.6             | -20.6                | -20.8               | -24.2             | -22          | -18.9          | -20.9   |
| 24-Jan | -22    | -28.3   | -24.8        | -23              | -20.6      | -21.5         | -19.3             | -20.1                | -21.2               | -23.8             | -22.7        | -20.4          | -21.6   |
| 25-Jan | -8.2   | -8.8    | -8.5         | -8.6             | -7.8       | -8            | -8.4              | -8.8                 | -8                  | -7.8              | -8.6         | -8.7           | -8.4    |
| 26-Jan | -3     | -4.6    | -4.5         | -4.1             | -3.5       | -3.5          | -3.1              | -3.4                 | -3.6                | -3.8              | -3.1         | -3.3           | -3.7    |
| 27-Jan | -4.4   | -5.3    | -5.8         | -5.9             | -4.7       | -4.7          | -4.6              | -4.6                 | -5.4                | -6.1              | -5.3         | -5.1           | -5.7    |
| 28-Jan | -4.5   | -5.4    | -5.1         | -5.2             | -4.4       | -4.7          | -4                | -4.1                 | -4.6                | -4.8              | -4.2         | -4.4           | -4.6    |
| 29-Jan | -7     | -10.1   | -8.8         | -7.7             | -8.1       | -7.2          | -7                | -7.7                 | -8.1                | -9.1              | -7.9         | -6.9           | -8.3    |
| 30-Jan | -10.5  | -11.5   | -13          | -11.2            | -10.5      | -10.2         | -9                | -9.9                 | -10.7               | -10.6             | -9.6         | -10            | -9.9    |
| 31-Jan | -12.6  | -13.8   | -14.4        | -13.9            | -13.4      | -12.7         | -11.7             | -12.6                | -14                 | -13               | -12.5        | -12            | -13.7   |



Legend:

|   |                                 |
|---|---------------------------------|
|  | Days with Ice Wine Temperatures |
|  | Monthly Minimum                 |

## Niagara East: January 2011 Daily Minimums

| Date   | St. Catharines Glass Ave | St. Catharines Third Ave | West St. Catharines Fifth St | Niagara College | St. David's Bench | Niagara Airport | Virgil | NOTL Irvine Road | Lakeshore | Parkway | Queenston |       |       |
|--------|--------------------------|--------------------------|------------------------------|-----------------|-------------------|-----------------|--------|------------------|-----------|---------|-----------|-------|-------|
| 1-Jan  | 2.7                      | 2.6                      | 2.2                          | 2.3             | 2.8               | 2.7             | 2.7    | 3                | 2.8       | 2.8     | 3.1       | 3.2   | 3     |
| 2-Jan  | -5.1                     | -5.3                     | -5.6                         | -5.5            | -5.3              | -5.5            | -5.3   | -5.1             | -5.4      | -5.3    | -4.8      | -5    | -5.3  |
| 3-Jan  | -5.5                     | -5.5                     | -5.9                         | -5.8            | -5.3              | -5.5            | -5.5   | -5.4             | -5.6      | -5.5    | -5.3      | -5.3  | -5.4  |
| 4-Jan  | -1.7                     | -1.8                     | -1.8                         | -1.9            | -1.1              | -1.5            | -1.5   | -1.3             | -1.4      | -1.4    | -1.1      | -1.1  | -1.1  |
| 5-Jan  | -7.8                     | -8                       | -8.4                         | -8.5            | -7.8              | -7.6            | -7.6   | -7.4             | -7.6      | -7.4    | -7        | -7.4  | -7.4  |
| 6-Jan  | -8.6                     | -9                       | -9.5                         | -9.2            | -8.6              | -8.9            | -8.5   | -8.6             | -8.2      | -8      | -7.7      | -7.9  | -7.9  |
| 7-Jan  | -8.2                     | -8.6                     | -9.4                         | -9.9            | -9                | -9.5            | -9.6   | -9               | -9.3      | -8.4    | -8        | -9    | -8.8  |
| 8-Jan  | -12.1                    | -12.2                    | -11.7                        | -10.6           | -9.5              | -10.3           | -8.4   | -8.9             | -8.6      | -8.4    | -8.4      | -8.1  | -10.8 |
| 9-Jan  | -12.6                    | -13.2                    | -13.2                        | -12.6           | -11.2             | -10.2           | -9.4   | -9.5             | -7.7      | -6.3    | -5.3      | -5.8  | -9.7  |
| 10-Jan | -13                      | -12.7                    | -12.7                        | -12.5           | -10.7             | -10.4           | -11.3  | -10.9            | -10.7     | -10     | -7.8      | -10.8 | -10.3 |
| 11-Jan | -6.4                     | -6.6                     | -7                           | -6.7            | -5.8              | -6              | -5.9   | -5.7             | -5.6      | -5.4    | -4.9      | -5.3  | -5.8  |
| 12-Jan | -8.5                     | -8.8                     | -9.2                         | -8.8            | -8.9              | -9.2            | -9.2   | -9               | -9.2      | -9.2    | -8.8      | -8.9  | -8.9  |
| 13-Jan | -9.4                     | -9.7                     | -9.9                         | -9.7            | -10               | -10.4           | -10.2  | -9.7             | -10.1     | -9.9    | -9.5      | -9.7  | -10   |
| 14-Jan | -10.4                    | -12.7                    | -10.7                        | -10.6           | -11.1             | -9.7            | -10.8  | -11.5            | -11.8     | -9.5    | -8.8      | -10.6 | -9.1  |
| 15-Jan | -6.3                     | -6.3                     | -7.2                         | -6.7            | -6.3              | -6.5            | -6.4   | -6.4             | -6.3      | -6.7    | -6.6      | -6.1  | -6.1  |
| 16-Jan | -23.3                    | -23                      | -20.8                        | -21.1           | -18               | -20             | -18    | -19.3            | -21       | -16.5   | -11.1     | -18.7 | -17.2 |
| 17-Jan | -24.8                    | -25.1                    | -21.2                        | -22.5           | -20.3             | -19.8           | -20.3  | -22.6            | -21       | -18.3   | -17.2     | -18   | -18.8 |
| 18-Jan | -3.5                     | -5.3                     | -3                           | -2.7            | -2.2              | -2.4            | -2.3   | -2               | -2        | -2.8    | -2.5      | -2.5  | -1.8  |
| 19-Jan | -10.3                    | -10.3                    | -11                          | -10.4           | -10.4             | -10.6           | -10    | -10              | -10       | -9.7    | -7.6      | -9.3  | -9.9  |
| 20-Jan | -14.3                    | -17.2                    | -12.8                        | -12.8           | -12.4             | -11.2           | -13.7  | -12              | -13.3     | -12.8   | -13       | -12.4 | -11.4 |
| 21-Jan | -13.2                    | -13.5                    | -14                          | -14.1           | -13               | -13.3           | -13.6  | -13.3            | -13.5     | -13.2   | -12.2     | -12.6 | -13.2 |
| 22-Jan | -14.3                    | -14.9                    | -15.2                        | -15.5           | -14.3             | -14.3           | -15    | -14.6            | -15.3     | -14.8   | -14.8     | -15.3 | -14.8 |
| 23-Jan | -21.5                    | -22.1                    | -21                          | -22.2           | -21.6             | -20.7           | -21.9  | -23.4            | -22.9     | -19.3   | -18.6     | -22   | -21.6 |
| 24-Jan | -22.1                    | -21.5                    | -22                          | -22             | -18.7             | -21.4           | -22.9  | -23.7            | -19.9     | -19.2   | -20       | -20.3 | -19.9 |
| 25-Jan | -8.6                     | -8.8                     | -8.4                         | -8.1            | -4.9              | -5.2            | -8.4   | -8.2             | -7.9      | -8.6    | -8.2      | -7.9  | -5.2  |
| 26-Jan | -3.3                     | -3.6                     | -3.6                         | -3.4            | -3.3              | -3.7            | -3.3   | -3.2             | -3.5      | -3.4    | -3.1      | -3.1  | -3.3  |
| 27-Jan | -5.5                     | -5.9                     | -5.6                         | -4.9            | -4.4              | -5              | -4.9   | -5.2             | -5.3      | -4.7    | -4.9      | -4.8  | -5    |
| 28-Jan | -4.3                     | -4.5                     | -4.4                         | -4.3            | -4.2              | -4.4            | -4.2   | -4.1             | -4.2      | -4.2    | -4        | -4.1  | -4    |
| 29-Jan | -8.1                     | -8.2                     | -7.7                         | -7.4            | -7.1              | -6.7            | -7.8   | -7.1             | -7.5      | -6.7    | -6.5      | -7.2  | -6.9  |
| 30-Jan | -9.4                     | -9.6                     | -10.3                        | -10             | -10               | -10.6           | -10    | -9.8             | -9.9      | -9.4    | -9        | -9.3  | -10.5 |
| 31-Jan | -12                      | -12.3                    | -14                          | -14.9           | -18.6             | -17.5           | -14    | -14.6            | -14.5     | -12.4   | -11.6     | -12.6 | -16.8 |

Legend:

|   |                                 |
|---|---------------------------------|
|  | Days with Ice Wine Temperatures |
|  | Monthly Minimum                 |

## BUD HARDINESS

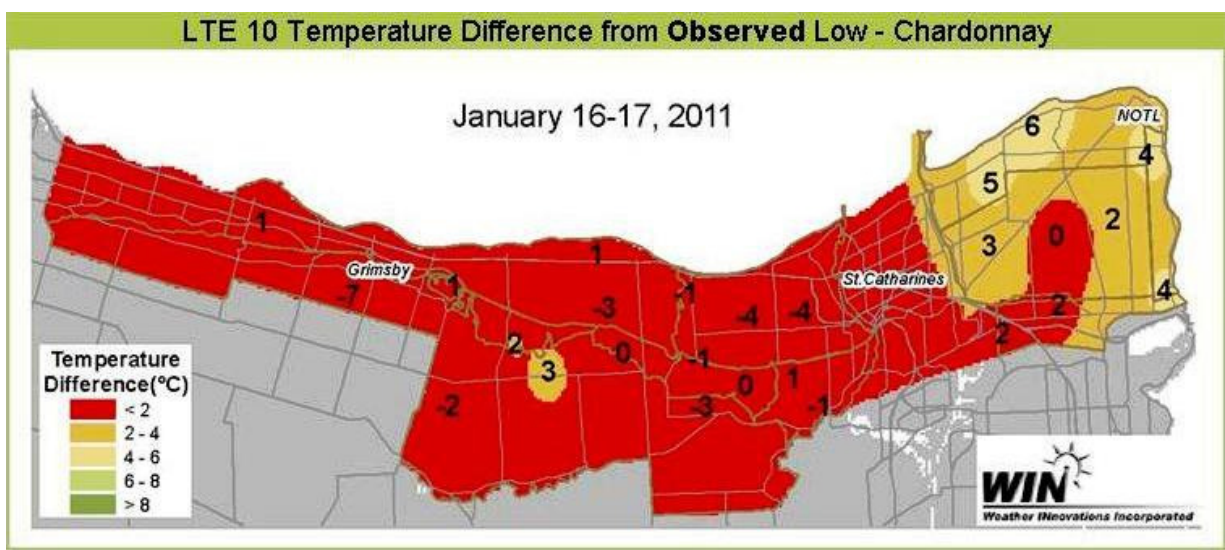
Temperatures fell below the estimated LTE10 values (the temperature at which 10% of primary buds would die) for Chardonnay and Cabernet Franc at a number of stations during the two critical January events. The following figures show the overnight lows during these two periods. The LTE10 map shows the temperature difference from the LTE10 value during that time. A positive number on the map indicates the number of degrees that the station remained above the LTE10 value; a negative number indicating a temperature is below the LTE10 value. A value of zero on the LTE10 map would indicate that a particular station reached the LTE10 value. Note that the overnight low map and the LTE10 map values are calculated from temperatures occurring between 6PM and 6AM. Therefore, lower temperatures occurring between 6AM and 6PM would not be illustrated in these maps. This explains the fact that all of the overnight lows are not identical to all of the monthly minimums.

During the 16<sup>th</sup>-17<sup>th</sup> event, St. Catharines 3<sup>rd</sup> Ave and Grimsby showed the greatest temperature difference (minus 6°C) from the LTE10 values for Cabernet Franc. Therefore, temperatures during this overnight period fell 6 degrees below the LTE10 values for these stations. In fact, these stations, along with Vineland Cherry Ave and Jordan Escarpment, actually reached the LTE90 values for Cabernet Franc. The St. Catharines Glass Ave and West Lincoln stations fell below the LTE50 value for Cabernet Franc.

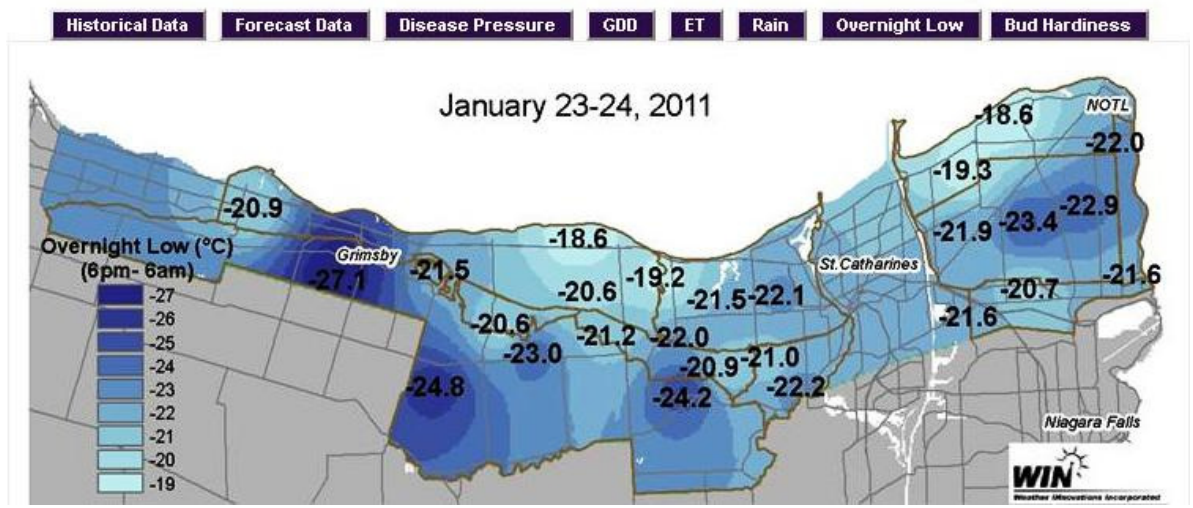
Grimsby, Jordan Hwy 8, Jordan Escarpment, West Lincoln, St. Catharines Glass Ave, St. Catharines Third Ave, Virgil, Virgil East and Parkway each fell below the LTE10 values for Cabernet Franc during the 23<sup>rd</sup>-24<sup>th</sup> event: 5 degrees below the LTE10 value at Grimsby and 1-2 degrees below for the remaining 8 stations. In fact, the Jordan Escarpment and West Lincoln stations fell below the LTE50 values, while the Grimsby station fell below the LTE90 value for Cabernet Franc.

### Niagara Peninsula - Overnight Low

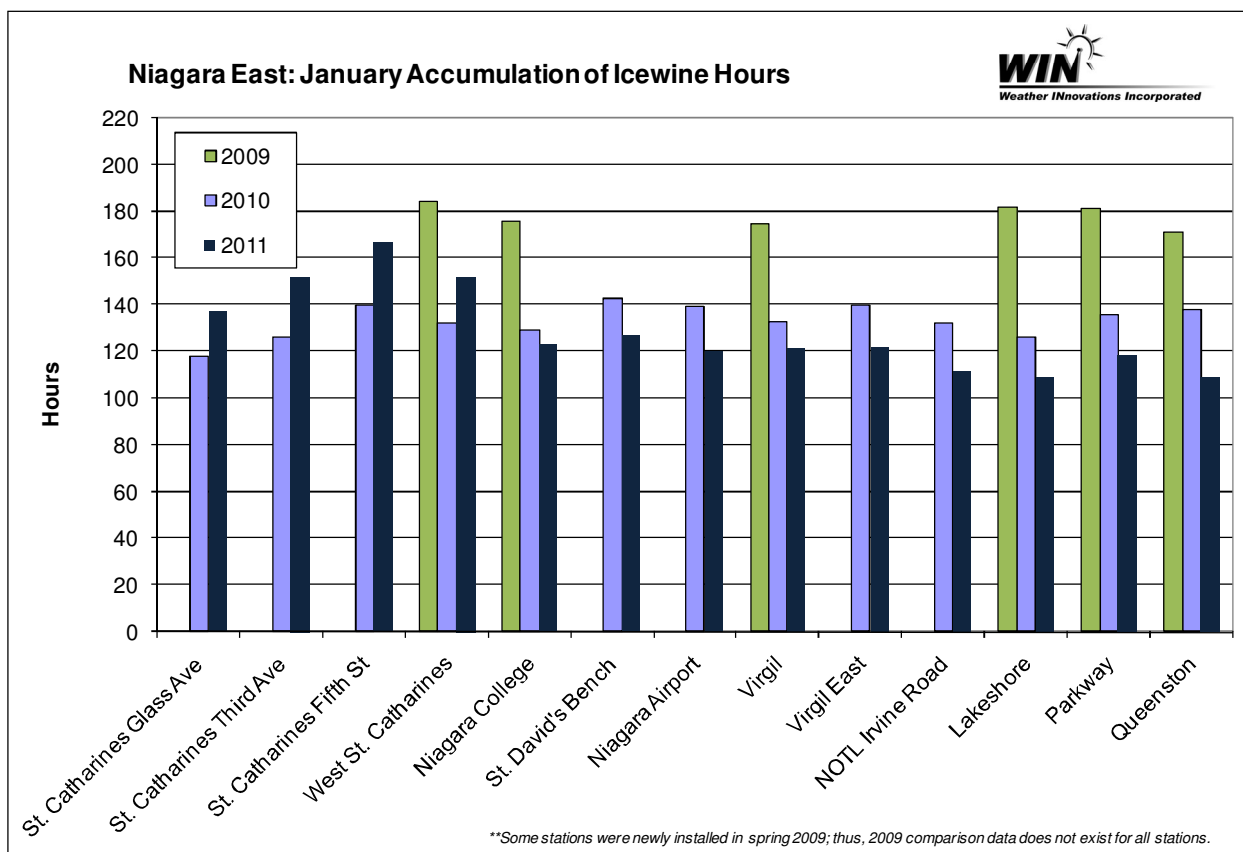
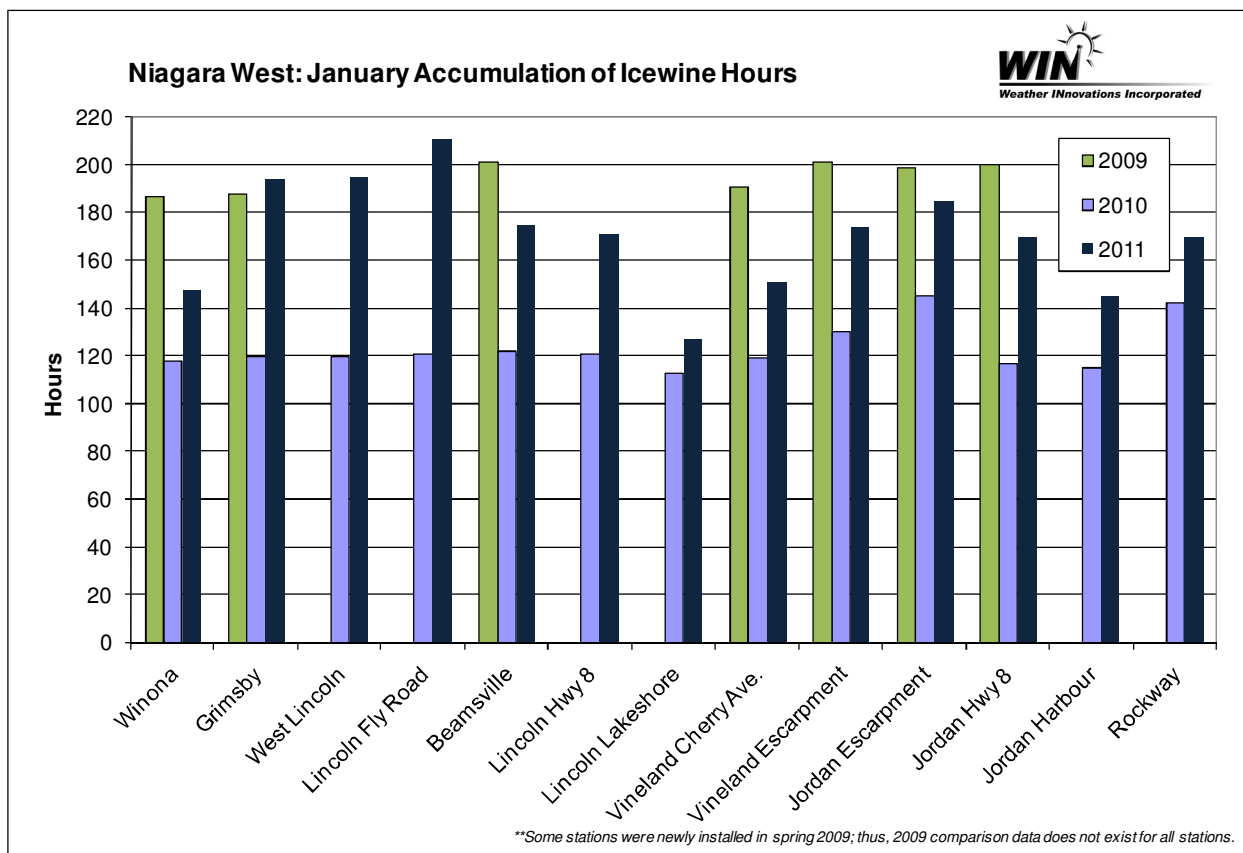


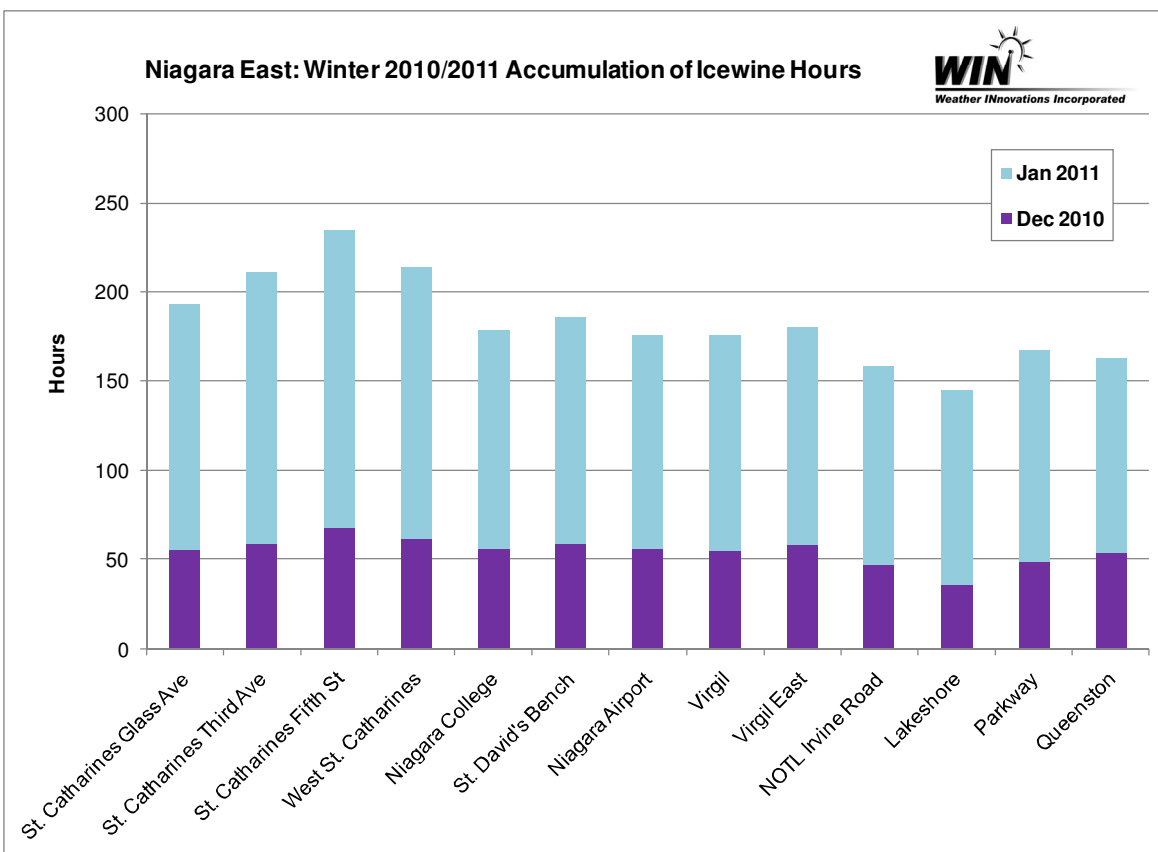
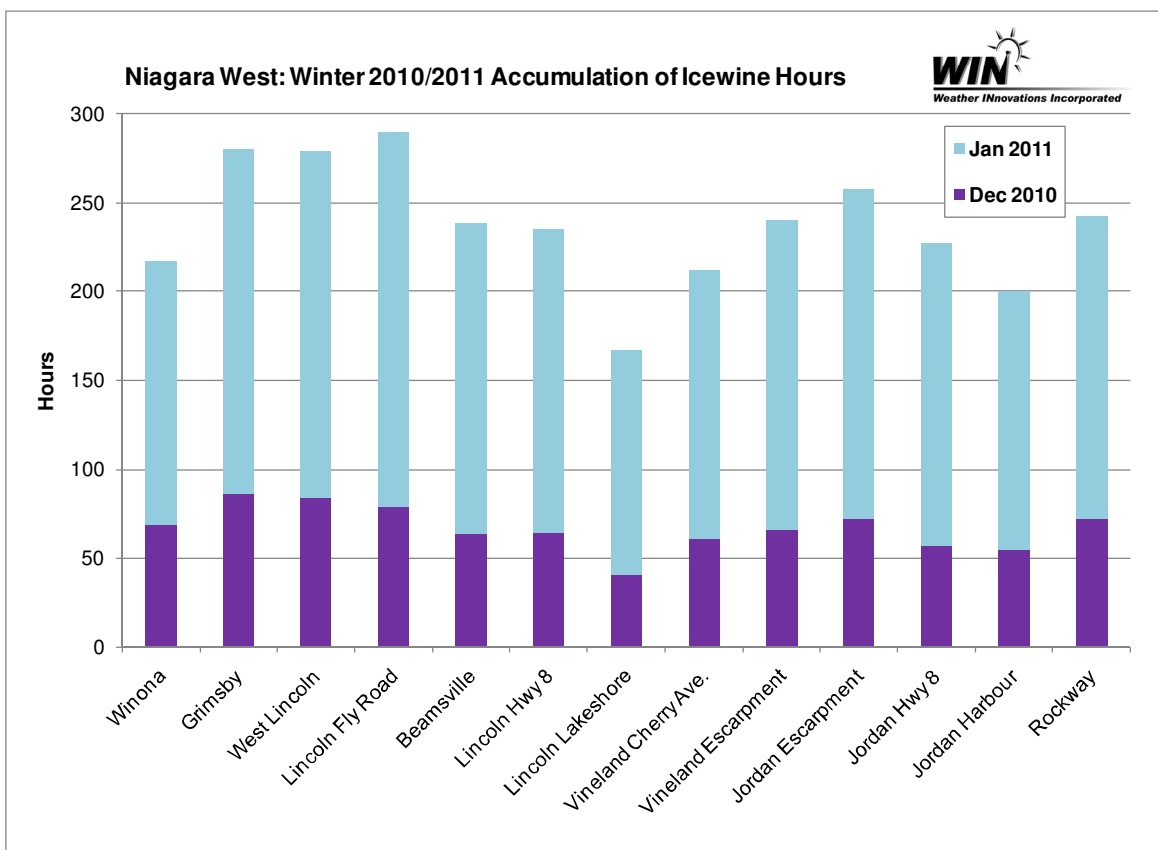


### Niagara Peninsula - Overnight Low

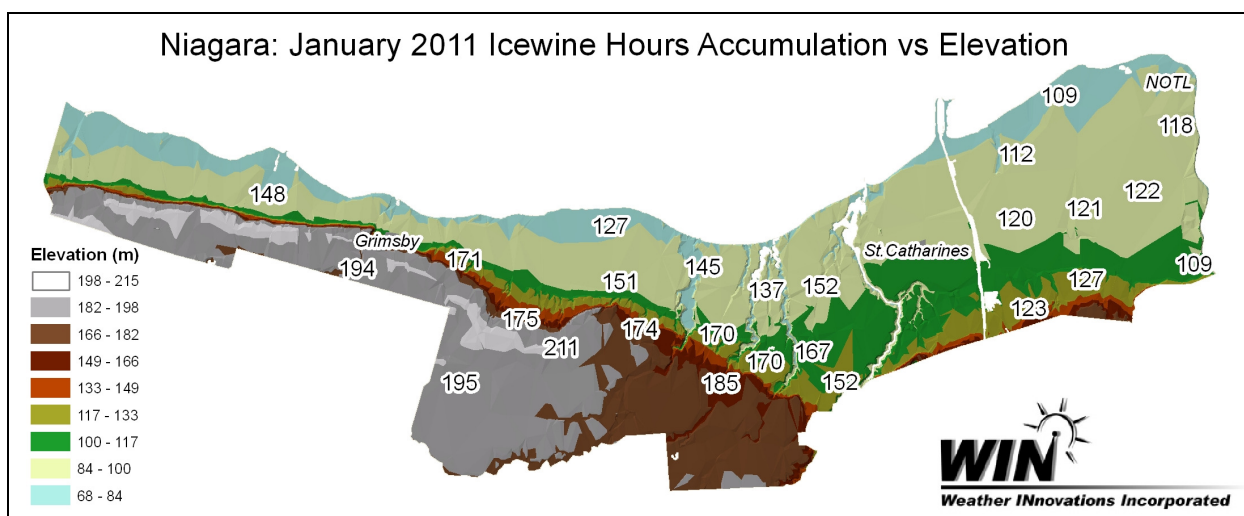
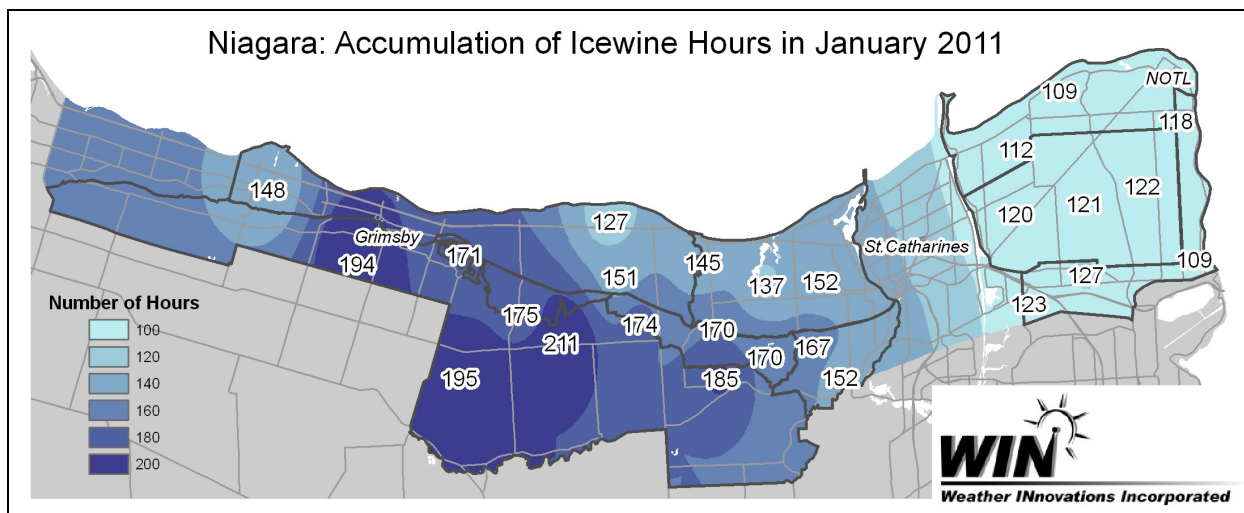








The following two figures illustrate how the accumulation of ice wine hours in January differed spatially across Niagara. The digital elevation model overlay clearly shows how elevation plays a significant role in temperature differences across Niagara.



## SUMMARY

January 2011 temperatures were below normal in the Niagara appellation; average temperatures for the month were 1.3°C to 1.5°C below the 30-year normals. Two overnight periods brought challenging temperatures for Niagara growers, with the coldest January temperature reaching -28.7°C at the Grimsby station. Temperatures fell below the LTE10, LTE50 and LTE90 values for Cabernet Franc at a number of sites. January 2011 provided a significant number of opportunities for harvesting icewine grapes, following a considerable number of hours accumulated in December 2010. These conditions provided an early harvest for growers who chose to produce icewine this year.

**APPENDIX**

Potential Icewine Harvest Opportunities for Niagara West:

| <b>Niagara West: Icewine Opportunities (6 Hour Minimum)</b> |               |                |                |                         |                   |                      |                           |                             |                          |                          |                     |                       |                |
|---|---------------|----------------|----------------|-------------------------|-------------------|----------------------|---------------------------|-----------------------------|--------------------------|--------------------------|---------------------|-----------------------|----------------|
| <b>Date &amp; Time</b>                                      | <b>Winona</b> | <b>Grimsby</b> | <b>Lincoln</b> | <b>Lincoln Fly Road</b> | <b>Beamsville</b> | <b>Lincoln Hwy 8</b> | <b>Vineland Lakeshore</b> | <b>Vineland Cherry Ave.</b> | <b>Jordan Escarpment</b> | <b>Jordan Escarpment</b> | <b>Jordan Hwy 8</b> | <b>Jordan Harbour</b> | <b>Rockway</b> |
| <b>Potential Icewine Opportunity</b>                        |               |                |                |                         |                   |                      |                           |                             |                          |                          |                     |                       |                |
| 1/5/2011 17:00  | -4.3          | -5.2           | -5.4           | -5.1                    | -4.6              | -4.8                 | -3.4                      | -3.8                        | -4.5                     | -5.1                     | -4.8                | -3.8                  | -4.4           |
| 1/5/2011 18:00  | -5.3          | -6.3           | -6.9           | -6.5                    | -5.5              | -5.6                 | -4.6                      | -5.1                        | -5.8                     | -6.1                     | -5.6                | -5.1                  | -5.5           |
| 1/5/2011 19:00  | -6            | -7.9           | -8.8           | -7.5                    | -6.6              | -6.4                 | -5.2                      | -5.7                        | -6.8                     | -7.5                     | -6.4                | -6                    | -6.2           |
| 1/5/2011 20:00  | -6.3          | -7.9           | -8.4           | -8                      | -7                | -6.8                 | -5.9                      | -6                          | -7.3                     | -7.4                     | -6.8                | -6.3                  | -6.6           |
| 1/5/2011 21:00  | -7.2          | -8.5           | -8.8           | -8.5                    | -7.5              | -7.6                 | -6.5                      | -6.7                        | -7.7                     | -8.4                     | -7.6                | -7.1                  | -7.6           |
| 1/5/2011 22:00  | -8            | -9.6           | -9.6           | -9.2                    | -8.3              | -8.4                 | -7.2                      | -7.6                        | -8.4                     | -9.4                     | -8.4                | -7.6                  | -8.3           |
| 1/5/2011 23:00  | -8.2          | -9.6           | -9.9           | -9.5                    | -8.5              | -8.5                 | -7.7                      | -7.5                        | -8.5                     | -9.8                     | -8.5                | -8                    | -8.9           |
| 1/6/2011 0:00   | -7.9          | -9.6           | -9.7           | -9.5                    | -8.4              | -8.4                 | -7.5                      | -7.7                        | -8.6                     | -9.4                     | -8.4                | -8                    | -8.8           |
| 1/6/2011 1:00   | -8.2          | -10.1          | -10            | -9.6                    | -8.5              | -8.7                 | -7.6                      | -7.5                        | -8.8                     | -9.4                     | -8.7                | -8.2                  | -8.7           |
| 1/6/2011 2:00   | -8.9          | -10.6          | -10.4          | -9.9                    | -8.7              | -9                   | -7.8                      | -8.2                        | -9.2                     | -9.8                     | -9                  | -8.5                  | -8.9           |
| 1/6/2011 3:00   | -8.8          | -11.2          | -11            | -10                     | -8.6              | -8.9                 | -8                        | -8.7                        | -9.2                     | -10.3                    | -8.9                | -8.6                  | -9.3           |
| 1/6/2011 4:00   | -8.6          | -10.6          | -11.2          | -9.8                    | -8.2              | -8.5                 | -7.8                      | -7.7                        | -9.1                     | -10.6                    | -8.5                | -8.4                  | -9.2           |
| 1/6/2011 5:00   | -8.2          | -10.2          | -10.8          | -10.2                   | -8.9              | -8.8                 | -7.8                      | -8.4                        | -9.5                     | -9.8                     | -8.8                | -8.6                  | -8.9           |
| 1/6/2011 6:00   | -7.9          | -9.8           | -9.9           | -9.6                    | -8.3              | -8.4                 | -7.7                      | -7.8                        | -9                       | -9.4                     | -8.4                | -8.1                  | -8.5           |
| 1/6/2011 7:00   | -7.7          | -9.5           | -9.7           | -9.4                    | -8.4              | -8.4                 | -7.2                      | -7.5                        | -8.6                     | -8.8                     | -8.4                | -7.7                  | -7.8           |
| 1/6/2011 8:00   | -7.1          | -9.2           | -9.5           | -9.2                    | -8.1              | -7.7                 | -7                        | -7.1                        | -8.3                     | -8.7                     | -7.7                | -7.4                  | -7.7           |
| 1/6/2011 9:00   | -6.4          | -7.6           | -7.9           | -7.9                    | -7.1              | -6.7                 | -6.2                      | -6.2                        | -7                       | -7.3                     | -6.7                | -6.5                  | -6.7           |
| 1/6/2011 10:00  | -5.2          | -5.7           | -6.5           | -6.3                    | -5.9              | -5.3                 | -5                        | -5.3                        | -5.8                     | -6.3                     | -5.3                | -5.8                  | -6.2           |
| <b>Potential Icewine Opportunity</b>                        |               |                |                |                         |                   |                      |                           |                             |                          |                          |                     |                       |                |
| 1/7/2011 4:00   | -5.7          | -6.7           | -6.6           | -6.5                    | -5.7              | -6                   | -5                        | -5.2                        | -5.7                     | -5.9                     | -6                  | -5.4                  | -5.6           |
| 1/7/2011 5:00   | -6.5          | -7.6           | -7.5           | -7.4                    | -6.6              | -6.8                 | -6                        | -6.2                        | -6.7                     | -6.8                     | -6.8                | -6.3                  | -6.5           |
| 1/7/2011 6:00   | -7.5          | -8.7           | -8.6           | -8.5                    | -7.6              | -7.9                 | -6.8                      | -7.3                        | -7.6                     | -8.2                     | -7.9                | -7.2                  | -7.5           |
| 1/7/2011 7:00   | -8.1          | -9.4           | -9.5           | -9.4                    | -8.6              | -8.6                 | -7.8                      | -8.1                        | -8.7                     | -9.5                     | -8.6                | -8.3                  | -8.9           |
| 1/7/2011 8:00   | -7.5          | -8.7           | -8.6           | -8.7                    | -7.9              | -7.9                 | -7.3                      | -7.7                        | -8.3                     | -9.3                     | -7.9                | -7.9                  | -9             |
| 1/7/2011 9:00   | -7.2          | -8.4           | -8.5           | -8.4                    | -7.4              | -7.4                 | -6.6                      | -7.2                        | -7.8                     | -8.3                     | -7.4                | -7.1                  | -7.7           |
| 1/7/2011 10:00  | -6.7          | -8.1           | -8.1           | -7.5                    | -6.9              | -7.2                 | -6                        | -6.6                        | -6.8                     | -8.8                     | -7.2                | -6.3                  | -7.8           |
| 1/7/2011 11:00  | -6.2          | -7.3           | -7.3           | -7                      | -6.4              | -6.4                 | -5.6                      | -6.3                        | -7.1                     | -8                       | -6.4                | -6.5                  | -7.4           |
| 1/7/2011 12:00  | -5.7          | -6.7           | -6.8           | -6.5                    | -5.8              | -5.9                 | -5.1                      | -6                          | -6                       | -6.7                     | -5.9                | -5.5                  | -5.7           |
| 1/7/2011 13:00  | -5.4          | -6.5           | -6.3           | -6.2                    | -5.4              | -5.6                 | -5                        | -5.7                        | -5.5                     | -6.2                     | -5.6                | -5                    | -5.1           |
| <b>Potential Icewine Opportunity</b>                        |               |                |                |                         |                   |                      |                           |                             |                          |                          |                     |                       |                |
| 1/7/2011 17:00  | -5.9          | -6.7           | -6.7           | -6.7                    | -5.9              | -6.3                 | -5.5                      | -5.7                        | -6.1                     | -6.6                     | -6.3                | -5.8                  | -6.1           |
| 1/7/2011 18:00  | -6.6          | -7.9           | -7.7           | -7.9                    | -7.2              | -7.2                 | -6.4                      | -6.5                        | -7                       | -7.4                     | -7.2                | -6.7                  | -7.2           |
| 1/7/2011 19:00  | -6.9          | -8.7           | -8.2           | -8.1                    | -7.4              | -7.4                 | -6.5                      | -6.9                        | -7.4                     | -7.7                     | -7.4                | -6.9                  | -7.2           |
| 1/7/2011 20:00  | -7.4          | -8.5           | -8.6           | -8.6                    | -7.8              | -7.9                 | -7.2                      | -7.4                        | -7.9                     | -8.2                     | -7.9                | -7.5                  | -7.7           |
| 1/7/2011 21:00  | -7.4          | -9             | -8.9           | -8.7                    | -8                | -8.2                 | -7.2                      | -7.5                        | -7.8                     | -8.1                     | -8.2                | -7.5                  | -7.7           |
| 1/7/2011 22:00  | -8.1          | -10.1          | -9.2           | -8.9                    | -8.3              | -8.4                 | -7.4                      | -7.7                        | -8                       | -8.1                     | -8.4                | -7.7                  | -8             |
| 1/7/2011 23:00  | -9.2          | -9.6           | -9.6           | -9.1                    | -9.2              | -9.6                 | -7.3                      | -8.2                        | -8.1                     | -8                       | -9.6                | -7.7                  | -7.8           |



Legend:

|  |                            |
|--|----------------------------|
|  | Icewine Temperatures       |
|  | Below Icewine Temperatures |



### Niagara West: Icewine Opportunities (6 Hour Minimum)

| Date & Time                          | Winona | Grimsby | Lincoln | Lincoln Fly Road | Beamsville | Lincoln Hwy 8 | Vineland Lakeshore | Vineland Cherry Ave. | Jordan Escarpment | Jordan Escarpment | Jordan Hwy 8 | Jordan Harbour | Rockway |
|--------------------------------------|--------|---------|---------|------------------|------------|---------------|--------------------|----------------------|-------------------|-------------------|--------------|----------------|---------|
| 1/8/2011 0:00                        | -8.7   | -9.3    | -9.3    | -8.8             | -8.7       | -8.7          | -7.8               | -8.4                 | -7.8              | -7.6              | -8.7         | -7.6           | -7.7    |
| 1/8/2011 1:00                        | -8.8   | -9.5    | -8.6    | -8.2             | -7.8       | -8.1          | -7.5               | -7.8                 | -7.6              | -7.1              | -8.1         | -7.2           | -7.4    |
| 1/8/2011 2:00                        | -8.7   | -9.3    | -8.4    | -8               | -7.2       | -7.9          | -7.1               | -7.4                 | -7.2              | -7.3              | -7.9         | -7.3           | -7.7    |
| 1/8/2011 3:00                        | -7.7   | -8.6    | -7.7    | -7.8             | -6.9       | -7.4          | -6.7               | -7.1                 | -7.4              | -8.1              | -7.4         | -7.5           | -9.1    |
| 1/8/2011 4:00                        | -7.1   | -7.9    | -7.5    | -8               | -7.1       | -7.1          | -7.1               | -7.5                 | -7.5              | -7.8              | -7.1         | -7.8           | -9.1    |
| 1/8/2011 5:00                        | -6.9   | -7.7    | -7.8    | -8.2             | -7.4       | -7.4          | -7.4               | -7.6                 | -7.6              | -8                | -7.4         | -8             | -8.8    |
| 1/8/2011 6:00                        | -7.4   | -7.8    | -8.1    | -8.6             | -7.5       | -7.6          | -7.8               | -7.8                 | -8                | -8.6              | -7.6         | -8.6           | -9.5    |
| 1/8/2011 7:00                        | -6.6   | -7.8    | -8.3    | -9               | -7.7       | -7.5          | -8                 | -8.7                 | -8.4              | -9.2              | -7.5         | -9.2           | -9.9    |
| 1/8/2011 8:00                        | -7.5   | -9.7    | -9.4    | -10.2            | -9.1       | -8.7          | -8.9               | -11.5                | -9.5              | -10.1             | -8.7         | -10.2          | -10.9   |
| 1/8/2011 9:00                        | -8.5   | -12     | -9.2    | -9.5             | -8.6       | -8.8          | -10.1              | -12.4                | -9.9              | -10.1             | -8.8         | -11.1          | -10.8   |
| 1/8/2011 10:00                       | -6.6   | -8.4    | -7.8    | -7.8             | -7         | -6.3          | -7.2               | -8.9                 | -7.2              | -8                | -6.3         | -8             | -7.9    |
| 1/8/2011 11:00                       | -5.6   | -5.1    | -5.7    | -6               | -4.7       | -3.5          | -3.7               | -5                   | -4.7              | -5.3              | -3.5         | -5.1           | -5.1    |
| 1/8/2011 12:00                       | -3.5   | -3.4    | -4.1    | -4.2             | -3.1       | -1.8          | -1.2               | -2.3                 | -3.1              | -3.1              | -1.8         | -2             | -4.1    |
| <b>Potential Icewine Opportunity</b> |        |         |         |                  |            |               |                    |                      |                   |                   |              |                |         |
| 1/8/2011 17:00                       | -4.7   | -5.5    | -5.5    | -5.6             | -4.7       | -4.5          | -3.8               | -4.4                 | -4.9              | -5.1              | -4.5         | -4.5           | -4.9    |
| 1/8/2011 18:00                       | -5     | -6.2    | -6.4    | -5.9             | -5         | -4.9          | -4.2               | -4.8                 | -5.2              | -5.1              | -4.9         | -4.8           | -4.9    |
| 1/8/2011 19:00                       | -5     | -6.6    | -8.5    | -6.7             | -5.4       | -5.1          | -4.3               | -5.4                 | -6.2              | -6.2              | -5.1         | -5.5           | -5.7    |
| 1/8/2011 20:00                       | -5.1   | -6.3    | -7.5    | -6.8             | -5.5       | -5.1          | -4.4               | -5.4                 | -6.3              | -7.3              | -5.1         | -5.7           | -6.2    |
| 1/8/2011 21:00                       | -7.6   | -7.3    | -9.9    | -7               | -5.7       | -5.4          | -4.5               | -5.2                 | -6.1              | -6.9              | -5.4         | -5.9           | -6.1    |
| 1/8/2011 22:00                       | -8.4   | -10.8   | -11.2   | -9.1             | -8.2       | -8.1          | -4.8               | -6.4                 | -7.8              | -10.2             | -8.1         | -6.4           | -8.3    |
| 1/8/2011 23:00                       | -10    | -13.3   | -12.5   | -10.1            | -9.1       | -9.5          | -7.5               | -9.6                 | -9.3              | -11.4             | -9.5         | -7.9           | -9.4    |
| 1/9/2011 0:00                        | -7.5   | -10.8   | -11.3   | -9.6             | -8.1       | -7.8          | -6.5               | -8.6                 | -8.6              | -10.4             | -7.8         | -7.9           | -9.2    |
| 1/9/2011 1:00                        | -7.7   | -9.6    | -11.2   | -9.3             | -8.2       | -7.4          | -5.1               | -6.5                 | -7.5              | -8.8              | -7.4         | -5.9           | -8      |
| 1/9/2011 2:00                        | -9.7   | -11.8   | -12.4   | -10.5            | -9.2       | -9.6          | -6.3               | -8.9                 | -9.3              | -10.9             | -9.6         | -7.2           | -9.3    |
| 1/9/2011 3:00                        | -10.4  | -14     | -13     | -11.4            | -10.6      | -10.5         | -9.5               | -10.9                | -10.9             | -12.7             | -10.5        | -9.7           | -11.4   |
| 1/9/2011 4:00                        | -10.6  | -14.4   | -13.6   | -11.7            | -10.4      | -11           | -10.1              | -11                  | -10.9             | -11.8             | -11          | -10.3          | -11.1   |
| 1/9/2011 5:00                        | -9.1   | -12.5   | -13.6   | -11.7            | -10.6      | -9.8          | -8.7               | -9.8                 | -9.9              | -11.9             | -9.8         | -9.6           | -10.7   |
| 1/9/2011 6:00                        | -8.6   | -10.3   | -11.9   | -10.9            | -9.8       | -8.7          | -7.7               | -8.9                 | -8.9              | -10.3             | -8.7         | -8.7           | -9.2    |
| 1/9/2011 7:00                        | -9.1   | -10.6   | -11.9   | -10.7            | -9.8       | -8.9          | -7.6               | -8.7                 | -9.5              | -9.8              | -8.9         | -8.5           | -8.9    |
| 1/9/2011 8:00                        | -9.5   | -10.5   | -12.4   | -9.8             | -8.8       | -8.3          | -6.4               | -7.5                 | -8.1              | -8.8              | -8.3         | -7.5           | -8      |
| 1/9/2011 9:00                        | -10.3  | -12.7   | -13.6   | -11.9            | -10.1      | -10           | -5.9               | -9.1                 | -11               | -11.8             | -10          | -6.6           | -10     |
| 1/9/2011 10:00                       | -8     | -10.8   | -12.5   | -11              | -9.7       | -9            | -7                 | -8.8                 | -10.2             | -11.5             | -9           | -7.8           | -10.6   |
| 1/9/2011 11:00                       | -6.6   | -7.7    | -9.4    | -8.8             | -7.2       | -7            | -6                 | -7.3                 | -7.8              | -9.2              | -7           | -6.6           | -8      |
| 1/9/2011 12:00                       | -4.9   | -5.7    | -7.1    | -7.2             | -5.5       | -4.8          | -4.7               | -5.7                 | -6                | -6.9              | -4.8         | -4.7           | -5.9    |
| 1/9/2011 13:00                       | -4     | -4.7    | -5.1    | -5.4             | -3.8       | -3.7          | -3.7               | -4.2                 | -4.3              | -4.8              | -3.7         | -3.4           | -4.2    |
| <b>Potential Icewine Opportunity</b> |        |         |         |                  |            |               |                    |                      |                   |                   |              |                |         |
| 1/9/2011 17:00                       | -4.9   | -5.6    | -6      | -6.2             | -4.8       | -5.2          | -3.9               | -4.7                 | -5.1              | -5.6              | -5.2         | -4.2           | -4.6    |
| 1/9/2011 18:00                       | -5.8   | -6.9    | -7.9    | -7.7             | -6.1       | -6.2          | -5.3               | -6.1                 | -6.3              | -7.2              | -6.2         | -6.2           | -6.5    |



Legend:

|  |                           |
|--|---------------------------|
|  | Icwine Temperatures       |
|  | Below Icwine Temperatures |



### Niagara West: Icewine Opportunities (6 Hour Minimum)

| Date & Time                          | Winona | Grimsby | Lincoln | Lincoln Fly Road | Beamsville | Lincoln Hwy 8 | Vineland Lakeshore | Vineland Cherry Ave. | Jordan Escarpment | Jordan Escarpment | Jordan Hwy 8 | Jordan Harbour | Rockway |
|--------------------------------------|--------|---------|---------|------------------|------------|---------------|--------------------|----------------------|-------------------|-------------------|--------------|----------------|---------|
| 1/9/2011 19:00                       | -6.5   | -7.5    | -9.1    | -8.1             | -6.7       | -6.5          | -4.9               | -6                   | -6.6              | -7.5              | -6.5         | -6.3           | -6.8    |
| 1/9/2011 20:00                       | -7.1   | -10.6   | -10.8   | -9               | -7.2       | -7.7          | -5.5               | -7.1                 | -7.1              | -8.4              | -7.7         | -6.3           | -7.7    |
| 1/9/2011 21:00                       | -8.5   | -12.3   | -11.4   | -9.8             | -8.3       | -8.7          | -6.9               | -8.9                 | -8.8              | -10.5             | -8.7         | -8.1           | -8.4    |
| 1/9/2011 22:00                       | -8.8   | -13     | -12.2   | -10.1            | -8.8       | -9.1          | -8.2               | -8.7                 | -9.5              | -11.8             | -9.1         | -8.5           | -9.2    |
| 1/9/2011 23:00                       | -9.5   | -13.4   | -12.7   | -10.6            | -9         | -9.1          | -8.4               | -8.7                 | -9.9              | -12.1             | -9.1         | -8.4           | -9.8    |
| 1/10/2011 0:00                       | -9.6   | -13.9   | -12.6   | -10.9            | -9.6       | -9.5          | -9.2               | -8.9                 | -10.2             | -12.5             | -9.5         | -9             | -10.7   |
| 1/10/2011 1:00                       | -10.4  | -13.3   | -13.3   | -11              | -9.3       | -9.7          | -9.1               | -9.7                 | -10.5             | -12.8             | -9.7         | -9.3           | -10.5   |
| 1/10/2011 2:00                       | -10.3  | -12.7   | -13.4   | -11.1            | -9.5       | -9.9          | -8.7               | -9.7                 | -10.6             | -12.4             | -9.9         | -9.3           | -10.6   |
| 1/10/2011 3:00                       | -8.7   | -13     | -12.3   | -11.2            | -10.1      | -9.8          | -9.1               | -9.8                 | -10.3             | -13.2             | -9.8         | -9.8           | -11     |
| 1/10/2011 4:00                       | -9.6   | -14     | -12.4   | -11.5            | -10.7      | -10.3         | -9.7               | -10.2                | -10.5             | -12.9             | -10.3        | -9.9           | -11.4   |
| 1/10/2011 5:00                       | -9.7   | -13.2   | -13.6   | -11.6            | -10.9      | -10.3         | -9.6               | -10.4                | -9.9              | -12.6             | -10.3        | -9.9           | -11     |
| 1/10/2011 6:00                       | -9.7   | -10.9   | -13.6   | -11.7            | -11        | -9.3          | -10.7              | -10.3                | -9.4              | -13.2             | -9.3         | -9.8           | -11.2   |
| 1/10/2011 7:00                       | -9.9   | -11.7   | -14.8   | -12.4            | -11.4      | -9.1          | -9.7               | -9.9                 | -11               | -13.4             | -9.1         | -9.5           | -11.8   |
| 1/10/2011 8:00                       | -10.4  | -12.9   | -13     | -11.6            | -10.6      | -10.1         | -10.4              | -10.7                | -10.9             | -12.9             | -10.1        | -10.6          | -11.4   |
| 1/10/2011 9:00                       | -9.6   | -12.2   | -12.9   | -10              | -9.1       | -8.6          | -7.2               | -9.4                 | -8.6              | -12.2             | -8.6         | -8.7           | -9.8    |
| 1/10/2011 10:00                      | -8.3   | -10.2   | -10.5   | -9.7             | -8.1       | -8            | -7.1               | -8.1                 | -7.8              | -10.4             | -8           | -7.3           | -8.9    |
| 1/10/2011 11:00                      | -6.9   | -7.5    | -7.1    | -7.7             | -6.4       | -6.1          | -5.3               | -6.4                 | -6.7              | -7                | -6.1         | -5.1           | -6.6    |
| 1/10/2011 12:00                      | -5.5   | -6.3    | -5.5    | -6.2             | -5.3       | -4.6          | -4.2               | -4.7                 | -4.7              | -5.3              | -4.6         | -3.3           | -4.9    |
| <b>Potential Icewine Opportunity</b> |        |         |         |                  |            |               |                    |                      |                   |                   |              |                |         |
| 1/10/2011 16:00                      | -2.9   | -3.9    | -4.8    | -4.3             | -3.4       | -3.6          | -3.2               | -3.7                 | -3.7              | -4.9              | -3.6         | -3.1           | -3.7    |
| 1/10/2011 17:00                      | -4.9   | -6.4    | -6.7    | -5.9             | -5.2       | -5.6          | -4.2               | -5.2                 | -5.5              | -7.2              | -5.6         | -4.5           | -5.8    |
| 1/10/2011 18:00                      | -6.2   | -8.7    | -8.8    | -7.4             | -6.7       | -6.5          | -6.1               | -6.9                 | -7.2              | -8.6              | -6.5         | -6.4           | -7.8    |
| 1/10/2011 19:00                      | -6.9   | -10.3   | -9.7    | -8.6             | -7.4       | -7.3          | -7                 | -7.2                 | -7.8              | -9                | -7.1         | -7.1           | -8.2    |
| 1/10/2011 20:00                      | -7.9   | -12.2   | -11.1   | -9.2             | -7.5       | -7.7          | -7.7               | -8                   | -8.4              | -9.9              | -7.7         | -7.8           | -8.6    |
| 1/10/2011 21:00                      | -10.1  | -13.5   | -11.7   | -10              | -8.7       | -7.3          | -6.5               | -10                  | -8.9              | -11.4             | -7.3         | -7.9           | -9.8    |
| 1/10/2011 22:00                      | -11.2  | -14.1   | -10.9   | -8.9             | -6.1       | -4.1          | -3.6               | -5.6                 | -7.4              | -9.3              | -5           | -4.8           | -8.8    |
| 1/10/2011 23:00                      | -5.1   | -6.6    | -9.1    | -5.2             | -4.2       | -4.2          | -3.5               | -3.9                 | -4.9              | -8.4              | -5.1         | -3.9           | -7.8    |
| 1/11/2011 0:00                       | -4.1   | -5.1    | -8      | -5.1             | -4.3       | -4.4          | -3.8               | -4                   | -4.6              | -8                | -5.4         | -4.1           | -7.1    |
| 1/11/2011 1:00                       | -4.4   | -5.5    | -5.5    | -5.3             | -4.6       | -4.6          | -3.9               | -4.2                 | -5.1              | -7.8              | -5.6         | -4.8           | -7.4    |
| 1/11/2011 2:00                       | -4.9   | -5.5    | -5.4    | -5.4             | -4.6       | -4.7          | -3.9               | -4.3                 | -5.3              | -7.5              | -5.2         | -5.7           | -7.2    |
| <b>Potential Icewine Opportunity</b> |        |         |         |                  |            |               |                    |                      |                   |                   |              |                |         |
| 1/11/2011 22:00                      | -4.1   | -6.3    | -5.3    | -5.5             | -4.8       | -4.6          | -3.9               | -4.4                 | -5.1              | -5.2              | -4.6         | -4.8           | -5.2    |
| 1/11/2011 23:00                      | -4.6   | -7.2    | -5.7    | -5.9             | -5.2       | -4.9          | -4.2               | -4.8                 | -5.6              | -5.7              | -4.9         | -5.2           | -5.6    |
| 1/12/2011 0:00                       | -5.2   | -8.1    | -5.8    | -6               | -5.2       | -5.2          | -4.4               | -4.8                 | -5.6              | -5.9              | -5.2         | -5.2           | -5.8    |
| 1/12/2011 1:00                       | -5.7   | -8.4    | -5.9    | -5.9             | -5.4       | -5.6          | -4.6               | -4.9                 | -5.6              | -5.9              | -5.6         | -5.1           | -5.8    |
| 1/12/2011 2:00                       | -6.8   | -8.3    | -6.4    | -6.4             | -5.9       | -6.3          | -5.1               | -5.4                 | -5.8              | -5.9              | -6.3         | -5.4           | -5.8    |
| 1/12/2011 3:00                       | -7.3   | -8.5    | -7.3    | -7.2             | -6.6       | -6.8          | -5.7               | -6.1                 | -6.5              | -6.3              | -6.8         | -6.1           | -6.2    |
| 1/12/2011 4:00                       | -7.5   | -8.6    | -7.9    | -7.7             | -7.1       | -7.5          | -6.2               | -6.6                 | -7                | -7                | -7.5         | -6.6           | -6.9    |



Legend:

|  |                            |
|--|----------------------------|
|  | Icewine Temperatures       |
|  | Below Icewine Temperatures |



### Niagara West: Icewine Opportunities (6 Hour Minimum)

| Date & Time                          | Winona | Grimsby | West Lincoln | Lincoln Fly Road | Beamsville | Lincoln Hwy 8 | Vineland Lakeshore | Vineland Cherry Ave. | Jordan Escarpment | Jordan Escarpment | Jordan Hwy 8 | Jordan Harbour | Rockway |
|--------------------------------------|--------|---------|--------------|------------------|------------|---------------|--------------------|----------------------|-------------------|-------------------|--------------|----------------|---------|
| 1/12/2011 5:00                       | -7.7   | -8.8    | -8.2         | -8.1             | -7.5       | -7.6          | -6.5               | -6.9                 | -7.4              | -7.3              | -7.6         | -6.8           | -7      |
| 1/12/2011 6:00                       | -7.9   | -8.9    | -8.3         | -8.3             | -7.6       | -7.6          | -6.6               | -7.1                 | -7.6              | -7.3              | -7.6         | -7             | -7.2    |
| 1/12/2011 7:00                       | -7.9   | -8.7    | -8.4         | -8.5             | -7.8       | -7.8          | -6.9               | -7.3                 | -7.8              | -7.7              | -7.8         | -7.2           | -7.4    |
| 1/12/2011 8:00                       | -8.1   | -8.4    | -8.5         | -8.6             | -7.8       | -7.9          | -7                 | -7.4                 | -8                | -7.9              | -7.9         | -7.4           | -7.6    |
| 1/12/2011 9:00                       | -8.2   | -8.5    | -8.5         | -8.5             | -7.8       | -7.9          | -6.9               | -7.3                 | -7.9              | -7.9              | -7.9         | -7.3           | -7.6    |
| 1/12/2011 10:00                      | -7.9   | -8.1    | -8.3         | -8.3             | -7.7       | -7.7          | -6.8               | -7.2                 | -7.6              | -7.6              | -7.7         | -7             | -7.5    |
| 1/12/2011 11:00                      | -7.6   | -7.6    | -8           | -8.2             | -7.6       | -7.5          | -6.6               | -7                   | -7.4              | -7.3              | -7.5         | -6.6           | -7.2    |
| 1/12/2011 12:00                      | -7.6   | -7.5    | -8           | -8.3             | -7.6       | -7.6          | -6.7               | -7                   | -7.4              | -7.6              | -7.6         | -6.7           | -7.4    |
| 1/12/2011 13:00                      | -7     | -7.8    | -7.8         | -8.3             | -7.5       | -7.3          | -6.8               | -7.2                 | -7.6              | -7.7              | -7.3         | -6.9           | -7.5    |
| 1/12/2011 14:00                      | -6.5   | -7.6    | -7.5         | -8.1             | -7.2       | -7            | -6.6               | -6.9                 | -7.3              | -7.5              | -7           | -6.9           | -7.5    |
| 1/12/2011 15:00                      | -6.4   | -7.3    | -7.2         | -7.9             | -7         | -6.7          | -6.6               | -6.9                 | -7.2              | -7.5              | -6.7         | -6.7           | -7.3    |
| 1/12/2011 16:00                      | -6.6   | -7.5    | -7.6         | -8.1             | -7.2       | -7.2          | -6.7               | -7.1                 | -7.5              | -7.7              | -7.2         | -7.1           | -7.4    |
| 1/12/2011 17:00                      | -6.4   | -8      | -7.6         | -7.9             | -7.1       | -6.8          | -6.5               | -6.9                 | -7.5              | -7.7              | -6.8         | -7             | -7.5    |
| 1/12/2011 18:00                      | -6.3   | -7.8    | -7.4         | -7.4             | -6.6       | -6.5          | -6.1               | -6.5                 | -7                | -7.3              | -6.5         | -6.7           | -7      |
| <b>Potential Icewine Opportunity</b> |        |         |              |                  |            |               |                    |                      |                   |                   |              |                |         |
| 1/12/2011 19:00                      | -6.5   | -7.9    | -7.4         | -7.3             | -6.6       | -6.6          | -5.7               | -6.1                 | -6.7              | -6.9              | -6.6         | -6.3           | -6.7    |
| 1/12/2011 20:00                      | -7.1   | -8.3    | -8.3         | -7.4             | -6.6       | -6.8          | -5.5               | -6                   | -6.6              | -6.6              | -6.8         | -6.1           | -6.3    |
| 1/12/2011 21:00                      | -6.7   | -8.6    | -8.6         | -7.5             | -6.6       | -6.7          | -5.7               | -6.1                 | -6.6              | -6.7              | -6.7         | -6             | -6.2    |
| 1/12/2011 22:00                      | -6.9   | -9.3    | -7.8         | -7.7             | -6.9       | -7            | -5.9               | -6.4                 | -7                | -7.1              | -7           | -6.3           | -6.5    |
| 1/12/2011 23:00                      | -7.4   | -9.6    | -8.1         | -8.1             | -7.3       | -7.3          | -6.6               | -6.9                 | -7.3              | -7.4              | -7.3         | -7             | -7.2    |
| 1/13/2011 0:00                       | -7.6   | -9.7    | -8.5         | -8.9             | -8         | -7.9          | -7.6               | -8                   | -8.4              | -8.7              | -7.9         | -8.3           | -8.7    |
| 1/13/2011 1:00                       | -8.2   | -9.6    | -9.4         | -9.9             | -9         | -8.9          | -8.5               | -8.9                 | -9.5              | -9.7              | -8.9         | -9.2           | -9.6    |
| 1/13/2011 2:00                       | -8.5   | -9.6    | -9.8         | -10.1            | -9.3       | -9            | -8.6               | -9.1                 | -9.5              | -9.8              | -9           | -9.2           | -9.6    |
| 1/13/2011 3:00                       | -8.6   | -9.7    | -9.9         | -10.1            | -9.3       | -9.1          | -8.5               | -8.9                 | -9.5              | -9.8              | -9.1         | -9.2           | -9.7    |
| 1/13/2011 4:00                       | -8.7   | -10.1   | -9.8         | -10              | -9.1       | -8.9          | -8.4               | -8.8                 | -9.4              | -9.5              | -8.9         | -8.9           | -9.3    |
| 1/13/2011 5:00                       | -8.6   | -10.3   | -9.7         | -10.1            | -9.2       | -8.9          | -8.5               | -9                   | -9.7              | -9.6              | -8.9         | -9             | -9.2    |
| 1/13/2011 6:00                       | -9.3   | -10     | -10          | -9.8             | -9         | -8.7          | -8.2               | -8.7                 | -9.4              | -9.6              | -8.7         | -8.8           | -9.1    |
| 1/13/2011 7:00                       | -9.1   | -8.5    | -10.5        | -9.7             | -8.9       | -8.7          | -7.9               | -8.3                 | -9                | -9.5              | -8.7         | -8.5           | -9.1    |
| 1/13/2011 8:00                       | -9     | -8      | -10.4        | -10.1            | -9.2       | -9.1          | -7.6               | -8                   | -9                | -9.9              | -9.1         | -8.2           | -9.5    |
| 1/13/2011 9:00                       | -8.2   | -7.3    | -10.2        | -10.2            | -9.4       | -9.2          | -7.4               | -8.3                 | -9.1              | -9.8              | -9.2         | -7.9           | -9.3    |
| 1/13/2011 10:00                      | -7.5   | -7      | -9.3         | -9.3             | -8.5       | -7.9          | -7.5               | -8.2                 | -8.8              | -9.4              | -7.9         | -8.1           | -8.7    |
| 1/13/2011 11:00                      | -7     | -6.5    | -8.7         | -8.5             | -7.5       | -7.4          | -6.7               | -7.2                 | -7.5              | -8.2              | -7.4         | -6.8           | -7.6    |
| 1/13/2011 12:00                      | -6.1   | -5.2    | -7.7         | -8               | -7.4       | -7.3          | -6.6               | -7.2                 | -7.6              | -8.1              | -7.3         | -6.7           | -7.3    |
| 1/13/2011 13:00                      | -5.4   | -5.3    | -7.4         | -7               | -6.4       | -5.7          | -6.1               | -6.7                 | -6.4              | -7.3              | -5.7         | -6.6           | -6.6    |
| 1/13/2011 14:00                      | -5.1   | -6.2    | -7.1         | -6.5             | -6         | -5.8          | -5                 | -6.2                 | -6.1              | -6.8              | -5.8         | -5.3           | -5.6    |
| <b>Potential Icewine Opportunity</b> |        |         |              |                  |            |               |                    |                      |                   |                   |              |                |         |
| 1/14/2011 14:00                      | -2.9   | -5.7    | -6.7         | -3.3             | -4.2       | -4.7          | -3                 | -3.7                 | -4.8              | -5.2              | -3.4         | -3.1           | -4.6    |
| 1/14/2011 15:00                      | -2.2   | -8.6    | -8.8         | -3.1             | -6.6       | -6.1          | -5.3               | -6.1                 | -7.3              | -8.8              | -3.4         | -5.7           | -7.9    |



Legend:

|  |                            |
|--|----------------------------|
|  | Icewine Temperatures       |
|  | Below Icewine Temperatures |



### Niagara West: Icewine Opportunities (6 Hour Minimum)

| Date & Time     | Winona | Grimsby | Lincoln | Lincoln Fly Road | Beamsville | Lincoln Hwy 8 | Vineland Lakeshore | Vineland Cherry Ave. | Jordan Escarpment | Jordan Escarpment | Jordan Hwy 8 | Jordan Harbour | Rockway |
|-----------------|--------|---------|---------|------------------|------------|---------------|--------------------|----------------------|-------------------|-------------------|--------------|----------------|---------|
| 1/14/2011 16:00 | -2.8   | -9.6    | -9.7    | -3.1             | -7         | -6.7          | -6.8               | -6.2                 | -7.5              | -9.8              | -3.5         | -6.7           | -8.9    |
| 1/14/2011 17:00 | -4.1   | -8.5    | -10.5   | -4.8             | -7.1       | -6.4          | -6.3               | -5.9                 | -6.9              | -8                | -4.7         | -5.9           | -7.2    |
| 1/14/2011 18:00 | -6     | -10.5   | -10.7   | -7.4             | -8         | -7.4          | -6.7               | -6.2                 | -7.2              | -9.4              | -6.1         | -6.6           | -8.1    |
| 1/14/2011 19:00 | -6     | -11.1   | -12.3   | -7.9             | -9.9       | -8.5          | -7.5               | -9.3                 | -10.5             | -11.2             | -6.7         | -7.9           | -10.5   |
| 1/14/2011 20:00 | -6.4   | -11.9   | -11.9   | -8.2             | -10.5      | -8.9          | -9.7               | -12.5                | -10.6             | -9.5              | -6.4         | -9.3           | -9.4    |
| 1/14/2011 21:00 | -7     | -9.9    | -9.5    | -8.3             | -7.6       | -7.9          | -9.5               | -11                  | -8.9              | -8.3              | -7.4         | -9             | -7.4    |
| 1/14/2011 22:00 | -7.8   | -8.4    | -8.6    | -10.2            | -7.2       | -7.1          | -7.9               | -8.2                 | -8                | -7.3              | -8.5         | -7.9           | -6.8    |
| 1/14/2011 23:00 | -8.6   | -8      | -8.2    | -10.6            | -7         | -6.8          | -7                 | -7.1                 | -7                | -7                | -8.9         | -6.9           | -6.7    |
| 1/15/2011 0:00  | -7.6   | -7.7    | -7.6    | -8.7             | -6.6       | -6.6          | -6.2               | -6.3                 | -6.6              | -6.7              | -7.9         | -6.5           | -6.6    |
| 1/15/2011 1:00  | -7.1   | -7.3    | -7.2    | -8.3             | -6.3       | -6.6          | -6                 | -6.3                 | -6.4              | -6.8              | -7.1         | -6.4           | -6.5    |
| 1/15/2011 2:00  | -6.4   | -6.8    | -6.6    | -8               | -5.9       | -6.6          | -6                 | -6.2                 | -6                | -6.1              | -6.8         | -6.2           | -6.1    |
| 1/15/2011 3:00  | -6.3   | -5.9    | -5.3    | -7.4             | -5         | -5.4          | -5.5               | -5.5                 | -5                | -5                | -6.6         | -5.8           | -5.9    |
| 1/15/2011 4:00  | -6.3   | -5      | -4.6    | -7.1             | -4.1       | -4.2          | -5.1               | -4.2                 | -4.4              | -4.5              | -6.6         | -5.2           | -5      |

#### Potential Icewine Opportunity

|                 |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1/15/2011 23:00 | -5.9  | -7.1  | -6.9  | -7.3  | -5.9  | -6.2  | -5.3  | -5.7  | -5.9  | -6.3  | -6.1  | -5.8  | -5.9  |
| 1/16/2011 0:00  | -5.4  | -7.8  | -7.7  | -6.8  | -6.5  | -6.9  | -6.1  | -6.3  | -6.5  | -7    | -5.9  | -6.4  | -6.5  |
| 1/16/2011 1:00  | -5    | -9.1  | -8.9  | -6.5  | -7.4  | -7.6  | -6.1  | -7    | -7.2  | -7.8  | -5.8  | -6.8  | -7.2  |
| 1/16/2011 2:00  | -5.5  | -9.7  | -9.3  | -6.7  | -8.1  | -8.4  | -7.1  | -7.7  | -7.9  | -8.6  | -6.2  | -7.4  | -8    |
| 1/16/2011 3:00  | -6.1  | -9    | -9.6  | -7.4  | -8.2  | -8    | -7.4  | -8.1  | -8.2  | -8.9  | -6.9  | -8.1  | -8.4  |
| 1/16/2011 4:00  | -6.6  | -10.1 | -10.6 | -8.2  | -8.4  | -8.2  | -5.9  | -7    | -7.8  | -8.5  | -7.6  | -6.6  | -7.8  |
| 1/16/2011 5:00  | -7.2  | -9.2  | -9.9  | -8.9  | -8.4  | -8.2  | -6.5  | -7.5  | -8    | -8.8  | -8.4  | -7.2  | -8.3  |
| 1/16/2011 6:00  | -7.2  | -8.8  | -9.7  | -9.3  | -8    | -7.7  | -6.8  | -7.3  | -7.9  | -8.5  | -8    | -7.3  | -7.8  |
| 1/16/2011 7:00  | -8.3  | -8.5  | -8.5  | -9.4  | -7.4  | -7.6  | -7    | -7.2  | -7.7  | -7.8  | -8.2  | -7.3  | -7.3  |
| 1/16/2011 8:00  | -7.7  | -8.8  | -8.5  | -9.4  | -8.2  | -8.2  | -7.8  | -8    | -8.2  | -8.4  | -8.2  | -7.9  | -8.1  |
| 1/16/2011 9:00  | -7.6  | -9.3  | -9.1  | -9.1  | -8.4  | -8.2  | -8.2  | -8.3  | -8.3  | -8.7  | -7.7  | -7.7  | -8.3  |
| 1/16/2011 10:00 | -7.7  | -9.5  | -9.5  | -8.7  | -8.9  | -9.3  | -8.8  | -8.6  | -8.8  | -8.8  | -7.6  | -8.5  | -8.4  |
| 1/16/2011 11:00 | -8.3  | -10.6 | -9.9  | -9    | -9.2  | -9.7  | -9.3  | -9.3  | -9.2  | -9.7  | -8.2  | -8.9  | -9.1  |
| 1/16/2011 12:00 | -8.8  | -11.3 | -11.1 | -9.6  | -10.4 | -10.6 | -9.8  | -10.4 | -10.7 | -10.9 | -8.2  | -9.6  | -10.2 |
| 1/16/2011 13:00 | -9.3  | -11.2 | -11.1 | -10.1 | -10.3 | -10.5 | -9.7  | -10.3 | -10.5 | -10.9 | -9.3  | -9.7  | -10.2 |
| 1/16/2011 14:00 | -10.1 | -12   | -12.1 | -10.5 | -11.3 | -11.4 | -10.1 | -10.9 | -11.4 | -11.7 | -9.7  | -10.7 | -11.1 |
| 1/16/2011 15:00 | -10.6 | -12.9 | -13.1 | -11.6 | -12.1 | -12.4 | -10.3 | -11.9 | -12.2 | -12.8 | -10.6 | -11.7 | -12.2 |
| 1/16/2011 16:00 | -10.4 | -13.4 | -14.4 | -11.6 | -12.4 | -12.6 | -10.5 | -12.7 | -12.5 | -13.7 | -10.5 | -11.7 | -13.2 |
| 1/16/2011 17:00 | -11   | -14   | -15.6 | -12.3 | -13.2 | -13.1 | -10.9 | -12.6 | -13.1 | -14.6 | -11.4 | -11.9 | -14.6 |
| 1/16/2011 18:00 | -12.2 | -14.4 | -17.2 | -13.4 | -14.7 | -13.5 | -11.3 | -14   | -14.2 | -16.8 | -12.4 | -12.5 | -16.3 |
| 1/16/2011 19:00 | -12.7 | -15.8 | -18.6 | -13.8 | -16.8 | -14.7 | -11.5 | -16.3 | -15   | -18.4 | -12.6 | -14.6 | -16   |
| 1/16/2011 20:00 | -13.5 | -21.9 | -19.2 | -14.7 | -16.3 | -16.4 | -11.7 | -19.8 | -16.4 | -19.7 | -13.1 | -16.1 | -17.7 |
| 1/16/2011 21:00 | -14.8 | -23.6 | -19.1 | -15.6 | -16.6 | -16.5 | -16.4 | -18.9 | -16.8 | -20.4 | -13.5 | -17.3 | -17.7 |
| 1/16/2011 22:00 | -15.4 | -25.3 | -19.8 | -16.7 | -17.3 | -18.7 | -17   | -20.9 | -17   | -20.7 | -14.7 | -19   | -18.5 |



Legend:

|  |                           |
|--|---------------------------|
|  | Icwine Temperatures       |
|  | Below Icwine Temperatures |



### Niagara West: Icewine Opportunities (6 Hour Minimum)

| Date & Time                          | Winona | Grimsby | Lincoln | Lincoln Fly Road | Beamsville | Lincoln Hwy 8 | Vineland Lakeshore | Vineland Cherry Ave. | Jordan Escarpment | Jordan Escarpment | Jordan Hwy 8 | Jordan Harbour | Rockway |
|--------------------------------------|--------|---------|---------|------------------|------------|---------------|--------------------|----------------------|-------------------|-------------------|--------------|----------------|---------|
| 1/16/2011 23:00                      | -16.8  | -27.2   | -20     | -16.6            | -18.5      | -20.7         | -18.6              | -22.9                | -19.3             | -22.7             | -16.4        | -20.7          | -19.2   |
| 1/17/2011 0:00                       | -18.9  | -28     | -22.5   | -16.5            | -18.4      | -21           | -20.2              | -23.2                | -20.2             | -24.5             | -16.5        | -21.1          | -20.3   |
| 1/17/2011 1:00                       | -20    | -28.1   | -22.3   | -17.2            | -18.6      | -21.8         | -20.2              | -23.3                | -19.7             | -24.3             | -18.7        | -21.4          | -20.5   |
| 1/17/2011 2:00                       | -20    | -27.9   | -22.7   | -17.1            | -19.6      | -20.2         | -20.5              | -23.8                | -20.6             | -25.3             | -20.7        | -21.2          | -20.8   |
| 1/17/2011 3:00                       | -20.5  | -28.3   | -23.1   | -18.7            | -17.7      | -18.8         | -20.5              | -24.1                | -18.3             | -24.1             | -21          | -21.2          | -19.5   |
| 1/17/2011 4:00                       | -20.8  | -27.8   | -20.7   | -19.4            | -15.5      | -14.5         | -17.6              | -16.3                | -15.6             | -19               | -21.8        | -18.3          | -17.4   |
| 1/17/2011 5:00                       | -20.4  | -24.8   | -18.1   | -19              | -15.2      | -14.1         | -15.6              | -15.3                | -15.3             | -16.8             | -20.2        | -16.8          | -16.6   |
| 1/17/2011 6:00                       | -19.8  | -17.3   | -16.1   | -18.3            | -14.5      | -13.6         | -14.4              | -15.1                | -14.2             | -15.8             | -18.8        | -15.5          | -15.7   |
| 1/17/2011 7:00                       | -18.5  | -13.1   | -14.1   | -17.8            | -12.4      | -11.6         | -12.1              | -12.2                | -12.7             | -13.8             | -14.5        | -12.4          | -13.2   |
| 1/17/2011 8:00                       | -14.7  | -10.3   | -12.3   | -17.3            | -10.5      | -10.4         | -9.9               | -10.7                | -11.2             | -12               | -14.1        | -10.2          | -10.7   |
| 1/17/2011 9:00                       | -13.5  | -9.1    | -10.9   | -15.7            | -9.2       | -9.6          | -8.8               | -9.3                 | -9.4              | -10.3             | -13.6        | -8.8           | -9.1    |
| 1/17/2011 10:00                      | -11.5  | -8.1    | -9.3    | -13.7            | -8.2       | -8.2          | -8                 | -8.5                 | -8.2              | -8.8              | -11.6        | -7.7           | -7.7    |
| 1/17/2011 11:00                      | -9.9   | -7.8    | -8.7    | -12.1            | -7.8       | -7.9          | -7.3               | -8.1                 | -8                | -8.1              | -10.4        | -7.5           | -7.1    |
| 1/17/2011 12:00                      | -9     | -9.1    | -10.3   | -10.4            | -8.5       | -8.7          | -8.2               | -8.4                 | -8.7              | -8.7              | -9.6         | -8.2           | -7.7    |
| 1/17/2011 13:00                      | -7.3   | -8.1    | -9.3    | -9.3             | -8.2       | -8.2          | -8                 | -8.5                 | -8.2              | -8.8              | -8.2         | -7.7           | -7.7    |
| 1/17/2011 14:00                      | -7     | -7.8    | -8.7    | -8.6             | -7.8       | -7.9          | -7.3               | -8.1                 | -8                | -8.1              | -7.9         | -7.5           | -7.1    |
| 1/17/2011 15:00                      | -7     | -7.7    | -8.8    | -8.5             | -7.9       | -8.1          | -7.2               | -7.6                 | -7.3              | -7.5              | -8.1         | -6.9           | -6.7    |
| 1/17/2011 16:00                      | -7.6   | -8.3    | -8.9    | -8.7             | -8.2       | -8            | -7.2               | -7.6                 | -7.5              | -7.4              | -8           | -7.4           | -7.2    |
| 1/17/2011 17:00                      | -7.8   | -8.5    | -9      | -8.9             | -8.2       | -8            | -7.3               | -7.7                 | -7.8              | -7.8              | -8           | -7.7           | -7.7    |
| 1/17/2011 18:00                      | -9.8   | -10.5   | -10.4   | -10.3            | -10.5      | -9.4          | -8                 | -8.9                 | -9.5              | -9                | -9.4         | -9.6           | -9.6    |
| 1/17/2011 19:00                      | -9.3   | -10.2   | -10.8   | -10.8            | -12        | -10.2         | -8.2               | -12.2                | -11.2             | -9.5              | -10.2        | -10.7          | -12     |
| 1/17/2011 20:00                      | -9.2   | -9.8    | -10.5   | -10.8            | -11.3      | -9.9          | -8.7               | -13.3                | -10.5             | -10.2             | -9.9         | -11.2          | -12     |
| 1/17/2011 21:00                      | -8.8   | -10.8   | -9.9    | -9.8             | -9.9       | -10.3         | -10                | -12.2                | -8.7              | -9.7              | -10.3        | -11.5          | -11.3   |
| 1/17/2011 22:00                      | -10.1  | -10.2   | -9.6    | -7.8             | -8.4       | -9.3          | -9.9               | -11.8                | -6.8              | -6.6              | -9.3         | -11            | -8.7    |
| 1/17/2011 23:00                      | -7.7   | -8      | -5.9    | -4.7             | -4.8       | -6.2          | -9.9               | -11.1                | -4.3              | -4.3              | -6.2         | -9.8           | -5.7    |
| 1/18/2011 0:00                       | -6.7   | -5.4    | -4.3    | -3.3             | -3.1       | -3.7          | -8                 | -7.3                 | -3.7              | -4                | -3.7         | -7.1           | -4.5    |
| 1/18/2011 1:00                       | -6.9   | -3.5    | -2.9    | -2.5             | -1.9       | -2.2          | -3.5               | -3.4                 | -2.1              | -2.7              | -2.2         | -3.6           | -2.4    |
| <b>Potential Icewine Opportunity</b> |        |         |         |                  |            |               |                    |                      |                   |                   |              |                |         |
| 1/19/2011 17:00                      | -6.4   | -7.3    | -7.1    | -7.2             | -6.4       | -6.8          | -5.7               | -6.1                 | -6.5              | -6.6              | -6.8         | -6.1           | -6.5    |
| 1/19/2011 18:00                      | -6.7   | -7.7    | -7.5    | -7.4             | -6.7       | -7            | -6.2               | -6.5                 | -6.8              | -6.9              | -7           | -6.5           | -6.7    |
| 1/19/2011 19:00                      | -6.7   | -8      | -7.5    | -7.6             | -6.8       | -7.1          | -6.3               | -6.6                 | -7                | -7                | -7.1         | -6.7           | -6.8    |
| 1/19/2011 20:00                      | -6.7   | -7.7    | -7.4    | -7.5             | -6.7       | -6.9          | -6.1               | -6.6                 | -6.9              | -7                | -6.9         | -6.6           | -6.8    |
| 1/19/2011 21:00                      | -7.3   | -8.5    | -8.5    | -8.3             | -7.4       | -7.7          | -6.4               | -6.8                 | -7.3              | -7.4              | -7.7         | -6.8           | -6.9    |
| 1/19/2011 22:00                      | -8     | -9.2    | -9.3    | -9.2             | -8.3       | -8.4          | -7.4               | -7.8                 | -8.3              | -8.5              | -8.4         | -7.8           | -8.1    |
| 1/19/2011 23:00                      | -9.7   | -11     | -11.1   | -10.5            | -9.7       | -10           | -8.6               | -9.1                 | -9.7              | -9.8              | -10          | -8.9           | -9.1    |
| 1/20/2011 0:00                       | -10.8  | -12.7   | -12.3   | -11.7            | -11        | -11           | -10                | -10.7                | -11               | -10.9             | -11          | -10.5          | -10.5   |
| 1/20/2011 1:00                       | -11    | -12.6   | -12.5   | -12.2            | -11.5      | -11.6         | -10.7              | -11.2                | -11.7             | -12.1             | -11.6        | -11.1          | -11.2   |
| 1/20/2011 2:00                       | -11.6  | -14.1   | -13.6   | -12.5            | -11.6      | -11.6         | -11                | -11.3                | -11.5             | -12.1             | -11.6        | -11.3          | -11.3   |



Legend:

|  |                           |
|--|---------------------------|
|  | Icwine Temperatures       |
|  | Below Icwine Temperatures |



### Niagara West: Icewine Opportunities (6 Hour Minimum)

| Date & Time                   | Winona | Grimsby | Lincoln | Lincoln Fly Road | Beamsville | Lincoln Hwy 8 | Vineland Lakeshore | Vineland Cherry Ave. | Jordan Escarpment | Jordan Escarpment | Jordan Hwy 8 | Jordan Harbour | Rockway |
|-------------------------------|--------|---------|---------|------------------|------------|---------------|--------------------|----------------------|-------------------|-------------------|--------------|----------------|---------|
| 1/20/2011 3:00                | -12.3  | -15.5   | -14.2   | -12.7            | -12        | -11.6         | -11.8              | -11.5                | -12.5             | -13.1             | -11.6        | -12.2          | -11.9   |
| 1/20/2011 4:00                | -11.8  | -15.1   | -14.1   | -12.3            | -11.6      | -11           | -14.6              | -13                  | -12.4             | -14.5             | -11          | -13.2          | -13     |
| 1/20/2011 5:00                | -10.9  | -14.1   | -13.5   | -12.2            | -11.2      | -11.3         | -12.2              | -11.2                | -11.3             | -14               | -11.3        | -12.4          | -12.3   |
| 1/20/2011 6:00                | -11.3  | -15.8   | -13.6   | -12.5            | -11.4      | -11.5         | -11.3              | -10.9                | -11.4             | -13.8             | -11.5        | -11.2          | -12     |
| 1/20/2011 7:00                | -11.9  | -15.3   | -13.7   | -12.8            | -11.6      | -11.7         | -11.6              | -11.4                | -12.2             | -14.2             | -11.7        | -11.9          | -12.2   |
| 1/20/2011 8:00                | -11.9  | -14.1   | -13.5   | -12.8            | -11.7      | -11.8         | -11.3              | -11.8                | -11.9             | -12.1             | -11.8        | -11.5          | -11.5   |
| 1/20/2011 9:00                | -11.9  | -15.1   | -14     | -12.9            | -12        | -12           | -11.4              | -11.6                | -12.5             | -12.6             | -12          | -11.8          | -12     |
| 1/20/2011 10:00               | -10.5  | -12.7   | -12.3   | -11.6            | -11        | -10.1         | -9.5               | -9.7                 | -10.8             | -11.2             | -10.1        | -10            | -10.4   |
| 1/20/2011 11:00               | -8.6   | -10.4   | -9.9    | -9.3             | -9         | -8.8          | -7.9               | -8.5                 | -9                | -9.2              | -8.8         | -7.9           | -8.6    |
| 1/20/2011 12:00               | -7.3   | -8.3    | -7.6    | -7.4             | -7         | -7.4          | -6.3               | -6.9                 | -7.4              | -8                | -7.4         | -6.5           | -7.5    |
| 1/20/2011 13:00               | -5.9   | -7.1    | -7.1    | -6.8             | -6.2       | -6.4          | -5.5               | -6.3                 | -6.4              | -7                | -6.4         | -5.9           | -6.5    |
| 1/20/2011 14:00               | -5.3   | -6.5    | -6.5    | -6.4             | -5.7       | -5.8          | -5                 | -5.9                 | -5.8              | -6.3              | -5.8         | -5.2           | -5.6    |
| Potential Icewine Opportunity |        |         |         |                  |            |               |                    |                      |                   |                   |              |                |         |
| 1/20/2011 16:00               | -6     | -7.2    | -7.3    | -6.9             | -6.3       | -6.6          | -5.5               | -6                   | -6.4              | -6.8              | -6.6         | -5.9           | -6.2    |
| 1/20/2011 17:00               | -6.7   | -7.8    | -7.7    | -7.6             | -6.8       | -7.1          | -6.3               | -6.6                 | -7.1              | -7.3              | -7.1         | -6.7           | -7      |
| 1/20/2011 18:00               | -7.3   | -8.3    | -8.2    | -8.3             | -7.4       | -7.7          | -6.9               | -7.2                 | -7.6              | -7.7              | -7.7         | -7.4           | -7.5    |
| 1/20/2011 19:00               | -7.4   | -8.5    | -8.4    | -8.5             | -7.7       | -7.9          | -7.1               | -7.4                 | -7.9              | -8.1              | -7.9         | -7.6           | -7.8    |
| 1/20/2011 20:00               | -7.5   | -8.6    | -8.6    | -8.6             | -7.8       | -7.9          | -7.4               | -7.5                 | -8                | -8.2              | -7.9         | -7.7           | -7.9    |
| 1/20/2011 21:00               | -7.7   | -8.8    | -8.7    | -8.7             | -7.9       | -8            | -7.4               | -7.6                 | -8.1              | -8.3              | -8           | -7.8           | -8      |
| 1/20/2011 22:00               | -7.8   | -8.8    | -8.7    | -8.8             | -8         | -8.1          | -7.5               | -7.7                 | -8.1              | -8.4              | -8.1         | -7.9           | -8.1    |
| 1/20/2011 23:00               | -7.8   | -8.8    | -8.7    | -8.8             | -8.1       | -8.1          | -7.6               | -7.8                 | -8.2              | -8.4              | -8.1         | -8             | -8.2    |
| 1/21/2011 0:00                | -7.9   | -8.8    | -8.8    | -8.8             | -8.1       | -8.2          | -7.6               | -7.8                 | -8.2              | -8.3              | -8.2         | -8             | -8.2    |
| 1/21/2011 1:00                | -7.9   | -8.8    | -8.7    | -8.8             | -8.1       | -8.2          | -7.6               | -7.9                 | -8.2              | -8.4              | -8.2         | -8             | -8.1    |
| 1/21/2011 2:00                | -7.9   | -8.9    | -8.8    | -8.7             | -8         | -8.1          | -7.6               | -7.8                 | -8.1              | -8.4              | -8.1         | -8             | -8.2    |
| 1/21/2011 3:00                | -7.5   | -8.9    | -8.9    | -8.8             | -8         | -8.1          | -7.6               | -7.7                 | -8.2              | -8.4              | -8.1         | -7.9           | -8.1    |
| 1/21/2011 4:00                | -7.5   | -8.7    | -8.9    | -8.9             | -8         | -8            | -7.4               | -7.6                 | -8.2              | -8.5              | -8           | -7.9           | -8.1    |
| 1/21/2011 5:00                | -7.5   | -8.7    | -8.9    | -8.9             | -8         | -7.9          | -7.4               | -7.6                 | -8.2              | -8.4              | -7.9         | -8             | -7.9    |
| 1/21/2011 6:00                | -7.2   | -8.4    | -8.5    | -8.6             | -7.7       | -7.7          | -7.1               | -7.3                 | -8                | -8.2              | -7.7         | -7.5           | -7.7    |
| 1/21/2011 7:00                | -6.9   | -7.9    | -7.9    | -8               | -7.2       | -7.2          | -6.6               | -6.7                 | -7.3              | -7.5              | -7.2         | -6.9           | -7.2    |
| 1/21/2011 8:00                | -7.6   | -8.5    | -8.6    | -8.4             | -7.7       | -7.9          | -6.8               | -7.1                 | -7.6              | -7.8              | -7.9         | -7.2           | -7.3    |
| 1/21/2011 9:00                | -9.1   | -10.1   | -10     | -9.7             | -9         | -9.1          | -8                 | -8.6                 | -9                | -9.2              | -9.1         | -8.3           | -8.6    |
| 1/21/2011 10:00               | -8.8   | -9.9    | -10.1   | -9.9             | -9.1       | -9.1          | -8.3               | -8.9                 | -9.3              | -9.7              | -9.1         | -8.7           | -9.1    |
| 1/21/2011 11:00               | -7.5   | -8.5    | -9.3    | -9.3             | -8.3       | -8.1          | -7.6               | -8.2                 | -8.6              | -9                | -8.1         | -8.1           | -8.5    |
| 1/21/2011 12:00               | -6.8   | -7.6    | -8.7    | -8.8             | -7.5       | -7.2          | -6.4               | -7.5                 | -8                | -8.3              | -7.2         | -7.3           | -8      |
| 1/21/2011 13:00               | -6.9   | -7.2    | -8.5    | -7.9             | -6.4       | -6.8          | -6.1               | -7                   | -7                | -7.2              | -6.8         | -6.2           | -6.7    |
| 1/21/2011 14:00               | -7     | -7.5    | -8.6    | -8.6             | -6.9       | -7            | -6.3               | -7.1                 | -7.3              | -7.9              | -7           | -6.3           | -7.2    |
| 1/21/2011 15:00               | -8.1   | -8.8    | -9      | -8.6             | -7.1       | -8.2          | -7.1               | -7.8                 | -7.8              | -8.4              | -8.2         | -7.3           | -7.6    |
| 1/21/2011 16:00               | -8.4   | -9.5    | -10     | -9.9             | -8.8       | -9            | -8                 | -8.7                 | -9                | -9                | -9           | -8.3           | -8.7    |



Legend:

|  |                           |
|--|---------------------------|
|  | Icwine Temperatures       |
|  | Below Icwine Temperatures |



### Niagara West: Icewine Opportunities (6 Hour Minimum)

| Date & Time     | Winona | Grimsby | Lincoln | Lincoln Fly Road | Beamsville | Lincoln Hwy 8 | Vineland Lakeshore | Vineland Cherry Ave. | Jordan Escarpment | Jordan Escarpment | Jordan Hwy 8 | Jordan Harbour | Rockway |
|-----------------|--------|---------|---------|------------------|------------|---------------|--------------------|----------------------|-------------------|-------------------|--------------|----------------|---------|
| 1/21/2011 17:00 | -9.6   | -10.5   | -10.8   | -10.5            | -9.6       | -10           | -8.7               | -9.3                 | -9.8              | -10.1             | -10          | -8.9           | -9.5    |
| 1/21/2011 18:00 | -10.6  | -11.6   | -11.8   | -11.7            | -10.9      | -11           | -10.1              | -10.4                | -11.1             | -11.2             | -11          | -10.6          | -10.8   |
| 1/21/2011 19:00 | -11.3  | -12.6   | -12.7   | -12.6            | -11.8      | -11.9         | -10.9              | -11.3                | -11.9             | -12.1             | -11.9        | -11.4          | -11.6   |
| 1/21/2011 20:00 | -12.2  | -13.5   | -13.3   | -13.3            | -12.6      | -12.6         | -11.7              | -11.9                | -12.6             | -12.8             | -12.6        | -12.1          | -12.4   |
| 1/21/2011 21:00 | -12.5  | -13.8   | -13.6   | -13.7            | -12.9      | -13           | -12.1              | -12.3                | -13               | -13.3             | -13          | -12.5          | -12.8   |
| 1/21/2011 22:00 | -12.9  | -14.5   | -14.2   | -14.3            | -13.3      | -13.4         | -12.5              | -12.8                | -13.4             | -13.7             | -13.4        | -12.9          | -13.3   |
| 1/21/2011 23:00 | -12.8  | -14.5   | -14.3   | -14.5            | -13.5      | -13.5         | -12.6              | -12.9                | -13.4             | -14               | -13.5        | -13            | -13.5   |
| 1/22/2011 0:00  | -13.3  | -14.8   | -14.6   | -14.8            | -13.8      | -13.8         | -13                | -13                  | -13.8             | -14.2             | -13.8        | -13.3          | -13.9   |
| 1/22/2011 1:00  | -13.7  | -15.3   | -15.1   | -15.1            | -14        | -14.1         | -13.1              | -13.2                | -14               | -14.5             | -13.3        | -13.4          | -14.1   |
| 1/22/2011 2:00  | -13.8  | -16.3   | -15.6   | -15.5            | -14.4      | -14.4         | -13.3              | -13.3                | -14.3             | -15               | -13.5        | -13.4          | -14.4   |
| 1/22/2011 3:00  | -14.1  | -17.3   | -16.2   | -15.9            | -14.6      | -14.7         | -13.5              | -13.4                | -14.7             | -15.5             | -14.1        | -13.6          | -15.1   |
| 1/22/2011 4:00  | -14.6  | -18.6   | -16.9   | -16.2            | -15.1      | -15           | -14                | -14                  | -15.1             | -16               | -14.3        | -13.7          | -15.5   |
| 1/22/2011 5:00  | -15    | -17.8   | -17.3   | -16.6            | -15.4      | -15.2         | -14.3              | -14.1                | -15.6             | -16.4             | -14.9        | -14.5          | -15.8   |
| 1/22/2011 6:00  | -14.3  | -17.2   | -16.8   | -16.4            | -15.4      | -15.3         | -14                | -13.6                | -15.1             | -15.9             | -14.7        | -14.1          | -15.5   |
| 1/22/2011 7:00  | -14.2  | -17.3   | -16.7   | -15.9            | -15.1      | -14.7         | -13.7              | -12.9                | -15.3             | -15.2             | -14.4        | -13.6          | -14.8   |
| 1/22/2011 8:00  | -14.1  | -16.1   | -15.7   | -15.2            | -14.4      | -14.4         | -13.4              | -12.9                | -14.5             | -14.6             | -13.7        | -13.3          | -14.1   |
| 1/22/2011 9:00  | -13.5  | -14.7   | -14.5   | -14.3            | -13.5      | -13.3         | -12.6              | -12.3                | -13.5             | -13.7             | -12.7        | -12.5          | -13.2   |
| 1/22/2011 10:00 | -12.2  | -13     | -12.8   | -12.5            | -11.7      | -11.9         | -10.9              | -11.5                | -11.9             | -12               | -11.1        | -11.3          | -11.5   |
| 1/22/2011 11:00 | -11.1  | -12.1   | -11.7   | -11.5            | -10.5      | -10.8         | -10.1              | -10.6                | -10.7             | -11               | -10.2        | -10.2          | -10.3   |
| 1/22/2011 12:00 | -10.2  | -11.5   | -11.2   | -10.9            | -10.1      | -10.4         | -9.8               | -10.3                | -10.4             | -10.4             | -9.8         | -10            | -9.9    |
| 1/22/2011 13:00 | -9.2   | -10.4   | -10.2   | -9.7             | -8.9       | -9.1          | -8.6               | -9.6                 | -9.5              | -9.7              | -9           | -8.8           | -9.1    |
| 1/22/2011 14:00 | -8.9   | -10.1   | -9.9    | -9.3             | -8.6       | -8.8          | -8.4               | -9                   | -9.1              | -9.2              | -8.4         | -8.7           | -8.5    |
| 1/22/2011 15:00 | -9.1   | -10.1   | -10     | -9.4             | -8.9       | -8.8          | -8.4               | -8.8                 | -9.1              | -9.5              | -8.4         | -8.7           | -8.8    |
| 1/22/2011 16:00 | -9     | -10     | -10     | -9.9             | -9         | -9.1          | -8.6               | -8.9                 | -9.5              | -9.7              | -8.6         | -9.2           | -9.1    |
| 1/22/2011 17:00 | -9.4   | -10.4   | -10.2   | -10.1            | -9.3       | -9.5          | -8.8               | -9.1                 | -9.5              | -9.8              | -8.9         | -9.3           | -9.4    |
| 1/22/2011 18:00 | -9.8   | -10.6   | -10.4   | -10.4            | -9.7       | -9.9          | -9.2               | -9.4                 | -9.8              | -9.9              | -9.1         | -9.5           | -9.6    |
| 1/22/2011 19:00 | -9.7   | -10.7   | -10.5   | -10.4            | -9.8       | -9.9          | -9.4               | -9.5                 | -9.8              | -9.8              | -9.2         | -9.6           | -9.6    |
| 1/22/2011 20:00 | -9.6   | -10.5   | -10.2   | -10.4            | -9.7       | -9.8          | -9.5               | -9.6                 | -9.8              | -9.7              | -9.2         | -9.8           | -9.6    |
| 1/22/2011 21:00 | -9.3   | -10.2   | -9.9    | -10              | -9.3       | -9.4          | -9                 | -9                   | -9.4              | -9.4              | -9           | -9.5           | -9.3    |
| 1/22/2011 22:00 | -9.6   | -10.3   | -10.1   | -10.1            | -9.5       | -9.6          | -9                 | -9                   | -9.5              | -9.4              | -8.9         | -9.3           | -9.2    |
| 1/22/2011 23:00 | -10.1  | -11.1   | -11     | -11              | -10.3      | -10.4         | -9.6               | -9.9                 | -10.4             | -10.4             | -9.7         | -10            | -10.1   |
| 1/23/2011 0:00  | -10.6  | -11.7   | -11.6   | -11.6            | -10.8      | -10.9         | -10.1              | -10.4                | -10.9             | -10.9             | -10.1        | -10.6          | -10.7   |
| 1/23/2011 1:00  | -10.9  | -12.1   | -12.2   | -12.1            | -11.3      | -11.1         | -10.4              | -10.8                | -11.5             | -11.5             | -10.6        | -11            | -11.1   |
| 1/23/2011 2:00  | -11.6  | -12.8   | -12.7   | -12.2            | -11.5      | -11.5         | -10.4              | -10.8                | -11.4             | -11.5             | -10.6        | -10.8          | -11.2   |
| 1/23/2011 3:00  | -11.3  | -12.6   | -12.8   | -12.4            | -11.6      | -11.5         | -10.4              | -11                  | -11.4             | -11.6             | -10.6        | -11            | -11.2   |
| 1/23/2011 4:00  | -10.3  | -11.6   | -12.6   | -11.8            | -10.9      | -10.4         | -9.1               | -10                  | -11.1             | -11.4             | -10.4        | -9.9           | -11.1   |
| 1/23/2011 5:00  | -10.5  | -11.2   | -12.3   | -10.7            | -9.9       | -9.8          | -8.9               | -9.3                 | -10               | -11.2             | -9.2         | -9.3           | -10.5   |
| 1/23/2011 6:00  | -11.5  | -11.9   | -11.3   | -11              | -10.4      | -10.8         | -9.4               | -9.7                 | -10.2             | -10.2             | -9.4         | -9.7           | -9.8    |



Legend:

|  |                           |
|--|---------------------------|
|  | Icwine Temperatures       |
|  | Below Icwine Temperatures |



### Niagara West: Icewine Opportunities (6 Hour Minimum)

| Date & Time     | Winona | Grimsby | West Lincoln | Lincoln Fly Road | Beamsville | Lincoln Hwy 8 | Vineland Lakeshore | Vineland Cherry Ave. | Jordan Escarpment | Jordan Escarpment | Jordan Hwy 8 | Jordan Harbour | Rockway |
|-----------------|--------|---------|--------------|------------------|------------|---------------|--------------------|----------------------|-------------------|-------------------|--------------|----------------|---------|
| 1/23/2011 7:00  | -12.4  | -13     | -12.6        | -12.5            | -11.9      | -12.3         | -11                | -11.3                | -11.6             | -11.2             | -10.6        | -11            | -10.9   |
| 1/23/2011 8:00  | -13.6  | -14.3   | -13.8        | -13.8            | -13.2      | -13.7         | -12.6              | -12.8                | -13.1             | -13               | -12.3        | -12.7          | -12.6   |
| 1/23/2011 9:00  | -14.9  | -15.7   | -15.3        | -15.1            | -14.5      | -14.8         | -13.8              | -14                  | -14.4             | -14.4             | -13.7        | -13.8          | -14     |
| 1/23/2011 10:00 | -15.6  | -16.2   | -15.5        | -15.7            | -15.1      | -15.2         | -14.4              | -14.6                | -14.9             | -14.9             | -14.2        | -14.4          | -14.5   |
| 1/23/2011 11:00 | -15.6  | -16.1   | -15.5        | -15.8            | -15        | -15.2         | -14.5              | -14.6                | -14.8             | -14.8             | -14.3        | -14.1          | -14.6   |
| 1/23/2011 12:00 | -15.2  | -16.1   | -14.9        | -15.9            | -15        | -15.2         | -14.7              | -14.9                | -15.1             | -14.5             | -14.2        | -13.6          | -14.4   |
| 1/23/2011 13:00 | -14.7  | -15.7   | -14.6        | -15.6            | -14.9      | -14.6         | -14.5              | -14.9                | -14.5             | -14.7             | -14.5        | -13.6          | -14.3   |
| 1/23/2011 14:00 | -14.1  | -15     | -14.3        | -15.4            | -14.5      | -13.9         | -14.3              | -14.4                | -14.2             | -14.7             | -14.4        | -13.5          | -14.8   |
| 1/23/2011 15:00 | -13.1  | -14.3   | -14.1        | -15.1            | -14.1      | -14           | -13.7              | -14                  | -14               | -14.7             | -14.4        | -12.9          | -14.8   |
| 1/23/2011 16:00 | -12.3  | -13.6   | -13.4        | -14.4            | -14.1      | -12.9         | -13.2              | -13.5                | -13.4             | -14.3             | -14.1        | -12.2          | -14.7   |
| 1/23/2011 17:00 | -13.9  | -14.8   | -14.7        | -14.1            | -13.8      | -13.9         | -13.1              | -13.3                | -13.9             | -15.1             | -13.5        | -13.2          | -13.3   |
| 1/23/2011 18:00 | -15.9  | -18.4   | -18.5        | -18.4            | -16.9      | -16.9         | -15                | -16.1                | -17.1             | -18.8             | -16          | -15.4          | -17.3   |
| 1/23/2011 19:00 | -16.6  | -21.5   | -19.7        | -19.1            | -18.6      | -17.4         | -17.2              | -18.4                | -19.5             | -20.3             | -19.3        | -17.9          | -19     |
| 1/23/2011 20:00 | -18.4  | -21.1   | -20.2        | -18.8            | -19        | -18.1         | -18.3              | -19.9                | -20.1             | -23.3             | -21.5        | -18.8          | -20.3   |
| 1/23/2011 21:00 | -17.7  | -22.7   | -22          | -19              | -18.2      | -17.9         | -17.3              | -18.3                | -20.5             | -23.9             | -21.3        | -18.5          | -20.6   |
| 1/23/2011 22:00 | -17.1  | -21.5   | -21.5        | -19.2            | -17.9      | -17.9         | -16.3              | -16.1                | -19.2             | -20.5             | -17.7        | -17.5          | -18.1   |
| 1/23/2011 23:00 | -17    | -19.1   | -19.5        | -18.3            | -17.2      | -17.1         | -16.1              | -16.6                | -17.6             | -18.7             | -17.2        | -16.9          | -18     |
| 1/24/2011 0:00  | -16.7  | -18.3   | -19          | -17.6            | -16.5      | -16.2         | -15.3              | -16                  | -16.2             | -18.8             | -16.3        | -16.2          | -18.2   |
| 1/24/2011 1:00  | -17.4  | -20.4   | -19.5        | -18              | -16.7      | -17           | -14.9              | -15.8                | -16.7             | -20.2             | -16.9        | -15.9          | -18.6   |
| 1/24/2011 2:00  | -19.3  | -23.3   | -21.1        | -19.1            | -19.1      | -18.6         | -15.7              | -16.4                | -17.8             | -21.8             | -18.9        | -16.4          | -19.2   |
| 1/24/2011 3:00  | -19.9  | -23.8   | -21.7        | -18.9            | -19.1      | -19.5         | -16.7              | -19.5                | -19.4             | -22.6             | -20          | -18.1          | -20     |
| 1/24/2011 4:00  | -19.6  | -25     | -23.3        | -21.8            | -20.2      | -19.6         | -17.4              | -19.2                | -20.5             | -22.2             | -20.2        | -19            | -19.9   |
| 1/24/2011 5:00  | -19.4  | -26.2   | -23.9        | -21.7            | -19.3      | -20.3         | -17.9              | -17.7                | -19.7             | -21.3             | -18.8        | -18.6          | -18.8   |
| 1/24/2011 6:00  | -19.7  | -26.7   | -23.4        | -20.5            | -18        | -17.9         | -16.5              | -16.6                | -18.9             | -21.9             | -18.9        | -17.9          | -18.8   |
| 1/24/2011 7:00  | -21.7  | -27.1   | -23.5        | -21.2            | -18.8      | -18.2         | -17.7              | -17.8                | -20.1             | -23.3             | -20.9        | -19.6          | -20.5   |
| 1/24/2011 8:00  | -21.5  | -27.9   | -22.2        | -20.9            | -19        | -18.1         | -18.9              | -18.2                | -20.2             | -23.2             | -22.5        | -20.1          | -21.3   |
| 1/24/2011 9:00  | -19.2  | -24.2   | -19.7        | -18.8            | -18        | -16.5         | -17.9              | -18.5                | -18.4             | -20.5             | -20.7        | -19.2          | -18.7   |
| 1/24/2011 10:00 | -15.4  | -17.2   | -17.8        | -16.5            | -16        | -14.5         | -15.5              | -15.4                | -15.9             | -17.8             | -15.9        | -16.2          | -16     |
| 1/24/2011 11:00 | -13.7  | -13.6   | -15.1        | -13.8            | -13.8      | -12.6         | -12.8              | -13.1                | -13.4             | -14.6             | -13.1        | -13.6          | -13.3   |
| 1/24/2011 12:00 | -11.3  | -11.1   | -12.8        | -12.2            | -11.6      | -11.2         | -11                | -11.8                | -11.3             | -12.4             | -11.6        | -12.1          | -10.9   |
| 1/24/2011 13:00 | -9.9   | -10.1   | -11.7        | -11              | -10.1      | -10.5         | -10                | -10.6                | -10.3             | -11.2             | -10.5        | -10.3          | -10.1   |
| 1/24/2011 14:00 | -9.4   | -9.9    | -10.8        | -10.2            | -9.5       | -9.8          | -9.6               | -10                  | -9.8              | -10.5             | -9.8         | -9.6           | -9.4    |
| 1/24/2011 15:00 | -9     | -9.2    | -10.1        | -9.7             | -8.9       | -9.6          | -8.8               | -9                   | -9.1              | -9.5              | -8.8         | -8.8           | -8.5    |
| 1/24/2011 16:00 | -9.2   | -9.4    | -9.8         | -9.7             | -8.8       | -9.3          | -8.5               | -8.8                 | -8.9              | -9.4              | -8.7         | -8.8           | -8.7    |
| 1/24/2011 17:00 | -9     | -9.8    | -9.8         | -9.7             | -9         | -9.2          | -8.4               | -8.5                 | -8.8              | -8.9              | -8.2         | -8.5           | -8.4    |
| 1/24/2011 18:00 | -10    | -10.7   | -10.5        | -10.4            | -9.8       | -10           | -8.9               | -9.1                 | -9.6              | -9.6              | -8.9         | -9.2           | -9.4    |
| 1/24/2011 19:00 | -9.7   | -10.4   | -10.2        | -10.2            | -9.6       | -9.8          | -9.2               | -9.7                 | -9.8              | -9.9              | -9.6         | -10.2          | -10     |
| 1/24/2011 20:00 | -9.3   | -10.3   | -10.4        | -10.9            | -10.4      | -10.2         | -9.4               | -10.2                | -10.5             | -10.5             | -10.1        | -10.6          | -10.4   |



Legend:

|  |                           |
|--|---------------------------|
|  | Icwine Temperatures       |
|  | Below Icwine Temperatures |



### Niagara West: Icewine Opportunities (6 Hour Minimum)

| Date & Time     | Winona | Grimsby | Lincoln | Lincoln Fly Road | Beamsville | Lincoln Hwy 8 | Vineland Lakeshore | Vineland Cherry Ave. | Jordan Escarpment | Jordan Escarpment | Jordan Hwy 8 | Jordan Harbour | Rockway |
|-----------------|--------|---------|---------|------------------|------------|---------------|--------------------|----------------------|-------------------|-------------------|--------------|----------------|---------|
| 1/24/2011 21:00 | -9.2   | -10.4   | -10.8   | -11              | -10.4      | -10.2         | -9.4               | -10.2                | -10.5             | -10.5             | -10          | -10.4          | -10.5   |
| 1/24/2011 22:00 | -9.1   | -10.3   | -10.6   | -10.8            | -10.3      | -10.2         | -9.4               | -10                  | -10.4             | -10.4             | -9.9         | -10.2          | -10.3   |
| 1/24/2011 23:00 | -8.8   | -10     | -10.3   | -10.4            | -9.7       | -9.9          | -9.5               | -9.8                 | -9.9              | -10.1             | -9.6         | -9.9           | -10     |
| 1/25/2011 0:00  | -8.6   | -9.5    | -9.5    | -9.6             | -8.9       | -9.3          | -9.1               | -9.2                 | -9                | -9                | -9.1         | -9.5           | -9.4    |
| 1/25/2011 1:00  | -7.6   | -8.2    | -7.9    | -7.7             | -7         | -7.2          | -8.1               | -7.8                 | -7.1              | -6.4              | -7.4         | -7.9           | -6.6    |
| 1/25/2011 2:00  | -5.4   | -6.3    | -6.3    | -5.6             | -4.9       | -5            | -4.8               | -3.9                 | -4.8              | -4.3              | -4           | -4.6           | -3.8    |
| 1/25/2011 3:00  | -4.2   | -4.9    | -4.7    | -4.1             | -3.7       | -3.8          | -3.1               | -2.7                 | -3.3              | -3.1              | -2.8         | -3             | -3      |

#### Potential Icewine Opportunity

|                 |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1/30/2011 18:00 | -5.3  | -6.3  | -7.9  | -6.9  | -6.2  | -6    | -4.5  | -5.5  | -6.2  | -6.5  | -5    | -4.9  | -5.7  |
| 1/30/2011 19:00 | -6.5  | -7.6  | -8.3  | -8.1  | -6.7  | -6.7  | -5.6  | -6.3  | -6.7  | -7.7  | -5.7  | -6.4  | -6.9  |
| 1/30/2011 20:00 | -8    | -8.9  | -9.4  | -8.6  | -7.6  | -7.7  | -6.4  | -7    | -7.6  | -7.9  | -7    | -7.2  | -7.4  |
| 1/30/2011 21:00 | -9    | -10.1 | -11   | -10   | -8.8  | -8.4  | -7.1  | -7.8  | -8.4  | -8.8  | -7.9  | -7.8  | -8.2  |
| 1/30/2011 22:00 | -9.2  | -10.3 | -12.8 | -9.5  | -8.6  | -8.8  | -7.4  | -7.9  | -8.4  | -8.3  | -7.5  | -7.8  | -8    |
| 1/30/2011 23:00 | -9.7  | -10.9 | -12.4 | -10.2 | -9.4  | -9.3  | -8.5  | -9.1  | -9.6  | -9.5  | -8.8  | -9.5  | -9.2  |
| 1/31/2011 0:00  | -10.2 | -11.3 | -11.4 | -11   | -10.2 | -10   | -8.9  | -9.7  | -10.6 | -10.4 | -9.4  | -9.4  | -9.8  |
| 1/31/2011 1:00  | -11.1 | -11.8 | -12.1 | -11.1 | -10.3 | -10.1 | -9.4  | -10   | -10.9 | -10.5 | -9.8  | -9.9  | -10.3 |
| 1/31/2011 2:00  | -11.4 | -11.8 | -12   | -11.7 | -10.7 | -10.8 | -9.9  | -10.4 | -11.5 | -11   | -10.2 | -10.3 | -10.5 |
| 1/31/2011 3:00  | -11.5 | -12.4 | -12.7 | -12   | -11.1 | -11.3 | -10.2 | -10.6 | -11.4 | -10.9 | -10.2 | -10.5 | -11.2 |
| 1/31/2011 4:00  | -11.9 | -12.8 | -13.3 | -12.7 | -12.3 | -11.7 | -11   | -11.6 | -13.1 | -12.3 | -11.8 | -11.5 | -12.7 |
| 1/31/2011 5:00  | -12.3 | -13.1 | -13.5 | -13.3 | -12.5 | -12.1 | -11.3 | -11.9 | -13.5 | -12.4 | -11.7 | -11.7 | -12.5 |
| 1/31/2011 6:00  | -12.5 | -13.1 | -13.8 | -13.6 | -13.1 | -12.3 | -11.6 | -12.3 | -13.5 | -12.6 | -11.6 | -11.8 | -12.8 |
| 1/31/2011 7:00  | -12.5 | -13.6 | -14.3 | -13.8 | -13.3 | -12.6 | -11.5 | -12   | -13.7 | -12.7 | -11.8 | -11.6 | -13.1 |
| 1/31/2011 8:00  | -12.5 | -13.4 | -13.6 | -13.1 | -12.5 | -12.2 | -11.4 | -11.6 | -12.2 | -12.7 | -11.6 | -11.6 | -13.4 |
| 1/31/2011 9:00  | -11.6 | -12.5 | -12.5 | -12.2 | -11.7 | -11.4 | -10.7 | -10.8 | -11.1 | -11.8 | -10.7 | -10.7 | -11.9 |
| 1/31/2011 10:00 | -10.9 | -11.5 | -11.3 | -11   | -10.5 | -10.4 | -9.7  | -10   | -10.6 | -10.9 | -10.4 | -9.9  | -9.9  |
| 1/31/2011 11:00 | -9.9  | -10.5 | -10.5 | -10.4 | -9.6  | -9.9  | -9.5  | -9.6  | -9.9  | -10.4 | -9.8  | -9.9  | -9.4  |
| 1/31/2011 12:00 | -9.1  | -9.4  | -9.5  | -9.4  | -8.5  | -9.4  | -8.7  | -8.8  | -9.1  | -9.7  | -8.9  | -8.5  | -8.4  |
| 1/31/2011 13:00 | -8.7  | -7.6  | -9.5  | -9.3  | -8.1  | -8.4  | -7.9  | -8.4  | -8.5  | -9.2  | -8.6  | -7.5  | -7.9  |
| 1/31/2011 14:00 | -8    | -8    | -9.2  | -9    | -8    | -8.1  | -7.8  | -8.2  | -8.2  | -8.7  | -8.3  | -7.4  | -7.9  |
| 1/31/2011 15:00 | -7.9  | -8.5  | -9.3  | -9.2  | -8.4  | -8.5  | -7.9  | -8.3  | -8.3  | -8.9  | -8.3  | -7.9  | -8.3  |
| 1/31/2011 16:00 | -7.8  | -9.2  | -9.7  | -9.7  | -8.8  | -8.6  | -8.2  | -8.5  | -8.5  | -9.1  | -8.5  | -8.5  | -8.8  |
| 1/31/2011 17:00 | -8    | -9.4  | -9.8  | -10   | -9.1  | -8.8  | -8.4  | -8.8  | -9.2  | -9.5  | -9    | -9    | -9.3  |
| 1/31/2011 18:00 | -8    | -9.6  | -10.4 | -10.6 | -9.8  | -9.2  | -8.6  | -9.4  | -9.8  | -10.1 | -9.6  | -9.7  | -10   |
| 1/31/2011 19:00 | -7.9  | -9.8  | -10.4 | -10.6 | -9.9  | -9.3  | -8.7  | -9.4  | -10   | -10.3 | -9.6  | -9.7  | -10.1 |
| 1/31/2011 20:00 | -8.1  | -10   | -10.3 | -10.5 | -9.7  | -9.5  | -8.6  | -9.3  | -9.9  | -10.2 | -9.5  | -9.6  | -10   |
| 1/31/2011 21:00 | -8.7  | -10.1 | -10.2 | -10.3 | -9.5  | -9.3  | -8.3  | -9.1  | -9.7  | -9.8  | -9.2  | -9.3  | -9.7  |
| 1/31/2011 22:00 | -7.8  | -9.7  | -10   | -10.2 | -9.4  | -9.1  | -8.3  | -9    | -9.6  | -9.8  | -9.2  | -9.3  | -9.7  |
| 1/31/2011 23:00 | -8    | -9.8  | -10.2 | -10.4 | -9.6  | -9.3  | -8.6  | -9.3  | -9.7  | -9.9  | -9.3  | -9.5  | -9.9  |



Legend:

|  |                            |
|--|----------------------------|
|  | Icewine Temperatures       |
|  | Below Icewine Temperatures |



Potential Icewine Harvest Opportunities for Niagara East:

| <b>Niagara East: Icewine Opportunities (6 Hour Minimum)</b> |                                 |                                 |                                     |                        |                          |                        |               |                         |                          |                  |      |      |       |
|---|---------------------------------|---------------------------------|-------------------------------------|------------------------|--------------------------|------------------------|---------------|-------------------------|--------------------------|------------------|------|------|-------|
| <b>Date &amp; Time</b>                                      | <b>St. Catharines Glass Ave</b> | <b>St. Catharines Third Ave</b> | <b>West St. Catharines Fifth St</b> | <b>Niagara College</b> | <b>St. David's Bench</b> | <b>Niagara Airport</b> | <b>Virgil</b> | <b>NOTL Irvine Road</b> | <b>Lakeshore Parkway</b> | <b>Queenston</b> |      |      |       |
| <b>Potential Icewine Opportunity</b>                        |                                 |                                 |                                     |                        |                          |                        |               |                         |                          |                  |      |      |       |
| 1/5/2011 20:00  | -6.1                            | -5.9                            | -6.3                                | -5.9                   | -5.6                     | -5.8                   | -5.5          | -5.3                    | -5.5                     | -5.5             | -5.1 | -5.2 | -5.6  |
| 1/5/2011 21:00  | -6.7                            | -6.8                            | -7.5                                | -7.1                   | -6.4                     | -6.3                   | -6.1          | -5.8                    | -6                       | -6.1             | -5.7 | -5.4 | -5.9  |
| 1/5/2011 22:00  | -7.3                            | -7.5                            | -8.3                                | -8.2                   | -7.2                     | -7.2                   | -7.2          | -7.1                    | -7.3                     | -7               | -6.5 | -6.7 | -6.9  |
| 1/5/2011 23:00  | -7.7                            | -7.9                            | -8.4                                | -8.5                   | -7.6                     | -7.5                   | -7.5          | -7.4                    | -7.6                     | -7.4             | -7   | -7.3 | -7.3  |
| 1/6/2011 0:00   | -7.6                            | -7.9                            | -8.4                                | -8.3                   | -7.5                     | -7.4                   | -7.5          | -7.3                    | -7.6                     | -7.4             | -6.9 | -7.3 | -7.2  |
| 1/6/2011 1:00   | -7.8                            | -8.1                            | -8.4                                | -8.3                   | -7.6                     | -7.6                   | -7.7          | -7.5                    | -7.5                     | -7.5             | -7.1 | -7.3 | -7.4  |
| 1/6/2011 2:00   | -8.2                            | -8.3                            | -8.7                                | -8.8                   | -7.6                     | -7.8                   | -7.9          | -7.6                    | -7.6                     | -7.8             | -7.5 | -7.6 | -7.4  |
| 1/6/2011 3:00   | -8.4                            | -8.7                            | -9.2                                | -9.2                   | -7.8                     | -8                     | -8            | -7.7                    | -7.9                     | -7.9             | -7.6 | -7.8 | -7.7  |
| 1/6/2011 4:00   | -8.5                            | -8.9                            | -9.3                                | -9.1                   | -8.4                     | -8.7                   | -8.2          | -8.3                    | -8                       | -7.9             | -7.6 | -7.7 | -7.8  |
| 1/6/2011 5:00   | -8.4                            | -8.8                            | -9.2                                | -9.1                   | -8.5                     | -8.6                   | -8.4          | -8.3                    | -8                       | -7.9             | -7.5 | -7.8 | -7.5  |
| 1/6/2011 6:00   | -7.9                            | -8.6                            | -8.5                                | -8.5                   | -8.3                     | -8.3                   | -8.1          | -8                      | -7.5                     | -7.6             | -7.4 | -7.4 | -7.1  |
| 1/6/2011 7:00   | -7.3                            | -7.8                            | -7.8                                | -8                     | -7.5                     | -7.6                   | -7.5          | -7.4                    | -7.1                     | -7.4             | -7.2 | -7   | -6.7  |
| 1/6/2011 8:00   | -7.2                            | -7.4                            | -7.7                                | -7.8                   | -7                       | -7.3                   | -7.1          | -6.9                    | -6.8                     | -7.1             | -6.8 | -6.7 | -6.3  |
| 1/6/2011 9:00   | -6.6                            | -6.8                            | -7.2                                | -6.8                   | -6.2                     | -6.3                   | -6.4          | -6                      | -6.1                     | -6.5             | -6.3 | -6.1 | -5.9  |
| <b>Potential Icewine Opportunity</b>                        |                                 |                                 |                                     |                        |                          |                        |               |                         |                          |                  |      |      |       |
| 1/8/2011 20:00  | -4.7                            | -5.1                            | -5.5                                | -5.9                   | -5.7                     | -6.2                   | -5.3          | -5.1                    | -5.3                     | -4.9             | -4.2 | -4.7 | -5.7  |
| 1/8/2011 21:00  | -4.7                            | -4.9                            | -5.7                                | -5.7                   | -5.9                     | -6.5                   | -5.4          | -5.3                    | -5.4                     | -4.9             | -4.2 | -4.9 | -7    |
| 1/8/2011 22:00  | -5.1                            | -5.2                            | -8.5                                | -7.7                   | -6.7                     | -7                     | -5.3          | -5.3                    | -5.4                     | -4.9             | -4.2 | -4.9 | -8.2  |
| 1/8/2011 23:00  | -6.6                            | -6.2                            | -10.4                               | -8.7                   | -6.1                     | -5.8                   | -5.1          | -5                      | -5.5                     | -4.8             | -4.4 | -4.8 | -10.1 |
| 1/9/2011 0:00   | -7.1                            | -7.1                            | -10.3                               | -10.2                  | -7.6                     | -7                     | -5.3          | -5.1                    | -5.3                     | -5               | -4.5 | -4.9 | -6.2  |
| 1/9/2011 1:00   | -5.4                            | -5.5                            | -8.6                                | -9.3                   | -7.4                     | -6.8                   | -5.5          | -5.2                    | -5.6                     | -5.4             | -5   | -5.3 | -5.9  |
| 1/9/2011 2:00   | -6.3                            | -5.7                            | -10                                 | -10.3                  | -6                       | -5.9                   | -5.7          | -5.4                    | -5.7                     | -5.5             | -5.1 | -5.4 | -5.7  |
| 1/9/2011 3:00   | -9.3                            | -8.4                            | -12.1                               | -12                    | -6.6                     | -6.1                   | -6            | -5.4                    | -5.5                     | -5.4             | -5   | -5.2 | -5.5  |
| 1/9/2011 4:00   | -9.2                            | -10.1                           | -12.5                               | -11.3                  | -8.7                     | -8.5                   | -8            | -7.5                    | -7.2                     | -5.9             | -5.1 | -5.4 | -7.4  |
| 1/9/2011 5:00   | -8.5                            | -8.7                            | -10.5                               | -10.2                  | -8.9                     | -8.8                   | -6.4          | -6.4                    | -6.7                     | -5.6             | -5.2 | -5.5 | -7.8  |
| 1/9/2011 6:00   | -8.3                            | -8.4                            | -9                                  | -9.3                   | -8.8                     | -8.7                   | -6.6          | -6.2                    | -6                       | -5.7             | -5.2 | -5.7 | -7.4  |
| 1/9/2011 7:00   | -8                              | -8.1                            | -8.7                                | -8.8                   | -8.2                     | -7.1                   | -5.8          | -5.6                    | -5.8                     | -5.6             | -5.2 | -5.5 | -6.6  |
| 1/9/2011 8:00   | -7.7                            | -8                              | -7.8                                | -7.9                   | -7.7                     | -7                     | -5.8          | -5.5                    | -5.8                     | -5.6             | -5.2 | -5.5 | -6.1  |
| 1/9/2011 9:00   | -7.5                            | -6.7                            | -10                                 | -9.1                   | -6.9                     | -6.5                   | -5.7          | -5.5                    | -5.6                     | -5.6             | -5.2 | -5.4 | -6.2  |
| 1/9/2011 10:00  | -9                              | -7.9                            | -10                                 | -9.2                   | -7.8                     | -6.9                   | -5.6          | -5.4                    | -5.3                     | -5.5             | -5   | -5.1 | -5.6  |
| 1/9/2011 11:00  | -6.4                            | -6.6                            | -8                                  | -7.8                   | -6.8                     | -6.6                   | -4.9          | -5.2                    | -5                       | -5               | -4.9 | -5.2 | -5.4  |
| 1/9/2011 12:00  | -5.1                            | -4.9                            | -5.7                                | -5.9                   | -5.1                     | -5.1                   | -4.6          | -4.9                    | -4.7                     | -4.6             | -4.5 | -4.8 | -5    |
| 1/9/2011 13:00  | -3.8                            | -3.8                            | -4.6                                | -4.6                   | -4.4                     | -4.5                   | -4.1          | -4.4                    | -4.2                     | -4               | -4.1 | -4.2 | -4.5  |
| <b>Potential Icewine Opportunity</b>                        |                                 |                                 |                                     |                        |                          |                        |               |                         |                          |                  |      |      |       |
| 1/9/2011 18:00  | -5.7                            | -5.6                            | -6.7                                | -6.4                   | -5.2                     | -5.1                   | -4.7          | -4.6                    | -4.8                     | -4.4             | -3.8 | -4.4 | -4.9  |
| 1/9/2011 19:00  | -6                              | -6                              | -6.8                                | -6.9                   | -5.9                     | -6.2                   | -5.2          | -5.1                    | -5.2                     | -4.9             | -4.3 | -4.6 | -6.4  |
| 1/9/2011 20:00  | -5.8                            | -5.4                            | -8                                  | -7.6                   | -5.2                     | -5.8                   | -5.4          | -5.1                    | -5.4                     | -5.1             | -4.4 | -5.1 | -5.8  |



Legend:

|  |                            |
|--|----------------------------|
|  | Icewine Temperatures       |
|  | Below Icewine Temperatures |



### Niagara East: Icewine Opportunities (6 Hour Minimum)

| Date & Time     | St. Catharines Glass Ave | St. Catharines Third Ave | West St. Catharines Fifth St | Niagara Catharines | St. David's College | Niagara Airport | Virgil | NOTL Irvine Road | Lakeshore | Parkway | Queenston |       |      |
|-----------------|--------------------------|--------------------------|------------------------------|--------------------|---------------------|-----------------|--------|------------------|-----------|---------|-----------|-------|------|
| 1/9/2011 21:00  | -7.9                     | -7.2                     | -9.2                         | -8.5               | -5                  | -5.9            | -5.3   | -5.2             | -5.5      | -5      | -4.5      | -5    | -5.6 |
| 1/9/2011 22:00  | -9.9                     | -9.3                     | -10.3                        | -9.2               | -8.4                | -6.1            | -5.3   | -5               | -5.2      | -5      | -4.4      | -4.9  | -5.5 |
| 1/9/2011 23:00  | -10.2                    | -10.1                    | -10.8                        | -10.7              | -9.4                | -9              | -7.6   | -7               | -5.6      | -5.2    | -4.6      | -5.2  | -7.6 |
| 1/10/2011 0:00  | -11.5                    | -11.4                    | -10.7                        | -11.2              | -10.4               | -9.8            | -7     | -6.8             | -5.9      | -5.2    | -4.5      | -5.2  | -9.4 |
| 1/10/2011 1:00  | -11.5                    | -11.8                    | -11.1                        | -11.4              | -10.2               | -9.8            | -10.4  | -10.1            | -10       | -5.2    | -4.5      | -5.2  | -9   |
| 1/10/2011 2:00  | -10.2                    | -10.8                    | -11.4                        | -10.3              | -10.2               | -9.3            | -9.8   | -9.4             | -9.5      | -5.2    | -4.6      | -5.1  | -8.9 |
| 1/10/2011 3:00  | -12.2                    | -11.7                    | -11.6                        | -11.6              | -9.9                | -9              | -9.9   | -9.2             | -9.1      | -5.5    | -5        | -5.9  | -7.9 |
| 1/10/2011 4:00  | -11.9                    | -12                      | -11.6                        | -10.8              | -9.6                | -9.5            | -10.4  | -9.7             | -9.9      | -6.7    | -5.3      | -9.5  | -9   |
| 1/10/2011 5:00  | -10.4                    | -11.6                    | -11.9                        | -10.1              | -9.8                | -10.1           | -10.8  | -10.2            | -10       | -6.5    | -5.5      | -9.7  | -9   |
| 1/10/2011 6:00  | -10                      | -10.7                    | -12.1                        | -10.7              | -10.3               | -10.1           | -10.9  | -10.4            | -10.5     | -6.1    | -5.4      | -10.2 | -9.7 |
| 1/10/2011 7:00  | -9.6                     | -9.9                     | -11.8                        | -11                | -10.1               | -9.8            | -10.6  | -10.6            | -10.4     | -6.2    | -5.5      | -10.5 | -9.7 |
| 1/10/2011 8:00  | -10.5                    | -11.7                    | -11.2                        | -11.1              | -10.2               | -9.9            | -10.5  | -10.3            | -10.2     | -9.1    | -6.2      | -9.9  | -9.9 |
| 1/10/2011 9:00  | -8.5                     | -9.8                     | -10.4                        | -11.1              | -10                 | -9.4            | -8     | -9.2             | -9        | -6.9    | -5.4      | -8.5  | -9   |
| 1/10/2011 10:00 | -7.1                     | -7                       | -8.6                         | -8.4               | -7.1                | -6.2            | -4.6   | -4.9             | -5.2      | -4.9    | -4.2      | -4.7  | -5.9 |
| 1/10/2011 11:00 | -5.4                     | -5.5                     | -6                           | -6.2               | -4.8                | -4.5            | -4.4   | -4.5             | -4.3      | -4.2    | -4.2      | -4.3  | -4.3 |
| 1/10/2011 12:00 | -3.9                     | -4.1                     | -4.7                         | -4.4               | -4.4                | -3.9            | -4     | -4.4             | -4        | -3.7    | -4        | -4.1  | -3.7 |

#### Potential Icewine Opportunity

|                 |      |      |      |      |      |       |       |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|-------|-------|------|------|------|------|------|------|
| 1/12/2011 22:00 | -5.8 | -6.1 | -6.4 | -6   | -6.3 | -6.7  | -6.4  | -6.3 | -6.6 | -6.4 | -6   | -6.2 | -6.8 |
| 1/12/2011 23:00 | -6.9 | -7.2 | -7.8 | -7.2 | -7.3 | -7.7  | -7.7  | -7.3 | -7.5 | -7.5 | -7.1 | -7.3 | -7.2 |
| 1/13/2011 0:00  | -8.2 | -8.6 | -9   | -8.6 | -8.6 | -8.8  | -8.8  | -8.4 | -8.6 | -8.7 | -8.4 | -8.4 | -8.4 |
| 1/13/2011 1:00  | -9.2 | -9.4 | -9.8 | -9.4 | -9.3 | -9.8  | -9.7  | -9.4 | -9.6 | -9.6 | -9.2 | -9.4 | -9.4 |
| 1/13/2011 2:00  | -9.1 | -9.6 | -9.8 | -9.6 | -9.7 | -10.2 | -10.1 | -9.6 | -9.9 | -9.9 | -9.5 | -9.6 | -9.8 |
| 1/13/2011 3:00  | -9.2 | -9.7 | -9.8 | -9.6 | -9.8 | -10.2 | -10   | -9.6 | -9.9 | -9.8 | -9.4 | -9.6 | -9.9 |
| 1/13/2011 4:00  | -8.7 | -9.1 | -9.2 | -9.1 | -9.6 | -10.1 | -9.8  | -9.6 | -10  | -9.5 | -9.4 | -9.6 | -9.9 |
| 1/13/2011 5:00  | -8.6 | -9   | -9.2 | -8.9 | -9.5 | -10.1 | -9.9  | -9.5 | -10  | -9.6 | -9.3 | -9.6 | -10  |
| 1/13/2011 6:00  | -8.5 | -8.8 | -9   | -8.9 | -9.3 | -9.7  | -9.1  | -8.9 | -9.3 | -8.9 | -8.4 | -9   | -9.6 |
| 1/13/2011 7:00  | -8.3 | -8.5 | -8.9 | -8.6 | -8.5 | -9.1  | -8.7  | -8.5 | -9   | -8.6 | -8.3 | -8.7 | -9.1 |
| 1/13/2011 8:00  | -8.2 | -8.5 | -9.2 | -9.1 | -8.4 | -8.8  | -8.5  | -8.3 | -8.6 | -8.3 | -7.9 | -8.4 | -8.9 |
| 1/13/2011 9:00  | -7.7 | -7.9 | -9.2 | -9.1 | -8.1 | -8.5  | -8.2  | -8   | -8.1 | -7.9 | -7.6 | -7.9 | -8.2 |
| 1/13/2011 10:00 | -7.7 | -7.8 | -8.7 | -8.4 | -7.8 | -7.7  | -7.5  | -7.5 | -7.6 | -7.4 | -7.4 | -7.6 | -7.8 |
| 1/13/2011 11:00 | -6.8 | -7.1 | -7.7 | -7.5 | -7.1 | -7.2  | -7.3  | -7.3 | -7.4 | -7.1 | -7.3 | -7.5 | -7.4 |
| 1/13/2011 12:00 | -6.6 | -6.7 | -7.5 | -7.2 | -6.6 | -6.5  | -6.7  | -7   | -6.9 | -6.6 | -6.8 | -7.3 | -6.9 |

#### Potential Icewine Opportunity

|                 |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1/16/2011 7:00  | -7   | -7.2 | -7.8 | -7   | -6.9 | -7   | -6.3 | -6   | -6.3 | -6.2 | -5.8 | -7.3 | -6.5 |
| 1/16/2011 8:00  | -7.7 | -7.9 | -8.2 | -8   | -6.6 | -6.9 | -6.7 | -6.5 | -6.7 | -6.6 | -6.2 | -8   | -6.6 |
| 1/16/2011 9:00  | -7.6 | -8   | -7.7 | -8.4 | -7.1 | -7.1 | -6.9 | -6.6 | -6.9 | -6.8 | -6.4 | -8.5 | -6.8 |
| 1/16/2011 10:00 | -8.3 | -8.7 | -7.4 | -8.3 | -7   | -7.3 | -7.3 | -7   | -7.2 | -7.2 | -7.1 | -8.8 | -7.1 |
| 1/16/2011 11:00 | -8.6 | -8.7 | -8.4 | -9.1 | -7.7 | -7.9 | -8.1 | -8   | -8.1 | -8   | -7.9 | -9.3 | -7.9 |



Legend:

|  |                            |
|--|----------------------------|
|  | Icewine Temperatures       |
|  | Below Icewine Temperatures |



## Niagara East: Icewine Opportunities (6 Hour Minimum)

| Date & Time                   | St. Catharines Glass Ave | St. Catharines Third Ave | West St. Catharines Fifth St | Niagara Catharines | St. David's College | Niagara Airport | Virgil | NOTL Irvine Road | Lakeshore | Parkway | Queenston |       |       |
|-------------------------------|--------------------------|--------------------------|------------------------------|--------------------|---------------------|-----------------|--------|------------------|-----------|---------|-----------|-------|-------|
| 1/16/2011 12:00               | -9.6                     | -9.5                     | -8.5                         | -10.3              | -8.2                | -8.6            | -8.7   | -8.7             | -8.8      | -8.6    | -8.2      | -9.3  | -8.5  |
| 1/16/2011 13:00               | -9.6                     | -9.8                     | -8.6                         | -10.4              | -8.5                | -8.7            | -9     | -9.3             | -9.2      | -9.4    | -8.6      | -9.9  | -8.9  |
| 1/16/2011 14:00               | -10.5                    | -10.5                    | -9.5                         | -11                | -8.3                | -8.8            | -9     | -9.1             | -9.1      | -9.2    | -9        | -10.6 | -8.6  |
| 1/16/2011 15:00               | -11.4                    | -11.4                    | -10.6                        | -12                | -9.1                | -9.5            | -9.6   | -9.7             | -9.4      | -9.6    | -9        | -10.6 | -9.4  |
| 1/16/2011 16:00               | -11.7                    | -11.1                    | -10.6                        | -12.5              | -9.6                | -10             | -10.1  | -10.1            | -10.2     | -10.2   | -9.7      | -10.4 | -9.9  |
| 1/16/2011 17:00               | -11.9                    | -11.4                    | -11.4                        | -14.1              | -10.3               | -10.8           | -10.7  | -10.6            | -10.8     | -10.6   | -10.2     | -10.9 | -10.9 |
| 1/16/2011 18:00               | -13.3                    | -12.7                    | -12.6                        | -15.8              | -11.4               | -11.5           | -11    | -10.7            | -11       | -10.7   | -10.3     | -11.1 | -11.5 |
| 1/16/2011 19:00               | -17                      | -16.5                    | -13.6                        | -16.8              | -12.2               | -11.3           | -11    | -10.5            | -10.9     | -10.7   | -10.2     | -11.7 | -11.2 |
| 1/16/2011 20:00               | -19.3                    | -18.8                    | -14.8                        | -18.1              | -12.4               | -12.1           | -11.7  | -11.6            | -11.7     | -11.1   | -10.6     | -15.1 | -12.6 |
| 1/16/2011 21:00               | -20.8                    | -20.7                    | -16                          | -18.7              | -14.2               | -14.7           | -12.8  | -12.7            | -13       | -11.6   | -10.7     | -17.4 | -14.7 |
| 1/16/2011 22:00               | -21.6                    | -21.1                    | -15.9                        | -19.1              | -16.6               | -17.6           | -15.1  | -15              | -16.1     | -11.9   | -10.9     | -18   | -15.2 |
| 1/16/2011 23:00               | -22.7                    | -22                      | -20                          | -20.4              | -17.6               | -19.1           | -17.7  | -18.1            | -18.1     | -12     | -11       | -17.5 | -16.3 |
| 1/17/2011 0:00                | -23.2                    | -22.7                    | -19.7                        | -21                | -17.9               | -19.6           | -17.3  | -19              | -20.6     | -16.1   | -11       | -16.8 | -16.9 |
| 1/17/2011 1:00                | -23.6                    | -22                      | -20.2                        | -21.6              | -18.2               | -18.8           | -18    | -18.8            | -20.3     | -16.3   | -15.1     | -16.4 | -17.8 |
| 1/17/2011 2:00                | -24.3                    | -22.9                    | -20.2                        | -22.1              | -18.9               | -19.3           | -19    | -19.1            | -18.8     | -16.2   | -16.1     | -15.4 | -18.5 |
| 1/17/2011 3:00                | -24.4                    | -24.1                    | -20.9                        | -21.4              | -19.5               | -18             | -18.7  | -20.2            | -17.3     | -16.1   | -15.6     | -16   | -17.2 |
| 1/17/2011 4:00                | -22.4                    | -24.2                    | -20.6                        | -19.1              | -18.9               | -18.3           | -19.3  | -21.2            | -17.5     | -17.4   | -17       | -15.1 | -17.2 |
| 1/17/2011 5:00                | -19.5                    | -19.4                    | -20.4                        | -16.8              | -15.5               | -14.7           | -16.2  | -22.3            | -16.7     | -17.6   | -15.6     | -15.1 | -15.8 |
| 1/17/2011 6:00                | -18.3                    | -15.7                    | -19.6                        | -14.6              | -15.2               | -14.5           | -15.5  | -17.8            | -15.6     | -15.6   | -15.6     | -14   | -14.8 |
| 1/17/2011 7:00                | -12.1                    | -12                      | -18.4                        | -12                | -14.4               | -14.5           | -15.4  | -16.5            | -15.1     | -15.3   | -15.9     | -11.8 | -14.3 |
| 1/17/2011 8:00                | -9.8                     | -10.5                    | -18.2                        | -10.3              | -15.8               | -14.5           | -15    | -15.9            | -15.1     | -14.9   | -15.7     | -10.5 | -14.5 |
| 1/17/2011 9:00                | -8.6                     | -9.4                     | -15.7                        | -8.9               | -14.9               | -13.5           | -14.2  | -14.1            | -13.7     | -14.1   | -14.1     | -9.1  | -13.9 |
| 1/17/2011 10:00               | -8                       | -8.7                     | -12.2                        | -8.1               | -11.5               | -11.6           | -11.4  | -12.1            | -11.7     | -12.1   | -11.6     | -8.2  | -11.9 |
| 1/17/2011 11:00               | -7.3                     | -7.8                     | -10.2                        | -7.3               | -10.4               | -10.3           | -10.5  | -10.4            | -10       | -10.4   | -10       | -7.5  | -9.8  |
| 1/17/2011 12:00               | -7.9                     | -8.7                     | -8.8                         | -7.7               | -9.2                | -9.2            | -9.1   | -9.1             | -9.1      | -9.4    | -8.7      | -8    | -8.4  |
| 1/17/2011 13:00               | -8                       | -8.7                     | -8.1                         | -8.1               | -8.7                | -8.1            | -8.5   | -8.6             | -8.7      | -8.7    | -8        | -8.2  | -6.5  |
| 1/17/2011 14:00               | -7.3                     | -7.8                     | -7.4                         | -7.3               | -7                  | -7.2            | -7.5   | -7.3             | -7.7      | -7.9    | -7.3      | -7.5  | -5.7  |
| 1/17/2011 15:00               | -6.6                     | -7.4                     | -6.9                         | -6.6               | -6.7                | -6.7            | -7.3   | -7               | -7.4      | -7.6    | -6.8      | -7.2  | -5    |
| Potential Icewine Opportunity |                          |                          |                              |                    |                     |                 |        |                  |           |         |           |       |       |
| 1/17/2011 16:00               | -6.9                     | -7.6                     | -7.5                         | -6.7               | -7.1                | -7.2            | -7.9   | -7.5             | -7.8      | -7.9    | -7.2      | -7.5  | -6.4  |
| 1/17/2011 17:00               | -7.3                     | -7.8                     | -8                           | -7.4               | -7.7                | -8.3            | -8.4   | -7.7             | -8.2      | -8.1    | -7.7      | -7.8  | -7.5  |
| 1/17/2011 18:00               | -9.1                     | -8.9                     | -10.1                        | -9.3               | -9.3                | -10             | -9.5   | -8.5             | -9        | -8.8    | -8.4      | -8.4  | -8.8  |
| 1/17/2011 19:00               | -11.5                    | -9.8                     | -11.2                        | -11.1              | -11.1               | -10.3           | -9.7   | -8.7             | -9.4      | -9.6    | -8.9      | -8.9  | -10.4 |
| 1/17/2011 20:00               | -12.3                    | -9.6                     | -11.7                        | -11.2              | -8.1                | -8.9            | -9.3   | -8.8             | -9.2      | -9      | -8.6      | -8.7  | -9.4  |
| 1/17/2011 21:00               | -11.8                    | -11                      | -11.4                        | -10.3              | -7.8                | -7.8            | -8.6   | -8.2             | -9.2      | -9      | -8.5      | -8.6  | -7.1  |
| 1/17/2011 22:00               | -11.3                    | -11.3                    | -7.6                         | -7.5               | -3.8                | -4.7            | -7.5   | -7.4             | -7.5      | -8.4    | -8.4      | -8.2  | -5.1  |
| 1/17/2011 23:00               | -6.4                     | -9.7                     | -7.2                         | -6.7               | -3                  | -3.2            | -3.4   | -3.8             | -4.1      | -6      | -7.5      | -4.8  | -3.3  |
| 1/18/2011 0:00                | -5.3                     | -7.5                     | -6.2                         | -5.3               | -2.7                | -3              | -3     | -2.6             | -2.7      | -3.5    | -4.2      | -3.3  | -2.3  |

Legend:

|  |                            |
|--|----------------------------|
|  | Icewine Temperatures       |
|  | Below Icewine Temperatures |

### Niagara East: Icewine Opportunities (6 Hour Minimum)

| Date & Time                          | St. Catharines Glass Ave | St. Catharines Third Ave | West St. Catharines Fifth St | Niagara Catharines | St. David's College | Niagara Airport | Virgil | NOTL Irvine Road | Lakeshore | Parkway | Queenston |       |       |
|--------------------------------------|--------------------------|--------------------------|------------------------------|--------------------|---------------------|-----------------|--------|------------------|-----------|---------|-----------|-------|-------|
| <b>Potential Icewine Opportunity</b> |                          |                          |                              |                    |                     |                 |        |                  |           |         |           |       |       |
| 1/19/2011 20:00                      | -6.3                     | -6.4                     | -6.7                         | -6.5               | -6.3                | -6.3            | -6     | -5.7             | -5.9      | -5.8    | -5.4      | -5.7  | -6    |
| 1/19/2011 21:00                      | -6.5                     | -6.5                     | -7.1                         | -6.6               | -6.3                | -6.4            | -6.2   | -5.9             | -6.1      | -6      | -5.5      | -5.6  | -6.1  |
| 1/19/2011 22:00                      | -7.5                     | -7.6                     | -8.2                         | -7.8               | -7.5                | -7.3            | -7.2   | -6.7             | -6.8      | -6.8    | -6.2      | -6.3  | -6.8  |
| 1/19/2011 23:00                      | -8.3                     | -8.3                     | -9.4                         | -8.7               | -8.1                | -8.2            | -7.9   | -7.5             | -7.8      | -7.5    | -6.4      | -7.2  | -7.8  |
| 1/20/2011 0:00                       | -9.9                     | -9.9                     | -10.7                        | -10.1              | -9.7                | -9.7            | -9.3   | -9               | -9        | -8.9    | -7.4      | -8.3  | -8.9  |
| 1/20/2011 1:00                       | -10.5                    | -10.7                    | -11.4                        | -10.6              | -10.6               | -10.7           | -10.5  | -10.2            | -10.4     | -9.9    | -7.9      | -10   | -10.3 |
| 1/20/2011 2:00                       | -10.6                    | -11.1                    | -11.6                        | -10.8              | -10.9               | -11             | -11.6  | -10.9            | -11.3     | -10.8   | -10       | -10.7 | -10.8 |
| 1/20/2011 3:00                       | -11.4                    | -11.5                    | -12                          | -12                | -10.6               | -10.5           | -11.5  | -10.6            | -11.5     | -10.8   | -10.7     | -11.6 | -10.4 |
| 1/20/2011 4:00                       | -13.6                    | -15.3                    | -12.5                        | -12.3              | -11.6               | -11             | -13.1  | -11.6            | -11.7     | -11.4   | -11.2     | -11.4 | -10.6 |
| 1/20/2011 5:00                       | -12.5                    | -16.4                    | -12.2                        | -12.5              | -11.4               | -10.7           | -13.1  | -11.2            | -12.7     | -12.2   | -12.5     | -12.2 | -10.4 |
| 1/20/2011 6:00                       | -13.5                    | -14.4                    | -12.3                        | -12.5              | -11.5               | -10.9           | -12.6  | -11.4            | -11.7     | -11.4   | -10.9     | -11.4 | -10.6 |
| 1/20/2011 7:00                       | -12                      | -13.8                    | -11.4                        | -11.7              | -11.3               | -10.6           | -12.4  | -11              | -11.7     | -11.8   | -11.6     | -11.8 | -10.8 |
| 1/20/2011 8:00                       | -11                      | -11.5                    | -11.2                        | -10.7              | -9.7                | -9.7            | -10.4  | -10              | -10.3     | -10.4   | -10.2     | -10.5 | -9.3  |
| 1/20/2011 9:00                       | -11.5                    | -11.4                    | -11.1                        | -10.8              | -10                 | -10             | -10.9  | -10.3            | -10.3     | -10.5   | -10       | -9.9  | -9.4  |
| 1/20/2011 10:00                      | -10                      | -10.1                    | -9.7                         | -9.2               | -8.8                | -8.8            | -9.2   | -9.1             | -9.3      | -9.4    | -9        | -8.8  | -8.2  |
| 1/20/2011 11:00                      | -8.1                     | -8.3                     | -8.1                         | -7.4               | -7.4                | -7.3            | -7.7   | -7.7             | -7.8      | -8      | -7.6      | -7.5  | -6.9  |
| 1/20/2011 12:00                      | -6.8                     | -7.1                     | -7.3                         | -6.5               | -6.3                | -6.1            | -6.5   | -6.7             | -6.5      | -6.7    | -6.2      | -5.7  | -5.6  |
| 1/20/2011 13:00                      | -5.8                     | -6.2                     | -6.4                         | -5.7               | -5.8                | -5.9            | -6.1   | -6.4             | -6.3      | -6.2    | -5.8      | -5.6  | -5.6  |
| <b>Potential Icewine Opportunity</b> |                          |                          |                              |                    |                     |                 |        |                  |           |         |           |       |       |
| 1/20/2011 19:00                      | -7.4                     | -7.5                     | -7.8                         | -7.4               | -7.3                | -7.6            | -7.4   | -7.1             | -7.4      | -7.3    | -7.1      | -7.2  | -7.3  |
| 1/20/2011 20:00                      | -7.5                     | -7.7                     | -7.9                         | -7.5               | -7.5                | -7.8            | -7.6   | -7.4             | -7.6      | -7.5    | -7.3      | -7.4  | -7.4  |
| 1/20/2011 21:00                      | -7.6                     | -7.8                     | -8.1                         | -7.7               | -7.5                | -8              | -7.6   | -7.4             | -7.7      | -7.5    | -7.4      | -7.5  | -7.5  |
| 1/20/2011 22:00                      | -7.8                     | -8                       | -8.1                         | -7.8               | -7.6                | -8              | -7.6   | -7.5             | -7.7      | -7.6    | -7.4      | -7.5  | -7.4  |
| 1/20/2011 23:00                      | -7.8                     | -8                       | -8.1                         | -7.7               | -7.6                | -7.9            | -7.7   | -7.5             | -7.6      | -7.6    | -7.4      | -7.4  | -7.4  |
| 1/21/2011 0:00                       | -7.8                     | -7.9                     | -8.1                         | -7.7               | -7.6                | -7.8            | -7.7   | -7.4             | -7.6      | -7.7    | -7.5      | -7.4  | -7.5  |
| 1/21/2011 1:00                       | -7.7                     | -7.8                     | -8.1                         | -7.7               | -7.6                | -7.9            | -7.7   | -7.4             | -7.6      | -7.7    | -7.5      | -7.4  | -7.5  |
| 1/21/2011 2:00                       | -7.7                     | -7.9                     | -8.1                         | -7.8               | -7.6                | -7.9            | -7.7   | -7.4             | -7.6      | -7.6    | -7.4      | -7.4  | -7.6  |
| 1/21/2011 3:00                       | -7.8                     | -7.9                     | -8.2                         | -7.8               | -7.5                | -7.8            | -7.7   | -7.5             | -7.7      | -7.7    | -7.4      | -7.4  | -7.6  |
| 1/21/2011 4:00                       | -7.9                     | -8                       | -8.1                         | -7.8               | -7.4                | -7.7            | -7.6   | -7.4             | -7.7      | -7.6    | -7.4      | -7.5  | -7.4  |
| 1/21/2011 5:00                       | -8                       | -8.2                     | -8.1                         | -7.8               | -7.4                | -7.6            | -7.6   | -7.4             | -7.5      | -7.6    | -7.4      | -7.4  | -7.1  |
| 1/21/2011 6:00                       | -7.5                     | -7.7                     | -7.5                         | -7.4               | -7.1                | -7.6            | -7.4   | -7.2             | -7.4      | -7.4    | -7.2      | -7.5  | -7.2  |
| 1/21/2011 7:00                       | -6.7                     | -7                       | -7.1                         | -6.7               | -6.6                | -6.9            | -6.8   | -6.5             | -6.8      | -6.7    | -6.5      | -6.7  | -6.7  |
| <b>Potential Icewine Opportunity</b> |                          |                          |                              |                    |                     |                 |        |                  |           |         |           |       |       |
| 1/21/2011 13:00                      | -6.5                     | -6.4                     | -7                           | -6.8               | -6.5                | -6.8            | -6.7   | -6.6             | -6.5      | -6.2    | -5.7      | -6    | -6.5  |
| 1/21/2011 14:00                      | -6.5                     | -6.3                     | -7.4                         | -7.1               | -6.1                | -6.2            | -6.3   | -6.5             | -6.5      | -6.4    | -5.9      | -6.2  | -5.9  |
| 1/21/2011 15:00                      | -7.2                     | -7.1                     | -8                           | -7.7               | -6.7                | -6.7            | -6.6   | -6.9             | -7        | -7      | -6.2      | -6.6  | -6.2  |
| 1/21/2011 16:00                      | -8.2                     | -8.3                     | -9                           | -8.7               | -8.2                | -8.6            | -8.1   | -7.8             | -7.8      | -7.6    | -6.9      | -7.4  | -8    |



Legend:

|  |                            |
|--|----------------------------|
|  | Icewine Temperatures       |
|  | Below Icewine Temperatures |



## Niagara East: Icewine Opportunities (6 Hour Minimum)

| Date & Time     | St. Catharines Glass Ave | St. Catharines Third Ave | West St. Catharines Fifth St | Niagara Catharines | St. David's College | Niagara Bench | Niagara Airport | Virgil | NOTL Irvine Road | Lakeshore | Parkway | Queenston |       |
|-----------------|--------------------------|--------------------------|------------------------------|--------------------|---------------------|---------------|-----------------|--------|------------------|-----------|---------|-----------|-------|
| 1/21/2011 17:00 | -8.8                     | -8.8                     | -9.8                         | -9.5               | -8.5                | -9            | -8.9            | -8.6   | -8.9             | -8.5      | -7.6    | -8        | -8.9  |
| 1/21/2011 18:00 | -10.2                    | -10.2                    | -11                          | -10.6              | -10.1               | -10.3         | -9.9            | -9.5   | -9.7             | -9.5      | -8.1    | -9.2      | -9.7  |
| 1/21/2011 19:00 | -11                      | -11.1                    | -11.9                        | -11.4              | -11.1               | -11.2         | -10.7           | -10.4  | -10.5            | -10.1     | -8.5    | -10       | -10.7 |
| 1/21/2011 20:00 | -11.8                    | -11.9                    | -12.5                        | -12                | -11.8               | -12.1         | -11.7           | -11.3  | -11.4            | -11.2     | -10.1   | -10.7     | -11.5 |
| 1/21/2011 21:00 | -12.1                    | -12.3                    | -12.9                        | -12.6              | -12.2               | -12.4         | -12.1           | -11.9  | -12.1            | -11.8     | -10.5   | -11.5     | -12   |
| 1/21/2011 22:00 | -12.6                    | -12.8                    | -13.3                        | -13.1              | -12.5               | -12.7         | -12.5           | -12.2  | -12.5            | -12.3     | -11.3   | -11.9     | -12.5 |
| 1/21/2011 23:00 | -12.7                    | -12.9                    | -13.5                        | -13.5              | -12.6               | -12.9         | -12.6           | -12.5  | -12.7            | -12.4     | -11.6   | -11.9     | -12.6 |
| 1/22/2011 0:00  | -13.1                    | -13.3                    | -13.9                        | -13.9              | -13                 | -13.3         | -13.5           | -13    | -13.3            | -12.9     | -11.9   | -12.4     | -13.1 |
| 1/22/2011 1:00  | -13.2                    | -13.5                    | -14                          | -13.9              | -13.2               | -13.5         | -13.4           | -13.3  | -13.8            | -13.3     | -12.3   | -13.2     | -13.5 |
| 1/22/2011 2:00  | -13.1                    | -13.5                    | -14.3                        | -14.3              | -13.4               | -13.8         | -13.7           | -13.8  | -14.1            | -13.4     | -12.5   | -13.8     | -13.9 |
| 1/22/2011 3:00  | -13.7                    | -14                      | -14.7                        | -14.7              | -13.7               | -13.9         | -14.4           | -14    | -14.8            | -14.2     | -13.6   | -14.1     | -14.2 |
| 1/22/2011 4:00  | -13.9                    | -14.4                    | -14.9                        | -15.2              | -13.9               | -14.2         | -14.9           | -14.4  | -15.2            | -14.7     | -14.6   | -15.1     | -14.5 |
| 1/22/2011 5:00  | -14.2                    | -14.6                    | -15.1                        | -15.3              | -14                 | -14.2         | -14.6           | -14.2  | -14.7            | -14.5     | -14.1   | -14.5     | -13.7 |
| 1/22/2011 6:00  | -13.9                    | -14.5                    | -14.8                        | -14.8              | -13.7               | -14           | -14.2           | -13.8  | -14.3            | -14.3     | -13.9   | -14.6     | -13.3 |
| 1/22/2011 7:00  | -13.9                    | -13.8                    | -14.1                        | -14                | -12.5               | -12.8         | -13.3           | -13    | -13.2            | -13.2     | -13.1   | -13.1     | -12.3 |
| 1/22/2011 8:00  | -13.2                    | -13.3                    | -13.4                        | -13.3              | -11.7               | -12.1         | -12.6           | -12.2  | -12.6            | -12.7     | -12.5   | -12.5     | -11.7 |
| 1/22/2011 9:00  | -12.3                    | -12.6                    | -12.7                        | -12.2              | -11.3               | -11.6         | -11.7           | -11.5  | -11.8            | -11.7     | -11.5   | -11.5     | -11.3 |
| 1/22/2011 10:00 | -11                      | -11.1                    | -11.3                        | -11.1              | -10.6               | -10.8         | -10.6           | -10.4  | -10.6            | -10.5     | -9.9    | -10.3     | -10.5 |
| 1/22/2011 11:00 | -10.1                    | -10                      | -10.3                        | -10.2              | -9.7                | -9.9          | -9.8            | -9.8   | -9.9             | -9.8      | -9.1    | -9.2      | -9.7  |
| 1/22/2011 12:00 | -9.7                     | -9.7                     | -10                          | -9.6               | -9.2                | -9.3          | -9.6            | -9.5   | -9.6             | -9.8      | -9.1    | -9        | -9.1  |
| 1/22/2011 13:00 | -8.8                     | -9                       | -9.1                         | -8.5               | -8.2                | -8.4          | -8.7            | -8.7   | -9               | -9.2      | -8.7    | -8.3      | -7.9  |
| 1/22/2011 14:00 | -8.4                     | -8.6                     | -9                           | -7.9               | -7.9                | -7.6          | -8.2            | -8.3   | -8.2             | -8.6      | -8.1    | -7.9      | -7.8  |
| 1/22/2011 15:00 | -8.5                     | -8.6                     | -9                           | -8.1               | -8.2                | -8.2          | -8.5            | -8.5   | -8.5             | -8.6      | -8.1    | -7.9      | -8.3  |
| 1/22/2011 16:00 | -8.8                     | -8.9                     | -9.2                         | -8.5               | -8.7                | -8.8          | -8.8            | -8.7   | -8.8             | -9        | -8.6    | -8.4      | -8.6  |
| 1/22/2011 17:00 | -9.1                     | -9.2                     | -9.4                         | -8.8               | -9                  | -9.2          | -9              | -8.8   | -9               | -9        | -8.8    | -8.8      | -9    |
| 1/22/2011 18:00 | -9.2                     | -9.5                     | -9.6                         | -9.1               | -9.2                | -9.5          | -9.3            | -9.1   | -9.3             | -9.2      | -9      | -9.1      | -9.2  |
| 1/22/2011 19:00 | -9.3                     | -9.6                     | -9.7                         | -9.4               | -9.2                | -9.6          | -9.6            | -9.3   | -9.5             | -9.5      | -9.3    | -9.3      | -9.4  |
| 1/22/2011 20:00 | -9.4                     | -9.5                     | -9.7                         | -9.3               | -9.3                | -9.7          | -9.5            | -9.4   | -9.6             | -9.5      | -9.3    | -9.4      | -9.3  |
| 1/22/2011 21:00 | -9.3                     | -9.6                     | -9.4                         | -9.3               | -9.4                | -9.9          | -9.7            | -9.7   | -9.9             | -9.5      | -9.4    | -9.8      | -9.6  |
| 1/22/2011 22:00 | -9                       | -9.2                     | -9.3                         | -9                 | -9.1                | -9.8          | -9.6            | -9.6   | -10              | -9.4      | -9.3    | -9.7      | -9.9  |
| 1/22/2011 23:00 | -9.6                     | -9.7                     | -10.2                        | -9.9               | -9.6                | -9.7          | -9.4            | -9.1   | -9.4             | -9.1      | -8.3    | -9.1      | -9.7  |
| 1/23/2011 0:00  | -10.1                    | -10.3                    | -10.7                        | -10.4              | -10.3               | -10.3         | -10             | -9.6   | -9.9             | -9.4      | -8.1    | -9.4      | -9.9  |
| 1/23/2011 1:00  | -10.6                    | -10.7                    | -11.1                        | -10.7              | -10.6               | -10.7         | -10.4           | -10.1  | -10.3            | -9.7      | -8.2    | -9.8      | -10.3 |
| 1/23/2011 2:00  | -10.7                    | -10.8                    | -11.2                        | -10.9              | -10.7               | -11           | -10.5           | -10.2  | -10              | -9.1      | -8.6    | -9        | -10.7 |
| 1/23/2011 3:00  | -10.8                    | -10.9                    | -11.1                        | -10.9              | -10.7               | -10.7         | -9.3            | -9.1   | -9.3             | -9.1      | -8.6    | -8.9      | -10.5 |
| 1/23/2011 4:00  | -9.9                     | -10                      | -10.9                        | -10.7              | -10.4               | -9.8          | -9.3            | -9     | -9.3             | -9.1      | -8.7    | -8.9      | -9.5  |
| 1/23/2011 5:00  | -9                       | -9.3                     | -10.1                        | -10.6              | -9.4                | -9.8          | -9.5            | -9.2   | -9.5             | -9.2      | -9      | -9.2      | -9.5  |
| 1/23/2011 6:00  | -9.4                     | -9.7                     | -10.2                        | -9.9               | -10.1               | -10.5         | -10.4           | -10.3  | -10.4            | -10.2     | -10     | -10.1     | -10.1 |



Weather INnovations Incorporated

Legend:

|  |                           |
|--|---------------------------|
|  | Icwine Temperatures       |
|  | Below Icwine Temperatures |



Weather INnovations Incorporated

### Niagara East: Icewine Opportunities (6 Hour Minimum)

| Date & Time     | St. Catharines Glass Ave | St. Catharines Third Ave | West St. Catharines Fifth St | Niagara Catharines | St. David's College | Niagara Airport | Virgil | NOTL Irvine Road | Lakeshore | Parkway | Queenston |       |
|-----------------|--------------------------|--------------------------|------------------------------|--------------------|---------------------|-----------------|--------|------------------|-----------|---------|-----------|-------|
| 1/23/2011 7:00  | -10.6                    | -10.7                    | -11.1                        | -10.7              | -10.9               | -11.4           | -11.2  | -11              | -11.2     | -11.1   | -10.8     | -10.9 |
| 1/23/2011 8:00  | -12.2                    | -12.3                    | -12.8                        | -12.2              | -12                 | -12.5           | -12.5  | -12.3            | -12.5     | -12.5   | -12.4     | -12.1 |
| 1/23/2011 9:00  | -13.5                    | -13.5                    | -13.9                        | -13.5              | -13.6               | -14             | -13.9  | -13.8            | -14       | -13.9   | -13.7     | -13.6 |
| 1/23/2011 10:00 | -14                      | -14.3                    | -14.4                        | -14.2              | -14                 | -14.2           | -14.2  | -14              | -14.1     | -14.2   | -14.2     | -13.8 |
| 1/23/2011 11:00 | -14                      | -14.2                    | -14.4                        | -14                | -14.2               | -14             | -13.5  | -14.2            | -14.1     | -13.5   | -14       | -13.8 |
| 1/23/2011 12:00 | -14                      | -14.2                    | -14.8                        | -14.1              | -14.1               | -13.5           | -13.8  | -13.8            | -13.8     | -13.9   | -14       | -13.9 |
| 1/23/2011 13:00 | -13.9                    | -14.2                    | -14.8                        | -14.3              | -14.5               | -14.1           | -13.4  | -14              | -14       | -13.7   | -13.7     | -14.3 |
| 1/23/2011 14:00 | -13.9                    | -14.2                    | -15.1                        | -14.5              | -14.7               | -13.5           | -13.6  | -13.8            | -13.8     | -13.7   | -14.1     | -13.8 |
| 1/23/2011 15:00 | -14.1                    | -14.3                    | -14.8                        | -14.6              | -14.3               | -14             | -14.2  | -14.4            | -14       | -13.8   | -13.9     | -14.3 |
| 1/23/2011 16:00 | -13.2                    | -14                      | -14.7                        | -14.9              | -14.4               | -14.3           | -13.8  | -14.2            | -14.2     | -13.9   | -14.2     | -14.4 |
| 1/23/2011 17:00 | -13.2                    | -14.1                    | -13.8                        | -14.4              | -16.5               | -16.5           | -15.7  | -15.6            | -15.3     | -14.7   | -14.7     | -15   |
| 1/23/2011 18:00 | -15.4                    | -15.3                    | -17                          | -16.4              | -17.7               | -18.3           | -17.2  | -18.1            | -17.6     | -15.2   | -14.5     | -16.9 |
| 1/23/2011 19:00 | -18.6                    | -18.9                    | -19.3                        | -19.1              | -17.5               | -17.8           | -16.4  | -16.5            | -16.2     | -15.8   | -15.3     | -16.3 |
| 1/23/2011 20:00 | -20.6                    | -21.5                    | -20.4                        | -21.3              | -20.4               | -18.7           | -18    | -18.7            | -17.5     | -18     | -16.6     | -16.7 |
| 1/23/2011 21:00 | -20.8                    | -21.2                    | -20.2                        | -21.8              | -19.7               | -19             | -20.9  | -23              | -19.5     | -18.9   | -18.3     | -19.4 |
| 1/23/2011 22:00 | -18                      | -18.6                    | -18.8                        | -21                | -19.6               | -20.4           | -20.5  | -22.3            | -21.2     | -18.2   | -18.2     | -20.1 |
| 1/23/2011 23:00 | -17.4                    | -17.9                    | -17.8                        | -19.8              | -18.4               | -19.6           | -18.9  | -22.2            | -21.2     | -17.9   | -18.3     | -21.5 |
| 1/24/2011 0:00  | -17.1                    | -17.4                    | -17.8                        | -18.4              | -17.5               | -17.4           | -17.7  | -18.6            | -17.6     | -16.9   | -17.4     | -17.5 |
| 1/24/2011 1:00  | -17.9                    | -17.6                    | -18.5                        | -18.4              | -17.8               | -17.5           | -17.5  | -16.9            | -17       | -16.2   | -16.5     | -16.7 |
| 1/24/2011 2:00  | -19.9                    | -19.5                    | -19.6                        | -19.8              | -18                 | -18.1           | -18    | -18.4            | -17.6     | -17     | -16.7     | -17.2 |
| 1/24/2011 3:00  | -20.1                    | -20.1                    | -20                          | -20.9              | -18                 | -18.3           | -18.3  | -19.1            | -17.9     | -18.1   | -17.3     | -18.4 |
| 1/24/2011 4:00  | -18.9                    | -19.2                    | -19.1                        | -19.8              | -16.6               | -16.8           | -17.5  | -17.2            | -16.6     | -17.1   | -16.5     | -17.3 |
| 1/24/2011 5:00  | -18.3                    | -18.1                    | -18                          | -18.7              | -16.6               | -16.4           | -16.4  | -15.9            | -16.3     | -16.3   | -16.1     | -16.6 |
| 1/24/2011 6:00  | -18.1                    | -18.6                    | -19.1                        | -19.4              | -16.9               | -18             | -17.4  | -18.3            | -18.1     | -17.1   | -17.9     | -18.8 |
| 1/24/2011 7:00  | -20.6                    | -20.7                    | -20.7                        | -20.6              | -17.8               | -20.9           | -21.1  | -22.2            | -19.3     | -18.3   | -19.2     | -19.9 |
| 1/24/2011 8:00  | -20.8                    | -21.1                    | -21.7                        | -20.6              | -18                 | -19.1           | -21.4  | -22.8            | -19.3     | -19     | -19.1     | -20.1 |
| 1/24/2011 9:00  | -19.2                    | -19.7                    | -19.2                        | -18.9              | -16.6               | -16.8           | -17.5  | -18.7            | -17.9     | -18     | -17.8     | -18.7 |
| 1/24/2011 10:00 | -16.5                    | -16.8                    | -15.9                        | -16.3              | -13.9               | -14.2           | -14.2  | -15.3            | -15       | -15.4   | -15.2     | -14.8 |
| 1/24/2011 11:00 | -13.5                    | -12.9                    | -13.3                        | -13.8              | -11.7               | -11.6           | -11.7  | -12.7            | -12.4     | -12.8   | -12.5     | -12   |
| 1/24/2011 12:00 | -11.8                    | -11.5                    | -11.1                        | -11.4              | -10.6               | -10.6           | -10.4  | -11.2            | -11.1     | -11.1   | -11.2     | -11   |
| 1/24/2011 13:00 | -10.1                    | -9.6                     | -10                          | -10.3              | -8.6                | -8.5            | -9.6   | -9.7             | -9.4      | -9.8    | -9.2      | -8.8  |
| 1/24/2011 14:00 | -8.8                     | -8.8                     | -9.1                         | -9.2               | -8.1                | -8.4            | -9.4   | -9.4             | -9        | -9.5    | -9        | -8.6  |
| 1/24/2011 15:00 | -8.3                     | -8.3                     | -8.8                         | -8.6               | -7.9                | -8.3            | -9.1   | -8.9             | -8.9      | -9      | -8.7      | -8.6  |
| 1/24/2011 16:00 | -8.3                     | -8.6                     | -8.5                         | -8.4               | -7.9                | -8.2            | -8.5   | -8.4             | -8.5      | -8.7    | -8.4      | -8.3  |
| 1/24/2011 17:00 | -8                       | -8.3                     | -8.4                         | -8                 | -7.8                | -8.3            | -8.6   | -8.4             | -8.8      | -8.6    | -8.4      | -8.8  |
| 1/24/2011 18:00 | -8.8                     | -8.9                     | -9.3                         | -8.9               | -9.1                | -9.9            | -10    | -9.9             | -10.2     | -10     | -9.8      | -10   |
| 1/24/2011 19:00 | -10                      | -10.3                    | -10.2                        | -9.4               | -10                 | -10.7           | -10.8  | -10.7            | -10.8     | -10.8   | -10.5     | -10.5 |
| 1/24/2011 20:00 | -10.2                    | -10.5                    | -10.4                        | -9.7               | -10.3               | -10.8           | -10.7  | -10.4            | -10.6     | -10.6   | -10.4     | -10.4 |



Legend:

|  |                            |
|--|----------------------------|
|  | Icewine Temperatures       |
|  | Below Icewine Temperatures |



### Niagara East: Icewine Opportunities (6 Hour Minimum)

| Date & Time                   | St. Catharines Glass Ave | St. Catharines Third Ave | West St. Catharines Fifth St | Niagara Catharines | St. David's College | Niagara Bench | Niagara Airport | Virgil | NOTL Irvine Road | Lakeshore | Parkway | Queenston |       |
|-------------------------------|--------------------------|--------------------------|------------------------------|--------------------|---------------------|---------------|-----------------|--------|------------------|-----------|---------|-----------|-------|
| 1/24/2011 21:00               | -10.1                    | -10.3                    | -10.4                        | -10                | -10.2               | -10.5         | -10.4           | -10.1  | -10.3            | -10.3     | -10.1   | -10       | -9.9  |
| 1/24/2011 22:00               | -9.9                     | -9.9                     | -10.1                        | -9.8               | -9.9                | -10           | -9.9            | -9.6   | -9.7             | -9.8      | -9.6    | -9.5      | -9.3  |
| 1/24/2011 23:00               | -9.6                     | -9.6                     | -9.8                         | -9.5               | -9.3                | -9.5          | -9.5            | -9.1   | -9.2             | -9.4      | -9.2    | -9.1      | -8.7  |
| 1/25/2011 0:00                | -9.2                     | -9.3                     | -9.3                         | -9                 | -8.5                | -8.8          | -9              | -8.6   | -8.6             | -9        | -8.7    | -8.4      | -8.4  |
| 1/25/2011 1:00                | -7.8                     | -8.3                     | -6.5                         | -6.9               | -4.3                | -4.5          | -7.1            | -7     | -6.9             | -7.7      | -7.7    | -7.4      | -3.9  |
| 1/25/2011 2:00                | -4.2                     | -4.3                     | -3.1                         | -2.9               | -3                  | -3.2          | -3.4            | -3     | -3.2             | -3.8      | -4.3    | -4.1      | -2.5  |
| 1/25/2011 3:00                | -2.7                     | -2.8                     | -2.4                         | -2.3               | -1.9                | -2.2          | -2.3            | -2     | -2.3             | -2.5      | -2.4    | -2.2      | -1.8  |
| Potential Icewine Opportunity |                          |                          |                              |                    |                     |               |                 |        |                  |           |         |           |       |
| 1/30/2011 20:00               | -6                       | -5.8                     | -7                           | -6.8               | -5.8                | -5.5          | -4.9            | -4.6   | -4.8             | -4.6      | -3.9    | -4.1      | -4.9  |
| 1/30/2011 21:00               | -6.6                     | -6.5                     | -7.6                         | -7.6               | -5.8                | -6            | -5.9            | -5.5   | -5.5             | -5.6      | -5.1    | -5        | -5.5  |
| 1/30/2011 22:00               | -7.1                     | -6.9                     | -8.1                         | -8                 | -6.4                | -6.9          | -7.1            | -6.6   | -6.9             | -6.9      | -6.7    | -6.6      | -6.5  |
| 1/30/2011 23:00               | -7.4                     | -7.7                     | -8.1                         | -7.8               | -7.6                | -8            | -8              | -7.6   | -7.9             | -7.8      | -7.6    | -7.6      | -7.6  |
| 1/31/2011 0:00                | -8.6                     | -8.8                     | -9.4                         | -9.2               | -8.7                | -9.2          | -9.2            | -8.7   | -9               | -8.9      | -8.5    | -8.5      | -8.6  |
| 1/31/2011 1:00                | -9.2                     | -9.4                     | -10.2                        | -9.8               | -9.7                | -10.4         | -9.8            | -9.4   | -9.7             | -9.2      | -8.7    | -9.1      | -10.1 |
| 1/31/2011 2:00                | -9.5                     | -9.8                     | -10.6                        | -10                | -9.7                | -10.5         | -10.1           | -10.1  | -10.6            | -9.7      | -9.6    | -9.9      | -10.4 |
| 1/31/2011 3:00                | -9.9                     | -10.1                    | -11                          | -10.3              | -11.1               | -12.1         | -11.8           | -11.6  | -12.1            | -10.7     | -10.3   | -10.9     | -12   |
| 1/31/2011 4:00                | -10.6                    | -11.2                    | -12.4                        | -11.9              | -13.6               | -13.4         | -12.7           | -12.3  | -12              | -11.4     | -10.8   | -10.8     | -12.3 |
| 1/31/2011 5:00                | -11.2                    | -11.7                    | -12.8                        | -13.3              | -12.6               | -13           | -12.9           | -11.8  | -11.6            | -11.6     | -10.9   | -10.9     | -11.8 |
| 1/31/2011 6:00                | -11.4                    | -11.9                    | -12.9                        | -13.2              | -12.7               | -12.7         | -12.5           | -11.5  | -11.7            | -11.5     | -10.9   | -11.6     | -12   |
| 1/31/2011 7:00                | -11.7                    | -12                      | -13.4                        | -13.1              | -13.7               | -13.5         | -12.9           | -12.5  | -13.1            | -11.9     | -11.5   | -12       | -13   |
| 1/31/2011 8:00                | -11.8                    | -12.2                    | -13.2                        | -13                | -16.9               | -16.3         | -13.7           | -14    | -14              | -12.2     | -11.6   | -12.2     | -16.5 |
| 1/31/2011 9:00                | -11.5                    | -12                      | -13.3                        | -14.2              | -17.9               | -16.3         | -13.5           | -13.5  | -13              | -11.8     | -11     | -11.5     | -15.3 |
| 1/31/2011 10:00               | -10.6                    | -11.1                    | -11.7                        | -13                | -12.3               | -11.4         | -11.8           | -11.5  | -11.5            | -11.2     | -10.6   | -11.2     | -11.8 |
| 1/31/2011 11:00               | -9.7                     | -9.9                     | -10.3                        | -10.1              | -10.7               | -10           | -10.2           | -10.4  | -10.1            | -10.2     | -10     | -9.8      | -9.8  |
| 1/31/2011 12:00               | -9.3                     | -9.9                     | -9.8                         | -9.4               | -10                 | -9.1          | -9.2            | -9.5   | -9.6             | -9.6      | -9.5    | -9.5      | -9    |
| 1/31/2011 13:00               | -8.2                     | -9                       | -8.8                         | -8.7               | -9.2                | -8.1          | -8              | -8.6   | -8.5             | -8.7      | -8.4    | -8.3      | -6.7  |
| 1/31/2011 14:00               | -7.9                     | -8.4                     | -8.3                         | -8.2               | -8.3                | -7.6          | -7.8            | -8.2   | -8               | -8        | -8      | -7.7      | -6.2  |
| 1/31/2011 15:00               | -7.4                     | -8.1                     | -8.1                         | -8                 | -8.4                | -7.8          | -8.2            | -8.3   | -8.4             | -8.2      | -8.1    | -7.8      | -7    |
| 1/31/2011 16:00               | -7.8                     | -8.3                     | -8.6                         | -8.3               | -8.4                | -8.1          | -8.5            | -8.5   | -8.5             | -8.2      | -8.1    | -8.3      | -7.4  |
| 1/31/2011 17:00               | -8.3                     | -8.8                     | -9.1                         | -8.8               | -8.8                | -8.8          | -8.9            | -8.5   | -8.9             | -8.6      | -8.7    | -8.7      | -8.1  |
| 1/31/2011 18:00               | -8.8                     | -9.3                     | -9.6                         | -9.2               | -9.2                | -9.3          | -9.5            | -9     | -9.4             | -9.2      | -8.9    | -9.2      | -8.8  |
| 1/31/2011 19:00               | -9.5                     | -9.7                     | -10.1                        | -9.8               | -9.8                | -10.1         | -10.1           | -9.7   | -10              | -9.9      | -9.5    | -9.7      | -9.6  |
| 1/31/2011 20:00               | -9.5                     | -9.8                     | -10.1                        | -9.8               | -9.9                | -10.2         | -10             | -9.6   | -10              | -9.8      | -9.4    | -9.6      | -9.8  |
| 1/31/2011 21:00               | -9.4                     | -9.6                     | -9.8                         | -9.6               | -9.6                | -10           | -9.6            | -9.2   | -9.6             | -9.5      | -9.1    | -9.2      | -9.6  |
| 1/31/2011 22:00               | -9.1                     | -9.4                     | -9.6                         | -9.1               | -9.5                | -9.8          | -9.5            | -9.1   | -9.5             | -9.3      | -8.9    | -9.1      | -9.5  |
| 1/31/2011 23:00               | -9.1                     | -9.4                     | -9.8                         | -9.3               | -9.5                | -9.9          | -9.6            | -9.3   | -9.6             | -9.4      | -9      | -9.2      | -9.6  |
| 1/31/2011 23:00               | -9.3                     | -9.6                     | -9.9                         | -9.5               | -9.7                | -10           | -9.8            | -9.4   | -9.7             | -9.5      | -9.2    | -9.4      | -9.7  |



Legend:

|  |                            |
|--|----------------------------|
|  | Icewine Temperatures       |
|  | Below Icewine Temperatures |