



Decembers Snow Story 2010:

Off to a sneaky start and had lots of very slippery conditions throughoutended off relatively dry but cold! Precipitation on 19 days with snow falls on 15 days with only one event of about 3". See website for weather details.

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Tuesday, Dec 01: Had the sneakiest barely 1cm snowfall, between 2am & 5am. Properties close to the lake were white, with our AntiIced ones OK. Closer to Orchard Park & north became slippery hazards. Intersections not AntiIced by the city were very slippery. Warming temperatures melted off everything by 10am.

Friday, Dec 03: Another unexpected snowfall caught everyone off guard again. Snow started on the Westside at about 5am, and by 7am streets and all properties had between ½ " and 1" of extremely slippery surfaces. Our proactive AntiIce burned up through it all. Properties close to the lake were not quite as slippery as the temperature of the roads was slightly warmer. Once again everything mostly warmed up and melted by mid afternoon.

Tuesday, Dec 07: Light snow started at 5pm and fell till around 9:30pm. About 1" in most areas left everywhere a slippery mess as wet snow that fell on the super cooled pavement from almost 3 weeks of sub zero temperatures. Our AntiIced lots did not compact and melted off the majority of the accumulation. Very little snow fell the rest of the night.

Wednesday, Dec 08: Nasty slippery streets and compacted icy lots had every service company working throughout the early morning to make all safe. Many properties were pushed (slush), even when less than 2" due to the extremely slickness. Our proactive AntiIced lots & sidewalks needed no pushing, and the warm sunny day melted away the remaining slush.

Thursday, Dec 09: Some really bad black ice conditions between 5am, and mostly around 7am as very light rain fell onto areas that still had cool pavement. Areas mostly seemed to be in Kelowna around Superstore and up into some areas of Rutland. Weird again how mostly all was OK, but only a few areas were frozen, and only for a few hours until all melted.

Saturday, Dec 11: Snow started at 3pm. For a change, the snow fell fairly consistently with slightly less towards the airport. There was 1" by 7pm, and about 2" more by midnight.

Sunday, Dec 12: Snow had mostly stopped by 3am. This was really heavy wet snow that would have added up to over 6 inches, but due to its heaviness, only about 3" remained as a total accumulation. Once again, most of our properties were wet once pushed due to the proactive AntiIce application before the storm.

Saturday, Dec 18: snow start about 3:30pm. Only 1 to 2 cm forecasted but just under 1" by 10pm. All our properties AntiIced earlier in the week were nice and slushy, all the City roads were extremely icy as they were not sprayed proactively. Very light snow fell on and off up till 5am Sun.

Sunday, Dec 19: most of our properties were pushed off, even at only 1 inch as sub zero temps and freezing cold pavement was not allowing enough baring off of ice.



Wednesday, Dec 22: snow started about noon, and didn't stop till around 9pm. Almost 1 inch of perfect wet snowball material was spread throughout Kelowna with slightly more on West Kelowna. Many properties were pushed to prevent the compact, extremely slippery conditions that prevailed after this blast.

Thursday, Dec 23: our AntiIce and spells of light rain/drizzle throughout the day helped to keep the existing snow slushy and mostly melted off whatever snow that wasn't pushed off throughout the early morning.

Friday, Dec 24: Bad black ice everywhere. Many of our lots had the AntiIce washed off from yesterdays afternoon drizzle/rain.

Sun, Dec 26: Early morning warming made the rain stay wet....

Monday, Dec 27: Wet snow started about 9:30pm and fell throughout the night.

Tuesday, Dec 28: Snowfall accumulations ranged from about ½" in downtown Kelowna to 2" in the lower Mission. Most areas between 1 & 2 inches, including West Kelowna. Snow stayed wet and soft till about 8am then everything not AntiIced froze solid and stayed that way, especially in Rutland. AntiIce & sunshine got most of the properties slushing away by late afternoon.

Wednesday, Dec 30: Just plain cold. Anything not melted off the previous day stayed frozen into January.

#### WEATHER WEBSITES:

The only hourly weather data is from the airport. To retrieve the last 24 hrs of recorded temp & precept go to:

[http://text.weatheroffice.gc.ca/trends\\_table/pages/ylw\\_metric\\_e.html](http://text.weatheroffice.gc.ca/trends_table/pages/ylw_metric_e.html)

To find historical hourly data from the Kelowna airport:

<http://www.wunderground.com/history/airport/CYLW/2010/12/23/DailyHistory.html>

BIG picture satellite shows last 12hrs of weather movement over West North America. You can predict the weather if you can figure out how the World "breathes":

[http://weather.unisys.com/satellite/sat\\_ir\\_enh\\_hem\\_loop-12.gif](http://weather.unisys.com/satellite/sat_ir_enh_hem_loop-12.gif)

SMALLER picture satellite shows just the coast and most of BC....from Castanet. Also gives you what someone else thinks the weather will be:

<http://www.castanet.net/weather/>

ON US picture shows radar "noise" from the top of Silverstar Mountain in Vernon. This site can give us a pretty good idea of when exactly the weather will hit, and for how long – shows our valley really well:

[http://www.weatheroffice.gc.ca/radar/index\\_e.html?id=xss](http://www.weatheroffice.gc.ca/radar/index_e.html?id=xss)



## Daily Data Report for December 2010 KELOWNA BRITISH COLUMBIA

(rough measurements - to be taken very lightly...best to see hourly data on Data sheet)

| Day                 | <u>Max Temp</u> | <u>Min Temp</u> | <u>Mean Temp</u> | <u>Heat Deg Days</u> | <u>Cool Deg Days</u> | <u>Total Rain</u> | <u>Total Snow</u> | <u>Total Precip</u> | <u>Snow on Grnd</u> | <u>Dir of Max Gust</u> | <u>Spd of Max Gust</u> |
|---------------------|-----------------|-----------------|------------------|----------------------|----------------------|-------------------|-------------------|---------------------|---------------------|------------------------|------------------------|
|                     | °C              | °C              | °C               | °C                   | °C                   | mm                | cm                | mm                  | cm                  | 10's Deg               | km/h                   |
| <a href="#">01†</a> | 2.5             | -1.4            | 0.6              | 17.4                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">02†</a> | 1.7             | -7.3            | -2.8             | 20.8                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">03†</a> | -0.2            | -3.2            | -1.7             | 19.7                 | 0.0                  | M                 | M                 | 0.5                 |                     |                        | <31                    |
| <a href="#">04†</a> | 0.1             | -4.5            | -2.2             | 20.2                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">05†</a> | -3.1            | -12.9           | -8.0             | 26.0                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">06†</a> | -2.7            | -13.1           | -7.9             | 25.9                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">07†</a> | 1.1             | -8.2            | -3.6             | 21.6                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">08†</a> | 6.3             | -0.9            | 2.7              | 15.3                 | 0.0                  | M                 | M                 | 0.6                 |                     |                        | <31                    |
| <a href="#">09†</a> | 4.5             | 1.4             | 3.0              | 15.0                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">10†</a> | 8.6             | -5.0            | 1.8              | 16.2                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">11†</a> | 1.5             | -3.6            | -1.1             | 19.1                 | 0.0                  | M                 | M                 | 0.5                 |                     |                        | <31                    |
| <a href="#">12†</a> | 4.1             | -0.9            | 1.6              | 16.4                 | 0.0                  | M                 | M                 | 3.0                 |                     |                        | <31                    |
| <a href="#">13†</a> | 4.3             | 0.8             | 2.6              | 15.4                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">14†</a> | 6.3             | 0.2             | 3.3              | 14.7                 | 0.0                  | M                 | M                 | 1.5                 |                     |                        | <31                    |
| <a href="#">15†</a> | 3.2             | -3.0            | 0.1              | 17.9                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">16†</a> | 0.4             | -6.4            | -3.0             | 21.0                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">17†</a> | 0.3             | -9.0            | -4.4             | 22.4                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">18†</a> | -3.8            | -12.3           | -8.1             | 26.1                 | 0.0                  | M                 | M                 | 1.3                 |                     |                        | <31                    |
| <a href="#">19†</a> | -3.0            | -7.0            | -5.0             | 23.0                 | 0.0                  | M                 | M                 | 0.3                 |                     |                        | <31                    |
| <a href="#">20†</a> | -3.1            | -10.9           | -7.0             | 25.0                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">21†</a> | -0.6            | -7.9            | -4.3             | 22.3                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">22†</a> | -0.5            | -6.3            | -3.4             | 21.4                 | 0.0                  | M                 | M                 | 0.3                 |                     |                        | <31                    |
| <a href="#">23†</a> | 2.6             | -2.2            | 0.2              | 17.8                 | 0.0                  | M                 | M                 | 0.0                 | 26                  |                        | 35                     |
| <a href="#">24†</a> | 2.3             | -3.0            | -0.4             | 18.4                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">25†</a> | 2.8             | -4.2            | -0.7             | 18.7                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">26†</a> | 4.2             | -2.9            | 0.7              | 17.3                 | 0.0                  | M                 | M                 | 2.0                 |                     |                        | <31                    |
| <a href="#">27†</a> | 4.0             | -4.2            | -0.1             | 18.1                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| <a href="#">28†</a> | 4.1             | -2.4            | 0.9              | 17.1                 | 0.0                  | M                 | M                 | 0.3                 |                     |                        | <31                    |
| <a href="#">29†</a> | 0.5             | -3.0            | -1.3             | 19.3                 | 0.0                  | M                 | M                 | 0.0                 | 35                  |                        | 37                     |
| <a href="#">30†</a> | -2.2            | -12.3           | -7.3             | 25.3                 | 0.0                  | M                 | M                 | 0.0                 | 2                   |                        | 32                     |
| <a href="#">31†</a> | -7.3            | -16.7           | -12.0            | 30.0                 | 0.0                  | M                 | M                 | 0.0                 |                     |                        | <31                    |
| Sum                 |                 |                 |                  | 624.8                | 0.0                  | M                 | M                 | 10.3                |                     |                        |                        |
| Avg                 | 1.3             | -5.6            | -2.15            |                      |                      |                   |                   |                     |                     |                        |                        |
| Xtrm                | 8.6             | -16.7           |                  |                      |                      |                   |                   |                     |                     | 35                     | 37                     |