

# NAVIGANT

ENERGY

## Ontario Energy Board

*2014 Natural Gas Market Review*

*Stakeholder Conference*

### Winter 2013/14 Natural Gas Prices – Session 2/ Panel 1

Ontario Energy Board

2300 Yonge Street, 25<sup>th</sup> Floor

Toronto, Ontario M4P 1E4

West Hearing Room / ADR Room

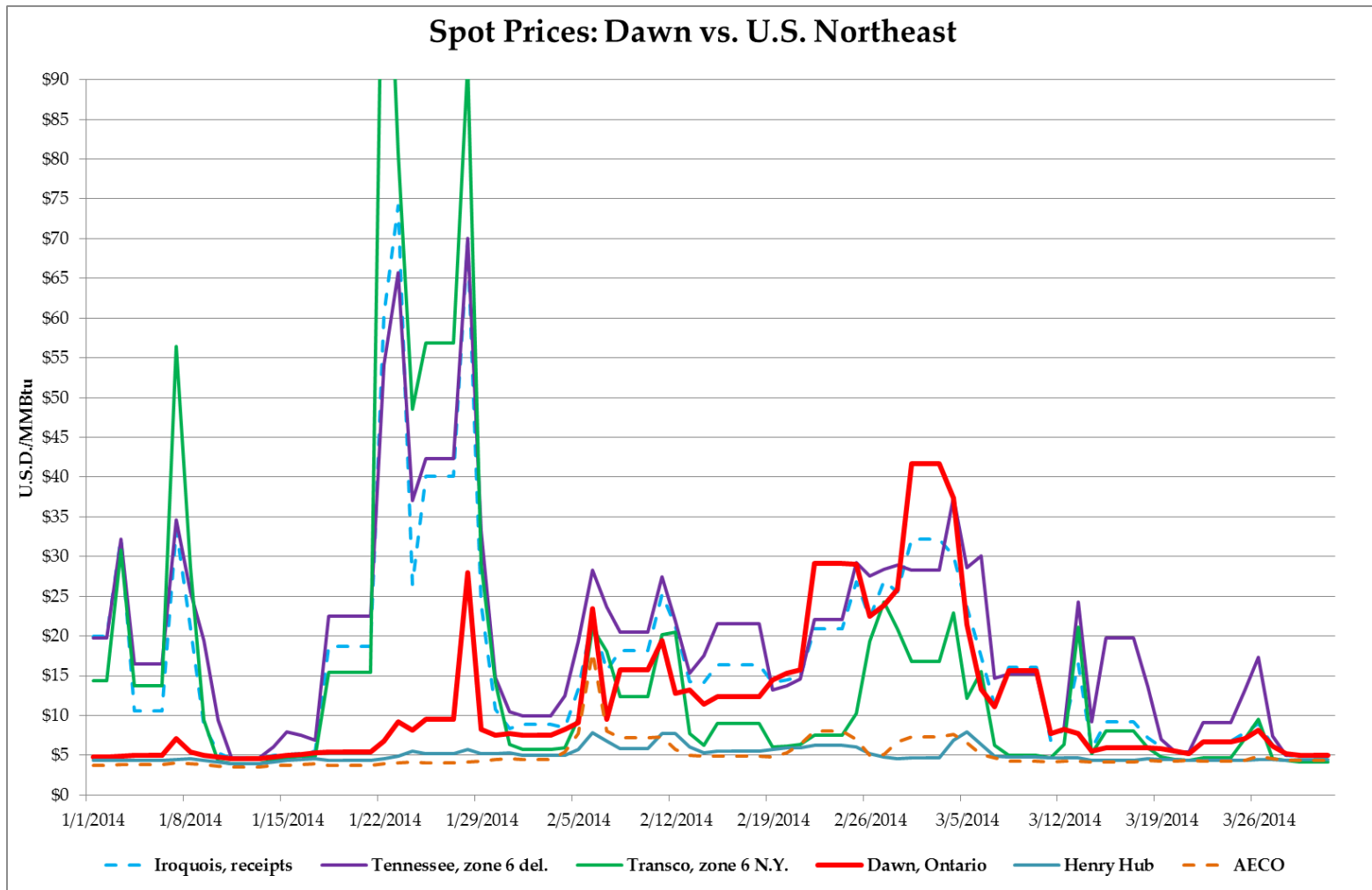
December 3-4, 2014



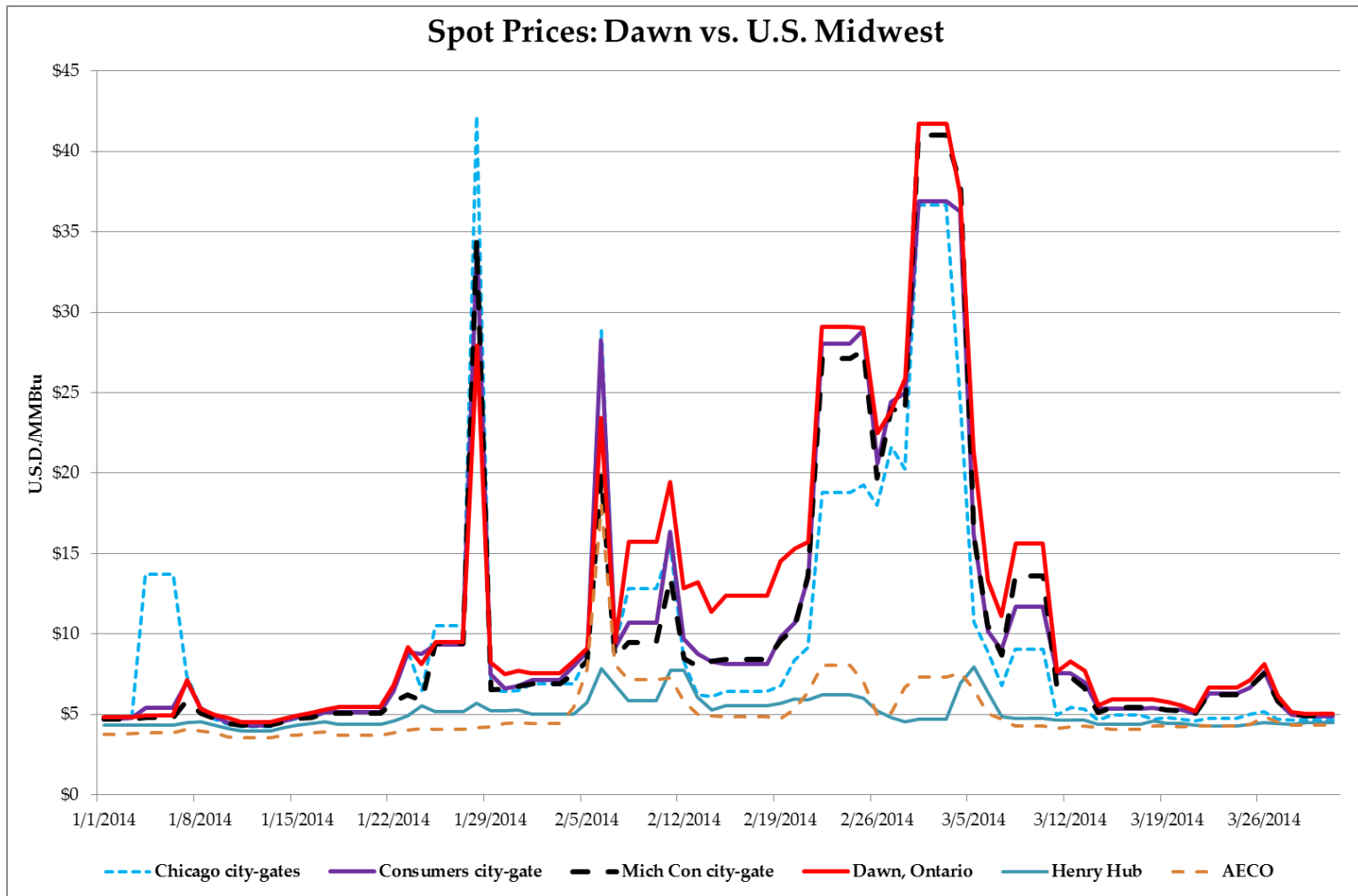
©2014 Navigant Consulting, Inc.  
Confidential and proprietary. Do not distribute or copy.

DISPUTES & INVESTIGATIONS • ECONOMICS • FINANCIAL ADVISORY • MANAGEMENT CONSULTING

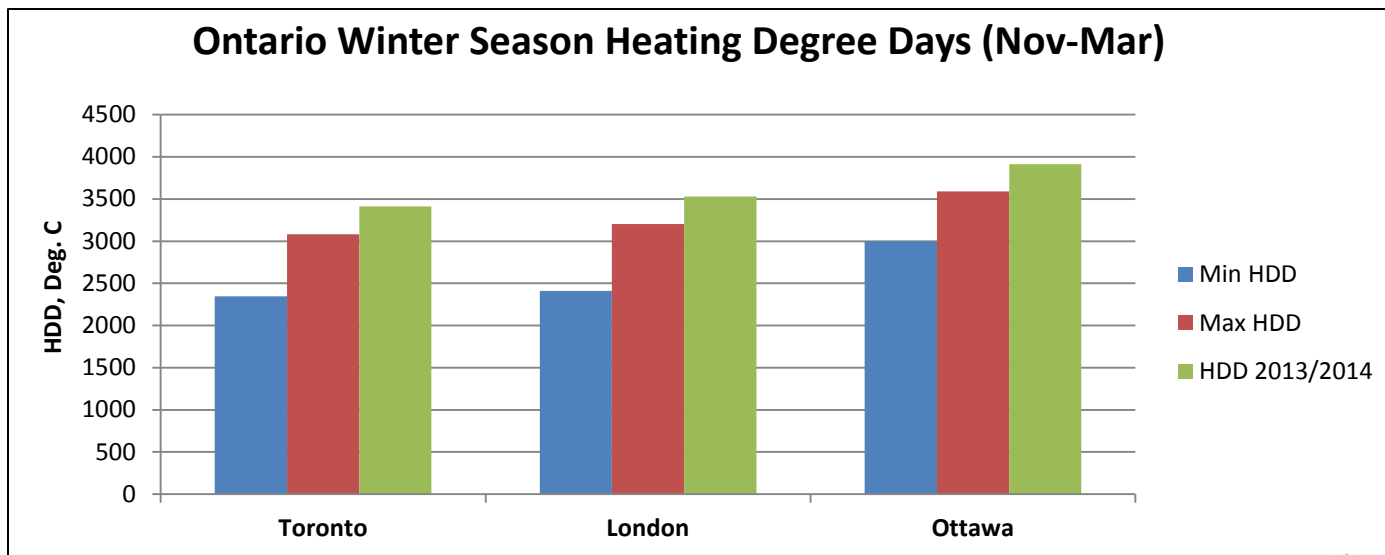
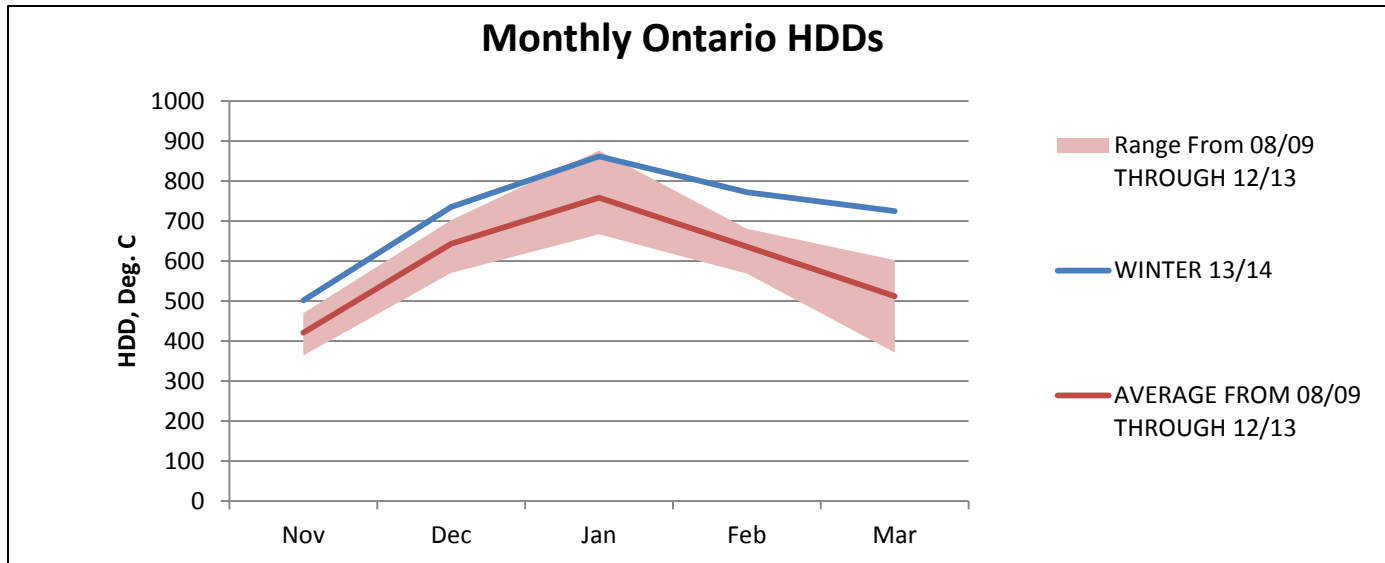
# Winter Season Overview—Prices (Dawn vs. U.S. Northeast)



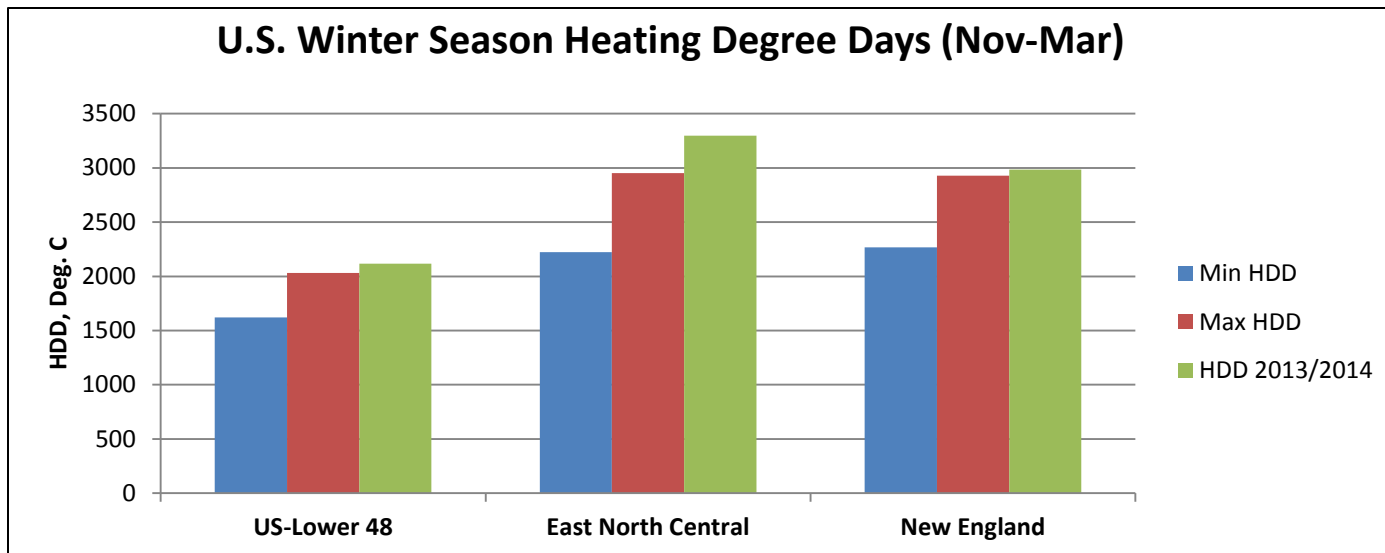
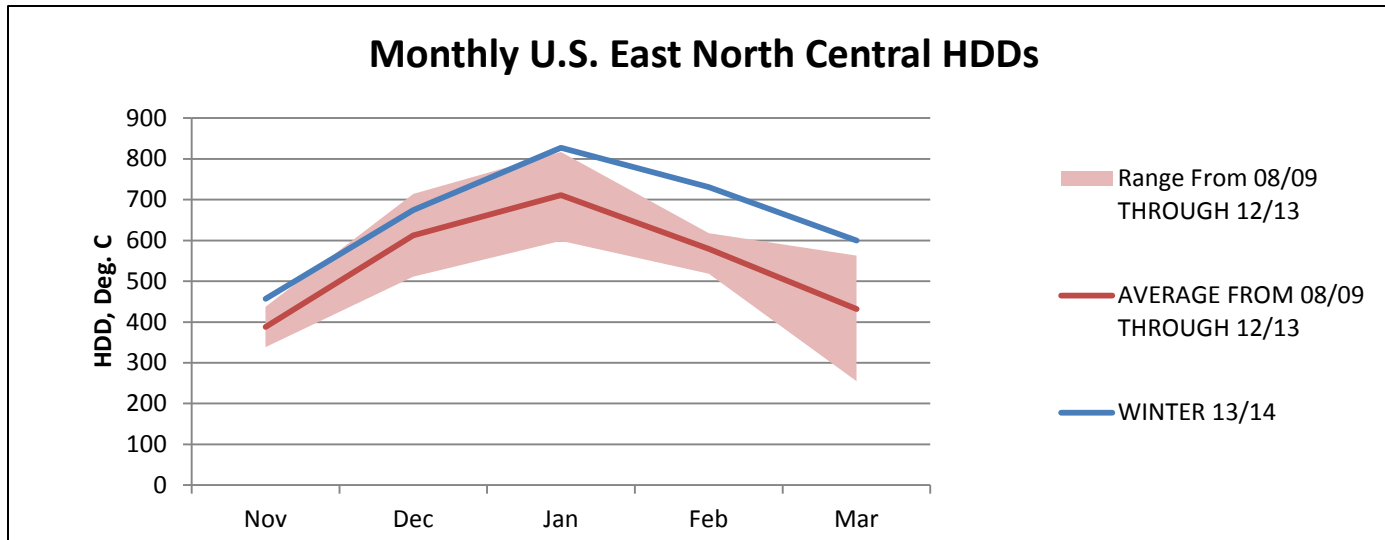
# Winter Season Overview—Prices (Dawn vs. U.S. Midwest)



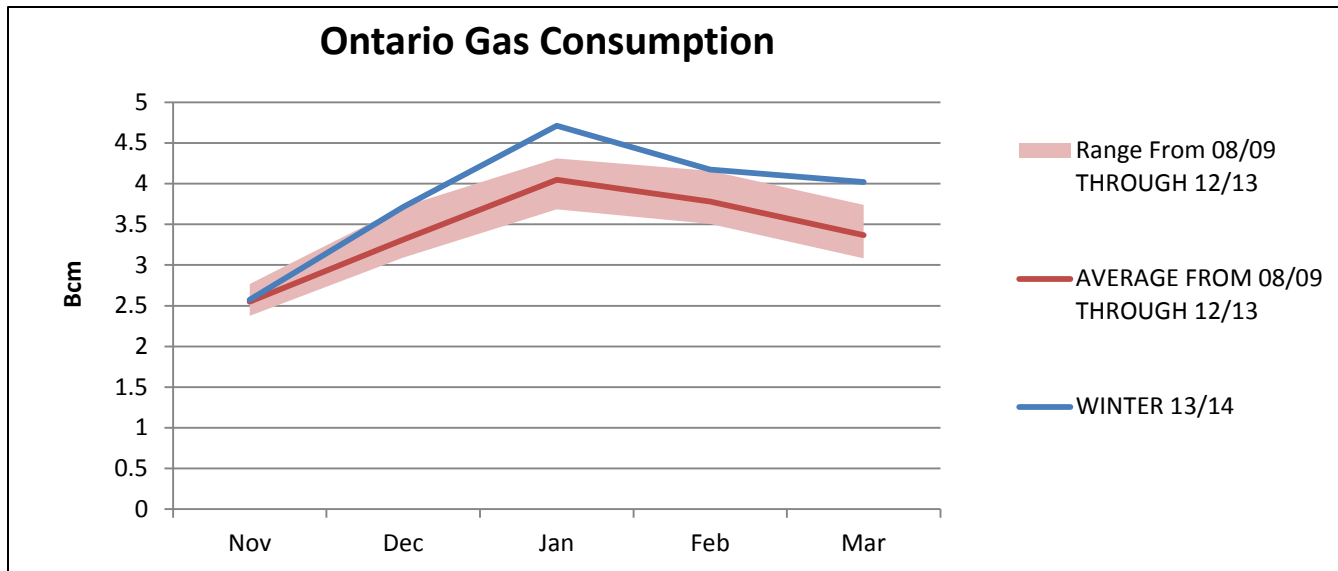
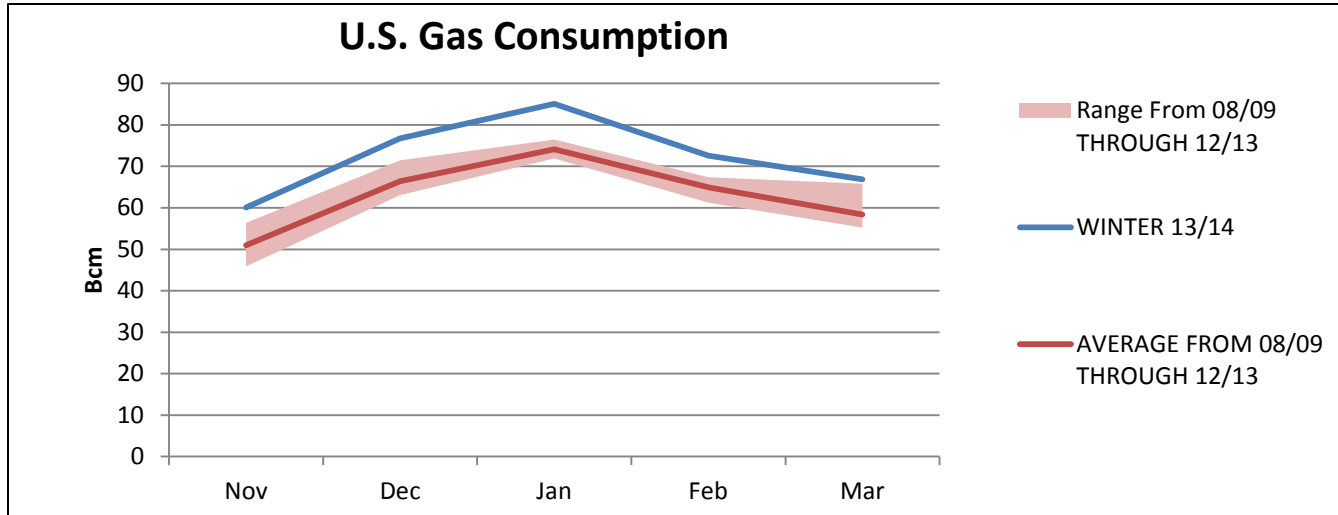
# Winter Season Overview – Temperature – Ontario



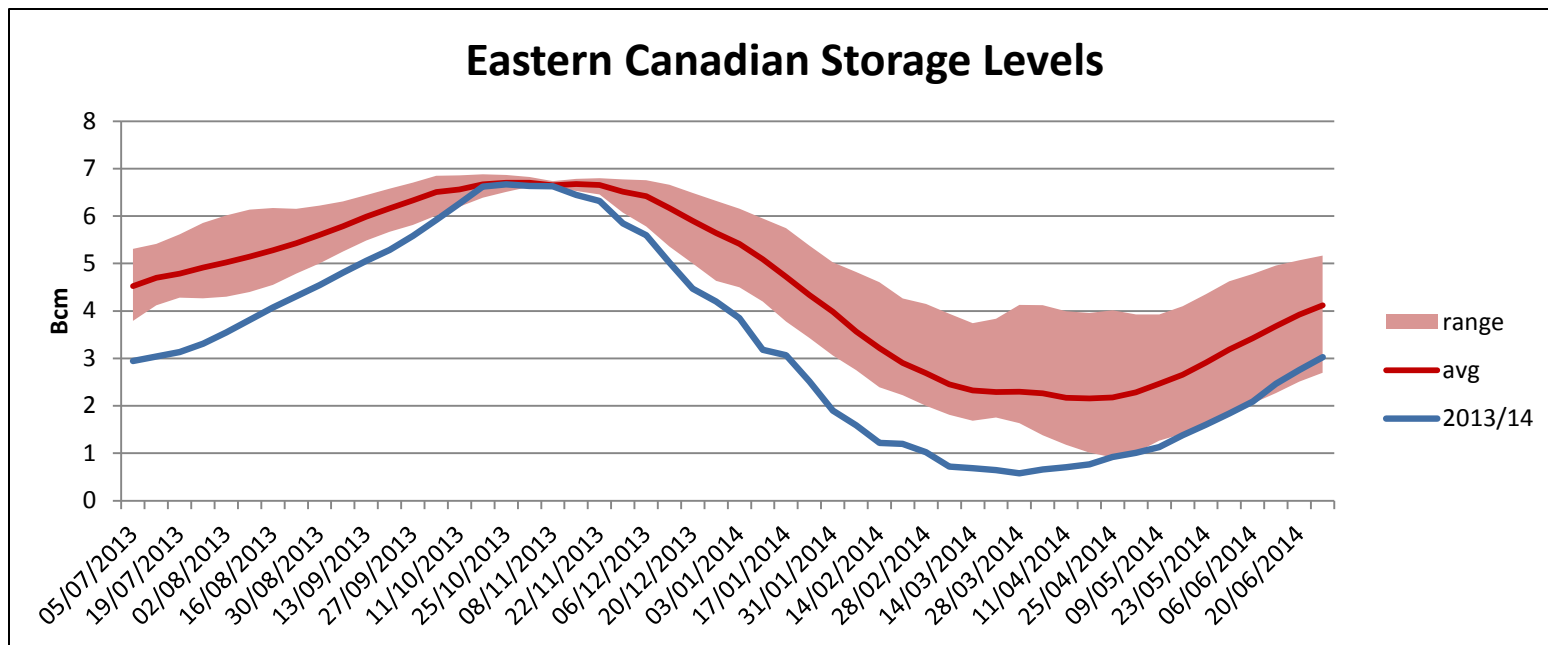
# Winter Season Overview – Temperature – U.S.



# Winter Season Overview – Gas Demand



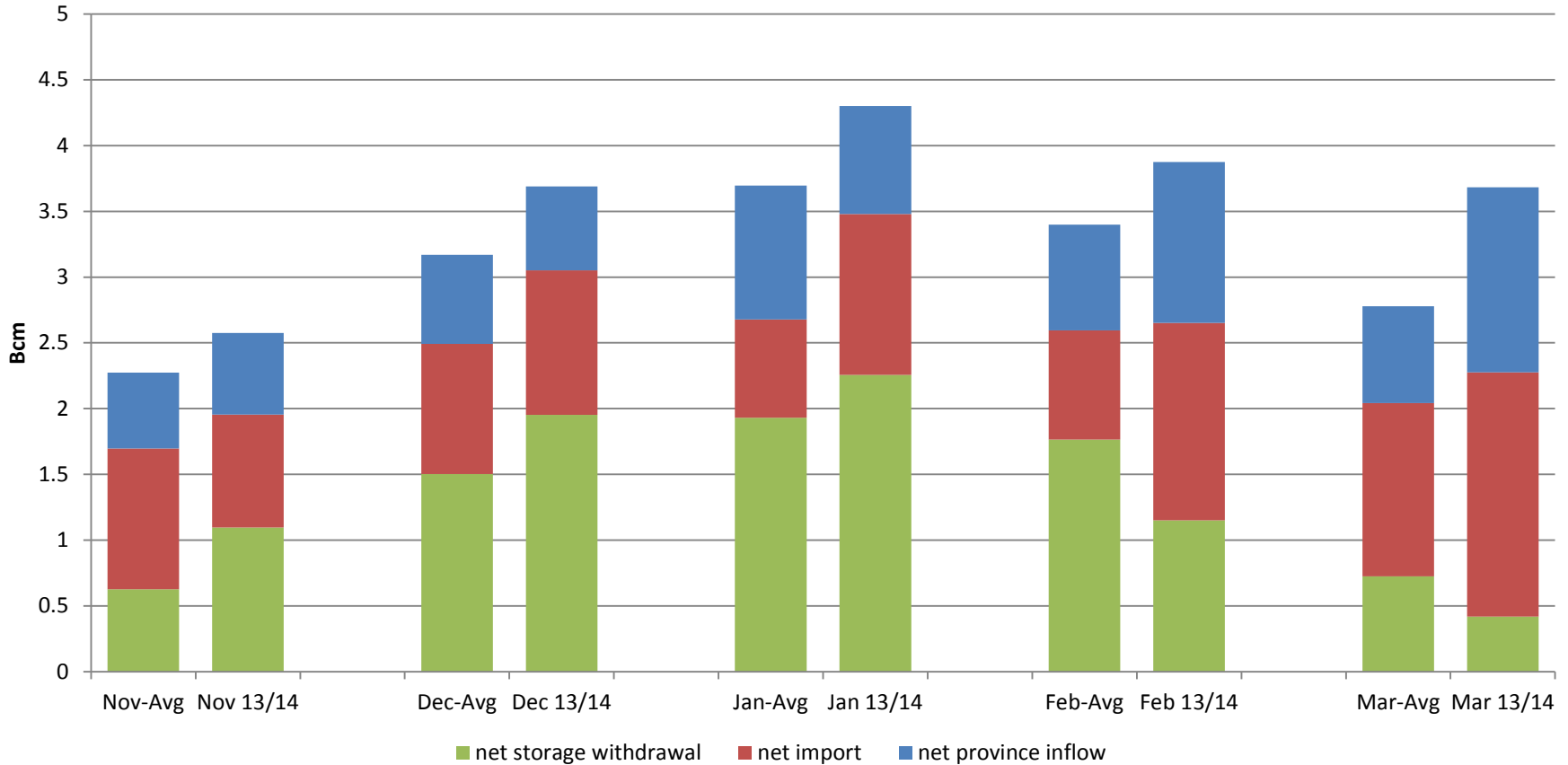
# Winter Season Overview--Storage



Date	Average Storage Level (Bcm)	2013/14 Storage Level (Bcm)	Average Withdrawal for Month (Bcm)	2013/14 Withdrawal for Month (Bcm)	2013/14 withdrawals as percent of normal withdrawals	Avg. Year Percent of Avg. Nov. 1	2013/14 Percent of Avg. Nov 1
11/1/2013	6.7	6.6				100%	99%
11/29/2013	6.5	5.8	0.2	0.8	427%	97%	87%
12/27/2013	5.6	4.2	0.9	1.6	188%	84%	63%
1/31/2014	4.0	1.9	1.7	2.3	139%	59%	28%
2/28/2014	2.7	1.0	1.3	0.9	68%	40%	15%
3/28/2014	2.3	0.6	0.4	0.4	115%	34%	9%

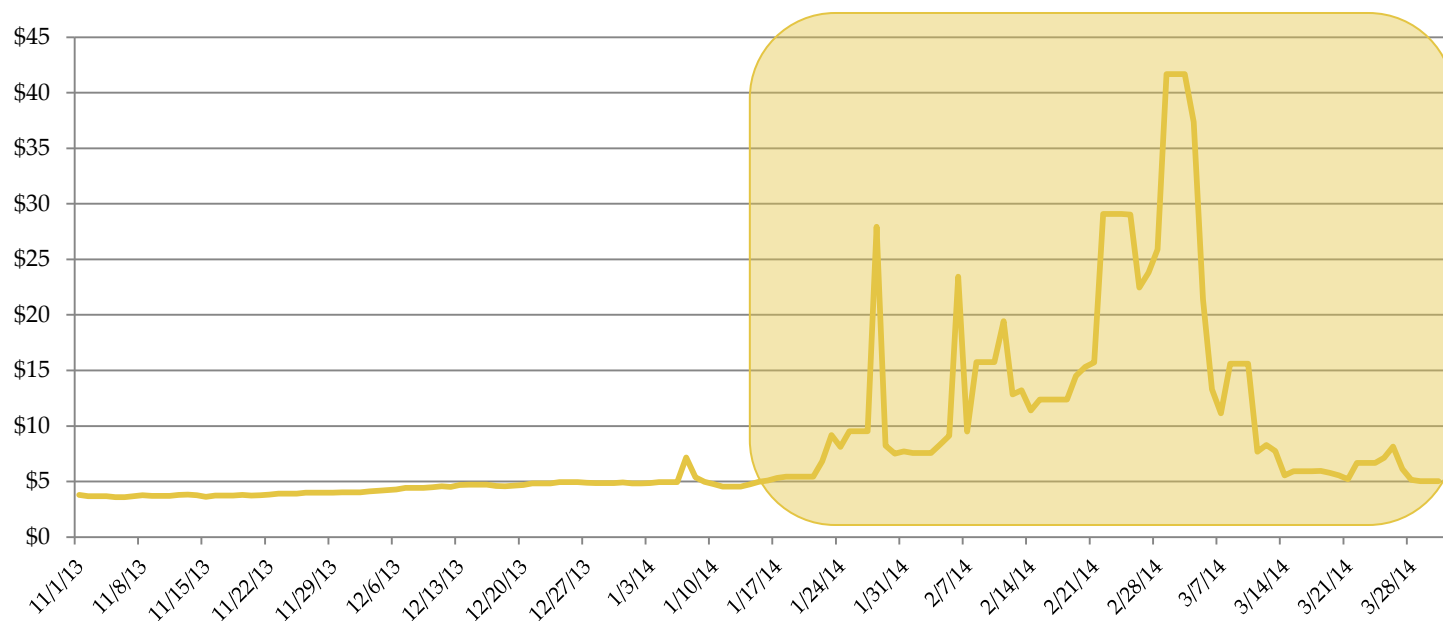
# Winter Season Overview – Gas Supply Mix

**Components of Ontario Gas Supply  
Winter 2013/14 vs. Average of Prior 5 Years**

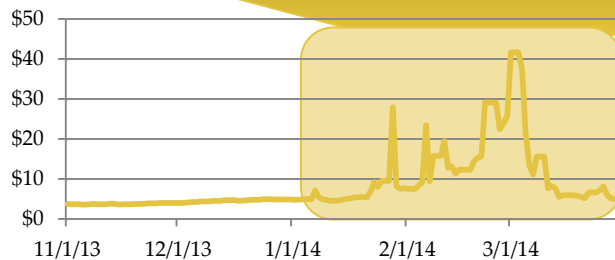
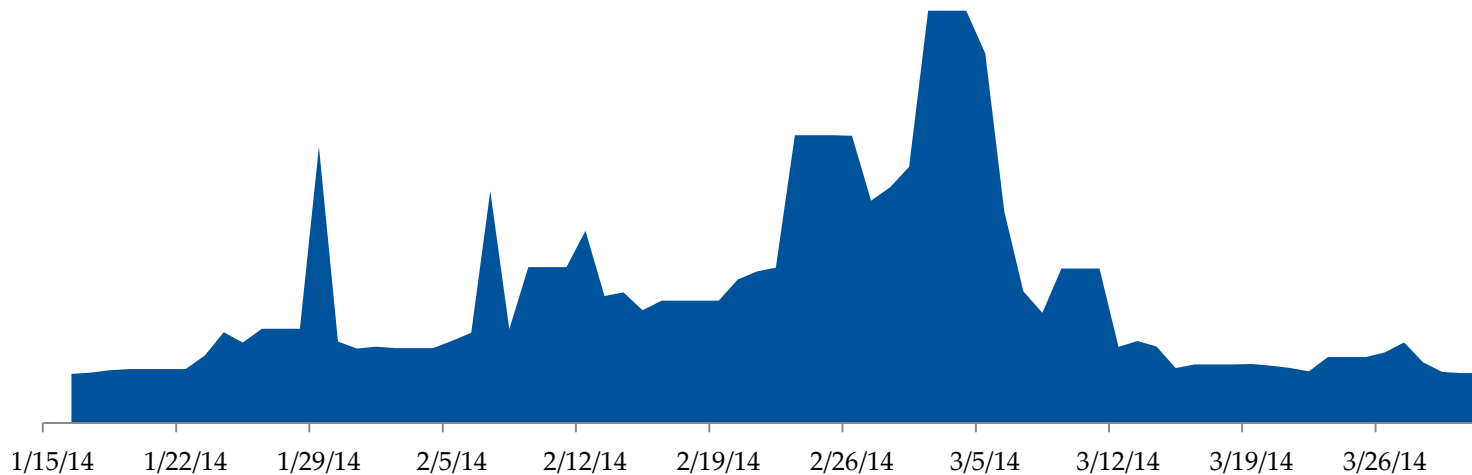




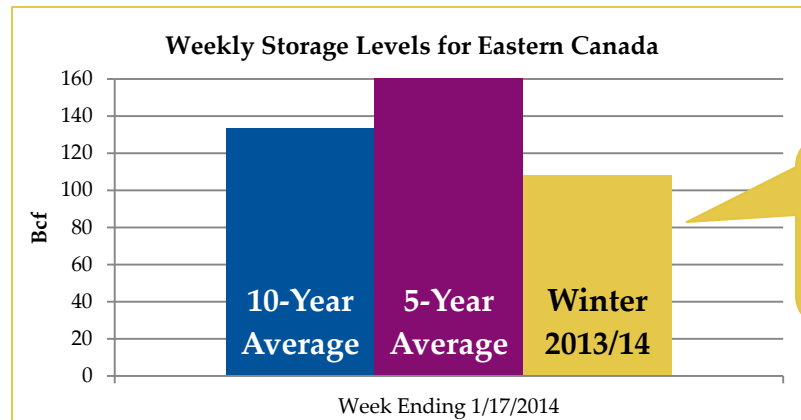
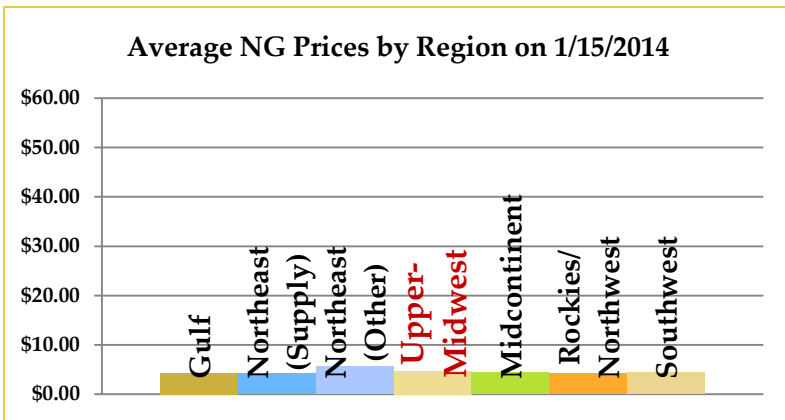
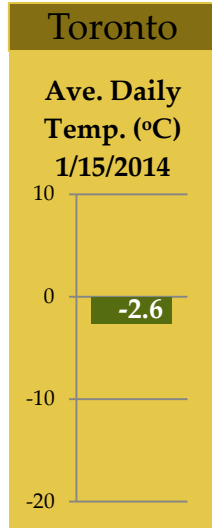
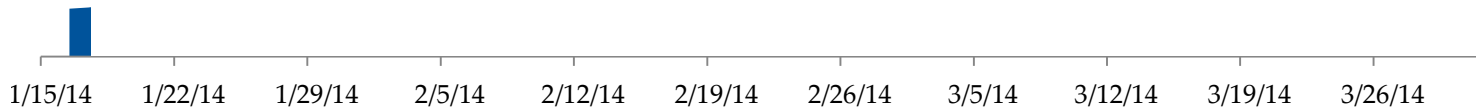
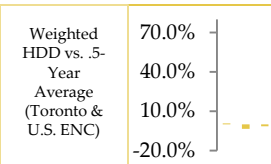
## Pricing at Dawn 11/1/13 to 3/31/14



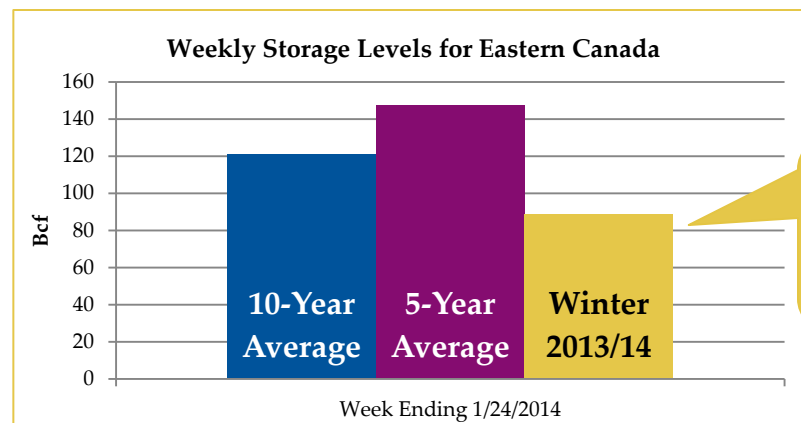
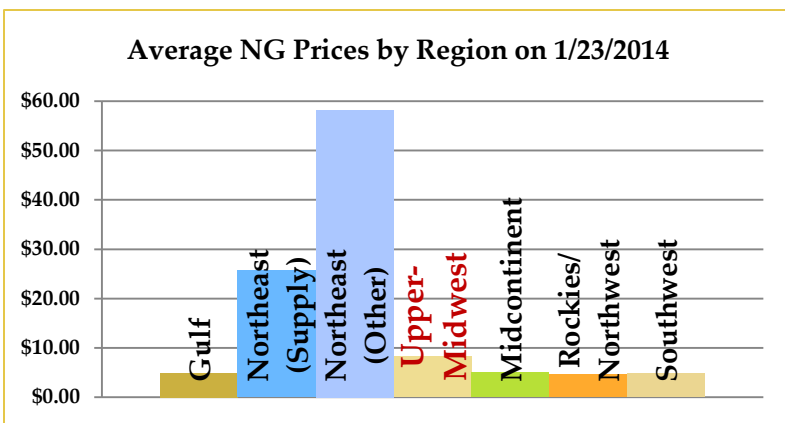
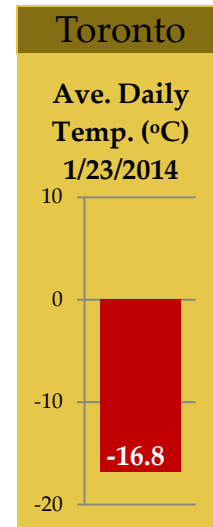
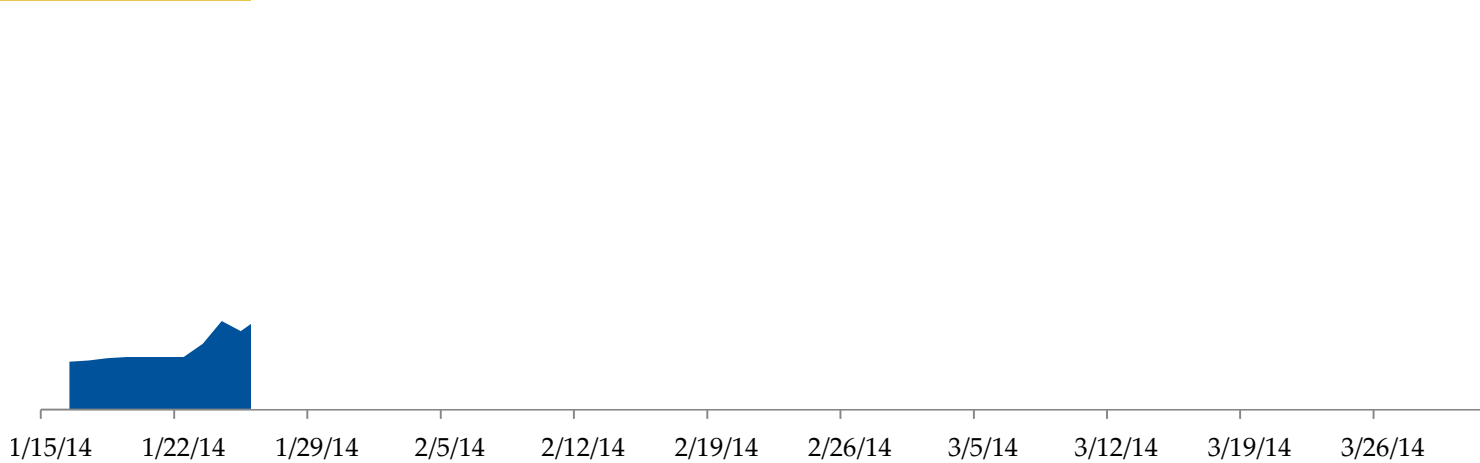
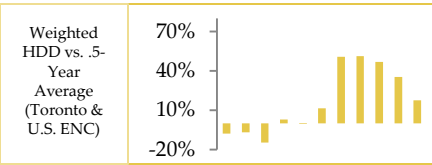
January 22<sup>nd</sup> through March 13<sup>th</sup> is a period of large price swings and continually elevated prices



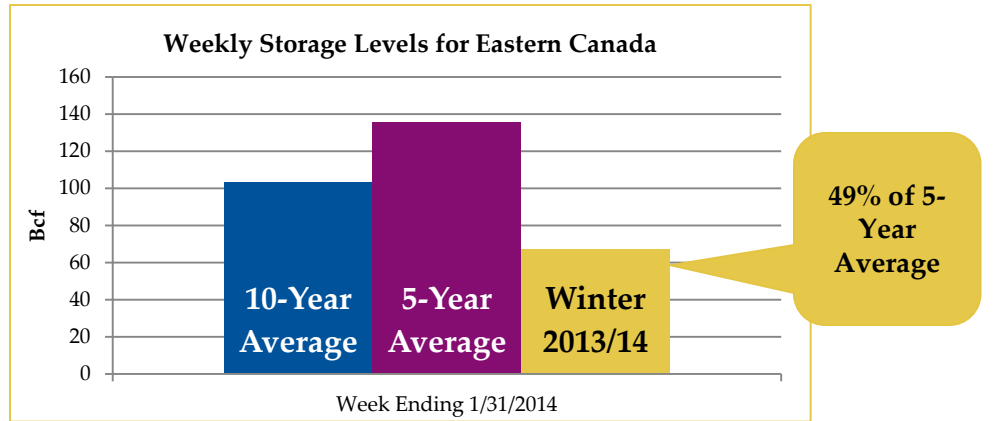
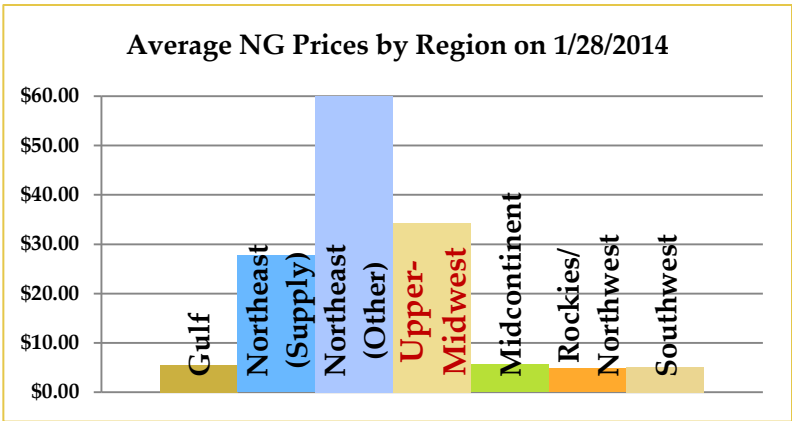
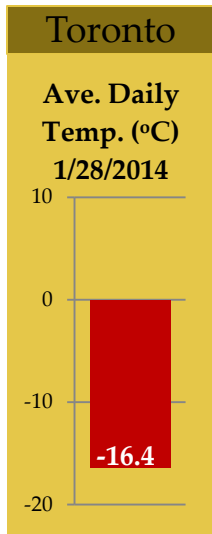
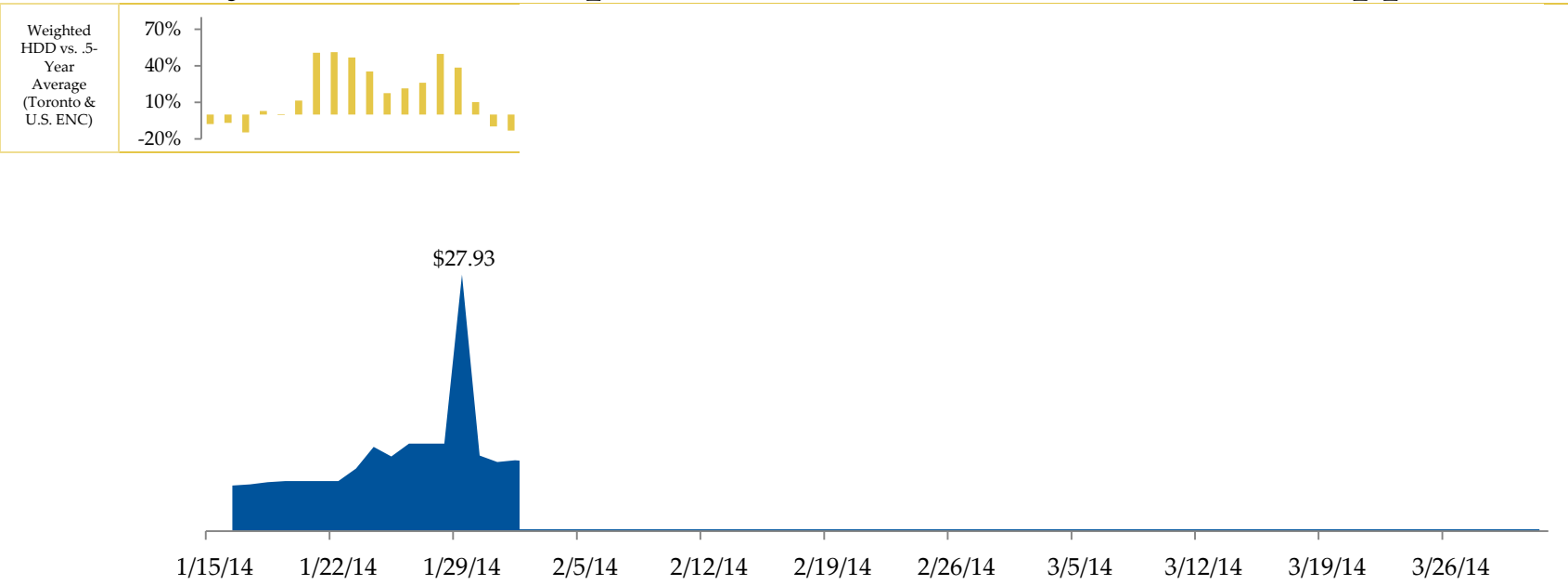
# Prices in Mid-January start off low, with natural gas prices below \$5.00 for most regions



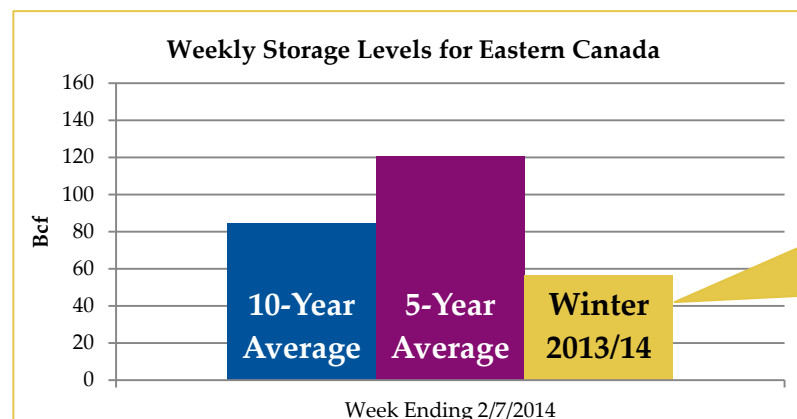
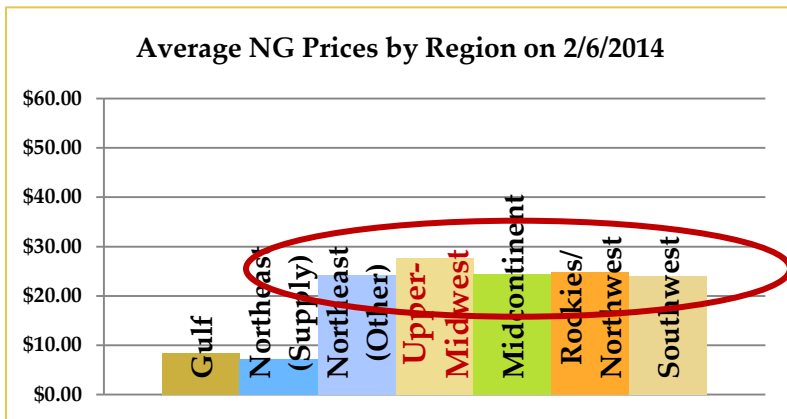
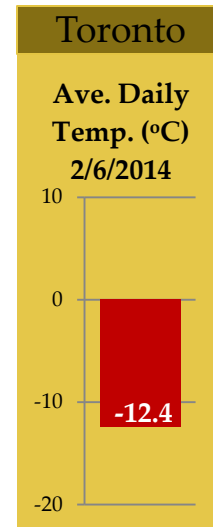
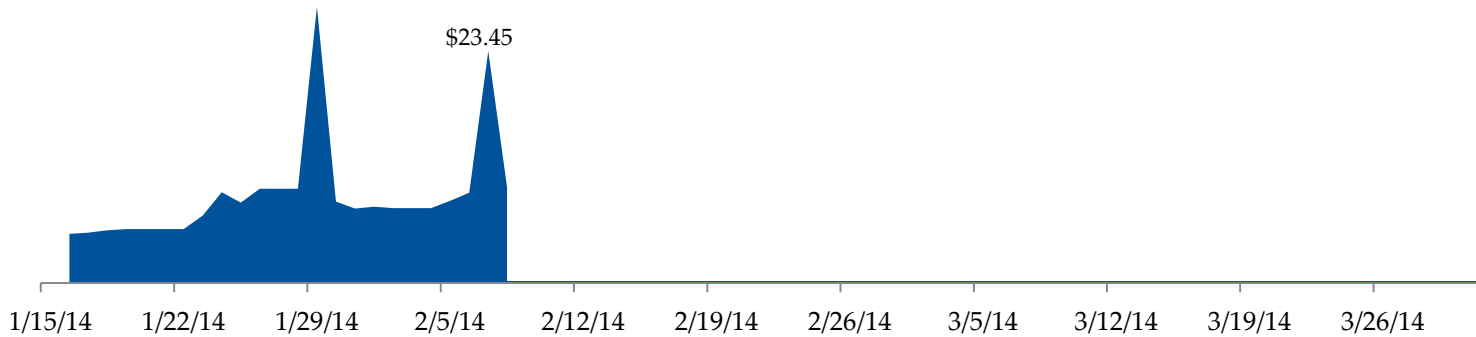
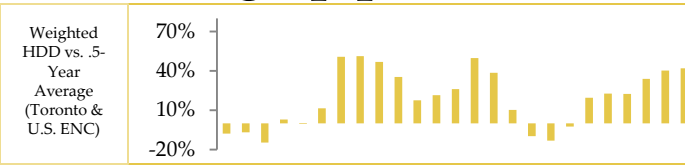
# Prices in January first see a bump on January 23<sup>th</sup>, when temperatures in the U.S. Northeast and Ontario drop



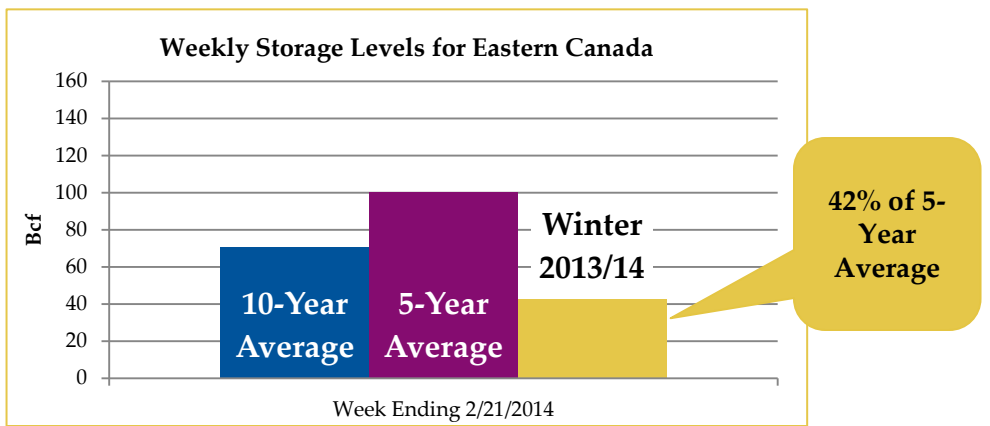
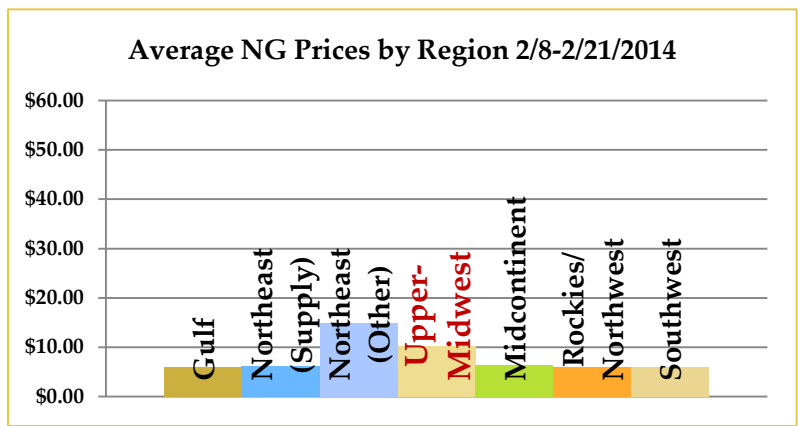
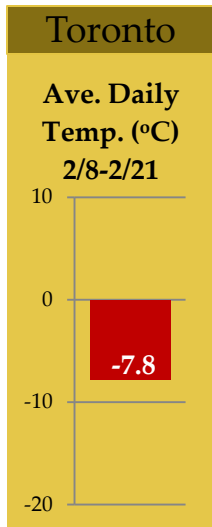
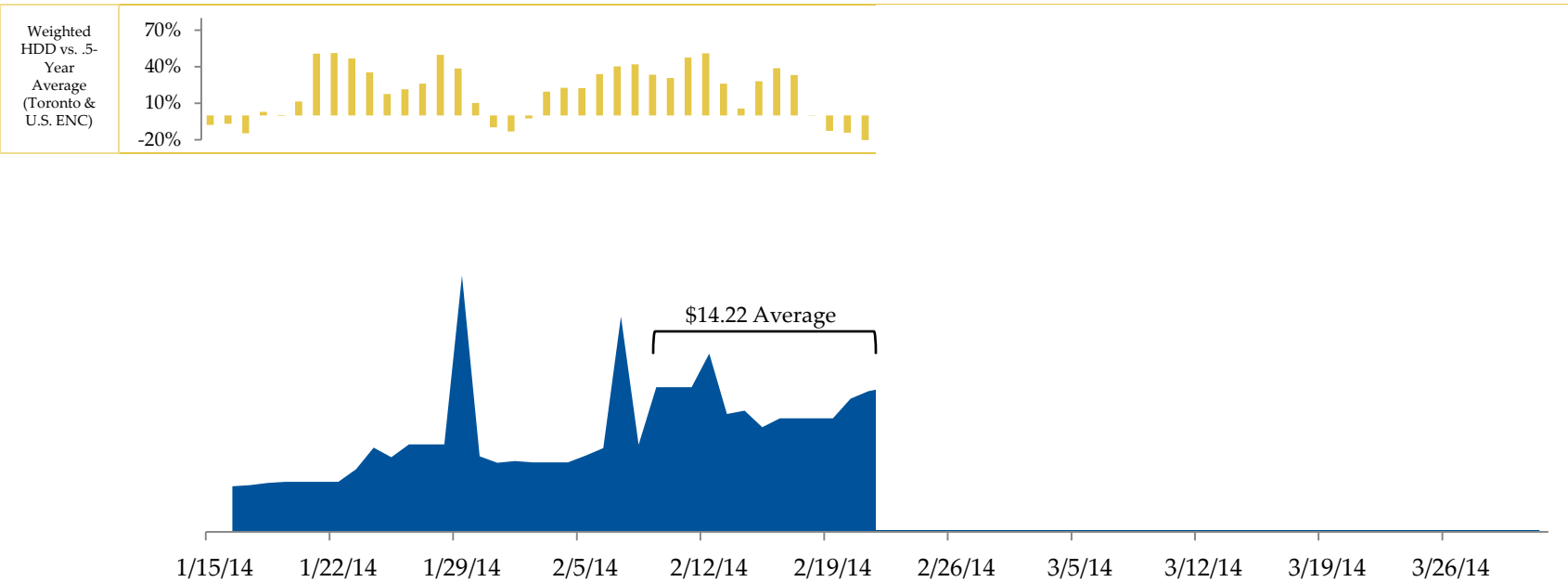
# The break on the TCPL line along with extremely cold weather on January 28<sup>th</sup> increased prices in the U.S. Northeast and Upper-Midwest



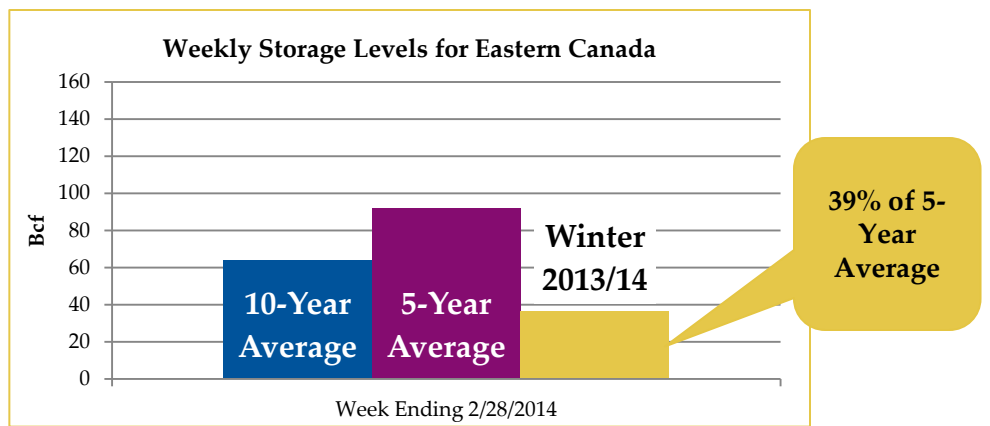
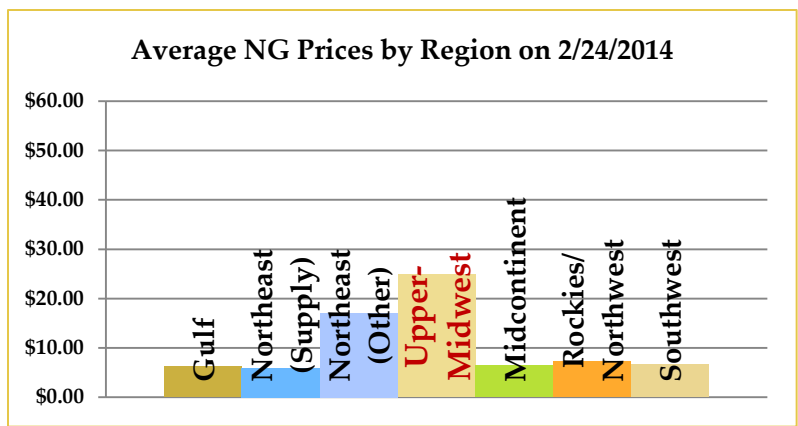
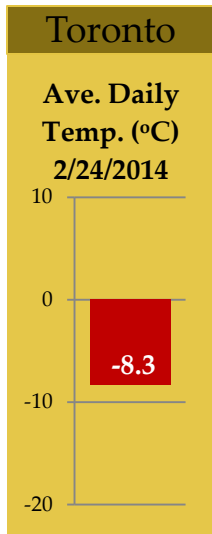
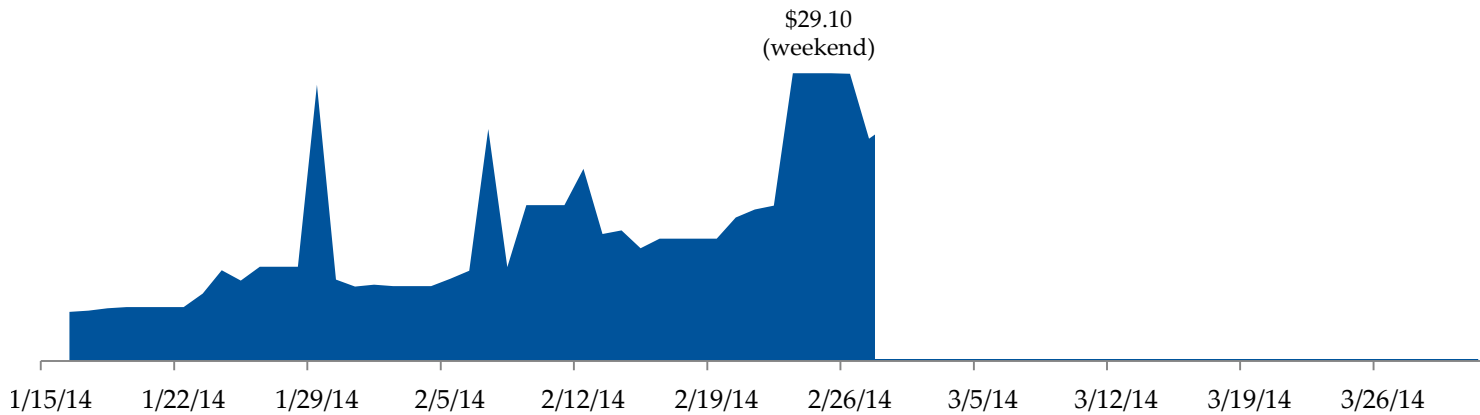
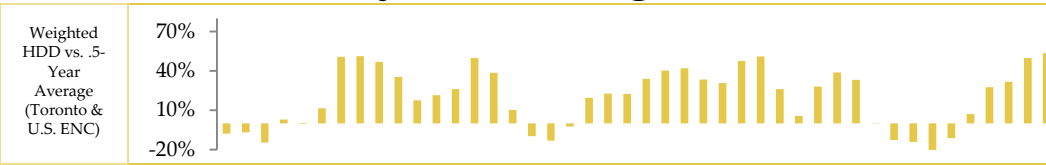
# On February 6, 2014 U.S. HDD was at 43% above its 5-year average, driving up prices across North America



# Sustained cold weather drives storage lower and keeps prices elevated

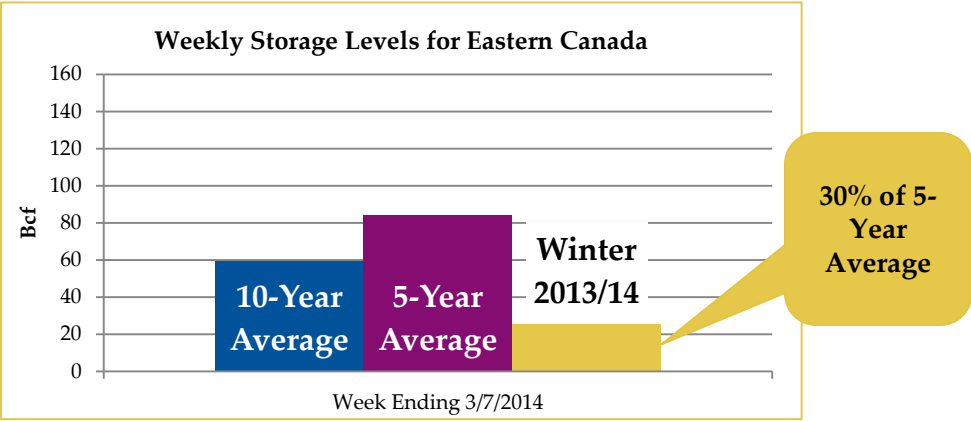
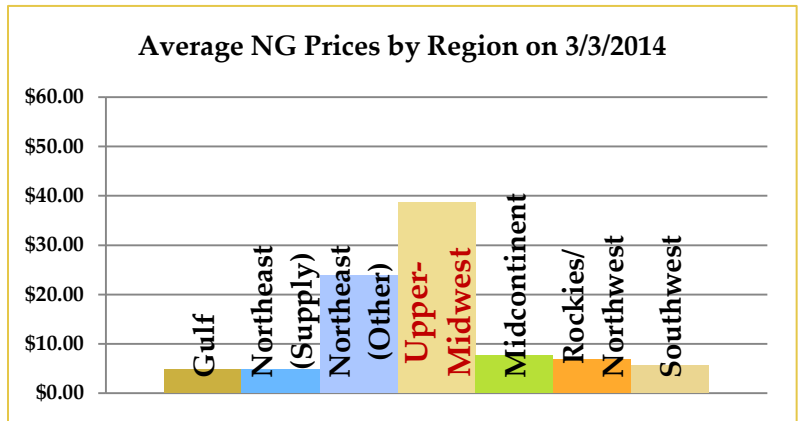
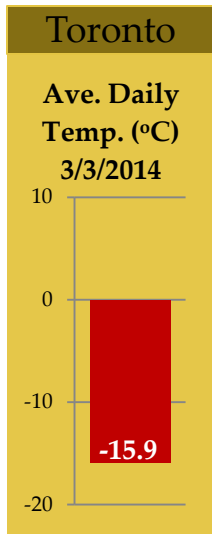
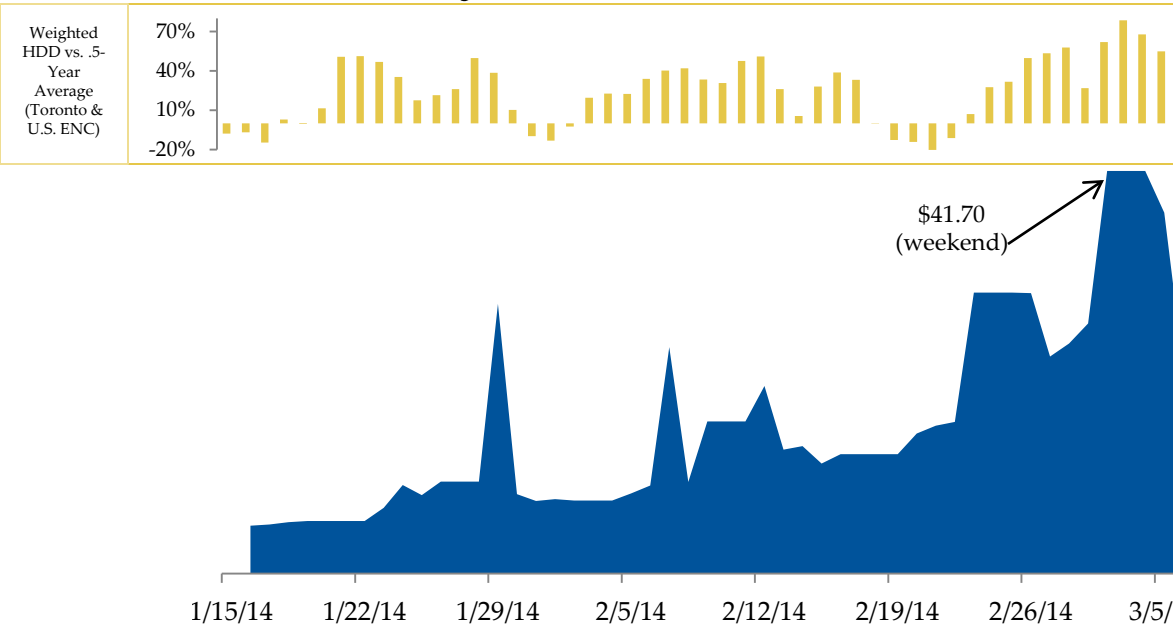


# HDD in Toronto and the U.S. East North Central (ENC) reach 50% above the 5-year average

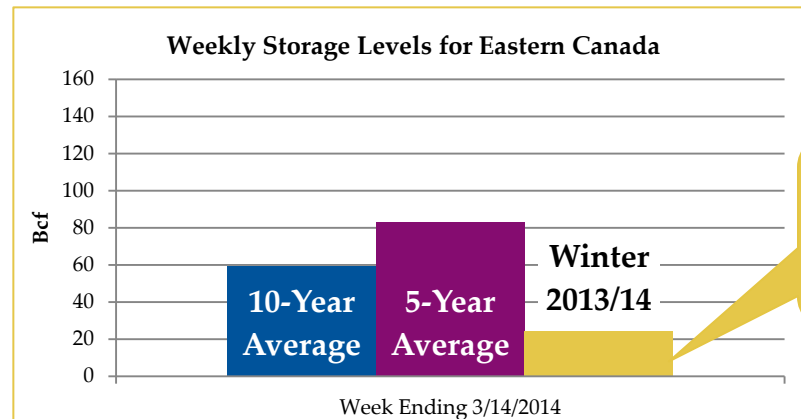
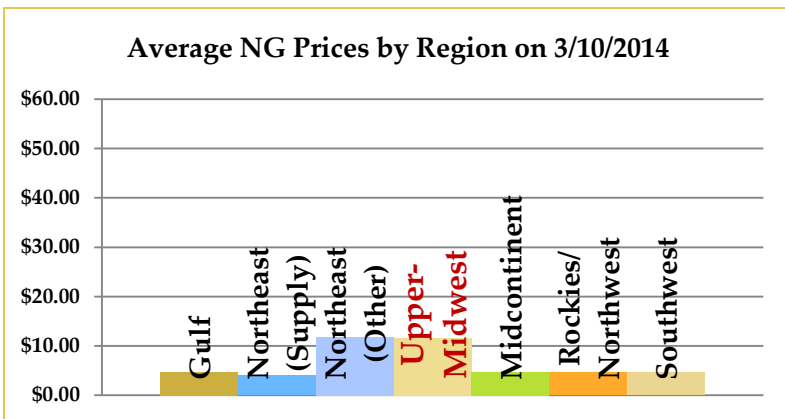
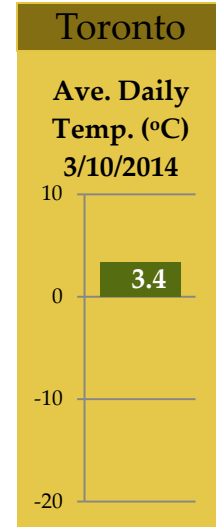
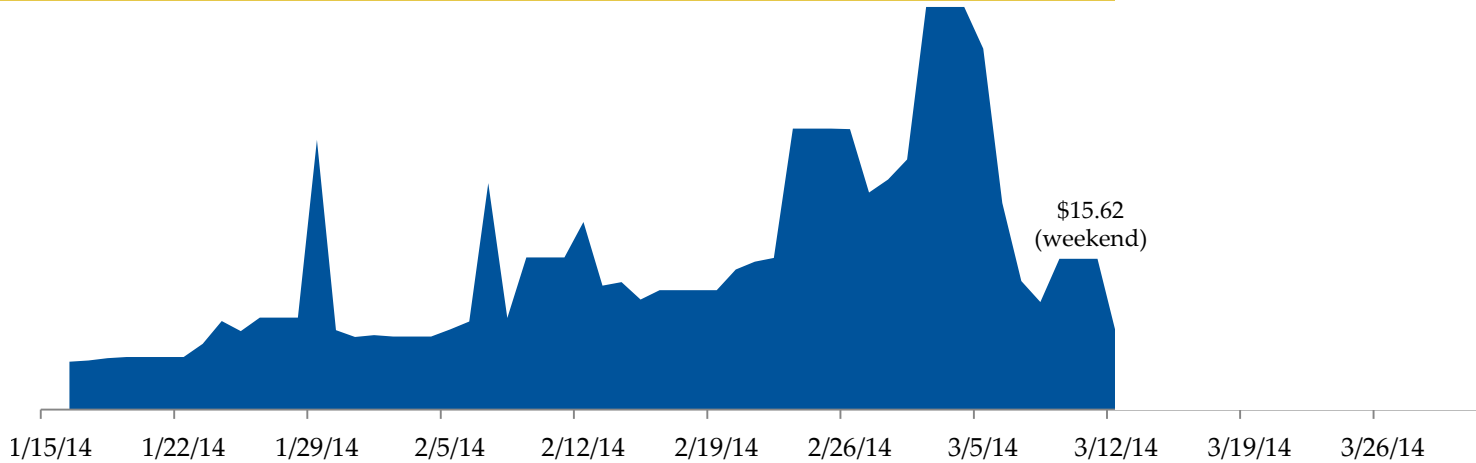
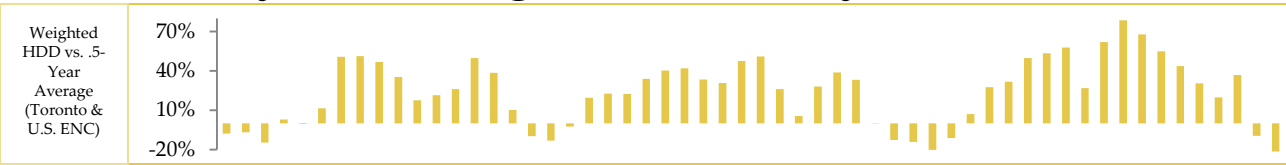




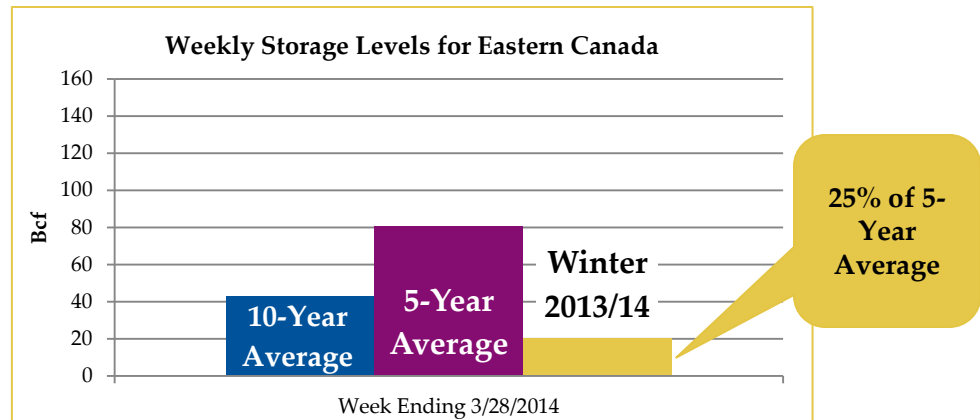
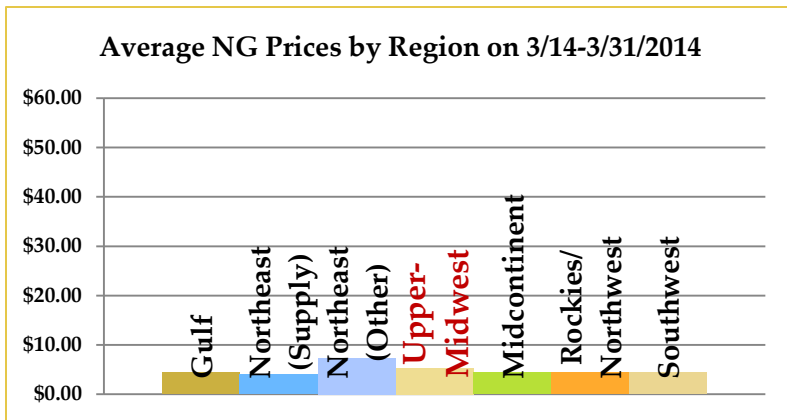
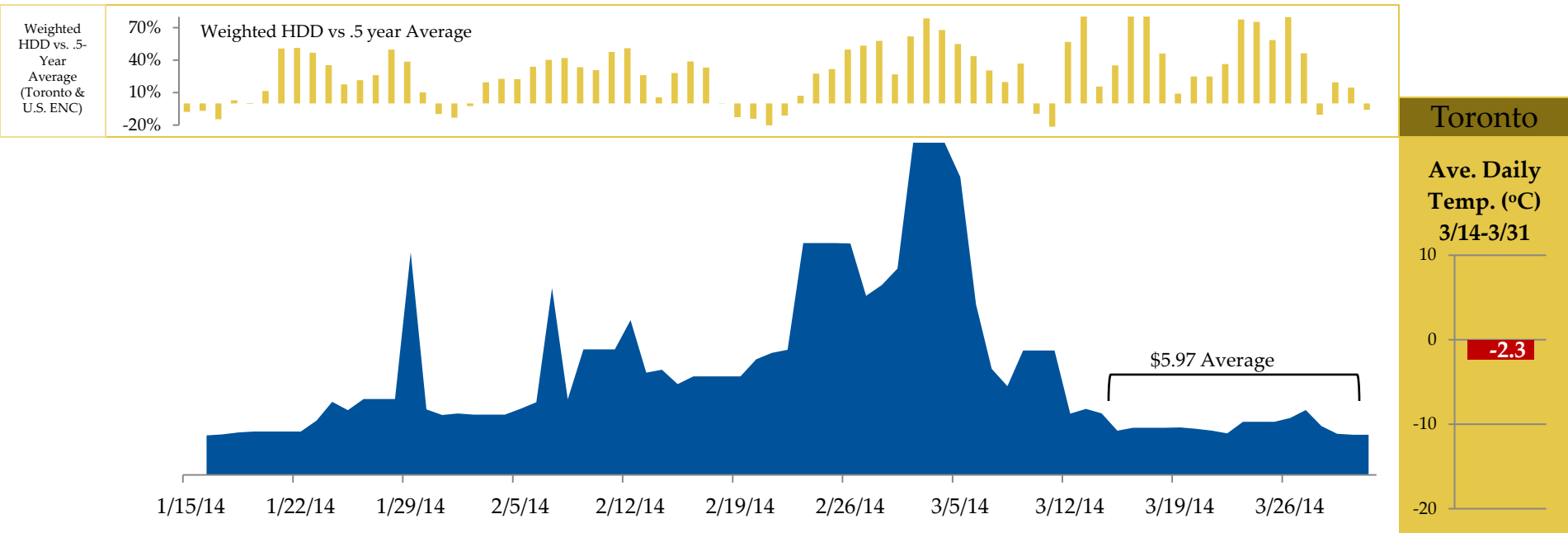
# HDD in Toronto and the U.S. ENC reach 75% above the 5-year average for this time of year



# HDDs begin to fall in Toronto and the U.S. ENC, but still remain above their 5-year average on most days



# Although HDD in Toronto and U.S. ENC remain above average, prices at the end of March remain low due to less extreme weather in the U.S.



## Why?

- » Extreme widespread instantaneous weather over the Eastern US and Ontario
- » Strong Midwest demand impacted prices at Dawn and incited increased storage withdrawals in Ontario
- » Large early withdrawals necessitated additional spot purchases on persistent cold
- » Annual 'Checkpoint' balancing by Union direct purchase customers coincided with ongoing need to meet demand on weather
- » Increased interruptible transport tolls at Empress eventually lead to more supply to be met from the U.S. Northeast and Midwest, which eventually supported Dawn prices
- » The winter of 2013/14 appeared to be the coincidence of early, widespread and persistent and historical high demand as a result of regional weather conditions
- » It is not clear whether the same price impacts would have occurred had Ontario utility supply plans called for more base storage and/or firm transportation, however both may have helped. Some increased costs however would have been incurred by the utilities for both storage and transportation.
- » More conservative (perhaps ratable) supply plan storage management may also have helped.

## QRAM

- » The Quarterly Rate Adjustment Mechanism (QRAM) is Ontario's mechanism to allow gas distributors to recover their actual gas costs.
- » The cost factors that could potentially be impacted by operational, managerial and regulatory policies, procedures, directives and decisions of a gas distribution company or its regulator include the following:
  - weather assumptions,
  - design day criteria,
  - demand forecasts,
  - firm transportation planning criteria,
  - storage level planning,
  - use of peaking supplies, and
  - procurement mechanisms for incremental supply.
- » Choices made with respect to these factors likely involve cost and risk trade-offs dependent on an entity's risk profile and the array of potential risks.

# Key CONTACTS



**Gordon Pickering**

Director

Folsom, CA

(916) 631-3249

[gpickering@navigant.com](mailto:gpickering@navigant.com)

**Jeff Van Horne**

Managing Consultant

Folsom, CA

(916) 631-4002

[jvanhorne@navigant.com](mailto:jvanhorne@navigant.com)

**Todd Williams**

Managing Director

Toronto, Canada

(647) 288-5204

[twilliams@navigant.com](mailto:twilliams@navigant.com)