

# Canadian Natural Gas

## »» Monthly Market Update

**April 2006**

»» Natural Gas Division  
Petroleum Resources Branch  
Energy Policy Sector



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada 

## Foreword

The *Canadian Natural Gas: Monthly Market Update* is a monthly working paper prepared by the Natural Gas Division of Natural Resources Canada.

### Structure and Format of the Report

This five page report provides the most recently available data on natural gas prices and on key fundamentals affecting prices.

To the right is an Executive Summary, which provides a brief, up-to-date overview of natural gas market fundamentals. For those interested in reading ahead, the remainder of the report consists of graphs, with limited text and comments associated with each. The text provides a short description of the natural gas market fundamental, followed by a simple comparative analysis (i.e., year-over-year or month-over-month) of the data contained within the figure.

Beginning in January 2005, this report has been formatted in landscape orientation to be more easily read on a computer screen.

### Sources

Various sources are used in developing this report, including Statistics Canada, Canadian Enerdata, Daily Oil Bulletin, the National Energy Board and GLJ Energy Publications.

If you have any comments, suggestions or questions please contact Paul Cheliak at 995-0422, or by email at

[pcheliak@nrcan.gc.ca](mailto:pcheliak@nrcan.gc.ca)

## Executive Summary

The chart below depicts year-over-year percentage changes (given the most recently available month of data) in natural gas prices, heating degree days (weather), natural gas domestic sales and exports, storage, drilling, and natural gas production.

Natural Gas Market Fundamental	Percentage Change	
	+	-
Prices		11%
Heating Degree Days (HDD's)	--	--
Sales		6%
Exports		12%
Storage	69%	
Drilling		10%
Production		6%

**PRICES:** CDN \$6.33/GJ in April 2006; a decrease of 11%

**HDD's:** 632 in February; no change

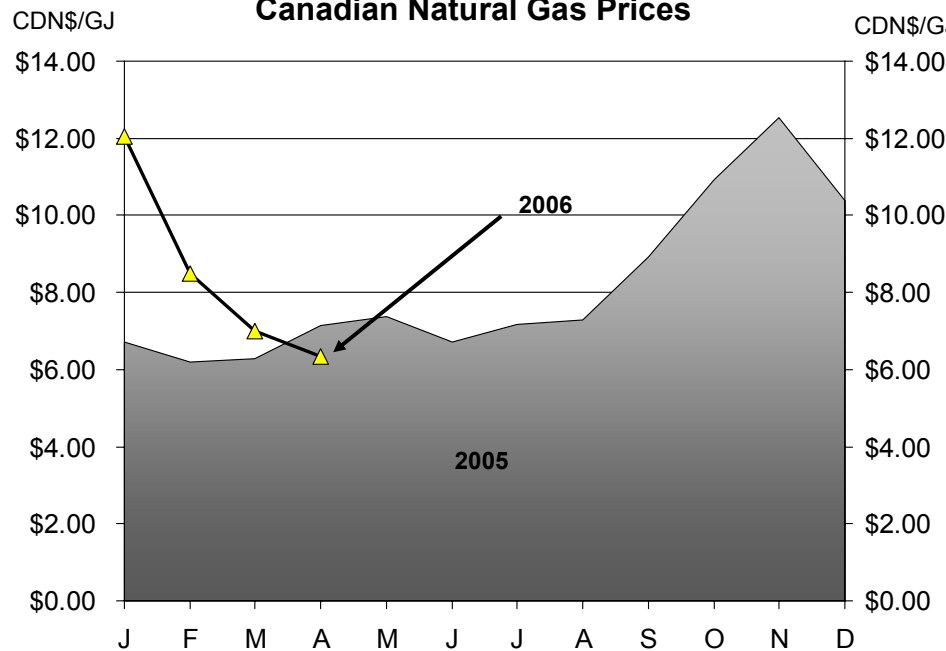
**SALES:** 279 Bcf in February 2006; a decrease of 6%

**EXPORTS:** 270 Bcf in February 2006; a decrease of 12%

**STORAGE:** 219 Bcf in April 2006; an increase of 69%

**DRILLING:** 1,722 in April 2006; a decrease of 10%

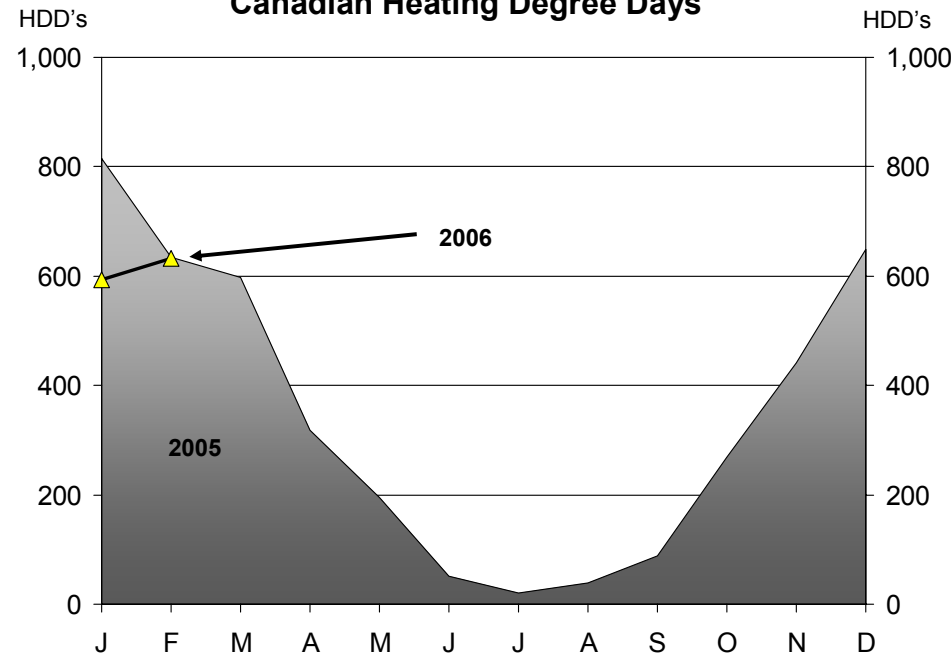
**PRODUCTION:** 453 Bcf in February 2006; a decrease of 6%

**Figure 1****Canadian Natural Gas Prices**

**Source:** GLJ Energy Publications **Note:** Canadian price is the Alberta price at the AECO hub.

Figure 1 illustrates the price of natural gas at the major Canadian pricing point – the intra-Alberta market. The price is for gas delivered under a 30-day contract. The intra-Alberta market is formed by gas delivered to pipelines in Alberta. Gas changes hands via Nova Inventory Transfers (NIT), exchanges at the AECO storage hub, or sales facilitated by the Natural Gas Exchange (NGX). This is a commodity price – a wholesale price in the producing area. Consumer (or “burner tip”) prices will also include pipeline transmission and distribution costs, which vary across Canada. Natural gas is commonly measured in gigajoules (GJ) or cubic metres. A gigajoule is an energy unit, which equates to about 27 cubic metres of natural gas.

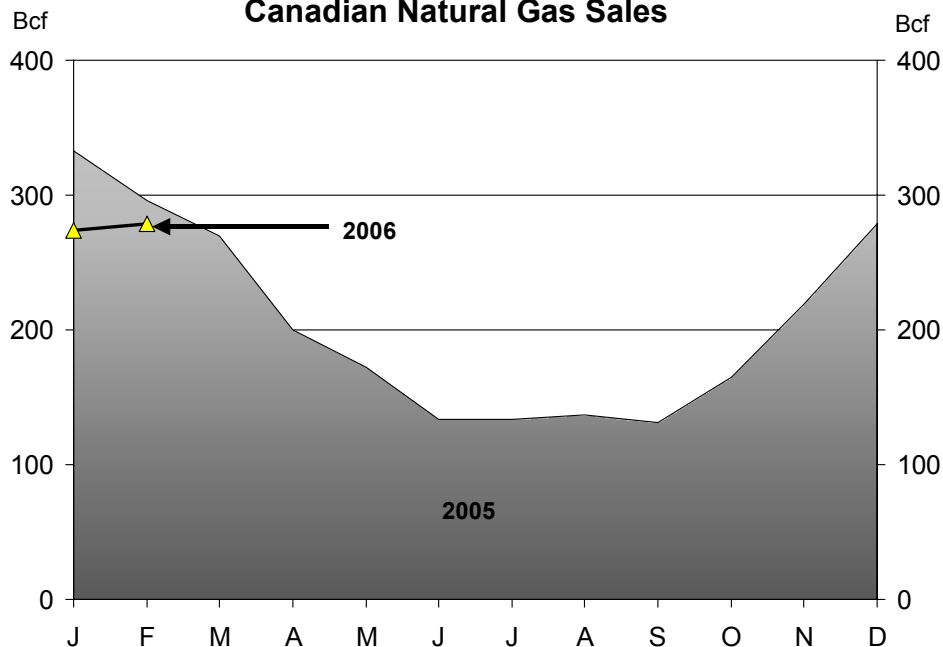
Canadian natural gas commodity prices were CDN \$6.33/GJ in April 2006, 10% lower than the previous month and 11% lower than April 2005.

**Figure 2****Canadian Heating Degree Days**

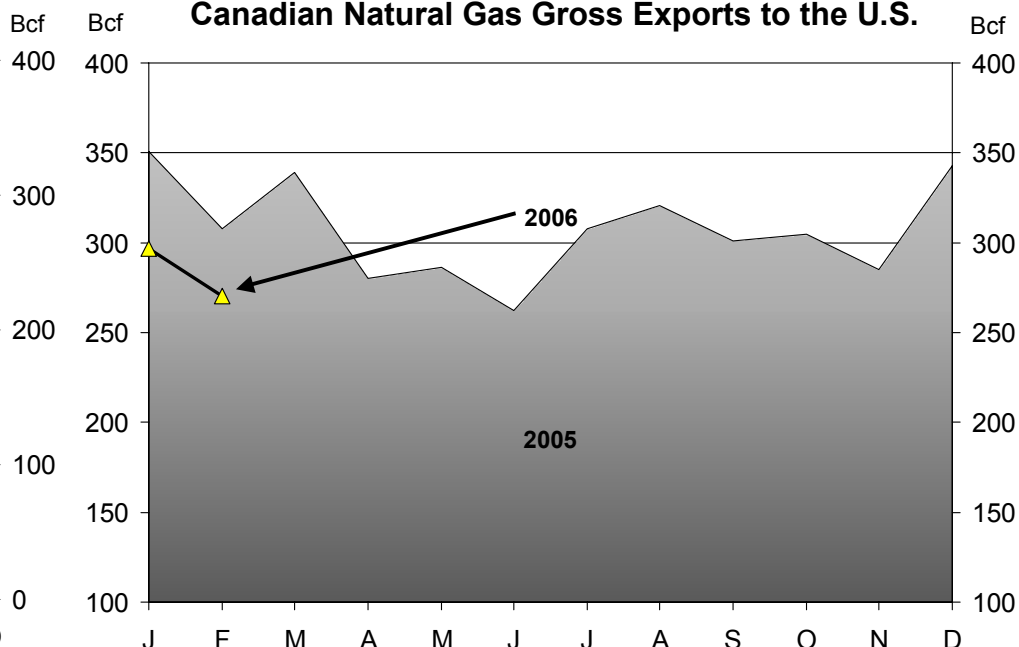
**Source:** Statistics Canada

Figure 2 shows Canadian Heating Degree Days (HDD's), which are a measure of how cold it is. The more HDD's in any season, the greater is natural gas demand for space heating. If the winter is unusually cold, demand will respond accordingly and natural gas prices will tend to be stronger. However, if the winter is mild, demand will be weaker, which will tend to moderate prices.

In February 2006, there were 632 HDD's, the same as in February 2005. Temperatures in February 2006 were 4% warmer than normal.

**Figure 3****Canadian Natural Gas Sales**

**Source:** Statistics Canada **Note:** Most recent month is a preliminary figure.

**Figure 4****Canadian Natural Gas Gross Exports to the U.S.**

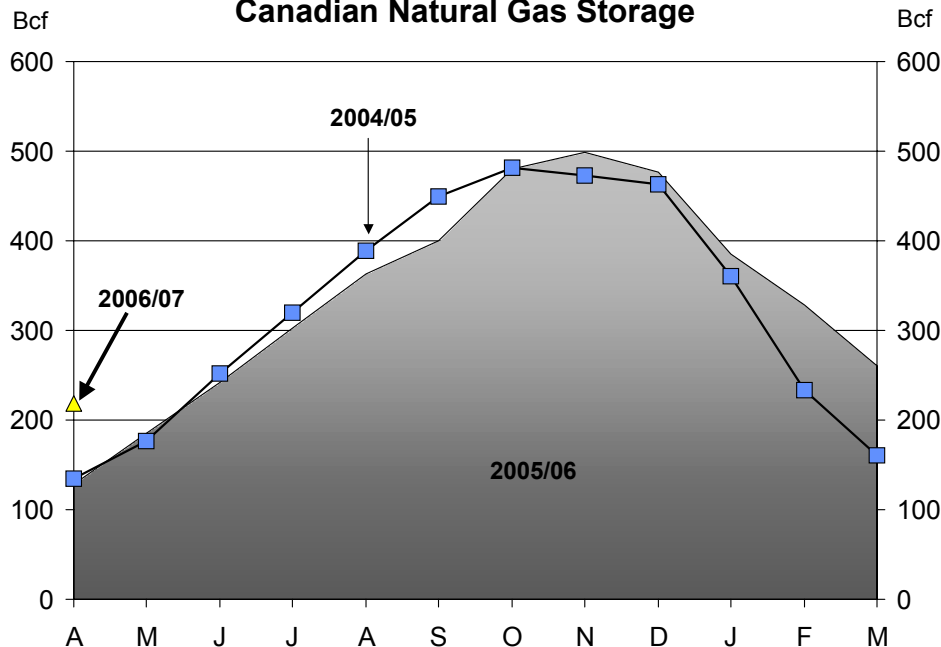
**Source:** National Energy Board

Figure 3 illustrates total Canadian natural gas sales. Sales include all natural gas sold to residential and commercial users (for space and water heating, cooking, etc), industries and electricity generating units in Canada. The totals do not include consumption by the natural gas industry itself (e.g., pipeline compressor fuel).

Natural gas sales to Canadian consumers in February 2006 were 279 Bcf, 6% lower than February 2005.

Figure 4 illustrates natural gas exports to the U.S.. Canadian natural gas requirements are met entirely by domestic sources, as Canada produces natural gas in excess of what is required for domestic consumption. In comparison, the U.S. consumes more natural gas than it produces, therefore natural gas imports are required to make up the difference. Typically, Canada exports between 50 and 60 per cent of its gas production.

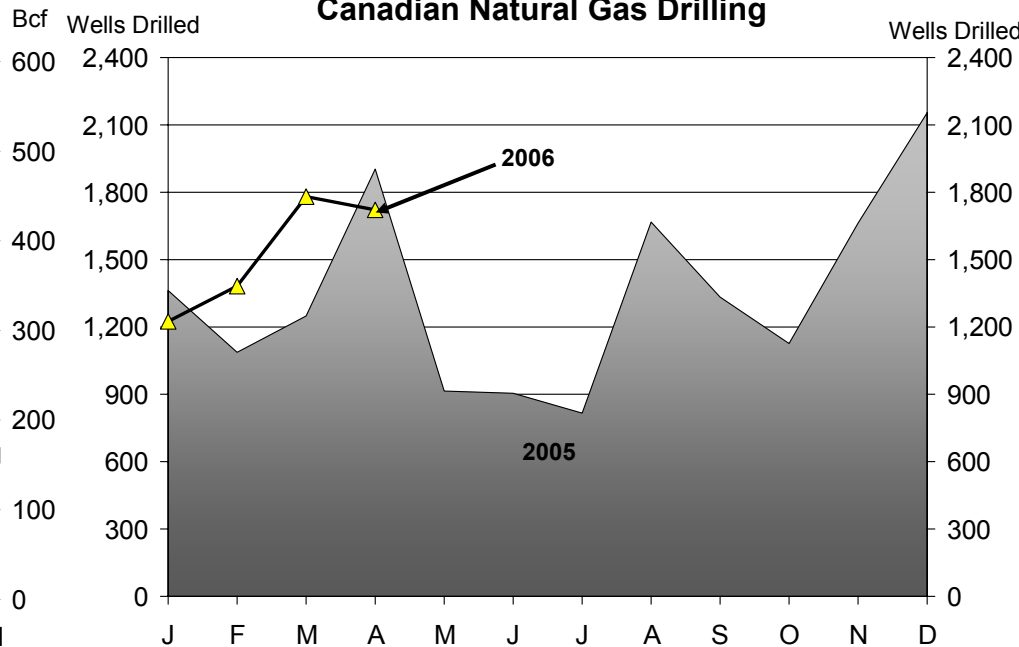
In February 2006, natural gas exports to the U.S. were 270 Bcf, 12% lower than February 2005.

**Figure 5****Canadian Natural Gas Storage**

Source: Canadian Enerdata

Figure 5 indicates natural gas storage levels in Canada. The amount of gas in storage generally follows a seasonal pattern. In the summer, when natural gas demand is low, gas is injected into storage. Storage volumes peak in the fall. In winter, volumes are drawn down, reaching a low point in the spring.

Canadian natural gas storage inventories decreased by 42 Bcf during the month of March 2006. Storage levels at the beginning of April 2006 were 219 Bcf, 69% higher than those of April 2005.

**Figure 6****Canadian Natural Gas Drilling**

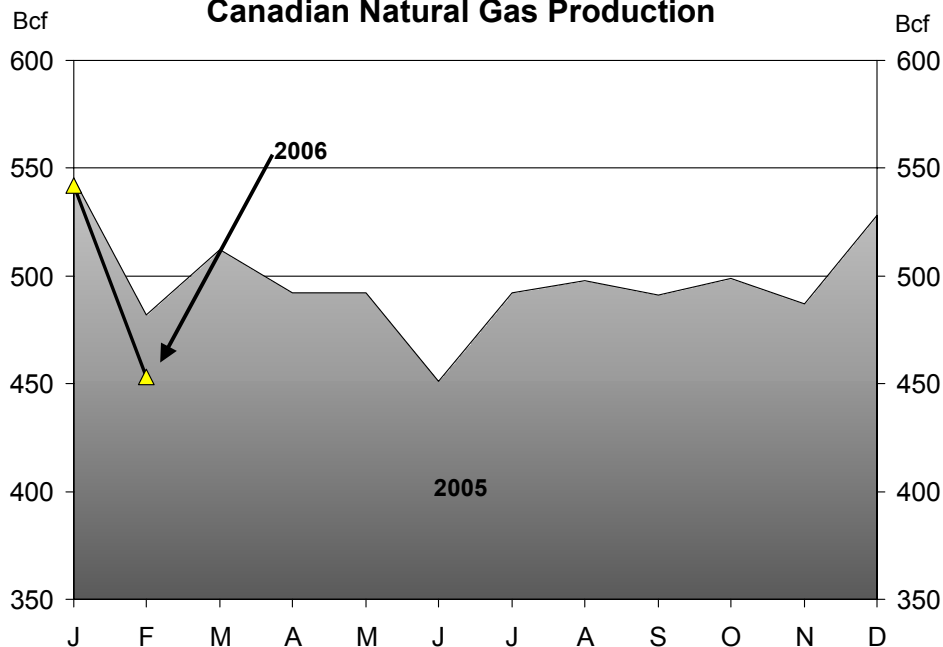
Source: Daily Oil Bulletin

Figure 6 depicts the number of natural gas well completions in Canada. There is a time-lag between drilling a gas well and starting production, due to the work necessary to connect the new well to the pipeline grid. Drilling is therefore a good indicator of future natural gas supply.

There were 1,722 natural gas wells drilled in April 2006, a decrease of 10% compared to April 2005.

**Figure 7**

**Canadian Natural Gas Production**



**Source:** Statistics Canada **Note:** Most recent month is a preliminary figure.

Figure 7 shows marketable natural gas production in Canada. Marketable natural gas is the gas available for consumption after processing and excludes producer or plant uses.

Marketable natural gas production was 453 Bcf in February 2006, 6% lower than in February 2005.

**Bibliography and Data Sources**

1. *Crude Oil and Natural Gas (Preliminary)*, Statistics Canada
2. *Natural Gas Transportation and Distribution, 55-002*, Statistics Canada
3. *Supply and Disposition of Crude Oil and Natural Gas, 26-006*, Statistics Canada
4. *Drilling Highlights*, Daily Oil Bulletin website: [www.dailyoilbulletin.com](http://www.dailyoilbulletin.com)
5. *Canadian Natural Gas Focus*, GLJ Energy Publications Inc.
6. *Natural Gas Storage Survey*, Canadian Enerdata Ltd.
7. *Natural Gas Export Statistics*, National Energy Board website: [www.neb-one.gc.ca](http://www.neb-one.gc.ca)