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An Empirical Study of Credit Shock Transmission in a Small Open Economy

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An Empirical Study of Credit Shock Transmission in a Small Open Economy

Nathan Bedock^{*}, Dalibor Stevanović[†]

Résumé / Abstract

In this paper we identify and measure the effects of credit shocks in a small open economy. To incorporate information from a large number of economic and financial indicators we use the structural factor-augmented VARMA model. In the theoretical framework of the financial accelerator, we approximate the external finance premium with credit spreads. We find that an adverse global credit shock generates a significant and persistent economic slowdown in Canada; the Canadian external finance premium rises immediately while interest rates and credit measures decline. Variance decomposition reveals that the credit shock has an important effect on real activity measures, including price and leading indicators, and credit spreads. On the other hand, an unexpected increase in the Canadian external finance premium shows no significant effect in Canada, suggesting that the effects of credit shocks in Canada are essentially caused by the unexpected changes in foreign credit market conditions. Given the identification procedure our structural factors have an economic interpretation.

Mots clés/*Keywords* : Credit shock, structural factor analysis, factoraugmented VARMA.

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1 Introduction

The current economic downturn suggests that there is information in the financial sector that has not been integrated into our understanding of macroeconomics. Studies by Stock and Watson (1989,2003), Estrella and Hadrouvelis (1991), Gertler and Lown (1999), Diebold *et al.* (2006), Mueller (2007), and Gilchrist, Yankov, and Zakrajsek (2009) have shown that there is predictive content in financial series. The results in Forni *et al.* (2003) show that financial variables are important when forecasting inflation rates but do not help in predicting industrial production, which is also confirmed in Espinoza *et al.* (2009). Moreover, the nonneoclassical monetary policy transmission mechanisms which are related to credit markets are theoretically and empirically under-documented. Here, we propose to empirically measure the impact of credit shocks in Canada within this theoretical framework.

Due to the complexity of credit markets, we doubt that their informational content can be synthesized in as few variables as a vector autoregressive (VAR) model allows us. In order to incorporate information from a large number of economic and financial indicators, we will use the structural factor analysis approach proposed by Bernanke *et al.* (2005), Marcellino and Kapetainous (2005), and Stock and Watson (2005), among others. In particular, we will use a factor-augmented VARMA (FAVARMA) model proposed by Dufour and Stevanovic (2010). This is a theoretically coherent model with an approach that combines two dimension reduction techniques: factor analysis and VARMA modeling. The identification of structural shocks is achieved by imposing a recursive structure on the impact matrix of the structural MA representation of observable variables.

Similar studies have been made for the US economy by Boivin, Giannoni, and Stevanovic (2009b) (BGS hereafter) and Gilchrist, Yankov, and Zakrajsek (2009). Both studies find that credit shocks have wide effects on the economy that are consistent with a significant economic slowdown. Pesaran et al. (2006) use the global VAR model to link the firm-specific changes in the credit portfolio to macroeconomic business cycles. Safei and Cameron (2003) and Atta-Mensah and Dib (2008) have studied the dynamics of the Canadian credit market, the former employing a structural VAR approach, the latter using a general equilibrium approach. The conclusions drawn by Safei and Cameron (2003) show a lack of robustness, suggesting that there is information missing in their structural VAR models. The present exercise tries to correct this problem by using a large data set. The results of Atta-Mensah and Dib (2008) are more coherent with the dynamic stochastic general equilibrium (DSGE) literature describing credit market models, except that they consider Canada as a closed economy. Our methodology will allow us to include more information about the global financial market and to simulate shocks from outside of Canada, which will be important in our following

discussion.

Our results show that an unexpected increase in the external finance premium on global financial markets, approximated by the US credit spread, generates a significant and persistent economic slowdown in Canada. Canadian credit spreads rise immediately, while interest rates and credit measures decline. Contrary to existing work on the Canadian economy, we find that price indexes fall persistently¹. Since we do not impose timing restrictions on forward-looking variables, these leading indicators respond negatively on impact, as expected. This gives a more realistic picture of the effect of credit shocks on the economy and provides information about the transmission mechanism of these shocks. According to R^2 results, the common component captures an important dimension of the business cycle movements. From the variance decomposition analysis, we observe that the credit shock has an important effect on several real activity measures including price indicators, leading indicators, and credit spreads.

Another piece of important empirical evidence concerns the identification of national financial shocks. Previous studies have treated Canada as a closed economy when identifying a credit shock and have found some real effects. Our results suggest that there is no significant effect of domestic shocks in Canada. Indeed, the effects of credit shocks in Canada are essentially caused by unexpected changes in foreign credit market conditions.

In robustness analysis, we compare our benchmark results after the US credit shock to two other factor representations with different identification schemes. The dynamic responses for many variables are quite similar and confirm our previous findings. Finally, a by-product of our identification approach is a rotation matrix that can be used to recover the structural factors. These rotation matrices still have the same informational content, but their interpretation, in terms of the correlation structure, can change. Indeed, we find that the rotated principal components do have an economic interpretation.

In the rest of the paper, we first present the theoretical framework in which credit shocks can occur. Then, we present our econometric framework in a data-rich environment and discuss the estimation and identification issues. The main results are presented in Section 5, followed by a conclusion. The Appendix contains some additional results, an explanation of the bootstrap procedure, and the data description.

 $^{^{1}}$ A FAVAR analysis includes more information than a VAR and less structure than a DSGE. Other FAVAR studies find a fall in price indexes where VAR and DSGE studies concerning the Canadian economy do not.

2 Theoretical framework

In this section we briefly discuss how the financial and economic sides are connected and through which channel(s) shocks on the credit market could affect economic activity.

Financial frictions are crucial when linking credit market conditions to economic activity. We see this from the fact that in a framework of incomplete information, the Modigliani-Miller theorem does not apply. This means that a firm's value is determined by its capital structure. After aggregation and if credit markets determine capital structure in the economy, we should observe informational frictions characterizing the firm's value. Frictions can arise from both supply and demand.

On the supply side, usually interpreted as the bank lending channel, Bernanke (1993) observes that banks and other financial intermediaries are able to fund projects which are complex to evaluate, using funds from investors that have only partial information about these projects. If banks resolve asymmetric information problems in the credit market, they can be considered credit creators and their health becomes an important macroeconomic parameter. However, because of the democratization of credit in the 1980s, informational frictions on the supply side seem to be less present. Dynan *et al.* (2006) provide empirical evidence that households' expenses are less sensitive to their income, encouraging us to look for other kinds of frictions.

On the demand side, which links to the balance sheet channel, Bernanke *et al.* (1999) (BGG hereafter) introduce the idea of a financial accelerator working through the interaction of two measures. The first is the external finance premium, defined as the difference between the external cost of capital and the internal opportunity cost of capital. The second is the net worth of potential borrowers, which is used to measure the collateral that firms are able to offer to obtain credit. The idea of the financial accelerator is that there is an inverse relationship between these two measures. If the net worth of a firm falls, the collateral value that it will be able to present to banks will also fall. Similarly, the firm's contribution to capital will also decline. In consequence, the bank will possess relatively more parts of the firm, creating an agency cost to solve the divergence between the two parts. This agency cost will raise the external finance premium, i.e. the firm's capital cost. Thus, the financial accelerator mechanism works as follows: a fall in net worth (due to a financial crisis, for example) raises the acquisition capital cost, pushing firms to invest a sub-optimal quantity of capital and creating a persistent effect from the original crisis.

Building on BGG, Gilchrist, Ortiz, and Zakrajsek (2009) aim to quantify the role of financial frictions in generating business cycle fluctuations. They augment a standard DSGE model with the financial accelerator mechanism which links the conditions in the credit market to the real economy through the external finance premium. Two financial shocks are introduced: a financial disturbance shock, which affects the external finance premium, and a net worth shock affecting the balance sheet of a firm. The first shock is presented as a credit supply shock, which Christiano *et al.* (2009) interpret as an increase in the agency costs due to a higher variance of idiosyncratic shocks affecting the firm's profitability. The second shock can be viewed as a credit demand shock. Its effect will depend on the degree of frictions in the financial market. After estimating the structural model, the authors find that both financial shocks cause an increase in the external finance premium, which, through the financial accelerator, implies a slowdown in economic activity. Finally, Bloom (2009) provides a framework to analyze the impact of uncertainty shocks. He finds that increased volatility generates short, but sharp, recessions and recoveries.

3 Econometric framework in data-rich environment

As information technology improves, the availability of economic and financial time series grows in terms of both time and cross-section size. However, a large amount of information can lead to the curse of dimensionality when standard time series tools are used. Since most of these series are highly correlated, at least within some categories, their co-variability pattern and informational content can be approximated by a smaller number of variables. A popular way to address this issue is to use factor analysis. The structural factor model approach will here be used to identify a structural shock and its effects on the economy.

Previous studies have used standard VAR techniques with recursive identification schemes to identify credit shocks. However, as Bernanke *et al.* (2005) pointed out, the small-scale VAR model presents three issues. First, due to the small amount of information in the model, relative to the information set potentially observed by agents, VAR suffers from an omitted variable problem, which can alter the impulse response analysis. The second problem in a small-scale VAR model is that the choice of a specific data series to represent a general economic concept is arbitrary. Moreover, measurement errors, aggregations, and revisions present additional problems when linking theoretical concepts to specific data series. Even if the previous problems do not occur, we can only produce impulse responses for the variables included in the VAR. Finally, Forni *et al.* (2009) argues that while non-fundamentalness is generic in a small-scale models, it cannot arise in a large dimensional dynamic factor models². This is of primary importance, since the objective is to identify a relatively new structural shock in empirical macroeconomics.

 $^{^{2}}$ If the shocks in the VAR model are fundamental, then the dynamic effects implied by the moving average representation can have a meaningful interpretation, i.e. the structural shocks can be recovered from current and past values of observable series.

One way to address all of these issues is to take advantage of the information contained in large panel data sets using dynamic factor analysis and the factor-augmented VAR (FAVAR) model in particular. The importance of large data sets and factor analysis is well documented in both forecasting macroeconomic aggregates and structural analysis. Boivin *et al.* (2009a) have recently shown that incorporating information through a small number of factors corrects for several empirical puzzles when estimating the effect of monetary policy shocks in a small open economy. However, Dufour and Stevanovic (2010) argue that in general, multivariate series and their associated factors do not both follow a finite order VAR process. Hence, they propose a FAVARMA framework that combines two parsimonious methods to represent the dynamic interactions between a large number of time series: factor analysis and VARMA modeling.

3.1 Factor-augmented VARMA model

Using the notation from Dufour and Stevanovic (2010), the dynamic factor model (DFM) where factors have a finite order VARMA (p_f, q_f) representation can be written as

$$X_{it} = \tilde{\lambda}_i(L)f_t + u_{it}, \quad i = 1, \dots, N, \quad t = 1, \dots, T$$

$$\tag{1}$$

$$u_{it} = \delta_i(L)u_{i,t-1} + \nu_{it} \tag{2}$$

$$f_t = \Gamma(L)f_{t-1} + \Theta(L)\eta_t, \tag{3}$$

where $\tilde{\lambda}_i(L)$ is a lag polynomial, $\delta_i(L)$ is a $p_{x,i}$ -degree lag polynomial, $\Gamma(L) = [\Gamma_1 L + \ldots + \Gamma_{p_f} L^{p_f}],$ $\Theta(L) = [I - \Theta_1 L - \ldots - \Theta_{q_f} L^{q_f}],$ and ν_{it} is an N-dimensional white noise uncorrelated with q-dimensional white noise process η_t . The equation (1) relates observable variable X_{it} to q (latent) factors, f_t , and to its idiosyncratic component, u_{it} . The element $\tilde{\lambda}_i(L)f_t$ is called the common component. We also allow for some limited cross-section correlations among the idiosyncratic components³.

Subtracting $\delta_i(L)u_{it-1}$ from both sides of (1) gives the DFM with serially uncorrelated idiosyncratic errors:

$$X_{it} = \lambda_i(L)f_t + \delta_i(L)X_{it-1} + \nu_{it}, \tag{4}$$

 $^{^{3}}$ So that there exists a small number of largest eigenvalues of the covariance matrix of common components that diverge when the number of series tends to infinity, while the remaining eigenvalues as well as the eigenvalues of the covariance matrix of specific components are bounded. See Bai and Ng (2008) for an overview of the modern factor analysis literature, and the distinction between exact and approximate factor models.

where $\lambda_i(L) = (1 - \delta_i(L)L)\tilde{\lambda}_i(L)$.

Then, we can rewrite the DFM in the following form:

$$X_t = \lambda(L)f_t + D(L)X_{t-1} + \nu_t \tag{5}$$

$$f_t = \Gamma(L)f_{t-1} + \Theta(L)\eta_t, \tag{6}$$

where

$$\lambda(L) = \begin{bmatrix} \lambda_1(L) \\ \vdots \\ \lambda_n(L) \end{bmatrix}, D(L) = \begin{bmatrix} \delta_1(L) & \cdots & 0 \\ \vdots & \ddots & \vdots \\ 0 & \cdots & \delta_n(L) \end{bmatrix}, \nu_t = \begin{bmatrix} \nu_{1t} \\ \vdots \\ \nu_{nt} \end{bmatrix}.$$

To obtain the static version of the previous factor model suppose that $\tilde{\lambda}(L)$ has finite degree p-1, and let $F_t = [f'_t \quad f'_{t-1} \dots f'_{t-p+1}]'$. Let the dimension of F_t be K, where $q \leq K \leq qp$. Then,

$$X_t = \Lambda F_t + u_t \tag{7}$$

$$u_t = D(L)u_{t-1} + \nu_t \tag{8}$$

$$F_t = \Phi(L)F_{t-1} + G\Theta(L)\eta_t \tag{9}$$

where Λ is a $N \times K$ matrix whose i^{th} row consists of coefficients of $\tilde{\lambda}_i(L)$, $\Phi(L)$ contains coefficients of $\Gamma(L)$ and zeros, and G is a $K \times q$ matrix (consisting of 1's and 0's) that loads (structural) shocks η_t to static factors. Note that if $\Theta(L) = I$, we obtain the factor-augmented VAR (FAVAR) model.

Finally, since the VARMA models are not identified in general, we will impose the diagonal moving average representation that is presented in following definition.

Definition 1 (Diagonal MA equation form) Suppose N-dimensional stochastic process X_t has the following VARMA representation:

$$\Phi(L)X_t = \Theta(L)u_t$$

This VARMA representation is said to be in diagonal MA equation form if $\Theta(L) = \text{diag}[\theta_{ii}(L)] = I_N - \Theta_1 L - \dots - \Theta_q L^q$ where $\theta_{ii}(L) = 1 - \theta_{ii,1}L - \dots - \theta_{ii,q_i}L^{q_i}$, $\theta_{ii,q_i} \neq 0$, and $q = \max_{1 \le i \le N}(q_i)$.

From the point of view of practitioners, this form is very appealing since adding lags of u_{it} to the i^{th} equation is a natural extension of the VAR model. It also has the advantage of giving a simple structure to the MA polynomials, the part which complicates the estimation.

3.2 Estimation

We will work with the static version (7-9). Also, we assume the same number of dynamic and static factors, G = I, and no autocorrelations in the idiosyncratic component, D(L) = 0, which gives the following simplified model:

$$X_t = \Lambda F_t + \nu_t \tag{10}$$

$$F_t = \Phi(L)F_{t-1} + \Theta(L)\eta_t, \qquad (11)$$

To estimate this model, we use the two-step Principal Component Analysis (PCA) estimation method (see Stock and Watson, 2002; and Bai and Ng, 2006; for theoretical results concerning the PCA estimator). In the first step, \hat{F}_t are computed as K principal components of X_t . In the second step, we estimate the VARMA representation (11) using \hat{F}_t . The standard estimation methods for VARMA models are maximum likelihood and non-linear least squares. Unfortunately, these methods require non-linear optimization, which may not be feasible when the number of parameters is relatively large. In this paper, we will use the GLS method proposed in Dufour and Pelletier (2008).

Since the unobserved factors are estimated and then included as regressors in the FAVARMA model, the two-step approach suffers from the "generated regressors" problem. To get an accurate statistical inference on the impulse response functions that accounts for uncertainty associated with factors estimation, we use a bootstrap procedure suggested by Yamamoto (2009) and implemented in Dufour and Stevanovic (2010). The details of the bootstrap procedure are presented in the Appendix.

3.3 Identification of structural shocks

To identify the structural shocks, we adapt the contemporaneous timing restrictions procedure proposed in Stock and Watson (2005) to the FAVARMA framework. After inverting the VARMA process of factors in (11), assuming stationarity, and plugging it into (10), we obtain the MA representation of X_t :

$$X_t = \Lambda [I - \Phi(L)L]^{-1} \Theta(L)\eta_t + u_t$$

= $B(L)\eta_t + u_t.$ (12)

We assume that the number of static factors, K, is equal to the number of dynamic factors and that residuals in (11) are linear combinations of structural shocks ε_t

$$\varepsilon_t = H\eta_t,\tag{13}$$

where H is a nonsingular square matrix and $E[\varepsilon_t \varepsilon'_t] = I$. Replacing (13) in (12) gives the structural MA form of X_t :

$$X_t = \Lambda [I - \Phi(L)L]^{-1} \Theta(L) H^{-1} \varepsilon_t + u_t$$

= $B^*(L) \varepsilon_t + u_t.$ (14)

To achieve the identification of shocks in ε_t , the contemporaneous timing restrictions are imposed on the impact matrix in (14)

$$B_{0}^{\star} \equiv B^{\star}(0) = \begin{bmatrix} x & 0 & \cdots & 0 \\ x & x & \ddots & 0 \\ x & x & \ddots & 0 \\ x & x & \cdots & x \\ \vdots & \vdots & \vdots & \vdots \\ x & x & \cdots & x \end{bmatrix}$$

Let $B_{0:K}^{\star} = B_{0:K}H^{-1}$ be a $K \times K$ lower triangular matrix, where $B_{0:K}$ contains the first K rows of B_0 .

Then, H is obtained as

$$H = [\operatorname{Chol}(B_{0:K}\Sigma_e B'_{0:K})]^{-1}\Lambda_K,$$
(15)

where Σ_{η} is the covariance matrix of η_t and Λ_K is a $K \times K$ matrix of the first K rows of Λ . To estimate H, we just plug in the estimates of $B_{0:K}$, Σ_e and Λ_K . Hence, the impulse responses to any shock in ε_t are obtained using (14). This identification procedure is similar to the standard recursive identification in VARMA models. To just identify the K structural shocks, we need to impose K(K-1)/2 restrictions. Imposing them in a recursive way makes estimation of the rotation matrix H easy. Also, it should be noted that the number of static factors must be equal to the number of series used in the recursive identification. Moreover, contrary to other identification strategies in the FAVAR literature, we do not need to impose any observed factor or rely on the interpretation of a particular latent factor.

Remark that we follow the strategy to impose the minimum number of restriction by choosing the impact response of only K variables. Since there are many series in X_t , another possibility is to over-identify the model by imposing zero restrictions on more than K series. In that case, B^* would be block lower triangular. While, if all these additional restrictions are satisfied, this would produce more efficient results, our approach is more robust, and we believe more appropriate in this type of structural analysis.

4 Data

The majority of our data comes from Dufour and Stevanovic (2010). It contains 332 monthly StatCan series that synthesize real and financial Canadian activity. Also included are variables describing a small open economy: exchange rates and global financial information. The time span is from January 1986 to November 2009.

Credit spreads measuring credit market conditions are also included as additional series. A credit spread is defined as the difference between the actuarial rate of a firm bond and the actuarial rate of a risk-free product (typically a treasury bond). We were built American credit spreads using Moody's bond index as described in BGS. Canadian credit spreads were built using a Canadian Dex bond index rated AA. Table 1 synthesizes information about the credit spread for Canada and the US. Because our results are very similar from one spread to another, we have selected a Canadian 10-Year A spread and an American 10-Year B spread. The two series are plotted in Figure 1.

5 Results

The goal of this paper is to measure the dynamic effects of credit shocks on economic activity in Canada. Since we are looking at a small open economy it is important to control for any global influence on financial markets when identifying the credit shock effects. In previous studies, authors have considered Canada to be a closed economy, but our empirical evidence suggests this could be misleading. Indeed, our results show that the effect of a credit shock is essentially driven by global financial conditions and by US credit markets in particular. Given the fact that the US represents around 80% of foreign trade in Canada, we approximate the world financial conditions with the US proxies. Hence, we use the US 10-year credit spread (USspread10y) in the recursive identification scheme. On the other hand, we take the Canadian 10-year credit spread (CANspread10y) as a proxy to identify the national credit shock. In all specifications the lag order tests suggest a VARMA(2,1) process for the extracted factors.

5.1 Global credit shock

To identify the global credit shock, we impose the following recursive scheme such that $B_{0:K}^{\star}$ is lower triangular:

[USspread10y, CPI, UR, MS, R, FX],

where CPI is the Consumer Price Index: all items, UR is the Unemployment Rate, MS is the Money Base, R is the 3-month Treasury Bill and FX stands for the Can/US Exchange Rate. The credit shock is the first element in ε_t . This identification scheme implies that Canadian CPI, UR, MS, R and FX can respond immediately to a credit shock in the US. In other words, the contemporaneous response to a credit shock of all 349 variables is completely unrestricted.

The impulse responses for some variables of interest are presented in Figure 2. A one-standard deviation credit shock immediately raises the US credit spread by 0.4 basic points, while the effect on the Canadian spread is two times smaller. This unexpected increase in the global external finance premium generates a significant and persistent economic downturn. We see that economic activity indicators such as production, employment, hours, prices and wages decline significantly. Production measures in particular go down for more than a year. Employment is also negatively affected, especially in the construction sector⁴. All

 $^{^{4}}$ We have looked at all of the employment series responses and find that the magnitude responses vary across sectors. For

consumer price indexes show approximately the same pattern of a gradual and highly persistent slowdown, but most are non-significant. On the other hand, the industrial and commodities price indexes respond in a statistically significant way and stay below their steady-state value. This result is different from what Atta-Mensah and Dib (2008), and Safaei and Cameron (2003) report, where prices rise in response to a credit shock⁵.

The effects on financial markets are even more striking. Treasury bills and government market bonds respond negatively and the effect is significant and persistent. Business and consumer credit measures decline. Leading indicators such as new orders, building permits and housing also start responding negatively on impact.

Our econometric framework allows the possibility of measuring the effects of structural shocks across different economic activity sectors, as well as across geographical regions. This is important in the case of Canada because of its huge territory and small overall population density. Thus, it is interesting to see how the credit shocks propagate across different regions. The results are presented in Figure 6 in the Appendix. It seems that in general, the Atlantic provinces demonstrate the most inconsistent behavior with respect to the rest of Canada.

The variance decomposition results are presented in Table 2. The second column reports the contribution of the credit shock to the variance of the forecast error at a 48-month horizon. According to these results, and contrary to the literature on monetary policy shocks identified in structural VAR framework, the global credit shock has an important effect on several variables: credit spreads, interest rates, industrial price indexes, credit measures, production and employment. This surprising evidence of the importance of credit shocks is also documented in BGS.

Finally, since we are using a factor model, the natural question is how well the extracted factors explain the variability in the observable series. Looking at the R^2 results in the third column in Table 2, we see that the common component explains a sizeable fraction of the variability in these variables⁶. This means that these factors do capture the important dimensions of business cycle movements.

sake of space, we will not report the impulse responses on all of the series in our data set but they are available on demand. 5 It is worth noting that the impulse responses in Figure 2 present similar pattern to effects of credit shocks on the US

economy reported in BGS and Gilchrist, Yankov and Zakrajsek (2009).

 $^{^{6}\}mathrm{Remember}$ that only 6 factors were extracted from a data set containing 349 time series presenting different correlation patterns.

5.2 Canadian credit shock

In the previous section, we showed that a global credit shock has significant and meaningful effects on the Canadian economy. Now, we will see if a national credit shock, identified using a Canadian external finance premium measure, produces any effect. The recursive scheme is the following:

[USspread10y, CPI, UR, MS, R, FX, CANspread10y].

The credit shock is identified as the last element of ε_t . This identification is similar to what has been done in structural VAR and in FAVAR frameworks with the US data: activity and price measures do not respond immediately to a credit shock, nor to interest rates or money supply. We also add the exchange rate, considered exogenous to the credit shock⁷. Contrary to other studies, we control for the US credit markets by including the US credit spread, but the results do not change if we exclude it.

The impulse responses are presented in Figure 3. Overall, the national credit shock does not seem to produce any significant effect on the economy. In particular, the standard deviation of the credit shock in this identification scheme is more than 8 times smaller than in the case of the global credit shock.

The previous results suggest that all effects on the Canadian economy are caused by a global (or US) credit shock. Hence, modeling Canada as a closed economy when identifying and measuring the effects of credit shocks can be misleading in the sense that if any effects are found, these are not caused by a national but a global shock.

To understand better this phenomenon, we tried another recursive scheme:

[CAN spread 10y, CPI, UR, MS, R, FX].

Here, the Canadian credit spread is taken to be exogenous to price, activity, money, interest rate and exchange rate measures. Our *a priori* idea is that the Canadian credit spread is Granger caused by the US spread so that this identification scheme would produce similar results to the first one.

In Figure 4 we present the results from these two identification schemes. Overall, they are very similar, except that when using the Canadian spread the effects are slightly more important for some variables. This suggests that the same shock can be identified using either Canadian or US external finance premium

⁷Other orderings were also tried and the results were very similar.

measures. Moreover, the structural factors from the two models are highly correlated (correlation coefficients are higher than 0.9 in absolute value).

Finally, we tested the Granger causality between the two credit spreads. The results are reported in Table 3. According to *p*-values, the hypothesis that the US credit spread does not cause the Canadian credit spread is strongly rejected and there is no evidence to reject the hypothesis that the Canadian credit spread does not Granger cause the US spread. Hence, these results confirm our intuition and suggest that the effects of credit shocks in Canada are essentially caused by unexpected changes in foreign credit market conditions.

5.3Further robustness analysis

So far the results confirm our intuition, indicating that Canadian credit conditions are a quasi-deterministic component of American credit conditions (interpreted as global conditions). Thus, it seems that the Canadian credit market is not able to generate shocks. We know that Canadian firms are more liquid than American ones, but their capital structure should not change anything as long as the credit market has been defined here as exogenous to Canadian economy. Our best guess to explain these results seem to be in relation to the size of the Canadian economy and its opening on US economy.

But one could ask if we are confident that the insertion of an American credit spread in our database is enough to understand US dynamics? In other words, do we really identify a US credit shock or some global shock to which US economy responds. To answer this question we do two simple robustness analysis and check different identification schemes. The first consider a FAVARMA model with observed factors (US spread), and the second propose an extension of the FAVARMA model by allowing for exogenous variables in factors dynamic.

FAVARMA with observable factors The model can be written as follows:

1

$$X_t = \Lambda F_t + \nu_t \tag{16}$$

$$\begin{pmatrix} R_t \\ F_t \end{pmatrix} = \Phi(L) \begin{pmatrix} R_{t-1} \\ F_{t-1} \end{pmatrix} + \Theta(L)\eta_t,$$
(17)

where R_t contains M observed factors. In our example, R_t is the US 10-year B-spread. The model is

estimated in the same way as the benchmark specification, with one additional step to impose R_t as observed factor. To do so, we follow the iterative principal approach as in Boivin, Giannoni and Stevanovic (2009):

- 1 Initialize \hat{F}_t to be the K first principal components of X_t .
- 2 (i) Regress X_t on \hat{F}_t and R_t , to obtain $\hat{\Lambda}_t^{F,j}$ and $\hat{\Lambda}_t^{R,j}$. (ii) Compute $\tilde{X}_t^j = X_t \hat{\Lambda}_t^{R,0} R_t$ (iii) Update \hat{F}_t as the first K principal components of \tilde{X}_t .

We use the causal ordering in (17) to identify the innovation associated to R_t . Hence, the US spread is exogenous to all Canadian factors. The impulse response of all elements in X_t are easily obtained after inverting (17) and premultiplying it by $\hat{\Lambda}$.

FAVARMA-X What if we observe the US credit shock such that it is exogenous to the Canadian economy? A natural thing to do would be to add it as an exogenous variable in the FAVARMA framework. The model becomes:

$$X_t = \Lambda F_t + \nu_t \tag{18}$$

$$F_t = \Phi(L)F_{t-1} + \beta W_t + \Theta(L)\eta_t, \qquad (19)$$

where W_t is the exogenous variable. The estimation proceeds as in Dufour and Stevanovic (2010), with exception that W_t is added to the matrix of regressors during the second step.

Here, W_t contains the estimate of US credit shock from Boivin, Giannoni and Stevanovic (2010). Their data set ends on March 2009, so we also restrict our series to end on that period. The advantage of this framework is that the US credit shock has been identified within a US economy model, and then is not subject to the critique that we do not necessary identify the good shock.

The impulse response functions after a positive unexpected US credit shock from both models are compared in Figure 5. In both models a VARMA(2,1) has been suggested by the information criterion. We standardized all IRF to have the unit variance, since the impulse shock is not of the same size across models. Hence, the scale is irrelevant, but our interest is to compare the shape and qualitative features of the responses in Figure 5, to IRFs from our benchmark model in Figure 2. We remark that all these specifications and identifications scheme produce quite similar dynamic responses of many variables of interest. Hence, we believe that the identification procedure in our benchmark model measures the effects US credit shocks in Canada.

5.4 Interpretation of factors

As it was pointed out in BGS, the procedure to identify the structural shocks can produce interpretable factors⁸. Remember that structural shocks are linear combination of residuals, $\varepsilon_t = H\eta_t$. Using this hypothesis, we can rewrite the system (10)-(11) in its structural form

$$\begin{aligned} X_t &= \Lambda^* F_t^* + u_t \\ F_t^* &= \Phi^*(L) F_{t-1}^* + \Theta^*(L) \varepsilon_t \end{aligned}$$

,

where $F_t^* = HF_t$, $\Lambda^* = \Lambda H^{-1}$, $\Phi^*(L) = H\Phi(L)H^{-1}$, and $\Theta^*(L) = H\Theta(L)H^{-1}$. Hence, given the estimates of F_t and H, we can obtain an estimate of the structural factors: $\hat{F}_t^* = \hat{H}\hat{F}_t$. The last six columns in Table 2 contain the marginal contribution of each structural factor to the total R^2 . We can see that the first structural factors mostly explain the two credit spreads. The second is very important for consumer price indexes and housing prices, while the third contributes by completely explaining the unemployment rate. Finally, the fourth factor is important for monetary measures (not reported in the table) and interest rates, while the last two factors do not seem to be interpretable.

6 Conclusion

In this paper we measured the impact of a credit shock in Canada in a data-rich environment. To incorporate information from a large number of economic and financial indicators, we used a factor-augmented VARMA (FAVARMA) model. The structural shocks were identified by imposing a recursive structure on the impact matrix of the structural MA representation of observable variables.

We found that an unexpected increase in the external finance premium on global financial markets, approximated by the US credit spread, generates a significant and persistent economic slowdown in Canada.

 $^{^{8}}$ Note however that factors are identified up to a rotation. Hence, any orthogonal rotation matrix will give the same common component even though the interpretation of each factor in terms of correlation can change.

Canadian credit spreads rise immediately, while interest rates and credit measures decline. According to R^2 results, the common component captures an important dimension of business cycle movements. From the variance decomposition analysis, we observed that the credit shock has an important effect on several economic and financial measures.

Another important result is related to the identification of national financial shocks. Previous studies have treated Canada as a closed economy when identifying a credit shock and have found some real effects. Our results suggested however that there is no significant effect of domestic shocks in Canada. Indeed, the effects of credit shocks in Canada are fundamentally caused by the unexpected changes in foreign credit market conditions.

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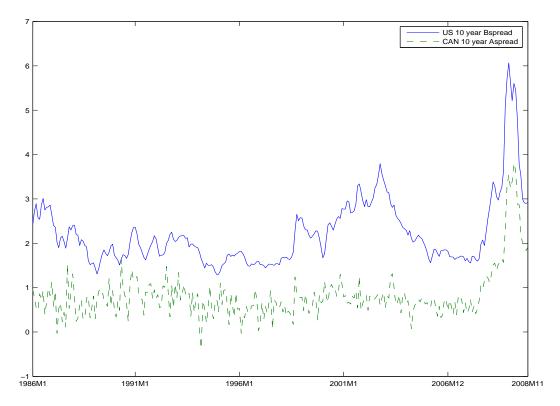


Figure 1: Credit spreads used in identification of structural shocks

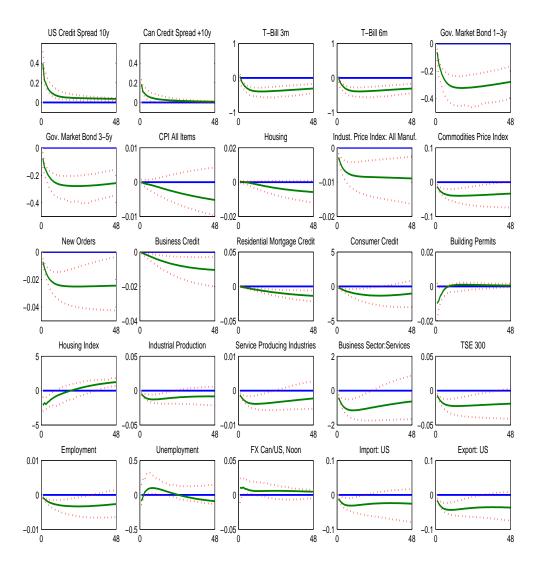


Figure 2: Impulse of some variables of interest to one standard deviation global credit shock

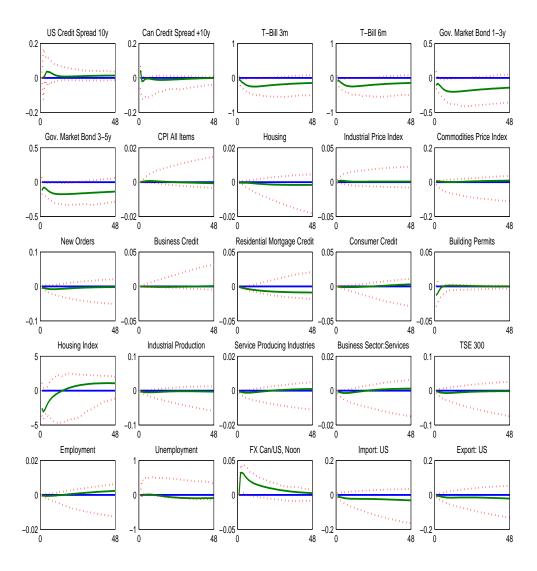


Figure 3: Impulse of some variables of interest to one standard deviation Canadian credit shock

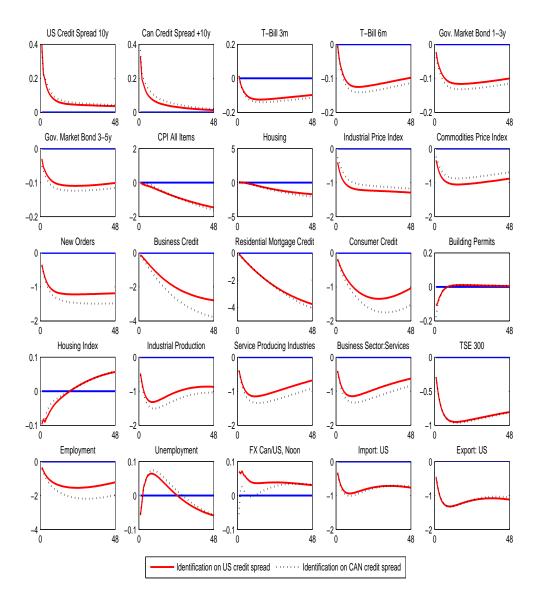


Figure 4: Comparison of impulse responses to a credit shock identified by US and Canadian credit spreads

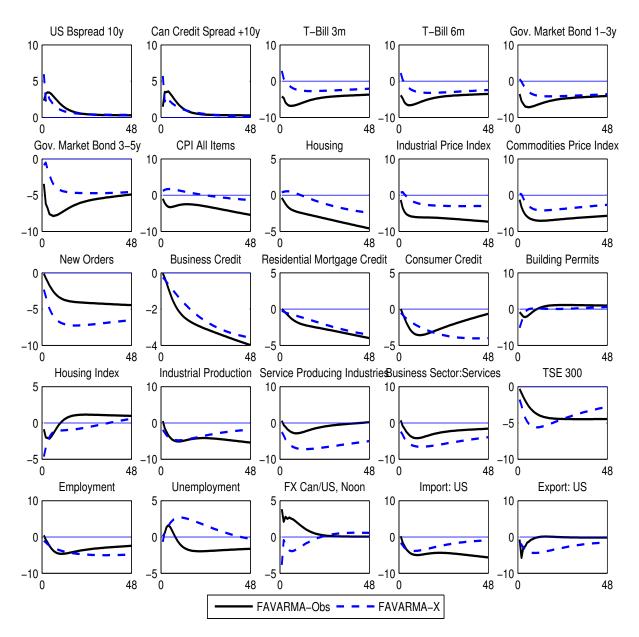


Figure 5: Comparison of IRFs obtained from FAVARMA-obs and FAVARMA-X models

	Table 1: Credit spreads
Series label	Description
SCM2AST(RY)	Bond Yeld: DEX Capital Overall AA Short Term (% per Annum)
SCM2AMT(RY)	Bond Yeld: DEX Capital Overall AA Mid Term (% per Annum)
SCM2ALG(RY)	Bond Yeld: DEX Capital Overall AA Long Term (% per Annum)
v122531	Interest Rate: T-bills 3 Months (% per Annum)
v122499	Interest Rate:Gov. of Can.marketable Bond, 1-3 years (% per Annum)
v122501	Interest Rate:Gov. of Can. marketable Bond, over 10 years (% per Annum)
EN A A C	
FYAAAC	Bond Yeld: Moodys AAA Corporate (% per Annum)
FYBAAC	Bond Yeld: Moodys BAA Corporate (% per Annum)
FYGT1.M	Rate: U.S. Treasury Const. Maturities, 1-Year (% Per Annum, NSA)
FYGT10.M	Rate: U.S. Treasury Const. Maturities, 10-Year (% Per Annum, NSA)
	Canadian credit spreads
3 Months A Spread	SCM2AST(RY) - v122531
1 Year A Spread	SCM2AMT(RY) - $v122499$
10 Year A Spread	SCM2ALT(RY) - v122501
	US credit spreads
10 Year B Spread	FYBAAC - FYGT10.M
10 Year A Spread	FYBAAC - FYGT10.M
1 Year B Spread	FYBAAC - FYGT1.M

Variables	Variance	R^2				bution to	R2 F_t	
	decomposition		F_1^*	F_2^*	F_3^*	F_4^*	F_5^*	F_6^*
US Credit Spread 10y	0.8813	0.4631	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CAN Credit Spread 10y	0.6293	0.5019	0.7730	0.0003	0.0430	0.0209	0.0518	0.1109
T-Bill 3m	0.3947	0.9603	0.3505	0.0281	0.0399	0.5797	0.0016	0.0001
T-Bill 6m	0.4076	0.9685	0.3739	0.0254	0.0396	0.5592	0.0015	0.0005
Gov. Market Bond 1-3y	0.4231	0.9779	0.4052	0.0206	0.0837	0.4841	0.0022	0.0041
Gov. Market Bond 3-5y	0.4088	0.9717	0.4093	0.0183	0.1279	0.4347	0.0026	0.0072
CPI: all items	0.0214	0.9121	0.0313	0.9687	0.0000	0.0000	0.0000	0.0000
Housing price index	0.0520	0.4149	0.0263	0.8049	0.0428	0.0826	0.0066	0.0367
Industrial price index	0.5029	0.4942	0.3727	0.1894	0.0127	0.1834	0.0008	0.2410
Commodity price index	0.5197	0.3525	0.2383	0.2580	0.0523	0.2489	0.0442	0.1583
New orders	0.7074	0.2874	0.5524	0.0012	0.0143	0.2315	0.0696	0.1310
Business credit	0.3425	0.4045	0.4472	0.0000	0.3007	0.0944	0.0302	0.1277
Residential mortgage credit	0.1982	0.6025	0.1181	0.0310	0.1648	0.3405	0.3373	0.0083
Consumer credit	0.4595	0.3332	0.0935	0.0025	0.7411	0.0382	0.0350	0.0896
Building permits	0.1688	0.1184	0.0469	0.0381	0.0053	0.2183	0.2942	0.3971
Housing index	0.1149	0.8045	0.0640	0.0009	0.6939	0.0211	0.2177	0.0024
Indust. Prod.: manufact.	0.5726	0.6352	0.3971	0.0002	0.0451	0.3325	0.0784	0.1467
Indust. Prod.: services	0.6779	0.3501	0.3738	0.1041	0.0278	0.3205	0.0686	0.1052
Business sector: services	0.6749	0.3793	0.3894	0.1336	0.0061	0.3317	0.0516	0.0876
TSE 300	0.6659	0.1972	0.3591	0.0773	0.0210	0.3141	0.2109	0.0176
Employment	0.5691	0.5161	0.3528	0.0081	0.2223	0.1725	0.0013	0.2430
Unemployment rate	0.0840	0.8403	0.0465	0.0049	0.9486	0.0000	0.0000	0.0000
FX Can/US	0.0201	0.7872	0.0092	0.0084	0.0091	0.1638	0.5601	0.2495
Imports: US	0.4857	0.3276	0.3150	0.0142	0.0704	0.2515	0.2310	0.1179
Exports: US	0.7741	0.4445	0.5063	0.0082	0.0284	0.3419	0.1125	0.0028

Table 2: Explanatory power of global credit shock and common component

Table 3: Testing Granger causality between US and Canadian credit spreads

H_0	F-stat	P-value
US Spread does not Granger cause Can Spread	11.3519	0.0001
Can Spread does not Granger cause US Spread	1.0326	0.3574

Appendix A: Additional results

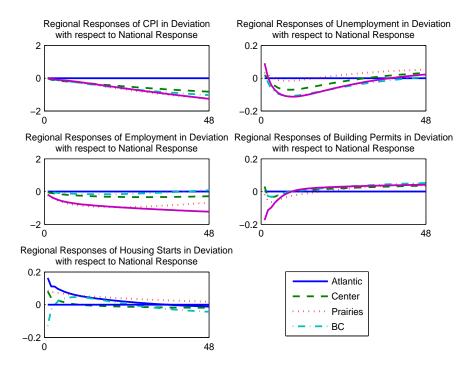


Figure 6: Regional impulse responses to a credit shock in deviation with respect to national response

- Atlantic provinces: Newfoundland and Labrador, Prince Edward Island, Nova Scotia and New Brunswick
- Center: Québec and Ontario
- Prairies: Manitoba, Saskatchewan and Alberta
- BC: British Columbia

Appendix B: Bootstrap procedure

The goal is to obtain confidence bands for impulse responses to structural shocks in representation (10-11) with assumption (13).

• Step 1

Shuffle the time dimension of the residuals in (11) and resample static factors using estimates of the VARMA coefficients:

$$\tilde{F}_t = \hat{\Phi}(L)\tilde{F}_{t-1} + \hat{\Theta}\tilde{\eta}_t$$

• Step 2

Shuffle the time dimension of the residuals in (10), and resample the observable series using new factors obtained from the previous step and the estimated loadings:

$$\tilde{X}_t = \hat{\Lambda}\tilde{F}_t + \tilde{u}_t$$

• Step 3

Estimate the FAVARMA model on \tilde{X}_t , identify the structural shock and produce impulse responses.

As it was pointed out in Dufour and Stevanovic (2010), having a good approximation of the true factor process can be very important in order to get the right bootstrap procedure. If the finite VAR approximation is far away from the truth, and if the finite VARMA representation does much better, allowing for the MA part should provide a more reliable inference.

Appendix C: Data description

The transformation codes (labeled T-Code) are: 1 - no transformation; 2 - first difference; 4 - logarithm; 5 first difference of logarithm.

			Canadian Data
No.	StatCan no	\mathbf{Code}	Series category
1	v41690973	5	Table 326-0020 Consumer Price Index Canada, Provinces All-items (2002=100)
2	v41690974	5	Food (2002=100)
3	v41690993	5	Dairy products (2002=100)
4 5	v41691046 v41691051	5 5	Food purchased from restaurants (2002=100) Rented accommodation (2002=100)
6	v41691051	5	Owned accommodation (2002–100)
7	v41691065	5	Natural gas (2002=100)
8 9	v41691066 v41691108	5 5	Fuel oil and other fuels (2002=100) Clothing and footwear (2002=100)
10	v41691129	5	Private transportation (2002=100)
11	v41691153	5	Health and personal care (2002=100)
12 13	v41691170	5	Recreation, education and reading (2002=100) All-items excluding eight of the most volatile components (Bank of Canada definition) (2002=100)
14	v41692942 v41691232	5 5	All-items excluding eight of the most volatile components (Bank of Canada definition) (2002=100) All-items excluding food (2002=100)
15	v41691233	5	All-items excluding food and energy (2002=100)
16 17	v41691238	5	All-items excluding energy (2002=100) Food and energy (2002=100)
18	v41691237 v41691239	5 5	Energy $(2002=100)$
19	v41691219	5	Housing (1986 definition) (2002=100)
20	v41691222	5	Goods (2002=100)
21 22	v41691223 v41691225	5 5	Durable goods (2002=100) Non-durable goods (2002=100)
23	v41691229	5	Goods excluding food purchased from stores and energy (2002=100)
24	v41691230	5	Services (2002=100)
25 26	v41691231 v41691244	5 5	Services excluding shelter services (2002=100) Newfoundland and Labrador; All-items (2002=100)
27	v41691369	5	Newfoundland and Labrador; All-items excluding food and energy (2002=100)
28	v41691363	5	Newfoundland and Labrador; Goods (2002=100)
29 30	v41691367 v41691379	5 5	Newfoundland and Labrador; Services (2002=100) Prince Edward Island; All-items (2002=100)
31	v41691503	5	Prince Edward Island; All-items excluding food and energy (2002=100)
32	v41691497	5	Prince Edward Island; Goods (2002=100)
33 34	v41691501 v41691513	5 5	Prince Edward Island; Services (2002=100) Nova Sortia: All items (2002=100)
35	v41691638	5	Nova Scotia; All-items (2002=100) Nova Scotia; All-items excluding food and energy (2002=100)
36	v41691632	5	Nova Scotia; Goods (2002=100)
37	v41691636	5	Nova Scotia; Services (2002=100)
38 39	v41691648 v41691773	5 5	New Brunswick; All-items (2002=100) New Brunswick; All-items excluding food and energy (2002=100)
40	v41691767	5	New Brunswick; Goods (2002=100)
41	v41691771	5	New Brunswick; Services (2002=100)
42 43	v41691783 v41691909	5 5	Quebec; All-items (2002=100) Quebec; All-items excluding food and energy (2002=100)
44	v41691903	5	Quebec; Goods (2002=100)
45	v41691907	5	Quebec; Services (2002=100)
46 47	v41691919 v41692045	5 5	Ontario; All-items (2002=100) Ontario; All-items excluding food and energy (2002=100)
48	v41692039	5	Ontario; Goods (2002=100)
49	v41692043	5	Ontario; Services (2002=100)
50 51	v41692055 v41692181	5 5	Manitoba; All-items (2002=100) Manitoba; All-items excluding food and energy (2002=100)
52	v41692175	5	Manitoba; Goods (2002=100)
53	v41692179	5	Manitoba; Services (2002=100)
54	v41692191	5 5	Saskatchewan; All-items (2002=100)
55 56	v41692317 v41692311	5	Saskatchewan; All-items excluding food and energy (2002=100) Saskatchewan; Goods (2002=100)
57	v41692315	5	Saskatchewan; Services (2002=100)
58	v41692327	5	Alberta; All-items (2002=100)
59 60	v41692452 v41692446	5 5	Alberta; All-items excluding food and energy (2002=100) Alberta; Goods (2002=100)
61	v41692450	5	Alberta; Services (2002=100)
62	v41692462	5	British Columbia; All-items (2002=100)
63 64	v41692588 v41692582	5 5	British Columbia; All-items excluding food and energy (2002=100) British Columbia; Goods (2002=100)
65	v41692586	5	British Columbia; Services (2002=100)
66	v14098	1	Table 026-0001 Building permits, residential values and number of units Canada; Total dwellings (number of units) [D848383]
67	v41651	1	Canada; Total dwellings (dollars - thousands) [D845521]
68	v13824	1	Newfoundland and Labrador; Total dwellings (number of units) [D847651]
69 70	v41560 v13859	1	Newfoundland and Labrador; Total dwellings (dollars - thousands) [D845363] Prince Edward Island; Total dwellings (number of units) [D847658]
71	v41595	1	Prince Edward Island; Total dwellings (humber of units) [D847038] Prince Edward Island; Total dwellings (dollars - thousands) [D845370]
72	v13866	1	Nova Scotia; Total dwellings (number of units) [D847665]
73 74	v41602 v13873	1	Nova Scotia; Total dwellings (dollars - thousands) [D845377] New Brunewick, Total dwellings (number of units) [D847672]
74 75	v13873 v41609	1 1	New Brunswick; Total dwellings (number of units) [D847672] New Brunswick; Total dwellings (dollars - thousands) [D845384]
76	v13880	1	Quebec; Total dwellings (number of units) [D847679]
77	v41616	1	Quebec; Total dwellings (dollars - thousands) [D845391]
78 79	v13887 v41623	1 1	Ontario; Total dwellings (number of units) [D847686] Ontario; Total dwellings (dollars - thousands) [D845398]
80	v13894	1	Manitoba; Total dwellings (number of units) [D847693]
81	v41630	1	Manitoba; Total dwellings (dollars - thousands) [D845405]
82	v13901 v41637	1	Saskatchewan; Total dwellings (number of units) [D847700] Saskatchewan; Total dwellings (dollars - thousands) [D845412]
83 84	v13908	1 1	Alberta; Total dwellings (dollars - thousands) [D845412]
85	v41644	1	Alberta; Total dwellings (dollars - thousands) [D845419]
86 87	v13831 v41567	1 1	British Columbia; Total dwellings (number of units) [D847714] British Columbia; Total dwellings (dollars - thousands) [D845426]
01	v41007	Ŧ	British Columbia; Total dwellings (dollars - thousands) [D845426]

			Table 027-0002 CMHC, housing starts, under constr and completions, SA
88	v730040	1	Canada; Total units (units - thousands) [J9001]
89 90	v729972 v729973	1 1	Newfoundland and Labrador; Total units (units - thousands) [J7002]
90 91	v729973 v729974	1	Prince Edward Island; Total units (units - thousands) [J7003] Nova Scotia; Total units (units - thousands) [J7004]
92	v729975	1	New Brunswick; Total units (units - thousands) [J7005]
93	v729976	1	Quebec; Total units (units - thousands) [J7006]
94	v729981	1	Ontario; Total units (units - thousands) [J7008]
95 96	v729987	1 1	Manitoba; Total units (units - thousands) [J7011]
96	v729988 v729989	1	Saskatchewan; Total units (units - thousands) [J7012] Alberta; Total units (units - thousands) [J7013]
98	v729990	1	British Columbia; Total units (units - thousands) [J7014]
			Table 377-0003 Business leading indicators for Canada
99	v7677	1	Average work week, manufacturing; Smoothed (hours) [D100042]
100	v7680	1	Housing index; Smoothed (index, 1992=100) [D100043]
101 102	v7681 v7682	5 5	United States composite leading index; Smoothed (index, 1992=100) [D100044] Money supply; Smoothed (dollars, 1992 - millions) [D100045]
102	v7683	5	New orders, durable goods; Smoothed (dollars, 1992 - millions) [D100046]
104	v7684	5	Retail trade, furniture and appliances; Smoothed (dollars, 1992 - millions) [D100047]
105	v7686	1	Shipment to inventory ratio, finished products; Smoothed (ratio) [D100049]
106	v7678	5	Stock price index, TSE 300; Smoothed (index, 1975=1000) [D100050]
$107 \\ 108$	v7679 v7688	5 5	Business and personal services employment; Smoothed (persons - thousands) [D100051] Composite index of 10 indicators; Smoothed (index, 1992=100) [D100053]
108	V1088	3	Composite index of 10 indicators, smoothed (index, 1992–100) [D100055]
			Table 379-0027 GDP at basic prices, by NAICS, Canada, SA, 2002 constant prices
109	v41881478	5	All industries [T001] (dollars - millions)
110	v41881480	5	Business sector, goods [T003] (dollars - millions)
111 112	v41881481 v41881482	5 5	Business sector, services [T004] (dollars - millions) Non-business sector industries [T005] (dollars - millions)
113	v41881485	5	Goods-producing industries [T008] (dollars - millions)
114	v41881486	5	Service-producing industries [T009] (dollars - millions)
115	v41881487	5	Industrial production [T010] (dollars - millions)
$116 \\ 117$	v41881488	5	Non-durable manufacturing industries [T011] (dollars - millions) Durable manufacturing industries [T012] (dollars - millions)
118	v41881489 v41881494	5 5	Agriculture, forestry, fishing and hunting [11012] (dollars - minions)
119	v41881501	5	Mining and oil and gas extraction [21] (dollars - millions)
120	v41881524	5	Residential building construction [230A] (dollars - millions)
121	v41881525	5	Non-residential building construction [230B] (dollars - millions)
122	v41881527	5	Manufacturing [31-33] (dollars - millions)
$123 \\ 124$	v41881555 v41881564	5 5	Wood product manufacturing [321] (dollars - millions) Paper manufacturing [322] (dollars - millions)
124	v41881602	5	Rubber product manufacturing [322] (donais - minimons)
126	v41881606	5	Non-metallic mineral product manufacturing [327] (dollars - millions)
127	v41881637	5	Machinery manufacturing [333] (dollars - millions)
128	v41881654	5	Electrical equipment, appliance and component manufacturing [335] (dollars - millions)
$129 \\ 130$	v41881662	5 5	Transportation equipment manufacturing [336] (dollars - millions)
130	v41881663 v41881674	5	Motor vehicle manufacturing [3361] (dollars - millions) Aerospace product and parts manufacturing [3364] (dollars - millions)
132	v41881675	5	Railroad rolling stock manufacturing [3365] (dollars - millions)
133	v41881688	5	Wholesale trade [41] (dollars - millions)
134	v41881689	5	Retail trade [44-45] (dollars - millions)
135	v41881690	5	Transportation and warehousing [48-49] (dollars - millions)
$136 \\ 137$	v41881699 v41881724	5 5	Pipeline transportation [486] (dollars - millions) Finance, insurance, realestate, rental and leasing and management of companies and enterprises [5A] (dollars - millions)
138	v41881756	5	Educational services [61] (dollars - millions)
139	v41881759	5	Health care and social assistance [62] (dollars - millions)
140	v41881776	5	Federal government public administration [911] (dollars - millions)
141	v41881777	5	Defence services [9111] (dollars - millions)
$142 \\ 143$	v41881779 v41881780	5 5	Provincial and territorial public administration [912] (dollars - millions) Local, municipal and regional public administration [913] (dollars - millions)
140	11001100	0	local, numerpar and regional public administration [215] (donars - minors)
			Tables 329-00(46,38,39) Industrial price indexes, 1997=100
144	v1575728	5	Transformer equipment (index, 1997=100) [P5648]
$145 \\ 146$	v1575754 v1575886	5 5	Electric motors and generators (index, 1997=100) [P5674] Diesel fuel (index, 1997=100) [P5806]
140	v1575925	5	
148	v1575903		Light fuel oil (index, 1997=100) [P5845]
149		5	Light fuel oil (index, 1997=100) [P5845] Heavy fuel oil (index, 1997=100) [P5823]
	v1575934	5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854]
150	v1575934 v1575958	5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5878]
151	v1575934 v1575958 v1575457	5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5878] Industrial trucks, tractors and parts (index, 1997=100) [P5329]
	v1575934 v1575958 v1575457 v1575493	5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5878] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365]
$151 \\ 152 \\ 153 \\ 154$	v1575934 v1575958 v1575457 v1575493 v1575511 v1575557	5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5878] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429]
$151 \\ 152 \\ 153 \\ 154 \\ 155$	$\begin{matrix} v1575934\\ v1575958\\ v1575457\\ v1575493\\ v1575511\\ v1575557\\ v1575610 \end{matrix}$	55555555	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5329] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5429]
$151 \\ 152 \\ 153 \\ 154 \\ 155 \\ 156$	$\begin{array}{c} v1575934\\ v1575958\\ v1575457\\ v1575493\\ v1575511\\ v1575557\\ v1575610\\ v3860051 \end{array}$	555555555	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5329] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5482] Motor vehicle brakes (index, 1997=100) [P5512]
151 152 153 154 155 156 157	$\begin{array}{c} \mathbf{v}1575934\\ \mathbf{v}1575958\\ \mathbf{v}1575457\\ \mathbf{v}1575493\\ \mathbf{v}1575511\\ \mathbf{v}1575557\\ \mathbf{v}1575610\\ \mathbf{v}3860051\\ \mathbf{v}3822562 \end{array}$	5555555555	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5378] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P542] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P525]
151 152 153 154 155 156 157 158	v1575934 v1575958 v1575457 v1575493 v1575511 v15755610 v3860051 v3822562 v3825177	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5329] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5482] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P523] Total excluding food and beverage manufacturing (index, 1997=100) [P6491]
$151 \\ 152 \\ 153 \\ 154 \\ 155 \\ 156 \\ 157 \\ 158 \\ 159 \\ 160$	v1575934 v1575958 v1575457 v1575493 v1575511 v1575557 v1575610 v3860051 v3822562 v3825178 v3825179	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5329] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P6253] Total excluding food and beverage manufacturing (index, 1997=100) [P6491] Food and beverage manufacturing [311, 3121] (index, 1997=100) [P6492] Food and beverage manufacturing (index, 1997=100) [P6493]
$151 \\ 152 \\ 153 \\ 154 \\ 155 \\ 156 \\ 157 \\ 158 \\ 159 \\ 160 \\ 161$	v1575934 v1575958 v1575457 v1575493 v1575511 v15755610 v3860051 v3822562 v3825177 v3825178 v3825179 v3825180	5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5378] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P5482] Motor vehicle brakes (index, 1997=100) [P5482] All manufacturing (index, 1997=100) [P6523] Total excluding food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing excluding alcoholic beverages (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494]
$151 \\ 152 \\ 153 \\ 154 \\ 155 \\ 156 \\ 157 \\ 158 \\ 159 \\ 160 \\ 161 \\ 162$	$\begin{array}{c} v1575934\\ v1575958\\ v1575457\\ v1575493\\ v1575557\\ v15755511\\ v1575557\\ v3860051\\ v3822562\\ v3825178\\ v3825178\\ v3825178\\ v3825180\\ v3825181\\ \end{array}$	5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P6523] Total excluding food and beverage manufacturing (index, 1997=100) [P6491] Food and beverage manufacturing excluding alcoholic beverages (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing idlatries [321, 322, 327, 331] (index, 1997=100) [P6495]
$151 \\ 152 \\ 153 \\ 154 \\ 155 \\ 156 \\ 157 \\ 158 \\ 159 \\ 160 \\ 161$	v1575934 v1575958 v1575457 v1575493 v1575511 v15755610 v3860051 v3822562 v3825177 v3825178 v3825179 v3825180	5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5378] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P5482] Motor vehicle brakes (index, 1997=100) [P5482] All manufacturing (index, 1997=100) [P6523] Total excluding food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing excluding alcoholic beverages (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494]
$151 \\ 152 \\ 153 \\ 154 \\ 155 \\ 156 \\ 157 \\ 158 \\ 159 \\ 160 \\ 161 \\ 162 \\ 163$	v1575934 v1575958 v1575958 v1575493 v1575511 v1575551 v1575610 v3820512 v3822517 v38225179 v3825179 v3825181 v3825181 v3825181	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5379] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P6523] Total excluding food and beverage manufacturing (index, 1997=100) [P6491] Food and beverage manufacturing (311, 3121] (index, 1997=100) [P6492] Food and beverage manufacturing (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100)
$151 \\ 152 \\ 153 \\ 154 \\ 155 \\ 156 \\ 157 \\ 158 \\ 159 \\ 160 \\ 161 \\ 162 \\ 163 \\ 164$	v1575934 v1575958 v1575958 v1575457 v1575511 v1575517 v1575610 v3860051 v3822562 v3825177 v3825177 v3825179 v3825180 v3825183 v3825183	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5378] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P5423] All manufacturing (index, 1997=100) [P523] Total excluding food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing excluding alcoholic beverages (index, 1997=100) [P6493] Non-food (including locholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total, all commodities (index, 82-90=100) [B3300]
$151 \\ 152 \\ 153 \\ 154 \\ 155 \\ 156 \\ 157 \\ 158 \\ 159 \\ 160 \\ 161 \\ 162 \\ 163 \\ 164 \\ 165 \\ 164 \\ 165 \\ 165 \\ 161 \\ 165 \\ 165 \\ 161 \\ 165 $	v1575934 v1575958 v1575457 v1575493 v1575511 v157557 v1575610 v3820562 v3822512 v3822512 v38225179 v38225179 v3825181 v3825183 v3825183	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5378] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P542] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P6523] Total excluding food and beverage manufacturing (index, 1997=100) [P6491] Food and beverage manufacturing [311, 3121] (index, 1997=100) [P6492] Food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total excluding energy (index, 82-90=100) [B3300]
$151 \\ 152 \\ 153 \\ 154 \\ 155 \\ 156 \\ 157 \\ 158 \\ 159 \\ 160 \\ 161 \\ 162 \\ 163 \\ 164$	v1575934 v1575958 v1575958 v1575457 v1575511 v1575517 v1575610 v3860051 v3822562 v3825177 v3825177 v3825179 v3825180 v3825183 v3825183	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5378] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P5423] All manufacturing (index, 1997=100) [P523] Total excluding food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing excluding alcoholic beverages (index, 1997=100) [P6493] Non-food (including locholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total, all commodities (index, 82-90=100) [B3300]
$151 \\ 152 \\ 153 \\ 154 \\ 155 \\ 156 \\ 157 \\ 158 \\ 159 \\ 160 \\ 161 \\ 162 \\ 163 \\ 164 \\ 165 \\ 166 \\ 166 \\ 166 \\ 166 \\ 166 \\ 166 \\ 166 \\ 165 \\ 166 $	v1575934 v1575958 v1575958 v1575457 v1575511 v1575551 v15755610 v3860051 v3822562 v38225177 v3825179 v3825179 v3825181 v3825181 v3825183 v3825183 v38382183	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5378] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5482] Motor vehicle brakes (index, 1997=100) [P5482] All manufacturing (index, 1997=100) [P5423] Total excluding food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing (alcoholic beverages) (index, 1997=100) [P6492] Food and beverage manufacturing excluding alcoholic beverages (index, 1997=100) [P6493] Non-food (including lacoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total, all commodities (index, 82-90=100) [B3300] Total excluding energy (index, 82-90=100) [B3301] Energy (index, 82-90=100) [B3302]
$151 \\ 152 \\ 153 \\ 154 \\ 155 \\ 156 \\ 157 \\ 158 \\ 160 \\ 161 \\ 162 \\ 163 \\ 164 \\ 165 \\ 166 \\ 167 $	v1575934 v1575958 v1575457 v1575493 v1575511 v1575511 v3860051 v3822562 v38225177 v3825177 v3825178 v3825179 v3825180 v3825180 v3825183 v3825183 v36382 v36382 v36384 v36385	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5378] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5423] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P6253] Total excluding food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing secluding alcoholic beverages (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total all commodities (index, 82-90=100) [B3300] Total excluding energy (index, 82-90=100) [B3301] Energy (index, 82-90=100) [B3302] Food (index, 82-90=100) [B3303] Industrial materials (index, 82-90=100) [B3304]
$151 \\ 152 \\ 153 \\ 154 \\ 156 \\ 157 \\ 158 \\ 159 \\ 160 \\ 161 \\ 162 \\ 163 \\ 164 \\ 165 \\ 166 \\ 167 \\ 168 $	v1575934 v1575958 v1575958 v1575493 v1575511 v157551 v1575610 v382052 v38225177 v38225177 v38225179 v3825179 v3825179 v3825181 v3825183 v36382 v36382 v36384 v36385 v36386	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5378] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P542] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P6523] Total excluding food and beverage manufacturing (index, 1997=100) [P6491] Food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing excluding alcoholic beverages (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total excluding energy (index, 82-90=100) [B3300] Total excluding energy (index, 82-90=100) [B3301] Energy (index, 82-90=100) [B3302] Food (index, 82-90=100) [B3303] Industrial materials (index, 82-90=100) [B3304] Tables 176-00(46,47), 184-0002 Stock market statistics
$\begin{array}{c} 151\\ 152\\ 153\\ 154\\ 155\\ 156\\ 157\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 166\\ 166\\ 166\\ 166\\ 168\\ 168\\ 168\\ 169\\ \end{array}$	v1575934 v1575958 v1575958 v1575457 v1575511 v1575551 v1575510 v3860051 v3822562 v38225177 v3825179 v3825179 v3825181 v3825181 v3825183 v36382 v36382 v36384 v36384 v36384 v36386 v36386	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5878] Industrial trucks, tractors and parts (index, 1997=100) [P5362] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P5482] Motor vehicle brakes (index, 1997=100) [P5429] Food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing excluding alcoholic beverages (index, 1997=100) [P6493] Non-food (including locholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing geneous metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total, all commodities (index, 82-90=100) [B3300] Total excluding energy (index, 82-90=100) [B3301] Energy (index, 82-90=100) [B3303] Food (index, 82-90=100) [B3304] Tables 176-00046,47), 184-0002 Stock market statistics Toronto Stock Exchange, value of shares traded (dollars - millions) [B4213]
$151 \\ 152 \\ 153 \\ 154 \\ 156 \\ 157 \\ 158 \\ 159 \\ 160 \\ 161 \\ 162 \\ 163 \\ 164 \\ 165 \\ 166 \\ 167 \\ 168 $	v1575934 v1575958 v1575958 v1575493 v1575511 v157551 v1575610 v382052 v38225177 v38225177 v38225179 v3825179 v3825179 v3825181 v3825183 v36382 v36382 v36384 v36385 v36386	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5378] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P542] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P6523] Total excluding food and beverage manufacturing (index, 1997=100) [P6491] Food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing excluding alcoholic beverages (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total excluding energy (index, 82-90=100) [B3300] Total excluding energy (index, 82-90=100) [B3301] Energy (index, 82-90=100) [B3302] Food (index, 82-90=100) [B3303] Industrial materials (index, 82-90=100) [B3304] Tables 176-00(46,47), 184-0002 Stock market statistics
$\begin{array}{c} 151\\ 152\\ 153\\ 154\\ 155\\ 156\\ 157\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 166\\ 166\\ 166\\ 166\\ 168\\ 168\\ 169\\ 170\\ 171\\ 172\\ \end{array}$	v1575934 v1575958 v1575457 v1575493 v1575511 v157557 v382562 v3825178 v3825178 v3825178 v3825178 v3825181 v3825181 v3825183 v36382 v36382 v36384 v36384 v36385 v36384 v36385 v36386 v37412 v37413 v37415	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	 Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5379] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5423] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P523] Total excluding food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing excluding alcoholic beverages (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total all commodities (index, 82-90=100) [B3300] Total excluding energy (index, 82-90=100) [B3301] Energy (index, 82-90=100) [B3302] Food (index, 82-90=100) [B3304] Tables 176-000(46,47), 184-0002 Stock market statistics Toronto Stock Exchange, volume of shares traded (shares - millions) [B4213] Toronto Stock Exchange, volume of shares traded (shares - millions) [B4218] United States common stocks, Dow-Jones industrials, low (index) [B4218] United States common stocks, Dow-Jones industrials, low (index) [B4218]
151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172	v1575934 v1575958 v1575958 v1575457 v1575511 v157557 v3822562 v38225177 v38225177 v38225177 v38225179 v3825181 v3825183 v36382 v36382 v36384 v36385 v36384 v36385 v36385 v36385 v36386	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5379] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P542] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P6523] Total excluding food and beverage manufacturing (index, 1997=100) [P6491] Food and beverage manufacturing (311, 3121] (index, 1997=100) [P6492] Food and beverage manufacturing (311, 3121] (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 337, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total excluding energy (index, 82-90=100) [B3300] Total excluding energy (index, 82-90=100) [B3301] Energy (index, 82-90=100) [B3302] Food (index, 82-90=100) [B3303] Industrial materials (index, 82-90=100) [B3304] Tables 176-00(46,47), 184-0002 Stock market statistics Toronto Stock Exchange, value of shares traded (dollars - millions) [B4213] Toronto Stock Exchange, value of shares traded (shares - millions) [B4214] United States common stocks, Dow-Jones industrials, high (index) [B4218] United States common stocks, Dow-Jones industrials, high (index) [B4220]
151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173	v1575934 v1575958 v1575958 v1575457 v1575511 v1575551 v3860051 v3822562 v38225177 v38225177 v3825179 v3825179 v3825181 v3825181 v3825183 v36382 v36383 v36383 v36384 v36385 v36386 v36386 v37412 v37412 v37415 v37416 v37419	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5378] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P5423] Motor vehicle brakes (index, 1997=100) [P5523] All manufacturing (index, 1997=100) [P6253] Total excluding food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing excluding alcoholic beverages (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total all commodities (index, 82-90=100) [B3300] Total excluding energy (index, 82-90=100) [B3301] Energy (index, 82-90=100) [B3302] Food (index, 82-90=100) [B3303] Industrial materials (index, 82-90=100) [B3304] Tables 176-000(46,47), 184-0002 Stock market statistics Toronto Stock Exchange, volue of shares traded (dollars - millions) [B4213] Toronto Stock Exchange, volue of shares traded (dollars - millions) [B4214] United States common stocks, Dow-Jones industrials, high (index) [B4218] United States common stocks, Dow-Jones industrials, low (index) [B4219] United States common stocks, Dow-Jones industrials, low (index) [B4213] New York Stock Exchange, customers' debit dallances (dollars - millions) [B4213] New York Stock Exchange, customers' debit dallances (index) [B4223]
151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172	v1575934 v1575958 v1575958 v1575457 v1575511 v157557 v3822562 v38225177 v38225177 v38225177 v38225179 v3825181 v3825183 v36382 v36382 v36384 v36385 v36384 v36385 v36385 v36385 v36386	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5379] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle engine parts (index, 1997=100) [P542] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P6523] Total excluding food and beverage manufacturing (index, 1997=100) [P6491] Food and beverage manufacturing (311, 3121] (index, 1997=100) [P6492] Food and beverage manufacturing (311, 3121] (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 337, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total excluding energy (index, 82-90=100) [B3300] Total excluding energy (index, 82-90=100) [B3301] Energy (index, 82-90=100) [B3302] Food (index, 82-90=100) [B3303] Industrial materials (index, 82-90=100) [B3304] Tables 176-00(46,47), 184-0002 Stock market statistics Toronto Stock Exchange, value of shares traded (dollars - millions) [B4213] Toronto Stock Exchange, value of shares traded (shares - millions) [B4214] United States common stocks, Dow-Jones industrials, high (index) [B4218] United States common stocks, Dow-Jones industrials, high (index) [B4220]
151 152 153 154 155 156 157 158 160 161 162 163 164 165 166 166 167 168 169 170 171 172 173 174 175 176	v1575934 v1575958 v1575457 v1575493 v1575511 v1575511 v157551 v3822562 v3825178 v38225178 v3825178 v3825178 v3825178 v3825181 v3825181 v3825183 v36382 v36382 v36384 v36385 v36385 v36386 v37412 v37412 v37413 v37414 v37415 v37419 v37420 v122620	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5378] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P5512] All manufacturing (index, 1997=100) [P5523] Total excluding food and beverage manufacturing (index, 1997=100) [P6491] Food and beverage manufacturing [311, 3121] (index, 1997=100) [P6492] Food and beverage manufacturing index, 1997=100) [P6492] Food and beverage manufacturing index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total, all commodities (index, 82-90=100) [B3300] Energy (index, 82-90=100) [B3302] Food (index, 82-90=100) [B3303] Industrial materials (index, 82-90=100) [B3304] Tables 176-00(46,47), 184-0002 Stock market statistics Toronto Stock Exchange, value of shares traded (dollars - millions) [B4213] Toronto Stock Exchange, value of shares traded (dollars - millions) [B4214] United States common stocks, Dow-Jones industrials, how (index) [B4219] United States common stocks, Dow-Jones industrials, how (index) [B4220] New York Stock Exchange, customers' free credit balance (dollars - millions) [B4237] Toronto Stock Exchange, customers' free redit balances (dollars - millions) [B4234] New York Stock Exchange, customers' free redit balances (dollars - millions) [B4234] New York Stock Exchange, customers' free redit balance (dollars - millions) [B4234]
151 152 153 154 155 156 157 158 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176	v1575934 v1575958 v1575958 v1575495 v1575511 v1575511 v157551 v3822562 v38225177 v38225177 v38225179 v3825181 v3825181 v3825183 v36382 v36382 v36384 v36385 v3638 v36385 v36585 v36585 v36585 v36585 v36585 v36585 v36585 v36585 v36585 v36585 v	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5878] Industrial trucks, tractors and parts (index, 1997=100) [P529] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P542] All manufacturing (index, 1997=100) [P5451] All manufacturing (index, 1997=100) [P5512] All manufacturing food and beverage manufacturing (index, 1997=100) [P6491] Food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6495] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total excluding energy (index, 82-90=100) [B3301] Total excluding energy (index, 82-90=100) [B3304] Tables 176-00(46,47), 184-0002 Stock market statistics Toronto Stock Exchange, volue of shares traded (dollars - millions) [B4213] Toronto Stock Exchange, volue of shares traded (shares - millions) [B4214] United States common stocks, Dow-Jones industrials, logw (index) [B4219] United States common stocks, Dow-Jones industrials, logw (index) [B4220] New York Stock Exchange, customers' debit balances (dollars - millions) [B4223] New York Stock Exchange, customers' fee credit balance (dollars - millions) [B4223] New York Stock Exchange, customers' fee credit balance (dollars - millions) [B4223] New York Stock Exchange, customers' free credit balances (dollars - millions) [B4223] New York Stock Exchange, customers' free credit balances (dollars - millions) [B4223] New York Stock Exchange, customers' free credit balances (dollars - millions) [B4224]
$\begin{array}{c} 151\\ 152\\ 153\\ 154\\ 155\\ 156\\ 157\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 166\\ 166\\ 166\\ 166\\ 167\\ 168\\ 168\\ 170\\ 171\\ 172\\ 173\\ 176\\ 176\\ 177\\ 178\\ 179\\ 179\\ 179\\ 179\\ 179\\ 179\\ 179\\ 179$	v1575934 v1575958 v1575457 v1575493 v1575511 v1575511 v157557 v3822562 v3825178 v3825178 v3825178 v3825178 v3825181 v3825181 v3825183 v36382 v36382 v36384 v36385 v36386 v37412 v37412 v37413 v37414 v37415 v37419 v37420 v122620 v122628 v6385	555555555555555555555555555555555555555	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5878] Industrial trucks, tractors and parts (index, 1997=100) [P5329] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P5423] All manufacturing (index, 1997=100) [P5423] All manufacturing (index, 1997=100) [P5423] Total excluding food and beverage manufacturing (index, 1997=100) [P6491] Food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing (alca, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6497] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total, all commodities (index, 82-90=100) [B3300] Energy (index, 82-90=100) [B3302] Food (index, 82-90=100) [B3303] Industrial materials (index, 82-90=100) [B3304] Tables 176-00(46,47), 184-0002 Stock market statistics Toronto Stock Exchange, value of shares traded (dollars - millions) [B4213] Toronto Stock Exchange, value of shares traded (dollars - millions) [B4214] United States common stocks, Dow-Jones industrials, low (index) [B4219] United States common stocks, Dow-Jones industrials, low (index) [B4219] United States common stocks, Dow-Jones industrials, low (index) [B4223] New York Stock Exchange, customers' free credit balance (dollars - millions) [B4223] New York Stock Exchange, customers' free credit balance (dollars - millions) [B4224] Standard and Poor's/Toronto Stock Exchange composite Index, close (index, 1975=1000) [B4237] Toronto Stock Exchange, customers' free credit balance (dollars - millions) [B4224] Standard and Poor's/Toronto Stock Exchange composit
151 152 153 154 155 156 157 158 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176	v1575934 v1575958 v1575958 v1575495 v1575511 v1575511 v157551 v3822562 v38225177 v38225177 v38225179 v3825181 v3825181 v3825183 v36382 v36382 v36384 v36385 v3638 v36385 v36585 v36585 v36585 v36585 v36585 v36585 v36585 v36585 v36585 v36585 v	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Heavy fuel oil (index, 1997=100) [P5823] Lubricating oils and greases (index, 1997=100) [P5854] Asphalt mixtures and emulsions (index, 1997=100) [P5878] Industrial trucks, tractors and parts (index, 1997=100) [P529] Parts, air conditioning and refrigeration equipment (index, 1997=100) [P5365] Food products industrial machinery and equipment (index, 1997=100) [P5383] Trucks, chassis, tractors, commercial (index, 1997=100) [P5429] Motor vehicle brakes (index, 1997=100) [P542] All manufacturing (index, 1997=100) [P5451] All manufacturing (index, 1997=100) [P5512] All manufacturing food and beverage manufacturing (index, 1997=100) [P6491] Food and beverage manufacturing (index, 1997=100) [P6492] Food and beverage manufacturing (index, 1997=100) [P6493] Non-food (including alcoholic beverages) manufacturing (index, 1997=100) [P6494] Basic manufacturing industries [321, 322, 327, 331] (index, 1997=100) [P6495] Primary metal manufacturing excluding precious metals (index, 1997=100) [P6495] Table 176-0001 Commodity price index, US\$ (index, 82-90=100) Total excluding energy (index, 82-90=100) [B3301] Total excluding energy (index, 82-90=100) [B3304] Tables 176-00(46,47), 184-0002 Stock market statistics Toronto Stock Exchange, volue of shares traded (dollars - millions) [B4213] Toronto Stock Exchange, volue of shares traded (shares - millions) [B4214] United States common stocks, Dow-Jones industrials, logw (index) [B4219] United States common stocks, Dow-Jones industrials, logw (index) [B4220] New York Stock Exchange, customers' debit balances (dollars - millions) [B4223] New York Stock Exchange, customers' fee credit balance (dollars - millions) [B4223] New York Stock Exchange, customers' fee credit balance (dollars - millions) [B4223] New York Stock Exchange, customers' free credit balances (dollars - millions) [B4223] New York Stock Exchange, customers' free credit balances (dollars - millions) [B4223] New York Stock Exchange, customers' free credit balances (dollars - millions) [B4224]

			Table 176-0064 Foreign exchange rates
181	v37426	1 1	United States dollar, noon spot rate, average (dollars) [B3400] United States dollar, down forward a construct (dollars) [B2401]
$182 \\ 183$	v37437 v37452	1	United States dollar, 90-day forward noon rate (dollars) [B3401] Danish krone, noon spot rate, average (dollars) [B3403]
184	v37456	1	Japanese yen, noon spot rate, average (dollars) [B3405]
185	v37427	1	Norwegian krone, noon spot rate, average (dollars) [20107]
186	v37428	1	Swedish krona, noon spot rate, average (dollars) [B3410]
187	v37429	1	Swiss franc, noon spot rate, average (dollars) [B3411]
188	v37430	1	United Kingdom pound sterling, noon spot rate, average (dollars) [B3412]
189	v37431	1	United Kingdom pound sterling, 90-day forward noon rate (dollars) [B3413]
190	v37432	1	United States dollar, closing spot rate (dollars) [B3414]
191	v37433	1	United States dollar, highest spot rate (dollars) [B3415]
$192 \\ 193$	v37434 v37435	1 1	United States dollar, lowest spot rate (dollars) [B3416] United States dollar, 90-day forward closing rate (dollars) [B3417]
194	v41498903	1	Canadia dollar effective exchange rate index (CERI) (1992=100) (dollars)
101	111100000	-	
			Table 176-0043 Interest rates
195	v122550	1	Bank rate, last Tuesday or last Thursday (percent) [B14079]
196	v122530	1	Bank rate (percent) [B14006]
197	v122495	1	Chartered bank administered interest rates - prime business (percent) [B14020]
198	v122505	1	Forward premium or discount (-), United States dollar in Canada: 3 month (percent) [B14034]
199 200	v122509 v122556	1 1	Prime corporate paper rate: 1 month (percent) [B14039] Prime corporate paper rate: 2 month (percent) [B14084]
200	v122330 v122491	1	Prime corporate paper rate: 3 month (percent) [B14004]
202	v122504	1	Bankers' acceptances: 1 month (percent) [B1403]
203	v122558	1	Government of Canada marketable bonds, average yield: 1-3 year (percent) [B14009]
204	v122485	1	Government of Canada marketable bonds, average yield: 3-5 year (percent) [B14010]
205	v122486	1	Government of Canada marketable bonds, average yield: 5-10 year (percent) [B14011]
206	v122487	1	Government of Canada marketable bonds, average yield: over 10 years (percent) [B14013]
207	v122515	1	Chartered bank - 5 year personal fixed term (percent) [B14045]
208	v122493	1	Chartered bank - non-chequable savings deposits (percent) [B140019]
$209 \\ 210$	v122541 v122484	1 1	Treasury bill auction - average yields: 3 month (percent) [B14007] Treasury bill auction - average yields: 3 month, average at values (percent) [B14001]
210 211	v122484 v122552	1	Treasury bill auction - average yields: 6 month, average at values (percent) [b14001] Treasury bill auction - average yields: 6 month (percent) [B14008]
212	v122554	1	Treasing bin alcohol - average yields o monito [precent) [precent] [precent]
213	v122531	1	Treasury bills: 3 month (percent) [B14060]
214	v122499	1	Government of Canada marketable bonds, average yield, average of Wednesdays: 1-3 year (percent) [B14028]
215	v122500	1	Government of Canada marketable bonds, average yield, average of Wednesdays: 3-5 year (percent) [B14029]
216	v122502	1	Government of Canada marketable bonds, average yield, average of Wednesdays: 5-10 year (percent) [B14030]
217	v122501	1	Government of Canada marketable bonds, average yield, average of Wednesdays: over 10 years (percent) [B14003]
$218 \\ 219$	v122497 v122506	1 1	Average residential mortgage lending rate: 5 year (percent) [B14024] Chartered bank - chequable personal savings deposit rate (percent) [B14035]
219	v122507	1	Covered differential: Canada-United States 3 month Treasury bills (percent) [B14036]
221	v122508	1	Covered differential: Canada-United States 3 month inclusion paper (percent) [B14038]
222	v122510	1	First coupon of Canada Savings Bonds (percent) [B14040]
			Table 176-0051 Canada's official international reserves
223	v122396	5	Total, Canada's official international reserves (dollars - millions) [B3800]
224	v122397	5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars (dollars - millions) [B3801]
$224 \\ 225$	v122397 v122398	5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802]
224 225 226	v122397 v122398 v122399	5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803]
$224 \\ 225$	v122397 v122398	5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802]
224 225 226	v122397 v122398 v122399	5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803]
224 225 226 227 228	v122397 v122398 v122399	5 5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165]
224 225 226 227 228 229	v122397 v122398 v122399 v122401 v36414 v36415	5 5 5 5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166]
224 225 226 227 228 229 230	v122397 v122398 v122399 v122401 v36414 v36415 v36416	5 5 5 5 5 5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167]
224 225 226 227 228 229 230 231	v122397 v122398 v122399 v122401 v36414 v36415 v36416 v36417	5 5 5 5 5 5 5 5 5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168]
224 225 226 227 228 229 230 231 232	v122397 v122398 v122399 v122401 v36414 v36415 v36415 v36417 v36417	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars - millions) [B3801] Convertible foreign currencies, United States dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B168]
224 225 226 227 228 229 230 231 232 233	$\begin{array}{c} v122397\\ v122398\\ v122399\\ v122401\\ \\ v36414\\ v36415\\ v36415\\ v36416\\ v36417\\ v36418\\ v36419\\ \end{array}$	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B166] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B169] Other business credit; Seasonally adjusted (dollars - millions) [B170]
224 225 226 227 228 229 230 231 232	v122397 v122398 v122399 v122401 v36414 v36415 v36415 v36417 v36417	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars - millions) [B3801] Convertible foreign currencies, United States dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B169]
224 225 226 227 228 229 230 231 232 233 233 234	v122397 v122398 v122399 v122401 v36414 v36415 v36416 v36417 v36417 v36418 v36419 v36420	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B169] Other business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B171] Table 176-0025 Monetary aggregates
224 225 226 227 228 229 230 231 232 233 234 235	v122397 v122398 v122399 v122401 v36414 v36415 v36415 v36416 v36417 v36418 v36418 v36419 v36420 v37148	5 5 5 5 5 5 5 5 5 5 5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars - dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B169] Other business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B171] Table 176-0025 Monetary aggregates Currency outside banks (dollars - millions) [B1604]
224 225 226 227 228 229 230 231 232 233 234 235 236	v122397 v122398 v122399 v122401 v36414 v36415 v36416 v36417 v36417 v36419 v36420 v37148 v37153	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B168] Other business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B171] Table 176-0025 Monetary aggregates Currency outside banks (dollars - millions) [B1604] Canadian dollar assets, total loans (dollars - millions) [B1605]
224 225 226 227 228 229 230 231 232 233 234 235 236 237	v122397 v122398 v122399 v122401 v36414 v36415 v36416 v36417 v36417 v36418 v36419 v36420 v37148 v37148 v37153 v37154	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars - millions) [B3801] Convertible foreign currencies, United States dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B169] Other business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business (collars - millions) [B1604] Currency outside banks (dollars - millions) [B1605] General loans (including grain dealers and installment finance companies) (dollars - millions) [B1606]
224 225 226 227 228 229 230 231 232 233 234 235 236 235 236 237 238	v122397 v122398 v122399 v122401 v36414 v36415 v36415 v36417 v36418 v36419 v36420 v36420 v37148 v37153 v37154 v37107	555555555555555555555555555555555555555	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, other than United States (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B169] Other business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business total constant aggregates Currency outside banks (dollars - millions) [B1604] Canadian dollar assets, total loans (dollars - millions) [B1605] General loans (including grain dealers and installment finance companies) (dollars - millions) [B1606] Total, major assets (dollars - millions) [B1611]
224 225 226 227 228 229 230 231 233 234 233 234 235 236 237 238 239	v122397 v122398 v122398 v122399 v122401 v36414 v36415 v36416 v36416 v36417 v36417 v36419 v36420 v37148 v36420 v37148 v37153 v37154 v37107 v37111	555555555555555555555555555555555555555	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B169] Other business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B171] Table 176-0025 Monetary aggregates Currency outside banks (dollars - millions) [B1604] Canadia ndollar assets, total loans (dollars - millions) [B1605] General loans (including grain dealers and installment finance companies) (dollars - millions) [B1606] Total, major assets, liquid asset (dollars - millions) [B161] Canadian dollar assets, total vassets, total vassets (dollars - millions) [B161]
224 225 226 227 228 229 230 231 232 233 234 235 236 235 236 237 238	v122397 v122398 v122399 v122401 v36414 v36415 v36415 v36417 v36418 v36419 v36420 v36420 v37148 v37153 v37154 v37107	555555555555555555555555555555555555555	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, other than United States (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B169] Other business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business total constant aggregates Currency outside banks (dollars - millions) [B1604] Canadian dollar assets, total loans (dollars - millions) [B1605] General loans (including grain dealers and installment finance companies) (dollars - millions) [B1606] Total, major assets (dollars - millions) [B1611]
224 225 226 227 228 230 231 232 233 234 235 236 237 238 237 238 239 240	v122397 v122398 v122399 v122401 v36414 v36415 v36415 v36416 v36418 v36418 v36419 v36419 v36419 v36419 v36420 v37148 v37153 v37115 v37111 v37112	5555 5555555555555555555555555555555555	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B169] Other business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B170] Conadian dollar assets, total loans (dollars - millions) [B1605] General loans (including grain dealers and installment finance companies) (dollars - millions) [B1606] Total, major assets (dollars - millions) [B161] Canadian dollar assets, liquid assets (dollars - millions) [B1615] Canadian dollar assets, leguid assets (dollars - millions) [B1616] Total personal loans, average of Wednesdays (dollars - millions) [B1616] Total personal loans, average of Wednesdays (dollars - millions) [B162]
224 225 226 227 228 229 230 231 232 233 234 235 236 235 236 237 238 239 240 241 242	v122397 v122398 v122399 v122401 v36414 v36415 v36416 v36417 v36419 v36420 v37148 v37153 v37154 v37153 v37154 v37110 v37111 v37112 v371120 v37120	5555 5555555555555555555555555555555555	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B169] Other business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B171] Table 176-0025 Monetary aggregates Currency outside banks (dollars - millions) [B1604] Canadian dollar assets, total loans (dollars - millions) [B1605] General loans (including grain dealers and installment finance companies) (dollars - millions) [B1606] Total, major assets (dollars - millions) [B1611] Canadian dollar assets, liquid assets (dollars - millions) [B1616] Canadian dollar assets, liquid assets (dollars - millions) [B162] Business loans, average of Wednesdays (dollars - millions) [B162] Business l
224 225 226 227 228 229 230 232 233 234 235 234 235 236 237 238 239 240 240 241 242 243	v122397 v122398 v122398 v122399 v122401 v36414 v36415 v36416 v36416 v36416 v36418 v36419 v36420 v37148 v36420 v37148 v37153 v37154 v37110 v37111 v37112 v37119 v37119 v37120 v41552795	5555 5555555555555555555555555555555555	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, United States dollars - millions) [B3801] Convertible foreign currencies, United States dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B3805] Table 176-0032 Credit measures Total business and household credit; Seasonally adjusted (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B166] Business credit; Seasonally adjusted (dollars - millions) [B166] Other business credit; Seasonally adjusted (dollars - millions) [B169] Other business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B170] Canadian dollar assets, total loans (dollars - millions) [B1605] General loans (including grain dealers and installment finance companies) (dollars - millions) [B1606] Total, major assets, (dollars - millions) [B1611] Canadian dollar assets, less liquid assets (dollars - millions) [B1615] Canadian dollar assets, less (dollars - millions) [B1616] Total personal loans, average of Wednesdays (dollars - millions) [B162] Business loans, average of Wednesdays (dollars - millions) [B1623] Currency outside banks and chartered bank chequable deposits, less inter-bank chequable deposits) (dollars - millions) M1B (gross) (currency outside banks, chartered bank chequable deposits, less inter-bank chequable deposits) (dollars - millions)
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224 225 226 227 228 229 230 231 232 232 233 234 235 236 237 238 239 240 241 242 245 244 245 244 245 244 245 245 255	<pre>v122397 v122398 v122399 v122401 v36414 v36415 v36416 v36417 v36419 v36420 v37148 v36420 v37148 v37154 v37154 v37117 v37111 v37112 v37119 v37120 v41552793 v41552795 v41552795 v41552797 v37130 v41552798 v37138 v37138 v37135 v37146 v37146 v37147</pre>	5555 555555 555555555555555555555555555	Total, Canada's official international reserves (dollars - millions) [B3800] Convertible foreign currencies, other than United States (dollars - millions) [B3801] Convertible foreign currencies, other than United States (dollars - millions) [B3802] Gold (dollars - millions) [B3803] Reserve position in the International Monetary Fund (IMF) (dollars - millions) [B165] Household credit; Seasonally adjusted (dollars - millions) [B166] Residential mortgage credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B167] Consumer credit; Seasonally adjusted (dollars - millions) [B168] Business credit; Seasonally adjusted (dollars - millions) [B168] Other business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B170] Short-term business credit; Seasonally adjusted (dollars - millions) [B170] Table 176-0025 Monetary aggregates Currency outside banks (dollars - millions) [B1604] Canadian dollar assets, total loans (dollars - millions) [B1605] General loans (including grain dealers and installment finance companies) (dollars - millions) [B1606] Total, major assets (dollars - millions) [B1611] Canadian dollar assets, liquid assets (dollars - millions) [B1622] Business loans, average of Wednesdays (dollars - millions) [B1623] Currency outside banks, and chartered bank deposits, less inter-bank chequable deposits, (dollars - millions) M1B (gross) (currency outside banks, chartered bank deposits (including private sector float) (dollars - millions) M1B (gross) (currency outside banks, chartered bank deposits (including private sector float) (dollars - millions) M1B (gross) (currency outside banks, chartered bank deposits (including private sector float) (dollars - millions) M1B (gross) (currency outside banks, chartered bank deposits (including private sector float) (dollars - millions) Currency outside banks and chartered bank deposits (including private sector float)

			Table 282-0087 LFS, SA, Canada and provinces
258	v2062811	5	Canada; Employment; Both sexes; 15 years and over; Seasonally adjusted (persons - thousands)
259	v2062815	1	Canada; Unemployment rate; Both sexes; 15 years and over; Seasonally adjusted (rate)
260	v2063000	5	Newfoundland and Labrador; Employment; Both sexes; 15 years and over; Seasonally adjusted (persons - thousands)
261	v2063004	1	Newfoundland and Labrador; Unemployment rate; Both sexes; 15 years and over; Seasonally adjusted (rate)
$262 \\ 263$	v2063189 v2063193	5 1	Prince Edward Island; Employment; Both sexes; 15 years and over; Seasonally adjusted (persons - thousands) Prince Edward Island; Unemployment rate; Both sexes; 15 years and over; Seasonally adjusted (rate)
264	v2063378	5	Nova Scotia; Employment; Both sexes; 15 years and over; Seasonally adjusted (persons - thousands)
265	v2063382	1	Nova Scotia; Unemployment rate; Both seas; 15 years and over; Seasonally adjusted (rate)
266	v2063567	5	New Brunswick; Employment; Both sexes; 15 years and over; Seasonally adjusted (persons - thousands)
267	v2063571	1	New Brunswick; Unemployment rate; Both sexes; 15 years and over; Seasonally adjusted (rate)
268	v2063756	5	Quebec; Employment; Both sexes; 15 years and over; Seasonally adjusted (persons - thousands)
269	v2063760	1	Quebec; Unemployment rate; Both sexes; 15 years and over; Seasonally adjusted (rate)
270 271	v2063945 v2063949	5 1	Ontario; Employment; Both sexes; 15 years and over; Seasonally adjusted (persons - thousands) Ontario; Unemployment rate; Both sexes; 15 years and over; Seasonally adjusted (rate)
271	v2063949 v2064134	5	Uniario; Unemployment rate; Bour sexes; 15 years and over; Seasonally adjusted (persons - thousands) Manitoba; Employment; Both sexes; 15 years and over; Seasonally adjusted (persons - thousands)
273	v2064138	ĩ	Manitoba; Unemployment rate; Both sexes; 15 years and over; Seasonally adjusted (rate)
274	v2064323	5	Saskatchewan; Employment; Both sexes; 15 years and over; Seasonally adjusted (persons - thousands)
275	v2064327	1	Saskatchewan; Unemployment rate; Both sexes; 15 years and over; Seasonally adjusted (rate)
276	v2064512	5	Alberta; Employment; Both sexes; 15 years and over; Seasonally adjusted (persons - thousands)
277	v2064516	1	Alberta; Unemployment rate; Both sexes; 15 years and over; Seasonally adjusted (rate)
278 279	v2064701 v2064705	5 1	British Columbia; Employment; Both sexes; 15 years and over; Seasonally adjusted (persons - thousands) British Columbia; Unemployment rate; Both sexes; 15 years and over; Seasonally adjusted (rate)
210	V2004703	T	Bittish Columbia, Onemployment rate, Both sexes, 15 years and over, Seasonariy adjusted (rate)
			Table 282-0088 Employment by industry
280	v2057603	5	Total employed, all industries; Seasonally adjusted (persons - thousands)
281	v2057604	5	Goods-producing sector; Seasonally adjusted (persons - thousands)
282	v2057605	5	Agriculture [1100-1129, 1151-1152]; Seasonally adjusted (persons - thousands)
283	v2057606	5	Forestry, fishing, mining, oil and gas [1131-1133, 1141-1142, 1153, 2100-2131]; Seasonally adjusted (persons - thousands)
$284 \\ 285$	v2057607 v2057608	5 5	Utilities [2211-2213]; Seasonally adjusted (persons - thousands) Construction [2361-2389]; Seasonally adjusted (persons - thousands)
285	v2057609	5	Construction [2501-2503]; Seasonary adjusted (persons - thousands) Manufacturing [2211-3219, 3211-3279, 3311-3399, 3111-33169, 3221-3262]; Seasonally adjusted (persons - thousands)
287	v2057610	5	Services-producing sector; Seasonally adjusted (persons - thousands)
288	v2057611	5	Trade [4111-4191, 4411-4543]; Seasonally adjusted (persons - thousands)
289	v2057612	5	Transportation and warehousing [4811-4931]; Seasonally adjusted (persons - thousands)
290	v2057613	5	Finance, insurance, real estate and leasing [5211-5269, 5311-5331]; Seasonally adjusted (persons - thousands)
291 292	v2057614 v2057615	5	Professional, scientific and technical services [5411-5419]; Seasonally adjusted (persons - thousands) Business huilding and other support conviges [5511-5620]. Seasonally adjusted (normany - thousands)
292 293	v2057615 v2057616	5 5	Business, building and other support services [5511-5629]; Seasonally adjusted (persons - thousands) Educational services [6111-6117]; Seasonally adjusted (persons - thousands)
293	v2057617	5	Health care and social assistance [6211-6241]; Seasonally adjusted (persons - indusands)
295	v2057618	5	Information, culture and recreation [5111-5191, 7111-7139]; Seasonally adjusted (persons - thousands)
296	v2057619	5	Accommodation and food services [7211-7224]; Seasonally adjusted (persons - thousands)
297	v2057620	5	Other services [8111-8141]; Seasonally adjusted (persons - thousands)
298	v2057621	5	Public administration [9110-9191]; Seasonally adjusted (persons - thousands)
299	v183474	5	Tables 228-00(01,41) Merchandise imports and exports Canada, SA Imports, United States, including Puerto Rico and Virgin Islands (dollars - millions) [D398058]
300	v183475	5	Imports, United Diacos, metaling i der treb new and vign stands (denars - minors) [Dosoboo] Imports, United Kingdom (dellars - millions) [D398059]
301	v183476	5	Imports, Other European Economic Community (dollars - millions) [D398060]
302	v183477	5	Imports, Japan (dollars - millions) [D398061]
303	v191559	5	Exports, United States, including Puerto Rico and Virgin Islands (dollars - millions) [D399518]
304	v191560	5	Exports, United Kingdom (dollars - millions) [D399519]
305	v191561	5	Exports, Other European Economic Community (dollars - millions) [D399520]
306 307	v191562 v21386488	5 5	Exports, Japan (dollars - millions) [D399521] Imports, total of all merchandise (dollars - millions)
308	v21386489	5	Imports, total of an interchanges (unlists - minimus) Imports, Sector 1 Agricultural and fishing products (dollars - millions)
309	v21386492	5	Imports, Sector 2 Energy products (dollars - millions)
310	v21386495	5	Imports, Sector 3 Forestry products (dollars - millions)
311	v21386496	5	Imports, Sector 4 Industrial goods and materials (dollars - millions)
312	v21386500	5	Imports, Sector 5 Machinery and equipment (dollars - millions)
$313 \\ 314$	v21386505 v21386509	5 5	Imports, Sector 6 Automotive products (dollars - millions) Imports, Sector 7 Other consumer goods (dollars - millions)
314	v21386512	5	Imports, Sector / Other consumer goods (dollars - millions) Imports, Sector 8 Special transactions trade (dollars - millions)
316	v21386514	5	Exports, total of all merchandise (dollars - millions)
317	v21386515	5	Exports, Sector 1 Agricultural and fishing products (dollars - millions)
318	v21386518	5	Exports, Sector 2 Energy products (dollars - millions)
319	v21386522	5	Exports, Sector 3 Forestry products (dollars - millions)
$320 \\ 321$	v21386526 v21386531	5 5	Exports, Sector 4 Industrial goods and materials (dollars - millions) Exports, Sector 5 Machinery and equipment (dollars - millions)
321	v21386535 v21386535	5 5	Exports, Sector 5 Machinery and equipment (dollars - millions) Exports, Sector 6 Automotive products (dollars - millions)
323	v21386539	5	Exports, Sector 0 Automotive products (dollars - minlions)
324	v21386540	5	Exports, Sector 8 Special transactions trade (dollars - millions)
0.00	4005	-	Table 026-0008: Building permits, values by activity sector; Canada
326 327	v4667 v4668	5 5	Total residential and non-residential (dollars - thousands) [D2677] Residential (dollars - thousands) [D2681]
327	v4668 v4669	5 5	Residential (dollars - thousands) [D2081] Non-residential (dollars - thousands) [D4898]
329	v4670	5	Industrial (dollars - thousands) [D-2678]
330	v4671	5	Commercial (dollars - thousands) [D2679]
331	v4672	5	Institutional and governmental (dollars - thousands) [D2680]
999	EVEE M		US interest rates from Federal Reserve Board of Governors
332 333	FYFF.M FYGM3.M	1 1	Interest Rate: Federal Funds (Effective) (% Per Annum, NSA) Interest Rate: US Treasury Bill, Sec. Mkt. 3-Month (% Per Annum, NSA)
334	FYGM6.M	1	Interest Rate: US Treasury Bill, Sec. Mkt. 5-Month (% Fer Annum, NSA)
335	FYGT1.M	1	Interest Rate: US Treasury Bill, Sec. Mkt. 1-Year (% Per Annum, NSA)
336	FYGT5.M	1	Interest Rate: US Treasury Bill, Sec. Mkt. 5-Year (% Per Annum, NSA)
337	FYGT10.M	1	Interest Rate: US Treasury Bill, Sec. Mkt. 10-Year (% Per Annum, NSA)
			Dev Consider Read Indexes from Detect
338	SCM2AUN(RY)	1	Dex Canadian Bond Indexes from Datastream DEX Capital Corporate, AA Universe
338	SCM2AUN(RY) SCM2ALG(RY)	1	DEX Capital Corporate, AA Universe DEX Capital Overall, AA Long Term
340	SCM2AMT(RY)	1	DEX Capital Overall, AA Mid Term
340	SCM2AMT(RY)	1	DEX Capital Overall, AA Short Term
	. ,		
	DYA A A C Y	_	Moody's US Bond Indexes from Federal Reserve Board of Governors
338	FYAAAC.M	1 1	Bond Yield: Moody's AAA Corporate (% Per Annum) Bond Yield: Moody's BAA Corporate (% Per Annum)
			Bond Yield: Moody's BAA Corporate (% Per Annum)
338	FYBAAC.M	-	