

October 15, 2018

International	2000–17	2017	2018f	2019f	2020f	2000–17	2017	2018f	2019f	2020f
	<b>Real GDP</b> (annual % change)					<b>Consumer Prices</b> (y/y % change, year-end)				
World (based on purchasing power parity)	3.9	3.8	3.8	3.7	3.5					
Canada	2.2	3.0	2.1	2.2	1.8	1.9	1.8	2.9	2.1	2.0
United States	2.0	2.2	2.9	2.4	1.7	2.2	2.1	2.4	2.2	2.1
Mexico	2.2	2.0	1.8	2.1	2.4	4.4	6.8	5.1	4.1	3.8
United Kingdom	1.9	1.7	1.4	1.5	1.5	2.0	2.7	2.3	2.1	2.0
Eurozone	1.3	2.4	2.0	1.9	1.7	1.8	1.4	1.9	1.7	1.9
Germany	1.4	2.2	1.9	1.9	1.6	1.5	1.7	1.8	1.9	2.2
France	1.4	2.2	1.6	1.6	1.6	1.4	1.2	1.6	2.2	1.5
China	9.3	6.9	6.6	6.2	6.0	2.3	1.8	2.4	2.5	2.3
India	7.0	6.3	7.6	7.5	7.5	6.8	5.2	4.0	5.2	4.8
Japan	1.0	1.7	1.2	1.0	0.9	0.1	1.0	1.0	2.3	1.1
South Korea	4.1	3.1	2.9	2.8	2.6	2.6	1.5	2.2	2.5	2.2
Australia	2.9	2.2	3.1	2.7	2.5	2.7	1.9	2.0	2.5	2.6
Thailand	4.0	3.9	4.3	3.8	3.5	1.9	0.8	1.2	2.0	2.2
Brazil	2.5	1.0	1.3	1.8	2.1	6.5	3.0	4.7	5.1	4.6
Colombia	3.9	1.8	2.5	3.5	3.6	5.1	4.1	3.4	3.6	3.6
Peru	5.0	2.5	3.7	4.0	4.1	2.7	1.4	2.0	2.5	2.5
Chile	3.9	1.5	3.9	3.2	3.2	3.3	2.3	3.2	3.0	3.0
<b>Commodities</b>	(annual average)									
WTI Oil (USD/bbl)	62	51	68	72	69					
Brent Oil (USD/bbl)	65	55	74	80	75					
WCS - WTI Discount* (USD/bbl)	-16	-13	-27	-24	-21					
Nymex Natural Gas (USD/mmbtu)	4.83	3.02	2.93	2.93	3.00					
Copper (USD/lb)	2.38	2.80	2.99	3.00	3.20					
Zinc (USD/lb)	0.84	1.31	1.33	1.30	1.25					
Nickel (USD/lb)	7.12	4.72	6.15	6.50	7.00					
Aluminium (USD/lb)	0.87	0.89	0.95	1.00	1.00					
Iron Ore (USD/tonne)	67	72	65	65	60					
Metallurgical Coal (USD/tonne)	131	187	205	175	160					
Gold, London PM Fix (USD/oz)	890	1,257	1,262	1,300	1,300					
Silver, London PM Fix (USD/oz)	14.80	17.05	15.70	17.00	17.00					
* 2008-16 average.										
Sources: Scotiabank Economics, Statistics Canada, BEA, BLS, IMF, Bloomberg.										

North America	2000–17	2017	2018f	2019f	2020f	2000–17	2017	2018f	2019f	2020f
	Canada (annual % change, unless noted)					United States (annual % change, unless noted)				
Real GDP	2.2	3.0	2.1	2.2	1.8	2.0	2.2	2.9	2.4	1.7
Consumer spending	2.9	3.4	2.2	2.1	1.7	2.4	2.5	2.6	2.4	1.8
Residential investment	3.7	2.8	-0.2	0.6	0.9	-0.3	3.3	0.5	1.3	1.9
Business investment	2.2	2.7	6.4	2.7	6.2	3.0	5.3	6.9	3.1	2.3
Government	2.2	2.6	2.6	1.4	1.6	1.0	-0.1	1.8	2.3	1.6
Exports	1.3	1.1	3.1	3.6	2.2	3.7	3.0	4.6	2.3	2.0
Imports	2.9	3.6	4.4	2.5	3.1	3.7	4.6	4.0	3.0	2.7
Nominal GDP	4.3	5.4	4.3	4.6	4.1	4.0	4.2	5.4	5.0	4.1
GDP deflator	2.1	2.3	2.2	2.4	2.2	1.9	1.9	2.5	2.6	2.3
Consumer price index (CPI)	1.9	1.6	2.6	2.4	2.0	2.2	2.1	2.5	2.2	2.1
CPI ex. food & energy	1.6	1.6	1.9	2.2	2.3	2.0	1.8	2.2	2.2	2.2
Pre-tax corporate profits	4.4	19.9	4.4	4.7	2.1	5.3	3.2	6.6	2.8	1.9
Employment	1.4	1.9	1.2	1.0	0.8	0.7	1.6	1.6	1.2	1.0
Unemployment rate (%)	7.1	6.3	5.9	5.8	5.8	6.1	4.4	3.9	3.8	3.8
Current account balance (CAD, USD bn)	-19.7	-63.3	-62.6	-51.5	-54.2	-501	-449	-445	-487	-540
Merchandise trade balance (CAD, USD bn)	22.3	-24.0	-22.6	-12.9	-19.1	-680	-807	-848	-904	-974
Federal budget balance* (FY, CAD, USD bn)	-3.6	-17.8	-20.0	-18.0	-17.0	-540	-665	-805	-1,000	-1,045
percent of GDP	-0.2	-0.9	-0.9	-0.8	-0.7	-3.7	-3.4	-3.9	-4.6	-4.7
Housing starts (000s, mn)	200	220	213	202	201	1.26	1.20	1.27	1.26	1.26
Motor vehicle sales (000s, mn)	1,679	2,041	2,000	1,950	1,900	15.6	17.0	17.0	16.8	16.7
Industrial production	0.8	5.3	3.3	2.3	2.0	0.7	1.6	3.5	2.5	2.1
<b>Mexico</b> (annual % change)										
Real GDP	2.2	2.0	1.8	2.1	2.4					
Consumer price index (year-end)	4.4	6.8	5.1	4.1	3.8					
Current account balance (USD bn)	-14.9	-19.5	-27.4	-24.5	-20.2					
Merchandise trade balance (USD bn)	-7.2	-11.0	-17.1	-16.5	-18.9					

Sources: Scotiabank Economics, Statistics Canada, CMHC, BEA, BLS, Bloomberg. \* Canada federal deficit ex risk adjustment of \$3.0bn for FY19.

Quarterly Forecasts	2017		2018			2019				2020			
	Q4	Q1	Q2	Q3f	Q4f	Q1f	Q2f	Q3f	Q4f	Q1f	Q2f	Q3f	Q4f
<b>Canada</b>													
Real GDP (q/q ann. % change)	1.7	1.4	2.9	2.1	2.4	2.1	2.1	1.9	1.7	2.1	2.0	1.5	1.5
Real GDP (y/y % change)	3.0	2.3	1.9	2.0	2.2	2.4	2.2	2.1	1.9	1.9	1.9	1.8	1.8
Consumer prices (y/y % change)	1.8	2.1	2.3	2.9	2.9	2.8	2.6	2.3	2.1	2.1	2.0	2.0	2.0
Avg. of new core CPIs (y/y % change)	1.7	1.9	2.0	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
<b>United States</b>													
Real GDP (q/q ann. % change)	2.3	2.2	4.2	3.2	2.5	2.1	2.0	1.9	1.8	1.7	1.7	1.6	1.5
Real GDP (y/y % change)	2.5	2.6	2.9	3.0	3.0	3.0	2.4	2.1	1.9	1.9	1.8	1.7	1.6
Consumer prices (y/y % change)	2.1	2.3	2.6	2.6	2.4	2.2	2.2	2.2	2.2	2.1	2.1	2.0	2.1
CPI ex. food & energy (y/y % change)	1.7	1.9	2.2	2.2	2.3	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Core PCE deflator (y/y % change)	1.6	1.7	1.9	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0

Sources: Scotiabank Economics, Statistics Canada, BEA, BLS, Bloomberg.

Central Bank Rates	2018		2019				2020			
	Q3	Q4f	Q1f	Q2f	Q3f	Q4f	Q1f	Q2f	Q3f	Q4f
<b>Americas</b>	(% , end of period)									
Bank of Canada	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.00	3.00	3.00
US Federal Reserve (upper bound)	2.25	2.50	2.75	3.00	3.25	3.25	3.25	3.25	3.25	3.25
Bank of Mexico	7.75	8.00	8.00	8.00	8.00	8.00	8.00	7.50	7.50	7.50
Central Bank of Brazil	6.50	7.25	8.25	8.75	9.25	9.75	10.00	10.00	10.00	10.00
Bank of the Republic of Colombia	4.25	4.50	4.75	5.00	5.25	5.50	5.50	5.50	5.50	5.50
Central Reserve Bank of Peru	2.75	2.75	3.00	3.00	3.25	3.25	3.50	3.75	4.00	4.00
Central Bank of Chile	2.50	2.75	3.00	3.25	3.50	3.75	3.75	4.00	4.00	4.00
<b>Europe</b>										
European Central Bank	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.50	0.50
Bank of England	0.75	0.75	0.75	0.75	0.75	1.00	1.00	1.00	1.00	1.00
<b>Asia/Oceania</b>										
Reserve Bank of Australia	1.50	1.50	1.50	1.75	1.75	2.00	2.00	2.25	2.25	2.50
Bank of Japan	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
People's Bank of China	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35
Reserve Bank of India	6.50	6.75	6.75	7.00	7.00	7.25	7.25	7.25	7.25	7.25
Bank of Korea	1.50	1.75	1.75	2.00	2.00	2.25	2.25	2.50	2.50	2.50
Bank of Thailand	1.50	1.75	1.75	2.00	2.00	2.25	2.25	2.25	2.25	2.25
<b>Currencies and Interest Rates</b>										
<b>Americas</b>	(end of period)									
Canadian dollar (USDCAD)	1.29	1.28	1.25	1.25	1.22	1.22	1.22	1.22	1.22	1.22
Canadian dollar (CADUSD)	0.77	0.78	0.80	0.80	0.82	0.82	0.82	0.82	0.82	0.82
Mexican peso (USDMXN)	18.72	20.07	20.32	20.15	20.21	20.40	20.50	20.33	20.39	20.69
Brazilian real (USDBRL)	4.05	3.75	4.15	4.34	4.67	4.60	4.21	4.12	4.06	3.89
Colombian peso (USDCOP)	2,966	3,080	3,120	3,100	3,085	3,055	3,050	3,055	3,060	3,065
Peruvian sol (USDPEN)	3.30	3.26	3.27	3.23	3.24	3.22	3.20	3.20	3.20	3.20
Chilean peso (USDCLP)	657	650	650	650	650	650	650	640	640	640
<b>Europe</b>										
Euro (EURUSD)	1.16	1.20	1.22	1.24	1.26	1.30	1.30	1.30	1.32	1.32
UK pound (GBPUSD)	1.30	1.32	1.32	1.35	1.37	1.40	1.42	1.42	1.45	1.45
<b>Asia/Oceania</b>										
Japanese yen (USDJPY)	110	110	110	110	108	108	107	107	105	105
Australian dollar (AUDUSD)	0.73	0.73	0.75	0.77	0.77	0.78	0.78	0.78	0.78	0.78
Chinese yuan (USDCNY)	6.87	6.90	6.80	6.60	6.70	6.70	6.60	6.60	6.50	6.50
Indian rupee (USDINR)	72.5	72.5	72.0	70.0	71.0	71.0	70.0	70.0	69.0	69.0
South Korean won (USDKRW)	1,109	1,100	1,090	1,080	1,085	1,085	1,080	1,080	1,070	1,070
Thai baht (USDTHB)	32.3	32.2	32.0	31.6	31.8	31.8	31.6	31.6	31.4	31.4
<b>Canada (Yields, %)</b>										
3-month T-bill	1.58	1.80	2.05	2.30	2.55	2.80	3.00	3.00	3.00	3.00
2-year Canada	2.21	2.50	2.40	2.55	2.70	2.85	3.05	3.05	3.05	3.05
5-year Canada	2.34	2.55	2.50	2.60	2.75	2.90	3.10	3.10	3.10	3.10
10-year Canada	2.43	2.60	2.60	2.70	2.85	3.00	3.15	3.15	3.15	3.15
30-year Canada	2.42	2.65	2.65	2.75	2.90	3.10	3.30	3.35	3.35	3.35
<b>United States (Yields, %)</b>										
3-month T-bill	2.20	2.45	2.70	2.95	3.20	3.20	3.20	3.20	3.20	3.20
2-year Treasury	2.82	3.00	3.00	3.10	3.30	3.30	3.30	3.30	3.30	3.30
5-year Treasury	2.95	3.15	3.05	3.15	3.35	3.35	3.40	3.40	3.45	3.45
10-year Treasury	3.06	3.25	3.15	3.20	3.40	3.40	3.50	3.50	3.55	3.55
30-year Treasury	3.21	3.40	3.30	3.30	3.50	3.50	3.60	3.60	3.65	3.65

Sources: Scotiabank Economics, Bloomberg.

The Provinces											
	(annual % change except where noted)										
Real GDP	CA	NL	PE	NS	NB	QC	ON	MB	SK	AB	BC
<b>2000–17</b>	2.2	2.4	1.8	1.3	1.3	1.8	2.1	2.4	2.0	2.8	2.8
<b>2017*</b>	3.0	2.1	3.2	1.2	1.9	3.1	2.8	2.9	2.9	4.9	3.9
<b>2018f</b>	2.1	0.5	2.0	1.2	1.1	2.1	2.1	1.9	1.5	2.4	2.4
<b>2019f</b>	2.2	1.2	1.6	1.0	0.9	2.0	2.1	1.9	1.8	2.5	2.7
<b>2020f</b>	1.8	0.8	1.1	0.9	0.9	1.5	1.6	1.5	1.8	2.0	3.6
<b>Nominal GDP</b>											
<b>2000–17</b>	4.3	5.6	4.2	3.3	3.3	3.7	3.9	4.4	5.3	6.0	4.6
<b>2017e</b>	5.4	5.6	4.7	3.1	3.2	4.5	4.8	4.3	5.4	7.9	5.9
<b>2018f</b>	4.3	4.1	3.9	3.2	2.9	3.8	4.1	3.9	4.1	5.5	5.0
<b>2019f</b>	4.6	4.1	3.9	3.1	3.0	4.3	4.6	4.3	4.1	5.5	5.3
<b>2020f</b>	3.7	3.9	2.9	2.8	2.4	3.4	3.7	3.5	4.4	4.8	5.8
<b>Employment</b>											
<b>2000–17</b>	1.4	0.6	1.1	0.6	0.4	1.3	1.3	1.0	1.1	2.2	1.5
<b>2017</b>	1.9	-3.7	3.1	0.6	0.4	2.2	1.8	1.7	-0.2	1.0	3.7
<b>2018f</b>	1.2	0.3	2.5	1.1	0.4	1.1	1.5	0.5	0.0	1.8	0.8
<b>2019f</b>	1.0	0.1	0.9	0.3	0.2	0.9	1.1	0.7	0.5	1.2	1.1
<b>2020f</b>	0.8	-0.1	0.5	0.2	0.2	0.7	0.9	0.6	0.7	1.2	1.1
<b>Unemployment Rate (%)</b>											
<b>2000–17</b>	7.1	14.3	11.1	8.8	9.5	7.9	7.0	5.1	5.0	5.2	6.5
<b>2017</b>	6.3	14.8	9.8	8.4	8.1	6.1	6.0	5.4	6.3	7.8	5.1
<b>2018f</b>	5.9	14.5	9.9	7.9	8.0	5.5	5.6	5.8	6.2	6.6	4.8
<b>2019f</b>	5.8	14.1	10.0	7.8	8.0	5.4	5.5	5.6	6.1	6.5	4.9
<b>2020f</b>	5.8	14.0	10.0	7.7	7.9	5.4	5.5	5.5	6.0	6.4	4.9
<b>Housing Starts (units, 000s)</b>											
<b>2000–17</b>	199	2.6	0.8	4.3	3.5	44	72	5.1	5.2	34	28
<b>2017</b>	220	1.4	1.0	4.0	2.3	46	80	7.6	5.0	29	44
<b>2018f</b>	213	1.5	0.9	4.7	2.1	46	77	6.9	3.7	29	41
<b>2019f</b>	202	1.4	0.8	3.9	2.0	42	72	6.1	4.6	30	39
<b>2020f</b>	201	1.4	0.8	3.8	1.9	41	72	6.1	5.0	31	38
<b>Motor Vehicle Sales (units, 000s)</b>											
<b>2000–17</b>	1,657	29	6	48	38	413	635	47	45	216	180
<b>2017</b>	2,041	33	9	59	42	453	847	62	56	245	235
<b>2018f</b>	2,000	29	9	53	39	450	855	68	48	230	219
<b>2019f</b>	1,950	31	8	50	37	435	825	60	50	225	229
<b>2020f</b>	1,905	30	8	48	35	420	810	55	49	215	235
<b>Budget Balances, Fiscal Year Ending March 31 (CAD mn)</b>											
<b>2000–17**</b>	-3,635	-93	-38	-30	-153	-768	-5,115	-142	307	1,064	454
<b>2017</b>	-17,770	-1,148	-1	151	-117	2,361	-991	-764	-1,218	-10,784	2,737
<b>2018***</b>	-20,000	-911 †	1	230 †	67 †	850	-3,700 †	-695 †	-303 †	-8,023 †	301 †
<b>2019***</b>	-18,000	-683	1	29	-187	0	-15,000	-521	-306	-7,757	669
<b>2020f</b>	-17,000	-507	3	39	-124	0	n/a	-388	6	-7,912	810

Sources: Scotiabank Economics, Statistics Canada, CMHC, Budget documents. \* Real GDP by industry, basic prices. \*\* MB:FY04–FY16; AB:FY05–FY16. \*\*\* Provinces' FY18 & FY19: Budget documents. Federal FY19: ex risk adjustment of \$3.0bn. † FY18 final result.

This report has been prepared by Scotiabank Economics as a resource for the clients of Scotiabank. Opinions, estimates and projections contained herein are our own as of the date hereof and are subject to change without notice. The information and opinions contained herein have been compiled or arrived at from sources believed reliable but no representation or warranty, express or implied, is made as to their accuracy or completeness. Neither Scotiabank nor any of its officers, directors, partners, employees or affiliates accepts any liability whatsoever for any direct or consequential loss arising from any use of this report or its contents.

These reports are provided to you for informational purposes only. This report is not, and is not constructed as, an offer to sell or solicitation of any offer to buy any financial instrument, nor shall this report be construed as an opinion as to whether you should enter into any swap or trading strategy involving a swap or any other transaction. The information contained in this report is not intended to be, and does not constitute, a recommendation of a swap or trading strategy involving a swap within the meaning of U.S. Commodity Futures Trading Commission Regulation 23.434 and Appendix A thereto. This material is not intended to be individually tailored to your needs or characteristics and should not be viewed as a "call to action" or suggestion that you enter into a swap or trading strategy involving a swap or any other transaction. Scotiabank may engage in transactions in a manner inconsistent with the views discussed this report and may have positions, or be in the process of acquiring or disposing of positions, referred to in this report.

Scotiabank, its affiliates and any of their respective officers, directors and employees may from time to time take positions in currencies, act as managers, co-managers or underwriters of a public offering or act as principals or agents, deal in, own or act as market makers or advisors, brokers or commercial and/or investment bankers in relation to securities or related derivatives. As a result of these actions, Scotiabank may receive remuneration. All Scotiabank products and services are subject to the terms of applicable agreements and local regulations. Officers, directors and employees of Scotiabank and its affiliates may serve as directors of corporations.

Any securities discussed in this report may not be suitable for all investors. Scotiabank recommends that investors independently evaluate any issuer and security discussed in this report, and consult with any advisors they deem necessary prior to making any investment.

**This report and all information, opinions and conclusions contained in it are protected by copyright. This information may not be reproduced without the prior express written consent of Scotiabank.**

™ Trademark of The Bank of Nova Scotia. Used under license, where applicable.

Scotiabank, together with "Global Banking and Markets", is a marketing name for the global corporate and investment banking and capital markets businesses of The Bank of Nova Scotia and certain of its affiliates in the countries where they operate, including, Scotiabanc Inc.; Citadel Hill Advisors L.L.C.; The Bank of Nova Scotia Trust Company of New York; Scotiabank Europe plc; Scotiabank (Ireland) Limited; Scotiabank Inverlat S.A., Institución de Banca Múltiple, Scotia Inverlat Casa de Bolsa S.A. de C.V., Scotia Inverlat Derivados S.A. de C.V. – all members of the Scotiabank group and authorized users of the Scotiabank mark. The Bank of Nova Scotia is incorporated in Canada with limited liability and is authorised and regulated by the Office of the Superintendent of Financial Institutions Canada. The Bank of Nova Scotia is authorised by the UK Prudential Regulation Authority and is subject to regulation by the UK Financial Conduct Authority and limited regulation by the UK Prudential Regulation Authority. Details about the extent of The Bank of Nova Scotia's regulation by the UK Prudential Regulation Authority are available from us on request. Scotiabank Europe plc is authorised by the UK Prudential Regulation Authority and regulated by the UK Financial Conduct Authority and the UK Prudential Regulation Authority.

Scotiabank Inverlat, S.A., Scotia Inverlat Casa de Bolsa, S.A. de C.V., and Scotia Derivados, S.A. de C.V., are each authorized and regulated by the Mexican financial authorities.

Not all products and services are offered in all jurisdictions. Services described are available in jurisdictions where permitted by law.