

The long and winding road to recovery

September 13, 2021

The spread of the Delta variant of COVID-19 and slow vaccination rates in many emerging market economies created another detour in the road to recovery for the global economy. Supply chain disruptions and labour shortages continue to weigh on manufacturers ability to deliver product. Services providers are also struggling to find workers while virus spread threatens to limit the recovery in the hospitality sector. While these constraints may act as a speed bump to global growth, the combination of government stimulus, low interest rates and high vaccination rates in advanced economies will keep their recovery on course for the remainder of 2021.

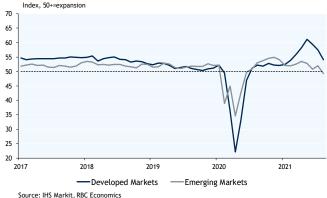
The IMF updated its forecast for the global economy in July though the subsequent rise in infections has created some downside risk to the upgraded outlook for the advanced economies. World GDP was forecasted to post a 6% rise in 2021 followed by a 4.9% increase in 2022.

The US, UK and Euro-area posted impressive gains in the second quarter of 2021 with the US returning to its pre-pandemic level of GDP while the UK and Euro area trimmed the shortfall. The outlier was Canada where longer and more extensive lockdowns resulted in GDP falling in the second guarter pushing the economy further away from where it was before the crisis. The spread of the Delta variant of COVID-19 is generating some downside risk to the near term outlook, however given the high level of vaccinations in Canada, the US, UK and Euro-area we expect fewer restrictions to be implemented making the impact on the economy much less severe than in previous waves.

Staying the course

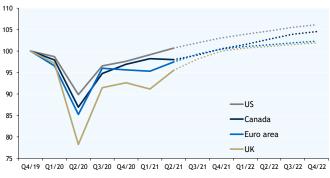
Sizeable government spending and extraordinarily low interest rates will continue to support the recovery. Some government measures are expiring, including a winding down of supports for unemployed workers, but on balance fiscal policy remains supportive. Monetary policy also remains highly accommodative. The Bank of Canada was first to taper asset purchases and will likely stop adding to its balance 2000 sheet holdings by year end. We expect the US Fed to start a similar

Purchasing Managers Index - Composite



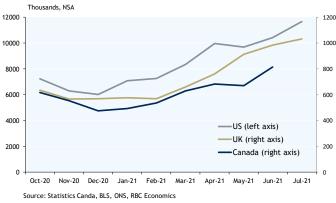
Real GDP: Q2 2021 vs pre-pandemic level

Real GDP indexed to O4-19=100, dotted lines are RBC forecast



Source: Statistics Canada, BEA, ONS, EuroStat, ABS, RBC Economics

Job vacancies



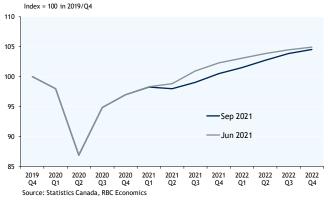
process later this year. Neither central bank however is expected to raise the policy rate until late 2022 which will limit how high rates go from recent lows.

Reliance on policy support is expected to wane as economies are able to reopen. The surge in consumption of goods that fueled the initial stage of the recovery will be replaced by consumption of services, increased business investment as companies rebuild capacity and exports as global trade flows resume. In the near term, supply chain bottlenecks and labour shortages could weigh on the expansion and generate upward pressure on prices. We expect that as businesses increase capacity and workers return to the labour market, these impediments to growth will recede. Price pressures similarly are expected to ease from current elevated levels as the temporary effects associated with the pandemic and reopening fade. That said, inflation rates are likely to remain above prepandemic levels for the remainder of this year and into 2022.

Canada's economy hits speed bump

The economy contracted at a 1% annualized rate in the second quarter as strict lockdown measures early in the quarter hurt spending on services and resulted in job cuts. Consumer spending on goods slumped in the quarter as supply shortages clipped product availability and retailers were forced to close to in-store traffic in parts of the country. Cooling housing market activity also played a role with residential investment falling for the first time in a year. The biggest weight on the quarter however was the sharp decline in exports which mainly reflected a drop in autos and parts. Business spending conversely rose in the quarter as companies worked to boost capacity by investing in machinery and equipment. On net, the Q2 dip left GDP 2% below its pre-shock level.

RBC Canada GDP forecasts by forecast date Index = 100 in 2019/Q4



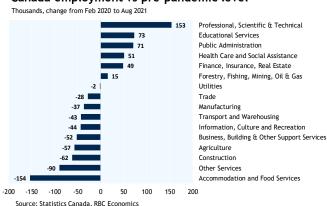
Q3 off to a soft start

The early read on output in July showed the economy slipped again though our tracking of the data suggests that this weakness will prove short-lived. Our data showed consumer spending activity increased in early in the third quarter with the hospitality sector enjoying a surge as virus containment measures eased. And even though activity in the goods sector was restrained by severe supply chain disruptions and labour shortages, exports of manufactured products increased. The quarter may have started on a soft note, but we expect strong increases in August and September as restrictions eased further and schools reopened. Another solid gain in the fourth quarter will result in Canada's economy expanding by 5.1% in 2021, slower than our previous forecast. We've upgraded our forecast for 2022 to 4.3%.

Labour market healing underway, shortages surge

Jobs lost during the spring wave of infections and restrictions were fully recovered in June and July. Another solid rise in August left the pandemic-related deficit at 156,000 meaning 95% of losses have been recovered. Employers faced a growing challenge to find workers with a record 800,000 positions left vacant at the end of June. With the services sectors more fully reopening and vaccination rate rising, more workers are expect to secure positions. However skills

Canada employment vs pre-pandemic level



mismatches and hesitancy to rejoin the workforce given the spread in the Delta variant means this process will take time and in the near term may force businesses to operate at reduced capacity.

Virus spread keeps consumers sitting on savings stockpile

The massive savings stockpile means households have enormous purchasing power to fuel the recovery but as seen in the second quarter's weak showing concerns about another round of virus spread and fear of going out can slow that down. Our base case view is that higher vaccination rates will limit the impact of future virus waves on the economy allowing for household spending on services to rise more quickly over the second half of 2021 and in 2022.

Canada COVID cases vs hospitalizations Left axis: New cases and hospitalizations per million Right axis: Vaccination rate (at least one dose) 250 200 150 Hospitalized New cases Poccinated Source: Our World in Data, RBC Economics

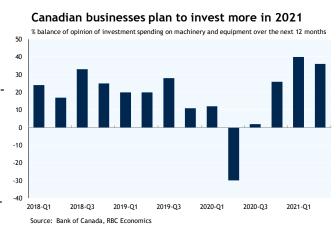
Housing market in transition

Home resales continue to transition toward more normal levels after reaching extreme—and clearly unsustainable—highs earlier this year. A number of factors including opportunities for households to spend on other goods and services as the economy reopened contributed to the easing in sales activity in recent months. The deterioration in affordability and tightening in mortgage stress test also played into the market softening though the main factor was and will continue to be the lack of supply. New listings dropped more than 20% from the March high creating exceptionally tight demand-supply conditions and strong upward pressure on prices.

While we expect demand to continue to cool, more supply will be needed to rebalance the market and stabilize prices. On the supply front, more sellers are likely to emerge as the pandemic disruptions ease further and some of the record number of units under construction are completed. While we project sales to decline by 20% next year, the pace will still be above the 10-year average and prices which increased at a double-digit pace this year are expected to post a more modest gain in 2022.

Business optimism fuels rise in investment

As vaccination rates rose and the economy reopened, businesses became more confident with the Bank of Canada's sentiment index hitting an all-time high in the second quarter. Rather than worries about demand, companies increasingly reported concerns about supply of both inputs and labour. Supply chain disruptions, rising input costs and a scarcity of workers are leaving companies uncertain about whether they could meet demand. In the second quarter, companies invested in machinery and equipment and rebuilt inventories which had been drawn down over the previous four quarters. Firms are expected to continue to invest with some spending more on technology as they shift toward increasing their online presence or managing their workforce.



Firming demand to put floor under inflation correction

Distortions associated with the pandemic contributed to the sharp increase in Canada's inflation rate in recent months. As these transitory factors fade, so too will the inflation rate. However the degree to which inflation pressures ease will be challenged by the

strengthening in demand. In July, the core inflation rate, which excludes food and energy prices, posted the strongest gain in almost two decades and 65% of goods and services in the CPI basket saw their prices rise faster than the Bank of Canada's 2% target on a year-over-year basis. With household demand, particularly for services, expected to firm again in the second half of the year and supply chain constraints remaining, the inflation rate is likely to remain elevated. We expect that as capacity increases and supply chains normalize, price pressures will ease however this will take time with both the headline and core measures forecast to converge to 2.5% by the end of 2022.

Economic forecast detail — Canada

Real growth in the economy
Quarter-over-quarter annualized % change unless otherwise indicated

	<u>2020</u>					20	21			<u>20</u>	<u>22</u>					
	<u>Q1</u>	<u>Q2</u>	<u>Q3</u>	<u>Q4</u>	<u>Q1</u>	<u>Q2</u>	<u>Q3</u>	<u>Q4</u>	<u>Q1</u>	<u>Q2</u>	<u>Q3</u>	<u>Q4</u>	2019	2020	<u>2021F</u>	<u>2022F</u>
Household Consumption	-7.5	-45.4	63.9	0.9	2.6	0.2	9.6	7.6	5.5	5.5	5.0	3.5	1.6	-6.0	4.8	5.9
Durables	-32.0	-42.1	269.2	-1.3	2.7	-6.8	4.5	1.5	1.5	1.5	1.8	1.8	0.0	-3.3	12.4	1.4
Semi-Durables	-31.6	-47.9	200.4	-12.8	8.3	-11.2	5.5	1.8	1.8	2.5	2.0	2.0	2.3	-7.5	7.4	1.5
Non-durables	13.2	-14.3	19.2	5.8	3.7	-6.0	2.0	2.5	1.8	2.5	2.0	2.0	1.2	3.1	2.4	1.6
Services	-6.0	-56.0	44.9	1.3	1.3	7.3	15.5	12.8	9.0	8.5	7.8	5.0	2.1	-10.3	3.8	9.9
NPISH consumption	3.4	-40.3	33.6	15.6	-9.9	4.7	9.6	7.6	5.5	5.5	5.0	3.5	1.6	-6.0	2.9	6.1
Government expenditures Government fixed investment	-2.7 9.5	-15.5 -12.8	22.0 29.6	5.7 8.2	6.9 8.1	6.1 -7.7	1.5 2.5	1.5 2.5	1.0 3.0	2.0 3.0	1.0 3.0	0.7 3.0	2.0 0.3	-0.3 4.1	5.7 4.8	1.6 2.1
Residential investment	-3.9	-45.8	181.9	16.9	42.1	-12.4	-18.1	-7.6	-5.5	-6.0	-6.9	-4.1	-0.2	4.1	15.9	-8.2
Non-residential investment	-4.6	-54.8	20.4	5.9	-5.8	12.1	10.1	12.1	9.2	8.3	6.7	6.5	1.1	-13.6	0.8	9.3
Non-residential structures	1.0	-48.1	-8.4	-6.3	1.9	5.1	13.5	15.8	10.5	7.0	6.5	6.5	1.1	-11.3	-2.8	10.0
Machinery & equipment	-13.7	-65.3	96.3	28.1	-16.7	24.9	4.5	6.0	7.0	10.5	7.0	6.5	1.0	-17.4	6.7	8.1
Intellectual property	-3.9	-28.1	24.0	6.9	18.7	3.3	2.0	2.0	3.0	4.0	5.0	6.0	-1.9	-3.5	7.4	3.3
Final domestic demand	-5.1	-39.2	53.3	4.3	6.5	0.7	4.3	4.7	3.5	3.6	2.9	2.4	1.4	-4.3	5.6	3.5
Exports	-12.0	-53.4	72.3	4.1	3.3	-15.0	7.2	5.0	7.5	7.5	6.2	3.5	1.3	-10.0	1.5	5.0
Imports	-8.3	-64.7	117.4	11.6	4.3	-0.1	3.5	4.0	4.2	6.0	3.5	4.2	0.4	-11.2	6.7	4.0
Inventories (change in \$b)	3.8	-30.1	-37.1	-0.3	-5.8	8.3	3.5	9.0	6.5	11.5	15.6	17.5	18.8	-15.9	3.8	12.8
Real gross domestic product	-7.9	-38.0	41.7	9.3	5.5	-1.1	4.5	6.0	4.0	5.0	4.5	2.5	1.9	-5.3	5.1	4.3

Other indicators

Year-over-year % change unless otherwise indicated

Business and labour																
Productivity	4.9	17.3	5.8	3.7	-1.6	-11.8	-3.3	-0.9	1.5	1.9	3.5	3.3	0.9	7.9	-4.6	2.6
Pre-tax corporate profits	-8.1	-23.4	6.8	9.4	48.2	68.1	26.3	25.3	4.2	4.5	5.4	5.1	0.6	-4.0	39.7	4.8
Unemployment rate (%)*	6.4	13.1	10.1	8.8	8.4	8.0	7.1	6.7	6.5	6.2	6.0	6.0	5.7	9.6	7.6	6.2
Inflation																
Headline CPI	1.8	0.0	0.3	0.8	1.4	3.3	4.0	3.9	3.2	2.5	2.1	2.3	1.9	0.7	3.2	2.5
CPI ex. food and energy	1.8	1.0	0.6	1.1	1.0	2.1	2.8	2.7	2.7	2.6	2.2	2.4	2.1	1.1	2.2	2.5
External trade																
Current account balance (\$b)*	-67.8	-31.7	-39.7	-21.1	7.3	14.3	18.3	19.7	24.0	23.5	32.0	33.5	-47.4	-40.1	14.9	28.3
% of GDP*	-3.0	-1.6	-1.8	-0.9	0.3	0.6	0.7	0.8	0.9	0.9	1.2	1.2	-2.1	-1.7	0.7	1.1
Housing starts (000s)*	207	191	239	240	306	280	274	255	239	224	208	207	209	217	279	219
Motor vehicle sales (mill., saar)*	1.58	1.14	1.89	1.80	1.82	1.70	1.75	1.88	1.89	1.91	1.93	1.95	1.98	1.59	1.79	1.92

*Period average Source: Statistics Canada, RBC Economics

Economic forecast detail — United States

Real growth in the economy
Quarter-over-quarter annualized % change unless otherwise indicated

		20	20			<u>20</u>	21			<u>20</u>	<u>22</u>					
	<u>Q1</u>	Q2	Q3	<u>Q4</u>	<u>Q1</u>	<u>Q2</u>	<u>Q3</u>	<u>Q4</u>	<u>Q1</u>	<u>Q2</u>	<u>Q3</u>	<u>Q4</u>	<u>2019</u>	<u>2020</u>	<u>2021F</u>	<u>2022F</u>
Consumer spending	-6.9	-33.4	41.4	3.4	11.4	11.9	3.5	2.4	2.3	2.2	1.9	2.5	2.2	-3.8	8.0	3.0
Durables	-12.0	-1.5	89.0	1.1	50.0	11.3	-6.2	-2.0	0.2	0.3	0.5	0.5	4.8	7.7	20.9	-0.3
Non-durables	7.0	-13.9	31.8	-1.1	15.9	13.7	5.6	1.5	0.8	0.9	0.8	0.5	2.9	3.1	9.6	2.2
Services	-10.0	-42.4	37.5	5.3	3.9	11.3	4.4	3.5	3.2	3.0	2.5	3.5	1.7	-7.5	5.3	3.8
Government spending	3.7	3.9	-2.1	-0.5	4.2	-1.9	2.5	2.0	6.0	6.0	7.0	5.0	2.2	2.5	1.0	4.4
Residential investment	20.3	-30.8	60.0	34.4	13.3	-11.5	-1.5	-1.0	-4.0	-6.5	-4.2	4.2	-0.9	6.8	9.9	-3.6
Non-residential investment	-8.1	-30.3	18.7	12.5	12.9	9.3	0.2	2.8	1.7	1.7	1.7	1.7	4.3	-5.3	7.2	2.2
Non-residential structures	-0.8	-46.8	-15.3	-8.2	5.4	-5.4	11.7	6.7	1.5	1.5	1.5	1.5	2.1	-12.5	-5.8	3.2
Equipment & software	-21.4	-36.2	55.9	26.5	14.1	11.6	-7.1	1.9	1.5	1.5	1.5	1.5	3.3	-8.3	12.2	1.1
Intellectual property	3.8	-10.6	8.0	10.2	15.6	14.6	2.5	2.0	2.0	2.0	2.0	2.0	7.2	2.8	9.1	2.8
Final domestic demand	-4.4	-27.3	29.9	5.0	10.4	7.9	2.7	2.3	2.7	2.5	2.6	2.9	2.4	-2.5	6.8	2.9
Exports	-16.3	-59.9	54.5	22.5	-2.9	6.6	7.0	4.0	5.5	7.5	2.0	2.5	-0.1	-13.6	4.9	5.2
Imports	-13.1	-53.1	89.2	31.3	9.3	6.7	6.4	6.4	4.8	4.0	2.5	1.2	1.1	-8.9	13.4	4.8
Inventories (change in \$b)	-30.4	-252.8	25.3	88.8	-88.3	-169.4	-60.0	65.0	105.0	115.0	135.0	100.0	75.2	-42.3	-63.2	113.8
Real gross domestic product	-5.1	-31.2	33.8	4.5	6.3	6.6	5.0	4.5	3.5	3.0	3.0	2.5	2.3	-3.4	5.8	3.8

Other indicators

Year-over-year % change unless otherwise indicated

Business and labour																
Productivity	1.1	2.5	3.8	2.5	3.9	2.0	0.2	1.5	0.8	0.5	1.2	1.1	1.9	2.5	1.9	0.9
Pre-tax corporate profits	-5.6	-18.6	2.3	0.9	17.6	43.4	17.9	20.5	16.4	8.2	6.3	5.5	2.7	-5.2	24.0	8.9
Unemployment rate (%)*	3.8	13.1	8.8	6.8	6.2	5.9	5.2	4.7	4.5	4.2	4.0	4.0	3.7	8.1	5.5	4.2
Inflation																
Headline CPI	2.1	0.4	1.2	1.2	1.9	4.8	5.0	4.1	3.3	1.8	1.4	2.2	1.8	1.2	4.0	2.2
CPI ex. food and energy	2.2	1.3	1.7	1.6	1.4	3.7	4.0	3.2	3.1	1.8	1.6	2.5	2.2	1.7	3.1	2.2
External trade																
Current account balance (\$b)*	-459	-615	-689	-700	-783	-776	-796	-816	-821	-811	-820	-819	-472	-616	-793	-818
% of GDP*	-2.1	-3.2	-3.3	-3.3	-3.6	-3.4	-3.4	-3.5	-3.4	-3.4	-3.4	-3.3	-2.2	-2.9	-3.5	-3.4
Housing starts (000s)*	1485	1086	1440	1575	1599	1586	1500	1450	1425	1400	1375	1350	1292	1397	1534	1388
Motor vehicle sales (millions, saar)*	15.0	11.3	15.4	16.2	16.8	16.9	14.5	15.5	16.5	16.7	16.8	17.0	17.0	14.5	15.9	16.7

^{*}Period average

Source: Bureau of Economic Analysis, RBC Economics

Financial market forecast detail

Interest rates—North America

%, end of period

	20Q1	20Q2	20Q3	20Q4	21Q1	21Q2	21Q3	21Q4	22Q1	22Q2	22Q3	22Q4	2019	2020F	2021F	2022F
Canada																
Overnight	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.50	0.75	1.75	0.25	0.25	0.75
Three-month	0.21	0.20	0.12	0.06	0.09	0.15	0.20	0.20	0.25	0.30	0.55	0.80	1.66	0.06	0.20	0.80
Two-year	0.42	0.29	0.25	0.20	0.23	0.45	0.35	0.45	0.70	0.85	1.05	1.20	1.70	0.20	0.45	1.20
Five-year	0.59	0.37	0.36	0.39	0.99	0.98	0.90	1.10	1.35	1.45	1.55	1.65	1.69	0.39	1.10	1.65
10-year	0.70	0.53	0.57	0.68	1.56	1.39	1.30	1.60	1.80	1.90	1.95	2.00	1.70	0.68	1.60	2.00
30-year	1.31	0.99	1.11	1.21	1.99	1.84	1.90	2.10	2.20	2.25	2.30	2.30	1.76	1.21	2.10	2.30
Yield curve (10s-2s)	28	24	32	48	133	94	95	115	110	105	90	80	0	48	115	80
United States																
• • • • • • • • • • • • • • • • • • • •	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.30	4.63	0.43	0.43	0.20
Fed funds*	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.38	1.63	0.13	0.13	0.38
Three-month	0.11	0.16	0.10	0.09	0.03	0.05	0.01	0.05	0.05	0.10	0.25	0.60	1.55	0.09	0.05	0.60
Two-year	0.23	0.16	0.13	0.13	0.16	0.25	0.30	0.45	0.60	0.80	1.00	1.20	1.58	0.13	0.45	1.20
Five-year	0.37	0.29	0.28	0.36	0.92	0.87	0.95	1.20	1.30	1.45	1.60	1.80	1.69	0.36	1.20	1.80
10-year	0.70	0.66	0.69	0.93	1.74	1.45	1.55	1.75	1.85	2.00	2.10	2.20	1.92	0.93	1.75	2.20
30-year	1.35	1.41	1.46	1.65	2.41	2.06	2.15	2.30	2.40	2.50	2.55	2.55	2.39	1.65	2.30	2.55
Yield curve (10s-2s)	47	50	56	80	158	120	125	130	125	120	110	100	34	80	130	100
Yield spreads																
Three-month T-bills	0.10	0.04	0.02	-0.03	0.06	0.10	0.19	0.15	0.20	0.20	0.30	0.20	0.11	-0.03	0.15	0.20
Two-year	0.19	0.13	0.12	0.07	0.07	0.20	0.05	0.00	0.10	0.05	0.05	0.00	0.12	0.07	0.00	0.00
Five-year	0.22	0.08	0.08	0.03	0.07	0.11	-0.05	-0.10	0.05	0.00	-0.05	-0.15	0.00	0.03	-0.10	-0.15
10-year	0.00	-0.13	-0.12	-0.25	-0.18	-0.06	-0.25	-0.15	-0.05	-0.10	-0.15	-0.20	-0.22	-0.25	-0.15	-0.20
30-year	-0.04	-0.42	-0.35	-0.44	-0.42	-0.22	-0.25	-0.20	-0.20	-0.25	-0.25	-0.25	-0.63	-0.44	-0.20	-0.25
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Note: Interest Rates are end of period rates. * Midpoint of 25 basis point range

Interest rates—International

%, end of period

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	<u>20Q1</u>	20Q2	20Q3	<u>20Q4</u>	<u>21Q1</u>	<u>21Q2</u>	<u>21Q3</u>	<u>21Q4</u>	<u>22Q1</u>	<u>22Q2</u>	<u>22Q3</u>	<u>22Q4</u>	<u>2019</u>	<u>2020</u>	<u>2021F</u>	<u>2022F</u>
United Kingdom																
Repo	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.25	0.25	0.50	0.75	0.10	0.10	0.50
Two-year	0.13	-0.08	-0.02	-0.16	0.11	0.07	0.10	0.10	0.15	0.25	0.35	0.50	0.54	-0.16	0.10	0.50
Five-year	0.20	-0.06	-0.06	-0.08	0.40	0.33	0.35	0.45	0.50	0.65	0.75	0.85	0.61	-0.08	0.45	0.85
10-year	0.34	0.17	0.23	0.20	0.85	0.72	0.75	0.85	1.00	1.15	1.20	1.35	0.83	0.20	0.85	1.35
30-year	0.82	0.64	0.78	0.76	1.40	1.24	1.20	1.35	1.65	1.75	1.80	1.90	1.33	0.76	1.35	1.90
Euro Area																
Deposit rate	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
Two-year	-0.69	-0.69	-0.70	-0.71	-0.69	-0.67	-0.60	-0.60	-0.60	-0.60	-0.55	-0.50	-0.59	-0.71	-0.60	-0.50
Five-year	-0.65	-0.70	-0.71	-0.74	-0.62	-0.59	-0.55	-0.50	-0.50	-0.45	-0.40	-0.30	-0.46	-0.74	-0.50	-0.30
10-year	-0.48	-0.45	-0.53	-0.58	-0.29	-0.20	-0.20	-0.15	-0.05	0.05	0.15	0.20	-0.19	-0.58	-0.15	0.20
30-year	0.03	0.01	-0.09	-0.17	0.26	0.30	0.45	0.55	0.65	0.75	0.80	0.85	0.35	-0.17	0.55	0.85
Australia																
Cash target rate	0.25	0.25	0.25	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.75	0.10	0.10	0.10
Two-year	0.24	0.25	0.16	0.08	0.08	0.06	0.10	0.10	0.10	0.10	0.40	0.50	0.92	0.08	0.10	0.50
10-year	0.77	0.87	0.84	0.97	1.74	1.49	1.50	1.65	1.85	2.00	2.15	2.30	1.37	0.97	1.65	2.30
New Zealand																
Cash target rate	0.25	0.25	0.25	0.25	0.25	0.25	0.25						1.00	0.25		
Two-year	0.52	0.19	0.05	0.27	0.46	0.78	0.78 Forecasts under review							0.27		
10-year	0.92	0.72	0.50	0.97	1.95	1.87								0.97		
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Outlook

Growth outlook

% change, quarter-over-quarter in real GDP

	20Q1	20Q2	20Q3	20Q4	21Q1	21Q2	<u>21Q3</u>	<u>21Q4</u>	22Q1	22Q2	22Q3	22Q4	<u>2019</u>	<u>2020</u>	2021F	<u>2022F</u>
Canada*	-7.9	-38.0	41.7	9.3	5.5	-1.1	4.5	6.0	4.0	5.0	4.5	2.5	1.9	-5.3	5.1	4.3
United States*	-5.1	-31.2	33.8	4.5	6.3	6.6	5.0	4.5	3.5	3.0	3.0	2.5	2.3	-3.4	5.8	3.8
United Kingdom	-2.8	-19.5	16.9	1.3	-1.6	4.8	2.7	1.9	0.7	0.4	0.4	0.4	1.4	-9.8	7.1	5.3
Euro Area	-3.5	-11.7	12.6	-0.4	-0.3	2.2	1.9	1.2	0.6	0.4	0.4	0.4	1.5	-6.5	5.1	3.6
Australia	-0.3	-7.0	3.6	3.2	1.9	0.7	-3.4	1.8	2.1	1.5	1.0	0.6	1.9	-2.4	3.4	3.7

^{*}Seasonally adjusted annualized rates

Inflation outlook

% change, year-over-year

	<u>20Q1</u>	20Q2	20Q3	20Q4	<u>21Q1</u>	<u>21Q2</u>	<u>21Q3</u>	<u>21Q4</u>	<u>22Q1</u>	22Q2	22Q3	<u>22Q4</u>	<u>2019</u>	<u>2020</u>	2021F	<u>2022F</u>
Canada	1.8	0.0	0.3	8.0	1.4	3.3	4.0	3.9	3.2	2.5	2.1	2.3	1.9	0.7	3.2	2.5
United States	2.1	0.4	1.2	1.2	1.9	4.8	5.0	4.1	3.3	1.8	1.4	2.2	1.8	1.2	4.0	2.2
United Kingdom	1.7	0.7	0.6	0.6	0.6	2.0	1.9	2.3	2.0	1.8	1.8	1.8	1.8	0.9	1.7	1.9
Euro Area	1.1	0.2	0.0	-0.3	1.1	1.8	2.3	2.7	2.0	1.5	1.2	1.4	1.2	0.3	2.0	1.5
Australia	2.2	-0.3	0.7	0.9	1.1	3.8	3.0	2.7	2.6	2.3	2.2	2.2	1.6	8.0	2.6	2.4

Exchange rates

End of period

	<u>20Q1</u>	<u>20Q2</u>	<u>20Q3</u>	<u>20Q4</u>	<u>21Q1</u>	<u>21Q2</u>	<u>21Q3</u>	<u>21Q4</u>	<u>22Q1</u>	<u>22Q2</u>	<u>22Q3</u>	<u>22Q4</u>	<u>2019</u>	<u>2020</u>	<u>2021F</u>	<u>2022F</u>
AUD/USD	0.61	0.69	0.72	0.77	0.76	0.75	0.75	0.74	0.74	0.73	0.73	0.73	0.70	0.77	0.74	0.73
USD/CAD	1.41	1.36	1.33	1.27	1.26	1.24	1.24	1.25	1.26	1.27	1.27	1.27	1.30	1.27	1.25	1.27
EUR/USD	1.10	1.12	1.17	1.22	1.17	1.19	1.17	1.14	1.13	1.12	1.13	1.14	1.12	1.22	1.14	1.14
USD/JPY	107.5	107.9	105.5	103.3	110.7	111.1	107.0	105.0	107.0	108.0	110.0	112.0	108.6	103.3	105.0	112.00
USD/CHF	0.96	0.95	0.92	0.89	0.94	0.93	0.93	0.95	0.96	0.98	0.98	0.98	0.97	0.89	0.95	0.98
GBP/USD	1.24	1.24	1.29	1.37	1.38	1.38	1.36	1.30	1.26	1.22	1.23	1.23	1.33	1.37	1.30	1.23

Note: Exchange rates are expressed in units per USD, with the exception of the euro, GBP and AUD which are expressed in USD per local currency unit.

Source: Reuters, RBC Economics forecasts