

# **Fixed Income Insights**

MONTHLY REPORT - MAY 2024 | CANADA EDITION

FOR PROFESSIONAL INVESTORS ONLY

### Canadian longs readjust to higher rates, for even longer

The strength of US final sales and inflation surprised markets in April, pushing US yields higher, led by longs, pressuring Canadian yields, as investors revised rate expectations higher and rates remain on hold. The Canadian PMI also showed green shoots of recovery. HY credit gains show close correlation to risk assets, though with a modest April reversal.

#### Macro and policy backdrop - Resilient US growth diverges with the rest of the world, but for how long?

The US shows itself as an outlier, with IMF real growth forecasts for 2024 significantly upgraded in April, unlike other economies, where revisions were modest, and mostly lower. (page 2)

#### Canadian govts - Canadian yield curve disinverted on higher rates for longer narrative

The Canadian yield curve disinverted further in April as the negative carry weighed on longs. (page 3)

#### Canadian credit - Canadian HY spreads narrowed a little in April after govt yields backed up

Canadian high yield spreads have continued to tighten since January, but more modestly so in April, after tracking the lacklustre equity performance and government bond yields rose. (pages 4-5)

# Global yields and spreads – Real yields were led higher by US Tips in April, as real US growth remained buoyant

G7 real yields have moved higher, as markets adjusted rate expectations to receding prospects of early easing. (pages 6)

#### Sovereign and climate bonds - PAB continues to underperform Choice and ex fossil fuels indices

Performance variation has largely been driven by duration, and bank weights, as yields have continued to rise. (page 7)

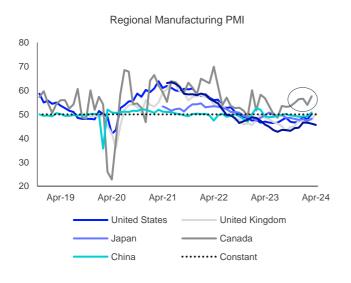
Performance – Canadian high yield gains since January reflects low duration while long govts adjust to higher rates Canadian credit held up better than govt bonds in April, but lost some ground, as the risk rally reversed. (pages 8-10)

#### Appendix (from page 11)

Canadian & Global bond market returns, historical bond yields, durations and market values and foreign exchange returns.

Chart 1: Canada's manufacturing PMI has picked up since January, on improved business optimism compared to 2023, supported by better economic conditions and robust, even if slowing, US growth.

Chart 2: A turning point? Canadian goods inflation fell in March, though the decline appears to be slowing down, contrasting services inflation, which, while higher, also appears to be stabilising.





Source: FTSE Russell and LSEG. Latest data available as of April 30, 2024. Past performance is no guarantee of future results. This report should not be considered 'research' for the purposes of MIFID II. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix for list of indices used for each market.

# Macroeconomic Backdrop - Growth and Inflation Expectations

G7 central banks paused policy again in April, highlighting the need for "sustainable" inflation at target levels as the reason for their decisions. The IMF upgraded US real growth forecasts for 2024 in April, unlike the rest of G7 economies, rekindling uncertainty over the timing of US rate cuts. Canadian wage growth rose in April, despite higher unemployment, as did manufacturing PMI on improving business sentiment, but lower Canadian inflation makes a Q3 rate cut plausible, with real economic growth still much weaker than the US.

The IMF revised upward its growth estimate for the US in April, compared to January, highlighting the strength of consumer spending and fiscal stimulus, relative to other G7 economies. Other G7 growth forecasts were revised marginally lower (Chart 1), including Canada.

Canada is unique versus other G7 economies in that its core inflation of 2.0% y/y in March, is significantly lower than its nominal inflation of 2.9% y/y (Chart 2), and actually at target levels of 2%. Reflected in the core CPI is the easing of food and oil prices, while the above-target headline CPI highlights the continued challenge posed by Canada's high rental and service sector inflation. Chart 2 also shows disinflation flat-lined in most regions in March data, except in the US, where resilient shelter inflation contributed in part to the recent 3.5% y/y inflation uptick.

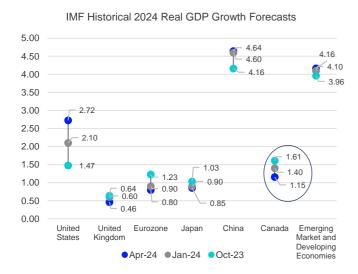
Robust wage growth of 4.5% y/y, shown in Chart 3, has continued to drive services inflation (see Chart 2 on the cover) and rental costs higher. Even if Canadian unemployment rose a little in March, the 6.1% rate is in line with pre-Covid levels, suggesting the job market remains resilient. As in the US, the employment participation rate of 65.3%, has not accelerated significantly and reflects the ageing labour force.

The US Fed noted the rise in US inflation and continued robust data, at the May FOMC meeting, in explaining the policy pause (Chart 4). Other G7 central banks have echoed the need for inflation to be sustained at, or below 2% targets, before easing, with the recent strength of the US dollar, and its potential impact in raising inflation, a concern. Meanwhile, sluggish Canadian growth and low inflation make a rate cut plausible in Q3.

Canadian manufacturing PMI stands out, after rising in April (see Chart 1 on the cover), as sentiment on economic activity improved, reaffirming the soft-landing narrative for the economy.

Chart 1: The US shows itself as an outlier, with real IMF growth forecasts for 2024 significantly upgraded in April, unlike other economies, where revisions were modest, and mostly lower.

Chart 2: Most G7 inflation barely moved in March, though US inflation surprised on the upside. High housing costs in the US and Canada remain a problem and a big driver of higher inflation.



Regional Inflation (Y/Y %) 12 10 8 6 2 0 -2 Mar-19 Mar-20 Mar-21 Mar-22 Mar-23 Mar-24 United States United Kinadom Eurozone

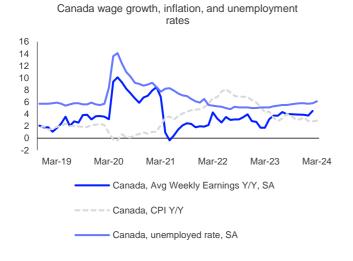
Chart 3: Canada's wage growth remained robust, and even increased a little in March, despite unemployment also increasing a little, but only to pre-Covid levels.

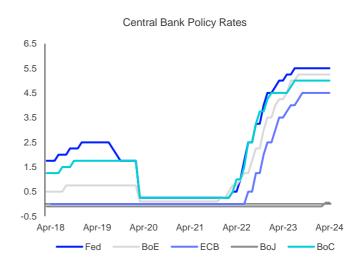
Chart 4: G7 central banks retained policy pauses in April, with rate cuts not expected before 2H 2024. The US is an outlier, where the market is now raising the real possibility of no cuts at all in 2024.

Canada

Japan

China





### **Canadian Governments, Provinces and Municipalities**

Chart 1: The Canadian curve disinverted further in April, after the long end steepened when the BoC paused policy again, with rates now expected to stay at 5% until Q3.



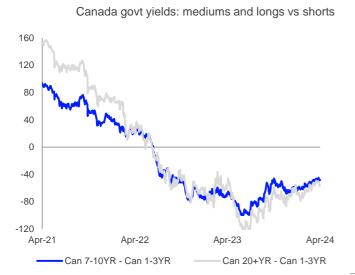


Chart 3: Long conventional yields backed up in April, unwinding much of the steep decline of Q4 2023, with real yields tracking conventional yields higher after inflation ticked up a little.

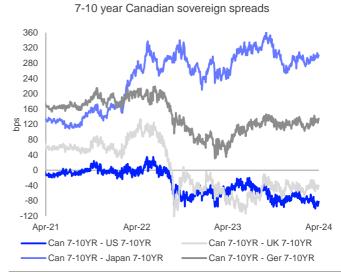


Chart 4: G7 inflation breakevens rose further in April, repeating the pro-cyclical pattern of breakevens rising and falling with nominal yields (e.g., they fell in the Q4 rally as nominal yields fell faster).

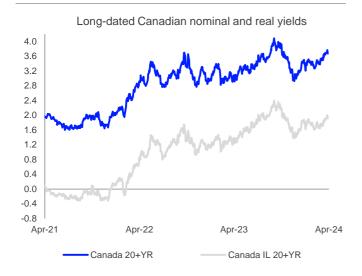


Chart 5: Alberta spreads reversed course and widened in April, following other provincial spreads higher, after the market readjusted to no imminent cuts and rates staying higher for longer.

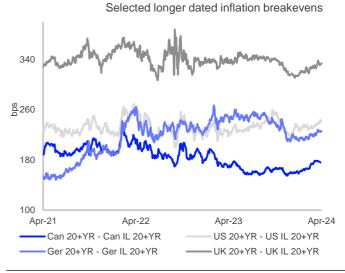
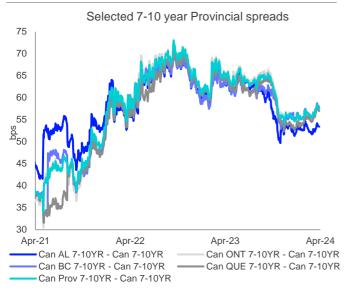
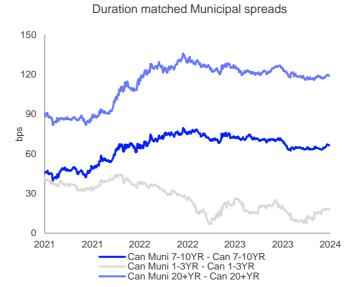


Chart 6: Short Canadian municipal spreads were wider in April, after the BoC maintained policy unchanged and rates stay higher for longer, while longer equivalents only rose a little after govt yields backed up.





### **Canadian Investment Grade Credit Analysis**

Chart 1: Canadian corporate bond spreads have declined across the whole of the quality spectrum since January, as government bond yields backed up, with AAA spreads still a lot higher than pre-covid levels.

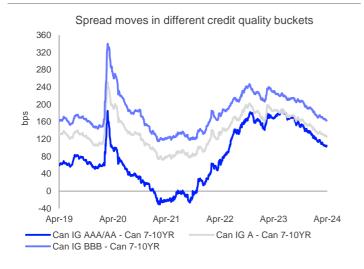


Chart 3: Infrastructure and industrial spreads, and real estate and energy spreads, have converged to around 135bp & 160bp respectively in April, while financial spreads tightened the most since 2021.





Chart 4: Financials have seen the biggest change in weighting over the last year, with a drop of over 1%, while energy has grown by about 0.9%, with the former making up 39% of the universe.

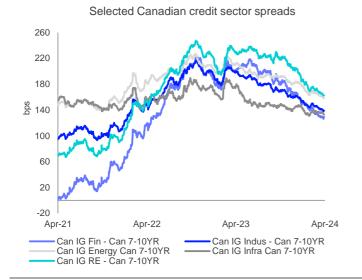
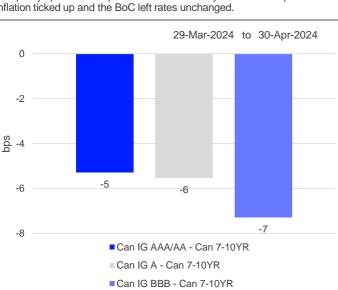


Chart 5: Canadian corporate bond spreads tightened modestly across the quality spectrum in April. Government bond yields backed up after inflation ticked up and the BoC left rates unchanged.



Canadian IG corporate industry weight change over 12M

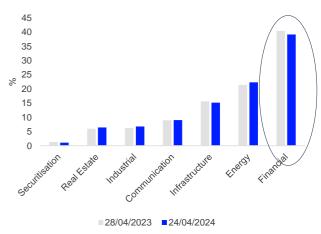
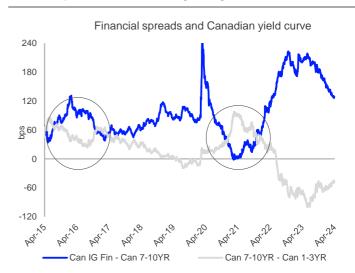


Chart 6: Financial spreads fell, helped by the govt curve disinverting, and higher for longer rates. Although the curve remains deeply inverted, relative spreads could fall further, given higher net interest income.



Source: FTSE Russell. All data as of April 22 (Charts 3 and 4) and April 30, 2024 elsewhere. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income

# **Canadian High Yield Credit Analysis**

Chart 1: US HY credit yields rebounded more than Canadian HY credit, showing strong correlation to the risk rally reversal in equities IG yields also backed up, due to the correlation with higher govt yields.

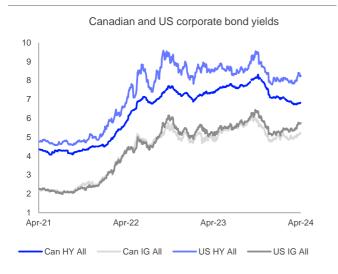


Chart 3: HY Canadian credit duration has fallen marginally in all sectors in April, with financials & communications settling at 2.9 and 3.3 years respectively, and contributing the most to the fall in overall duration.

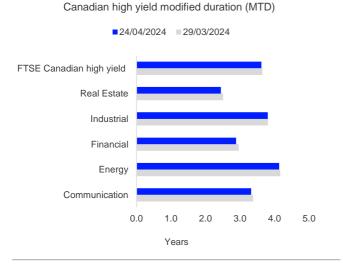


Chart 5: Canadian real estate yields have fallen the most in April, compared to the back-up by HY financial and energy yields, reflecting the economic slowdown and pressures on housing rentals.

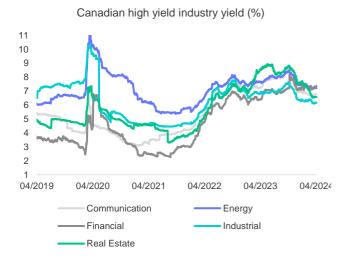


Chart 2: Both Canadian and US HY spreads have continued to tighten since January, with April's more modest moves tracking the lacklustre equity performance.

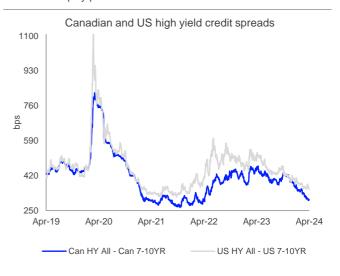


Chart 4: Since 2019, financial duration has barely changed, with the biggest move observed in industrials, which has lost nearly one year, with a duration of 3.8 yrs, while real estate has the lowest at 2.5 yrs.

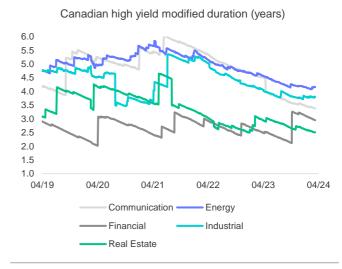
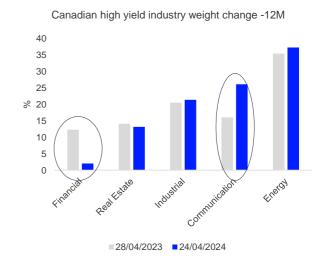


Chart 6: Financials saw the biggest decline in weightings over the last twelve months and communication the largest increase, with the energy weight still making up just under 40% of the universe.



# Global Yields, Curves and Spread Analysis

Chart 1: 7-10 year yields generally backed up further in April, led by the US, after the inflation uptick in March. Better Eurozone inflation numbers restricted the rise in Bund yields. JGB yields edged higher.

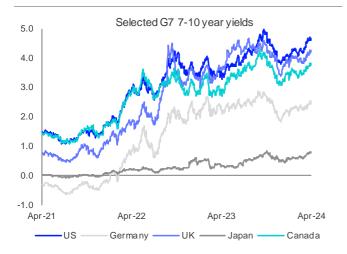


Chart 3: Yield curves disinverted further as longer dated yields backed up in April, though remained negative. The JGB curve reacted modestly to the end of curve control, but the 10s/2s yield curve did steepen a little.

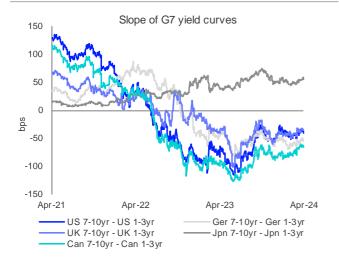


Chart 5: Inflation breakevens were driven higher in April. This was the pattern for most of the G7 and the BoJ will welcome the new cycle high in Japanese breakevens, as it seeks to reflate the economy.

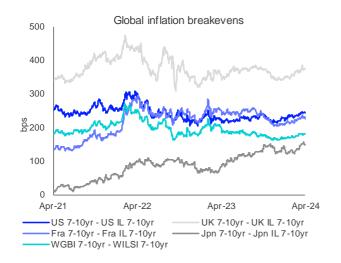


Chart 2: Real yields were led higher by US Tips in April, as real US growth remained buoyant. Real yields elsewhere moved higher, as markets adjusted rate expectations to receding prospects of early easing.

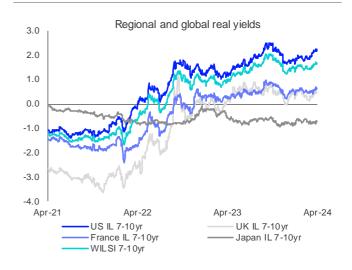


Chart 4: Long end yields backed up further, as the "higher for longer" narrative dominated most govt bond markets. However, better German inflation data restricted the disinversion of the long Bund curve.

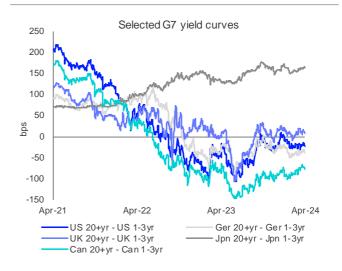


Chart 6: Global inflation breakevens have remained stable at around 2%, after inflation stalled or fell a little, except in the US. Short-dated breakevens remain most sensitive to spot inflation rates.



### SI Corporate Bond Analysis

Chart 1: SI corporate returns were all negative over 3 months, with PAB (Paris aligned benchmark) weakest, losing near 2%. However, returns for the indices remain positive over 1-year and 5-year periods.

Selected SI Corporate Returns (TR, USD Hedged) 7.0% 6.0% 5.0% 4.0% 3.0% 2.0% 1.0% 0.0% -1.0% -2.0% -3.0% PABCorp ChoiceCorp ■ExFFE Corp ■WorldBIGCorp

Chart 3: Also contributing to the divergence in performance was the PAB underweight in Banks - a strong performer over 12M, following the US banking crisis in 2023, and helped by higher rates.

Selected SI Corporate Active Weights vs.

#### WorldBIG Corp Bank Energy Service Manufacturing Electric Telecom Financials - Other Consumer Insurance Gas -10% -5% 5% 10% ■PABCorp ■ChoiceCorp ■ExFFECorp

Chart 5: Spread tightening in recent months has occurred despite yields at high levels. Dislocation between spreads and yields suggests spread tightening has driven a large share of recent performance.

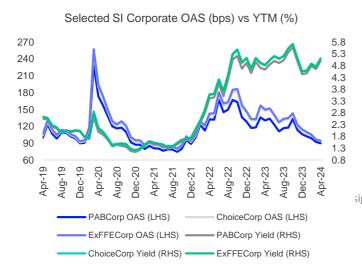


Chart 2: On a relative basis, PAB has underperformed WorldBIG Corp post-Covid, while Ex FFE and Choice outperformed. Performance variation has largely been driven by duration as yields have continued to rise.

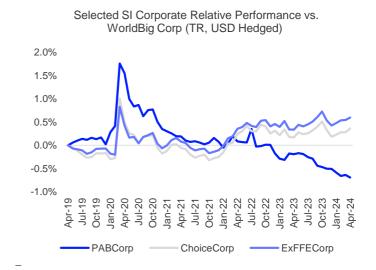


Chart 4: SI Indices have a lower BBB exposure vs WorldBIG in favour of AAAs and AAs. PAB shows the highest credit quality, resulting in an underperformance, as lower grade credit has outperformed.

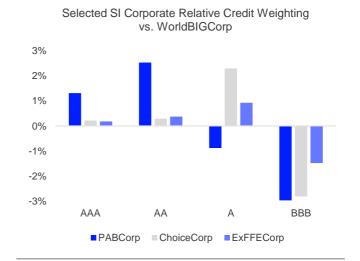
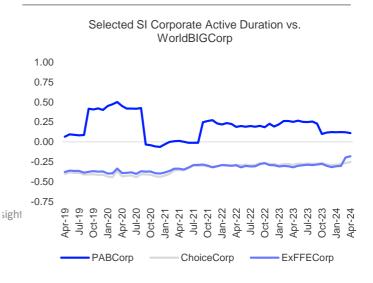


Chart 6: Active duration for PAB has been mostly positive in the past 5 years, despite some volatility. In contrast, Choice and ExFFE show low vol and consistently negative active duration versus WorldBig Corp.

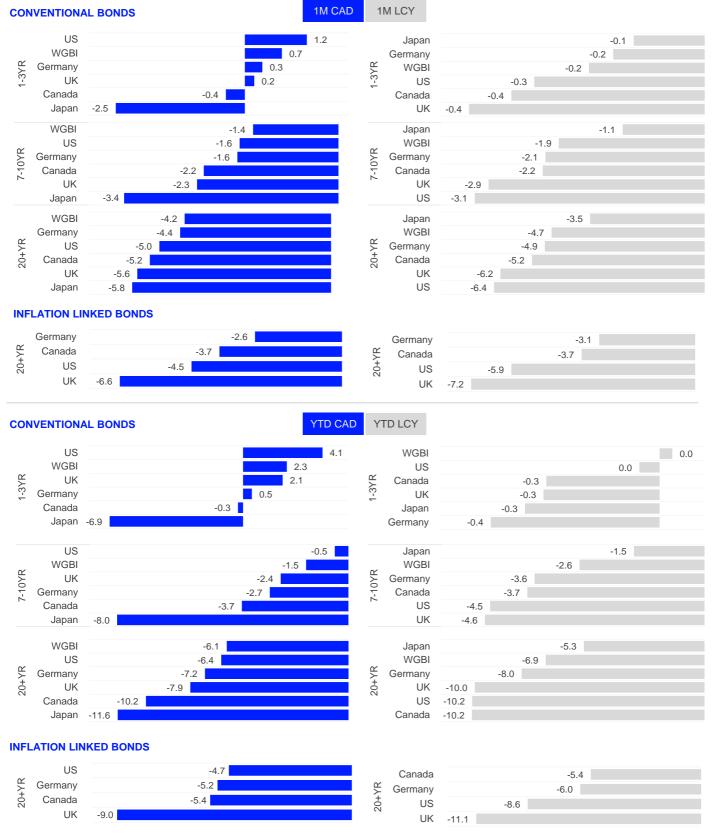


### Global Bond Market Returns - 1M & YTD % (CAD, LC, TR)

Both conventional and real return bonds fell back in April, led by longer maturities and JGBs in Canadian dollar terms. The "higher for longer" narrative still predominates, and negative carry has become more of a factor. Currency weakness depressed JGB returns, and long gilts suffered from extra duration, but long Canadian govt bonds and Treasuries also lost 5% in April. YTD returns show a similar profile.

Short US Treasuries and Bunds escaped further losses in April, with modest positive returns, while Canadian shorts were marginally negative. JGBs again underperformed, due to the weak yen, with losses of 3-6% across the curve in Canadian dollars.

YTD returns pick up more severe yen weakness, with JGBs losing 7-12% in Canadian dollars. But duration also took its toll on long gilts and Canadian government bonds, down 8-10%. Long Canadian real return bonds fell both in April (-4%) and over 12M (-5%) but were less negative than long conventional returns during the same period.

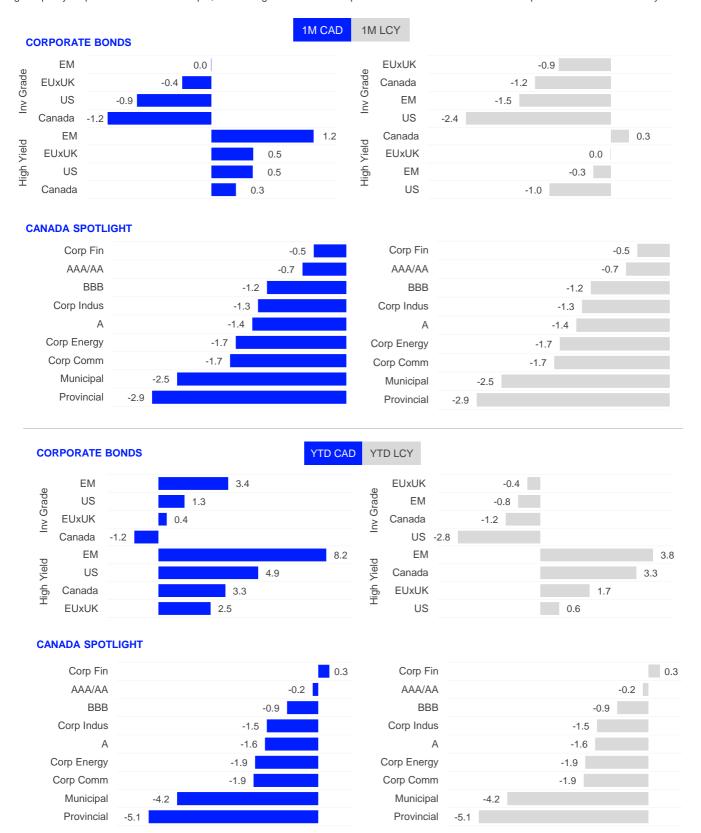


### Canadian and Corporate Bond Returns – 1M & YTD % (CAD, LC, TR)

Credit held up better than government bonds in April but still lost some ground, as the risk rally reversed. High yield outperformed investment grade equivalents, with the latter impacted by the back-up in yields after rate cut expectations receded. A return of risk aversion meant that both munis and provis tracked government bonds lower in April, extending year to date losses.

Credit markets reflected weakness in equities in April, as the risk rally faltered, with high yield credit outperforming investment grade, but only modestly. EM credit outperformed, gaining 1.2% in Canadian dollars, with currency strength improving returns, while returns for Canadian HY credit was flat. YTD, HY returns remain positive.

Higher quality corporates fared better in April, after losing about 1%. Municipals and Provincials lost about 3% in April and 4-5% since January.



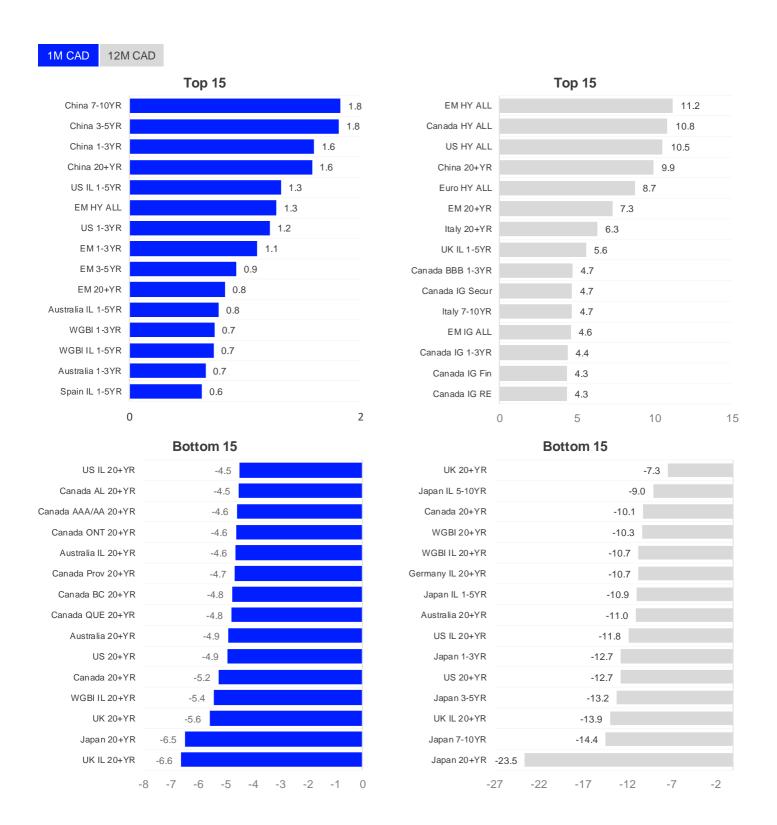
Indices used: FTSE Canada Corporate Bond Index (AAA/AA, A, BBB, Financial, Communication, Industrial, Energy, Overall), FTSE Canada High Yield Bond Index, FTSE Canada Provincial Bond Source: FTSE Russell. All data as of April 30, 2024. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of indices used for each market. For professional investors only.

### Top and Bottom Bond Returns - 1M & 12M % (CAD, TR)

The back-up in yields in April affected most longer duration bonds, which returned into the bottom 15 of the performance table after a period of outperformance, notably in Q4, 2023. China, EM and short duration bonds showed their resilience, with marginal gains. Over 12 months, high yield credits dominate, including Canadian high yields, up 11% on 12M, as do Italian government bonds and long Chinese debt.

Duration again proved the investor's foe in April, apart from longer China and EM bonds, which escaped largely unscathed. The bottom 15 performers on 1M were all long dated bonds. Yen weakness put JBGs at the bottom of the performance table both in April and over 12M, with losses of up to 24% for JGB with long maturities.

High yield credits, Canadian corporates, especially short BBBs, featured in the top 15 rank over 12M, with returns of 4-11%.



# Appendix - Canadian Bond Market Returns % (CAD vs USD, TR) - Apr 30, 2024

#### Government and corporate bond returns

Top 15% Bottom 15%

Green highlight indicates highest 15%, red indicates lowest 15%.

		3	М	6	М	Y	TD	12	M
		Local	USD	Local	USD	Local	USD	Local	USD
Government	1-3YR	-0.02	-2.77	2.39	3.46	-0.26	-4.27	1.75	0.45
	7-10YR	-2.29	-4.98	3.71	4.80	-3.70	-7.58	-3.60	-4.84
	20+YR	-5.93	-8.52	4.78	5.88	-10.16	-13.78	-10.14	-11.29
Inflation-Linked	20+YR	-2.46	-5.14	#DIV/0!	#DIV/0!	-5.44	-9.24	-4.37	-5.59
Corporate	1-3YR	0.49	-2.27	4.57	5.66	0.54	-3.51	4.40	3.07
•	7-10YR	-0.66	-3.39	6.98	8.10	-1.17	-5.15	2.46	1.15
	20+YR	-2.72	-5.40	8.33	9.46	-5.02	-8.84	-0.58	-1.85
AAA/AA	1-3YR	0.37	-2.39	4.33	5.42	0.32	-3.71	3.95	2.62
	7-10YR	-0.67	-3.40	6.37	7.48	-0.97	-4.96	1.98	0.67
	20+YR	-4.68	-7.30	8.25	9.38	-7.96	-11.66	-3.45	-4.68
	All	0.07	-2.69	4.69	5.78	-0.17	-4.18	3.71	2.38
Α	1-3YR	0.46	-2.30	4.41	5.50	0.51	-3.54	4.28	2.95
	7-10YR	-0.96	-3.69	6.18	7.29	-1.62	-5.57	1.50	0.21
	20+YR	-3.11	-5.78	7.57	8.69	-5.59	-9.39	-1.72	-2.98
	All	-0.76	-3.49	5.53	6.63	-1.59	-5.54	2.15	0.84
BBB	1-3YR	0.57	-2.19	4.86	5.96	0.65	-3.40	4.72	3.39
	7-10YR	-0.52	-3.25	7.40	8.53	-0.97	-4.96	2.96	1.65
	20+YR	-2.11	-4.80	9.40	10.54	-4.10	-7.96	1.10	-0.19
	All	-0.34	-3.08	6.61	7.73	-0.93	-4.91	3.32	2.00
Sectors	Comm	-1.11	-3.83	7.00	8.12	-1.93	-5.87	2.23	0.92
Jector 3	Energy	-0.76	-3.49	7.12	8.25	-1.88	-5.83	2.05	0.75
	Fin	0.35	-2.41	4.91	6.01	0.34	-3.70	4.35	3.02
	Indus	-0.75	-3.48	5.70	6.81	-1.54	-5.49	2.38	1.07
	Infra	-2.24	-4.93	6.55	7.66	-4.08	-7.93	-0.55	-1.82
	RE	0.26	-2.50	5.79	6.90	0.37	-3.66	4.35	3.01
	Secur	0.72	-2.06	4.41	5.50	0.97	-3.09	4.69	3.36
Provinces (All)	1-3YR	-0.08	-2.83	2.84	3.92	-0.39	-4.40	1.88	0.58
Provinces (All)	7-10YR	-1.94	-4.64	4.39	5.48	-3.17	-7.06	-1.45	-2.71
	20+YR	-5.23	-7.84	5.60	6.71	-8.44	-12.12	-6.14	-7.34
	All	-3.07	-5.74	4.60	5.70	-5.06	-8.88	-2.93	-4.17
Ontorio	1-3YR	-0.05	-2.80	2.83	3.91	-0.33	-4.34	1.91	0.61
Ontario	7-10YR	-1.90	-4.60	4.42	5.51	-3.10	-7.00	-1.46	-2.71
	20+YR	-5.08	-7.70	5.79	6.90	-8.26	-11.95	-6.03	-7.23
	All	-2.87	-5.54	4.55	5.65	-4.75	-8.58	-2.64	-3.88
Alberta	1-3YR	-0.06	-2.81	2.68	3.75	-0.38	-4.39	1.76	0.46
Alberta	7-10YR	-1.83	-4.53	4.17	5.26	-3.05	-6.95	-1.17	-2.44
	20+YR	-4.94	-7.56	5.94	7.05	-8.50	-12.18	-6.26	-7.46
	All	-2.64	-5.32	4.71	5.81	-4.63	-8.46		-3.83
Quahaa	1-3YR	-2.04	-2.92	2.96	4.04	-4.63	-4.56	-2.58 1.90	0.59
Quebec	7-10YR	-0.16	-2.92 -4.74	4.50	5.60	-3.33	-7.22	-1.56	-2.82
	7-101 K 20+YR				6.32			-6.35	-7.55
	All	-5.52	-8.12	5.21		-8.78 -5.67	-12.44		
		-3.49	-6.14	4.60	5.69	-5.67	-9.46	-3.45	-4.68
BC	1-3YR	0.05	-2.71	2.46	3.54	-0.23	-4.24	1.84	0.54
	7-10YR	-1.97	-4.67	4.17	5.26	-3.19	-7.09	-1.54	-2.80
	20+YR	-5.60	-8.20	5.56	6.66	-8.73	-12.40	-6.53	-7.72
	All	-3.39	-6.05	4.63	5.72	-5.38	-9.18	-3.37	-4.61

Indices used: FTSE Canada Non-Agency Bond Index (Short, Mid, Long), FTSE Canada RRB Canada Index, FTSE Canada Corporate Bond Index (Short, Mid, Long, AAA/AA, A, BBB), FTSE Canada Provincial Bond Index, FTSE Canada High Yield Bond Index.

# Appendix - Global Bond Market Returns % (CAD vs LC, TR) - Apr 30, 2024

#### **Government bond returns**

Top 15% Bottom 15%

Green highlight indicates highest 15%, red indicates lowest 15%.

		1	М	3	М	Υ	TD	1:	2 <b>M</b>
		Local	CAD	Local	CAD	Local	CAD	Local	CAD
US	1-3YR	-0.32	1.19	-0.41	2.41	-0.05	4.14	2.38	3.70
	7-10YR	-3.06	-1.58	-4.36	-1.66	-4.48	-0.48	-5.30	-4.07
	20+YR	-6.40	-4.97	-7.64	-5.03	-10.15	-6.39	-13.82	-12.70
	IG All	-2.38	-0.89	-2.79	-0.04	-2.80	1.27	1.13	2.44
	HY All	-1.01	0.50	0.61	3.46	0.64	4.86	9.12	10.53
UK	1-3YR	-0.45	0.18	-0.12	0.98	-0.26	2.07	2.89	3.83
	7-10YR	-2.87	-2.26	-2.84	-1.76	-4.59	-2.36	-0.50	0.41
	20+YR	-6.20	-5.61	-4.78	-3.72	-10.04	-7.94	-8.16	-7.32
EUR	IG All	-0.86	-0.35	-0.56	0.66	-0.44	0.41	5.17	3.18
	HY All	-0.01	0.50	0.74	1.97	1.67	2.54	10.83	8.73
Japan	1-3YR	-0.13	-2.49	-0.26	-4.73	-0.31	-6.94	-0.40	-12.70
	7-10YR	-1.09	-3.42	-0.99	-5.43	-1.48	-8.04	-2.35	-14.41
	20+YR	-3.48	-5.76	-2.52	-6.89	-5.28	-11.58	-12.76	-23.53
China	1-3YR	0.23	1.56	0.87	2.84	1.26	3.33	3.13	-0.05
	7-10YR	0.43	1.76	1.47	3.45	2.58	4.67	6.12	2.85
	20+YR	0.31	1.64	2.10	4.09	6.00	8.17	13.45	9.95
EM	1-3YR	0.11	1.07	0.76	2.39	1.23	2.71	4.13	1.51
	7-10YR	-0.67	0.12	-0.15	1.45	0.45	1.80	4.86	1.98
	20+YR	-0.26	0.86	0.91	2.83	3.69	5.54	9.94	7.29
	IG All	-1.50	0.00	-0.79	2.02	-0.76	3.40	3.27	4.60
	HY All	-0.29	1.23	2.29	5.18	3.83	8.18	9.75	11.17
Germany	1-3YR	-0.17	0.34	-0.38	0.84	-0.38	0.46	1.73	-0.20
	7-10YR	-2.12	-1.62	-3.03	-1.85	-3.56	-2.73	0.32	-1.58
	20+YR	-4.86	-4.37	-5.55	-4.40	-7.99	-7.21	-3.87	-5.69
Italy	1-3YR	-0.14	0.37	-0.21	1.01	-0.01	0.84	3.12	1.16
	7-10YR	-1.31	-0.81	-0.53	0.68	-0.31	0.54	6.70	4.68
	20+YR	-2.63	-2.13	0.57	1.80	0.28	1.14	8.38	6.33
Spain	1-3YR	-0.11	0.40	-0.15	1.07	0.01	0.86	2.48	0.54
	7-10YR	-1.27	-0.76	-1.13	0.08	-1.49	-0.65	3.92	1.95
	20+YR	-2.69	-2.19	-0.83	0.38	-2.59	-1.76	4.71	2.73
France	1-3YR	-0.25	0.26	-0.53	0.68	-0.56	0.29	1.89	-0.04
	7-10YR	-1.68	-1.18	-2.55	-1.36	-3.04	-2.22	1.50	-0.42
	20+YR	-3.65	-3.16	-4.19	-3.02	-6.47	-5.67	0.23	-1.67
Sweden	1-3YR	-0.16	-1.25	-0.15	-3.35	-0.17	-4.49	2.22	-3.23
	7-10YR	-1.07	-2.15	-1.88	-5.02	-3.02	-7.22	1.06	-4.34
	20+YR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Australia	1-3YR	-0.40	0.64	0.11	1.12	0.47	-0.39	1.74	1.26
	7-10YR	-2.89	-1.87	-1.89	-0.90	-1.95	-2.79	-3.69	-4.14
N.7	20+YR	-5.93	-4.94	-4.35	-3.38	-5.87	-6.67	-10.57	-10.99
NZ	1-3YR	0.01	0.44	0.78	-0.37	0.87	-1.78	3.69	0.63
0	7-10YR	-1.87	-1.44	-1.00	-2.13	-2.37	-4.93	-1.04	-3.97
Canada	1-3YR	-0.37	-0.37	-0.02	-0.02	-0.26	-0.26	1.75	1.75
	7-10YR	-2.15	-2.15	-2.29	-2.29	-3.70	-3.70	-3.60	-3.60
	20+YR	-5.25	-5.25	-5.93	-5.93	-10.16	-10.16	-10.14	-10.14

Indices used: FTSE Canada Non-Agency Bond Index (Short, Mid, Long).

# Appendix - Global Bond Market Returns % (CAD vs LC, TR) - Apr 25, 2024

#### Inflation-Linked Bond Returns

Top 15% Bottom 15%

Green highlight indicates top 15%, red indicates bottom 15%.

		11	М	3	М	Y	TD	12	2M
		Local	CAD	Local	CAD	Local	CAD	Local	CAD
US	1-5YR	-0.22	1.30	-0.10	2.72	0.34	4.54	2.23	3.55
	5-10YR	-1.92	-0.43	-2.75	0.00	-2.29	1.81	-2.48	-1.22
	20+YR	-5.92	-4.49	-7.54	-4.93	-8.56	-4.73	-12.95	-11.82
UK	1-5YR	-0.10	0.53	0.33	1.44	-0.42	1.91	4.64	5.59
	5-10YR	-1.66	-1.04	-0.81	0.30	-2.41	-0.12	2.41	3.34
	20+YR	-7.21	-6.63	-2.36	-1.27	-11.10	-9.02	-14.69	-13.91
EUxUK	1-5YR	-0.02	0.49	-0.07	1.15	-0.32	0.53	0.72	-1.19
	5-10YR	-0.87	-0.36	-1.35	-0.14	-2.15	-1.31	-1.00	-2.88
	20+YR	-3.09	-2.60	-3.05	-1.86	-5.97	-5.16	-8.99	-10.71
Japan	1-5YR	-0.20	-2.56	-0.72	-5.17	-0.69	-7.30	1.65	-10.91
	5-10YR	-0.11	-2.47	-0.13	-4.61	0.17	-6.50	3.82	-9.00
EM	1-5YR	-0.65	-1.56	0.93	0.32	1.87	0.62	10.73	3.32
	5-10YR	-2.21	-2.46	-1.58	-1.42	-1.61	-2.15	6.65	2.48
	20+YR	-3.23	-4.31	-4.78	-4.65	-6.38	-6.83	3.66	3.55
Germany	1-5YR	-0.02	0.49	-0.07	1.15	-0.32	0.53	0.72	-1.19
	5-10YR	-0.87	-0.36	-1.35	-0.14	-2.15	-1.31	-1.00	-2.88
	20+YR	-3.09	-2.60	-3.05	-1.86	-5.97	-5.16	-8.99	-10.71
Italy	1-5YR	-0.05	0.46	0.13	1.35	0.14	0.99	3.79	1.83
	5-10YR	-0.43	0.08	1.07	2.30	0.90	1.76	6.15	4.14
	20+YR	-1.51	-1.00	4.97	6.25	2.97	3.84	5.62	3.62
Spain	1-5YR	0.11	0.62	0.07	1.29	-0.19	0.66	1.81	-0.12
	5-10YR	-0.25	0.26	0.54	1.76	-0.02	0.83	3.08	1.13
France	1-5YR	-0.36	0.15	-0.78	0.43	-0.94	-0.09	0.30	-1.60
	5-10YR	-0.73	-0.22	-1.16	0.04	-1.93	-1.09	-0.19	-2.08
	20+YR	-2.40	-1.90	-1.43	-0.23	-5.33	-4.53	-3.88	-5.70
Sweden	1-5YR	0.19	-0.91	0.31	-2.90	-0.07	-4.40	3.07	-2.43
	5-10YR	0.52	-0.58	0.39	-2.82	-1.02	-5.31	3.86	-1.69
Australia	1-5YR	-0.29	0.75	0.38	1.39	0.33	-0.53	2.58	2.10
	5-10YR	-1.79	-0.76	-0.84	0.16	-1.24	-2.07	0.33	-0.14
	20+YR	-5.64	-4.65	-4.00	-3.03	-7.83	-8.62	-5.75	-6.19
NZ	5-10YR	-0.74	-0.31	1.14	-0.02	0.22	-2.41	1.93	-1.08
	20+YR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Canada	20+YR	-3.66	-3.66	-2.46	-2.46	-5.44	-5.44	-4.37	-4.37

Indices used: FTSE Canada RRB Canada Bond Index.

# Appendix - Canadian Historical Bond Yields % as of April 30, 2024

#### **Canadian Bond Yields**

Top 15% Bottom 15%

Green highlight indicates top 15%, red indicates bottom 15%.

		1-3YR	7-10YR	20+YR	All Mat
Canada	Current	4.29	3.81	3.72	
	3M Ago	3.99	3.35	3.30	
	6M Ago	4.55	4.08	3.93	
	12M Ago	3.55	2.83	2.94	
IL	Current			1.96	
	3M Ago			1.70	
	6M Ago				
	12M Ago			1.26	
Provincial	Current	4.44	4.38	4.70	4.55
	3M Ago	4.07	3.91	4.26	4.11
	6M Ago	4.71	4.71	4.95	4.82
	12M Ago	3.72	3.48	3.97	3.77
Ontario	Current	4.45	4.37	4.68	4.53
	3M Ago	4.10	3.91	4.24	4.11
	6M A go	4.71	4.72	4.94	4.81
	12M Ago	3.74	3.48	3.96	3.77
Quebec	Current	4.42	4.37	4.68	4.54
	3M Ago	4.00	3.89	4.22	4.08
	6M Ago	4.65	4.71	4.91	4.80
	12M Ago	3.68	3.47	3.93	3.75
Alberta	Current	4.43	4.33	4.69	4.51
	3M Ago	4.05	3.88	4.30	4.11
	6M Ago	4.73	4.65	4.95	4.79
	12M Ago	3.70	3.46	4.00	3.76
BC	Current	4.47	4.38	4.69	4.55
	3M Ago	4.12	3.91	4.22	4.09
	6M Ago	4.77	4.69	4.94	4.82
	12M Ago	3.68	3.46	3.96	3.75
Municipal	Current	4.46	4.46	4.91	4.66
	3M Ago	4.07	3.99	4.47	4.23
	6M Ago	4.74	4.78	5.18	4.94
	12M Ago	3.77	3.55	4.19	3.90
Corporate	Current	5.12	5.25	5.39	5.21
	3M Ago	4.90	4.90	5.06	4.94
	6M Ago	5.87	5.92	5.85	5.88
	12M Ago	4.86	4.71	4.90	4.84
High Yield	Current				6.82
	3M Ago				7.04
	6M Ago				8.32
	12M Ago				7.37

		1-5YR	5-10YR	20+YR	All Mat
AAA/AA	Current	4.85	4.87	4.89	4.85
	3M Ago	4.60	4.53	4.51	4.60
	6M Ago	5.57	5.61	5.24	5.56
	12M Ago	4.53	4.34	4.38	4.51
A	Current	5.04	4.98	5.16	5.07
	3M Ago	4.81	4.62	4.81	4.79
	6M Ago	5.78	5.62	5.57	5.70
	12M Ago	4.77	4.40	4.62	4.67
BBB	Current	5.31	5.40	5.72	5.43
	3M Ago	1.98	1.64	2.01	5.17
	6M Ago	2.82	2.50	2.64	6.14
	12M Ago	1.62	1.23	1.64	5.12
Comm	Current	5.19	5.74	5.29	5.29
	3M Ago	4.81	5.41	5.10	4.96
	6M Ago	5.95	6.32	5.98	5.96
	12M Ago	4.67	5.34	4.93	4.99
Energy	Current	5.29	5.36	5.46	5.38
	3M Ago	5.10	5.06	5.17	5.12
	6M Ago	5.98	6.02	5.99	6.00
	12M Ago	4.93	4.81	4.98	4.92
Financial	Current	5.08	5.19	5.28	5.09
	3M Ago	4.85	4.88	4.98	4.86
	6M Ago	5.86	6.00	5.79	5.87
	12M Ago	4.84	4.75	5.07	4.84
Industrial	Current	5.08	5.16	5.44	5.19
	3M Ago	4.82	4.76	5.13	4.88
	6M Ago	5.72	5.73	5.91	5.77
	12M Ago	4.78	4.64	5.04	4.81
Infrastructure	Current	4.82	5.01	5.23	5.13
	3M Ago	4.56	4.60	4.86	4.77
	6M Ago	5.39	5.52	5.61	5.56
	12M Ago	4.37	4.35	4.66	4.57
Securitization	Current	5.08			5.08
	3M Ago	4.88			4.88
	6M Ago	5.80			5.81
	12M Ago	4.79			4.79

Indices used: FTSE Canada Non-Agency Bond Index (Short, Mid, Long), FTSE Canada RRB Canada Index, FTSE Canada Corporate Bond Index (Short, Mid, Long, AAA/AA, A, BBB), FTSE Canada Provincial Bond Index, FTSE Canada High Yield Bond Index.

# Appendix - Historical Bond Yields % as of April 30, 2024

#### **Global Bond Yields**

Top 15% Bottom 15%

Green highlight indicates top 15%, red indicates bottom 15%.

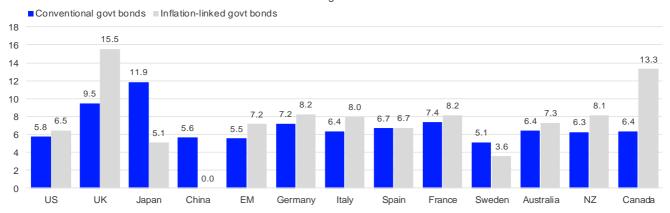
		Conv	entional go	vernment b	onds	Inflat	ion-linked k	onds	Inv Grade	High Yld
		1-3YR	3-5YR	7-10YR	20+YR	1-5YR	5-10YR	20+YR	All Mat	All Mat
US	Current	5.09	4.80	4.69	4.85	2.41	2.24	2.44	5.75	8.22
	3M Ago	4.33	3.93	3.93	4.31	1.98	1.64	2.01	5.14	7.97
	6M Ago	5.17	4.87	4.90	5.19	2.82	2.50	2.64	6.38	9.46
	12M Ago	4.24	3.62	3.41	3.75	1.68	1.23	1.58	5.15	8.47
UK	Current	4.64	4.31	4.28	4.72	0.30	0.49	1.38		
	3M Ago	4.21	3.73	3.75	4.39	0.16	0.21	1.25		
	6M Ago	4.67	4.45	4.43	4.91	0.65	0.71	1.51		
	12M Ago	4.05	3.69	3.60	4.04	0.51	0.19	0.70		
Japan	Current	0.21	0.39	0.76	1.86	-1.21	-0.76			
	3M Ago	0.04	0.20	0.59	1.73	-1.65	-0.83			
	6M Ago	0.09	0.34	0.83	1.82	-1.55	-0.65			
	12M Ago	-0.07	0.03	0.32	1.23	-1.50	-0.70			
China	Current	1.89	2.06	2.34	2.61					
	3M Ago	2.07	2.22	2.46	2.70					
	6M Ago	2.27	2.42	2.67	3.08					
	12M Ago	2.28	2.44	2.73	3.14					
EM	Current	3.42	3.86	4.56	3.94	5.65	5.21	5.67	6.01	9.15
	3M Ago	3.34	3.81	4.64	4.17	4.38	4.41	5.03	5.58	9.35
	6M Ago	3.71	4.43	5.00	4.55	4.20	4.73	5.46	6.71	11.34
	12M Ago	3.74	4.17	4.62	4.44	4.12	4.14	5.05	5.60	11.79
Germany	Current	3.08	2.67	2.53	2.69	1.12	0.46	0.43		
	3M Ago	2.57	2.07	2.06	2.38	0.81	0.20	0.27		
	6M Ago	3.09	2.66	2.70	3.05	0.90	0.45	0.65		
	12M Ago	2.72	2.58	2.48	2.63	0.46	0.13	0.03		
Italy	Current	3.45	3.38	3.68	4.24	1.25	1.54	1.79		
	3M Ago	2.96	2.93	3.47	4.21	1.08	1.58	1.94		
	6M Ago	3.77	3.88	4.45	5.06	1.77	2.35	2.53		
	12M Ago	3.36	3.38	3.82	4.39	1.26	1.75	1.80		
France	Current	3.17	2.93	2.96	3.39	0.72	0.65	0.86		
	3M Ago	2.62	2.34	2.52	3.13	0.44	0.37	0.78		
	6M Ago	3.21	3.01	3.23	3.88	0.93	0.78	1.28		
	12M Ago	2.84	2.80	2.86	3.37	0.41	0.36	0.65		
Sweden	Current	3.14	2.68	2.50		1.60	0.85			
	3M Ago	2.68	2.21	2.18		1.26	0.76			
	6M Ago	3.43	3.05	2.94		1.34	1.30			
	12M Ago	2.89	2.63	2.40		0.96	0.71			
Australia	Current	4.16	4.05	4.36	4.75	1.40	1.71	2.06		
	3M Ago	3.69	3.60	3.97	4.42	1.04	1.39	1.81		
	6M Ago	4.49	4.48	4.87	5.33	1.47	2.04	2.53		
	12M Ago	3.13	3.96	3.97	4.27	1.24	1.46	1.72		
NZ	Current	5.16	4.77	4.85	5.17	2.29	2.51			
	3M Ago	4.89	4.44	4.55	4.87	1.72	2.39			
	6M Ago	5.49	5.37	5.55	5.69	2.47	3.05			
	12M Ago	4.89	4.61	4.55	4.63	1.36	1.99			
Canada	Current	4.29		3.81	3.72			1.96	5.21	6.82
	3M Ago	3.99		3.35	3.30			1.70	4.94	7.04
	6M Ago	4.55		4.08	3.93				5.88	8.32
	12M Ago	3.55		2.83	2.94			1.26	4.84	7.37

# Appendix - Duration and Market Value (USD, Bn) as of April 30, 2024

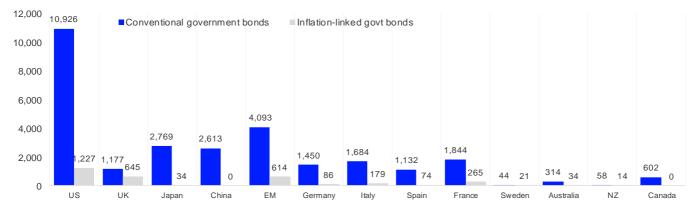
			Conve	ntional g	overnme	ent bond	s		Inflation-linked government bonds					
		Durat	ion		Market Value				Duration			Market Value		
	3-5YR	7-10YR	20+YR	Overall	3-5YR	7-10YR	20+YR	Total	5-10YR	20+YR	Overall	5-10YR	20+YR	Total
US	3.7	7.2	16.3	5.8	2,616.2	1,102.1	1,256.2	10,925.6	7.0	21.5	6.5	404.3	105.6	1226.6
UK	3.8	7.4	18.2	9.5	160.5	190.7	298.0	1,176.6	7.9	27.4	15.5	114.6	215.7	644.7
Japan	4.0	8.2	23.5	11.9	325.3	351.8	575.8	2,769.1	8.1		5.1	12.3		33.6
China	3.7	7.6	18.0	5.6	614.4	420.5	300.0	2,613.4						
EM	3.6	7.0	16.4	5.5	889.58	733.23	390.39	4,093.2	5.9	13.1	7.2	103.2	154.6	614.5
Germany	3.7	7.7	20.2	7.2	337.41	191.76	182.71	1,449.7	6.6	21.1	8.2	42.8	17.8	85.7
Italy	3.6	7.1	16.5	6.4	312.62	298.99	155.43	1,684.1	7.1	25.7	8.0	64.9	5.6	178.9
Spain	3.6	7.3	17.5	6.7	223.32	201.69	109.61	1,131.8	7.6		6.7	47.2		74.1
France	3.7	7.3	19.4	7.4	340.72	317.34	242.08	1,844.1	6.3	23.9	8.2	87.3	20.9	265.0
Sweden	3.9	7.5		5.1	6.38	13.00		44.4	6.6		3.6	5.3		21.1
Australia	3.4	7.3	16.6	6.4	46.49	88.89	19.32	313.8	6.6	21.8	7.3	10.1	2.7	34.0
NZ	3.3	7.1	15.7	6.3	11.26	15.83	4.99	57.7	5.7		8.1	3.1		13.6
Canada		6.8	16.2	6.4		202.60	111.01	602.3		13.3	13.3		64.0	

						High	Yield					
	Duration							Market Value				MktVal
	AAA	AA	Α	BBB	Overall	AAA	AA	Α	BBB	Overall		
US	10.2	8.1	6.9	6.4	6.8	70.1	441.0	2,701.8	3,432.8	6,645.6	3.8	1,190.2
Euro	5.2	4.8	4.6	4.2	4.4	11.6	214.4	1,205.8	1,531.0	2,962.9	2.9	343.1
EM		6.6	5.1	5.3	5.3		35.97	214.70	275.0	525.7	3.3	170.6

#### Average Duration



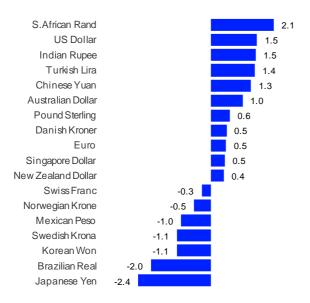
#### Total Market Value (USD Billions)



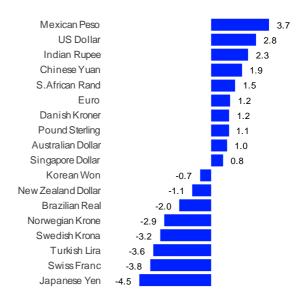
Data as of 2024-04-30

Indices used: FTSE Canada Non-Agency Bond Index (Mid, Long, Overall), FTSE Canada RRB Canada Bond Index.

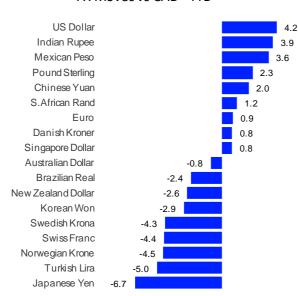
#### FX Moves vs CAD - 1M



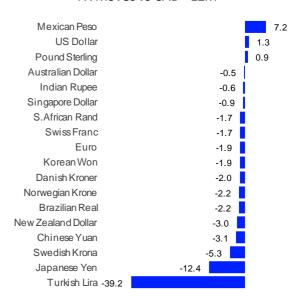
#### FX Moves vs CAD - 3M



#### FX Moves vs CAD - YTD



#### FX Moves vs CAD - 12M



# Appendix - Glossary

#### Bond markets are based on the following indices:

- FTSE Canada Universe Bond Index for all Canadian government and corporate bond markets\*
- FTSE Canada High Yield Bond Index for the Canadian high yield market
- FTSE Canada RRB Canada Index for the Canadian inflation-linked bond market
- FTSE World Government Bond Index (WGBI) for all global government bond markets
- FTSE World Inflation-Linked Securities Index (WorldILSI) for all global inflation-linked bond markets
- FTSE US Broad Investment-Grade Bond Index (USBIG®) for the US corporate bond market
- FTSE US High-Yield Market Index for the US high yield bond market
- FTSE Euro Broad Investment-Grade Bond Index (EuroBIG®) for the Euro-denominated corporate bond market
- FTSE European High-Yield Market Index for the European high yield market
- FTSE Chinese Government and Policy Bank Bond Index (CNGPBI) for the Chinese government bond market
- FTSE Emerging Markets Inflation-Linked Securities Index (EMILSI) for the emerging markets inflation-linked bond market
- FTSE Emerging Markets Broad Bond Index (EMUSDBBI) for the emerging markets corporate bond market

#### List of Abbreviations used in charts:

IL = Inflation-linked bonds

IG = Investment-grade bonds

HY = High-yield bonds

BPS = Basis points

EM = Emerging market

LC = Local currency

#### \* FTSE Canada Bond Indexes

1-3YR = Short Term Bond Indices

7-10YR = Mid Term Bond Indices

20+ YR = Long Term Bond Indices

# Global Investment Research Market Maps



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