

Fixed Income Insights

MONTHLY REPORT - JANUARY 2024 | CANADA EDITION

FOR PROFESSIONAL INVESTORS ONLY

Long Canadian Sovereigns, Munis and Provis make double digit returns in Q4

Long duration eventually proved the investor's friend in 2023, after falling inflation and hints of a Fed pivot sharply reversed the direction of G7 yields. Yields ended December back at Q1, 2023 levels. Canadian long government bonds, municipal and provincial bonds took centre stage, with returns of up 16% in Q4.

Macro and policy backdrop - The Fed pivot and Q4 disinflation fuelled expectations of BoC easing in 2024

The slowdown in the Canadian economy drove expectations the BoC could follow the US pivot, or even front-run it, after the economy stalled in Q3, despite the BoC's 'higher rate for longer' narrative, with the door still open for more rate rises. (page 2)

Canadian govts and credit - Long governments, munis and provis gained up to 16% in the Q4 Canadian bond rally The Canadian curve continued to disinvert in December, as 20-year bond yields fell sharply on expectations of aggressive rate cuts, despite the Bank of Canada caution on its rate policy. (pages 3-4)

Global yields and spreads – Yield curves remained deeply inverted, after G7 curves bull flattened

Q4, notably December, saw a rapid decline in bond yields, across the curve, which erased 12 months of yield rises, as median Fed dot plots show 75bp in cuts for 2024. (pages 5-6)

Sovereign and climate bonds - Climate WGBI outperformed, helped by duration

Duration boosted Climate and adjusted-Climate WGBI, despite the lower US weight, as curves bull flattened. (page 7)

Performance – Bunds and gilts performed best in Q4

The US dollar and European yields fell after the Fed pivot, boosting returns in non-US markets. (pages 8-10)

Appendix (from page 11)

20

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-20

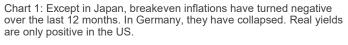
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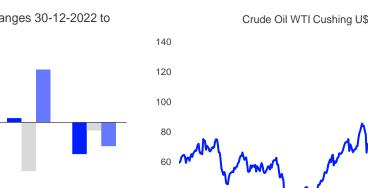
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US

Nominal Yield

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



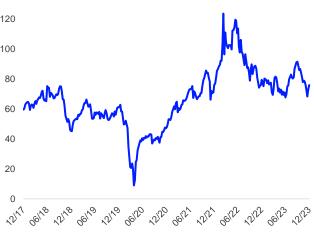


East and recent OPEC+ cuts.

Crude Oil WTI Cushing U\$/BBL

Chart 2: The oil price rebounded modestly in December, though re-

mained close to recent lows, despite wars in Europe and the Middle



7-10yr Government Bond Yield Changes 30-12-2022 to 29-12-2023 (bps) 40

Source: FTSE Russell and LSEG. Latest data available as of December 29, 2023. 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.

Canada

Japan

Breakeven Inflation

Real Yield

Germanv

UK

Macroeconomic Backdrop – Growth and Inflation Expectations

The Fed pivot and Q4 disinflation fuelled expectations of aggressive easing in 2024, despite a soft landing for growth in 2023, and an economy close to full employment. Forecasters are reluctant to predict recessions in 2024, despite lags in the impact of policy, leaving recession risks for 2024. Lowering inflation from 3% to 2% may prove challenging.

The Canadian economy slowed sharply, after real GDP contracted by 1.1% in the third quarter – its first contraction since the second quarter of 2021 – contrasting significantly with market expectations of a slight expansion, following growth of 1.4% in Q2 2023. Even so, the economy is expected to have grown by 1.1% in 2023, according to Consensus forecasts (Chart 1).

Chart two shows the annual inflation rate for Canada stayed unchanged at 3.1% y/y in November of 2023, while core inflation ticked up by 0.1% to 2.8% y/y, though remaining lower than many of its peers. The theory that the last 1-2% of disinflation to 2% target levels has higher costs than earlier disinflation will now be tested in the US, Canada and Eurozone.

Central banks left rates unchanged at their last meetings for 2023 (Chart 3), but only the Fed hinted at a pivot in 2024. Canadian policy rates have remained at 5% since September 2023. The growth slowdown and disinflation may give the BoC the opportunity to at least match Fed easing moves in 2024, given lower core inflation, but the BoC did not match the Fed pivot in Q4.

Housing starts declined sharply in November, from October, as 'higher for longer' rates impacted housing sales (Chart 4). However, robust immigration and population growth are expected to keep the level of Starts high in 2024.

Chart 1: 2023 saw better growth than expected, with recessions being averted. Forecasts for 2024 also suggest a soft landing, although US and Canadian growth are forecast to slow vs Europe.

Latest Consensu	IS Real GDP Fore	ecasts (%, Decer	nber 2023)
	2022	2023	2024
US	2.1	2.4	1.2
UK	4.1	0.5	0.4
Euro Area	3.5	0.5	0.6
Japan	1.6	0.8	1.1
China	2.8	5.0	4.4
Canada	3.5	1.1	0.7

Chart 3: Further signs of an uncoordinated G7 monetary policy cycle emerged in December after the Fed pivoted towards easing, while the ECB and the BoC remained firmly on hold.

6.0 5.5 5.0 4.5 4.0 3.5 3.0 25 2.0 1.5 1.0 0.5 0.0 -0.5 ~21/8 06123 ~2122 06125 06/22 ,2125 ~212 ~212 ECB BoE BoC BoJ PBoC ed

Major central bank interest rates (%)

Chart 2: Inflation levels mostly moved to the 2-3% territory, though the 'last mile' to 2% may be more challenging, judged by previous cycles. Canadian core inflation of 2.8% y/y is lower than peers.

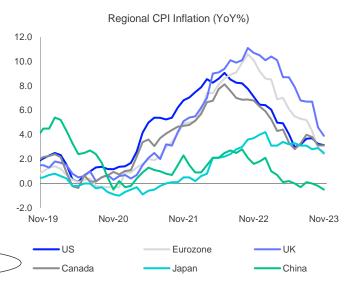
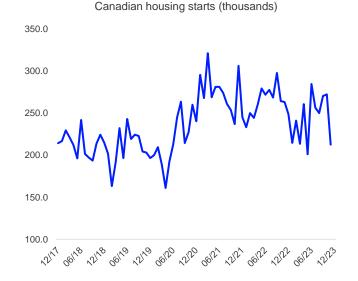


Chart 4: Despite a sharp drop in housing starts in November, expectations are that levels should stabilise in 2024 as BoC policy turns accommodative and population growth remains robust.



Canadian Governments, Provinces and Municipalities

Chart 1: The Canadian curve remained deeply inverted in December, after long bonds rallied, despite an unchanged inflation level and the BoC remaining cautious on rate policy.

Canada govt yields: mediums and longs vs shorts

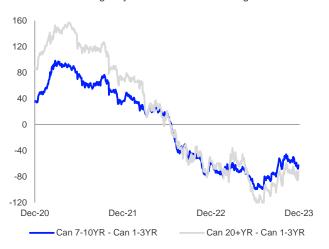


Chart 3: Long-dated Canadian real yields tracked nominal yields sharply lower, following slowing growth and expectations of policy easing from the BoC in 2024.

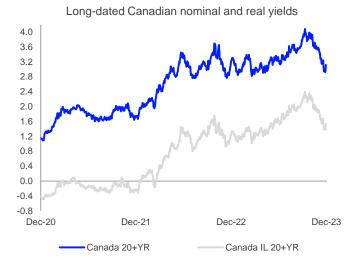


Chart 5: Alberta spreads remain volatile, but re-coupled with other Provinces in December, as energy prices fell, after trading through other provinces for much of 2023.

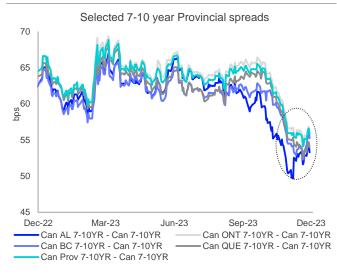


Chart 2: Canadian 7-10yr bond spreads rose a little vs peers in Q4 (ex vs JGBs), as yields fell faster elsewhere in the G7. However, Canadian spreads vs the UK and US remain deeply negative.

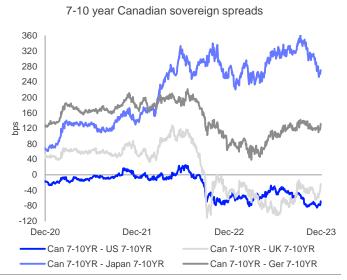


Chart 4: Inflation breakevens fell in December as inflation eased. Canadian breakevens fell less, as inflation stayed the same and the BoC left the door open for more hikes 'if needed'.

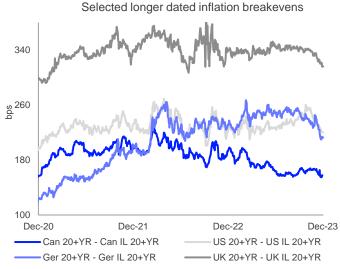


Chart 6: Short Canadian Municipals spreads fell in December, in anticipation of BoC policy easing in 2024, while those in longer



maturities were more stable. Duration matched Municipal spreads

Canadian Corporate Bonds

Chart 1: US and Canadian HY credits outperformed IG equivalents, as the risk rally continued, following better inflation news and forecasts of soft landing in the economy.

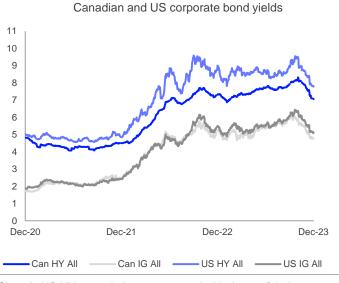


Chart 3: US HY spreads have converged with those of their Canadian equivalents, close to 400bp, the first time since 2020, after risk appetite recovered on expectations of aggressive cuts in 2024.

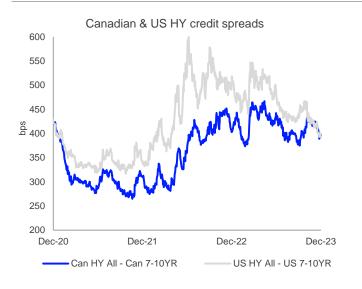


Chart 5: The difference in spreads across the quality spectrum has been modest in 2023, but the risk rally drove more tightening in BBB spreads than higher credit quality buckets.

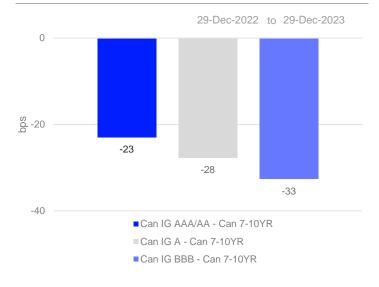


Chart 2: Infrastructure spreads were more stable than peers since 2020, and did not widen sharply in 2022. However, spreads tightened in 2023, as did real estate in Q4, on lower rate hopes.

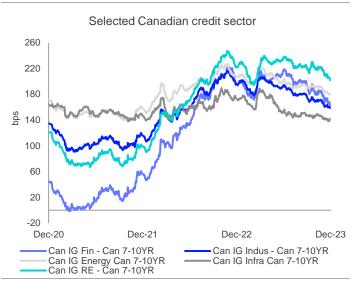


Chart 4: Credit spreads tightened in December, with AAA spreads tightening as much as lower quality credits, despite the risk rally. Credit spreads have been pro-cyclical in 2022-23.

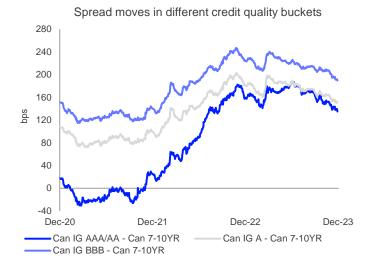
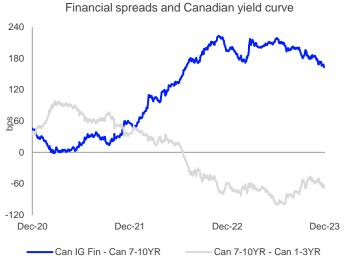


Chart 6: Sweet spot? Financial spreads fell in Q4 2023, despite further modest inversion in the yield curve – a contrast with recent spread moves. Easing in financial conditions may explain this.



Global Yields, Curves and Spread Analysis

Chart 1: Q4, notably December, saw a rapid decline in G7 bond yields, erasing 12M of rises, on expectations of Fed easing. Disinflation and the Fed pivot towards easing drove the move .

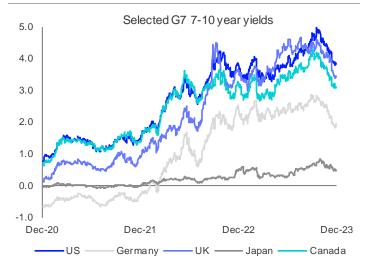


Chart 3: Yield curves have remained deeply inverted, after G7 curves bull flattened, with the Canadian yield curve remaining the most inverted.

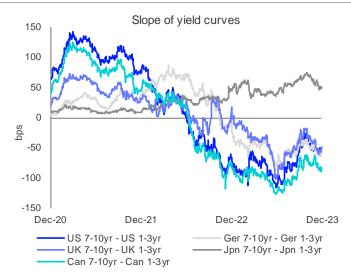


Chart 5: G7 inflation breakevens fell in Q4, remaining correlated with (lower) spot inflation. Japanese breakevens fell sharply, as the 2022 -23 increase in inflation began to unwind.

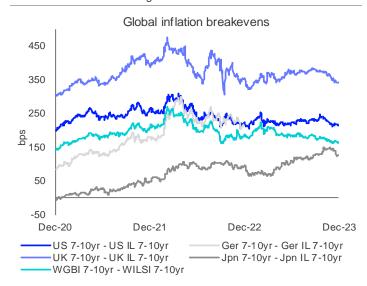


Chart 2: Excluding Japan, real yields fell sharply in Q4, tracking nominal yields lower, as economic growth slowed in response to the sharp rate rises in 2023.

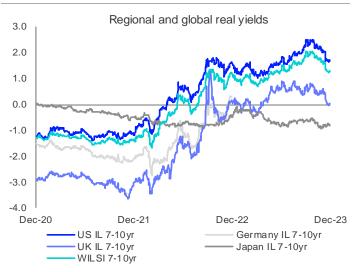


Chart 4: Most long G7 yield curves remained inverted in Q4, though the UK curve remains close to flat. The Canadian curve remained more inverted than peers and dis-inverted less in 2023.

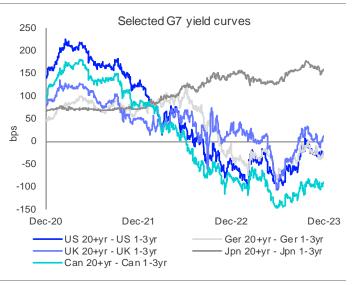


Chart 6: Global breakevens have fallen to pre-2020 levels, after global inflation eased on weaker economic growth and lower energy costs. Food inflation, while still high, has also eased.



Yield Spread and Credit Spread Analysis

Chart 1: US sovereign spreads proved pro-cyclical in 2023, rising as yields increased until October, before falling in Q4, although the decline in spreads is less marked than during Covid.

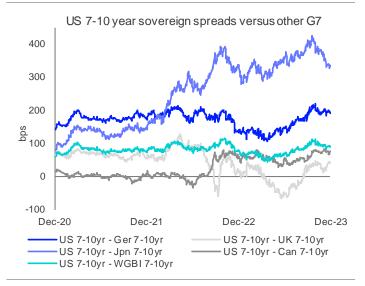


Chart 3: EM spreads widened in December, as the G7 bond market rally gathered momentum, ex JGBs, where yields fell less. Spillover effects from lower US Treasury yields may help EM spreads in Q1.

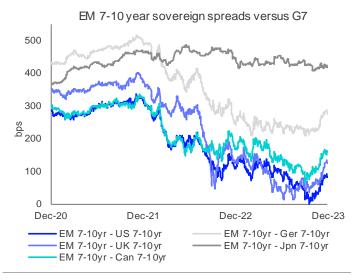


Chart 5: Credit spreads fell in Q4, led by HY, as the Fed pivot helped the G7 recovery in risk appetite, and risk assets rallied. HY outperformed IG in 2023, despite near recession in Europe.

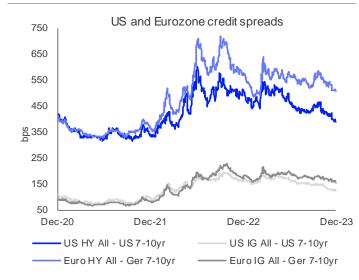


Chart 2: Italian spreads fell sharply in Q4 in anticipation of aggressive cuts and after Pres. Lagarde stressed ECB commitment to successful policy transmission, despite caution on easing rates.

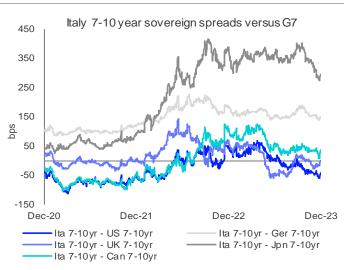


Chart 4: Chinese spreads vs the G7 have trended lower since 2020. They have generally been counter-cyclical, rising when G7 yields fall (Q4) and vice versa, offering diversification benefits to investors.

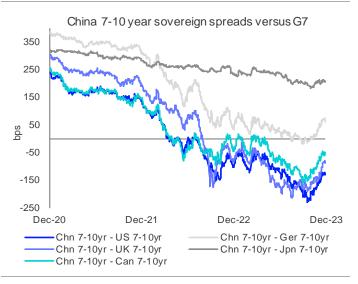
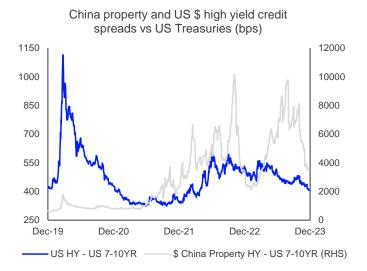


Chart 6: Chinese \$ HY spreads eased further in December to 3500bps, a level last seen a year ago. US HY spreads tightened by about 120bps during 2023 as risk appetite recovered.



Sovereign and Climate Bonds Analysis

Chart 1: The recovery in Emerging Markets ESG was the most striking move in 2023 and reflects a high Eastern Europe weight. Re-balancing of the ACWGBI towards Europe helped it recover.

Chart 2. ESG WGBI has a higher US weighting, and big underweight in China, reflected in its spread widening in 2022-23. Outperformance by Eurozone bonds drove ACWGBI spreads tighter.

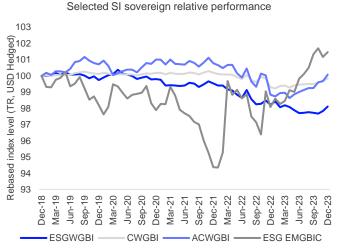


Chart 3: Paris-aligned PAB Corp outperformed strongly early in Covid, after oil prices collapsed, but has underperformed since. More subtly tilted indices, like Choice Corp, have been more stable.

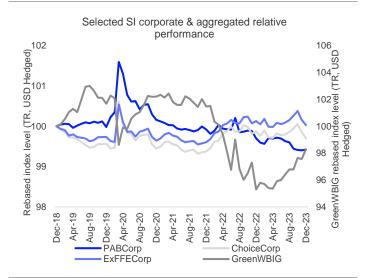
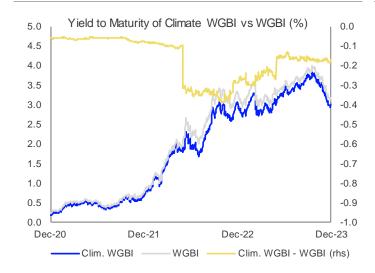


Chart 5: Extra duration in Climate WGBI helped it vs WGBI, as sovereign curves bull flattened in Bunds and JGBs in Q4. But this was offset by WGBI's heavier US weight and tighter US spreads.



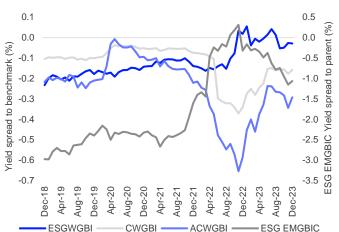


Chart 4: Spread widening in Green corporates in 2022/23 reflects heavy issuance but this reversed in 2023. The Paris-aligned PAB Corp is tilted away from fossil-fuels, so reflects energy price moves.

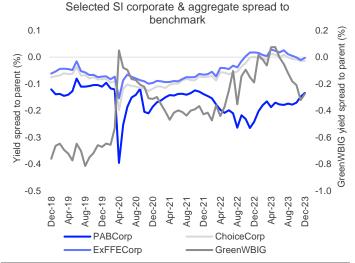
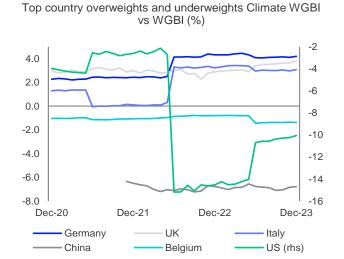


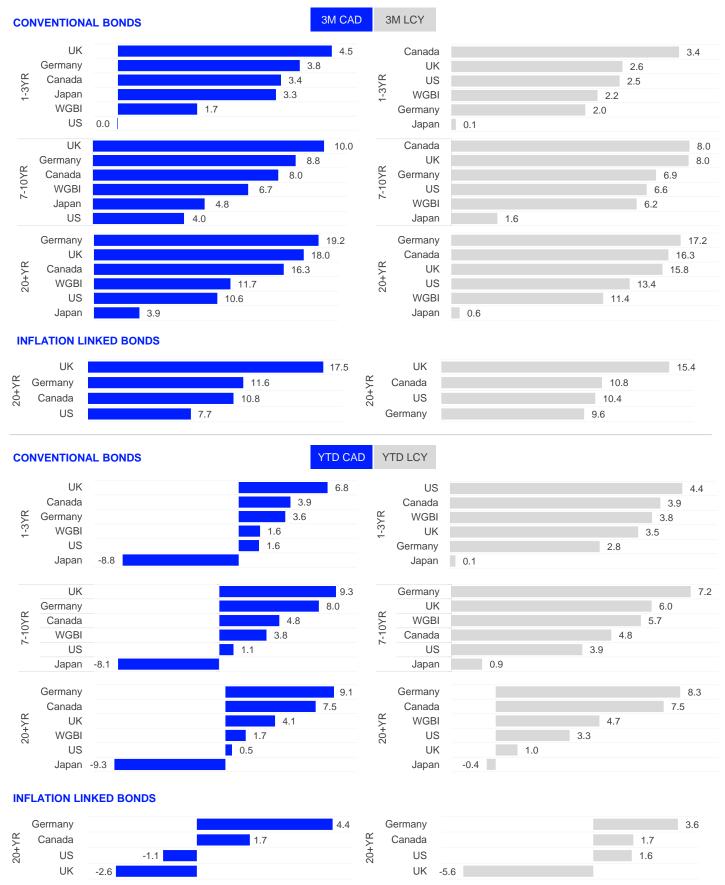
Chart 6: Changes in country weights in Climate WGBI (CW) impacted performance; the underweight in China & overweight in Europe caused the underperformance of CW vs WGBI in 2022-23.



Selected SI sovereign spread to benchmark

After a volatile Q4, government bonds finished 2023 with strong positive returns, led by longs, despite the October sell-off. Bunds and gilts performed best in Canadian dollars, while US Treasury returns were offset by dollar weakness after the Fed pivot. YTD, only JGBs gave negative returns, with losses of up to 9%. Shorter dated gilts were up 7-9%, helped by sterling.

Duration was eventually the investor's friend in Q4, after the Fed pivot. Investors anticipated similar easing pivots in Europe and Canada, with long German, UK and Canadian bonds offering Canadian dollar returns of 16-19% in Q4 overall.

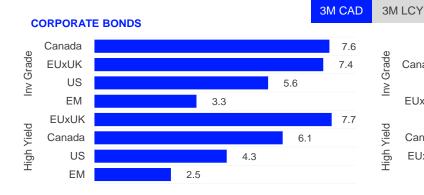


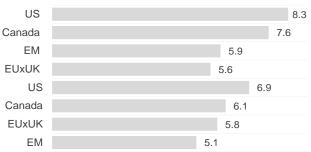
Source: FTSE Russell. All data as of December 29, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of indices used for each market. For professional investors only.

FTSE Russell | Monthly Fixed Income Insight Report - January 2024

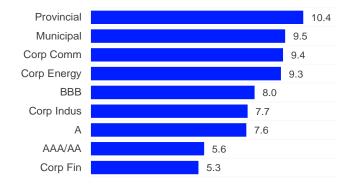
Both investment grade and high yield credits rallied in Q4, as risk appetite improved on lower inflation, expectations of rate cuts and a soft landing in the economy. Lower inflation and a stronger currency helped Euro HY credits gain 14% in Canadian dollars, YTD. Provis and munis have returned close to 10% in Q4, and BBB corporates outperformed AAA peers.

Canadian munis and provis recovered in Q4, following a lacklustre performance in the last twelve months and finished the year up 7 -8%. BBB corporates have outperformed higher quality credits on improved risk appetite.



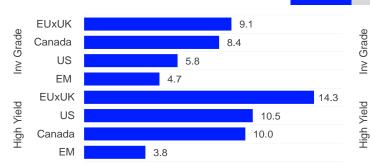


CANADA SPOTLIGHT



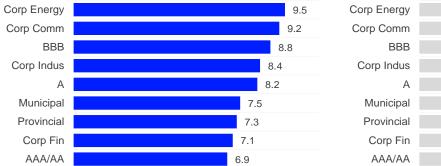
Provincial			10.4
Municipal			9.5
Corp Comm			9.4
Corp Energy			9.3
BBB		8.0	
Corp Indus		7.7	
А		7.6	
AAA/AA	5.6		
Corp Fin	5.3		

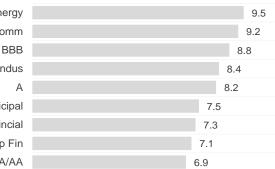
CORPORATE BONDS



US	8.	.7	
Canada	8.4	Ļ	
EUxUK	8.4		
EM	7.6		
US			13.5
EUxUK			13.1
Canada		10.0	
EM	6.7		

CANADA SPOTLIGHT





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 Index, FTSE Canada Municipal Bond Index.

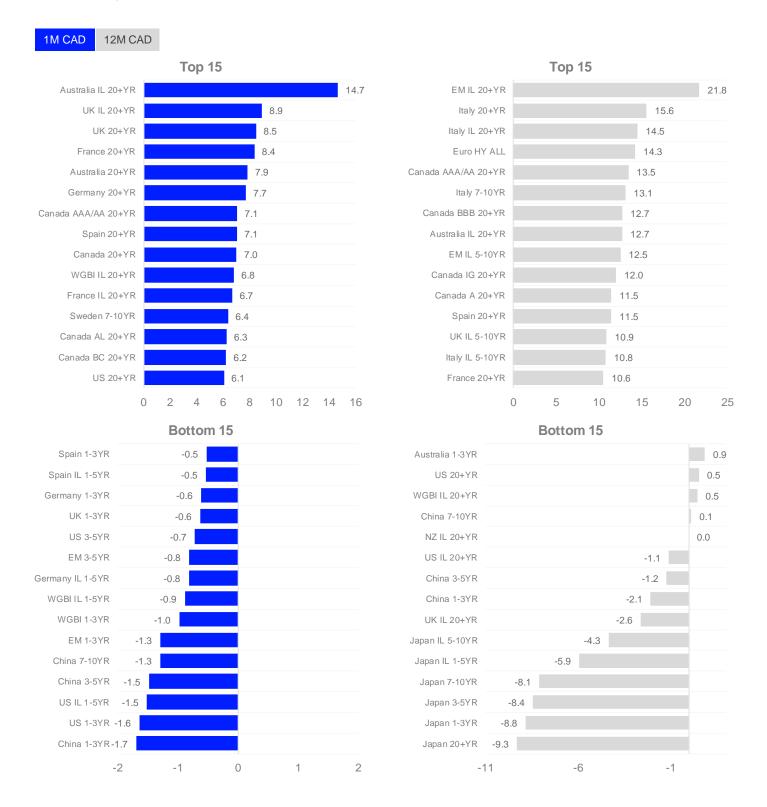
YTD CAD

YTD LCY

Top and Bottom Bond Returns - 1M & 12M % (CAD, TR) as of December 29, 2023

Longer duration proved the investor's friend in December. Both inflation linked and conventional Australasian, UK, Canadian and Eurozone sovereigns rallied strongly and registered returns of 7-15% in Canadian dollar terms. China and short US Treasuries were weakest, and delivered modest losses in December, mainly on weaker currencies.

The strength of the bond market rally in Q4 2023 erased losses in long bonds for the year, and they finished with robust positive returns. Long EM inflation bonds retained their leadership over 12 months, followed closely by long Italian bonds, Euro high yield credits, and long Canadian AAA corporates, with returns of 14-22%.



Government and corporate bond returns

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

			М		M	T	TD	14	M	
		Local	USD	Local	USD	Local	USD	Local	USD	
Government	1-3YR	3.41	6.03	3.33	3.70	3.94	6.80	3.94	6.80	
	7-10YR	8.03	10.76	3.32	3.68	4.79	7.68	4.79	7.68	
	20+YR	16.26	19.21	2.66	3.03	7.55	10.51	7.55	10.51	
Inflation-Linked	20+YR	10.84	13.64	2.15	2.51	1.71	4.51	1.71	4.51	
Corporate	1-3YR	4.78	7.43	4.91	5.28	6.68	9.62	6.68	9.62	
	7-10YR	8.67	11.42	5.89	6.26	8.53	11.52	8.53	11.52	
	20+YR	13.61	16.48	5.53	5.90	12.04	15.13	12.04	15.13	
AAA/AA	1-3YR	4.76	7.41	4.71	5.08	6.26	9.19	6.26	9.19	
	7-10YR	7.93	10.66	5.70	6.07	7.16	10.12	7.16	10.12	
	20+YR	17.13	20.10	5.99	6.37	13.47	16.60	13.47	16.60	
	All	5.55	8.23	5.10	5.47	6.88	9.83	6.88	9.83	
Α	1-3YR	4.64	7.29	4.86	5.23	6.55	9.49	6.55	9.49	
	7-10YR	8.35	11.09	5.49	5.86	8.08	11.06	8.08	11.06	
	20+YR	13.47	16.34	5.13	5.50	11.48	14.55	11.48	14.55	
	All	7.62	10.35	5.04	5.41	8.23	11.21	8.23	11.21	
BBB	1-3YR	4.96	7.62	5.06	5.43	6.99	9.94	6.99	9.94	
	7-10YR	8.87	11.63	6.10	6.48	8.87	11.87	8.87	11.87	
	20+YR	13.66	16.54	6.03	6.40	12.75	15.86	12.75	15.86	
	All	8.02	10.76	5.49	5.86	8.82	11.82	8.82	11.82	
Sectors	Comm	9.42	12.19	5.73	6.10	9.22	12.23	9.22	12.23	
	Energy	9.32	12.09	5.32	5.70	9.47	12.48	9.47	12.48	
	Fin	5.28	7.94	5.08	5.46	7.13	10.08	7.13	10.08	
	Indus	7.68	10.41	5.13	5.50	8.35	11.34	8.35	11.34	
	Infra	11.12	13.93	5.05	5.42	9.92	12.95	9.92	12.95	
	RE	6.01	8.69	5.18	5.55	7.24	10.20	7.24	10.20	
	Secur	4.18	6.82	4.57	4.94	6.34	9.27	6.34	9.27	
Provinces (All)	1-3YR	4.13	6.77	3.71	4.07	4.52	7.40	4.52	7.40	
	7-10YR	8.29	11.03	4.36	4.73	6.42	9.36	6.42	9.36	
	20+YR	15.04	17.96	3.68	4.05	9.21	12.22	9.21	12.22	
	All	10.42	13.21	3.86	4.22	7.31	10.27	7.31	10.27	
Ontario	1-3YR	4.06	6.69	3.64	4.00	4.47	7.35	4.47	7.35	
	7-10YR	8.24	10.98	4.24	4.61	6.39	9.32	6.39	9.32	
	20+YR	15.10	18.01	3.64	4.00	9.33	12.34	9.33	12.34	
	All	10.08	12.87	3.84	4.20	7.23	10.18	7.23	10.18	
Alberta	1-3YR	3.95	6.58	3.66	4.03	4.39	7.27	4.39	7.27	
	7-10YR	8.02	10.76	4.63	5.00	6.50	9.44	6.50	9.44	
	20+YR	15.29	18.21	3.71	4.07	8.64	11.63	8.64	11.63	
	All	10.01	12.80	3.88	4.24	6.78	9.73	6.78	9.73	
Quebec	1-3YR	4.43	7.08	3.91	4.28	4.76	7.64	4.76	7.64	
-	7-10YR	8.57	11.32	4.48	4.85	6.51	9.45	6.51	9.45	
	20+YR	15.08	18.00	3.77	4.14	9.35	12.36	9.35	12.36	
	All	11.09	13.90	3.95	4.32	7.65	10.62	7.65	10.62	
D O	1-3YR	3.54	6.16	3.48	3.85	4.25	7.13	4.25	7.13	
BC										
BC	7-10YR	8.07	10.81	4.28	4.65	6.29	9.22	6.29	9.22	
BC	7-10YR 20+YR	8.07 15.10	10.81 18.02	4.28 3.47	4.65 3.83	6.29 8.85	9.22 11.85	6.29 8.85	9.22 11.85	

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.

Source: FTSE Russell. All data as of December 29, 2023. 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 15% Bottom 15%

Government bond returns

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

Top 15% Bottom 15%	Top 15%	Bottom 15%
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		1	М	3	М	Y	ſD	12	M
		Local	CAD	Local	CAD	Local	CAD	Local	CAD
US	1-3YR	1.14	-1.64	2.52	-0.01	4.35	1.55	4.35	1.55
	7-10YR	3.99	1.13	6.58	3.95	3.92	1.14	3.92	1.14
	20+YR	9.06	6.06	13.36	10.56	3.32	0.55	3.32	0.55
	IG All	4.29	1.42	8.32	5.64	8.71	5.80	8.71	5.80
	HY All	3.55	0.70	6.94	4.30	13.50	10.46	13.50	10.46
UK	1-3YR	1.47	-0.63	2.56	4.48	3.52	6.77	3.52	6.77
	7-10YR	5.28	3.11	7.99	10.01	6.00	9.32	6.00	9.32
	20+YR	10.78	8.49	15.81	17.97	0.98	4.14	0.98	4.14
EUR	IG All	2.75	1.17	5.58	7.43	8.35	9.14	8.35	9.14
	HY All	3.00	1.36	5.82	7.71	13.14	14.26	13.14	14.26
Japan	1-3YR	0.01	1.99	0.07	3.30	0.10	-8.83	0.10	-8.83
	7-10YR	0.54	2.53	1.56	4.84	0.92	-8.08	0.92	-8.08
	20+YR	0.89	2.89	0.63	3.89	-0.41	-9.29	-0.41	-9.29
China	1-3YR	0.54	-1.69	0.72	1.17	2.67	-2.06	2.67	-2.06
	7-10YR	0.94	-1.29	1.68	2.13	4.98	0.14	4.98	0.14
	20+YR	2.47	0.20	3.57	4.03	9.79	4.73	9.79	4.73
EM	1-3YR	0.67	-1.29	1.18	1.90	4.04	1.42	4.04	1.42
	7-10YR	1.81	0.03	3.70	4.07	7.33	4.23	7.33	4.23
	20+YR	2.38	0.57	4.37	4.70	9.38	5.35	9.38	5.35
	IG All	3.21	0.38	5.93	3.32	7.56	4.68	7.56	4.68
	HY All	2.60	-0.22	5.08	2.48	6.66	3.80	6.66	3.80
Germany	1-3YR	0.94	-0.61	2.01	3.80	2.80	3.55	2.80	3.55
	7-10YR	3.42	1.83	6.90	8.78	7.17	7.95	7.17	7.95
	20+YR	9.41	7.72	17.18	19.24	8.29	9.08	8.29	9.08
taly	1-3YR	1.04	-0.52	2.72	4.52	4.35	5.11	4.35	5.11
	7-10YR 20+YR	4.00	2.40 5.87	9.17 16.02	11.09 18.06	12.33 14.78	13.14	12.33 14.78	13.14 15.61
0	1-3YR	1.03			4.08		15.61		
Spain	7-10YR	3.97	-0.52 2.37	2.28 8.20	4.08	3.41 8.84	4.17 9.64	3.41 8.84	4.17 9.64
	20+YR	8.73	7.05	16.96	10.10	10.67	11.48	10.67	11.48
Franco	1-3YR	1.18	-0.37	2.36	4.16	3.48	4.23	3.48	4.23
France	7-10YR	3.86	2.26	7.56	9.45	7.76	8.55	7.76	8.55
	20+YR	10.06	8.37	18.28	20.36	9.76	10.56	9.76	10.56
Sweden	1-3YR	1.23	2.37	2.14	7.39	3.16	3.79	3.16	3.79
Sweden	7-10YR	5.19	6.37	8.67	14.26	5.52	6.17	5.52	6.17
	20+YR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Australia	1-3YR	1.13	1.22	1.84	5.01	3.02	0.88	3.02	0.88
nuoti alla	7-10YR	3.91	3.99	5.24	8.52	5.10	2.92	5.10	2.92
	20+YR	7.76	7.85	10.79	14.24	5.07	2.88	5.07	2.88
NZ	1-3YR	1.13	0.82	3.11	5.97	4.73	2.03	4.73	2.03
	7-10YR	4.78	4.46	9.19	12.22	5.87	3.15	5.87	3.15
Canada	1-3YR	1.20	1.20	3.41	3.41	3.94	3.94	3.94	3.94
	7-10YR	3.69	3.69	8.03	8.03	4.79	4.79	4.79	4.79
	20+YR	7.03	7.03	16.26	16.26	7.55	7.55	7.55	7.55

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

Inflation-Linked Bond Returns

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

Top 15%	Rottom 15%
100 1370	Bottom 15%

		1	м	3	м	Ŷ	TD	13	2M
		Local	CAD	Local	CAD	Local	CAD	Local	CAD
US	1-5YR	1.27	-1.51	2.83	0.29	4.51	1.71	4.51	1.71
	5-10YR	3.14	0.30	5.30	2.69	4.21	1.41	4.21	1.41
	20+YR	6.99	4.05	10.38	7.65	1.64	-1.08	1.64	-1.08
UK	1-5YR	2.26	0.15	3.27	5.20	5.82	9.14	5.82	9.14
	5-10YR	3.83	1.68	4.95	6.91	7.56	10.93	7.56	10.93
	20+YR	11.23	8.93	15.37	17.52	-5.56	-2.60	-5.56	-2.60
EUxUK	1-5YR	0.73	-0.82	1.06	2.83	2.03	2.77	2.03	2.77
	5-10YR	1.40	-0.16	3.14	4.95	4.18	4.94	4.18	4.94
	20+YR	2.83	1.24	9.63	11.56	3.62	4.37	3.62	4.37
Japan	1-5YR	-0.54	1.43	0.61	3.86	3.28	-5.93	3.28	-5.93
	5-10YR	-0.41	1.56	1.72	5.01	5.02	-4.34	5.02	-4.34
EM	1-5YR	1.69	0.19	2.61	1.61	12.38	10.22	12.38	10.22
	5-10YR	2.56	1.57	5.13	4.64	12.11	12.54	12.11	12.54
	20+YR	5.19	4.27	9.82	10.24	15.31	21.78	15.31	21.78
Germany	1-5YR	0.73	-0.82	1.06	2.83	2.03	2.77	2.03	2.77
	5-10YR	1.40	-0.16	3.14	4.95	4.18	4.94	4.18	4.94
	20+YR	2.83	1.24	9.63	11.56	3.62	4.37	3.62	4.37
Italy	1-5YR	1.39	-0.17	3.30	5.11	5.18	5.95	5.18	5.95
-	5-10YR	2.94	1.36	6.91	8.79	10.03	10.83	10.03	10.83
	20+YR	7.60	5.94	17.17	19.23	13.71	14.53	13.71	14.53
Spain	1-5YR	1.02	-0.53	1.99	3.78	3.24	3.99	3.24	3.99
	5-10YR	2.12	0.55	4.67	6.51	5.70	6.47	5.70	6.47
France	1-5YR	1.08	-0.48	1.94	3.73	2.55	3.29	2.55	3.29
	5-10YR	2.20	0.62	3.96	5.79	4.93	5.69	4.93	5.69
	20+YR	8.36	6.70	14.05	16.06	6.84	7.62	6.84	7.62
Sweden	1-5YR	0.98	2.12	2.20	7.45	3.74	4.38	3.74	4.38
	5-10YR	3.60	4.76	5.42	10.83	5.01	5.66	5.01	5.66
Australia	1-5YR	1.64	1.72	2.68	5.88	6.70	4.48	6.70	4.48
	5-10YR	4.42	4.51	5.32	8.59	9.45	7.17	9.45	7.17
	20+YR	14.56	14.66	17.21	20.86	15.14	12.75	15.14	12.75
NZ	5-10YR	3.56	3.24	6.80	9.76	8.18	5.39	8.18	5.39
	20+YR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Canada	20+YR	3.73	3.73	10.84	10.84	1.71	1.71	1.71	1.71

Indices used: FTSE Canada RRB Canada Bond Index.

Canadian Bond Yields

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

		1-3YR	7-10YR	20+YR	All Mat
Canada	Current	3.73	3.10	3.04	
	3M Ago	4.70	4.07	3.88	
	6M Ago	4.34	3.34	3.13	
	12M Ago	3.90	3.30	3.31	
IL	Current			1.45	
	3M Ago			2.22	
	6M Ago			1.54	
	12M Ago			1.33	
Provincial	Current	3.82	3.66	4.01	3.86
	3M Ago	4.87	4.72	4.90	4.84
	6M Ago	4.43	3.99	4.11	4.15
	12M Ago	4.03	3.97	4.32	4.15
Ontario	Current	3.86	3.66	3.99	3.86
	3M Ago	4.88	4.73	4.90	4.85
	6M Ago	4.41	4.00	4.10	4.16
	12M Ago	4.05	3.97	4.32	4.15
Quebec	Current	3.74	3.64	3.96	3.83
	3M Ago	4.80	4.71	4.86	4.81
	6M Ago	4.47	3.98	4.06	4.11
Allerate	12M Ago	3.99	3.96	4.28	4.13
Alberta	Current	3.81	3.63	4.05	3.86
	3M Ago	4.89	4.68	4.89	4.82
	6M Ago	4.40	3.99	4.14	4.15
	12M Ago	3.99	3.95	4.29	4.11
BC	Current	3.87	3.65	3.99	3.85
	3M Ago	4.93	4.69	4.88	4.82
	6M Ago	4.50	3.97	4.09	4.11
	12M Ago	3.97	3.95	4.28	4.12
Municipal	Current	3.83	3.74	4.23	3.98
	3M Ago	4.93	4.78	5.14	4.98
	6M Ago	4.49	4.07	4.34	4.30
	12M Ago	4.08	4.05	4.58	4.29
Corporate	Current	4.76	4.71	4.84	4.77
	3M Ago	5.94	5.91	5.78	5.90
	6M Ago	5.54	5.23	5.05	5.36
	12M Ago	5.28	5.18	5.33	5.27
High Yield	Current				7.07
	3M Ago				7.93
	6M Ago				7.72
	12M Ago				7.34

		1-5YR	5-10YR	20+YR	All Mat		
AAA/AA	Current	4.46	4.38	4.27	4.45		
	3M Ago	5.66	5.65	5.21	5.65		
	6M Ago	5.24	4.97	4.50	5.21		
	12M Ago	4.94	4.70	4.78	4.89		
Α	Current	4.68	4.44	4.57	4.61		
	3M Ago	5.85	5.61	5.49	5.72		
	6M Ago	5.49	4.93	4.78	5.21		
	12M Ago	5.16	4.92	5.06	5.10		
BBB	Current	4.97	4.87	4.50 5.2 4.78 4.8 4.57 4.6 5.49 5.7 4.78 5.2 5.06 5.1 5.24 5.0 2.37 6.1 1.68 5.5 1.43 5.5 1.43 5.5 1.43 5.5 5.61 5.3 5.31 5.4 4.98 4.9 5.91 5.9 5.15 5.3 5.42 5.3 5.42 5.3 5.42 5.3 5.15 5.2 4.90 4.7 5.75 5.9 5.12 5.5 5.45 5.2 4.90 4.7 5.81 5.7 5.10 5.2 4.62 4.5	5.01		
	3M Ago	2.72	2.29	2.37	6.15		
	6M Ago	2.45	1.72	1.68	5.58		
	12M Ago	1.89	1.31	1.43	5.54		
Comm	Current	4.64	5.21	4.91	4.78		
	3M Ago	5.94	6.24	6.07	5.97		
	6M Ago	5.20	5.48	5.61	5.34		
Energy	12M Ago	5.18	5.78	5.31	5.42		
Energy	Current	4.91	4.84	4.98	4.92		
	3M Ago	6.07	6.01	5.91	5.99		
	6M Ago	5.61	5.32	5.15	5.34		
Financial	12M Ago	5.31	5.35	5.42	5.37		
Financial	Current	4.73	4.72	4.79	4.73		
	3M Ago	5.93	6.01	5.75	5.93		
-	6M Ago	5.54	5.34	5.12	5.52		
	12M Ago	5.26	5.10	5.45	5.25		
Industrial	Current	4.66	4.58	4.90	4.70		
	3M Ago	5.81	5.72	5.81	5.79		
	6M Ago	5.45	5.08	5.10	5.26		
-	12M Ago	5.26	5.09	5.45	5.26		
Infrastructure	Current	4.35	4.40	4.62	4.54		
	3M Ago	5.51	5.53	5.55	5.54		
-	6M Ago	5.02	4.87	4.83	4.86		
	12M Ago	4.83	4.80	5.10	5.01		
Securitization	Current	4.82			4.82		
-	3M Ago	5.90			5.91		
	6M Ago	5.55	-		5.55		
	12M Ago	5.25			5.25		

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.

Source: FTSE Russell. All data as of December 29, 2023. 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 15% Bottom 15%

Global Bond Yields

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

		Conv	entional go	overnment k	onds	Inflat	ion-linked b	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	4.37	3.92	3.87	4.14	2.20	1.72	1.96	5.11	0.00
	3M Ago	5.16	4.71	4.59	4.82	2.72	2.29	2.37	6.06	0.00
	6M Ago	5.01	4.31	3.85	3.95	2.45	1.72	1.68	5.53	0.00
	12M Ago	4.54	4.13	3.88	4.11	2.09	1.68	1.82	5.50	0.00
UK	Current	3.94	3.45	3.46	4.07	-0.02	-0.02	0.91		
ÖN	3M Ago	4.73	4.46	4.35	4.81	0.55	0.53	1.39		
	6M Ago	5.36	5.04	4.38	4.35	1.78	0.72	0.90		
	12M Ago	3.50	3.45	3.47	3.83	-0.28	0.17	0.52		
Japan	Current	0.00	0.13	0.50	1.60	-1.67	-0.81			
oupun	3M Ago	0.01	0.21	0.66	1.61	-1.75	-0.70			
	6M Ago	-0.10	-0.01	0.29	1.21	-1.64	-0.87			
	12M Ago	0.03	0.21	0.58	1.57	-1.06	-0.27			
China	Current	2.18	2.33	2.58	2.90					
omina	3M Ago	2.24	2.42	2.70	3.06					
	6M Ago	2.09	2.33	2.66	3.08					
	12M Ago	2.28	2.61	2.88	3.30					
EM	Current	3.44	3.95	4.70	4.34	4.27	4.23	4.82	5.57	10.03
	3M Ago	3.58	4.52	5.05	4.51	3.27	4.48	5.32	6.43	11.01
	6M Ago	3.67	4.04	4.79	4.42	4.15	4.07	4.86	5.95	11.86
	12M Ago	3.78	4.29	4.77	4.56	3.02	3.35	5.23	5.92	11.40
Germany	Current	2.48	1.97	1.96	2.25	0.92	0.16	0.16		
Cermany	3M Ago	3.21	2.78	2.75	2.97	0.87	0.44	0.52		
	6M Ago	3.17	2.66	2.37	2.36	0.96	0.19	-0.06		
	12M Ago	2.56	2.35	2.23	2.20	0.42	0.13	-0.11		
Italy	Current	2.99	2.88	3.45	4.17	1.23	1.62	1.88		
italy	3M Ago	3.94	4.03	4.50	5.02	1.68	2.31	2.43		
	6M Ago	3.79	3.71	3.87	4.25	1.74	1.78	1.70		
	12M Ago	3.34	3.18	3.67	4.15	0.86	1.56	1.72		
France	Current	2.49	2.23	2.43	3.00	0.56	0.32	0.64		
France	3M Ago	3.33	3.14	3.26	3.79	0.82	0.75	1.12		
	6M Ago	3.21	2.94	2.85	3.19	0.88	0.47	0.55		
	12M Ago	2.85	2.61	2.65	3.03	0.09	0.21	0.51		
Swadan	Current	2.59	2.04	2.00	0.00	1.12	0.59	0.01		
Sweden	3M Ago	3.50	3.18	2.98	0.00	1.42	1.28			
	6M Ago	3.43	2.94	2.61	0.00	1.18	0.91			
	12M Ago	2.80	2.61	2.40	0.00	0.42	0.62			
Australia	Current	3.71	3.63	3.90	4.30	0.42	1.27	1.61		
nusu diid	3M Ago	4.14	4.10	4.43	4.86	1.30	1.78	2.24		
	6M Ago	4.17	3.99	4.02	4.36	1.04	1.47	1.85		
	12M Ago	3.43	3.61	3.80	4.18	0.44	1.18	1.70		
N7	Current	4.71	4.24	4.31	4.60	1.45	2.12	0.00	0.00	0.00
NZ	3M Ago	5.63	5.35	5.32	5.54	2.50	2.89	0.00	0.00	0.00
	6M Ago	5.08	4.67	4.61	4.77	1.53	2.05	0.00	0.00	0.00
	12M Ago	5.00	4.07	4.65	4.76	1.45	2.13	0.00	0.00	0.00
Canada	Current	3.73	4.75	3.10	3.04	1.43	2.13	1.45	4.77	7.07
Canada	3M Ago	4.70		4.07	3.88			2.22	5.90	7.93
	6M Ago	4.70		3.34	3.13			1.54	5.36	7.93
	UNI AGO	4.54		3.34	3.31			1.34	5.36	1.12

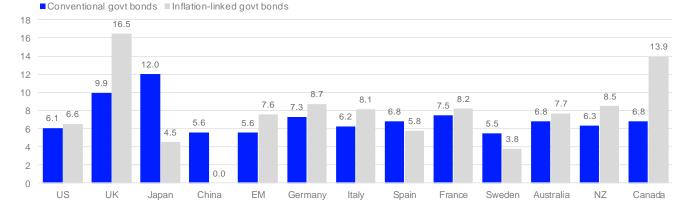
Source: FTSE Russell. All data as of December 29, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of indices used for each market. For professional investors only.

Top 15% Bottom 15%

Appendix – Duration and Market Value (USD, Bn) as of December 29, 2023

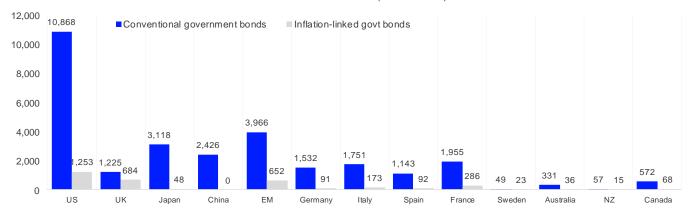
			Conve	ntional g	overnme	ent bonds	5		Inflation-linked government bonds					
		Durat	ion		Market Value				Duration			Market Value		
	3-5YR	7-10YR	20+YR	Overall	3-5YR	7-10YR	20+YR	Total	5-10YR	20+YR	Overall	5-10YR	20+YR	Total
US	3.7	7.4	17.2	6.1	2,522.9	1,098.8	1,336.4	10,868.3	7.0	21.2	6.6	423.2	126.7	1253.5
UK	3.6	7.4	18.8	9.9	140.0	190.5	346.2	1,225.4	6.9	27.4	16.5	113.2	268.0	684.3
Japan	3.8	8.0	23.7	12.0	378.7	370.5	673.5	3,117.7	7.2		4.5	21.0		48.1
China	3.7	7.6	17.7	5.6	595.9	358.8	277.5	2,426.4						
EM	3.5	7.0	15.9	5.6	894.36	689.37	380.18	3,966.2	5.8	13.9	7.6	118.7	177.5	651.7
Germany	3.8	7.6	20.8	7.3	358.49	239.49	185.01	1,532.5	7.0	21.5	8.7	45.3	19.6	90.9
Italy	3.6	7.2	16.4	6.2	309.20	305.12	152.96	1,750.6	7.5	26.1	8.1	63.9	5.6	173.0
Spain	3.8	7.7	18.1	6.8	211.84	204.73	108.23	1,143.4	6.5		5.8	24.0		91.8
France	3.9	7.6	20.2	7.5	330.38	307.24	245.38	1,954.8	6.4	24.3	8.2	110.9	22.4	286.4
Sweden	4.2	7.8		5.5	7.08	14.34		49.2	5.6		3.8	10.7		22.8
Australia	3.7	7.5	17.2	6.8	48.81	106.77	21.71	331.3	6.9	22.3	7.7	10.6	2.9	36.0
NZ	3.6	7.4	17.2	6.3	11.09	16.04	2.93	57.4	6.0		8.5	3.3		14.7
Canada		7.0	18.8	6.8		213.90	96.20	572.1		13.9	13.9		67.7	67.7

Investment grade bonds											High Yield	
Duration							Market Value				Duration	MktVal
	AAA	AA	А	BBB	Overall	AAA	AA	А	BBB	Overall		
US	10.7	8.6	7.3	6.7	7.1	77.6	459.8	2,747.0	3,470.9	6,755.4	3.9	1,182.0
Euro	5.7	4.8	4.6	4.2	4.4	11.2	205.4	1,277.8	1,553.0	3,047.4	3.0	428.2
EM		6.1	4.9	5.2	5.1		37.00	218.07	311.3	566.3	3.3	161.1



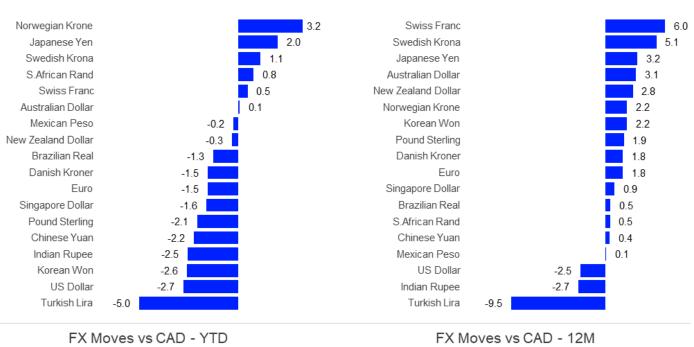
Average Duration





Data as of 2023-12-29

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



FX Moves vs CAD - 1M

Mexican Peso		12.0
Swiss Franc		7.0
Brazilian Real		5.8
Pound Sterling		3.1
Euro		0.7
Swedish Krona		0.6
Danish Kroner		0.5
Singapore Dollar	-1.1	
Australian Dollar	-2.1	
New Zealand Dollar	-2.6	
US Dollar	-2.7	
Indian Rupee	-3.2	
Korean Won	-4.5	
Chinese Yuan	-4.6	
Norwegian Krone	-5.6	
Japanese Yen	-8.9	
S.African Rand	-9.5	
Turkish Lira -3	38.3	

Mexican Peso 12.0 Swiss Franc 7.0 5.8 Brazilian Real Pound Sterling 3.1 Euro 07 Swedish Krona 0.6 Danish Kroner 0.5 Singapore Dollar -1.1 Australian Dollar -2.1 New Zealand Dollar -2.6 US Dollar -2.7 Indian Rupee -3.2 Korean Won -4.5 Chinese Yuan -4.6 Norwegian Krone -5.6 Japanese Yen -8.9 S.African Rand -9.5 Turkish Lira -38.3

FX Moves vs CAD - 3M

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

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

Source: FTSE Russell. All data as of December 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. For professional investors only.



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North America +1 877 503 6437	Hong Kong +852 2164 3333		
	Tokyo +81 3 6441 1430		
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