

An LSEG Business

Fixed Income Insights

MONTHLY REPORT - AUGUST 2023 | US EDITION

FOR PROFESSIONAL INVESTORS ONLY

Rapid US disinflation but Fed caution continues

G7 economies have withstood policy tightening to date, apart from a mild Eurozone recession. Fed tightening may be nearly complete, but sticky core inflation makes early easing unlikely. Treasuries are rangebound awaiting signs tightening is complete. IG credits are relatively cheap, after recent high yield outperformance.

Macro and policy backdrop – Service sectors stay robust, as lower inflation eases pressure on central banks

Disinflation gives central banks room to pause policy, even if July FOMC suggests Fed risk-averse about inflation. (pages 2-3)

Yields, curves and spreads – Curve inversions remain, except in Japan, where steepening follows BoJ move

Deep curve inversion and negative carry remain, reflecting re-investment risk, as tightening cycles near end. (pages 4-5)

Sovereign and climate bonds – "Greenium" stabilizes after duration and country weight changes squeezed it in 2022

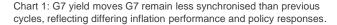
Increased country weights for longer duration sovereign bond markets, notably Japan and UK, key to spread moves. (page 6)

Performance – Gilts rallied in July, but 12M returns dominated by euro-driven gains in long euro govts & EM bonds

Long euro govt and inflation (IL) bonds, and EM IL gained 11-22% on 12M. Gilts rallied after better inflation data. (pages 7-8)

Appendix (from page 10)

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



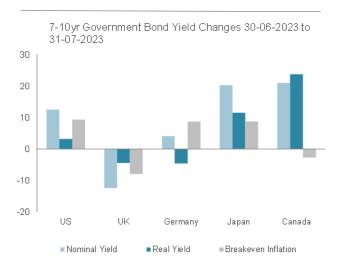
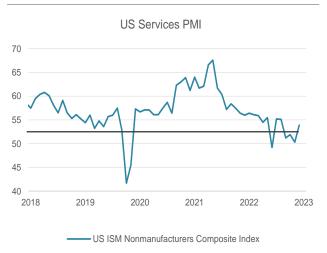


Chart 2:The US service sector ended Q2 strongly, despite Fed tightening, helped by consumer demand switching away from goods.



Source: FTSE Russell. Data available as of July 31, 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.

Macroeconomic Backdrop – Growth and Inflation Expectations

Divergence in G7 growth and inflation continues, but growth has generally held up well. Europe is most at risk of a hard landing. China's policy of domestic-led growth continues. A higher share of fixed rate mortgages has shielded G7 consumers from higher short rates. Lower inflation may be more elusive in Q3, due to base effects, after inflation fell sharply in Q2. Service sectors benefited from stronger demand, post-lockdowns, as consumers spend Covid windfalls.

Although growth slowed sharply, no G7 economy is in recession. The US avoided one, buoyed by services, and resilient consumers (Chart 1), even if interest rate sensitive sectors, like real estate, are weaker. The IMF increased its US forecasts again in late-July, for 2023, and Japan's service sector and tourism rebound may lead to growth forecast upgrades.

Inflation fell further in June, with the headline US CPI increasing at 3.0% y/y (v 9.1% in June 2022), core CPI 4.8% y/y and the Fed's target PCE deflator measure at 4.0% y/y. Shelter inflation is still 7.8% y/y, but super-core services inflation (ex shelter) is back to pre-Covid levels. Base effects are less helpful in Q3, as the big increases in inflation in Q2 2022 drop out of indices. Chart 2 shows the UK and China remain global inflation outliers, though even UK inflation dropped below 8.0% y/y in June.

Chart 3 shows oil and gold prices diverged since the Ukraine shock in February 2022, as energy prices first rose sharply, but then fell on the weak growth outlook, despite OPEC production cuts. Lower US inflation and the prospect of US rates peaking have helped the gold price recover in 2023, after Fed tightening and higher dollar interest rates drove it lower in 2022.

The US labor market shows evidence of labor hoarding and shortages, although there was some evidence of cooling in July, and average earnings stabilized at 4.4% y/y (Chart 4). Service sector inflation is highly sensitive to wage inflation, because of the high proportion of labor costs in services, as Fed Chairman Powell has noted. US wage growth has generally been below CPI inflation throughout the cycle, which is evidence the inflation regime has not changed, reinforced by stable US inflation breakevens.

Chart 1: North American and Asian forecasts show no recessions, helped by the recovery in services, and Asian policy support. Eurozone and UK risks of a hard landing are higher, after a bigger energy shock.

Latest Consen	sus Real GDP	Forecasts (%,	July 2023)
	2022	2023	2024
US	2.1	1.5	0.7
UK	4.1	0.2	0.7
Eurozone	3.3	0.5	1.0
Japan	1.6	1.1	1.1
China	3.0	5.5	4.8
Canada	3.5	1.3	1.0

Chart 3: Gold has recovered since the Fed tightening began, as lower inflation drives expectations of lower rates in 2023-24. Oil prices fell on the weaker growth outlook, despite OPEC production cuts.



Chart 2: Favorable base effects and lower energy prices drove inflation lower in 2022-23, led by the US and Canada. Core inflation fell less and is much stickier. China and the UK remain global inflation outliers.

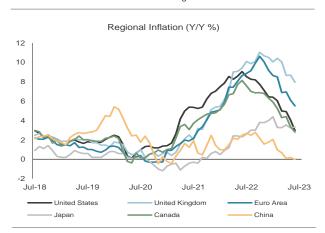


Chart 4: Wage inflation has not adapted to higher inflation rates, even if above pre-Covid levels, at 4.4% y/y, and despite evidence of labor hoarding. Lower wage inflation is an important factor in Fed easing.



Financial Conditions and Monetary Policy Settings

Financial conditions remain mixed, and eased a little in July, notably in the US. The FOMC left its options open, after the 25bp increase in rates, despite sharply lower US inflation. The BoJ signaled the beginning of the end of yield curve control, with the 10-year yield ceiling lifted to 1%. A harder landing for Europe unfolds and may limit ECB tightening.

Tightening in financial conditions is signaled in US M2 growth stalling (see Chart 1), higher policy rates, tighter US loan conditions, and yield curve inversion (see Chart 3, page 4). But distress is not evident in US equities, high yield credit spreads, or mortgage and credit card delinquencies, so the picture is mixed, and bank deposit flight has stabilized.

Exchange rates reflect disparate economic performance and policy settings in the post-Covid era (Chart 2). The BoJ decision to make yield curve control more flexible drove a strong yen rally at the end of July, and tightening rate differentials have weighed on the dollar since the high in Q4 2022. Sterling draws support from higher UK rates, but stagflation may limit gains.

Monetary policy diverges materially, both within the G7 and China, reflecting inflation dispersion, as Chart 3 shows. But the BoJ signaled greater "flexibility" in yield curve control, and that the end of zero rate policy may be near, after effectively lifting the 10-year yield ceiling to 1%. The Fed left its options open, after raising rates 25bp at the July FOMC, but the ECB hinted at a pause in September, after the move to 4.25%. Markets expect a further 25bp increase in UK rates on August 4th.

The Fed's balance sheet has fallen to \$8.27 trillion, unwinding the banking crisis impact (Chart 4), versus a peak of \$8.97trn in April 2022, but the contraction slowed sharply and is mainly through Treasury run-offs. The Fed's MBS holdings fell much less, due to the collapse in mortgage refinancings, after the Fed's 525bp of tightening. On a relative basis, the ECB and BoC shrunk balance sheets most in 2022-23. BoJ balance sheet expansion may be coming to an end, after curve control was made more flexible.

Chart 1: US M2 growth has steadily contracted since the Fed began raising rates in March 2022. The tightening in bank loan conditions has helped drive that slowdown, suggesting inflation may fall further.

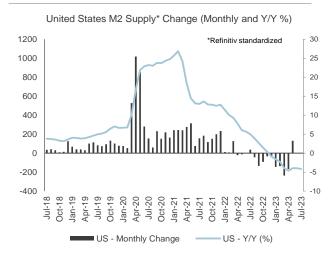
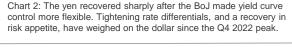


Chart 3: The Fed and ECB left options open after 25bp increases in July, though the ECB hinted at a pause. BoJ's flexible curve control suggests zero rates may end soon. A 25bp BoE move is expected on August 4th.



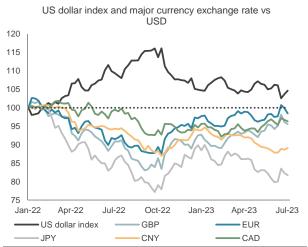
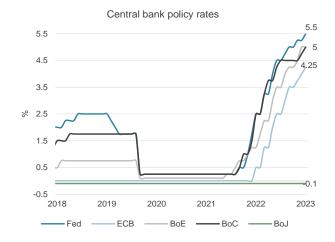
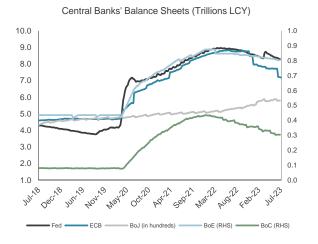


Chart 4: The Fed's balance sheet is below March levels, but the pace of QT slowed sharply since March. BoJ balance sheet expansion may be ending, after curve control was relaxed.





Global Yields, Curves and Spread Analysis

Chart 1: G7 7-10-year yields remain rangebound, including Treasuries, reflecting lower inflation but positive growth. Gilts have rallied modestly after better UK inflation data.



Chart 3: Yield curve inversion remains near cyclical lows, ex Japan, after further rate increases by the Fed and ECB. Canadian curve inversion deepened after the BoC's rate increases in June and July.

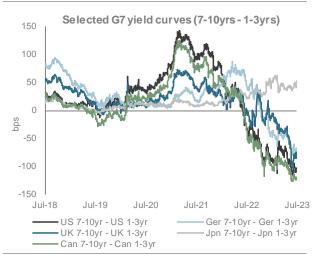


Chart 5: Persistent inflation above the 2% targets in the UK and Japan is impacting breakevens, which rose versus other G7 members. More flexibility in curve control has not reduced JGB breakevens.

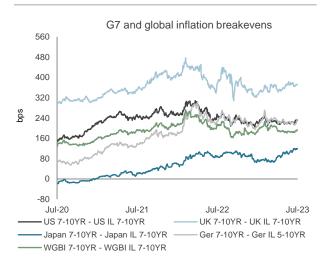


Chart 2: Real yields have tracked nominal yields in July, apart from Japan, where the combination of higher inflation accruals and zero rates have helped demand for JGB inflation linked bonds.

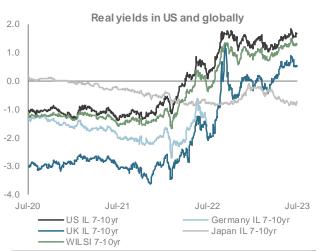


Chart 4: It is a similar story with inversion in long maturities, with Japan the exception. With yields near 15-year highs, investor concern over re-investment risks may be keeping curves inverted.

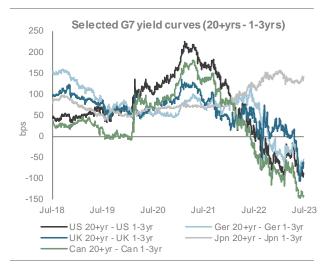


Chart 6: Global inflation breakevens of all tenors have converged near 2%, after a period of much higher short-dated breakevens. There is little evidence of inflation expectations de-stabilizing.



Source: FTSE Russell and Refinitiv. All data as of July 31, 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. For professional investors only.

Yield Spread and Credit Spread Analysis

Chart 1: US 7-10 year sovereign spreads remain stable awaiting clearer Fed signals that the tightening cycle is over. The sharp break lower versus the UK, after gilt yields spiked in Q2 remains a feature.

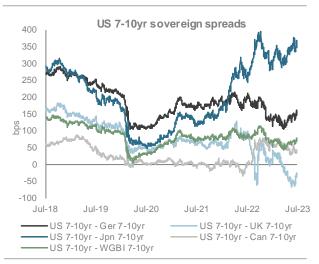


Chart 3: Despite predictions, an EM crisis failed to materialize after both Covid and Ukraine shocks and G7 tightening in 2022-23. Spreads are consolidating near cycle lows, apart from versus JGBs.

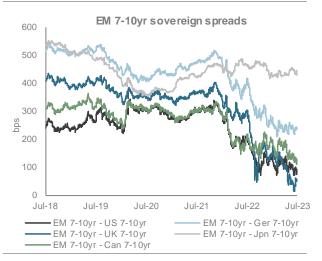


Chart 5: Although credit spreads are well above cycle lows, there is little sign of major stress, particularly in US high yield, which has mean-reverted to pre-Covid levels. Eurozone spreads remain wider.

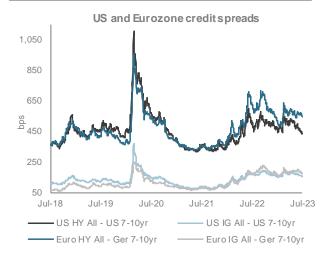


Chart 2: Italian spreads stabilized in July, though the risk rally drove them tighter since Q4 2022, supported by the ECB's transmission protection instrument (designed to protect peripheral spreads).

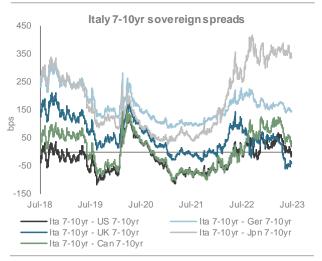


Chart 4: Low correlation of China with the G7 economic and policy cycle continues after different Covid policies and lockdown timings. Yield spreads have traded in wide ranges since the 2020 pandemic.

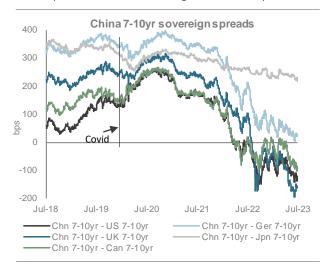


Chart 6: Chinese \$ HY spreads widened above 8000bps in July, after Evergrande delayed its financial results and debt restructuring. US HY spreads narrowed, benefiting from the risk rally.



Source: FTSE Russell and Refinitiv. All data as of July 31, 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. For professional investors only.

Sovereign and Climate Bonds Analysis

Chart 1: Climate WGBI outperformed WGBI during the years of very low yields, helped by extra duration, but this reversed in 2022, when rates and yields rose sharply. This has stabilized in 2023.

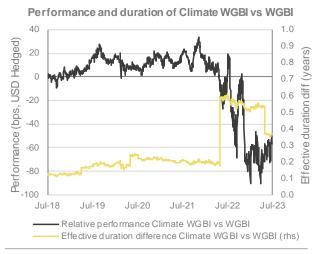


Chart 3: The increase in Japan's country weight in 2022 caused the yield on climate WGBI to drop sharply relative to WGBI. But this has fallen away with UK gilt yields rising sharply another factor in this.

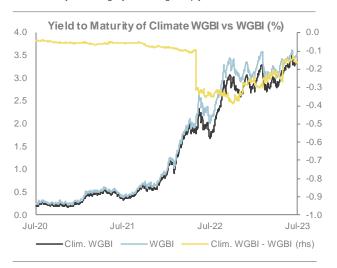
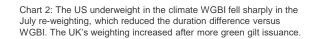


Chart 5: Yield curve flattening has caused yields to converge in the medium to long maturities at around 3% in both WGBI and climate WGBI in 2023, eliminating most of the "greenium" in climate WGBI.



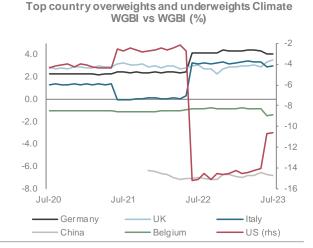


Chart 4: Climate WGBI's higher weighting in the Eurozone gives the index higher AAA weight, with Bunds rated AAA, but the lower US weighting in climate WGBI means the AA weight is notably lower.

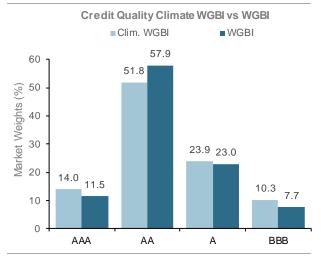
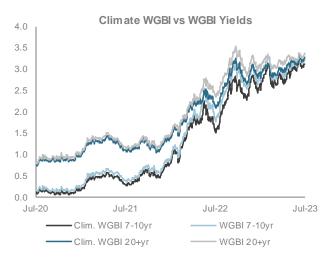
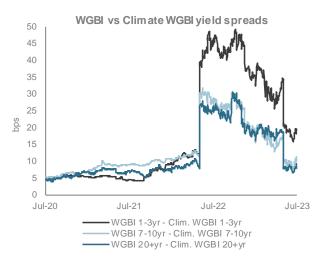


Chart 6: The "greenium" or yield discount on climate-WGBI versus WGBI has normalized in longer maturities, after increasing sharply when Japan's sovereign weight increased, and the US fell, in 2022.





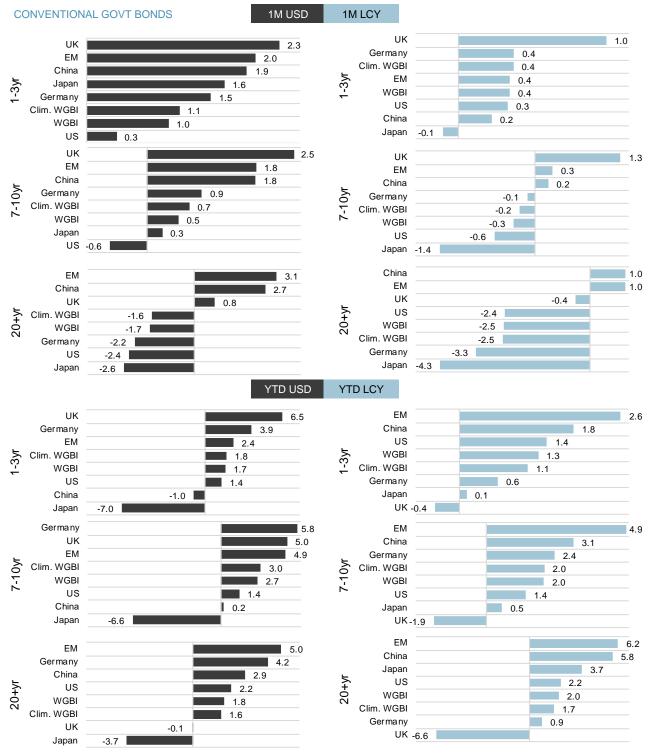
Source: FTSE Russell and Refinitiv. All data as of July 31, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of indices used for each market. For professional investors only.

Global Sovereign Bond Returns – 1M and YTD % (USD & LC, TR)

Government bonds mostly traded in narrow ranges in July, although gilts recovered after better inflation data, with gains of up to 3% in dollar terms, and signs curve control may be ending boosted the yen. YTD, the strong euro and sterling meant Bunds and short gilts offered the best returns in dollars of 4-7%. EM bonds performed well but JGBs lost up to 7%.

July central bank moves were well discounted, though the BoJ surprised markets in signaling curve control may end soon. Bonds range-traded as lower inflation was offset by higher policy rates, and currency moves dominated, notably the yen's end-month rally.

YTD, G7 yields have fallen modestly, as curves inverted and inflation fell, with gilts, Bunds, EM bonds and US Treasuries up 4-7%. But moves have been small compared to the brutal increases in yields in 2022, and FX moves often drove the bulk of returns, notably yen weakness and sterling and euro strength.

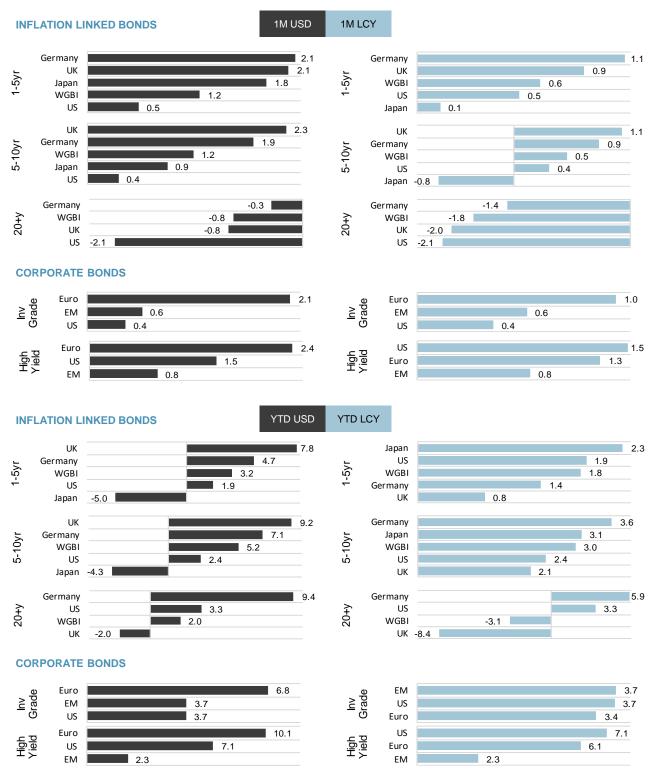


Global Inflation-Linked Bond Returns - 1M & YTD % (USD, LC, TR)

Inflation linked bonds rallied modestly in July, led by longer UK linkers, after lower UK inflation data eased rate expectations. Euro strength also boosted euro credit returns, in dollar terms. YTD, Bund, UK linkers and US Tips returned 3-9%, for a dollar investor, while credit gained 2-10%, led by euro HY.

After a difficult Q2 of underperformance, medium dated UK linkers rallied a little in July, as yields fell, with returns of 2% in dollar terms. Euro and yen gains also helped Bund and JGB linkers gain on the month, while long Tips fell back 2.1%.

YTD, credit performed well, with HY outperforming, thanks to the correlation of HY credit to equity market performance. Euro IG credits also gained by up to 7% in US dollars, boosted by Euro gains, as interest rate differentials improved versus the US dollar.



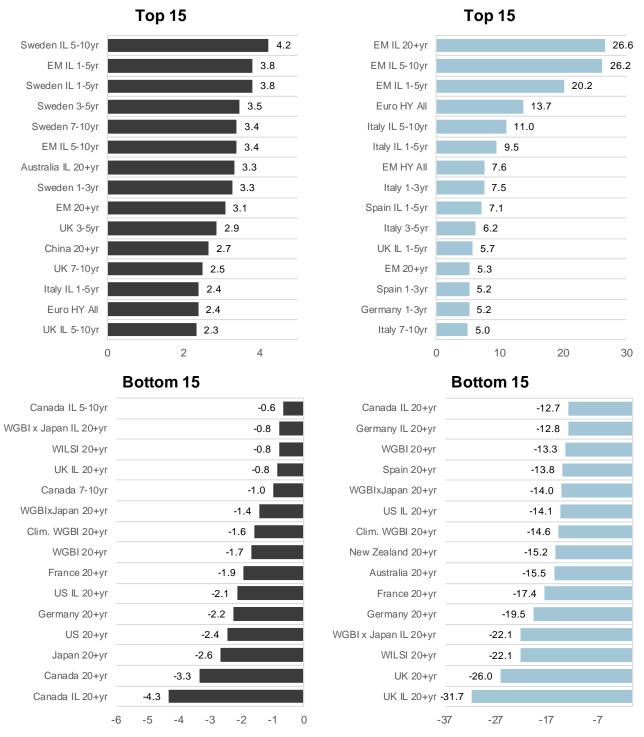
Top and Bottom Bond Returns - 1M & 12M % (USD, TR)

Shorter dated Swedish govt bonds, gilts and EM bonds were the strongest performers on 1M, in USD terms, returning 3-4%, helped by currencies. Longer Canadian, US and Eurozone bonds lost 2-4%, after policy rate increases. 12M returns were led by EM bonds, and euro FX gains in Italian and Spanish linkers, but most long govts showed sizeable losses.

The stronger Swedish krone helped drive Swedish government bond gains in July, while short to medium gilts and UK Index linked (IL) bonds rallied on better inflation data.

On 12M, shorter Italian and Spanish govts gained from spread convergence as risk rallied, and a stronger euro. EM inflation linked bonds returned up to 27%, continuing to outperform. But long duration govt bonds lost 13-32%, led by gilts, Bunds and WILSI.





Appendix - Global Bond Market Returns % (USD & LC, TR) - July 31, 2023

Government Bond Returns

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

		3N		61	И	YT	D	12	2M
		Local	USD	Local	USD	Local	USD	Local	USD
US	1-3yr	-0.47	-0.47	0.64	0.64	1.40	1.40	0.16	0.16
	7-10yr	-3.29	-3.29	-2.10	-2.10	1.38	1.38	-6.52	-6.52
	20+yr	-5.15	-5.15	-5.06	-5.06	2.17	2.17	-12.19	-12.19
	IG All	-0.75	-0.75	-0.43	-0.43	3.71	3.71	-1.18	-1.18
	HY All	2.33	2.33	3.12	3.12	7.12	7.12	4.22	4.22
UK	1-3yr	-0.73	1.62	-1.01	3.45	-0.39	6.55	-2.14	3.47
	7-10yr	-3.45	-1.17	-4.83	-0.53	-1.87	4.96	-14.26	-9.35
	20+yr	-5.52	-3.29	-10.47	-6.43	-6.56	-0.05	-30.03	-26.02
Euro	IG All	0.78	0.64	1.09	2.62	3.36	6.78	-3.32	4.54
	HY All	2.51	2.66	2.69	4.59	6.14	10.06	5.40	13.73
Japan	1-3yr	-0.08	-4.24	0.01	-8.46	0.12	-7.03	-0.12	-6.05
	7-10yr	-1.25	-5.37	0.78	-7.76	0.55	-6.63	-2.18	-7.98
	20+yr	-4.12	-8.11	4.38	-4.46	3.68	-3.72	-5.14	-10.77
China	1-3yr	1.01	-2.08	1.68	-3.86	1.82	-0.96	2.55	-3.33
	7-10yr	1.56	-1.54	2.97	-2.65	3.05	0.24	3.79	-2.16
	20+yr	3.17	0.01	6.43	0.62	5.83	2.94	7.97	1.78
EM	1-3yr	0.36	0.36	0.62	0.62	2.58	2.58	4.31	4.31
	7-10yr	0.75	0.75	0.06	0.06	3.01	3.01	2.68	2.68
	IG All	0.36	0.36	1.14	1.14	3.73	3.73	2.37	2.37
	HY All	1.41	1.41	-1.38	-1.38	2.30	2.30	7.58	7.58
Germany	1-3yr	-0.05	-0.19	0.39	1.92	0.61	3.94	-2.74	5.16
	7-10yr	-0.62	-0.75	-0.31	1.21	2.39	5.78	-10.83	-3.58
	20+yr	-2.67	-2.80	-5.26	-3.83	0.88	4.21	-25.58	-19.53
Italy	1-3yr	0.47	0.34	1.01	2.55	1.67	5.03	-0.57	7.51
	7-10yr	1.94	1.81	2.90	4.47	6.99	10.53	-2.93	4.97
	20+yr	2.73	2.59	1.40	2.94	9.10	12.70	-11.84	-4.67
Spain	1-3yr	0.02	-0.11	0.52	2.04	0.94	4.28	-2.72	5.19
	7-10yr	-0.13	-0.26	0.27	1.79	3.05	6.46	-9.35	-1.98
	20+yr	-0.11	-0.24	-2.67	-1.19	2.84	6.24	-20.28	-13.80
France	1-3yr	-0.06	-0.19	0.41	1.93	0.92	4.26	-3.00	4.89
	7-10yr	-0.48	-0.61	-0.49	1.03	2.44	5.83	-10.51	-3.24
	20+yr	-1.61	-1.74	-5.32	-3.88	0.78	4.11	-23.57	-17.36
Sweden	1-3yr	-0.03	-2.42	-0.17	-0.52	0.71	-0.13	-0.48	-3.44
	7-10yr	-1.44	-3.79	-2.91	-3.26	-0.19	-1.03	-7.43	-10.18
Australia	1-3yr	-1.00	0.95	-0.12	-4.49	0.72	0.08	0.19	-3.25
	7-10yr	-4.46	-2.58	-2.07	-6.35	2.22	1.57	-3.98	-7.28
	20+yr	-7.85	-6.04	-5.69	-9.81	1.92	1.27	-12.51	-15.51
New Zealand	1-3yr	-0.29	0.47	0.58	-3.14	1.58	-0.04	0.01	-0.74
	7-10yr	-3.48	-2.75	-2.29	-5.90	0.82	-0.79	-5.96	-6.66
	20+yr	-9.57	-8.88	-5.70	-9.18	-3.15	-4.69	-14.52	-15.16
Canada	1-3yr	-0.82	2.20	0.14	1.52	0.75	3.71	0.36	-2.30
	7-10yr	-4.80	-1.90	-3.45	-2.12	-0.36	2.57	-4.30	-6.84
	20+yr	-6.99	-4.16	-5.03	-3.72	0.51	3.47	-7.58	-10.03

Appendix - Global Bond Market Returns % (USD & LC, TR) - July 31, 2023

Inflation-Linked Bond Returns

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

		3N	1	61	VI	YT	D	12M		
		Local	USD	Local	USD	Local	USD	Local	USD	
US	1-5yr	-0.67	-0.67	1.06	1.06	1.90	1.90	-2.15	-2.15	
	5-10yr	-1.92	-1.92	-0.16	-0.16	2.41	2.41	-6.31	-6.31	
	20+yr	-3.21	-3.21	-2.82	-2.82	3.34	3.34	-14.15	-14.15	
UK	1-5yr	0.05	2.42	1.23	5.80	0.76	7.77	0.01	5.75	
	5-10yr	-0.38	1.98	0.39	4.92	2.11	9.22	-6.92	-1.59	
	20+yr	-6.94	-4.74	-13.88	-9.99	-8.41	-2.04	-35.37	-31.67	
Japan	1-5yr	1.39	-2.83	1.81	-6.81	2.31	-4.99	3.48	-2.66	
	5-10yr	1.71	-2.52	4.24	-4.59	3.07	-4.28	2.78	-3.31	
EM	1-5yr	5.32	5.47	7.94	8.91	8.89	13.10	17.15	20.19	
	5-10yr	4.91	7.17	8.74	12.27	8.50	15.05	19.59	26.23	
	20+yr	5.77	11.42	10.71	18.52	10.16	21.97	14.10	26.63	
Germany	1-5yr	0.40	0.27	1.33	2.87	1.39	4.74	-4.44	3.33	
	5-10yr	0.65	0.52	2.11	3.66	3.64	7.07	-6.59	1.00	
	20+yr	-1.07	-1.20	-0.42	1.09	5.91	9.41	-19.32	-12.76	
Italy	1-5yr	1.26	1.13	2.51	4.07	2.76	6.16	1.28	9.51	
	5-10yr	3.33	3.19	5.46	7.06	8.07	11.64	2.67	11.02	
	20+yr	6.13	5.99	7.30	8.93	17.65	21.54	-5.04	2.68	
Spain	1-5yr	0.55	0.42	1.65	3.19	1.76	5.13	-0.92	7.13	
	5-10yr	1.25	1.12	2.71	4.27	3.81	7.24	-4.33	3.45	
France	1-5yr	0.03	-0.10	1.30	2.84	1.32	4.67	-3.54	4.30	
	5-10yr	0.26	0.12	2.02	3.57	3.37	6.79	-6.31	1.31	
	20+yr	1.13	1.00	-0.08	1.44	6.41	9.93	-17.32	-10.59	
Sweden	1-5yr	0.95	-1.45	0.37	0.01	1.53	0.68	1.59	-1.43	
	5-10yr	1.61	-0.81	-0.27	-0.63	1.70	0.85	-4.97	-7.80	
Australia	1-5yr	-0.80	1.15	1.46	-2.98	3.52	2.86	3.40	-0.15	
	5-10yr	-2.55	-0.63	-0.01	-4.38	4.99	4.33	2.29	-1.22	
	20+yr	-4.43	-2.55	-5.28	-9.42	7.61	6.93	-3.87	-7.17	
New Zealand	5-10yr	-2.95	-2.21	0.45	-3.27	3.23	1.58	-0.64	-1.39	
Canada	20+yr	-5.68	-2.81	-8.29	-7.03	-7.75	-5.04	-10.34	-12.72	

Appendix - Global Bond Market Returns % (USD & LC, TR) - July 31, 2023

Global Bond Yields

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

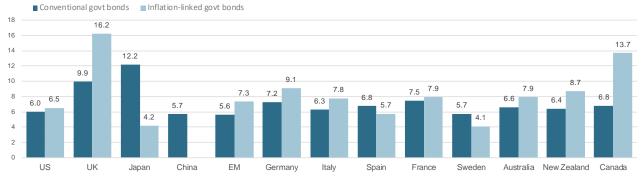
		Conve	ntional go	vernment	bonds	Inflati	on-linked	bonds	Inv Grade	High Yld
		1-3YR	3-5YR	7-10YR	20+YR	1-5YR	5-10YR	20+YR	All Mat	All Mat
US	Current	5.01	4.33	3.97	4.11	2.44	1.72	1.80	5.50	8.36
	3M Ago	4.24	3.62	3.41	3.75	1.68	1.23	1.58	5.15	8.50
	6M Ago	4.35	3.74	3.46	3.71	1.85	1.32	1.54	5.01	8.23
	12M Ago	2.93	2.78	2.66	3.19	-0.23	0.06	0.87	4.39	7.63
UK	Current	5.04	4.69	4.25	4.39	1.86	0.65	1.00		
	3M Ago	4.05	3.77	3.64	4.02	0.39	0.14	0.63		
	6M Ago	3.42	3.26	3.33	3.70	0.31	0.00	0.30		
	12M Ago	1.78	1.66	1.79	2.39	-3.22	-2.08	-0.92		
Japan	Current	-0.04	0.08	0.50	1.40	-1.70	-0.74			
	3M Ago	-0.07	0.02	0.30	1.20	-1.31	-0.63			
	6M Ago	-0.02	0.11	0.52	1.55	-1.33	-0.34			
	12M Ago	-0.11	-0.07	0.11	1.09	-1.17	-0.80			
China	Current	2.08	2.34	2.66	3.04					
	3M Ago	2.28	2.51	2.78	3.17					
	6M Ago	2.30	2.57	2.87	3.31					
	12M Ago	2.05	2.42	2.78	3.30					
EM	Current	8.62	6.78	6.47		3.05	4.07	4.88	5.93	11.51
	3M Ago	8.03	6.85	6.44		3.84	4.04	5.15	5.61	11.71
	6M Ago	7.54	6.61	6.18		3.11	3.37	5.25	5.52	10.25
	12M Ago	7.67	6.97	6.16		3.54	3.65	5.21	4.99	12.42
Germany	Current	3.09	2.60	2.41	2.53	0.60	0.07	0.01		
	3M Ago	2.72	2.35	2.25	2.37	0.16	-0.06	-0.11		
	6M Ago	2.59	2.31	2.21	2.22	0.38	0.13	-0.09		
	12M Ago	0.20	0.36	0.67	1.04	-2.37	-1.60	-1.16		
Italy	Current	3.60	3.55	3.86	4.35	1.30	1.64	1.69		
	3M Ago	3.36	3.49	3.97	4.45	0.80	1.65	1.83		
	6M Ago	3.17	3.42	3.92	4.29	1.18	1.87	1.85		
	12M Ago	1.37	2.00	2.80	3.35	-2.34	0.45	1.23		
France	Current	3.15	2.90	2.90	3.35	0.58	0.37	0.60		
	3M Ago	2.84	2.66	2.73	3.23	-0.06	0.17	0.58		
	6M Ago	2.71	2.58	2.64	3.01	0.24	0.30	0.52		
	12M Ago	0.40	0.67	1.13	1.95	-3.30	-1.52	-0.38		
Sweden	Current	3.33	2.83	2.57		0.96	0.74			
	3M Ago	2.89	2.59	2.31		0.71	0.73			
	6M Ago	2.50	2.27	2.05		-0.17	0.14			
	12M Ago	1.71	1.57	1.39		-1.66	-1.45			
Australia	Current	4.02	3.86	4.03	4.40	1.03	1.47	1.79		
	3M Ago	3.13	3.05	3.30	3.88	0.09	0.84	1.50		
	6M Ago	3.17	3.24	3.51	3.96	0.23	0.92	1.37		
	12M Ago	2.56	2.76	3.03	3.44	-0.75	0.40	1.24		
New Zealand	Current	5.21	4.80	4.70	4.87	1.94	2.39			
	3M Ago	4.89	4.15	4.08	4.23	0.95	1.61			
	6M Ago	4.67	4.18	4.11	4.41	1.28	1.79			
	12M Ago	3.28	3.28	3.40	3.75	0.07	1.03			
Canada	Current	4.76	4.02	3.56	3.33	2.11	1.80	1.69		
	3M Ago	3.81	3.09	2.82	2.93	1.12	1.06	1.32		
	6M Ago	3.92	3.14	2.91	3.00	1.29	1.13	1.16		
	12M Ago	2.96	2.71	2.61	2.79	0.48	0.51	0.97		

Appendix - Duration and Market Value (USD, Bn) as of July 31, 2023

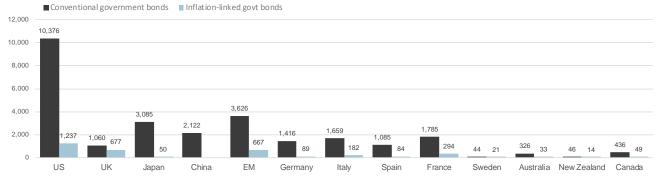
			Con	ventional g	jovernmer	Inflation-linked government bonds								
		Dura	ation		Market Value				Duration			Market Value		
	3-5YR	7-10YR	20+YR	Overall	3-5YR	7-10YR	20+YR	Total	5-10YR	20+YR	Overall	5-10YR	20+YR	Total
US	3.7	7.4	17.2	6.0	2,305.7	1,077.6	1,277.3	10,376.1	7.0	21.5	6.5	401.5	121.7	1,237.2
UK	3.5	7.4	18.6	9.9	147.2	158.9	300.9	1,060.0	6.6	27.9	16.2	132.3	256.2	676.7
Japan	4.0	8.1	23.9	12.2	353.4	357.0	677.2	3,085.2	7.1		4.2	17.7		50.2
China	3.7	7.5	17.6	5.7	474.9	329.7	252.5	2,121.6						
EM	3.5	6.9	15.9	5.6	769.0	652.8	352.5	3,625.6	5.5	13.9	7.3	141.7	172.8	666.9
Germany	3.8	7.6	20.5	7.2	297.7	236.8	161.0	1,415.6	7.3	21.9	9.1	43.3	19.4	88.6
Italy	3.7	7.3	16.2	6.3	286.4	262.9	155.6	1,659.3	8.0	26.4	7.8	56.5	5.8	181.8
Spain	3.7	7.4	17.2	6.8	205.1	192.1	108.5	1,085.1	6.8		5.7	23.0		84.2
France	3.8	7.7	20.2	7.5	314.1	305.3	210.1	1,785.4	6.8	24.6	7.9	105.2	22.0	293.8
Sweden	3.8	7.7		5.7	13.8	8.9		43.7	5.8		4.1	9.9		21.1
Australia	3.6	7.7	17.5	6.6	51.7	88.9	15.2	326.4	7.2	22.5	7.9	9.7	2.7	33.5
New Zealand	3.9	7.6	17.0	6.4	9.7	10.9	2.4	46.4	6.3		8.7	3.2		13.9
Canada	3.7	7.7	19.9	6.8	57.1	113.4	62.5	436.1	7.0	20.8	13.7	8.3	20.1	49.4

Investment grade bonds												Yield
			Duration					Duration	MktVal			
	AAA	AA	Α	BBB	Overall	AAA	AA	Α	BBB	Overall		
US	10.9	8.6	7.3	6.7	7.1	73.4	453.7	2630.7	3284.4	6442.3	4.0	1036.7
Europe	6.3	4.9	4.7	4.3	4.5	9.7	187.7	1205.3	1457.2	2859.9		
EM		5.9	4.9	5.1	5.1		44.6	221.3	326.8	592.7	3.3	190.1

Average Duration



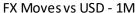
Total Market Value (USD Billions)

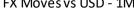


1.0

0.5

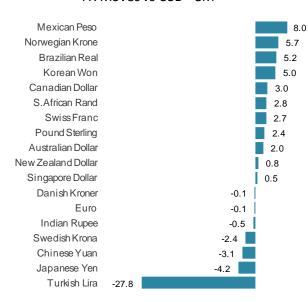
-0.3





S.African Rand 6.2 Norwegian Krone 5.9 Korean Won 3.4 Swiss Franc 3.2 Swedish Krona 28 Mexican Peso 2.7 Singapore Dollar 1.9 Japanese Yen 17 Chinese Yuan New Zealand Dollar 1.6 Brazilian Real 1.4 Australian Dollar 1.2 Pound Sterling 1.2 Euro 1.1

FX Moves vs USD - 3M



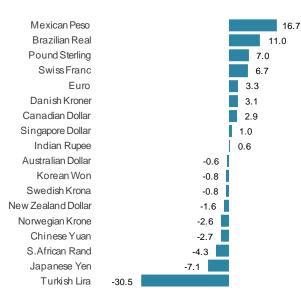
FX Moves vs USD - YTD

Danish Kroner

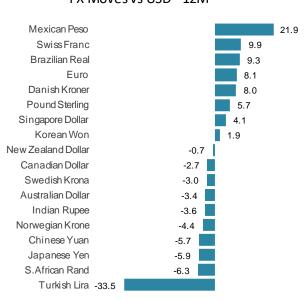
Canadian Dollar

Indian Rupee

Turkish Lira



FX Moves vs USD - 12M



Appendix - Glossary

Bond markets are based on the following indices:

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 Government Bond Index (EMGBI) for the emerging markets government bond market. Please note that over 50% of this index is invested in China

FTSE Emerging Markets Broad Bond Index (EMUSDBBI) for the emerging markets corporate bond market

FTSE ESG World Government Bond Index for the global government bond markets with an ESG tilt

FTSE Climate Risk-Adjusted World Government Bond Index (Climate WGBI) and FTSE Advanced Climate Risk-Adjusted World Government Bond Index (Advanced Climate WGBI) for each country's relative exposure to climate risk, with respect to resilience and preparedness to the risks of climate change

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



© 2023 London Stock Exchange Group plc and its applicable group undertakings (the "LSE Group"). The LSE Group includes (1) FTSE International Limited ("FTSE"), (2) Frank Russell Company ("Russell"), (3) FTSE Global Debt Capital Markets Inc. and FTSE Global Debt Capital Markets Limited (together, "FTSE Canada"), (4) FTSE Fixed Income Europe Limited ("FTSE FI Europe"), (5) FTSE Fixed Income LLC ("FTSE FI"), (6) The Yield Book Inc ("YB") and (7) Beyond Ratings S.A.S. ("BR"). All rights reserved.

FTSE Russell® is a trading name of FTSE, Russell, FTSE Canada, FTSE FI, FTSE FI Europe, YB and BR. "FTSE®", "Russell®", "FTSE Russell®", "FTSE4Good®", "ICB®", "The Yield Book®", "Beyond Ratings®" and all other trademarks and service marks used herein (whether registered or unregistered) are trademarks and/or service marks owned or licensed by the applicable member of the LSE Group or their respective licensors and are owned, or used under licence, by FTSE, Russell, FTSE Canada, FTSE FI, FTSE FI Europe, YB or BR. FTSE International Limited is authorised and regulated by the Financial Conduct Authority as a benchmark administrator.

All information is provided for information purposes only. All information and data contained in this publication is obtained by the LSE Group, from sources believed by it to be accurate and reliable. Because of the possibility of human and mechanical error as well as other factors, however, such information and data is provided "as is" without warranty of any kind. No member of the LSE Group nor their respective directors, officers, employees, partners or licensors make any claim, prediction, warranty or representation whatsoever, expressly or impliedly, either as to the accuracy, timeliness, completeness, merchantability of any information or of results to be obtained from the use of FTSE Russell products, including but not limited to indexes, data and analytics, or the fitness or suitability of the FTSE Russell products for any particular purpose to which they might be put. Any representation of historical data accessible through FTSE Russell products is provided for information purposes only and is not a reliable indicator of future performance.

No responsibility or liability can be accepted by any member of the LSE Group nor their respective directors, officers, employees, partners or licensors for (a) any loss or damage in whole or in part caused by, resulting from, or relating to any error (negligent or otherwise) or other circumstance involved in procuring, collecting, compiling, interpreting, analysing, editing, transcribing, transmitting, communicating or delivering any such information or data or from use of this document or links to this document or (b) any direct, indirect, special, consequential or incidental damages whatsoever, even if any member of the LSE Group is advised in advance of the possibility of such damages, resulting from the use of, or inability to use, such information.

No member of the LSE Group nor their respective directors, officers, employees, partners or licensors provide investment advice and nothing in this document should be taken as constituting financial or investment advice. No member of the LSE Group nor their respective directors, officers, employees, partners or licensors make any representation regarding the advisability of investing in any asset or whether such investment creates any legal or compliance risks for the investor. A decision to invest in any such asset should not be made in reliance on any information herein. Indexes cannot be invested in directly. Inclusion of an asset in an index is not a recommendation to buy, sell or hold that asset nor confirmation that any particular investor may lawfully buy, sell or hold the asset or an index containing the asset. The general information contained in this publication should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional.

contained in this publication should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional. The information contained in this report should not be considered "research" as defined in recital 28 of the Commission Delegated Directive (EU) 2017/593 of 7 April 2016 supplementing Directive 2014/65/EU of the European Parliament and of the Council ("MiFID II") and is provided for no fee.

Past performance is no guarantee of future results. Charts and graphs are provided for illustrative purposes only. Index returns shown may not represent the results of the actual trading of investable assets. Certain returns shown may reflect back-tested performance. All performance presented prior to the index inception date is back-tested performance. Back-tested performance is not actual performance, but is hypothetical. The back-test calculations are based on the same methodology that was in effect when the index was officially launched. However, back-tested data may reflect the application of the index methodology with the benefit of hindsight, and the historic calculations of an index may change from month to month based on revisions to the underlying economic data used in the calculation of the index.

This document may contain forward-looking assessments. These are based upon a number of assumptions concerning future conditions that ultimately may prove to be inaccurate. Such forward-looking assessments are subject to risks and uncertainties and may be affected by various factors that may cause actual results to differ materially. No member of the LSE Group nor their licensors assume any duty to and do not undertake to update forward-looking assessments.

No part of this information may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the applicable member of the LSE Group. Use and distribution of the LSE Group data requires a licence from FTSE, Russell, FTSE Canada, FTSE FI, FTSE FI Europe, YB, BR and/or their respective licensors.

Refinitiv content is the intellectual property of Refinitiv. Any copying, republication or redistribution of Refinitiv content, including by caching, framing or similar means, is expressly prohibited without the prior written consent of Refinitiv. Refinitiv is not liable for any errors or delays in content, or for any actions taken in reliance on any content.