

I. Yields

2a) Yields on debt securities outstanding, by category of securities

% per annum

Period	Total ¹	Bank debt securities						Corporate bonds (non-MFIs)
		Total	Mortgage Pfandbriefe	Public Pfandbriefe	Debt securities issued by special purpose credit institutions	Other bank debt securities		
2013	1.35	1.27	1.26	1.21	1.06	1.86	3.37	
2014	1.03	0.89	0.85	0.89	0.68	1.43	2.95	
2015	0.46	0.49	0.40	0.38	0.17	1.18	2.43	
2016 ²	0.11	0.28	0.15	0.16	–	0.08	2.07	
2017 ²	0.28	0.43	0.28	0.35	0.23	1.16	1.73	
2018	0.43	0.60	0.43	0.54	0.41	1.33	2.49	
2019	–	0.05	0.12	0.01	0.08	0.93	2.53	
2020 ³	–	0.19	–	0.20	–	0.26	1.75	
2021	–	0.12	–	0.15	–	0.20	0.90	
2022	1.54	1.87	1.77	1.80	1.65	2.73	3.26	
2023	2.90	3.32	3.24	3.25	3.12	4.32	4.22	
2022 July	1.54	1.87	1.76	1.78	1.64	2.83	3.73	
Aug.	1.48	1.89	1.80	1.83	1.65	2.82	3.35	
Sep.	2.26	2.71	2.62	2.65	2.44	3.78	4.30	
Oct.	2.69	3.16	3.06	3.09	2.88	4.31	4.88	
Nov.	2.56	2.98	2.86	2.87	2.73	4.10	4.41	
Dec.	2.53	2.98	2.87	2.87	2.77	3.98	4.18	
2023 Jan.	2.65	3.06	2.95	2.94	2.86	4.01	4.15	
Feb.	2.82	3.21	3.13	3.12	3.03	4.05	4.15	
Mar.	2.89	3.33	3.22	3.23	3.11	4.40	4.39	
Apr.	2.84	3.29	3.19	3.19	3.06	4.44	4.19	
May	2.82	3.26	3.15	3.17	3.04	4.36	4.17	
June	2.88	3.32	3.24	3.25	3.11	4.40	4.24	
July	2.97	3.43	3.37	3.38	3.23	4.46	4.25	
Aug.	3.01	3.44	3.37	3.38	3.25	4.43	4.27	
Sep.	3.11	3.51	3.45	3.46	3.33	4.45	4.39	
Oct.	3.25	3.66	3.58	3.60	3.48	4.60	4.56	
Nov.	3.02	3.40	3.35	3.37	3.22	4.36	4.23	
Dec.	2.52	2.91	2.87	2.87	2.73	3.85	3.63	
2024 Jan.	2.57	2.94	2.90	2.92	2.76	3.85	3.67	
Feb.	2.72	3.09	3.08	3.08	2.90	4.06	3.74	
Mar.	2.73	3.07	3.05	3.06	2.88	4.02	3.73	
Apr.	2.81	3.15	3.14	3.15	2.98	3.96	3.74	
May	2.88	3.19	3.20	3.20	3.03	3.96	3.84	
June	2.86	3.17	3.17	3.19	3.02	3.89	3.87	
2024 June ³	2.98	3.25	3.26	3.27	3.09	3.98	3.95	
4	2.90	3.19	3.19	3.17	3.03	3.92	3.89	
5	2.89	3.17	3.18	3.19	3.01	3.91	3.87	
6	2.88	3.17	3.17	3.18	3.02	3.90	3.87	
7	2.93	3.22	3.22	3.23	3.07	3.94	3.90	
10	2.99	3.29	3.28	3.30	3.13	4.00	3.98	
11	2.99	3.25	3.29	3.29	3.11	3.94	3.98	
12	2.96	3.26	3.26	3.28	3.11	3.98	3.94	
13	2.91	3.22	3.22	3.24	3.06	3.92	3.89	
14	2.77	3.12	3.12	3.13	2.97	3.84	3.79	
17	2.77	3.13	3.12	3.14	2.98	3.85	3.84	
18	2.80	3.13	3.13	3.15	2.97	3.86	3.87	
19	2.77	3.12	3.11	3.13	2.97	3.83	3.84	
20	2.81	3.14	3.14	3.15	2.98	3.85	3.85	
21	2.75	3.10	3.09	3.11	2.94	3.81	3.82	
24	2.78	3.13	3.12	3.14	2.97	3.84	3.81	
25	2.78	3.11	3.11	3.13	2.95	3.83	3.79	
26	2.80	3.14	3.14	3.15	2.98	3.85	3.81	
27	2.83	3.17	3.17	3.18	3.01	3.87	3.84	
28	2.83	3.17	3.17	3.19	3.02	3.86	3.82	
July 1	2.92	3.22	3.22	3.24	3.06	3.91	3.89	

¹ Yields for comparable categories of residual maturity, see Table I. 2b ² Sectoral reclassification of debt securities. ³ Adjustment of the scope of securities included on 1 May 2020.

I. Yields

still: 2a) Yields on debt securities outstanding, by category of securities

% p.a.

Monthly average or trading day	Public debt securities											
	Total	of which: Listed Federal securities ¹										
		All public debt securities	All listed Federal securities	of which: With residual maturities of more than...but not more than...years					8 - 15		15 - 30	
				3 - 5	5 - 8	Total	of which: 9 - 10 ²					
2013	1.35	1.33	1.33	0.41	0.41	0.94	1.63	1.57	2.37			
2014	1.03	1.03	1.02	0.22	0.22	0.64	1.24	1.16	2.01			
2015	0.46	0.42	0.41	–	0.12	0.13	0.52	0.50	1.07			
2016	0.11	0.02	0.00	–	0.51	–	0.28	0.13	0.65			
2017	0.28	0.18	0.17	–	0.51	–	0.14	0.35	0.97			
2018	0.43	0.33	0.29	–	0.32	0.04	0.40	0.40	0.95			
2019	–	0.05	–	0.19	–	0.62	–	0.27	0.21			
2020	–	0.19	–	0.40	–	0.49	–	0.49	–			
2021	–	0.12	–	0.29	–	0.68	–	0.34	–			
2022	1.54	1.21	1.08	0.87	1.00	1.17	1.14	1.28				
2023	2.90	2.60	2.48	2.50	2.40	2.48	2.43	2.56				
2022 July	1.54	1.17	1.02	0.68	0.88	1.15	1.08	1.40				
Aug.	1.48	1.13	0.97	0.71	0.86	1.07	1.03	1.26				
Sep.	2.26	1.87	1.72	1.56	1.68	1.81	1.80	1.85				
Oct.	2.69	2.28	2.12	1.94	2.05	2.22	2.19	2.31				
Nov.	2.56	2.18	2.05	2.00	2.01	2.09	2.07	2.12				
Dec.	2.53	2.19	2.07	2.09	2.06	2.10	2.09	2.02				
2023 Jan.	2.65	2.34	2.23	2.27	2.18	2.22	2.19	2.21				
Feb.	2.82	2.52	2.41	2.47	2.36	2.39	2.37	2.39				
Mar.	2.89	2.55	2.43	2.50	2.38	2.41	2.38	2.42				
Apr.	2.84	2.53	2.40	2.43	2.34	2.39	2.36	2.45				
May	2.82	2.50	2.37	2.35	2.28	2.39	2.34	2.51				
June	2.88	2.58	2.46	2.54	2.38	2.42	2.38	2.50				
July	2.97	2.67	2.55	2.68	2.49	2.49	2.46	2.53				
Aug.	3.01	2.71	2.60	2.62	2.51	2.59	2.55	2.67				
Sep.	3.11	2.82	2.71	2.73	2.61	2.71	2.66	2.82				
Oct.	3.25	2.96	2.84	2.76	2.72	2.89	2.82	3.06				
Nov.	3.02	2.75	2.64	2.58	2.51	2.67	2.60	2.85				
Dec.	2.52	2.26	2.15	2.10	2.02	2.16	2.10	2.34				
2024 Jan.	2.57	2.32	2.22	2.15	2.10	2.24	2.17	2.44				
Feb.	2.72	2.48	2.39	2.37	2.27	2.38	2.33	2.54				
Mar.	2.73	2.49	2.41	2.43	2.31	2.38	2.35	2.52				
Apr.	2.81	2.58	2.50	2.51	2.40	2.48	2.45	2.61				
May	2.88	2.66	2.58	2.62	2.49	2.55	2.52	2.68				
June	2.86	2.63	2.55	2.56	2.45	2.52	2.48	2.66				
2024 June 3	2.98	2.77	2.69	2.72	2.60	2.66	2.64	2.79				
4	2.90	2.69	2.61	2.64	2.52	2.58	2.55	2.72				
5	2.89	2.68	2.61	2.64	2.51	2.57	2.54	2.70				
6	2.88	2.67	2.59	2.63	2.50	2.55	2.52	2.69				
7	2.93	2.71	2.64	2.68	2.55	2.59	2.56	2.72				
10	2.99	2.78	2.70	2.74	2.61	2.66	2.64	2.79				
11	2.99	2.79	2.71	2.73	2.62	2.68	2.65	2.81				
12	2.96	2.73	2.65	2.68	2.56	2.62	2.58	2.76				
13	2.91	2.69	2.61	2.64	2.51	2.57	2.54	2.71				
14	2.77	2.53	2.44	2.44	2.33	2.41	2.38	2.57				
17	2.77	2.53	2.44	2.45	2.34	2.41	2.38	2.55				
18	2.80	2.56	2.47	2.49	2.37	2.44	2.41	2.58				
19	2.77	2.53	2.44	2.46	2.34	2.42	2.39	2.56				
20	2.81	2.57	2.48	2.50	2.38	2.45	2.42	2.60				
21	2.75	2.51	2.42	2.42	2.31	2.39	2.36	2.56				
24	2.78	2.55	2.46	2.45	2.35	2.44	2.40	2.60				
25	2.78	2.55	2.47	2.46	2.36	2.44	2.40	2.60				
26	2.80	2.57	2.48	2.48	2.38	2.46	2.42	2.62				
27	2.83	2.60	2.51	2.50	2.40	2.49	2.46	2.65				
28	2.83	2.59	2.50	2.49	2.40	2.49	2.45	2.65				
July 1	2.92	2.70	2.62	2.60	2.51	2.61	2.57	2.77				

¹ Bonds, 5-year notes, and Treasury notes issued by the Federal Government, its special funds and the Treuhand agency. The average residual maturities of securities included in the respective aggregates can be found in the time series database at

www.bundesbank.de > Interest rates and yields > Current yields of debt securities of domestic issuers > Current yields by residual maturity > Average residual maturities.
² Calculated as unweighted averages, with daily structural adjustments.

I. Yields

2b) Yields on debt securities outstanding, by residual maturity *

% per annum

Period	Mean residual maturity of ... years									
	More than 1 and up to 2	More than 2 and up to 3	More than 3 and up to 4	More than 4 and up to 5	More than 5 and up to 6	More than 6 and up to 7	More than 7			
							Total	of which		
							More than 7 and up to 8	More than 8 and up to 9	More than 9 and up to 10	
Debt securities, total										
2007	4.2	4.3	4.3	4.2	4.3	4.3	4.4	4.3	4.3	4.3
2008	4.1	4.0	4.0	4.1	4.1	4.2	4.3	4.1	4.2	4.2
2009	1.9	2.2	2.6	2.8	3.1	3.2	3.7	3.4	3.5	3.4
2010	1.1	1.5	1.7	2.1	2.3	2.6	3.1	2.7	2.8	2.9
2011	1.5	1.7	2.0	2.2	2.5	2.6	3.0	2.6	2.7	2.9
2012	0.4	0.5	0.7	1.0	1.2	1.3	1.9	1.4	1.5	1.7
2013	0.3	0.4	0.6	0.9	1.0	1.2	1.9	1.3	1.5	1.7
2014	0.2	0.2	0.4	0.5	0.7	0.9	1.5	1.0	1.2	1.3
2015	-	0.1	0.0	0.2	0.3	0.3	0.8	0.4	0.5	0.8
2016	-	0.4	0.3	0.2	0.1	0.0	0.4	0.0	0.3	0.4
2017	-	0.6	0.4	0.2	0.0	0.1	0.7	0.3	0.4	0.6
2018	-	0.4	0.3	0.1	0.2	0.4	0.8	0.6	0.6	0.6
2019	-	0.5	0.4	0.3	0.1	0.0	0.1	0.1	0.1	0.0
2020	1	-	0.4	0.3	0.2	0.2	-	0.2	0.3	0.2
2021	-	0.5	0.4	0.3	0.2	0.3	-	0.0	0.2	0.2
2022		1.0	1.3	1.5	1.5	1.5	1.5	1.5	1.4	1.6
2023		3.5	3.3	3.1	2.9	2.9	2.8	2.8	2.8	2.9
2022 July	0.82	1.26	1.42	1.45	1.47	1.55	1.61	1.58	1.43	1.53
Aug.	1.00	1.34	1.44	1.45	1.44	1.50	1.51	1.49	1.37	1.60
Sep.	1.88	2.24	2.34	2.32	2.30	2.29	2.19	2.26	2.14	2.38
Oct.	2.42	2.59	2.82	2.75	2.74	2.67	2.63	2.69	2.57	2.80
Nov.	2.58	2.64	2.78	2.61	2.62	2.59	2.46	2.53	2.44	2.60
Dec.	2.66	2.74	2.80	2.62	2.60	2.61	2.40	2.50	2.44	2.55
2023 Jan.	2.98	2.96	2.95	2.70	2.74	2.65	2.53	2.56	2.59	2.61
Feb.	3.16	3.12	3.12	2.86	2.87	2.82	2.69	2.71	2.73	2.83
Mar.	3.25	3.20	3.24	2.95	2.93	2.90	2.74	2.77	2.75	2.95
Apr.	3.25	3.19	3.14	2.90	2.87	2.84	2.73	2.73	2.70	2.85
May	3.32	3.13	3.06	2.83	2.81	2.80	2.74	2.69	2.69	2.82
June	3.58	3.37	3.22	2.97	2.92	2.89	2.75	2.72	2.75	2.82
July	3.78	3.52	3.31	3.07	3.07	2.99	2.80	2.83	2.84	2.85
Aug.	3.70	3.41	3.25	3.05	3.06	2.99	2.91	2.88	2.94	3.00
Sep.	3.80	3.50	3.32	3.15	3.12	3.07	3.03	2.97	3.07	3.08
Oct.	3.76	3.55	3.36	3.26	3.22	3.21	3.23	3.12	3.26	3.25
Nov.	3.60	3.38	3.10	3.02	3.01	2.99	3.00	2.90	3.00	2.99
Dec.	3.23	2.88	2.60	2.50	2.52	2.49	2.50	2.40	2.51	2.48
2024 Jan.	3.28	2.89	2.59	2.57	2.54	2.51	2.58	2.55	2.56	2.54
Feb.	3.43	3.09	2.80	2.74	2.72	2.65	2.70	2.68	2.66	2.76
Mar.	3.48	3.15	2.84	2.77	2.73	2.68	2.68	2.67	2.63	2.78
Apr.	3.49	3.20	2.90	2.85	2.81	2.77	2.76	2.73	2.72	2.85
May	3.45	3.24	3.00	2.95	2.91	2.82	2.82	2.80	2.79	2.89
June	3.37	3.17	2.95	2.91	2.91	2.77	2.81	2.79	2.80	2.84
2024 June 3	3.49	3.30	3.07	3.04	3.03	2.89	2.92	2.91	2.91	2.96
4	3.44	3.24	3.00	2.97	2.95	2.82	2.85	2.83	2.83	2.89
5	3.44	3.23	3.00	2.96	2.94	2.80	2.84	2.82	2.82	2.87
6	3.42	3.22	2.99	2.95	2.94	2.79	2.83	2.81	2.81	2.86
7	3.46	3.27	3.04	3.00	2.98	2.84	2.86	2.85	2.85	2.91
10	3.49	3.32	3.10	3.06	3.05	2.91	2.94	2.92	2.93	2.98
11	3.47	3.30	3.07	3.05	3.04	2.89	2.94	2.91	2.93	2.97
12	3.46	3.28	3.05	3.02	3.01	2.87	2.90	2.88	2.89	2.94
13	3.42	3.24	3.01	2.97	2.97	2.82	2.86	2.84	2.85	2.88
14	3.31	3.09	2.86	2.83	2.83	2.67	2.73	2.70	2.72	2.76
17	3.30	3.10	2.87	2.84	2.84	2.69	2.72	2.72	2.73	2.76
18	3.32	3.14	2.90	2.86	2.86	2.70	2.75	2.74	2.75	2.78
19	3.31	3.11	2.87	2.83	2.84	2.68	2.73	2.72	2.73	2.76
20	3.33	3.11	2.90	2.86	2.87	2.71	2.76	2.75	2.75	2.79
21	3.28	3.05	2.84	2.80	2.81	2.66	2.71	2.69	2.70	2.74
24	3.30	3.07	2.86	2.81	2.84	2.69	2.75	2.73	2.73	2.78
25	3.30	3.07	2.86	2.81	2.84	2.69	2.75	2.72	2.73	2.77
26	3.30	3.09	2.88	2.83	2.86	2.71	2.77	2.75	2.75	2.79
27	3.31	3.09	2.90	2.85	2.88	2.75	2.80	2.78	2.78	2.82
28	3.29	3.09	2.89	2.85	2.88	2.74	2.80	2.77	2.78	2.82
July 1	3.36	3.16	2.97	2.93	2.97	2.86	2.90	2.86	2.87	2.90

* Only bearer bonds by residents with a maximum maturity as per the terms of issue of more than 4 years are included. 1 Adjustment of the scope of securities included on 1 May 2020.

I. Yields

still: 2b) Yields on debt securities outstanding, by residual maturity *

% per annum

Period	Mean residual maturity of ... years									
	More than 1 and up to 2	More than 2 and up to 3	More than 3 and up to 4	More than 4 and up to 5	More than 5 and up to 6	More than 6 and up to 7	More than 7			
							Total	of which		
							More than 7 and up to 8	More than 8 and up to 9	More than 9 and up to 10	
Bank debt securities										
2007	4.4	4.4	4.4	4.4	4.4	4.5	4.5	4.5	4.5	4.5
2008	4.6	4.5	4.4	4.4	4.5	4.5	4.7	4.6	4.6	4.7
2009	2.4	2.7	3.1	3.3	3.6	3.8	4.1	4.0	4.2	4.0
2010	1.5	1.9	2.2	2.4	2.7	2.9	3.2	3.1	3.1	3.3
2011	2.0	2.3	2.5	2.8	3.1	3.0	3.4	3.1	3.5	3.5
2012	0.8	1.0	1.2	1.4	1.6	1.7	2.2	2.1	2.2	2.1
2013	0.5	0.7	0.9	1.1	1.2	1.5	1.9	1.8	1.8	2.1
2014	0.3	0.4	0.5	0.7	0.9	1.1	1.5	1.2	1.4	1.7
2015	0.1	0.1	0.1	0.3	0.5	0.5	1.0	0.8	0.9	1.2
2016	–	0.1	–	0.2	–	0.1	0.3	0.4	0.8	1.0
2017	–	0.3	–	0.2	–	0.3	0.4	0.9	0.9	0.9
2018	–	0.2	–	0.0	–	0.4	0.7	1.0	0.9	1.0
2019	–	0.2	–	0.1	–	0.1	0.3	0.4	0.3	0.3
2020	1	–	0.2	–	0.3	–	0.1	–	0.0	0.1
2021	–	0.5	–	0.4	–	0.2	–	0.1	0.0	0.2
2022	1.2	1.5	1.7	1.8	1.9	1.8	2.0	1.9	2.0	1.9
2023	3.6	3.5	3.4	3.3	3.3	3.3	3.3	3.3	3.2	3.2
2022 July	1.06	1.33	1.65	1.73	1.85	1.83	2.10	2.00	2.05	2.00
Aug.	1.29	1.50	1.77	1.78	1.89	1.82	2.04	2.01	2.00	1.93
Sep.	2.24	2.40	2.75	2.65	2.73	2.65	2.73	2.71	2.76	2.64
Oct.	2.62	2.80	3.16	3.10	3.19	3.15	3.19	3.14	3.25	3.13
Nov.	2.76	2.79	3.03	2.96	2.97	2.97	2.97	2.96	3.03	2.89
Dec.	2.93	2.90	3.07	2.98	2.98	2.96	2.94	2.98	3.00	2.86
2023 Jan.	3.15	3.07	3.17	3.05	3.04	3.02	3.03	3.05	3.06	2.95
Feb.	3.31	3.29	3.33	3.20	3.16	3.18	3.18	3.21	3.21	3.07
Mar.	3.43	3.46	3.49	3.34	3.26	3.30	3.27	3.35	3.26	3.15
Apr.	3.46	3.47	3.44	3.30	3.21	3.28	3.24	3.31	3.21	3.11
May	3.48	3.46	3.33	3.30	3.19	3.21	3.22	3.23	3.18	3.11
June	3.69	3.63	3.47	3.41	3.27	3.24	3.23	3.31	3.16	3.12
July	3.81	3.78	3.58	3.53	3.41	3.34	3.32	3.42	3.25	3.24
Aug.	3.74	3.71	3.51	3.50	3.41	3.37	3.38	3.43	3.31	3.31
Sep.	3.80	3.79	3.56	3.56	3.50	3.42	3.48	3.57	3.40	3.42
Oct.	3.86	3.81	3.66	3.66	3.65	3.57	3.71	3.77	3.60	3.63
Nov.	3.70	3.57	3.41	3.38	3.42	3.31	3.45	3.52	3.32	3.37
Dec.	3.31	3.08	2.91	2.87	2.91	2.85	2.96	2.97	2.83	2.92
2024 Jan.	3.33	3.09	2.90	2.90	2.94	2.89	3.00	2.99	2.90	2.97
Feb.	3.56	3.32	3.13	3.05	3.10	3.02	3.11	3.10	3.00	3.10
Mar.	3.62	3.36	3.14	3.04	3.08	3.00	3.05	3.03	2.94	3.02
Apr.	3.64	3.40	3.21	3.12	3.16	3.06	3.14	3.13	3.03	3.14
May	3.66	3.39	3.29	3.18	3.17	3.13	3.17	3.14	3.07	3.20
June	3.57	3.34	3.25	3.14	3.13	3.15	3.17	3.09	3.09	3.26
2024 June	3	3.70	3.43	3.34	3.24	3.23	3.21	3.23	3.20	3.27
4	3.64	3.37	3.27	3.17	3.15	3.14	3.17	3.13	3.08	3.21
5	3.64	3.36	3.27	3.15	3.12	3.15	3.16	3.08	3.07	3.25
6	3.63	3.35	3.26	3.15	3.12	3.15	3.16	3.08	3.07	3.25
7	3.67	3.40	3.31	3.21	3.17	3.20	3.20	3.12	3.12	3.29
10	3.70	3.45	3.37	3.27	3.23	3.27	3.27	3.20	3.19	3.36
11	3.65	3.42	3.32	3.25	3.20	3.20	3.24	3.15	3.15	3.32
12	3.67	3.43	3.34	3.25	3.21	3.25	3.25	3.17	3.17	3.34
13	3.59	3.40	3.29	3.19	3.18	3.20	3.21	3.13	3.13	3.31
14	3.52	3.30	3.19	3.09	3.08	3.11	3.13	3.04	3.05	3.23
17	3.51	3.31	3.20	3.09	3.09	3.12	3.14	3.05	3.05	3.23
18	3.53	3.31	3.21	3.09	3.09	3.11	3.13	3.05	3.05	3.23
19	3.52	3.30	3.20	3.08	3.07	3.10	3.12	3.04	3.04	3.23
20	3.52	3.31	3.21	3.10	3.09	3.12	3.14	3.06	3.05	3.24
21	3.49	3.27	3.16	3.05	3.06	3.09	3.11	3.02	3.02	3.21
24	3.51	3.28	3.19	3.08	3.08	3.11	3.14	3.05	3.05	3.24
25	3.48	3.27	3.17	3.06	3.06	3.09	3.12	3.03	3.03	3.23
26	3.49	3.28	3.17	3.10	3.10	3.13	3.16	3.07	3.06	3.26
27	3.51	3.28	3.21	3.13	3.13	3.15	3.19	3.10	3.10	3.29
28	3.49	3.28	3.22	3.14	3.13	3.16	3.20	3.10	3.10	3.30
July 1	3.53	3.30	3.26	3.18	3.18	3.20	3.23	3.12	3.15	3.35

* Only bearer bonds by residents with a maximum maturity as per the terms of issue of more than 4 years are included. 1 Adjustment of the scope of securities included on 1 May 2020.

I. Yields

still: 2b) Yields on debt securities outstanding, by residual maturity *

% per annum

Period	Mean residual maturity of ... years										
	More than 1 and up to 2	More than 2 and up to 3	More than 3 and up to 4	More than 4 and up to 5	More than 5 and up to 6	More than 6 and up to 7	More than 7				
							Total	of which			
							More than 7 and up to 8	More than 8 and up to 9	More than 9 and up to 10		
Mortgage Pfandbriefe											
2007	4.4	4.4	4.4	4.4	4.4	4.5	4.5	4.5	4.5	4.5	
2008	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.5	4.6	4.7	
2009	2.4	2.7	3.0	3.3	3.4	3.6	4.0	4.0	4.1	4.1	
2010	1.5	1.7	2.1	2.3	2.6	2.9	3.2	3.1	3.2	3.3	
2011	1.9	2.2	2.5	2.7	2.9	3.1	3.4	3.2	3.3	3.5	
2012	0.9	1.0	1.2	1.4	1.7	1.8	2.2	2.1	2.1	2.3	
2013	0.5	0.6	0.9	1.1	1.4	1.5	1.9	1.7	1.9	2.0	
2014	0.3	0.4	0.6	0.7	0.9	1.0	1.4	1.2	1.3	1.6	
2015	0.1	0.1	0.1	0.2	0.3	0.5	0.7	0.6	0.8	0.7	
2016	-	0.1	-	0.1	0.0	0.1	0.4	0.3	0.3	0.4	
2017	-	0.2	-	0.2	0.1	0.2	0.3	0.4	0.6	0.7	
2018	-	0.3	-	0.1	0.2	0.4	0.5	0.7	0.7	0.9	
2019	-	0.3	-	0.3	-	0.1	0.0	0.3	0.1	0.3	
2020	1	-	0.3	-	0.3	-	0.2	-	0.1	-	0.1
2021	-	0.5	-	0.4	-	0.3	-	0.2	0.1	-	0.0
2022	1.3	1.4	1.6	1.7	1.7	1.8	1.9	1.9	1.9	1.9	
2023	3.6	3.4	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
2022 July	1.17	1.28	1.44	1.60	1.71	1.83	2.03	1.90	1.94	2.05	
Aug.	1.42	1.47	1.56	1.71	1.77	1.85	1.99	1.89	1.91	1.99	
Sep.	2.35	2.34	2.46	2.59	2.60	2.66	2.72	2.68	2.66	2.71	
Oct.	2.73	2.72	2.91	3.01	3.04	3.11	3.16	3.11	3.12	3.17	
Nov.	2.81	2.70	2.81	2.85	2.84	2.88	2.91	2.86	2.88	2.91	
Dec.	2.97	2.81	2.88	2.88	2.86	2.87	2.87	2.86	2.85	2.88	
2023 Jan.	3.20	2.98	2.99	2.97	2.94	2.92	2.93	2.91	2.90	2.93	
Feb.	3.37	3.16	3.19	3.15	3.11	3.09	3.09	3.08	3.09	3.07	
Mar.	3.48	3.23	3.31	3.23	3.22	3.19	3.18	3.18	3.18	3.15	
Apr.	3.54	3.17	3.27	3.17	3.17	3.15	3.16	3.15	3.15	3.12	
May	3.62	3.19	3.21	3.13	3.13	3.13	3.16	3.12	3.13	3.13	
June	3.78	3.40	3.39	3.26	3.21	3.19	3.16	3.15	3.14	3.13	
July	3.75	3.70	3.53	3.40	3.34	3.31	3.25	3.26	3.24	3.24	
Aug.	3.67	3.61	3.47	3.37	3.35	3.34	3.33	3.29	3.30	3.32	
Sep.	3.71	3.65	3.52	3.43	3.42	3.41	3.42	3.37	3.40	3.42	
Oct.	3.73	3.69	3.59	3.56	3.56	3.56	3.64	3.55	3.60	3.64	
Nov.	3.61	3.47	3.36	3.33	3.32	3.31	3.40	3.31	3.35	3.39	
Dec.	3.20	2.99	2.87	2.84	2.84	2.83	2.93	2.83	2.86	2.89	
2024 Jan.	3.27	2.98	2.90	2.86	2.89	2.87	2.97	2.89	2.90	2.96	
Feb.	3.48	3.23	3.13	3.06	3.04	3.01	3.08	3.02	3.00	3.06	
Mar.	3.54	3.30	3.14	3.03	3.03	2.99	3.01	2.99	2.94	2.98	
Apr.	3.55	3.38	3.24	3.12	3.12	3.08	3.11	3.09	3.03	3.06	
May	3.60	3.44	3.27	3.21	3.18	3.13	3.14	3.12	3.10	3.11	
June	3.52	3.39	3.22	3.19	3.16	3.13	3.14	3.11	3.10	3.13	
2024 June 3	3.64	3.49	3.32	3.28	3.25	3.20	3.20	3.18	3.16	3.17	
4	3.58	3.43	3.25	3.21	3.17	3.13	3.14	3.11	3.09	3.11	
5	3.58	3.42	3.24	3.20	3.16	3.12	3.13	3.10	3.08	3.10	
6	3.54	3.41	3.23	3.19	3.15	3.11	3.12	3.09	3.08	3.10	
7	3.59	3.45	3.27	3.24	3.21	3.16	3.17	3.14	3.13	3.14	
10	3.62	3.51	3.34	3.30	3.27	3.24	3.24	3.22	3.20	3.22	
11	3.60	3.51	3.34	3.32	3.29	3.25	3.25	3.23	3.21	3.25	
12	3.60	3.49	3.31	3.28	3.25	3.21	3.22	3.19	3.17	3.20	
13	3.56	3.44	3.27	3.23	3.20	3.16	3.18	3.15	3.13	3.17	
14	3.47	3.34	3.17	3.13	3.11	3.06	3.09	3.05	3.04	3.07	
17	3.48	3.32	3.17	3.13	3.10	3.07	3.10	3.06	3.05	3.09	
18	3.49	3.35	3.18	3.14	3.11	3.08	3.10	3.07	3.06	3.09	
19	3.47	3.33	3.17	3.12	3.10	3.07	3.09	3.05	3.04	3.08	
20	3.48	3.35	3.19	3.15	3.12	3.09	3.11	3.08	3.06	3.10	
21	3.44	3.30	3.14	3.10	3.08	3.04	3.07	3.03	3.02	3.06	
24	3.45	3.31	3.16	3.13	3.11	3.08	3.11	3.07	3.06	3.10	
25	3.44	3.30	3.15	3.12	3.09	3.07	3.10	3.06	3.04	3.08	
26	3.45	3.32	3.17	3.14	3.12	3.10	3.13	3.08	3.08	3.11	
27	3.45	3.34	3.19	3.17	3.15	3.13	3.16	3.12	3.11	3.14	
28	3.45	3.34	3.20	3.18	3.16	3.14	3.17	3.12	3.12	3.16	
July 1	3.50	3.38	3.25	3.23	3.21	3.18	3.22	3.17	3.17	3.20	

* Only bearer bonds by residents with a maximum maturity as per the terms of issue of more than 4 years are included. 1 Adjustment of the scope of securities included on 1 May 2020.

I. Yields

still: 2b) Yields on debt securities outstanding, by residual maturity *

% per annum

Period	Mean residual maturity of ... years												
	More than 1 and up to 2	More than 2 and up to 3	More than 3 and up to 4	More than 4 and up to 5	More than 5 and up to 6	More than 6 and up to 7	More than 7						
							Total	of which					
							More than 7 and up to 8	More than 8 and up to 9	More than 9 and up to 10				
Public Pfandbriefe													
2007	4.3	4.4	4.4	4.4	4.4	4.4	4.5	4.5	4.5	4.5			
2008	4.6	4.4	4.4	4.5	4.5	4.5	4.6	4.5	4.6	4.7			
2009	2.3	2.6	3.0	3.3	3.5	3.8	4.1	3.8	4.5	4.1			
2010	1.5	1.8	2.2	2.4	2.6	2.8	3.2	3.1	3.1	3.3			
2011	2.0	2.3	2.5	2.8	2.9	3.2	3.4	3.2	3.3	3.5			
2012	0.8	0.9	1.2	1.4	1.7	1.9	2.3	2.1	2.3	2.4			
2013	0.5	0.7	0.8	1.1	1.4	1.6	2.1	1.9	1.9	1.9			
2014	0.3	0.4	0.5	0.7	0.9	1.1	1.5	1.3	1.3	1.5			
2015	0.0	0.1	0.2	0.2	0.3	0.4	0.8	0.6	0.7	0.8			
2016	–	0.1	–	0.1	–	0.0	0.1	0.5	0.3	0.4			
2017	–	0.2	–	0.1	–	0.1	0.2	0.7	0.5	0.7			
2018	–	0.2	–	0.1	–	0.2	0.4	0.6	0.6	0.7			
2019	–	0.3	–	0.2	–	0.1	–	0.0	0.1	0.3			
2020	1	–	0.3	–	0.3	–	0.2	–	0.2	–	0.1	–	0.1
2021	–	0.5	–	0.4	–	0.3	–	0.2	–	0.1	–	0.0	0.1
2022	1.3	1.6	1.6	1.7	1.8	1.8	2.0	1.8	1.9	2.0			
2023	3.7	3.4	3.3	3.2	3.2	3.2	3.3	3.2	3.2	3.2			
2022 July	1.19	1.45	1.44	1.63	1.72	1.79	2.07	1.87	1.98	2.12			
Aug.	1.41	1.66	1.63	1.70	1.79	1.82	2.03	1.88	1.97	2.02			
Sep.	2.37	2.61	2.54	2.59	2.63	2.66	2.74	2.66	2.74	2.73			
Oct.	2.81	2.94	2.98	2.99	3.05	3.12	3.20	3.11	3.23	3.19			
Nov.	2.89	2.90	2.87	2.81	2.83	2.87	2.95	2.87	2.90	2.92			
Dec.	3.06	3.05	2.93	2.85	2.85	2.85	2.88	2.85	2.85	2.87			
2023 Jan.	3.28	3.16	2.99	2.91	2.92	2.90	2.94	2.90	2.90	2.91			
Feb.	3.48	3.32	3.19	3.11	3.10	3.08	3.10	3.08	3.06	2.97			
Mar.	3.59	3.38	3.30	3.24	3.21	3.18	3.21	3.19	3.15	3.14			
Apr.	3.51	3.31	3.25	3.18	3.16	3.14	3.19	3.14	3.11	3.12			
May	3.65	3.35	3.21	3.14	3.12	3.10	3.18	3.12	3.10	3.09			
June	3.89	3.58	3.39	3.26	3.19	3.15	3.19	3.17	3.11	3.10			
July	4.02	3.72	3.53	3.40	3.33	3.28	3.29	3.29	3.21	3.24			
Aug.	3.91	3.62	3.45	3.38	3.34	3.30	3.37	3.36	3.25	3.32			
Sep.	3.95	3.67	3.51	3.45	3.44	3.37	3.47	3.38	3.36	3.41			
Oct.	3.95	3.71	3.59	3.56	3.58	3.54	3.69	3.56	3.56	3.65			
Nov.	3.74	3.50	3.36	3.32	3.31	3.29	3.45	3.32	3.31	3.39			
Dec.	3.31	3.02	2.87	2.83	2.81	2.79	2.96	2.82	2.82	2.88			
2024 Jan.	3.27	2.98	2.88	2.88	2.85	2.92	3.01	2.88	2.89	2.95			
Feb.	3.43	3.15	3.04	3.09	3.00	3.12	3.13	3.00	3.01	3.05			
Mar.	3.49	3.19	3.07	3.11	2.98	2.98	3.07	2.97	2.96	3.01			
Apr.	3.52	3.30	3.18	3.21	3.08	3.06	3.15	3.06	3.05	3.09			
May	3.59	3.39	3.26	3.24	3.14	3.13	3.19	3.11	3.09	3.12			
June	3.53	3.34	3.25	3.16	3.13	3.13	3.19	3.11	3.09	3.13			
2024 June 3	3.63	3.44	3.36	3.26	3.20	3.24	3.26	3.21	3.16	3.18			
4	3.58	3.38	3.21	3.19	3.13	3.13	3.15	3.12	3.09	3.11			
5	3.58	3.37	3.27	3.18	3.12	3.13	3.17	3.11	3.08	3.10			
6	3.57	3.36	3.27	3.16	3.12	3.12	3.17	3.10	3.08	3.10			
7	3.61	3.41	3.32	3.20	3.17	3.17	3.21	3.14	3.12	3.14			
10	3.64	3.46	3.38	3.27	3.25	3.23	3.29	3.22	3.19	3.22			
11	3.69	3.44	3.32	3.27	3.25	3.17	3.29	3.19	3.19	3.23			
12	3.62	3.44	3.36	3.24	3.21	3.22	3.27	3.20	3.17	3.19			
13	3.56	3.39	3.31	3.21	3.17	3.17	3.23	3.16	3.13	3.16			
14	3.48	3.28	3.20	3.10	3.06	3.08	3.13	3.06	3.03	3.06			
17	3.48	3.28	3.20	3.11	3.08	3.06	3.15	3.06	3.04	3.08			
18	3.49	3.30	3.21	3.12	3.08	3.09	3.15	3.08	3.06	3.07			
19	3.48	3.28	3.19	3.10	3.07	3.06	3.14	3.04	3.03	3.07			
20	3.49	3.29	3.22	3.12	3.09	3.09	3.16	3.08	3.06	3.08			
21	3.45	3.25	3.16	3.07	3.04	3.05	3.12	3.03	3.01	3.05			
24	3.46	3.27	3.19	3.10	3.08	3.08	3.16	3.06	3.05	3.09			
25	3.44	3.25	3.18	3.09	3.06	3.07	3.14	3.07	3.02	3.10			
26	3.46	3.27	3.20	3.11	3.09	3.09	3.17	3.07	3.05	3.13			
27	3.47	3.30	3.22	3.14	3.12	3.13	3.20	3.11	3.08	3.16			
28	3.36	3.30	3.23	3.14	3.13	3.13	3.21	3.11	3.10	3.17			
July 1	3.51	3.33	3.28	3.18	3.18	3.17	3.26	3.16	3.14	3.21			

* Only bearer bonds by residents with a maximum maturity as per the terms of issue of more than 4 years are included. 1 Adjustment of the scope of securities included on 1 May 2020.

I. Yields

still: 2b) Yields on debt securities outstanding, by residual maturity *

% per annum

Period	Mean residual maturity of ... years									
	More than 1 and up to 2	More than 2 and up to 3	More than 3 and up to 4	More than 4 and up to 5	More than 5 and up to 6	More than 6 and up to 7	More than 7			
							Total	of which		
							More than 7 and up to 8	More than 8 and up to 9	More than 9 and up to 10	
Public debt securities										
2007	4.1	4.1	4.2	4.2	4.2	4.2	4.3	4.2	4.2	4.3
2008	3.7	3.7	3.8	3.8	3.8	3.9	4.0	4.0	4.1	4.1
2009	1.4	1.8	2.2	2.5	2.7	2.9	3.7	3.1	3.3	3.3
2010	0.8	1.1	1.5	1.8	2.1	2.3	3.1	2.5	2.7	2.8
2011	1.1	1.4	1.7	1.9	2.2	2.3	2.9	2.4	2.6	2.7
2012	0.2	0.3	0.4	0.6	0.9	1.1	1.9	1.2	1.4	1.6
2013	0.2	0.3	0.4	0.6	0.8	1.0	1.9	1.2	1.4	1.6
2014	0.1	0.1	0.2	0.4	0.5	0.7	1.5	0.9	1.1	1.2
2015	-	0.2	-	0.1	-	0.1	0.2	0.7	0.3	0.6
2016	-	0.6	-	0.5	-	0.3	-	0.2	0.1	0.2
2017	-	0.7	-	0.6	-	0.4	-	0.2	0.1	0.4
2018	-	0.6	-	0.5	-	0.3	-	0.0	0.2	0.4
2019	-	0.6	-	0.6	-	0.5	-	0.4	0.3	0.2
2020	1	-	0.6	-	0.7	-	0.6	-	0.5	0.4
2021	-	0.7	-	0.7	-	0.6	-	0.5	0.4	0.3
2022		0.7	0.9	1.0	1.0	1.1	1.1	1.3	1.2	1.3
2023		3.1	2.8	2.7	2.6	2.5	2.6	2.5	2.5	2.6
2022 July	0.42	0.71	0.74	0.88	0.93	1.04	1.39	1.12	1.13	1.19
Aug.	0.61	0.84	0.81	0.91	0.94	1.01	1.30	1.08	1.06	1.21
Sep.	1.42	1.70	1.66	1.76	1.78	1.82	1.96	1.86	1.82	1.96
Oct.	1.91	2.05	2.08	2.16	2.14	2.20	2.38	2.26	2.23	2.34
Nov.	2.14	2.17	2.13	2.12	2.11	2.15	2.23	2.16	2.12	2.19
Dec.	2.25	2.30	2.23	2.19	2.16	2.19	2.19	2.18	2.16	2.20
2023 Jan.	2.64	2.56	2.42	2.33	2.30	2.29	2.33	2.28	2.26	2.29
Feb.	2.88	2.76	2.64	2.52	2.49	2.46	2.50	2.45	2.43	2.47
Mar.	2.94	2.80	2.68	2.56	2.52	2.50	2.54	2.48	2.45	2.51
Apr.	2.92	2.72	2.62	2.49	2.47	2.47	2.54	2.43	2.43	2.50
May	2.93	2.65	2.55	2.41	2.41	2.41	2.55	2.38	2.41	2.48
June	3.21	2.91	2.75	2.58	2.53	2.50	2.57	2.45	2.45	2.51
July	3.39	3.09	2.88	2.70	2.66	2.61	2.62	2.56	2.55	2.57
Aug.	3.27	2.97	2.81	2.67	2.66	2.63	2.73	2.60	2.63	2.69
Sep.	3.38	3.06	2.90	2.76	2.74	2.72	2.85	2.69	2.75	2.81
Oct.	3.36	3.04	2.92	2.82	2.83	2.83	3.05	2.84	2.91	2.98
Nov.	3.23	2.90	2.71	2.63	2.62	2.63	2.83	2.61	2.68	2.73
Dec.	2.85	2.44	2.23	2.15	2.14	2.14	2.33	2.12	2.18	2.23
2024 Jan.	2.91	2.46	2.26	2.21	2.19	2.19	2.42	2.22	2.25	2.28
Feb.	3.03	2.67	2.47	2.40	2.37	2.37	2.54	2.37	2.38	2.46
Mar.	3.09	2.74	2.54	2.45	2.40	2.39	2.53	2.39	2.39	2.50
Apr.	3.07	2.80	2.61	2.54	2.50	2.48	2.62	2.48	2.48	2.60
May	3.13	2.90	2.71	2.64	2.60	2.56	2.68	2.56	2.56	2.65
June	3.07	2.83	2.66	2.59	2.56	2.53	2.66	2.53	2.54	2.59
2024 June	3	3.20	2.98	2.81	2.74	2.70	2.67	2.79	2.67	2.73
4	3.15	2.92	2.73	2.66	2.62	2.59	2.71	2.58	2.59	2.65
5	3.15	2.91	2.74	2.65	2.61	2.58	2.70	2.57	2.59	2.63
6	3.13	2.90	2.72	2.65	2.60	2.57	2.68	2.56	2.57	2.62
7	3.17	2.95	2.77	2.69	2.65	2.62	2.72	2.61	2.62	2.66
10	3.21	2.99	2.83	2.76	2.72	2.68	2.79	2.67	2.69	2.73
11	3.20	2.99	2.82	2.76	2.73	2.69	2.81	2.69	2.71	2.75
12	3.17	2.94	2.77	2.71	2.67	2.63	2.76	2.63	2.65	2.68
13	3.14	2.90	2.74	2.66	2.62	2.59	2.71	2.59	2.59	2.64
14	3.00	2.71	2.56	2.48	2.45	2.42	2.57	2.43	2.44	2.50
17	2.98	2.71	2.56	2.49	2.46	2.43	2.56	2.44	2.44	2.50
18	3.02	2.77	2.60	2.52	2.49	2.45	2.59	2.46	2.47	2.52
19	3.00	2.74	2.56	2.49	2.46	2.43	2.57	2.44	2.45	2.49
20	3.02	2.75	2.60	2.53	2.50	2.47	2.60	2.48	2.48	2.53
21	2.95	2.70	2.53	2.46	2.43	2.40	2.55	2.41	2.42	2.47
24	2.98	2.72	2.55	2.49	2.47	2.44	2.60	2.45	2.46	2.51
25	2.99	2.73	2.57	2.50	2.47	2.45	2.60	2.45	2.47	2.51
26	3.00	2.75	2.58	2.51	2.49	2.47	2.61	2.47	2.49	2.53
27	2.99	2.76	2.60	2.53	2.51	2.50	2.65	2.50	2.52	2.56
28	2.98	2.75	2.59	2.53	2.51	2.49	2.64	2.49	2.52	2.56
July 1	3.06	2.85	2.69	2.63	2.62	2.59	2.75	2.60	2.62	2.67

* Only bearer bonds by residents with a maximum maturity as per the terms of issue of more than 4 years are included. 1 Adjustment of the scope of securities included on 1 May 2020.

I. Yields

2c) Yields on listed Federal securities outstanding - average, highest and lowest rates

% per annum

Period	Total			of which:								
	Average rate	Lowest rate 1	Highest rate 2	Residual maturity of more than 3 an up to 5 years			Residual maturity of more than 5 an up to 8 years			Residual maturity of more than 8 an up to 15 years		
				Average rate	Lowest rate	Highest rate	Average rate	Lowest rate	Highest rate	Average rate	Lowest rate	Highest rate
2007	4.24	3.91	4.70	4.13	3.75	4.63	4.18	3.85	4.67	4.21	3.86	4.68
2008	3.99	2.81	4.78	3.68	2.26	4.78	3.83	2.60	4.72	3.98	2.89	4.67
2009	3.03	2.71	3.40	2.18	1.86	2.54	2.79	2.50	3.22	3.27	2.93	3.68
2010	2.43	1.81	3.11	1.50	1.02	2.25	2.21	1.63	2.92	2.73	2.05	3.38
2011	2.39	1.46	3.26	1.60	0.53	2.56	2.17	1.16	3.10	2.59	1.60	3.46
2012	1.27	0.92	1.72	0.36	0.08	0.78	0.93	0.58	1.43	1.47	1.00	1.96
2013	1.33	0.98	1.67	0.41	0.11	0.74	0.94	0.53	1.37	1.63	1.17	2.07
2014	1.02	0.48	1.65	0.22	- 0.06	0.71	0.64	0.14	1.35	1.24	0.55	2.03
2015	0.41	0.05	0.80	- 0.12	- 0.31	0.07	- 0.13	- 0.12	0.50	0.52	0.06	1.03
2016	0.00	- 0.29	0.46	- 0.51	- 0.70	- 0.17	- 0.28	- 0.53	0.14	0.13	- 0.22	0.65
2017	0.17	- 0.06	0.37	- 0.51	- 0.76	- 0.31	- 0.14	- 0.38	0.06	0.35	0.15	0.56
2018	0.29	0.06	0.55	- 0.32	- 0.55	- 0.12	- 0.04	- 0.21	0.33	0.40	0.15	0.75
2019	- 0.26	- 0.73	0.13	- 0.62	- 0.98	- 0.39	- 0.47	- 0.91	- 0.14	- 0.27	- 0.75	0.17
2020	- 0.49	- 0.83	- 0.20	- 0.72	- 1.00	- 0.53	- 0.64	- 0.94	- 0.38	- 0.49	- 0.85	- 0.18
2021	- 0.38	- 0.60	- 0.16	- 0.68	- 0.83	- 0.47	- 0.56	- 0.75	- 0.32	- 0.34	- 0.61	- 0.10
2022	1.08	- 0.26	2.50	0.87	- 0.52	2.50	1.00	- 0.40	2.48	1.17	- 0.19	2.53
2023	2.48	1.95	2.95	2.50	1.90	2.94	2.40	1.82	2.84	2.48	1.96	3.01
2021 Jan.	- 0.55	- 0.60	- 0.51	- 0.76	- 0.79	- 0.72	- 0.71	- 0.74	- 0.67	- 0.56	- 0.61	- 0.50
Feb.	- 0.43	- 0.54	- 0.32	- 0.71	- 0.77	- 0.62	- 0.61	- 0.71	- 0.48	- 0.41	- 0.54	- 0.27
Mar.	- 0.37	- 0.41	- 0.33	- 0.69	- 0.74	- 0.66	- 0.56	- 0.62	- 0.53	- 0.32	- 0.37	- 0.27
Apr.	- 0.33	- 0.38	- 0.27	- 0.68	- 0.71	- 0.64	- 0.53	- 0.59	- 0.48	- 0.29	- 0.34	- 0.22
May	- 0.23	- 0.30	- 0.16	- 0.62	- 0.67	- 0.57	- 0.45	- 0.51	- 0.39	- 0.18	- 0.25	- 0.10
June	- 0.28	- 0.33	- 0.25	- 0.64	- 0.69	- 0.62	- 0.49	- 0.55	- 0.47	- 0.24	- 0.30	- 0.20
July	- 0.41	- 0.50	- 0.28	- 0.72	- 0.80	- 0.63	- 0.61	- 0.71	- 0.49	- 0.40	- 0.49	- 0.25
Aug.	- 0.52	- 0.56	- 0.46	- 0.79	- 0.83	- 0.75	- 0.70	- 0.75	- 0.65	- 0.50	- 0.54	- 0.44
Sep.	- 0.37	- 0.44	- 0.28	- 0.69	- 0.74	- 0.63	- 0.56	- 0.63	- 0.46	- 0.33	- 0.41	- 0.22
Oct.	- 0.25	- 0.31	- 0.19	- 0.58	- 0.67	- 0.48	- 0.41	- 0.50	- 0.32	- 0.18	- 0.25	- 0.12
Nov.	- 0.36	- 0.46	- 0.21	- 0.64	- 0.72	- 0.47	- 0.50	- 0.60	- 0.33	- 0.30	- 0.41	- 0.15
Dec.	- 0.41	- 0.47	- 0.29	- 0.64	- 0.69	- 0.55	- 0.54	- 0.60	- 0.43	- 0.37	- 0.42	- 0.24
2022 Jan.	- 0.19	- 0.26	- 0.13	- 0.46	- 0.52	- 0.40	- 0.32	- 0.40	- 0.25	- 0.11	- 0.19	- 0.05
Feb.	0.07	- 0.13	0.18	- 0.16	- 0.38	- 0.06	- 0.01	- 0.24	0.09	0.15	- 0.06	0.27
Mar.	0.18	- 0.22	0.54	- 0.09	- 0.52	0.36	0.10	- 0.32	0.51	0.29	- 0.10	0.62
Apr.	0.67	0.41	0.83	0.44	0.21	0.62	0.60	0.36	0.78	0.76	0.48	0.92
May	0.86	0.74	0.98	0.57	0.42	0.69	0.76	0.64	0.90	0.99	0.88	1.11
June	1.39	1.02	1.70	1.13	0.72	1.51	1.29	0.90	1.65	1.49	1.13	1.78
July	1.02	0.77	1.28	0.68	0.42	0.92	0.88	0.62	1.13	1.15	0.89	1.42
Aug.	0.97	0.60	1.43	0.71	0.25	1.24	0.86	0.44	1.36	1.07	0.70	1.52
Sep.	1.72	1.42	2.21	1.56	1.16	2.07	1.68	1.34	2.20	1.81	1.53	2.31
Oct.	2.12	1.70	2.41	1.94	1.50	2.26	2.05	1.63	2.32	2.22	1.81	2.48
Nov.	2.05	1.84	2.27	2.00	1.86	2.18	2.01	1.82	2.22	2.09	1.85	2.33
Dec.	2.07	1.73	2.50	2.09	1.74	2.50	2.06	1.71	2.48	2.10	1.77	2.53
2023 Jan.	2.23	2.03	2.47	2.27	2.10	2.47	2.18	1.99	2.43	2.22	2.01	2.49
Feb.	2.41	2.14	2.68	2.47	2.18	2.79	2.36	2.07	2.64	2.39	2.13	2.65
Mar.	2.43	2.02	2.79	2.50	2.01	2.94	2.38	1.94	2.77	2.41	2.03	2.76
Apr.	2.40	2.14	2.54	2.43	2.14	2.59	2.34	2.07	2.49	2.39	2.14	2.53
May	2.37	2.25	2.54	2.35	2.20	2.52	2.28	2.15	2.45	2.39	2.26	2.56
June	2.46	2.32	2.57	2.54	2.33	2.68	2.38	2.22	2.50	2.42	2.31	2.52
July	2.55	2.40	2.71	2.68	2.52	2.82	2.49	2.33	2.66	2.49	2.34	2.67
Aug.	2.60	2.49	2.71	2.62	2.52	2.74	2.51	2.41	2.64	2.59	2.47	2.71
Sep.	2.71	2.50	2.92	2.73	2.52	2.88	2.61	2.41	2.81	2.71	2.50	2.94
Oct.	2.84	2.72	2.95	2.76	2.66	2.88	2.72	2.61	2.84	2.89	2.76	3.01
Nov.	2.64	2.43	2.81	2.58	2.35	2.68	2.51	2.28	2.66	2.67	2.46	2.87
Dec.	2.15	1.95	2.44	2.10	1.90	2.36	2.02	1.82	2.30	2.16	1.96	2.46
2024 Jan.	2.22	2.08	2.36	2.15	2.00	2.30	2.10	1.94	2.24	2.24	2.10	2.38
Feb.	2.39	2.19	2.54	2.37	2.14	2.57	2.27	2.07	2.45	2.38	2.19	2.52
Mar.	2.41	2.31	2.51	2.43	2.33	2.53	2.31	2.21	2.41	2.38	2.28	2.48
Apr.	2.50	2.40	2.64	2.51	2.40	2.66	2.40	2.29	2.55	2.48	2.37	2.62
May	2.58	2.49	2.75	2.62	2.52	2.77	2.49	2.39	2.66	2.55	2.45	2.72
June	2.55	2.42	2.71	2.56	2.42	2.74	2.45	2.31	2.62	2.52	2.39	2.68

1 Historical low: -0.83 on 12 March 2020. 2 Historical high: 11.43 on 7 and 8 September 1981.