

I. Yields

1. Issue yields, by category of securities

% per annum

Period	Bank debt securities							Public debt securities		
	Total	Total	Mortgage Pfandbriefe	Public Pfandbriefe	Debt securities issued by special purpose credit institutions	Other bank debt securities	Corporate bonds (non-MFIs)	Total	of which: Listed Federal debt securities	
2007	4.3	4.5	4.4	4.4	4.5	4.5	7.6	4.3	4.2	
2008	4.3	4.5	4.5	4.4	4.4	4.7	8.0	4.0	3.9	
2009	3.5	3.5	3.5	3.4	3.1	3.8	5.9	3.1	3.0	
2010	2.6	2.7	2.6	2.6	2.4	3.0	6.2	2.4	2.4	
2011	2.7	3.0	3.0	3.1	2.8	3.1	6.6	2.5	2.3	
2012	1.6	1.8	1.7	1.8	1.5	2.3	5.5	1.3	1.2	
2013	1.6	1.8	1.5	1.6	1.2	2.3	4.8	1.3	1.2	
2014	1.2	1.3	1.1	1.3	0.9	1.8	5.5	1.1	0.9	
2015	0.7	0.7	0.5	0.6	0.4	1.3	5.1	0.4	0.4	
2016 ¹	0.4	0.6	0.3	0.4	0.4	1.2	3.8	0.1	0.1	
2017 ¹	0.6	0.6	0.5	0.5	0.5	1.2	3.7	0.4	0.2	
2018	0.7	0.6	0.5	0.5	0.5	1.1	3.8	0.6	0.4	
2019	0.2	0.4	0.3	0.4	0.3	0.8	3.3	0.1	0.3	
2020	0.1	0.1	0.1	0.1	0.0	0.5	2.6	0.3	0.5	
2021	0.0	0.1	0.1	0.1	0.0	0.4	1.6	0.2	0.3	
2022	1.6	1.9	1.8	1.4	1.8	2.4	3.8	1.3	1.2	
2023	2.9	3.4	3.3	2.4	3.2	4.1	4.6	2.6	2.5	
2020 Apr.	0.41	0.15	0.11	0.00	0.06	0.71	2.17	0.21	0.45	
May	0.02	0.21	0.16	0.30	0.08	0.38	1.33	0.38	0.49	
June	–	0.01	0.15	–	0.19	0.60	1.20	0.27	0.32	
July	0.21	0.06	0.19	1.00	–	0.55	2.39	0.44	0.52	
Aug.	–	0.40	0.18	0.30	0.07	0.47	4.88	0.46	0.52	
Sep.	–	0.13	0.13	0.20	0.12	0.24	1.68	0.38	0.49	
Oct.	0.00	0.23	0.35	0.05	0.32	0.44	2.64	0.40	0.56	
Nov.	–	0.21	0.05	0.03	0.80	0.21	2.89	0.43	0.68	
Dec.	0.36	0.31	0.18	–	0.30	0.32	2.10	0.50	0.73	
2021 Jan.	–	0.14	0.25	0.17	0.28	0.36	0.58	0.23	0.54	
Feb.	0.06	0.07	0.13	0.15	0.04	0.24	1.51	0.15	0.40	
Mar.	0.03	0.05	0.08	0.05	0.26	0.36	1.28	0.19	0.35	
Apr.	0.36	0.00	0.05	0.04	0.05	0.42	3.05	0.19	0.29	
May	0.30	0.30	0.30	0.25	0.27	0.44	2.41	0.08	0.12	
June	0.05	0.14	0.25	–	0.04	0.53	0.90	0.17	0.26	
July	–	0.08	0.11	0.02	0.26	0.33	2.59	0.34	0.38	
Aug.	–	0.30	0.28	0.34	0.19	0.31	1.31	0.50	0.52	
Sep.	–	0.06	0.08	0.24	0.33	0.13	0.69	0.22	0.30	
Oct.	–	0.02	0.25	0.03	0.16	0.36	2.30	0.16	0.25	
Nov.	0.15	0.23	0.11	0.17	0.20	0.68	1.49	0.25	0.31	
Dec.	–	0.24	0.43	–	0.50	0.52	1.22	0.41	0.47	
2022 Jan.	0.33	0.35	0.20	0.49	0.35	0.62	1.38	0.16	0.10	
Feb.	0.48	0.55	0.65	0.45	0.47	1.16	3.97	0.28	0.19	
Mar.	0.71	0.75	0.62	0.59	0.76	1.35	1.98	0.39	0.22	
Apr.	1.20	1.33	1.21	1.14	1.34	1.73	4.15	0.92	0.84	
May	1.47	1.68	1.64	1.85	1.67	2.25	2.54	1.13	1.07	
June	1.83	2.31	2.37	2.57	2.20	2.17	3.21	1.57	1.44	
July	1.26	1.63	1.99	2.25	1.46	2.48	7.27	1.07	0.99	
Aug.	1.81	2.16	1.96	–	2.14	2.61	3.08	1.44	1.41	
Sep.	2.27	2.50	2.38	2.36	2.67	3.37	3.67	1.73	1.70	
Oct.	2.28	2.94	3.10	2.90	2.79	3.46	4.07	2.13	2.07	
Nov.	2.71	3.17	3.12	–	2.79	3.94	4.39	2.11	2.05	
Dec.	2.46	3.38	2.86	3.22	3.04	3.61	6.11	2.13	1.96	
2023 Jan.	2.69	2.88	2.90	2.99	2.84	3.16	3.82	2.32	2.23	
Feb.	2.86	3.33	3.08	3.07	3.16	4.09	3.94	2.67	2.55	
Mar.	2.78	3.13	3.38	–	3.06	3.88	4.47	2.53	2.43	
Apr.	2.89	3.06	3.14	3.11	2.95	3.84	5.68	2.47	2.41	
May	2.80	3.16	3.12	–	2.95	4.30	4.78	2.41	2.37	
June	2.89	3.31	3.27	3.28	3.26	3.90	4.20	2.55	2.46	
July	2.98	3.64	3.48	3.34	3.35	4.53	5.11	2.61	2.55	
Aug.	2.92	3.42	3.46	3.44	3.33	4.12	4.07	2.58	2.53	
Sep.	3.18	3.57	3.61	0.00	3.48	4.10	4.50	2.75	2.72	
Oct.	3.18	3.66	3.75	3.42	3.42	4.68	5.54	2.86	2.75	
Nov.	3.01	3.53	3.32	3.34	3.40	4.31	5.50	2.61	2.54	
Dec.	3.01	3.67	3.02	3.02	3.59	3.92	4.16	2.44	2.44	
2024 Jan.	2.81	2.87	2.73	3.10	2.75	4.70	4.03	2.44	2.24	
Feb.	2.71	3.05	3.08	2.97	2.99	3.30	3.80	2.47	2.41	
Mar.	2.94	3.10	3.05	2.93	2.99	3.54	4.27	2.56	2.40	

¹ Sectoral reclassification of debt securities.

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	–	1.20	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	–	0.92	1.75	
2021	–	0.12	–	0.15	–	0.49	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 May	1.31	1.57	1.49	1.53	1.36	2.38	3.02	
June	1.86	2.15	2.03	2.05	1.94	3.03	3.81	
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	
2024 Apr. ²	2.71	3.05	3.03	3.04	2.87	3.91	3.66	
³	2.73	3.05	3.03	3.05	2.87	3.91	3.66	
⁴	2.72	3.05	3.04	3.05	2.88	3.88	3.63	
⁵	2.70	3.04	3.03	3.05	2.87	3.87	3.61	
⁸	2.78	3.11	3.10	3.12	2.94	3.92	3.66	
⁹	2.75	3.08	3.08	3.09	2.91	3.90	3.64	
¹⁰	2.70	3.04	3.04	3.05	2.87	3.87	3.61	
¹¹	2.81	3.14	3.14	3.15	2.97	3.95	3.70	
¹²	2.74	3.09	3.09	3.10	2.92	3.90	3.67	
¹⁵	2.75	3.10	3.09	3.11	2.93	3.91	3.69	
¹⁶	2.81	3.15	3.15	3.16	2.99	3.96	3.77	
¹⁷	2.84	3.19	3.19	3.20	3.02	4.00	3.81	
¹⁸	2.81	3.16	3.16	3.17	2.99	3.98	3.78	
¹⁹	2.83	3.20	3.19	3.20	3.03	4.01	3.81	
²²	2.88	3.23	3.23	3.24	3.06	4.03	3.83	
²³	2.85	3.20	3.20	3.21	3.03	4.00	3.78	
²⁴	2.89	3.23	3.23	3.24	3.06	4.02	3.82	
²⁵	2.92	3.25	3.25	3.26	3.09	4.05	3.85	
²⁶	2.95	3.28	3.28	3.28	3.10	4.08	3.89	
²⁹	2.88	3.21	3.21	3.21	3.03	4.01	3.82	
³⁰	2.90	3.22	3.23	3.23	3.05	4.02	3.83	
May ²	2.90	3.24	3.24	3.24	3.06	4.03	3.85	

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	0.12	0.94	1.63	1.57	2.37							
2014	1.03	1.03	1.02	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	0.09	0.65							
2017	0.28	0.18	0.17	–	0.51	0.14	0.35	0.32	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	–	0.25	0.21					
2020	–	0.19	–	0.40	–	0.72	–	0.64	–	0.49	–	0.51	–	0.18		
2021	–	0.12	–	0.29	–	0.38	–	0.68	–	0.56	–	0.34	–	0.37	–	0.01
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 May	1.31	1.00	0.86	0.57	0.76	0.99	0.95	1.11								
June	1.86	1.52	1.39	1.13	1.29	1.49	1.45	1.65								
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								
2024 Apr. 3	2.73	2.51	2.43	2.42	2.32	2.42	2.38	2.57								
4	2.72	2.50	2.41	2.42	2.31	2.39	2.36	2.55								
5	2.70	2.48	2.40	2.40	2.29	2.38	2.35	2.53								
8	2.78	2.56	2.49	2.49	2.38	2.47	2.44	2.61								
9	2.75	2.53	2.45	2.48	2.35	2.42	2.39	2.55								
10	2.70	2.48	2.40	2.42	2.29	2.37	2.34	2.51								
11	2.81	2.59	2.51	2.55	2.42	2.48	2.46	2.59								
12	2.74	2.52	2.43	2.45	2.33	2.40	2.38	2.53								
15	2.75	2.52	2.43	2.44	2.33	2.41	2.38	2.55								
16	2.81	2.57	2.49	2.48	2.39	2.47	2.44	2.61								
17	2.84	2.60	2.52	2.52	2.42	2.50	2.47	2.62								
18	2.81	2.57	2.49	2.50	2.39	2.46	2.43	2.59								
19	2.83	2.60	2.51	2.53	2.42	2.48	2.45	2.60								
22	2.88	2.66	2.57	2.59	2.48	2.55	2.52	2.66								
23	2.85	2.62	2.53	2.56	2.44	2.51	2.48	2.63								
24	2.89	2.66	2.58	2.58	2.48	2.56	2.53	2.69								
25	2.92	2.69	2.61	2.60	2.51	2.59	2.56	2.73								
26	2.95	2.72	2.64	2.66	2.55	2.62	2.59	2.74								
29	2.88	2.65	2.57	2.58	2.47	2.55	2.52	2.68								
30	2.90	2.67	2.59	2.62	2.50	2.57	2.54	2.68								
May 2	2.90	2.68	2.59	2.63	2.50	2.57	2.54	2.68								
3	.	.	2.58	2.61	2.49	2.55	2.53	2.66								

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	–	0.3	0.8	0.4	0.5	0.8
2016	–	0.4	–	0.3	–	0.1	0.0	0.4	0.3	0.4
2017	–	0.6	–	0.4	–	0.2	0.1	0.7	0.3	0.6
2018	–	0.4	–	0.3	–	0.1	0.2	0.8	0.6	0.6
2019	–	0.5	–	0.4	–	0.3	–	0.1	–	0.0
2020	1	–	0.4	–	0.3	–	0.2	–	0.3	–
2021	–	–	0.5	–	0.4	–	0.2	–	0.2	–
2022	–	–	1.0	–	1.3	–	1.5	–	1.5	–
2023	–	–	3.5	–	3.3	–	2.9	–	2.8	–
2022 May	0.44	0.90	1.17	1.29	1.27	1.25	1.37	1.36	1.24	1.37
June	1.01	1.53	1.79	1.85	1.84	1.81	1.89	1.90	1.74	1.87
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
2024 Apr. 2	3.44	3.13	2.81	2.74	2.70	2.66	2.68	2.64	2.62	2.75
3	3.43	3.12	2.81	2.74	2.71	2.68	2.70	2.66	2.64	2.77
4	3.45	3.12	2.81	2.74	2.70	2.67	2.69	2.65	2.63	2.76
5	3.44	3.12	2.79	2.73	2.69	2.66	2.67	2.63	2.61	2.75
8	3.42	3.23	2.86	2.80	2.76	2.73	2.75	2.71	2.69	2.82
9	3.44	3.22	2.86	2.79	2.75	2.71	2.70	2.67	2.65	2.78
10	3.40	3.19	2.81	2.73	2.71	2.66	2.66	2.62	2.60	2.74
11	3.53	3.26	2.90	2.87	2.82	2.77	2.75	2.73	2.71	2.84
12	3.47	3.14	2.84	2.81	2.75	2.70	2.69	2.67	2.65	2.78
15	3.45	3.13	2.84	2.81	2.75	2.71	2.71	2.67	2.66	2.80
16	3.48	3.17	2.89	2.85	2.81	2.77	2.77	2.73	2.72	2.86
17	3.51	3.21	2.93	2.89	2.85	2.81	2.79	2.77	2.75	2.90
18	3.50	3.20	2.91	2.87	2.81	2.78	2.76	2.73	2.72	2.85
19	3.53	3.23	2.95	2.90	2.84	2.81	2.77	2.75	2.74	2.87
22	3.56	3.26	2.99	2.94	2.89	2.85	2.83	2.81	2.80	2.94
23	3.53	3.23	2.95	2.91	2.85	2.82	2.79	2.77	2.75	2.90
24	3.54	3.24	2.98	2.94	2.89	2.85	2.85	2.81	2.81	2.95
25	3.56	3.25	3.00	2.96	2.92	2.88	2.88	2.84	2.84	2.98
26	3.60	3.28	3.04	3.00	2.96	2.91	2.90	2.87	2.87	3.00
29	3.43	3.23	2.98	2.93	2.88	2.83	2.83	2.79	2.79	2.92
30	3.46	3.26	3.01	2.95	2.90	2.86	2.84	2.81	2.81	2.94
May 2	3.47	3.27	3.02	2.97	2.92	2.86	2.84	2.82	2.81	2.93

* 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	0.0	0.1	0.2	0.3	0.4	0.8	1.0
2017	-	0.3	0.2	0.0	0.2	0.3	0.4	0.9	0.9	0.9
2018	-	0.2	0.0	0.2	0.3	0.4	1.0	0.9	1.0	1.0
2019	-	0.2	0.1	0.2	0.1	0.1	0.3	0.4	0.3	0.3
2020	1	0.2	0.3	0.2	0.1	0.1	0.1	-	0.0	0.1
2021	-	0.5	0.4	0.3	0.2	0.1	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 May	0.55	0.95	1.35	1.43	1.58	1.50	1.80	1.67	1.77	1.73
June	1.19	1.59	1.95	2.04	2.18	2.09	2.33	2.23	2.32	2.26
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
2024 Apr. 2	3.59	3.29	3.11	3.03	3.05	2.95	3.05	3.04	2.93	3.03
3	3.57	3.28	3.10	3.02	3.06	2.96	3.06	3.04	2.94	3.03
4	3.59	3.30	3.10	3.03	3.06	2.96	3.06	3.05	2.94	3.04
5	3.57	3.29	3.09	3.02	3.04	2.95	3.05	3.03	2.93	3.03
8	3.62	3.35	3.16	3.09	3.12	3.02	3.12	3.10	3.00	3.09
9	3.62	3.36	3.15	3.07	3.10	2.99	3.07	3.06	2.96	3.06
10	3.59	3.31	3.11	3.03	3.06	2.95	3.04	3.03	2.92	3.02
11	3.66	3.43	3.21	3.13	3.16	3.04	3.12	3.12	3.01	3.11
12	3.61	3.36	3.16	3.08	3.11	2.99	3.08	3.07	2.97	3.06
15	3.60	3.36	3.16	3.09	3.12	3.01	3.10	3.09	2.98	3.09
16	3.61	3.40	3.21	3.12	3.17	3.07	3.16	3.14	3.04	3.15
17	3.64	3.45	3.27	3.16	3.22	3.11	3.19	3.18	3.07	3.18
18	3.62	3.42	3.24	3.13	3.18	3.08	3.15	3.14	3.03	3.15
19	3.66	3.46	3.28	3.17	3.20	3.12	3.17	3.17	3.06	3.17
22	3.67	3.48	3.30	3.21	3.23	3.15	3.21	3.20	3.10	3.24
23	3.68	3.45	3.27	3.18	3.20	3.13	3.19	3.18	3.07	3.21
24	3.68	3.47	3.30	3.20	3.23	3.15	3.23	3.21	3.12	3.25
25	3.68	3.48	3.31	3.22	3.26	3.18	3.26	3.23	3.15	3.27
26	3.72	3.49	3.36	3.25	3.29	3.19	3.27	3.25	3.17	3.29
29	3.68	3.43	3.29	3.18	3.22	3.12	3.19	3.17	3.10	3.21
30	3.69	3.45	3.32	3.19	3.23	3.15	3.21	3.18	3.11	3.23
May 2	3.71	3.45	3.35	3.21	3.24	3.16	3.21	3.19	3.11	3.23

* 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	0.2	0.4	0.3	0.4
2017	-	0.2	-	0.1	0.1	0.2	0.3	0.6	0.4	0.6
2018	-	0.3	-	0.1	0.2	0.4	0.5	0.8	0.7	0.9
2019	-	0.3	-	0.2	-	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	-	0.2	-	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 May	0.68	1.01	1.16	1.36	1.46	1.56	1.75	1.64	1.68	1.79
June	1.28	1.60	1.70	1.92	2.00	2.10	2.26	2.16	2.18	2.30
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
2024 Apr. 2	3.49	3.26	3.12	3.00	3.01	2.97	3.00	2.98	2.92	2.97
3	3.49	3.25	3.12	3.01	3.00	2.97	3.02	2.99	2.94	2.97
4	3.50	3.27	3.12	3.01	3.01	2.98	3.01	2.99	2.94	2.96
5	3.50	3.26	3.12	3.00	3.00	2.97	3.01	2.98	2.93	2.96
8	3.52	3.33	3.18	3.07	3.07	3.04	3.08	3.06	3.00	3.04
9	3.52	3.34	3.18	3.06	3.05	3.01	3.04	3.02	2.96	2.99
10	3.49	3.29	3.14	3.02	3.01	2.97	3.00	2.98	2.93	2.95
11	3.58	3.41	3.25	3.12	3.12	3.07	3.09	3.07	3.02	3.04
12	3.53	3.34	3.19	3.07	3.07	3.01	3.04	3.03	2.97	2.99
15	3.51	3.34	3.19	3.07	3.08	3.03	3.06	3.03	2.99	3.02
16	3.54	3.38	3.23	3.12	3.13	3.09	3.12	3.09	3.05	3.08
17	3.58	3.42	3.28	3.16	3.18	3.13	3.15	3.14	3.08	3.11
18	3.57	3.41	3.26	3.14	3.15	3.09	3.11	3.10	3.04	3.08
19	3.57	3.45	3.30	3.17	3.18	3.12	3.13	3.12	3.06	3.10
22	3.59	3.46	3.33	3.21	3.22	3.17	3.18	3.17	3.11	3.15
23	3.58	3.44	3.29	3.17	3.19	3.13	3.15	3.13	3.08	3.11
24	3.58	3.45	3.32	3.20	3.21	3.17	3.20	3.17	3.13	3.16
25	3.59	3.47	3.33	3.23	3.24	3.19	3.22	3.20	3.15	3.18
26	3.63	3.51	3.37	3.26	3.27	3.22	3.24	3.23	3.18	3.20
29	3.58	3.45	3.30	3.19	3.20	3.14	3.17	3.16	3.10	3.12
30	3.60	3.47	3.32	3.21	3.21	3.16	3.18	3.17	3.13	3.14
May 2	3.62	3.48	3.35	3.22	3.23	3.16	3.18	3.17	3.13	3.14

* 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	0.1	0.5	0.3	0.4	0.4
2017	-	0.2	0.1	0.0	0.1	0.2	0.4	0.7	0.6	0.7
2018	-	0.2	0.1	0.2	0.4	0.6	0.9	0.6	0.7	0.9
2019	-	0.3	0.2	0.1	0.0	0.0	0.3	0.1	0.2	0.3
2020	1	0.3	0.3	0.2	0.2	0.2	0.0	0.2	0.1	0.1
2021	-	0.5	0.4	0.3	0.2	0.2	0.1	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 May	0.63	1.18	1.22	1.38	1.47	1.55	1.80	1.62	1.72	1.83
June	1.17	1.73	1.78	1.87	2.03	2.09	2.31	2.15	2.25	2.37
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
2024 Apr. 2	3.43	3.18	3.05	3.09	2.97	2.93	3.05	2.93	2.93	3.00
3	3.43	3.18	3.06	3.10	2.97	2.96	3.07	2.98	2.96	3.00
4	3.44	3.19	3.07	3.10	2.97	2.95	3.06	2.97	2.95	3.01
5	3.44	3.18	3.06	3.10	2.97	2.95	3.05	2.95	2.94	3.00
8	3.49	3.25	3.13	3.16	3.04	3.02	3.12	3.03	3.01	3.06
9	3.50	3.25	3.12	3.15	3.01	3.00	3.08	3.00	2.98	3.02
10	3.46	3.21	3.08	3.12	2.97	2.97	3.05	2.97	2.95	2.98
11	3.56	3.33	3.20	3.23	3.08	3.06	3.13	3.06	3.04	3.06
12	3.50	3.26	3.13	3.17	3.01	3.01	3.08	3.01	2.99	3.02
15	3.49	3.25	3.12	3.17	3.04	3.01	3.10	3.01	3.00	3.05
16	3.51	3.30	3.18	3.21	3.09	3.06	3.16	3.07	3.06	3.11
17	3.55	3.34	3.23	3.26	3.13	3.12	3.19	3.11	3.10	3.14
18	3.54	3.22	3.20	3.24	3.11	3.07	3.16	3.07	3.06	3.11
19	3.57	3.37	3.24	3.27	3.14	3.10	3.18	3.11	3.08	3.14
22	3.58	3.38	3.27	3.30	3.18	3.15	3.22	3.15	3.13	3.17
23	3.56	3.36	3.24	3.26	3.15	3.12	3.20	3.12	3.10	3.16
24	3.57	3.38	3.27	3.28	3.18	3.15	3.23	3.14	3.13	3.19
25	3.58	3.39	3.28	3.31	3.19	3.18	3.26	3.18	3.17	3.22
26	3.62	3.43	3.31	3.34	3.22	3.21	3.28	3.21	3.19	3.22
29	3.57	3.38	3.25	3.28	3.14	3.13	3.21	3.13	3.12	3.15
30	3.59	3.40	3.27	3.29	3.17	3.15	3.22	3.15	3.13	3.17
May 2	3.61	3.42	3.29	3.30	3.18	3.16	3.22	3.16	3.14	3.17

* 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	3.9	4.0	4.3	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	0.3	0.4	0.6	
2016	–	0.6	–	0.5	–	0.4	–	0.2	0.3	0.2	
2017	–	0.7	–	0.6	–	0.4	–	0.2	0.6	0.4	
2018	–	0.6	–	0.5	–	0.3	–	0.2	0.7	0.4	
2019	–	0.6	–	0.6	–	0.5	–	0.4	0.0	0.2	
2020	1	–	0.6	–	0.6	–	0.6	–	0.5	–	0.4
2021	–	0.7	–	0.7	–	0.6	–	0.5	–	0.5	0.3
2022	–	0.7	–	0.9	–	1.0	–	1.1	–	1.3	1.3
2023	–	3.1	–	2.8	–	2.7	–	2.5	–	2.6	2.6
2022 May	0.16	0.54	0.63	0.79	0.80	0.88	1.17	0.98	0.98	1.08	
June	0.70	1.11	1.17	1.33	1.35	1.41	1.68	1.49	1.48	1.56	
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	
2024 Apr. 2	3.06	2.72	2.51	2.43	2.39	2.38	2.53	2.37	2.38	2.50	
3	3.06	2.71	2.52	2.44	2.40	2.40	2.56	2.40	2.41	2.52	
4	3.06	2.72	2.52	2.44	2.39	2.39	2.54	2.39	2.39	2.51	
5	3.06	2.72	2.50	2.43	2.39	2.37	2.53	2.37	2.38	2.49	
8	3.07	2.79	2.58	2.51	2.47	2.46	2.61	2.46	2.47	2.58	
9	3.04	2.78	2.58	2.50	2.45	2.43	2.56	2.42	2.42	2.54	
10	2.99	2.74	2.53	2.44	2.40	2.38	2.52	2.37	2.37	2.49	
11	3.10	2.85	2.63	2.56	2.52	2.50	2.61	2.49	2.49	2.60	
12	3.03	2.74	2.55	2.48	2.44	2.42	2.55	2.42	2.41	2.53	
15	3.01	2.72	2.53	2.47	2.44	2.42	2.56	2.41	2.42	2.53	
16	3.03	2.76	2.58	2.52	2.49	2.47	2.62	2.47	2.48	2.60	
17	3.07	2.80	2.62	2.56	2.53	2.51	2.64	2.51	2.51	2.63	
18	3.06	2.79	2.60	2.53	2.49	2.48	2.61	2.47	2.48	2.59	
19	3.07	2.82	2.63	2.56	2.52	2.50	2.62	2.50	2.50	2.61	
22	3.11	2.87	2.68	2.62	2.59	2.56	2.68	2.56	2.56	2.67	
23	3.08	2.84	2.65	2.58	2.55	2.52	2.65	2.51	2.52	2.63	
24	3.10	2.85	2.68	2.61	2.58	2.56	2.70	2.56	2.57	2.69	
25	3.11	2.88	2.69	2.64	2.61	2.59	2.74	2.59	2.60	2.71	
26	3.16	2.91	2.75	2.68	2.66	2.63	2.76	2.63	2.63	2.74	
29	3.10	2.86	2.68	2.61	2.58	2.55	2.68	2.55	2.55	2.67	
30	3.13	2.90	2.71	2.64	2.60	2.57	2.70	2.57	2.57	2.68	
May 2	3.13	2.91	2.73	2.65	2.61	2.58	2.70	2.58	2.58	2.68	

* 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
2020 Nov.	- 0.58	- 0.65	- 0.50	- 0.79	- 0.85	- 0.73	- 0.74	- 0.80	- 0.65	- 0.58	- 0.65	- 0.48
2020 Dec.	- 0.58	- 0.63	- 0.53	- 0.78	- 0.82	- 0.74	- 0.74	- 0.78	- 0.68	- 0.58	- 0.63	- 0.52
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
2021 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
2021 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
2021 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
2021 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
2021 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
2021 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
2021 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
2021 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
2021 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
2021 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
2021 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
2022 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
2022 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
2022 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
2022 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
2022 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
2022 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
2022 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
2022 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
2022 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
2022 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
2022 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
2023 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
2023 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
2023 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
2023 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
2023 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
2023 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
2023 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
2023 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
2023 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
2023 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
2023 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
2024 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
2024 Mar.	2.41	2.31	2.43	2.43	2.33	2.53	2.31	2.21	2.41	2.38	2.28	2.48
2024 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

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

I. Yields

3. Yields of current Federal securities

% per annum

End of year or month or trading day	Daily yield of the current two-year Federal Treasury notes	Daily yield of the current five-year Federal notes	Daily yield of the current 7 year Federal bond	Daily yield of the current 10 year Federal bond	Daily yield of the current 15 year Federal bond	Daily yield of the current 30 year Federal bond				
2007	.	4.16	.	4.37	.	4.63				
2008	.	2.31	.	2.94	.	3.52				
2009	.	2.40	.	3.37	.	4.09				
2010	.	1.84	.	2.98	.	3.42				
2011	.	0.77	.	1.83	.	2.37				
2012	.	0.30	.	1.30	.	2.14				
2013	.	0.95	.	1.96	.	2.77				
2014	–	0.10	.	0.56	.	1.41				
2015	–	0.34	–	0.64	.	1.50				
2016	–	0.79	–	0.55	.	0.92				
2017	–	0.62	–	0.42	.	1.25				
2018	–	0.63	–	0.23	.	0.86				
2019	–	0.62	–	0.49	.	0.33				
2020	–	0.71	–	0.73	–	0.38	–	0.15		
2021	–	0.64	–	0.47	–	0.38	–	0.01	0.15	
2022		2.71		2.53		2.49		2.51	2.61	2.46
2023		2.39		1.94		1.93		2.02	2.23	2.26
2022 Apr.		0.23		0.69		0.73		0.90	1.07	1.03
May		0.45		0.79		0.86		1.07	1.31	1.33
June		0.70		1.14		1.21		1.44	1.68	1.66
July		0.30		0.60		0.63		0.91	1.14	1.16
Aug.		1.17		1.36		1.35		1.54	1.69	1.63
Sep.		1.75		1.96		1.96		2.12	2.24	2.08
Oct.		1.94		2.03		2.11		2.15	2.32	2.21
Nov.		2.15		1.98		1.91		1.94	2.01	1.82
Dec.		2.71		2.53		2.49		2.51	2.61	2.46
2023 Jan.		2.65		2.32		2.27		2.30	2.38	2.24
Feb.		3.14		2.73		2.67		2.64	2.74	2.59
Mar.		2.74		2.42		2.37		2.36	2.49	2.38
Apr.		2.69		2.35		2.33		2.36	2.52	2.45
May		2.72		2.27		2.25		2.27	2.48	2.44
June		3.20		2.58		2.51		2.44	2.54	2.45
July		3.07		2.57		2.52		2.52	2.66	2.59
Aug.		3.00		2.51		2.48		2.50	2.65	2.62
Sep.		3.23		2.81		2.80		2.86	3.01	3.02
Oct.		3.00		2.64		2.67		2.78	3.01	3.05
Nov.		2.78		2.33		2.33		2.42	2.64	2.67
Dec.		2.39		1.94		1.93		2.02	2.23	2.26
2024 Jan.		2.50		2.12		2.13		2.22	2.40	2.44
Feb.		2.97		2.52		2.47		2.51	2.64	2.62
Mar.		2.86		2.35		2.29		2.31	2.46	2.47
Apr.		2.98		2.57		2.52		2.55	2.73	2.67
2024 Apr. 3		2.84		2.38		2.34		2.39	2.55	2.57
4		2.84		2.37		2.33		2.37	2.52	2.55
5		2.85		2.35		2.31		2.36	2.51	2.53
8		2.92		2.44		2.40		2.45	2.60	2.61
9		2.92		2.42		2.37		2.40	2.54	2.54
10		2.87		2.36		2.32		2.35	2.56	2.56
11		2.98		2.49		2.44		2.47	2.64	2.57
12		2.90		2.40		2.35		2.38	2.57	2.52
15		2.87		2.40		2.35		2.39	2.59	2.55
16		2.90		2.45		2.41		2.45	2.65	2.60
17		2.94		2.49		2.44		2.48	2.67	2.62
18		2.94		2.46		2.41		2.44	2.63	2.58
19		2.97		2.49		2.44		2.46	2.65	2.59
22		3.02		2.55		2.50		2.53	2.71	2.65
23		2.91		2.51		2.46		2.49	2.67	2.62
24		2.93		2.54		2.50		2.54	2.73	2.68
25		2.95		2.57		2.53		2.57	2.76	2.73
26		3.00		2.61		2.57		2.60	2.78	2.74
29		2.94		2.53		2.49		2.53	2.71	2.67
30		2.98		2.57		2.52		2.55	2.73	2.67
May 2		2.99		2.57		2.53		2.55	2.72	2.66
3		2.97		2.56		2.52		2.53	2.70	2.64

I. Yields

still: 3. Yields of current Federal securities - average, highest and lowest rates

% p.a.

Period	Daily yield of the current two-year Federal Treasury notes			Daily yield of the current five-year Federal notes			Daily yield of the current 7 year Federal bond		
	Average rate	Lowest rate	Highest rate	Average rate	Lowest rate	Highest rate	Average rate	Lowest rate	Highest rate
2007	.	.	.	4.14	3.76	4.64	.	.	.
2008	.	.	.	3.71	2.31	4.75	.	.	.
2009	.	.	.	2.39	2.01	2.87	.	.	.
2010	.	.	.	1.79	1.18	2.45	.	.	.
2011	.	.	.	1.83	0.77	2.81	.	.	.
2012	.	.	.	0.57	0.25	1.07	.	.	.
2013	.	.	.	0.63	0.28	1.08	.	.	.
2014	0.04	0.10	0.23	0.40	0.02	0.95	.	.	.
2015	0.25	0.45	0.11	0.01	0.21	0.25	.	.	.
2016	0.59	0.84	0.36	0.41	0.63	0.08	.	.	.
2017	0.72	0.96	0.58	0.34	0.59	0.08	.	.	.
2018	0.59	0.82	0.50	0.14	0.40	0.13	.	.	.
2019	0.67	0.94	0.51	0.55	0.96	0.27	.	.	.
2020	0.71	1.02	0.59	0.68	0.96	0.46	0.64	0.77	0.42
2021	0.70	0.79	0.60	0.62	0.77	0.40	0.49	0.72	0.25
2022	0.74	0.78	2.71	0.98	0.44	2.53	1.02	0.36	2.49
2023	2.89	2.24	3.34	2.47	1.87	2.86	2.44	1.84	2.90
2020 Apr.	0.68	0.73	0.63	0.63	0.70	0.54	.	.	.
May	0.72	0.79	0.64	0.70	0.77	0.62	0.59	0.66	0.53
June	0.66	0.71	0.61	0.64	0.71	0.56	0.53	0.62	0.42
July	0.69	0.72	0.66	0.67	0.74	0.63	0.60	0.68	0.55
Aug.	0.68	0.72	0.65	0.68	0.73	0.63	0.61	0.67	0.54
Sep.	0.70	0.73	0.66	0.70	0.73	0.63	0.63	0.68	0.53
Oct.	0.75	0.80	0.70	0.77	0.83	0.71	0.71	0.76	0.64
Nov.	0.76	0.81	0.72	0.77	0.83	0.70	0.70	0.77	0.62
Dec.	0.75	0.79	0.71	0.77	0.81	0.72	0.70	0.75	0.65
2021 Jan.	0.72	0.75	0.70	0.73	0.77	0.69	0.68	0.72	0.63
Feb.	0.71	0.73	0.66	0.66	0.73	0.56	0.59	0.68	0.47
Mar.	0.70	0.72	0.67	0.64	0.69	0.60	0.54	0.60	0.51
Apr.	0.70	0.72	0.68	0.62	0.66	0.57	0.50	0.56	0.37
May	0.67	0.70	0.65	0.55	0.61	0.49	0.34	0.40	0.27
June	0.67	0.70	0.65	0.59	0.64	0.56	0.38	0.45	0.36
July	0.70	0.76	0.67	0.65	0.74	0.57	0.52	0.62	0.39
Aug.	0.75	0.79	0.74	0.73	0.77	0.70	0.64	0.67	0.59
Sep.	0.71	0.73	0.69	0.63	0.69	0.54	0.49	0.57	0.39
Oct.	0.67	0.71	0.62	0.50	0.59	0.41	0.34	0.43	0.25
Nov.	0.73	0.78	0.60	0.56	0.65	0.40	0.44	0.53	0.26
Dec.	0.70	0.74	0.64	0.57	0.63	0.47	0.48	0.55	0.38
2022 Jan.	0.60	0.65	0.57	0.36	0.44	0.26	0.27	0.36	0.21
Feb.	0.40	0.50	0.24	0.03	0.24	0.08	0.02	0.20	0.12
Mar.	0.39	0.78	0.00	0.05	0.39	0.50	0.11	0.30	0.51
Apr.	0.08	0.11	0.26	0.56	0.34	0.74	0.62	0.37	0.80
May	0.29	0.06	0.45	0.69	0.54	0.81	0.78	0.66	0.92
June	0.88	0.51	1.21	1.26	0.84	1.65	1.31	0.91	1.64
July	0.47	0.30	0.65	0.86	0.60	1.09	0.89	0.63	1.14
Aug.	0.66	0.18	1.17	0.86	0.42	1.36	0.85	0.45	1.35
Sep.	1.51	1.02	1.96	1.68	1.32	2.22	1.66	1.32	2.20
Oct.	1.88	1.47	2.18	2.04	1.61	2.34	2.08	1.62	2.40
Nov.	2.12	1.88	2.30	2.03	1.86	2.23	2.05	1.83	2.28
Dec.	2.31	1.96	2.71	2.11	1.74	2.53	2.08	1.75	2.49
2023 Jan.	2.59	2.49	2.68	2.26	2.08	2.48	2.21	2.02	2.44
Feb.	2.80	2.52	3.14	2.45	2.15	2.73	2.39	2.11	2.67
Mar.	2.81	2.24	3.34	2.45	1.97	2.86	2.41	1.97	2.79
Apr.	2.78	2.47	2.95	2.40	2.13	2.55	2.37	2.11	2.53
May	2.69	2.52	2.89	2.33	2.18	2.50	2.32	2.18	2.49
June	3.00	2.75	3.20	2.47	2.29	2.60	2.41	2.25	2.53
July	3.14	2.98	3.28	2.58	2.41	2.75	2.52	2.35	2.69
Aug.	3.02	2.91	3.13	2.58	2.48	2.72	2.55	2.43	2.68
Sep.	3.16	2.96	3.31	2.68	2.48	2.85	2.66	2.45	2.86
Oct.	3.12	3.00	3.22	2.74	2.64	2.86	2.77	2.65	2.90
Nov.	2.99	2.78	3.08	2.56	2.33	2.67	2.56	2.33	2.71
Dec.	2.55	2.38	2.77	2.08	1.87	2.34	2.06	1.84	2.34
2024 Jan.	2.58	2.44	2.72	2.14	1.98	2.27	2.13	1.97	2.28
Feb.	2.73	2.47	2.97	2.32	2.10	2.52	2.30	2.10	2.47
Mar.	2.86	2.76	2.95	2.38	2.28	2.48	2.33	2.23	2.43
Apr.	2.92	2.84	3.02	2.46	2.35	2.61	2.42	2.31	2.57

I. Yields

still: 3. Yields of current Federal securities - average, highest and lowest rates

% p.a.

Period	Daily yield of the current 10 year Federal bond			Daily yield of the current 15 year Federal bond			Daily yield of the current 30 year Federal bond		
	Average rate	Lowest rate	Highest rate	Average rate	Lowest rate	Highest rate	Average rate	Lowest rate	Highest rate
2007	4.23	3.88	4.68	.	.	.	4.42	4.03	4.83
2008	4.01	2.93	4.68	.	.	.	4.49	3.18	4.89
2009	3.27	2.91	3.70	.	.	.	4.03	3.53	4.49
2010	2.77	2.10	3.41	.	.	.	3.43	2.60	4.13
2011	2.65	1.68	3.49	.	.	.	3.26	2.37	3.97
2012	1.57	1.13	2.06	.	.	.	2.31	1.67	2.67
2013	1.63	1.19	2.06	.	.	.	2.47	2.07	2.79
2014	1.24	0.56	1.95	.	.	.	2.14	1.41	2.76
2015	0.54	0.07	1.01	.	.	.	1.22	0.46	1.74
2016	0.13	-	0.20	0.59	.	.	0.78	0.30	1.43
2017	0.38	0.17	0.59	.	.	.	1.17	0.90	1.37
2018	0.47	0.21	0.78	.	.	.	1.13	0.84	1.42
2019	-	0.21	0.74	0.29	.	.	0.37	-	0.88
2020	-	0.48	0.83	0.17	-	0.47	-	0.04	0.50
2021	-	0.31	0.61	0.08	-	0.43	0.22	0.15	0.20
2022	1.18	-	0.18	2.51	1.34	0.01	2.67	1.32	0.14
2023	2.46	1.92	2.97	2.61	2.12	3.16	2.56	1.97	3.18
2020 Apr.	-	0.44	0.51	0.32	.	.	-	0.03	0.10
May	-	0.50	0.58	0.43	-	0.34	-	0.21	0.16
June	-	0.40	0.48	0.28	-	0.19	-	0.04	0.04
July	-	0.47	0.55	0.41	-	0.27	-	0.37	0.20
Aug.	-	0.48	0.54	0.39	-	0.28	-	0.16	0.05
Sep.	-	0.49	0.55	0.39	-	0.29	-	0.35	0.16
Oct.	-	0.57	0.64	0.51	-	0.38	-	0.46	0.31
Nov.	-	0.58	0.65	0.48	-	0.39	-	0.47	0.28
Dec.	-	0.58	0.63	0.52	-	0.40	-	0.46	0.32
2021 Jan.	-	0.53	0.61	0.48	-	0.37	-	0.43	0.31
Feb.	-	0.40	0.51	0.25	-	0.20	-	0.34	0.05
Mar.	-	0.32	0.37	0.26	-	0.04	-	0.11	0.04
Apr.	-	0.27	0.33	0.20	0.02	-	0.04	0.09	0.28
May	-	0.16	0.23	0.09	0.13	0.06	0.22	0.40	0.33
June	-	0.20	0.29	0.16	0.08	0.02	0.12	0.32	0.25
July	-	0.34	0.45	0.19	-	0.09	-	0.19	0.07
Aug.	-	0.46	0.50	0.41	-	0.22	-	0.27	0.16
Sep.	-	0.31	0.39	0.20	-	0.05	-	0.14	0.06
Oct.	-	0.15	0.23	0.08	0.07	-	0.03	0.12	0.28
Nov.	-	0.25	0.36	0.10	-	0.08	-	0.17	0.04
Dec.	-	0.33	0.39	0.21	-	0.15	-	0.23	0.01
2022 Jan.	-	0.06	0.18	0.01	0.09	0.01	0.15	0.25	0.17
Feb.	0.19	-	0.01	0.31	0.31	0.13	0.44	0.42	0.27
Mar.	0.32	-	0.07	0.65	0.45	0.06	0.73	0.50	0.14
Apr.	0.78	0.49	0.95	0.90	0.61	1.07	0.91	0.64	1.08
May	0.99	0.89	1.13	1.18	1.07	1.31	1.16	1.05	1.33
June	1.49	1.12	1.78	1.70	1.35	1.96	1.69	1.38	1.92
July	1.17	0.91	1.40	1.40	1.14	1.66	1.42	1.16	1.68
Aug.	1.09	0.73	1.54	1.28	0.97	1.69	1.28	1.00	1.63
Sep.	1.82	1.55	2.33	1.95	1.72	2.40	1.83	1.68	2.20
Oct.	2.21	1.81	2.48	2.39	1.98	2.67	2.25	1.85	2.55
Nov.	2.08	1.83	2.33	2.21	1.95	2.45	2.07	1.79	2.32
Dec.	2.10	1.76	2.51	2.16	1.83	2.61	1.96	1.62	2.46
2023 Jan.	2.23	2.02	2.48	2.32	2.12	2.58	2.17	1.97	2.44
Feb.	2.40	2.14	2.64	2.49	2.26	2.74	2.36	2.18	2.59
Mar.	2.40	2.02	2.76	2.51	2.17	2.84	2.40	2.11	2.68
Apr.	2.38	2.13	2.52	2.52	2.29	2.65	2.45	2.23	2.56
May	2.36	2.24	2.52	2.55	2.40	2.72	2.52	2.36	2.68
June	2.39	2.28	2.49	2.55	2.44	2.65	2.50	2.38	2.61
July	2.49	2.34	2.66	2.59	2.46	2.75	2.51	2.35	2.67
Aug.	2.57	2.46	2.70	2.71	2.60	2.82	2.66	2.55	2.77
Sep.	2.68	2.48	2.92	2.84	2.63	3.08	2.83	2.60	3.10
Oct.	2.85	2.72	2.97	3.05	2.92	3.16	3.07	2.92	3.18
Nov.	2.63	2.42	2.83	2.85	2.64	3.07	2.85	2.67	3.12
Dec.	2.12	1.92	2.43	2.32	2.12	2.64	2.33	2.16	2.67
2024 Jan.	2.22	2.07	2.37	2.41	2.28	2.54	2.43	2.31	2.55
Feb.	2.36	2.17	2.51	2.53	2.36	2.64	2.53	2.37	2.62
Mar.	2.36	2.26	2.46	2.51	2.41	2.61	2.51	2.42	2.60
Apr.	2.46	2.35	2.60	2.63	2.51	2.78	2.60	2.52	2.74