

## 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 <sup>1</sup>	0.4	0.6	0.3	0.4	0.4	1.2	3.8	0.1	0.1	
2017 <sup>1</sup>	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 Dec.	0.36	0.31	0.18	–	0.30	0.32	2.10	0.50	0.73	
2021 Jan.	–	0.14	–	0.17	–	0.28	0.36	0.58	0.54	
Feb.	–	0.06	–	0.13	–	0.15	0.24	1.51	0.40	
Mar.	–	0.03	–	0.08	–	0.05	0.26	1.28	0.35	
Apr.	–	0.36	–	0.05	–	0.04	0.42	3.05	0.29	
May	–	0.30	–	0.30	–	0.27	0.44	2.41	0.12	
June	–	0.05	–	0.25	–	0.04	0.53	0.90	0.26	
July	–	0.08	–	0.11	–	0.30	0.33	2.59	0.38	
Aug.	–	0.30	–	0.28	–	0.31	0.38	1.31	0.52	
Sep.	–	0.06	–	0.24	–	0.13	0.35	0.69	0.30	
Oct.	–	0.02	–	0.03	–	0.36	0.54	2.30	0.25	
Nov.	–	0.15	–	0.23	–	0.20	0.68	1.49	0.31	
Dec.	–	0.24	–	0.13	–	0.50	0.52	1.22	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	
Apr.	3.05	3.12	3.11	3.80	3.03	3.51	4.79	2.61	2.56	
May	3.08	3.18	3.09	3.64	3.02	4.02	5.26	2.70	2.62	
June	2.92	3.31	3.25	3.15	3.33	3.55	4.19	2.64	2.55	
July	2.88	3.08	3.24	3.07	2.94	3.56	6.75	2.55	2.55	
Aug.	2.44	2.69	2.76	2.80	2.58	3.31	3.76	2.31	2.25	
Sep.	2.75	2.88	2.77	2.48	2.75	3.20	4.27	2.24	2.14	
Oct.	2.81	2.74	2.41	2.65	2.73	3.30	5.25	2.42	2.39	
Nov.	2.96	2.94	2.69	2.39	2.70	3.32	5.14	2.21	2.12	

<sup>1</sup> Sectoral reclassification of debt securities.

## I. Yields

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

% per annum

Period	Total <sup>1</sup>	Bank debt securities						Corporate bonds (non-MFIs)
		Total	Mortgage Pfandbriefe	Public Pfandbriefe	Debt securities issued by special purpose credit institutions	Other bank debt securities		
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 <sup>2</sup>	0.11	0.28	0.15	0.16	–	1.20	2.07	
2017 <sup>2</sup>	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 <sup>3</sup>	–	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	
2024	2.65	2.94	2.92	2.93	2.79	3.69	3.65	
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	
July	2.80	3.09	3.09	3.11	2.93	3.78	3.74	
Aug.	2.53	2.81	2.79	2.82	2.65	3.52	3.58	
Sep.	2.46	2.71	2.67	2.70	2.57	3.39	3.53	
Oct.	2.48	2.71	2.68	2.68	2.58	3.33	3.49	
Nov.	2.53	2.72	2.66	2.68	2.63	3.29	3.52	
Dec.	2.41	2.61	2.59	2.62	2.49	3.18	3.40	
2024 Dec. <sup>9</sup>	2.34	2.53	2.52	2.55	2.41	3.12	3.32	
10	2.34	2.53	2.52	2.55	2.42	3.11	3.31	
11	2.34	2.53	2.51	2.54	2.41	3.10	3.31	
12	2.37	2.56	2.54	2.57	2.45	3.12	3.33	
13	2.43	2.62	2.60	2.64	2.51	3.19	3.41	
16	2.45	2.65	2.62	2.65	2.53	3.21	3.42	
17	2.44	2.64	2.61	2.65	2.52	3.21	3.43	
18	2.45	2.65	2.62	2.66	2.53	3.22	3.43	
19	2.48	2.69	2.66	2.70	2.57	3.26	3.48	
20	2.49	2.69	2.66	2.70	2.57	3.26	3.49	
23	2.50	2.70	2.67	2.71	2.58	3.28	3.50	
27	2.57	2.74	2.72	2.76	2.62	3.32	3.54	
30	2.57	2.76	2.73	2.77	2.64	3.34	3.58	
2025 Jan. <sup>2</sup>	2.55	2.72	2.68	2.72	2.60	3.34	3.56	
3	2.58	2.77	2.73	2.77	2.65	3.38	3.59	
6	2.64	2.83	2.79	2.83	2.70	3.44	3.63	

<sup>1</sup> Yields for comparable categories of residual maturity, see Table I. 2b <sup>2</sup> Sectoral reclassification of debt securities. <sup>3</sup> 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	All public debt securities		of which: Listed Federal securities <sup>1</sup>							of which: With residual maturities of more than...but not more than...years					
				All listed Federal securities						8 - 15						
					3 - 5	5 - 8	Total	of which: 9 - 10 <sup>2</sup>	15 - 30							
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	0.65							
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	–	0.26	–	0.27	–	0.25	0.21					
2020	–	0.19	–	0.40	–	0.49	–	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							
2024	2.65	2.43	2.35		2.27	2.23	2.36	2.32	2.54							
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							
July	2.80	2.58	2.50		2.47	2.39	2.50	2.46	2.67							
Aug.	2.53	2.31	2.23		2.13	2.11	2.26	2.21	2.46							
Sep.	2.46	2.25	2.17		2.01	2.03	2.22	2.17	2.46							
Oct.	2.48	2.29	2.21		2.01	2.07	2.28	2.23	2.53							
Nov.	2.53	2.34	2.26		2.06	2.14	2.35	2.31	2.53							
Dec.	2.41	2.23	2.14		1.95	2.01	2.23	2.18	2.41							
2024 Dec. 9	2.34	2.15	2.07		1.91	1.95	2.14	2.09	2.31							
10	2.34	2.16	2.08		1.90	1.95	2.15	2.11	2.34							
11	2.34	2.15	2.07		1.89	1.94	2.15	2.10	2.33							
12	2.37	2.19	2.11		1.91	1.97	2.20	2.15	2.40							
13	2.43	2.26	2.17		1.97	2.04	2.26	2.21	2.45							
16	2.45	2.27	2.19		1.98	2.05	2.27	2.22	2.46							
17	2.44	2.26	2.18		1.98	2.04	2.27	2.22	2.46							
18	2.45	2.27	2.19		1.98	2.05	2.28	2.23	2.47							
19	2.48	2.30	2.21		2.01	2.08	2.31	2.26	2.48							
20	2.49	2.31	2.22		1.99	2.09	2.33	2.28	2.52							
23	2.50	2.32	2.23		2.01	2.10	2.34	2.29	2.52							
27	2.57	2.39	2.31		2.08	2.17	2.42	2.37	2.60							
30	2.57	2.39	2.31		2.08	2.18	2.42	2.37	2.61							
2025 Jan. 2	2.55	2.36	2.29		2.05	2.14	2.39	2.34	2.58							
3	2.58	2.40	2.32		2.10	2.17	2.41	2.36	2.60							
6	2.64	2.46	2.38		2.17	2.25	2.47	2.43	2.65							

<sup>1</sup> 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. <sup>2</sup> 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	
<b>Debt securities, total</b>										
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	–	0.8
2016	–	0.4	–	0.3	–	0.2	–	0.1	–	0.0
2017	–	0.6	–	0.4	–	0.3	–	0.0	–	0.1
2018	–	0.4	–	0.3	–	0.1	–	0.2	–	0.4
2019	–	0.5	–	0.4	–	0.3	–	0.1	–	0.0
2020	1	–	0.4	–	0.3	–	0.2	–	0.2	–
2021	–	0.5	–	0.4	–	0.3	–	0.2	–	0.2
2022	–	1.0	–	1.3	–	1.5	–	1.5	–	1.4
2023	–	3.5	–	3.3	–	2.9	–	2.9	–	2.8
2024	–	3.1	–	2.8	–	2.6	–	2.6	–	2.7
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
July	3.25	3.01	2.83	2.81	2.83	2.74	2.78	2.74	2.73	2.72
Aug.	2.89	2.65	2.50	2.51	2.53	2.47	2.56	2.51	2.48	2.53
Sep.	2.66	2.46	2.36	2.41	2.42	2.39	2.53	2.46	2.41	2.47
Oct.	2.55	2.38	2.36	2.40	2.44	2.41	2.58	2.50	2.44	2.49
Nov.	2.50	2.36	2.39	2.47	2.50	2.50	2.61	2.56	2.52	2.53
Dec.	2.41	2.25	2.26	2.35	2.38	2.40	2.49	2.43	2.39	2.40
2024 Dec. 9	2.41	2.22	2.22	2.29	2.31	2.33	2.40	2.35	2.31	2.32
10	2.39	2.21	2.21	2.28	2.31	2.33	2.42	2.36	2.32	2.33
11	2.37	2.18	2.19	2.28	2.30	2.32	2.41	2.35	2.31	2.33
12	2.39	2.20	2.21	2.30	2.33	2.35	2.46	2.39	2.35	2.37
13	2.42	2.26	2.27	2.37	2.39	2.42	2.52	2.45	2.42	2.43
16	2.44	2.28	2.29	2.38	2.41	2.44	2.53	2.47	2.43	2.44
17	2.44	2.28	2.29	2.38	2.40	2.43	2.53	2.46	2.42	2.44
18	2.44	2.28	2.29	2.39	2.41	2.44	2.54	2.47	2.44	2.45
19	2.45	2.30	2.32	2.43	2.45	2.48	2.57	2.51	2.47	2.49
20	2.42	2.29	2.31	2.42	2.45	2.48	2.59	2.52	2.49	2.50
23	2.43	2.30	2.32	2.43	2.46	2.49	2.60	2.53	2.50	2.51
27	2.45	2.34	2.37	2.49	2.53	2.55	2.67	2.59	2.57	2.58
30	2.45	2.35	2.38	2.49	2.54	2.56	2.68	2.61	2.58	2.59
2025 Jan. 2	2.44	2.29	2.36	2.44	2.49	2.60	2.65	2.57	2.54	2.55
3	2.50	2.34	2.42	2.49	2.53	2.64	2.67	2.60	2.57	2.58
6	2.54	2.41	2.48	2.55	2.59	2.70	2.73	2.66	2.63	2.64

\* 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	
<b>Bank debt securities</b>										
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	0.2	0.3	0.4	0.8
2017	–	0.3	–	0.2	–	0.2	0.3	0.4	0.7	0.9
2018	–	0.2	–	0.0	–	0.2	0.3	0.4	0.9	1.0
2019	–	0.2	–	0.1	–	0.2	–	0.1	0.1	0.3
2020	1	–	0.2	–	0.3	–	0.2	–	0.1	0.1
2021	–	0.5	–	0.4	–	0.3	–	0.2	–	0.0
2022	–	1.2	–	1.5	–	1.7	–	1.9	–	2.0
2023	3.6	3.5	3.4	3.3	3.3	3.3	3.3	3.3	3.2	3.2
2024	3.2	3.0	2.9	2.9	2.9	2.9	3.0	2.9	2.9	3.1
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
July	3.41	3.17	3.11	3.05	3.05	3.07	3.12	3.00	3.04	3.24
Aug.	3.09	2.82	2.78	2.75	2.76	2.79	2.89	2.74	2.79	3.04
Sep.	2.88	2.62	2.62	2.64	2.64	2.72	2.84	2.68	2.75	2.98
Oct.	2.70	2.56	2.58	2.64	2.64	2.74	2.86	2.70	2.78	2.97
Nov.	2.63	2.56	2.59	2.67	2.68	2.76	2.87	2.72	2.80	2.92
Dec.	2.52	2.45	2.45	2.54	2.57	2.62	2.77	2.59	2.71	2.83
2024 Dec. 9	2.52	2.43	2.41	2.47	2.48	2.54	2.69	2.51	2.63	2.75
10	2.49	2.41	2.39	2.46	2.49	2.55	2.70	2.52	2.63	2.77
11	2.48	2.40	2.36	2.47	2.49	2.53	2.69	2.52	2.63	2.76
12	2.49	2.40	2.40	2.50	2.51	2.58	2.73	2.55	2.66	2.80
13	2.50	2.46	2.47	2.56	2.58	2.64	2.79	2.61	2.72	2.85
16	2.54	2.48	2.49	2.59	2.61	2.66	2.80	2.63	2.74	2.87
17	2.54	2.48	2.49	2.57	2.60	2.65	2.79	2.62	2.73	2.86
18	2.55	2.48	2.49	2.59	2.61	2.66	2.80	2.63	2.74	2.87
19	2.57	2.52	2.52	2.63	2.66	2.70	2.85	2.67	2.79	2.91
20	2.55	2.50	2.52	2.62	2.66	2.71	2.86	2.68	2.80	2.93
23	2.55	2.51	2.53	2.64	2.65	2.72	2.87	2.69	2.81	2.92
27	2.56	2.53	2.56	2.66	2.73	2.77	2.91	2.74	2.86	2.96
30	2.56	2.53	2.57	2.68	2.74	2.78	2.93	2.76	2.88	2.98
2025 Jan. 2	2.54	2.50	2.53	2.63	2.69	2.74	2.93	2.72	2.84	2.97
3	2.61	2.53	2.60	2.67	2.74	2.79	2.95	2.75	2.87	3.00
6	2.64	2.60	2.67	2.72	2.80	2.84	3.00	2.81	2.91	3.05

\* 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	
<b>Mortgage Pfandbriefe</b>										
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	0.4
2017	–	0.2	–	0.1	–	0.1	0.2	0.6	0.4	0.7
2018	–	0.3	–	0.1	–	0.2	0.4	0.5	0.7	0.9
2019	–	0.3	–	0.3	–	0.2	–	0.1	–	0.3
2020	–	0.3	–	0.3	–	0.3	–	0.2	–	0.1
2021	–	0.5	–	0.4	–	0.3	–	0.2	–	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
2024	3.2	3.0	2.9	2.9	2.9	2.9	3.0	2.9	2.9	3.0
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
July	3.37	3.24	3.09	3.09	3.07	3.06	3.10	3.05	3.05	3.09
Aug.	3.02	2.85	2.74	2.77	2.77	2.78	2.86	2.78	2.79	2.88
Sep.	2.81	2.65	2.56	2.64	2.64	2.68	2.79	2.69	2.72	2.82
Oct.	2.66	2.57	2.54	2.64	2.69	2.68	2.82	2.74	2.73	2.83
Nov.	2.57	2.54	2.54	2.64	2.65	2.68	2.80	2.71	2.73	2.80
Dec.	2.49	2.47	2.45	2.56	2.54	2.60	2.74	2.64	2.67	2.76
2024 Dec.	9	2.50	2.43	2.41	2.49	2.48	2.52	2.56	2.59	2.68
10	2.47	2.42	2.39	2.49	2.46	2.53	2.67	2.57	2.59	2.69
11	2.46	2.41	2.37	2.48	2.45	2.52	2.67	2.57	2.58	2.69
12	2.47	2.42	2.40	2.50	2.49	2.55	2.71	2.61	2.63	2.72
13	2.39	2.48	2.46	2.57	2.55	2.62	2.76	2.66	2.70	2.78
16	2.53	2.50	2.48	2.59	2.57	2.64	2.77	2.68	2.71	2.80
17	2.53	2.51	2.48	2.58	2.57	2.63	2.76	2.66	2.69	2.78
18	2.52	2.51	2.48	2.60	2.58	2.64	2.78	2.68	2.71	2.80
19	2.54	2.53	2.52	2.64	2.62	2.68	2.82	2.72	2.76	2.84
20	2.51	2.52	2.51	2.63	2.62	2.69	2.83	2.73	2.76	2.86
23	2.52	2.53	2.52	2.65	2.64	2.69	2.84	2.73	2.77	2.86
27	2.53	2.55	2.56	2.69	2.69	2.75	2.90	2.79	2.83	2.92
30	2.52	2.55	2.56	2.70	2.70	2.77	2.91	2.81	2.84	2.93
2025 Jan.	2	2.50	2.52	2.51	2.64	2.64	2.71	2.87	2.77	2.90
3	2.57	2.58	2.57	2.70	2.69	2.76	2.90	2.81	2.81	2.92
6	2.63	2.63	2.64	2.76	2.75	2.82	2.96	2.87	2.88	2.98

\* 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	
<b>Public Pfandbriefe</b>										
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	0.1	0.1	0.1	0.5	0.3	0.4	0.4
2017	-	0.2	0.1	0.0	0.1	0.2	0.7	0.5	0.6	0.7
2018	-	0.2	0.1	0.1	0.2	0.4	0.9	0.6	0.7	0.9
2019	-	0.3	0.2	0.2	0.1	0.0	0.3	0.1	0.2	0.3
2020	1	0.3	0.3	0.3	0.2	0.2	0.0	0.2	0.1	0.1
2021	-	0.5	0.4	0.3	0.3	0.2	0.1	0.1	0.0	0.1
2022	-	1.3	1.6	1.6	1.7	1.8	2.0	1.8	1.9	2.0
2023	-	3.7	3.4	3.3	3.2	3.2	3.3	3.2	3.2	3.2
2024	-	3.1	3.0	2.9	2.9	2.9	3.0	2.9	2.9	2.9
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	3.25	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
July	3.38	3.19	3.14	3.05	3.04	3.06	3.15	3.04	3.02	3.11
Aug.	3.01	2.82	2.80	2.74	2.73	2.79	2.90	2.77	2.76	2.85
Sep.	2.77	2.61	2.63	2.62	2.60	2.68	2.83	2.68	2.69	2.77
Oct.	2.64	2.53	2.57	2.61	2.59	2.66	2.83	2.67	2.71	2.77
Nov.	2.56	2.49	2.57	2.60	2.60	2.63	2.82	2.64	2.71	2.76
Dec.	2.50	2.44	2.49	2.54	2.57	2.63	2.77	2.63	2.66	2.69
2024 Dec. 9	2.50	2.40	2.45	2.47	2.49	2.55	2.67	2.54	2.56	2.60
10	2.48	2.39	2.44	2.47	2.49	2.56	2.69	2.56	2.57	2.62
11	2.47	2.37	2.42	2.46	2.50	2.54	2.69	2.55	2.59	2.61
12	2.47	2.39	2.44	2.49	2.52	2.58	2.73	2.58	2.62	2.64
13	2.52	2.45	2.50	2.55	2.58	2.63	2.79	2.63	2.69	2.71
16	2.54	2.47	2.52	2.57	2.61	2.67	2.80	2.67	2.70	2.72
17	2.54	2.47	2.52	2.57	2.59	2.66	2.79	2.65	2.69	2.72
18	2.54	2.48	2.53	2.59	2.61	2.66	2.81	2.67	2.71	2.73
19	2.55	2.50	2.57	2.62	2.66	2.72	2.85	2.71	2.75	2.78
20	2.53	2.48	2.55	2.61	2.65	2.71	2.86	2.72	2.76	2.79
23	2.53	2.49	2.57	2.63	2.66	2.72	2.87	2.73	2.77	2.80
27	2.54	2.52	2.61	2.68	2.72	2.77	2.93	2.79	2.82	2.85
30	2.56	2.51	2.60	2.68	2.72	2.79	2.94	2.80	2.83	2.86
2025 Jan. 2	2.55	2.47	2.56	2.63	2.67	2.74	2.89	2.76	2.78	2.81
3	2.61	2.54	2.62	2.69	2.71	2.78	2.94	2.79	2.83	2.86
6	2.64	2.60	2.68	2.76	2.78	2.83	2.98	2.84	2.88	2.91

\* 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		
<b>Public debt securities</b>											
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	–	0.0	0.7	0.3	0.4	0.6	
2016	–	0.6	–	0.5	–	0.4	–	0.2	0.1	0.2	
2017	–	0.7	–	0.6	–	0.4	–	0.0	0.1	0.4	
2018	–	0.6	–	0.5	–	0.2	0.0	0.2	0.3	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	–	1.1	1.2	–	1.3
2023	–	3.1	–	2.8	–	2.7	–	2.6	2.5	–	2.6
2024	–	2.7	–	2.5	–	2.4	–	2.3	2.3	–	2.4
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	
July	2.96	2.70	2.55	2.52	2.50	2.48	2.64	2.48	2.51	2.53	
Aug.	2.56	2.32	2.21	2.20	2.19	2.19	2.42	2.22	2.25	2.28	
Sep.	2.36	2.14	2.06	2.09	2.09	2.11	2.39	2.16	2.19	2.23	
Oct.	2.22	2.09	2.06	2.09	2.12	2.15	2.45	2.21	2.25	2.29	
Nov.	2.19	2.10	2.11	2.16	2.20	2.23	2.49	2.29	2.33	2.37	
Dec.	2.08	1.98	1.99	2.05	2.07	2.11	2.37	2.16	2.21	2.24	
2024 Dec.	9	2.09	1.96	1.95	2.00	2.01	2.05	2.28	2.09	2.12	2.15
10	2.06	1.95	1.94	1.99	2.01	2.05	2.30	2.09	2.13	2.17	
11	2.03	1.92	1.93	1.98	2.00	2.04	2.30	2.09	2.13	2.16	
12	2.05	1.94	1.95	2.01	2.03	2.07	2.35	2.13	2.17	2.21	
13	2.09	2.01	2.01	2.07	2.10	2.14	2.41	2.19	2.24	2.27	
16	2.11	2.01	2.03	2.09	2.11	2.15	2.42	2.20	2.25	2.28	
17	2.10	2.01	2.02	2.09	2.11	2.15	2.41	2.19	2.24	2.28	
18	2.10	2.01	2.02	2.09	2.12	2.15	2.42	2.20	2.25	2.29	
19	2.11	2.02	2.05	2.13	2.15	2.19	2.45	2.24	2.29	2.32	
20	2.09	2.00	2.03	2.11	2.15	2.19	2.47	2.25	2.30	2.34	
23	2.09	2.02	2.05	2.13	2.16	2.20	2.48	2.26	2.31	2.35	
27	2.12	2.07	2.11	2.19	2.23	2.27	2.56	2.33	2.39	2.43	
30	2.11	2.07	2.11	2.20	2.23	2.27	2.56	2.34	2.40	2.43	
2025 Jan.	2	2.10	2.03	2.08	2.16	2.20	2.53	2.30	2.36	2.40	
3	2.16	2.10	2.13	2.21	2.24	2.29	2.55	2.33	2.39	2.42	
6	2.21	2.17	2.20	2.27	2.31	2.36	2.61	2.40	2.45	2.49	

\* 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 <sup>1</sup>	Highest rate <sup>2</sup>	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
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
2024	2.35	2.01	2.75	2.27	1.83	2.77	2.23	1.88	2.66	2.36	2.09	2.72
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
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
July	2.50	2.33	2.64	2.47	2.26	2.62	2.39	2.21	2.54	2.50	2.34	2.64
Aug.	2.23	2.12	2.30	2.13	2.02	2.23	2.11	1.99	2.17	2.26	2.15	2.30
Sep.	2.17	2.10	2.32	2.01	1.90	2.20	2.03	1.95	2.19	2.22	2.14	2.36
Oct.	2.21	2.04	2.37	2.01	1.84	2.19	2.07	1.88	2.26	2.28	2.10	2.44
Nov.	2.26	2.07	2.41	2.06	1.90	2.20	2.14	1.95	2.28	2.35	2.14	2.52
Dec.	2.14	2.01	2.31	1.95	1.83	2.08	2.01	1.88	2.18	2.23	2.09	2.42

<sup>1</sup> Historical low: -0.83 on 12 March 2020. <sup>2</sup> 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
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	–	0.19	.	0.92
2017	–	0.62	–	0.42	.	1.25
2018	–	0.63	–	0.23	.	0.86
2019	–	0.62	–	0.21	.	0.33
2020	–	0.71	–	0.56	–	0.38
2021	–	0.64	–	0.21	–	0.01
2022	–	2.71	–	2.49	–	2.61
2023	–	2.39	–	1.93	–	2.02
2024	–	2.09	–	2.21	–	2.39
2020 Dec.	–	0.71	–	0.68	–	0.56
2021 Jan.	–	0.74	–	0.73	–	0.52
Feb.	–	0.66	–	0.56	–	0.25
Mar.	–	0.69	–	0.62	–	0.51
Apr.	–	0.69	–	0.57	–	0.37
May	–	0.66	–	0.55	–	0.34
June	–	0.66	–	0.58	–	0.38
July	–	0.76	–	0.73	–	0.62
Aug.	–	0.74	–	0.70	–	0.60
Sep.	–	0.70	–	0.56	–	0.41
Oct.	–	0.62	–	0.41	–	0.26
Nov.	–	0.77	–	0.65	–	0.53
Dec.	–	0.64	–	0.47	–	0.38
2022 Jan.	–	0.57	–	0.26	–	0.21
Feb.	–	0.45	–	0.05	–	0.01
Mar.	–	0.04	–	0.43	–	0.60
Apr.	–	0.23	–	0.69	–	0.73
May	–	0.45	–	0.79	–	0.86
June	–	0.70	–	1.14	–	1.21
July	–	0.30	–	0.60	–	0.63
Aug.	–	1.17	–	1.36	–	1.35
Sep.	–	1.75	–	1.96	–	1.96
Oct.	–	1.94	–	2.03	–	2.11
Nov.	–	2.15	–	1.98	–	1.91
Dec.	–	2.71	–	2.53	–	2.49
2023 Jan.	–	2.65	–	2.32	–	2.27
Feb.	–	3.14	–	2.73	–	2.67
Mar.	–	2.74	–	2.42	–	2.37
Apr.	–	2.69	–	2.35	–	2.33
May	–	2.72	–	2.27	–	2.25
June	–	3.20	–	2.58	–	2.51
July	–	3.07	–	2.57	–	2.52
Aug.	–	3.00	–	2.51	–	2.48
Sep.	–	3.23	–	2.81	–	2.80
Oct.	–	3.00	–	2.64	–	2.67
Nov.	–	2.78	–	2.33	–	2.33
Dec.	–	2.39	–	1.94	–	1.93
2024 Jan.	–	2.50	–	2.12	–	2.13
Feb.	–	2.97	–	2.52	–	2.47
Mar.	–	2.86	–	2.35	–	2.29
Apr.	–	2.98	–	2.57	–	2.52
May	–	3.12	–	2.74	–	2.69
June	–	2.81	–	2.46	–	2.43
July	–	2.54	–	2.25	–	2.25
Aug.	–	2.35	–	2.15	–	2.15
Sep.	–	2.11	–	1.99	–	2.02
Oct.	–	2.27	–	2.28	–	2.29
Nov.	–	2.01	–	1.97	–	1.99
Dec.	–	2.09	–	2.18	–	2.21
2024 Dec. 9	–	2.00	–	1.97	–	1.99
10	–	1.99	–	1.97	–	1.98
11	–	1.95	–	1.96	–	1.97
12	–	1.97	–	1.99	–	2.01
13	–	2.03	–	2.05	–	2.07
16	–	2.04	–	2.07	–	2.09
17	–	2.04	–	2.06	–	2.08
18	–	2.03	–	2.07	–	2.09
19	–	2.04	–	2.10	–	2.12
20	–	2.02	–	2.09	–	2.12
23	–	2.03	–	2.11	–	2.13
27	–	2.09	–	2.18	–	2.21
30	–	2.09	–	2.18	–	2.21
2025 Jan. 2	–	2.06	–	2.15	–	2.17
3	–	2.12	–	2.19	–	2.21
6	–	2.19	–	2.26	–	2.28

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					
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	–	0.25				
2016	–	0.59	–	0.84	–	0.36	–	0.41	–	0.63				
2017	–	0.72	–	0.96	–	0.58	–	0.34	–	0.59				
2018	–	0.59	–	0.82	–	0.50	–	0.14	–	0.40				
2019	–	0.67	–	0.94	–	0.51	–	0.55	–	0.96				
2020	–	0.71	–	1.02	–	0.59	–	0.68	–	0.96				
2021	–	0.70	–	0.79	–	0.60	–	0.62	–	0.77				
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		
2024	2.56	–	1.90	3.12	2.27	–	1.90	2.74	2.26	–	1.92	2.69		
2020 Dec.	–	0.75	–	0.79	–	0.71	–	0.77	–	0.81	–	0.72	–	0.65
2021 Jan.	–	0.72	–	0.75	–	0.70	–	0.73	–	0.77	–	0.69	–	0.63
Feb.	–	0.71	–	0.73	–	0.66	–	0.66	–	0.73	–	0.56	–	0.47
Mar.	–	0.70	–	0.72	–	0.67	–	0.64	–	0.69	–	0.60	–	0.51
Apr.	–	0.70	–	0.72	–	0.68	–	0.62	–	0.66	–	0.57	–	0.37
May	–	0.67	–	0.70	–	0.65	–	0.55	–	0.61	–	0.49	–	0.27
June	–	0.67	–	0.70	–	0.65	–	0.59	–	0.64	–	0.56	–	0.36
July	–	0.70	–	0.76	–	0.67	–	0.65	–	0.74	–	0.57	–	0.39
Aug.	–	0.75	–	0.79	–	0.74	–	0.73	–	0.77	–	0.70	–	0.59
Sep.	–	0.71	–	0.73	–	0.69	–	0.63	–	0.69	–	0.54	–	0.39
Oct.	–	0.67	–	0.71	–	0.62	–	0.50	–	0.59	–	0.41	–	0.25
Nov.	–	0.73	–	0.78	–	0.60	–	0.56	–	0.65	–	0.40	–	0.26
Dec.	–	0.70	–	0.74	–	0.64	–	0.57	–	0.63	–	0.47	–	0.38
2022 Jan.	–	0.60	–	0.65	–	0.57	–	0.36	–	0.44	–	0.26	–	0.21
Feb.	–	0.40	–	0.50	–	0.24	–	0.03	–	0.24	–	0.08	–	0.12
Mar.	–	0.39	–	0.78	–	0.00	–	0.05	–	0.39	–	0.50	–	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		
May	2.98	–	2.89	3.12	2.57	–	2.47	2.74	2.51	–	2.41	2.69		
June	2.90	–	2.76	3.08	2.52	–	2.38	2.69	2.48	–	2.34	2.65		
July	2.79	–	2.54	2.94	2.45	–	2.25	2.60	2.43	–	2.25	2.58		
Aug.	2.39	–	2.25	2.51	2.14	–	2.02	2.22	2.14	–	2.03	2.21		
Sep.	2.21	–	2.08	2.42	2.04	–	1.96	2.22	2.06	–	1.98	2.23		
Oct.	2.16	–	2.04	2.28	2.08	–	1.90	2.28	2.11	–	1.92	2.29		
Nov.	2.12	–	1.98	2.28	2.15	–	1.97	2.29	2.18	–	1.99	2.32		
Dec.	2.01	–	1.90	2.09	2.03	–	1.90	2.18	2.05	–	1.92	2.21		

## 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									
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	–	0.31	–	0.04	–	0.50	0.36					
2021	–	0.31	–	0.61	–	0.08	–	0.08	–	0.43	–	0.22	0.48					
2022	1.18	–	0.18	2.51	1.34	0.01	2.67	1.32	0.14	2.55								
2023	2.46	1.92	2.97	2.61	2.12	3.16	2.56	1.97	3.18									
2024	2.34	2.06	2.70	2.56	2.28	2.88	2.54	2.29	2.81									
2020 Dec.	–	0.58	–	0.63	–	0.52	–	0.40	–	0.46	–	0.32	–	0.17	–	0.23	–	0.10
2021 Jan.	–	0.53	–	0.61	–	0.48	–	0.37	–	0.43	–	0.31	–	0.12	–	0.20	–	0.06
Feb.	–	0.40	–	0.51	–	0.25	–	0.20	–	0.34	–	0.05	–	0.08	–	0.08	–	0.24
Mar.	–	0.32	–	0.37	–	0.26	–	0.04	–	0.11	–	0.04	–	0.21	–	0.16	–	0.29
Apr.	–	0.27	–	0.33	–	0.20	–	0.02	–	0.04	–	0.09	–	0.28	–	0.22	–	0.35
May	–	0.16	–	0.23	–	0.09	–	0.13	–	0.06	–	0.22	–	0.40	–	0.33	–	0.48
June	–	0.20	–	0.29	–	0.16	–	0.08	–	0.02	–	0.12	–	0.32	–	0.25	–	0.38
July	–	0.34	–	0.45	–	0.19	–	0.09	–	0.19	–	0.07	–	0.14	–	0.04	–	0.31
Aug.	–	0.46	–	0.50	–	0.41	–	0.22	–	0.27	–	0.16	–	0.01	–	0.06	–	0.06
Sep.	–	0.31	–	0.39	–	0.20	–	0.05	–	0.14	–	0.06	–	0.20	–	0.10	–	0.30
Oct.	–	0.15	–	0.23	–	0.08	–	0.07	–	0.03	–	0.12	–	0.28	–	0.13	–	0.38
Nov.	–	0.25	–	0.36	–	0.10	–	0.08	–	0.17	–	0.04	–	0.07	–	0.03	–	0.17
Dec.	–	0.33	–	0.39	–	0.21	–	0.15	–	0.23	–	0.01	–	0.01	–	0.11	–	0.15
2022 Jan.	–	0.06	–	0.18	–	0.01	–	0.09	–	0.01	–	0.15	–	0.25	–	0.17	–	0.30
Feb.	–	0.19	–	0.01	–	0.31	–	0.31	–	0.13	–	0.44	–	0.42	–	0.27	–	0.56
Mar.	–	0.32	–	0.07	–	0.65	–	0.45	–	0.06	–	0.73	–	0.50	–	0.14	–	0.75
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	1.07	1.18	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									
May	2.53	2.42	2.70	2.71	2.61	2.88	2.65	2.56	2.81									
June	2.49	2.37	2.66	2.69	2.58	2.84	2.65	2.54	2.79									
July	2.49	2.33	2.63	2.70	2.56	2.83	2.67	2.56	2.79									
Aug.	2.23	2.13	2.29	2.48	2.38	2.53	2.46	2.39	2.51									
Sep.	2.18	2.10	2.33	2.46	2.38	2.60	2.46	2.38	2.58									
Oct.	2.24	2.06	2.41	2.53	2.37	2.66	2.54	2.39	2.64									
Nov.	2.32	2.11	2.48	2.55	2.35	2.74	2.54	2.33	2.74									
Dec.	2.19	2.06	2.39	2.44	2.29	2.63	2.42	2.29	2.63									