

## II. Term structure of interest rates in the debt securities market \*

### a) Term structure of interest rates in the debt securities market - estimated values, listed Federal securities

% per annum

		Interest rate at a residual maturity of ... years									
End of year or month or trading day		1	2	3	4	5	6	7	8	9	10
2013		0.13	0.24	0.44	0.69	0.95	1.21	1.47	1.70	1.92	2.11
2014		0.10	0.10	0.10	0.06	0.02	0.12	0.24	0.36	0.49	0.60
2015		0.39	0.35	0.26	0.14	0.01	0.13	0.28	0.42	0.56	0.70
2016		0.84	0.80	0.76	0.65	0.51	0.35	0.18	0.03	0.10	0.22
2017		0.72	0.64	0.50	0.34	0.18	0.02	0.12	0.25	0.37	0.48
2018		0.70	0.65	0.56	0.44	0.31	0.18	0.06	0.06	0.16	0.25
2019		0.69	0.63	0.58	0.54	0.49	0.44	0.37	0.31	0.25	0.19
2020		0.73	0.75	0.77	0.77	0.75	0.72	0.68	0.65	0.61	0.57
2021		0.73	0.68	0.62	0.56	0.50	0.44	0.38	0.33	0.28	0.24
2022		2.39	2.59	2.55	2.50	2.47	2.47	2.48	2.50	2.51	2.53
2023		2.97	2.35	2.04	1.91	1.87	1.88	1.92	1.96	2.01	2.06
2023	July	3.39	3.07	2.80	2.62	2.53	2.48	2.47	2.48	2.50	2.52
	Aug.	3.34	2.98	2.70	2.54	2.47	2.44	2.44	2.46	2.48	2.51
	Sep.	3.58	3.19	2.92	2.80	2.76	2.76	2.78	2.80	2.84	2.87
	Oct.	3.47	3.00	2.74	2.63	2.61	2.63	2.66	2.71	2.76	2.80
	Nov.	3.26	2.77	2.48	2.32	2.26	2.26	2.29	2.34	2.40	2.45
	Dec.	2.97	2.35	2.04	1.91	1.87	1.88	1.92	1.96	2.01	2.06
2024	Jan.	3.12	2.53	2.24	2.11	2.07	2.08	2.11	2.15	2.19	2.24
	Feb.	3.40	2.97	2.70	2.55	2.47	2.44	2.44	2.45	2.48	2.51
	Mar.	3.29	2.82	2.54	2.37	2.29	2.26	2.26	2.27	2.30	2.33
	Apr.	3.34	2.97	2.73	2.59	2.52	2.49	2.48	2.50	2.53	2.56
	May	3.36	3.07	2.88	2.76	2.69	2.65	2.65	2.66	2.68	2.71
	June	3.12	2.78	2.57	2.45	2.39	2.38	2.39	2.42	2.45	2.49
	July	2.95	2.54	2.32	2.22	2.19	2.20	2.22	2.26	2.30	2.35
	Aug.	2.71	2.32	2.15	2.09	2.09	2.12	2.16	2.20	2.25	2.30
	Sep.	2.44	2.05	1.92	1.90	1.93	1.98	2.04	2.10	2.16	2.21
	Oct.	2.46	2.24	2.17	2.17	2.21	2.25	2.31	2.36	2.41	2.46
	Nov.	2.23	1.95	1.88	1.88	1.91	1.96	2.01	2.06	2.11	2.15
	Dec.	2.17	2.02	2.02	2.06	2.13	2.20	2.27	2.33	2.38	2.43
2024	Dec. 3	2.17	1.88	1.81	1.82	1.86	1.91	1.96	2.01	2.06	2.10
	4	2.19	1.91	1.84	1.85	1.88	1.93	1.98	2.03	2.08	2.12
	5	2.18	1.91	1.84	1.85	1.89	1.93	1.98	2.03	2.07	2.11
	6	2.23	1.97	1.91	1.91	1.94	1.99	2.04	2.08	2.12	2.16
	9	2.20	1.94	1.87	1.88	1.92	1.96	2.01	2.06	2.11	2.15
	10	2.18	1.93	1.86	1.87	1.91	1.96	2.02	2.07	2.12	2.17
	11	2.15	1.90	1.84	1.86	1.90	1.96	2.01	2.07	2.12	2.16
	12	2.15	1.91	1.86	1.88	1.93	1.99	2.05	2.11	2.16	2.21
	13	2.18	1.97	1.92	1.95	2.00	2.06	2.12	2.17	2.23	2.28
	16	2.19	1.98	1.94	1.96	2.01	2.07	2.13	2.19	2.24	2.29
	17	2.19	1.98	1.93	1.95	2.00	2.06	2.12	2.18	2.23	2.28
	18	2.18	1.97	1.93	1.96	2.01	2.07	2.13	2.19	2.25	2.29
	19	2.18	1.98	1.95	1.99	2.04	2.10	2.17	2.22	2.27	2.32
	20	2.17	1.96	1.94	1.98	2.04	2.11	2.17	2.23	2.29	2.34
	23	2.17	1.97	1.95	1.99	2.05	2.12	2.19	2.25	2.30	2.35
	27	2.17	2.02	2.01	2.06	2.13	2.19	2.26	2.33	2.38	2.43
	30	2.17	2.02	2.02	2.06	2.13	2.20	2.27	2.33	2.38	2.43
2025	Jan. 2	2.15	1.99	1.98	2.03	2.10	2.17	2.23	2.30	2.35	2.40
	3	2.22	2.06	2.04	2.07	2.13	2.20	2.26	2.32	2.38	2.42
	6	2.28	2.13	2.11	2.14	2.20	2.27	2.33	2.39	2.44	2.49
Memo item: yields, derived from the term structure of interest rates, on listed Federal securities with annual coupon payments											
2024	Dec. 30	2.17	2.02	2.02	2.06	2.13	2.19	2.26	2.31	2.37	2.41
Parameters for calculating the term structure of interest rates											
		Beta0	Beta1	Beta2	Beta3	Tau1	Tau2				
2024	Dec. 30	1.17198	1.55754	0.05323	4.80134	0.65046	12.29743				
2025	Jan. 2	1.13285	1.67030	0.00446	4.83000	0.62749	12.30059				
	3	1.11613	1.62112	0.00587	4.91100	0.77696	12.31693				
	6	1.16174	1.58928	0.00694	4.93299	0.81979	12.05240				

\* Interest rates on (theoretical) zero coupon bonds without a default risk, estimated according to the procedure outlined in the explanatory notes. The estimates are based on the prices of Federal bonds, five-year Federal notes and Federal Treasury notes with

a residual maturity of at least three months. The interest rates are estimated using a non-linear, parametric approach.

## II. Term structure of interest rates in the debt securities market \*

still: a) Term structure of interest rates in the debt securities market - estimated values, listed Federal securities

% per annum

		Interest rate at a residual maturity of ... years									
End of year or month or trading day		11	12	13	14	15	16	17	18	19	20
2013		2.28	2.42	2.55	2.66	2.75	2.82	2.87	2.92	2.95	2.97
2014		0.71	0.81	0.90	0.98	1.05	1.12	1.18	1.23	1.27	1.32
2015		0.82	0.94	1.04	1.14	1.22	1.30	1.36	1.41	1.46	1.50
2016		0.33	0.42	0.49	0.56	0.62	0.67	0.72	0.76	0.80	0.83
2017		0.57	0.66	0.74	0.81	0.87	0.92	0.97	1.02	1.06	1.10
2018		0.33	0.40	0.47	0.52	0.57	0.62	0.66	0.69	0.73	0.76
2019		-	0.14	-	0.04	-	0.00	0.04	0.11	0.13	0.16
2020		-	0.53	-	0.50	-	0.46	-	0.37	-	0.32
2021		-	0.20	-	0.16	-	0.13	-	0.10	-	0.07
2022		2.55	2.56	2.57	2.57	2.58	2.58	2.57	2.57	2.56	2.55
2023		2.11	2.15	2.19	2.22	2.25	2.27	2.28	2.30	2.30	2.31
2023	July	2.54	2.56	2.58	2.59	2.61	2.62	2.63	2.63	2.63	2.63
	Aug.	2.53	2.56	2.58	2.60	2.62	2.63	2.64	2.65	2.65	2.65
	Sep.	2.90	2.92	2.95	2.97	2.99	3.00	3.02	3.02	3.03	3.03
	Oct.	2.84	2.88	2.92	2.95	2.98	3.00	3.02	3.04	3.05	3.06
	Nov.	2.51	2.56	2.60	2.64	2.66	2.69	2.70	2.71	2.71	2.72
	Dec.	2.11	2.15	2.19	2.22	2.25	2.27	2.28	2.30	2.30	2.31
2024	Jan.	2.28	2.32	2.35	2.38	2.41	2.43	2.44	2.46	2.47	2.47
	Feb.	2.54	2.57	2.60	2.62	2.64	2.65	2.66	2.67	2.68	2.68
	Mar.	2.36	2.39	2.42	2.44	2.46	2.48	2.49	2.50	2.50	2.50
	Apr.	2.59	2.63	2.65	2.68	2.70	2.71	2.72	2.73	2.73	2.73
	May	2.74	2.77	2.80	2.83	2.85	2.87	2.88	2.89	2.89	2.89
	June	2.53	2.57	2.60	2.63	2.65	2.67	2.68	2.69	2.70	2.70
	July	2.39	2.42	2.46	2.49	2.51	2.54	2.55	2.57	2.58	2.58
	Aug.	2.34	2.38	2.41	2.44	2.46	2.49	2.50	2.52	2.53	2.53
	Sep.	2.26	2.31	2.35	2.38	2.42	2.44	2.47	2.48	2.50	2.51
	Oct.	2.50	2.54	2.57	2.60	2.62	2.64	2.65	2.66	2.67	2.67
	Nov.	2.19	2.22	2.25	2.28	2.30	2.31	2.33	2.34	2.35	2.35
	Dec.	2.48	2.52	2.55	2.58	2.60	2.62	2.63	2.64	2.65	2.65
2024	Dec. 3	2.14	2.17	2.20	2.23	2.25	2.27	2.28	2.30	2.30	2.31
	4	2.16	2.19	2.22	2.24	2.26	2.28	2.29	2.30	2.31	2.32
	5	2.15	2.18	2.21	2.23	2.25	2.27	2.28	2.30	2.30	2.31
	6	2.19	2.23	2.25	2.27	2.29	2.30	2.32	2.32	2.33	2.33
	9	2.19	2.22	2.25	2.27	2.29	2.31	2.32	2.33	2.34	2.34
	10	2.21	2.24	2.27	2.30	2.32	2.34	2.36	2.37	2.38	2.38
	11	2.20	2.24	2.27	2.30	2.32	2.34	2.35	2.36	2.37	2.37
	12	2.25	2.29	2.32	2.35	2.38	2.40	2.41	2.42	2.43	2.44
	13	2.32	2.36	2.39	2.42	2.44	2.46	2.47	2.48	2.49	2.50
	16	2.33	2.37	2.40	2.43	2.45	2.47	2.48	2.49	2.50	2.50
	17	2.32	2.36	2.39	2.42	2.44	2.46	2.47	2.48	2.49	2.50
	18	2.34	2.37	2.40	2.43	2.45	2.47	2.49	2.50	2.50	2.51
	19	2.36	2.40	2.43	2.45	2.47	2.49	2.50	2.51	2.52	2.52
	20	2.38	2.42	2.46	2.49	2.51	2.53	2.54	2.55	2.56	2.56
	23	2.40	2.43	2.46	2.49	2.51	2.53	2.54	2.55	2.56	2.56
	27	2.48	2.51	2.55	2.57	2.60	2.61	2.63	2.64	2.65	2.65
	30	2.48	2.52	2.55	2.58	2.60	2.62	2.63	2.64	2.65	2.65
2025	Jan. 2	2.45	2.48	2.52	2.54	2.57	2.59	2.60	2.61	2.62	2.62
	3	2.47	2.51	2.54	2.57	2.59	2.61	2.62	2.63	2.64	2.64
	6	2.54	2.57	2.60	2.63	2.65	2.67	2.68	2.69	2.69	2.70
Memo item: yields, derived from the term structure of interest rates, on listed Federal securities with annual coupon payments											
2024	Dec. 30	2.45	2.49	2.52	2.54	2.56	2.58	2.59	2.60	2.61	2.61
Parameters for calculating the term structure of interest rates											
		Beta0	Beta1	Beta2	Beta3	Tau1	Tau2				
2024	Dec. 30	1.17198	1.55754	0.05323	4.80134	0.65046	12.29743				
2025	Jan. 2	1.13285	1.67030	0.00446	4.83000	0.62749	12.30059				
	3	1.11613	1.62112	0.00587	4.91100	0.77696	12.31693				
	6	1.16174	1.58928	0.00694	4.93299	0.81979	12.05240				

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a residual maturity of at least three months. The interest rates are estimated using a non-linear, parametric approach.

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% per annum

		Interest rate at a residual maturity of ... years													
End of year or month or trading day		21	22	23	24	25	26	27	28	29	30				
2014		1.36	1.39	1.43	1.46	1.48	1.51	1.53	1.55	1.57	1.59				
2015		1.53	1.56	1.57	1.59	1.59	1.60	1.60	1.59	1.59	1.58				
2016		0.86	0.89	0.91	0.94	0.96	0.98	1.00	1.01	1.03	1.04				
2017		1.13	1.16	1.19	1.22	1.24	1.26	1.28	1.30	1.32	1.34				
2018		0.78	0.81	0.83	0.85	0.87	0.89	0.90	0.92	0.93	0.95				
2019		0.21	0.23	0.25	0.26	0.28	0.29	0.31	0.32	0.33	0.34				
2020		-	0.26	-	0.23	-	0.21	-	0.19	-	0.16	-	0.15	-	0.14
2021		0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.12	0.12	0.12	0.12	0.12
2022		2.53	2.52	2.50	2.48	2.47	2.45	2.43	2.41	2.39	2.36	2.36	2.36	2.36	2.36
2023		2.31	2.31	2.30	2.30	2.29	2.28	2.27	2.25	2.24	2.22	2.22	2.22	2.22	2.22
2024		2.65	2.65	2.65	2.64	2.64	2.63	2.62	2.61	2.60	2.59	2.59	2.59	2.59	2.59
2023	July	2.63	2.62	2.62	2.61	2.60	2.58	2.57	2.56	2.54	2.52	2.52	2.52	2.52	2.52
	Aug.	2.65	2.65	2.64	2.63	2.62	2.61	2.60	2.59	2.57	2.56	2.56	2.56	2.56	2.56
	Sep.	3.03	3.03	3.03	3.02	3.02	3.01	3.00	2.99	2.98	2.96	2.96	2.96	2.96	2.96
	Oct.	3.07	3.07	3.07	3.07	3.06	3.06	3.05	3.04	3.03	3.02	3.02	3.02	3.02	3.02
	Nov.	2.71	2.71	2.70	2.69	2.68	2.67	2.66	2.65	2.63	2.62	2.62	2.62	2.62	2.62
	Dec.	2.31	2.31	2.30	2.30	2.29	2.28	2.27	2.25	2.24	2.22	2.22	2.22	2.22	2.22
2024	Jan.	2.48	2.48	2.47	2.47	2.46	2.45	2.44	2.43	2.41	2.40	2.40	2.40	2.40	2.40
	Feb.	2.67	2.67	2.66	2.65	2.64	2.63	2.62	2.60	2.59	2.57	2.57	2.57	2.57	2.57
	Mar.	2.50	2.50	2.49	2.49	2.48	2.47	2.45	2.44	2.43	2.41	2.41	2.41	2.41	2.41
	Apr.	2.73	2.72	2.71	2.70	2.69	2.68	2.66	2.65	2.63	2.62	2.62	2.62	2.62	2.62
	May	2.89	2.89	2.88	2.86	2.85	2.83	2.82	2.80	2.78	2.76	2.76	2.76	2.76	2.76
	June	2.70	2.69	2.68	2.67	2.66	2.65	2.64	2.62	2.61	2.59	2.59	2.59	2.59	2.59
	July	2.59	2.59	2.59	2.58	2.58	2.57	2.56	2.55	2.53	2.52	2.52	2.52	2.52	2.52
	Aug.	2.54	2.54	2.54	2.54	2.53	2.53	2.52	2.51	2.50	2.49	2.49	2.49	2.49	2.49
	Sep.	2.52	2.52	2.53	2.53	2.52	2.52	2.51	2.51	2.50	2.49	2.49	2.49	2.49	2.49
	Oct.	2.68	2.67	2.67	2.67	2.66	2.65	2.64	2.63	2.62	2.60	2.60	2.60	2.60	2.60
	Nov.	2.35	2.35	2.35	2.35	2.34	2.33	2.32	2.32	2.30	2.29	2.29	2.29	2.29	2.29
	Dec.	2.65	2.65	2.65	2.64	2.64	2.63	2.62	2.61	2.60	2.59	2.59	2.59	2.59	2.59
2024	Dec. 3	2.31	2.32	2.31	2.31	2.31	2.30	2.30	2.29	2.28	2.27	2.27	2.27	2.27	2.27
	4	2.32	2.32	2.32	2.31	2.31	2.30	2.29	2.29	2.28	2.27	2.27	2.27	2.27	2.27
	5	2.31	2.31	2.31	2.31	2.30	2.30	2.29	2.28	2.27	2.26	2.26	2.26	2.26	2.26
	6	2.33	2.33	2.33	2.32	2.32	2.31	2.30	2.29	2.28	2.27	2.27	2.27	2.27	2.27
	9	2.34	2.34	2.34	2.34	2.33	2.32	2.31	2.31	2.30	2.28	2.28	2.28	2.28	2.28
	10	2.38	2.38	2.38	2.38	2.37	2.37	2.36	2.35	2.34	2.33	2.33	2.33	2.33	2.33
	11	2.37	2.37	2.37	2.37	2.36	2.35	2.34	2.33	2.32	2.31	2.31	2.31	2.31	2.31
	12	2.44	2.44	2.44	2.43	2.43	2.42	2.41	2.40	2.39	2.38	2.38	2.38	2.38	2.38
	13	2.50	2.50	2.49	2.49	2.48	2.47	2.46	2.45	2.44	2.43	2.43	2.43	2.43	2.43
	16	2.50	2.50	2.50	2.49	2.48	2.47	2.46	2.45	2.44	2.43	2.43	2.43	2.43	2.43
	17	2.50	2.50	2.49	2.49	2.48	2.47	2.46	2.45	2.44	2.43	2.43	2.43	2.43	2.43
	18	2.51	2.51	2.50	2.50	2.49	2.48	2.48	2.46	2.45	2.44	2.44	2.44	2.44	2.44
	19	2.52	2.52	2.52	2.51	2.51	2.50	2.49	2.48	2.47	2.45	2.45	2.45	2.45	2.45
	20	2.57	2.56	2.56	2.56	2.55	2.54	2.53	2.52	2.51	2.50	2.50	2.50	2.50	2.50
	23	2.56	2.56	2.56	2.55	2.54	2.54	2.53	2.51	2.50	2.49	2.49	2.49	2.49	2.49
	27	2.65	2.65	2.64	2.64	2.63	2.62	2.61	2.60	2.59	2.58	2.58	2.58	2.58	2.58
	30	2.65	2.65	2.65	2.64	2.64	2.63	2.62	2.61	2.60	2.59	2.59	2.59	2.59	2.59
2025	Jan. 2	2.62	2.62	2.62	2.61	2.61	2.60	2.59	2.58	2.57	2.55	2.55	2.55	2.55	2.55
	3	2.64	2.64	2.64	2.63	2.62	2.62	2.61	2.59	2.58	2.57	2.57	2.57	2.57	2.57
	6	2.70	2.69	2.69	2.68	2.67	2.66	2.65	2.64	2.63	2.61	2.61	2.61	2.61	2.61
Memo item: yields, derived from the term structure of interest rates, on listed Federal securities with annual coupon payments															
2024	Dec. 30	2.61	2.62	2.61	2.61	2.61	2.60	2.60	2.59	2.58	2.57	2.57	2.57	2.57	2.57
Parameters for calculating the term structure of interest rates															
		Beta0	Beta1	Beta2	Beta3	Tau1	Tau2								
2024	Dec. 30	1.17198	1.55754	0.05323	4.80134	0.65046	12.29743								
2025	Jan. 2	1.13285	1.67030	0.00446	4.83000	0.62749	12.30059								
	3	1.11613	1.62112	0.00587	4.91100	0.77696	12.31693								
	6	1.16174	1.58928	0.00694	4.93299	0.81979	12.05240								

\* Interest rates on (theoretical) zero coupon bonds without a default risk, estimated according to the procedure outlined in the explanatory notes. The estimates are based on the prices of Federal bonds, five-year Federal notes and Federal Treasury notes with

a residual maturity of at least three months. The interest rates are estimated using a non-linear, parametric approach.

## II. Term structure of interest rates in the debt securities market \*

### b) Term structure of interest rates in the debt securities market - estimated values, Pfandbriefe

% per annum

		Interest rate at a residual maturity of ... years									
End of year or month or trading day		1	2	3	4	5	6	7	8	9	10
2014		0.25	0.23	0.27	0.34	0.44	0.54	0.65	0.76	0.87	0.97
2015		0.10	0.10	0.14	0.25	0.39	0.54	0.69	0.84	0.97	1.09
2016		0.03	0.07	0.06	0.09	0.16	0.26	0.38	0.51	0.63	0.74
2017		0.12	0.03	0.08	0.20	0.33	0.46	0.59	0.72	0.84	0.95
2018		0.11	0.04	0.04	0.15	0.29	0.44	0.59	0.73	0.85	0.97
2019		0.21	0.20	0.15	0.09	0.02	0.05	0.11	0.18	0.24	0.30
2020		0.42	0.40	0.37	0.34	0.31	0.28	0.25	0.21	0.17	0.13
2021		0.41	0.23	0.07	0.03	0.09	0.15	0.19	0.24	0.29	0.35
2022		3.22	3.33	3.28	3.26	3.26	3.26	3.27	3.28	3.29	3.28
2023		3.53	3.01	2.79	2.71	2.71	2.73	2.76	2.80	2.83	2.86
2024		2.64	2.58	2.61	2.68	2.75	2.82	2.89	2.94	2.99	3.03
2023	July	4.08	3.80	3.57	3.45	3.38	3.35	3.34	3.33	3.33	3.33
	Aug.	4.03	3.74	3.52	3.41	3.35	3.33	3.32	3.32	3.33	3.33
	Sep.	4.18	3.90	3.73	3.66	3.63	3.62	3.63	3.63	3.64	3.65
	Oct.	4.03	3.72	3.55	3.49	3.49	3.52	3.55	3.59	3.61	3.64
	Nov.	3.84	3.49	3.29	3.20	3.16	3.17	3.19	3.22	3.26	3.30
	Dec.	3.53	3.01	2.79	2.71	2.71	2.73	2.76	2.80	2.83	2.86
2024	Jan.	3.62	3.15	2.96	2.90	2.91	2.93	2.96	3.00	3.02	3.05
	Feb.	3.90	3.55	3.35	3.24	3.20	3.18	3.19	3.21	3.23	3.26
	Mar.	3.81	3.43	3.21	3.08	3.01	2.99	2.99	3.01	3.04	3.07
	Apr.	3.85	3.58	3.40	3.29	3.23	3.21	3.21	3.22	3.25	3.28
	May	3.86	3.63	3.47	3.37	3.32	3.29	3.29	3.30	3.32	3.34
	June	3.72	3.42	3.28	3.22	3.20	3.19	3.20	3.22	3.23	3.25
	July	3.50	3.15	2.99	2.93	2.92	2.94	2.98	3.02	3.06	3.10
	Aug.	3.20	2.91	2.81	2.78	2.79	2.83	2.87	2.91	2.96	2.99
	Sep.	2.93	2.61	2.54	2.56	2.61	2.67	2.73	2.79	2.85	2.90
	Oct.	2.81	2.68	2.67	2.69	2.74	2.79	2.84	2.89	2.93	2.97
	Nov.	2.66	2.52	2.49	2.52	2.57	2.63	2.69	2.74	2.78	2.82
	Dec.	2.64	2.58	2.61	2.68	2.75	2.82	2.89	2.94	2.99	3.03
2024	Dec. 3	2.59	2.45	2.42	2.45	2.51	2.57	2.63	2.68	2.73	2.77
	4	2.61	2.47	2.43	2.46	2.51	2.57	2.63	2.68	2.73	2.77
	5	2.61	2.48	2.44	2.46	2.51	2.57	2.63	2.68	2.73	2.77
	6	2.65	2.53	2.49	2.51	2.56	2.61	2.67	2.72	2.76	2.80
	9	2.64	2.51	2.46	2.48	2.53	2.59	2.65	2.71	2.75	2.79
	10	2.62	2.50	2.45	2.47	2.53	2.60	2.66	2.72	2.76	2.80
	11	2.61	2.48	2.43	2.46	2.52	2.59	2.65	2.71	2.76	2.80
	12	2.64	2.48	2.45	2.48	2.54	2.61	2.67	2.73	2.78	2.82
	13	2.66	2.51	2.50	2.55	2.61	2.68	2.74	2.79	2.83	2.87
	16	2.68	2.55	2.54	2.58	2.64	2.70	2.76	2.81	2.85	2.89
	17	2.68	2.55	2.53	2.57	2.63	2.69	2.75	2.80	2.84	2.88
	18	2.66	2.55	2.54	2.58	2.64	2.70	2.75	2.81	2.85	2.89
	19	2.67	2.58	2.57	2.62	2.68	2.75	2.80	2.85	2.90	2.93
	20	2.67	2.55	2.56	2.62	2.69	2.76	2.82	2.88	2.92	2.96
	23	2.67	2.56	2.58	2.64	2.70	2.77	2.83	2.88	2.93	2.96
	27	2.65	2.58	2.61	2.67	2.75	2.82	2.88	2.93	2.97	3.01
	30	2.64	2.58	2.61	2.68	2.75	2.82	2.89	2.94	2.99	3.03
2025	Jan. 2	2.66	2.55	2.56	2.63	2.71	2.78	2.85	2.91	2.96	3.00
	3	2.68	2.61	2.62	2.68	2.74	2.81	2.88	2.93	2.98	3.02
	6	2.73	2.65	2.67	2.73	2.80	2.86	2.92	2.97	3.02	3.06
Memo item: yields, derived from the term of structure of interest rates, on Pfandbriefe with annual coupon payments											
2024	Dec. 30	2.64	2.58	2.61	2.67	2.75	2.81	2.87	2.92	2.96	3.00
Parameters for calculating the term structure of interest rates											
		Beta0	Beta1	Beta2	Beta3	Tau1	Tau2				
2024	Dec. 30	3.39279	0.48241	-1.56632	-2.31353	0.26734	1.47910				
2025	Jan. 2	3.38295	5.14230	-6.48654	-2.59511	0.11493	1.44507				
	3	3.41213	0.27586	-2.53813	-1.54757	1.55234	0.30616				
	6	3.41348	0.18134	-2.36972	-1.22782	1.49093	0.28774				

\* Interest rates on (theoretical) zero coupon bonds, estimated according to the procedure outlined in the explanatory notes. The estimates are based on the prices of Pfandbriefe (mortgage Pfandbriefe and public Pfandbriefe) with a residual maturity of

at least three months. The interest rates are estimated using a non-linear, parametric approach.

II. Term structure of interest rates in the debt securities market \*

b) Term structure of interest rates in the debt securities market - estimated values, Pfandbriefe

% per annum

		Interest rate at a residual maturity of ... years									
End of year or month or trading day		11	12	13	14	15	16	17	18	19	20
2014		.	.	.	.	.	.	.	.	.	.
2015		.	.	.	.	.	.	.	.	.	.
2016		.	.	.	.	.	.	.	.	.	.
2017		1.05	1.15	1.24	1.32	1.39	1.46	1.52	1.57	1.62	1.67
2018		1.07	1.17	1.25	1.32	1.38	1.44	1.49	1.54	1.58	1.62
2019		0.36	0.41	0.47	0.52	0.57	0.62	0.66	0.71	0.76	0.81
2020		–	0.09	–	0.05	–	0.01	0.04	0.13	0.22	0.32
2021		0.41	0.46	0.52	0.58	0.63	0.69	0.74	0.79	0.84	0.89
2022		3.28	3.27	3.26	3.25	3.23	3.21	3.19	3.17	3.15	3.13
2023		2.88	2.90	2.92	2.94	2.96	2.97	2.98	2.99	3.00	3.01
2024		3.06	3.08	3.11	3.13	3.15	3.16	3.17	3.19	3.20	3.21
2023	July	3.33	3.33	3.33	3.33	3.34	3.34	3.34	3.34	3.34	3.34
	Aug.	3.34	3.35	3.35	3.36	3.36	3.37	3.37	3.37	3.38	3.38
	Sep.	3.66	3.67	3.68	3.69	3.69	3.70	3.70	3.71	3.71	3.72
	Oct.	3.66	3.68	3.69	3.71	3.72	3.73	3.74	3.75	3.75	3.76
	Nov.	3.33	3.36	3.39	3.41	3.43	3.44	3.45	3.45	3.46	3.46
	Dec.	2.88	2.90	2.92	2.94	2.96	2.97	2.98	2.99	3.00	3.01
2024	Jan.	3.07	3.09	3.11	3.12	3.13	3.14	3.15	3.16	3.17	3.18
	Feb.	3.28	3.31	3.32	3.34	3.35	3.36	3.37	3.37	3.37	3.37
	Mar.	3.11	3.14	3.17	3.19	3.22	3.23	3.25	3.26	3.26	3.27
	Apr.	3.31	3.34	3.37	3.39	3.42	3.43	3.44	3.45	3.46	3.46
	May	3.37	3.39	3.42	3.44	3.46	3.48	3.49	3.50	3.51	3.51
	June	3.27	3.29	3.31	3.32	3.34	3.35	3.36	3.37	3.38	3.39
	July	3.13	3.17	3.20	3.23	3.25	3.27	3.29	3.31	3.32	3.33
	Aug.	3.03	3.06	3.09	3.11	3.13	3.15	3.17	3.18	3.20	3.21
	Sep.	2.94	2.98	3.02	3.05	3.08	3.10	3.12	3.14	3.16	3.18
	Oct.	3.00	3.03	3.06	3.08	3.10	3.12	3.13	3.14	3.16	3.17
	Nov.	2.85	2.88	2.90	2.92	2.94	2.96	2.97	2.98	2.99	3.00
	Dec.	3.06	3.08	3.11	3.13	3.15	3.16	3.17	3.19	3.20	3.21
2024	Dec. 3	2.80	2.83	2.86	2.88	2.90	2.92	2.93	2.94	2.96	2.97
	4	2.80	2.83	2.85	2.87	2.89	2.90	2.92	2.93	2.94	2.95
	5	2.80	2.83	2.86	2.88	2.90	2.92	2.93	2.94	2.95	2.97
	6	2.83	2.86	2.88	2.90	2.92	2.93	2.95	2.96	2.97	2.98
	9	2.82	2.85	2.87	2.89	2.91	2.92	2.94	2.95	2.96	2.97
	10	2.84	2.86	2.89	2.91	2.93	2.94	2.96	2.97	2.98	2.99
	11	2.83	2.86	2.88	2.90	2.92	2.94	2.95	2.96	2.97	2.98
	12	2.86	2.89	2.91	2.94	2.96	2.98	2.99	3.01	3.02	3.03
	13	2.90	2.93	2.96	2.98	2.99	3.01	3.02	3.04	3.05	3.06
	16	2.93	2.95	2.98	3.00	3.02	3.03	3.05	3.06	3.07	3.08
	17	2.92	2.94	2.97	2.99	3.01	3.02	3.04	3.05	3.06	3.07
	18	2.92	2.95	2.97	2.99	3.01	3.03	3.04	3.06	3.07	3.08
	19	2.97	2.99	3.02	3.04	3.05	3.07	3.08	3.09	3.10	3.11
	20	2.99	3.01	3.04	3.06	3.07	3.09	3.10	3.11	3.12	3.13
	23	2.99	3.02	3.04	3.06	3.08	3.09	3.11	3.12	3.13	3.14
	27	3.04	3.06	3.08	3.10	3.12	3.13	3.15	3.16	3.17	3.18
	30	3.06	3.08	3.11	3.13	3.15	3.16	3.17	3.19	3.20	3.21
2025	Jan. 2	3.03	3.06	3.08	3.10	3.12	3.14	3.15	3.17	3.18	3.19
	3	3.05	3.08	3.11	3.13	3.15	3.16	3.18	3.19	3.20	3.21
	6	3.09	3.11	3.14	3.16	3.17	3.19	3.20	3.21	3.22	3.23
		Memo item: yields, derived from the term of structure of interest rates, on Pfandbriefe with annual coupon payments									
2024	Dec. 30	3.03	3.05	3.07	3.09	3.11	3.12	3.13	3.15	3.15	3.16
		Parameters for calculating the term structure of interest rates									
		Beta0	Beta1	Beta2	Beta3	Tau1	Tau2				
2024	Dec. 30	3.39279	0.48241	–	1.56632	–	2.31353	0.26734	1.47910		
2025	Jan. 2	3.38295	5.14230	–	6.48654	–	2.59511	0.11493	1.44507		
	3	3.41213	0.27586	–	2.53813	–	1.54757	1.55234	0.30616		
	6	3.41348	0.18134	–	2.36972	–	1.22782	1.49093	0.28774		

\* Interest rates on (theoretical) zero coupon bonds, estimated according to the procedure outlined in the explanatory notes. The estimates are based on the prices of Pfandbriefe (mortgage Pfandbriefe and public Pfandbriefe) with a residual maturity of

at least three months. The interest rates are estimated using a non-linear, parametric approach.