

II. Euro foreign exchange reference rates of the European Central Bank *

1. End-of-month and daily rates

EUR 1 = CU ...

		EU member countries						
		Bulgaria	Czechia	Denmark	Hungary	Poland	Romania	Sweden
Period		Bulgarian lev BGN	Czech koruna CZK	Danish krone DKK	Hungarian forint HUF	Polish zloty PLN	Romanian leu RON	Swedish krona SEK
2023	July	1.9558	23.900	7.4529	386.93	4.4070	4.9349	11.5895
	Aug.	1.9558	24.072	7.4523	380.13	4.4673	4.9420	11.8430
	Sep.	1.9558	24.339	7.4571	389.50	4.6283	4.9735	11.5325
	Oct.	1.9558	24.558	7.4647	382.13	4.4405	4.9659	11.8275
	Nov.	1.9558	24.292	7.4548	380.75	4.3490	4.9718	11.4308
	Dec.	1.9558	24.724	7.4529	382.80	4.3395	4.9756	11.0960
2024	Jan.	1.9558	24.891	7.4550	384.90	4.3330	4.9758	11.2682
	Feb.	1.9558	25.363	7.4540	393.48	4.3208	4.9706	11.2150
	Mar.	1.9558	25.305	7.4580	395.26	4.3123	4.9735	11.5250
	Apr.	1.9558	25.140	7.4583	390.68	4.3178	4.9759	11.7530
	May	1.9558	24.709	7.4588	388.83	4.2645	4.9767	11.4210
	June	1.9558	25.025	7.4575	395.10	4.3090	4.9773	11.3595
	July	1.9558	25.457	7.4621	395.78	4.2908	4.9749	11.6125
2024	July 22	1.9558	25.231	7.4617	389.73	4.2788	4.9720	11.6295
	23	1.9558	25.362	7.4610	390.43	4.2770	4.9729	11.6735
	24	1.9558	25.425	7.4618	393.28	4.2890	4.9706	11.6875
	25	1.9558	25.389	7.4625	393.33	4.2968	4.9697	11.7740
	26	1.9558	25.370	7.4626	390.95	4.2740	4.9718	11.7325
	29	1.9558	25.371	7.4625	392.50	4.2938	4.9725	11.7265
	30	1.9558	25.429	7.4619	394.50	4.2838	4.9766	11.6860
	31	1.9558	25.457	7.4621	395.78	4.2908	4.9749	11.6125
	Aug. 1	1.9558	25.454	7.4613	395.55	4.2958	4.9756	11.5220
	2	1.9558	25.271	7.4621	396.73	4.2890	4.9756	11.5843
	5	1.9558	25.314	7.4607	398.45	4.3128	4.9768	11.5340
	6	1.9558	25.286	7.4628	397.38	4.3105	4.9772	11.5590
	7	1.9558	25.270	7.4627	398.20	4.3173	4.9768	11.4235
	8	1.9558	25.273	7.4619	396.10	4.3190	4.9767	11.4955
	9	1.9558	25.234	7.4622	395.20	4.3253	4.9769	11.4955
	12	1.9558	25.178	7.4628	393.25	4.3058	4.9767	11.4935
	13	1.9558	25.203	7.4621	393.53	4.2890	4.9757	11.5060
	14	1.9558	25.197	7.4620	394.45	4.2975	4.9763	11.4843
	15	1.9558	25.200	7.4619	394.58	4.2815	4.9764	11.5135
	16	1.9558	25.239	7.4616	395.73	4.2703	4.9758	11.5435

		Other European and non-European countries						
		Australia	Brazil	Canada	China	Hong Kong	Iceland	India
Period		Australian dollar AUD	Brazilian real BRL	Canadian dollar CAD	Yuan (renminbi) CNY	Hong Kong dollar HKD	Icelandic krona ISK	Indian rupee INR
2023	July	1.6436	5.2031	1.4566	7.8808	8.5966	144.30	90.6690
	Aug.	1.6785	5.3082	1.4721	7.9196	8.5250	142.30	89.9293
	Sep.	1.6339	5.3065	1.4227	7.7352	8.2959	144.90	88.0165
	Oct.	1.6739	5.3743	1.4712	7.7686	8.3079	147.50	88.4195
	Nov.	1.6542	5.3984	1.4870	7.8008	8.5384	150.70	91.1143
	Dec.	1.6263	5.3618	1.4642	7.8509	8.6314	150.50	91.9045
2024	Jan.	1.6468	5.3749	1.4558	7.7789	8.4734	148.30	90.0010
	Feb.	1.6684	5.4054	1.4719	7.7888	8.4735	149.30	89.7458
	Mar.	1.6607	5.4032	1.4672	7.8144	8.4594	150.30	90.1365
	Apr.	1.6423	5.4928	1.4672	7.7609	8.3817	150.30	89.4155
	May	1.6315	5.6418	1.4804	7.8577	8.4838	149.10	90.5255
	June	1.6079	5.8915	1.4670	7.7748	8.3594	148.90	89.2495
	July	1.6635	6.0874	1.4977	7.8194	8.4589	149.90	90.6250
2024	July 22	1.6370	6.0986	1.4971	7.9191	8.5006	150.10	91.0885
	23	1.6396	6.0594	1.4944	7.9003	8.4788	149.70	90.9075
	24	1.6428	6.0759	1.4953	7.8934	8.4716	149.70	90.8080
	25	1.6638	6.1638	1.5020	7.8331	8.4682	149.50	90.8915
	26	1.6559	6.1170	1.5009	7.8750	8.4782	149.70	90.9495
	29	1.6534	6.1165	1.4976	7.8518	8.4490	149.90	90.5740
	30	1.6560	6.0843	1.4996	7.8489	8.4558	149.50	90.6235
	31	1.6635	6.0874	1.4977	7.8194	8.4589	149.90	90.6250
	Aug. 1	1.6501	6.1120	1.4912	7.8203	8.4320	149.90	90.3485
	2	1.6629	6.2570	1.5035	7.8075	8.4625	150.50	90.7280
	5	1.7008	6.3759	1.5188	7.8046	8.5335	150.50	92.2765
	6	1.6837	6.2028	1.5097	7.8071	8.5055	150.70	91.5925
	7	1.6643	6.1360	1.5010	7.8425	8.5162	150.90	91.6950
	8	1.6677	6.1544	1.5021	7.8393	8.5168	151.10	91.7590
	9	1.6609	6.0477	1.5007	7.8280	8.5140	151.10	91.6550
	12	1.6560	5.9998	1.4998	7.8439	8.5157	151.10	91.7375
	13	1.6572	6.0061	1.5014	7.8301	8.5143	151.10	91.7610
	14	1.6643	6.0024	1.5115	7.8627	8.5824	152.10	92.5025
	15	1.6609	6.0262	1.5090	7.8816	8.5800	152.10	92.4385
	16	1.6577	6.0112	1.5095	7.8758	8.5705	152.90	92.2775

* See Explanatory notes, p. 48.

II. Euro foreign exchange reference rates of the European Central Bank *

1. End-of-month and daily rates (cont'd)

EUR 1 = CU ...

Other European and non-European countries (cont'd)								
Period	Indonesia Indonesian rupiah IDR	Israel New shekel ILS	Japan Japanese yen JPY	Korea, Republic of South Korean won KRW	Malaysia Malaysian ringgit MYR	Mexico Mexican peso MXN	New Zealand New Zealand dollar NZD	Norway Norwegian krone NOK
2023 July	16,622.65	4.0714	156.73	1,405.49	4.9703	18.4088	1.7773	11.1805
Aug.	16,551.96	4.1293	158.49	1,439.56	5.0428	18.1866	1.8259	11.5800
Sep.	16,383.62	4.0472	158.10	1,425.26	4.9741	18.5030	1.7575	11.2535
Oct.	16,868.28	4.2756	160.30	1,434.66	5.0594	19.1551	1.8224	11.8735
Nov.	16,981.14	4.0597	161.19	1,418.78	5.0933	19.0235	1.7762	11.7200
Dec.	17,079.71	3.9993	156.33	1,433.66	5.0775	18.7231	1.7504	11.2405
2024 Jan.	17,076.29	3.9431	160.19	1,444.63	5.1259	18.5817	1.7705	11.3510
Feb.	17,038.18	3.8736	162.53	1,447.43	5.1375	18.4969	1.7807	11.4920
Mar.	17,157.87	3.9799	163.45	1,458.67	5.1168	17.9179	1.8092	11.6990
Apr.	17,422.11	4.0172	168.27	1,479.67	5.1130	18.1895	1.8035	11.8150
May	17,641.72	4.0342	170.52	1,501.11	5.1080	18.4387	1.7696	11.3830
June	17,487.21	4.0200	171.94	1,474.86	5.0501	19.5654	1.7601	11.3965
July	17,634.43	4.0822	162.76	1,485.96	4.9749	20.3317	1.8289	11.8175
2024 July 22	17,648.14	3.9593	170.80	1,511.28	5.0961	19.6457	1.8171	11.9165
23	17,610.63	3.9314	169.64	1,505.59	5.0738	19.5254	1.8209	11.9635
24	17,622.09	3.9403	167.23	1,500.01	5.0687	19.8113	1.8267	11.9420
25	17,704.82	3.9666	165.62	1,497.33	5.0598	20.0980	1.8401	12.0825
26	17,694.04	3.9788	167.84	1,505.15	5.0580	19.9254	1.8427	11.9370
29	17,609.86	4.0321	166.44	1,496.41	5.0180	19.9420	1.8418	11.9155
30	17,681.92	4.0440	167.61	1,498.59	5.0034	20.1533	1.8386	11.8885
31	17,634.43	4.0822	162.76	1,485.96	4.9749	20.3317	1.8289	11.8175
Aug. 1	17,549.06	4.0855	162.66	1,474.13	4.9295	19.9936	1.8140	11.7465
2	17,562.88	4.1211	161.37	1,479.77	4.8730	20.5799	1.8196	11.9290
5	17,754.50	4.2013	155.98	1,495.97	4.8525	21.6414	1.8461	12.1108
6	17,653.43	4.1979	158.29	1,504.09	4.8834	21.0872	1.8423	12.0005
7	17,539.37	4.1367	160.62	1,501.94	4.9111	21.0692	1.8150	11.7810
8	17,378.97	4.1511	159.74	1,503.86	4.8912	21.0402	1.8230	11.8825
9	17,413.43	4.0722	160.33	1,491.07	4.8280	20.5652	1.8156	11.8295
12	17,444.00	4.1171	161.25	1,497.58	4.8682	20.5660	1.8110	11.7745
13	17,318.20	4.0855	161.17	1,498.93	4.8648	20.7235	1.8089	11.7970
14	17,194.60	4.1127	161.98	1,493.74	4.8704	20.8780	1.8324	11.7665
15	17,290.19	4.0770	162.14	1,495.28	4.8834	20.7475	1.8320	11.7455
16	17,259.48	4.0359	162.72	1,490.58	4.8720	20.5459	1.8240	11.8185

Other European and non-European countries (cont'd)								
Period	Philippines Philippine peso PHP	Singapore Singapore dollar SGD	South Africa South African rand ZAR	Switzerland Swiss franc CHF	Thailand Thai baht THB	Turkey Turkish lira TRY	United Kingdom Pound sterling GBP	United States US dollar USD
2023 July	60.522	1.4660	19.5511	0.9619	37.732	29.7126	0.85765	1.1023
Aug.	61.545	1.4686	20.4199	0.9584	38.005	28.9848	0.85718	1.0868
Sep.	59.969	1.4443	19.9813	0.9669	38.679	29.0514	0.86458	1.0594
Oct.	60.295	1.4525	19.9507	0.9607	38.266	30.0455	0.87366	1.0619
Nov.	60.623	1.4602	20.5703	0.9562	38.494	31.5441	0.86368	1.0931
Dec.	61.283	1.4591	20.3477	0.9260	37.973	32.6531	0.86905	1.1050
2024 Jan.	61.023	1.4517	20.3238	0.9348	38.461	32.8984	0.85435	1.0837
Feb.	60.858	1.4570	20.9007	0.9534	38.909	33.8067	0.85655	1.0826
Mar.	60.797	1.4587	20.5226	0.9766	39.412	34.9487	0.85510	1.0811
Apr.	61.830	1.4593	20.0682	0.9787	39.732	34.7045	0.85478	1.0718
May	63.604	1.4663	20.2927	0.9818	39.925	34.9691	0.85365	1.0852
June	62.560	1.4513	19.4970	0.9634	39.319	35.1868	0.84638	1.0705
July	63.218	1.4491	19.7400	0.9533	38.629	35.9085	0.84380	1.0828
2024 July 22	63.575	1.4648	19.8948	0.9671	39.540	35.9064	0.84215	1.0888
23	63.498	1.4615	20.0068	0.9681	39.324	35.7592	0.84073	1.0860
24	63.558	1.4577	19.8662	0.9609	39.197	35.6509	0.83973	1.0848
25	63.576	1.4566	20.0649	0.9534	39.264	35.9078	0.84280	1.0851
26	63.377	1.4594	19.8121	0.9594	39.112	35.7984	0.84378	1.0860
29	63.343	1.4540	19.9041	0.9578	38.914	35.7096	0.84345	1.0817
30	63.502	1.4554	19.8815	0.9592	38.961	35.8199	0.84260	1.0824
31	63.218	1.4491	19.7400	0.9533	38.629	35.9085	0.84380	1.0828
Aug. 1	62.912	1.4437	19.6134	0.9467	38.409	35.7061	0.84328	1.0789
2	62.885	1.4424	19.7048	0.9433	38.296	35.9419	0.85000	1.0835
5	63.303	1.4475	20.3713	0.9304	38.732	36.5848	0.85878	1.0966
6	63.049	1.4485	20.1616	0.9325	38.797	36.6472	0.85998	1.0915
7	63.015	1.4499	20.0340	0.9409	38.866	36.5786	0.85808	1.0922
8	62.738	1.4474	20.0993	0.9368	38.577	36.6133	0.86093	1.0930
9	62.533	1.4453	20.0169	0.9435	38.450	36.6275	0.85708	1.0917
12	62.611	1.4474	19.9047	0.9491	38.527	36.6293	0.85554	1.0925
13	62.322	1.4454	19.8621	0.9480	38.384	36.6789	0.85458	1.0931
14	62.761	1.4494	19.9267	0.9515	38.429	36.9665	0.85783	1.1019
15	62.744	1.4505	19.8284	0.9541	38.483	37.0147	0.85615	1.1011
16	62.843	1.4497	19.6993	0.9540	38.408	37.0448	0.85128	1.0994

* See Explanatory notes, p. 48.