

Exchange rate statistics

October 2023

Statistical Series

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Abbreviations and symbols

CU	Currency unit(s)
EC	European Community
ECB	European Central Bank
ECU	European Currency Unit
EER	Effective exchange rate
ERM	Exchange Rate Mechanism
EU	European Union
IMF	International Monetary Fund
ISO	International Organization for Standardization
SDR	Special drawing right
SITC	Standard International Trade Classification
SWIFT	Society for Worldwide Interbank Financial Telecommunication
B	Buying rate
M	Middle rate
S	Selling rate
V	Calculated value
e	Estimated
p	Provisional
r	Revised
.	Data unknown, not to be published or not meaningful
–	Nil

Discrepancies in the totals are due to rounding.

I. Euro area and exchange rate stability convergence criterion

1. Euro area countries and irrevocable euro conversion rates in the third stage of Economic and Monetary Union

From	Country	Currency	ISO currency code	EUR 1 = CU ...	Council Regulation (EU) No 1	
1999 January 1	Austria	Austrian schilling	ATS	13.7603	2866/98	
	Belgium	Belgian franc	BEF	40.3399	2866/98	
	Finland	Finnish markka	FIM	5.94573	2866/98	
	France	French franc	FRF	6.55957	2866/98	
	Germany	Deutsche Mark	DEM	1.95583	2866/98	
	Ireland	Irish pound	IEP	0.787564	2866/98	
	Italy	Italian lira	ITL	1,936.27	2866/98	
	Luxembourg	Luxembourg franc	LUF	40.3399	2866/98	
	Netherlands	Dutch guilder	NLG	2.20371	2866/98	
	Portugal	Portuguese escudo	PTE	200.482	2866/98	
	Spain	Spanish peseta	ESP	166.386	2866/98	
	2001 January 1	Greece	Greek drachma	GRD	340.750	1478/2000
	2007 January 1	Slovenia	Slovenian tolar	SIT	239.640	1086/2006
	2008 January 1	Cyprus	Cyprus pound	CYP	0.585274	1135/2007
Malta		Maltese lira	MTL	0.429300	1134/2007	
2009 January 1	Slovakia	Slovak koruna	SKK	30.1260	694/2008	
2011 January 1	Estonia	Estonian kroon	EEK	15.6466	671/2010	
2014 January 1	Latvia	Latvian lats	LVL	0.702804	870/2013	
2015 January 1	Lithuania	Lithuanian litas	LTL	3.45280	851/2014	
2023 January 1	Croatia	Croatian kuna	HRK	7.53450	1208/2022	

1 The EU regulations can be found at <http://eur-lex.europa.eu>

2. Central rates and intervention rates in Exchange Rate Mechanism II *

Country Currency ISO currency code	Type of rate	EUR 1 = CU ...							
		From ...							
		1 Jan. 1999	17 Jan. 2000	28 June 2004	2 May 2005	28 Nov. 2005	19 Mar. 2007	29 May 2008	13 July 2020
Denmark	Upper rate	7.62824	7.62824	7.62824	7.62824	7.62824	7.62824	7.62824	7.62824
Danish krone	Central rate	¹ 7.46038	7.46038	7.46038	7.46038	7.46038	7.46038	7.46038	7.46038
DKK	Lower rate	7.29252	7.29252	7.29252	7.29252	7.29252	7.29252	7.29252	7.29252
Bulgaria	Upper rate	–	–	–	–	–	–	–	2.24920
Bulgarian lev	Central rate	–	–	–	–	–	–	–	² 1.95583
BGN	Lower rate	–	–	–	–	–	–	–	1.66246
Greece	Upper rate	406.075	³ 391.863	–	–	–	–	–	–
Greek drachma	Central rate	¹ 353.109	³ 340.750	–	–	–	–	–	–
GRD	Lower rate	300.143	289.638	–	–	–	–	–	–
Estonia	Upper rate	–	–	17.9936	17.9936	17.9936	17.9936	17.9936	–
Estonian kroon	Central rate	–	–	15.6466	15.6466	15.6466	15.6466	⁴ 15.6466	–
EEK	Lower rate	–	–	13.2996	13.2996	13.2996	13.2996	13.2996	–
Lithuania	Upper rate	–	–	3.97072	3.97072	3.97072	3.97072	3.97072	–
Lithuanian litas	Central rate	–	–	3.45280	3.45280	3.45280	3.45280	⁵ 3.45280	–
LTL	Lower rate	–	–	2.93488	2.93488	2.93488	2.93488	2.93488	–
Slovenia	Upper rate	–	–	275.586	275.586	275.586	–	–	–
Slovenian tolar	Central rate	–	–	239.640	239.640	⁶ 239.640	–	–	–
SIT	Lower rate	–	–	203.694	203.694	203.694	–	–	–
Cyprus	Upper rate	–	–	–	0.673065	0.673065	0.673065	–	–
Cyprus pound	Central rate	–	–	–	0.585274	0.585274	⁷ 0.585274	–	–
CYP	Lower rate	–	–	–	0.497483	0.497483	0.497483	–	–
Latvia	Upper rate	–	–	–	0.808225	0.808225	0.808225	0.808225	–
Latvian lats	Central rate	–	–	–	0.702804	0.702804	0.702804	⁸ 0.702804	–
LVL	Lower rate	–	–	–	0.597383	0.597383	0.597383	0.597383	–
Malta	Upper rate	–	–	–	0.493695	0.493695	0.493695	–	–
Maltese lira	Central rate	–	–	–	0.429300	0.429300	⁷ 0.429300	–	–
MTL	Lower rate	–	–	–	0.364905	0.364905	0.364905	–	–
Slovakia	Upper rate	–	–	–	–	44.2233	40.7588	34.6449	–
Slovak koruna	Central rate	–	–	–	–	38.4550	35.4424	⁹ 30.1260	–
SKK	Lower rate	–	–	–	–	32.6868	30.1260	25.6071	–
Croatia	Upper rate	–	–	–	–	–	–	–	8.66468
Croatian kuna	Central rate	–	–	–	–	–	–	–	¹⁰ 7.53450
HRK	Lower rate	–	–	–	–	–	–	–	6.40433

Source: ECB. * One prerequisite before an EU Member State can join the euro area is that its currency must have observed the normal fluctuation margins of Exchange Rate Mechanism II (the standard fluctuation band is $\pm 15\%$) for at least two years without devaluing against the euro. The Danish krone has a fluctuation band of $\pm 2.25\%$ on either side of the central rate. ¹ According to the EU communiqué of 31 December 1998. ² According to the EU communiqué of 10 July 2020. ³ Until 31 December 2000; accession to the euro area on 1 January 2001. ⁴ Until 31 December 2010; accession to

the euro area on 1 January 2011. ⁵ Until 31 December 2014; accession to the euro area on 1 January 2015. ⁶ Until 31 December 2006; accession to the euro area on 1 January 2007. ⁷ Until 31 December 2007; accession to the euro area on 1 January 2008. ⁸ Until 31 December 2013; accession to the euro area on 1 January 2014. ⁹ Until 31 December 2008; accession to the euro area on 1 January 2009. ¹⁰ Until 31 December 2022; accession to the euro area on 1 January 2023.

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

1. End-of-month and daily rates

EUR 1 = CU ...

Period		EU member countries							
		Bulgaria	Croatia ¹	Czechia	Denmark	Hungary	Poland	Romania	Sweden
		Bulgarian lev BGN	Kuna HRK	Czech koruna CZK	Danish krone DKK	Hungarian forint HUF	Polish zloty PLN	Romanian leu RON	Swedish krona SEK
2022 Sep.	1.9558	7.5240	24.549	7.4365	422.18	4.8483	4.9490	10.8993	
Oct.	1.9558	7.5310	24.488	7.4444	409.65	4.7085	4.9143	10.9010	
Nov.	1.9558	7.5490	24.338	7.4366	408.40	4.6635	4.9245	10.9345	
Dec.	1.9558	7.5365	24.116	7.4365	400.87	4.6808	4.9495	11.1218	
2023 Jan.	1.9558	–	23.792	7.4388	390.91	4.7090	4.9210	11.3480	
Feb.	1.9558	–	23.497	7.4443	377.68	4.7125	4.9200	11.0780	
Mar.	1.9558	–	23.492	7.4485	379.50	4.6700	4.9490	11.2805	
Apr.	1.9558	–	23.502	7.4538	373.78	4.5815	4.9301	11.3515	
May	1.9558	–	23.741	7.4480	370.85	4.5368	4.9695	11.6278	
June	1.9558	–	23.742	7.4474	371.93	4.4388	4.9635	11.8055	
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	
2023 Sep. 18	1.9558	–	24.406	7.4551	384.13	4.6383	4.9690	11.9872	
19	1.9558	–	24.432	7.4551	383.25	4.6548	4.9698	11.8845	
20	1.9558	–	24.388	7.4528	383.70	4.6403	4.9716	11.8803	
21	1.9558	–	24.437	7.4547	387.78	4.6270	4.9708	11.9260	
22	1.9558	–	24.360	7.4557	386.70	4.5925	4.9686	11.8790	
25	1.9558	–	24.377	7.4571	391.08	4.5893	4.9680	11.7280	
26	1.9558	–	24.411	7.4575	388.88	4.6093	4.9700	11.6540	
27	1.9558	–	24.470	7.4566	390.85	4.6250	4.9745	11.6255	
28	1.9558	–	24.378	7.4558	392.35	4.6343	4.9754	11.6065	
29	1.9558	–	24.339	7.4571	389.50	4.6283	4.9735	11.5325	
Oct. 2	1.9558	–	24.460	7.4585	388.60	4.6123	4.9748	11.5833	
3	1.9558	–	24.494	7.4584	386.73	4.6230	4.9753	11.6375	
4	1.9558	–	24.428	7.4589	387.32	4.6278	4.9753	11.5855	
5	1.9558	–	24.416	7.4578	387.08	4.5988	4.9703	11.5975	
6	1.9558	–	24.423	7.4575	386.81	4.5983	4.9645	11.6045	
9	1.9558	–	24.477	7.4571	388.55	4.5798	4.9665	11.6085	
10	1.9558	–	24.566	7.4564	387.38	4.5565	4.9654	11.6005	
11	1.9558	–	24.563	7.4567	386.55	4.5158	4.9661	11.5655	
12	1.9558	–	24.550	7.4562	385.90	4.5291	4.9632	11.5435	
13	1.9558	–	24.670	7.4582	387.73	4.5350	4.9648	11.5500	

Period		Other European and non-European countries							
		Australia	Brazil	Canada	China	Hong Kong	Iceland	India	Indonesia
		Australian dollar AUD	Brazilian real BRL	Canadian dollar CAD	Yuan (renminbi) CNY	Hong Kong dollar HKD	Icelandic krona ISK	Indian rupee INR	Indonesian rupiah IDR
2022 Sep.	1.5076	5.2584	1.3401	6.9368	7.6521	140.90	79.4250	14,863.26	
Oct.	1.5529	5.2694	1.3553	7.2380	7.7822	143.30	82.1035	15,489.55	
Nov.	1.5425	5.5063	1.4021	7.3437	8.0944	147.10	84.4215	16,271.81	
Dec.	1.5693	5.6386	1.4440	7.3582	8.3163	151.50	88.1710	16,519.82	
2023 Jan.	1.5476	5.5373	1.4570	7.3198	8.4898	153.10	88.6360	16,282.57	
Feb.	1.5760	5.5280	1.4411	7.3663	8.3351	152.30	87.7205	16,193.42	
Mar.	1.6268	5.5158	1.4737	7.4763	8.5367	148.30	89.3995	16,300.19	
Apr.	1.6664	5.4872	1.4981	7.5979	8.6199	149.10	89.8555	16,111.90	
May	1.6497	5.4288	1.4582	7.5926	8.3696	149.70	88.3400	16,030.39	
June	1.6398	5.2788	1.4415	7.8983	8.5157	148.70	89.2065	16,384.54	
July	1.6436	5.2031	1.4566	7.8808	8.5966	144.30	90.6690	16,622.65	
Aug.	1.6785	5.3082	1.4721	7.9196	8.5250	142.30	89.9293	16,551.96	
Sep.	1.6339	5.3065	1.4227	7.7352	8.2959	144.90	88.0165	16,383.62	
2023 Sep. 18	1.6575	5.1905	1.4400	7.7796	8.3386	145.10	88.8295	16,389.03	
19	1.6566	5.1914	1.4373	7.8111	8.3756	144.90	89.1438	16,476.59	
20	1.6498	5.1982	1.4366	7.8059	8.3719	145.30	88.9123	16,435.63	
21	1.6617	5.2092	1.4368	7.7695	8.3181	145.50	88.3718	16,351.31	
22	1.6496	5.2295	1.4303	7.7766	8.3262	145.30	88.2975	16,369.76	
25	1.6544	5.2516	1.4311	7.7728	8.3126	145.50	88.3770	16,355.10	
26	1.6539	5.2721	1.4318	7.7517	8.2942	145.10	88.2995	16,427.15	
27	1.6541	5.2716	1.4255	7.7031	8.2397	144.90	87.6505	16,385.43	
28	1.6483	5.3115	1.4206	7.6986	8.2491	144.90	87.6395	16,382.56	
29	1.6339	5.3065	1.4227	7.7352	8.2959	144.90	88.0165	16,383.62	
Oct. 2	1.6472	5.3250	1.4335	7.6885	8.2476	146.50	87.5750	16,372.57	
3	1.6612	5.3370	1.4365	7.6439	8.1992	145.90	87.1175	16,336.51	
4	1.6615	5.3955	1.4391	7.6644	8.2191	145.70	87.3975	16,406.81	
5	1.6580	5.4372	1.4479	7.6856	8.2412	145.30	87.6270	16,426.14	
6	1.6612	5.4634	1.4492	7.7162	8.2728	144.90	87.8340	16,522.27	
9	1.6546	5.4385	1.4380	7.6784	8.2458	145.10	87.7205	16,523.14	
10	1.6538	5.4212	1.4387	7.7238	8.2744	146.30	88.0845	16,644.75	
11	1.6529	5.3461	1.4429	7.7433	8.2917	146.90	88.1980	16,672.19	
12	1.6584	5.3604	1.4435	7.7514	8.3056	146.50	88.3925	16,633.34	
13	1.6662	5.3352	1.4397	7.6902	8.2353	146.50	87.6340	16,504.79	

* See Explanatory notes, p. 48. **1** Accession to the euro area on 1 January 2023.

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	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	Philippines Philippine peso PHP
2022 Sep.	3.4759	141.01	1,400.69	4.5201	19.6393	1.7177	10.5838	57.276
Oct.	3.4933	147.40	1,416.12	4.6873	19.7122	1.7099	10.3028	57.800
Nov.	3.5691	144.28	1,365.14	4.6147	20.0111	1.6634	10.2648	58.697
Dec.	3.7554	140.66	1,344.09	4.6984	20.8560	1.6798	10.5138	59.320
2023 Jan.	3.7675	141.27	1,338.90	4.6211	20.3961	1.6858	10.9083	59.192
Feb.	3.8821	145.23	1,401.84	4.7653	19.4480	1.7216	10.9713	58.760
Mar.	3.9284	144.83	1,420.26	4.7986	19.6392	1.7392	11.3940	59.050
Apr.	3.9939	149.35	1,470.89	4.8981	19.8182	1.7864	11.7910	60.923
May	3.9713	149.13	1,416.29	4.9307	18.9263	1.7793	12.0045	60.053
June	4.0486	157.16	1,435.88	5.0717	18.5614	1.7858	11.7040	60.082
July	4.0714	156.73	1,405.49	4.9703	18.4088	1.7773	11.1805	60.522
Aug.	4.1293	158.49	1,439.56	5.0428	18.1866	1.8259	11.5800	61.545
Sep.	4.0472	158.10	1,425.26	4.9741	18.5030	1.7575	11.2535	59.969
2023 Sep. 18	4.0810	157.44	1,413.49	4.9999	18.2252	1.8067	11.5688	60.534
19	4.0725	158.20	1,418.98	5.0308	18.3010	1.8022	11.4905	60.684
20	4.0754	158.28	1,420.39	5.0144	18.2287	1.7946	11.4820	60.703
21	4.0515	157.34	1,426.05	4.9894	18.2401	1.8004	11.5270	60.536
22	4.0534	157.87	1,419.23	4.9908	18.2660	1.7833	11.4270	60.430
25	4.0438	158.08	1,422.96	4.9816	18.3274	1.7823	11.4300	60.345
26	4.0511	157.87	1,430.12	4.9737	18.4816	1.7782	11.4400	60.456
27	4.0516	157.20	1,425.19	4.9603	18.5624	1.7779	11.3610	60.045
28	4.0560	157.33	1,426.71	4.9618	18.5940	1.7698	11.3160	59.988
29	4.0472	158.10	1,425.26	4.9741	18.5030	1.7575	11.2535	59.969
Oct. 2	4.0358	157.67	1,427.62	4.9670	18.4533	1.7641	11.3225	59.797
3	4.0289	157.01	1,425.31	4.9450	18.6025	1.7750	11.4258	59.453
4	4.0542	156.48	1,422.11	4.9661	18.8501	1.7792	11.5135	59.507
5	4.0667	156.71	1,420.44	4.9762	19.0209	1.7715	11.5703	59.661
6	4.0731	157.47	1,423.03	4.9789	19.3032	1.7711	11.6090	59.813
9	4.1356	157.06	1,424.41	4.9833	19.2417	1.7612	11.4828	59.911
10	4.1789	157.71	1,427.60	5.0053	19.2526	1.7612	11.4965	60.148
11	4.1937	157.87	1,421.27	5.0035	18.9499	1.7614	11.4953	60.204
12	4.2032	158.35	1,420.07	5.0042	18.8748	1.7704	11.5165	60.157
13	4.1841	157.44	1,423.08	4.9763	18.8786	1.7821	11.5160	59.766

Other European and non-European countries (cont'd)								
Period	Russian Federation Russian rouble RUB 1	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
2022 Sep.	–	1.4001	17.5353	0.9561	36.823	18.0841	0.88300	0.9748
Oct.	–	1.4038	18.1736	0.9925	37.748	18.4562	0.86115	0.9914
Nov.	–	1.4180	17.5768	0.9854	36.588	19.3333	0.86488	1.0376
Dec.	–	1.4300	18.0986	0.9847	36.835	19.9649	0.88693	1.0666
2023 Jan.	–	1.4268	18.9223	1.0032	35.787	20.3787	0.88073	1.0833
Feb.	–	1.4314	19.5518	0.9947	37.485	20.0556	0.87701	1.0619
Mar.	–	1.4464	19.3275	0.9968	37.111	20.8632	0.87920	1.0875
Apr.	–	1.4679	20.1558	0.9839	37.467	21.3608	0.88050	1.0981
May	–	1.4467	21.1353	0.9724	37.134	22.1320	0.86405	1.0683
June	–	1.4732	20.5785	0.9788	38.482	28.3193	0.85828	1.0866
July	–	1.4660	19.5511	0.9619	37.732	29.7126	0.85765	1.1023
Aug.	–	1.4686	20.4199	0.9584	38.005	28.9848	0.85718	1.0868
Sep.	–	1.4443	19.9813	0.9669	38.679	29.0514	0.86458	1.0594
2023 Sep. 18	–	1.4551	20.2948	0.9564	38.072	28.8108	0.86141	1.0663
19	–	1.4596	20.2829	0.9595	38.492	28.9603	0.86263	1.0713
20	–	1.4581	20.1592	0.9601	38.591	28.9339	0.86530	1.0702
21	–	1.4559	20.1522	0.9628	38.488	28.8448	0.86713	1.0635
22	–	1.4529	19.9970	0.9650	38.287	28.9233	0.86795	1.0647
25	–	1.4524	19.9410	0.9676	38.396	28.9312	0.86965	1.0633
26	–	1.4500	20.1387	0.9675	38.549	28.9190	0.87020	1.0605
27	–	1.4449	20.2216	0.9680	38.541	28.7668	0.86810	1.0536
28	–	1.4431	20.1700	0.9678	38.657	28.8951	0.86333	1.0539
29	–	1.4443	19.9813	0.9669	38.679	29.0514	0.86458	1.0594
Oct. 2	–	1.4449	20.1510	0.9634	38.898	28.9172	0.86628	1.0530
3	–	1.4393	20.2403	0.9660	38.798	28.7892	0.86775	1.0469
4	–	1.4402	20.2420	0.9634	38.839	28.9397	0.86588	1.0497
5	–	1.4421	20.5884	0.9625	38.883	29.0064	0.86605	1.0526
6	–	1.4436	20.4935	0.9629	39.073	29.1721	0.86510	1.0563
9	–	1.4419	20.4098	0.9581	39.081	29.1730	0.86520	1.0531
10	–	1.4460	20.2777	0.9589	38.857	29.3393	0.86390	1.0582
11	–	1.4451	20.0359	0.9576	38.614	29.4090	0.86265	1.0604
12	–	1.4470	20.0085	0.9566	38.388	29.4656	0.86260	1.0619
13	–	1.4405	19.9616	0.9546	38.255	29.2576	0.86415	1.0524

* See Explanatory notes, p. 48. 1 The ECB has suspended the publication of the euro foreign exchange reference rate against the Russian rouble with effect from 2 March 2022.

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

2. Annual and monthly averages +

EUR 1 = CU ...

EU member countries		Bulgaria		Croatia ¹		Czechia		Denmark		Hungary		Poland		Romania		Sweden	
Period	Bulgarian lev BGN	Kuna HRK	Czech koruna CZK	Danish krone DKK	Hungarian forint HUF	Polish zloty PLN	Romanian leu RON	Swedish krona SEK									
2021	1.9558	7.5284	25.640	7.4370	358.52	4.5652	4.9215	10.1465									
2022	1.9558	7.5349	24.566	7.4396	391.29	4.6861	4.9313	10.6296									
2021 Aug.	1.9558	7.4960	25.470	7.4369	351.84	4.5687	4.9232	10.2157									
Sep.	1.9558	7.4924	25.392	7.4361	352.51	4.5681	4.9471	10.1710									
Oct.	1.9558	7.5135	25.496	7.4398	360.82	4.5909	4.9480	10.0557									
Nov.	1.9558	7.5195	25.391	7.4373	364.50	4.6462	4.9494	10.0459									
Dec.	1.9558	7.5201	25.246	7.4362	367.50	4.6137	4.9492	10.2726									
2022 Jan.	1.9558	7.5247	24.470	7.4411	358.68	4.5522	4.9454	10.3579									
Feb.	1.9558	7.5338	24.437	7.4408	356.97	4.5487	4.9458	10.5342									
Mar.	1.9558	7.5711	25.007	7.4404	376.64	4.7522	4.9482	10.5463									
Apr.	1.9558	7.5577	24.435	7.4391	374.87	4.6485	4.9442	10.3175									
May	1.9558	7.5356	24.750	7.4405	384.45	4.6485	4.9460	10.4956									
June	1.9558	7.5252	24.719	7.4392	396.66	4.6471	4.9444	10.6005									
July	1.9558	7.5185	24.594	7.4426	404.10	4.7682	4.9396	10.5752									
Aug.	1.9558	7.5138	24.568	7.4393	402.10	4.7233	4.8943	10.5021									
Sep.	1.9558	7.5222	24.576	7.4366	404.19	4.7414	4.9097	10.7840									
Oct.	1.9558	7.5298	24.528	7.4389	418.31	4.8040	4.9259	10.9503									
Nov.	1.9558	7.5426	24.369	7.4387	406.68	4.6964	4.9142	10.8798									
Dec.	1.9558	7.5448	24.269	7.4377	407.68	4.6832	4.9224	10.9859									
2023 Jan.	1.9558	–	23.958	7.4383	396.03	4.6974	4.9242	11.2051									
Feb.	1.9558	–	23.712	7.4447	384.91	4.7415	4.9087	11.1725									
Mar.	1.9558	–	23.683	7.4456	385.01	4.6893	4.9263	11.2276									
Apr.	1.9558	–	23.437	7.4518	375.34	4.6320	4.9365	11.3370									
May	1.9558	–	23.595	7.4485	372.37	4.5345	4.9477	11.3697									
June	1.9558	–	23.695	7.4492	370.60	4.4608	4.9600	11.6766									
July	1.9558	–	23.892	7.4508	379.04	4.4431	4.9411	11.6343									
Aug.	1.9558	–	24.108	7.4522	385.05	4.4601	4.9411	11.8117									
Sep.	1.9558	–	24.380	7.4566	386.43	4.5981	4.9656	11.8417									

Other European and non-European countries		Australia		Brazil		Canada		China		Hong Kong		Iceland		India		Indonesia	
Period	Australian dollar AUD	Brazilian real BRL	Canadian dollar CAD	Yuan (renminbi) CNY	Hong Kong dollar HKD	Icelandic krona ISK	Indian rupee INR	Indonesian rupiah IDR									
2021	1.5749	6.3779	1.4826	7.6282	9.1932	150.15	87.4392	16,920.72									
2022	1.5167	5.4399	1.3695	7.0788	8.2451	142.24	82.6864	15,625.25									
2021 Aug.	1.6118	6.1884	1.4827	7.6237	9.1633	148.45	87.2573	16,926.94									
Sep.	1.6087	6.1966	1.4910	7.6007	9.1583	150.96	86.6330	16,781.39									
Oct.	1.5669	6.4204	1.4436	7.4500	9.0257	149.66	86.9571	16,450.02									
Nov.	1.5615	6.3434	1.4339	7.2927	8.8922	149.16	85.0038	16,298.12									
Dec.	1.5781	6.3841	1.4463	7.1993	8.8155	147.15	85.1762	16,184.17									
2022 Jan.	1.5770	6.2673	1.4282	7.1922	8.8166	146.09	84.2273	16,227.12									
Feb.	1.5825	5.8903	1.4422	7.1957	8.8461	141.99	85.0312	16,271.78									
Mar.	1.4946	5.4884	1.3950	6.9916	8.6199	143.39	83.9933	15,802.12									
Apr.	1.4663	5.1342	1.3652	6.9605	8.4828	139.83	82.4033	15,566.64									
May	1.4995	5.2460	1.3588	7.0830	8.3030	138.46	81.7828	15,422.62									
June	1.5044	5.3209	1.3537	7.0734	8.2922	138.47	82.5112	15,531.74									
July	1.4856	5.4718	1.3180	6.8538	7.9895	139.05	81.0182	15,258.22									
Aug.	1.4550	5.2111	1.3078	6.8884	7.9473	140.12	80.5563	15,024.16									
Sep.	1.4820	5.1791	1.3187	6.9508	7.7738	140.35	79.4558	14,847.40									
Oct.	1.5474	5.1658	1.3477	7.0687	7.7128	141.50	80.9180	15,172.93									
Nov.	1.5455	5.3846	1.3708	7.3171	7.9873	146.98	83.3384	15,975.07									
Dec.	1.5685	5.5589	1.4379	7.3859	8.2434	150.76	87.3381	16,503.30									
2023 Jan.	1.5523	5.6047	1.4474	7.3173	8.4217	154.06	88.1441	16,427.04									
Feb.	1.5514	5.5386	1.4400	7.3244	8.4077	153.11	88.5004	16,232.58									
Mar.	1.6034	5.5784	1.4649	7.3807	8.4026	149.89	88.1159	16,364.98									
Apr.	1.6389	5.4995	1.4792	7.5561	8.6093	149.62	89.9311	16,313.20									
May	1.6346	5.4092	1.4687	7.5948	8.5167	150.47	89.4602	16,116.84									
June	1.6157	5.2695	1.4414	7.7653	8.4899	149.35	89.1134	16,194.88									
July	1.6423	5.3099	1.4618	7.9482	8.6437	146.79	90.8395	16,639.99									
Aug.	1.6818	5.3427	1.4703	7.9096	8.5370	143.87	90.3518	16,639.40									
Sep.	1.6622	5.2770	1.4458	7.7967	8.3640	144.46	88.7372	16,424.67									

* See Explanatory notes, p. 48. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB. ¹ Accession to the euro area on 1 January 2023.

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

2. Annual and monthly averages + (cont'd)

EUR 1 = CU ...

Other European and non-European countries (cont'd)								
	Israel	Japan	Korea, Republic of	Malaysia	Mexico	New Zealand	Norway	Philippines
Period	New shekel ILS	Japanese yen JPY	South Korean won KRW	Malaysian ringgit MYR	Mexican peso MXN	New Zealand dollar NZD	Norwegian krone NOK	Philippine peso PHP
2021	3.8208	129.88	1,354.06	4.9015	23.9852	1.6724	10.1633	58.299
2022	3.5345	138.03	1,358.07	4.6279	21.1869	1.6582	10.1026	57.314
2021 Aug.	3.7942	129.28	1,366.74	4.9660	23.6237	1.6872	10.4195	59.088
Sep.	3.7744	129.66	1,380.51	4.9054	23.5675	1.6676	10.1861	59.115
Oct.	3.7292	131.21	1,371.23	4.8307	23.7308	1.6452	9.8143	58.835
Nov.	3.5588	130.12	1,351.74	4.7695	23.8113	1.6261	9.9661	57.473
Dec.	3.5426	128.80	1,338.49	4.7599	23.6159	1.6649	10.1308	56.917
2022 Jan.	3.5487	130.01	1,353.61	4.7405	23.1891	1.6789	10.0070	58.000
Feb.	3.6452	130.66	1,358.53	4.7492	23.1808	1.6982	10.0544	58.163
Mar.	3.5710	130.71	1,345.66	4.6277	22.6476	1.6049	9.7367	57.415
Apr.	3.5106	136.61	1,337.58	4.6208	21.7206	1.5978	9.6191	56.264
May	3.5758	136.24	1,340.10	4.6344	21.1861	1.6515	10.1453	55.421
June	3.6038	141.57	1,351.47	4.6496	21.1240	1.6640	10.2972	56.756
July	3.5309	139.17	1,332.00	4.5197	20.8955	1.6436	10.1823	56.917
Aug.	3.3408	136.85	1,337.90	4.5233	20.3909	1.6158	9.8309	56.542
Sep.	3.4181	141.57	1,381.71	4.5005	19.8718	1.6691	10.1697	57.074
Oct.	3.4823	144.73	1,403.51	4.6127	19.6481	1.7299	10.3919	57.738
Nov.	3.5488	145.12	1,384.19	4.7002	19.8393	1.6828	10.3357	58.655
Dec.	3.6562	142.82	1,370.59	4.6721	20.7608	1.6660	10.4480	58.888
2023 Jan.	3.7126	140.54	1,341.38	4.6589	20.4573	1.6851	10.7149	59.162
Feb.	3.7975	142.38	1,368.77	4.6794	19.9543	1.7016	10.9529	58.743
Mar.	3.8742	143.01	1,398.25	4.7816	19.7242	1.7242	11.2858	58.581
Apr.	3.9877	146.51	1,452.07	4.8561	19.8195	1.7673	11.5187	60.807
May	3.9863	148.93	1,442.31	4.9119	19.2755	1.7481	11.7330	60.604
June	3.9502	153.15	1,406.43	5.0208	18.6993	1.7686	11.7164	60.475
July	4.0546	155.94	1,419.16	5.0754	18.7085	1.7758	11.3474	60.690
Aug.	4.0861	157.96	1,443.24	5.0294	18.5202	1.8195	11.4127	61.461
Sep.	4.0793	157.80	1,424.53	5.0024	18.4757	1.8012	11.4525	60.665

Other European and non-European countries (cont'd)								
	Russian Federation	Singapore	South Africa	Switzerland	Thailand	Turkey	United Kingdom	United States
	Russian rouble RUB 1	Singapore dollar SGD	South African rand ZAR	Swiss franc CHF	Thai baht THB	Turkish lira TRY	Pound sterling GBP	US dollar USD
2021	87.1527	1.5891	17.4766	1.0811	37.837	10.5124	0.85960	1.1827
2022	–	1.4512	17.2086	1.0047	36.856	17.4088	0.85276	1.0530
2021 Aug.	86.6067	1.5947	17.3827	1.0762	38.956	9.9788	0.85287	1.1772
Sep.	85.7740	1.5864	17.1373	1.0857	38.919	10.0691	0.85683	1.1770
Oct.	82.7727	1.5673	17.2300	1.0708	38.813	10.6809	0.84694	1.1601
Nov.	83.1111	1.5487	17.7055	1.0522	37.773	12.2361	0.84786	1.1414
Dec.	83.4913	1.5403	17.9331	1.0408	37.931	15.4045	0.84875	1.1304
2022 Jan.	86.5552	1.5286	17.5286	1.0401	37.607	15.3525	0.83503	1.1314
Feb.	88.8910	1.5274	17.2663	1.0461	37.014	15.4901	0.83787	1.1342
Mar.	–	1.4972	16.5138	1.0245	36.648	16.1233	0.83638	1.1019
Apr.	–	1.4775	16.2796	1.0211	36.559	15.9311	0.83655	1.0819
May	–	1.4621	16.8131	1.0355	36.392	16.5412	0.84969	1.0579
June	–	1.4624	16.6961	1.0245	36.928	17.9599	0.85759	1.0566
July	–	1.4211	17.1606	0.9876	37.028	17.7896	0.84955	1.0179
Aug.	–	1.4016	16.9182	0.9690	36.306	18.2701	0.84499	1.0128
Sep.	–	1.3999	17.3828	0.9640	36.670	18.1465	0.87463	0.9904
Oct.	–	1.4003	17.8214	0.9791	37.286	18.2655	0.87058	0.9826
Nov.	–	1.4144	17.8328	0.9842	37.087	18.9877	0.86892	1.0201
Dec.	–	1.4313	18.3036	0.9865	36.817	19.7613	0.86950	1.0589
2023 Jan.	–	1.4283	18.4320	0.9961	35.840	20.2312	0.88212	1.0769
Feb.	–	1.4262	19.1765	0.9905	36.486	20.1981	0.88550	1.0715
Mar.	–	1.4354	19.5602	0.9908	36.912	20.3491	0.88192	1.0706
Apr.	–	1.4609	19.9205	0.9846	37.549	21.2267	0.88115	1.0968
May	–	1.4555	20.6864	0.9751	37.166	21.4918	0.87041	1.0868
June	–	1.4596	20.3033	0.9764	37.852	25.7697	0.85861	1.0840
July	–	1.4753	20.1074	0.9663	38.243	29.3212	0.85856	1.1058
Aug.	–	1.4735	20.4723	0.9588	38.195	29.3788	0.85892	1.0909
Sep.	–	1.4562	20.2780	0.9600	38.301	28.8643	0.86158	1.0684

* See Explanatory notes, p. 48. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB. 1 The ECB has suspended

the publication of the euro foreign exchange reference rate against the Russian rouble with effect from 2 March 2022.

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

3. End-of-year rates and annual averages

EUR 1 = CU ...

EU member countries									
	Bulgaria	Croatia ¹	Czechia	Denmark	Estonia ¹	Hungary	Latvia ¹	Lithuania ¹	Poland
Period	Bulgarian lev BGN	Kuna HRK	Czech koruna CZK	Danish krone DKK	Estonian kroon EEK	Hungarian forint HUF	Latvian lats LVL	Lithuanian litas LTL	Polish zloty PLN
End of year									
2009	1.9558	7.3000	26.473	7.4418	15.6466	270.42	0.709300	3.4528	4.1045
2010	1.9558	7.3830	25.061	7.4535	15.6466	277.95	0.709400	3.4528	3.9750
2011	1.9558	7.5370	25.787	7.4342	–	314.58	0.699500	3.4528	4.4580
2012	1.9558	7.5575	25.151	7.4610	–	292.30	0.697700	3.4528	4.0740
2013	1.9558	7.6265	27.427	7.4593	–	297.04	0.702804	3.4528	4.1543
2014	1.9558	7.6580	27.735	7.4453	–	315.54	–	3.4528	4.2732
2015	1.9558	7.6380	27.023	7.4626	–	315.98	–	–	4.2639
2016	1.9558	7.5597	27.021	7.4344	–	309.83	–	–	4.4103
2017	1.9558	7.4400	25.535	7.4449	–	310.33	–	–	4.1770
2018	1.9558	7.4125	25.724	7.4673	–	320.98	–	–	4.3014
2019	1.9558	7.4395	25.408	7.4715	–	330.53	–	–	4.2568
2020	1.9558	7.5519	26.242	7.4409	–	363.89	–	–	4.5597
2021	1.9558	7.5156	24.858	7.4364	–	369.19	–	–	4.5969
2022	1.9558	7.5365	24.116	7.4365	–	400.87	–	–	4.6808
Annual averages ⁺									
2009	1.9558	7.3400	26.435	7.4462	15.6466	280.33	0.7057	3.4528	4.3276
2010	1.9558	7.2891	25.284	7.4473	15.6466	275.48	0.7087	3.4528	3.9947
2011	1.9558	7.4390	24.590	7.4506	–	279.37	0.7063	3.4528	4.1206
2012	1.9558	7.5217	25.149	7.4437	–	289.25	0.6973	3.4528	4.1847
2013	1.9558	7.5786	25.980	7.4579	–	296.87	0.7015	3.4528	4.1975
2014	1.9558	7.6344	27.536	7.4548	–	308.71	–	3.4528	4.1843
2015	1.9558	7.6137	27.279	7.4587	–	310.00	–	–	4.1841
2016	1.9558	7.5333	27.034	7.4452	–	311.44	–	–	4.3632
2017	1.9558	7.4637	26.326	7.4386	–	309.19	–	–	4.2570
2018	1.9558	7.4182	25.647	7.4532	–	318.89	–	–	4.2615
2019	1.9558	7.4180	25.670	7.4661	–	325.30	–	–	4.2976
2020	1.9558	7.5384	26.455	7.4542	–	351.25	–	–	4.4430
2021	1.9558	7.5284	25.640	7.4370	–	358.52	–	–	4.5652
2022	1.9558	7.5349	24.566	7.4396	–	391.29	–	–	4.6861

EU member countries (cont'd)		Other European and non-European countries						
	Romania	Sweden	Australia	Brazil	Canada	China	Hong Kong	Iceland
	Romanian leu RON	Swedish krona SEK	Australian dollar AUD	Brazilian real BRL	Canadian dollar CAD	Yuan (renminbi) CNY	Hong Kong dollar HKD	Icelandic krona ISK ²
End of year								
2009	4.2363	10.2520	1.6008	2.5113	1.5128	9.8350	11.1709	–
2010	4.2620	8.9655	1.3136	2.2177	1.3322	8.8220	10.3856	–
2011	4.3233	8.9120	1.2723	2.4159	1.3215	8.1588	10.0510	–
2012	4.4445	8.5820	1.2712	2.7036	1.3137	8.2207	10.2260	–
2013	4.4710	8.8591	1.5423	3.2576	1.4671	8.3491	10.6933	–
2014	4.4828	9.3930	1.4829	3.2207	1.4063	7.5358	9.4170	–
2015	4.5240	9.1895	1.4897	4.3117	1.5116	7.0608	8.4376	–
2016	4.5390	9.5525	1.4596	3.4305	1.4188	7.3202	8.1751	–
2017	4.6585	9.8438	1.5346	3.9729	1.5039	7.8044	9.3720	–
2018	4.6635	10.2548	1.6220	4.4440	1.5605	7.8751	9.9675	133.20
2019	4.7830	10.4468	1.5995	4.5157	1.4598	7.8205	8.7473	135.80
2020	4.8683	10.0343	1.5896	6.3735	1.5633	8.0225	9.5142	156.10
2021	4.9490	10.2503	1.5615	6.3101	1.4393	7.1947	8.8333	147.60
2022	4.9495	11.1218	1.5693	5.6386	1.4440	7.3582	8.3163	151.50
Annual averages ⁺								
2009	4.2399	10.6191	1.7727	2.7674	1.5850	9.5277	10.8114	–
2010	4.2122	9.5373	1.4423	2.3314	1.3651	8.9712	10.2994	–
2011	4.2391	9.0298	1.3484	2.3265	1.3761	8.9960	10.8362	–
2012	4.4593	8.7041	1.2407	2.5084	1.2842	8.1052	9.9663	–
2013	4.4190	8.6515	1.3777	2.8687	1.3684	8.1646	10.3016	–
2014	4.4437	9.0985	1.4719	3.1211	1.4661	8.1857	10.3025	–
2015	4.4454	9.3535	1.4777	3.7004	1.4186	6.9733	8.6014	–
2016	4.4904	9.4689	1.4883	3.8561	1.4659	7.3522	8.5922	–
2017	4.5688	9.6351	1.4732	3.6054	1.4647	7.6290	8.8045	–
2018	4.6540	10.2583	1.5797	4.3085	1.5294	7.8081	9.2559	127.89
2019	4.7453	10.5891	1.6109	4.4134	1.4855	7.7355	8.7715	137.28
2020	4.8383	10.4848	1.6549	5.8943	1.5300	7.8747	8.8587	154.59
2021	4.9215	10.1465	1.5749	6.3779	1.4826	7.6282	9.1932	150.15
2022	4.9313	10.6296	1.5167	5.4399	1.3695	7.0788	8.2451	142.24

* See Explanatory notes, p. 48. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB. ¹ Accession to the euro

area, see p. 7 (Table I. 1.). ² The ECB did not fix euro foreign exchange reference rates for the Icelandic krona from 4 December 2008 to 31 January 2018.

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

3. End-of-year rates and annual averages (cont'd)

EUR 1 = CU ...

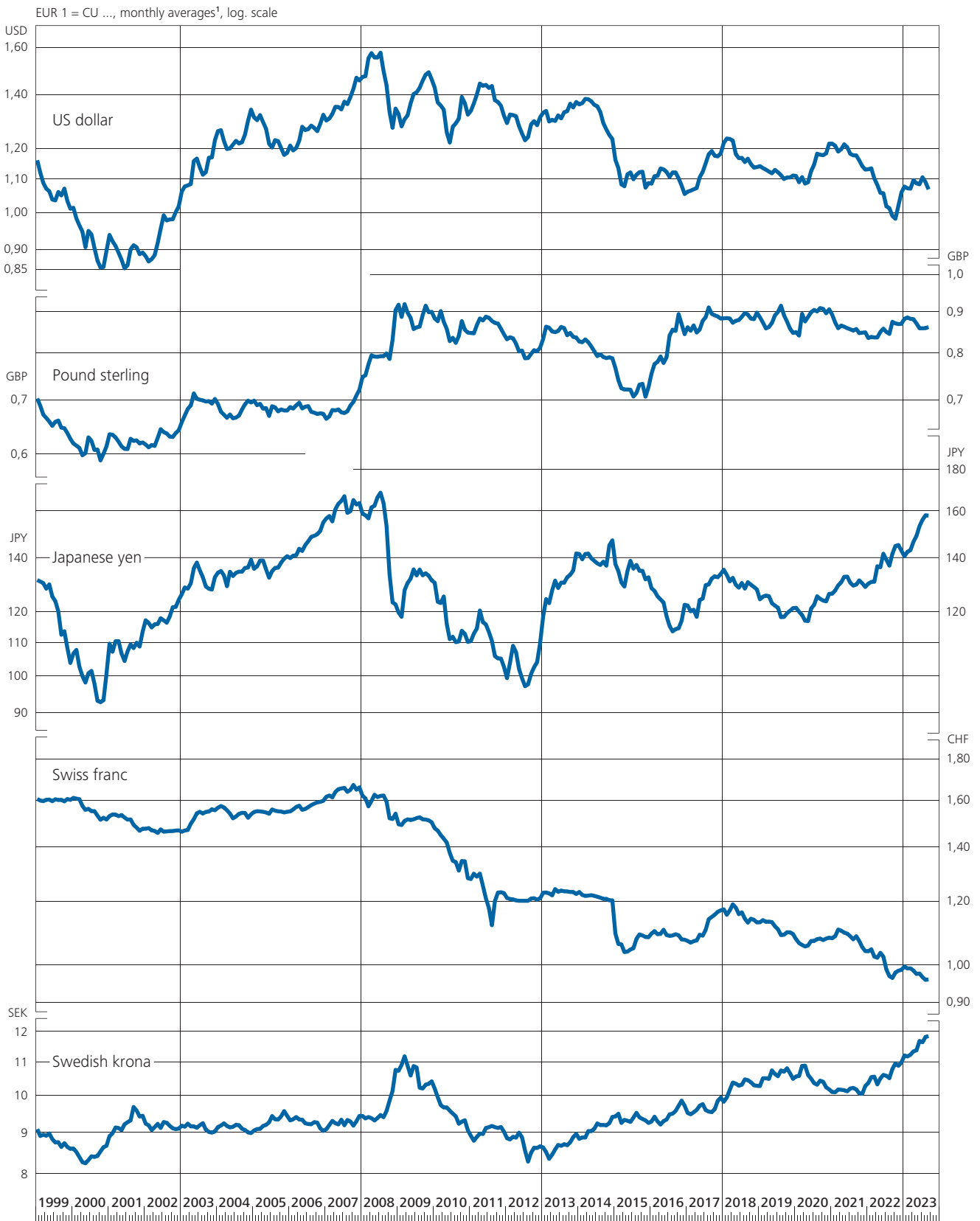
Other European and non-European countries (cont'd)									
India	Indonesia	Israel	Japan	Korea, Republic of	Malaysia	Mexico	New Zealand	Norway	
Indian rupee INR	Indonesian rupiah IDR	New shekel ILS ¹	Japanese yen JPY	South Korean won KRW	Malaysian ringgit MYR	Mexican peso MXN	New Zealand dollar NZD	Norwegian krone NOK	
End of year									
2009	67.0400	13,626.13	5.4524	133.16	1,666.97	4.9326	18.9223	1.9803	8.3000
2010	59.7580	12,002.14	4.7321	108.65	1,499.06	4.0950	16.5475	1.7200	7.8000
2011	68.7130	11,731.47	4.9453	100.20	1,498.69	4.1055	18.0512	1.6737	7.7540
2012	72.5600	12,713.97	4.9258	113.61	1,406.23	4.0347	17.1845	1.6045	7.3483
2013	85.3660	16,764.78	4.7880	144.72	1,450.93	4.5221	18.0731	1.6762	8.3630
2014	76.7190	15,076.10	4.7200	145.23	1,324.80	4.2473	17.8679	1.5525	9.0420
2015	72.0215	15,039.99	4.2481	131.07	1,280.78	4.6959	18.9145	1.5923	9.6030
2016	71.5935	14,173.43	4.0477	123.40	1,269.36	4.7287	21.7719	1.5158	9.0863
2017	76.6055	16,239.12	4.1635	135.01	1,279.61	4.8536	23.6612	1.6850	9.8403
2018	79.7298	16,500.00	4.2972	125.85	1,277.93	4.7317	22.4921	1.7056	9.9483
2019	80.1870	15,595.60	3.8845	121.94	1,296.28	4.5953	21.2202	1.6653	9.8638
2020	89.6605	17,240.76	3.9447	126.49	1,336.00	4.9340	24.4160	1.6984	10.4703
2021	84.2292	16,100.42	3.5159	130.38	1,346.38	4.7184	23.1438	1.6579	9.9888
2022	88.1710	16,519.82	3.7554	140.66	1,344.09	4.6984	20.8560	1.6798	10.5138
Annual averages +									
2009	67.3611	14,443.74	5.4668	130.34	1,772.90	4.9079	18.7989	2.2121	8.7278
2010	60.5878	12,041.70	4.9457	116.24	1,531.82	4.2668	16.7373	1.8377	8.0043
2011	64.8859	12,206.51	4.9775	110.96	1,541.23	4.2558	17.2877	1.7600	7.7934
2012	68.5973	12,045.73	4.9536	102.49	1,447.69	3.9672	16.9029	1.5867	7.4751
2013	77.9300	13,857.50	4.7948	129.66	1,453.91	4.1855	16.9641	1.6206	7.8067
2014	81.0406	15,748.92	4.7449	140.31	1,398.14	4.3446	17.6550	1.5995	8.3544
2015	71.1956	14,870.39	4.3122	134.31	1,256.54	4.3373	17.6157	1.5930	8.9496
2016	74.3717	14,720.83	4.2489	120.20	1,284.18	4.5835	20.6673	1.5886	9.2906
2017	73.5324	15,118.01	4.0622	126.71	1,276.74	4.8527	21.3286	1.5897	9.3270
2018	80.7332	16,803.22	4.2423	130.40	1,299.07	4.7634	22.7054	1.7065	9.5975
2019	78.8361	15,835.27	3.9901	122.01	1,305.32	4.6374	21.5565	1.6998	9.8511
2020	84.6392	16,627.37	3.9258	121.85	1,345.58	4.7959	24.5194	1.7561	10.7228
2021	87.4392	16,920.72	3.8208	129.88	1,354.06	4.9015	23.9852	1.6724	10.1633
2022	82.6864	15,625.25	3.5345	138.03	1,358.07	4.6279	21.1869	1.6582	10.1026

Other European and non-European countries (cont'd)									
Philippines	Russian Federation	Singapore	South Africa	Switzerland	Thailand	Turkey	United Kingdom	United States	
Philippine peso PHP	Russian rouble RUB ²	Singapore dollar SGD	South African rand ZAR	Swiss franc CHF	Thai baht THB	Turkish lira TRY	Pound sterling GBP	US dollar USD	
End of year									
2009	66.507	43.1540	2.0194	10.6660	1.4836	47.986	2.1547	0.88810	1.4406
2010	58.300	40.8200	1.7136	8.8625	1.2504	40.170	2.0694	0.86075	1.3362
2011	56.754	41.7650	1.6819	10.4830	1.2156	40.991	2.4432	0.83530	1.2939
2012	54.107	40.3295	1.6111	11.1727	1.2072	40.347	2.3551	0.81610	1.3194
2013	61.289	45.3246	1.7414	14.5660	1.2276	45.178	2.9605	0.83370	1.3791
2014	54.436	72.3370	1.6058	14.0353	1.2024	39.910	2.8320	0.77890	1.2141
2015	50.999	80.6736	1.5417	16.9530	1.0835	39.248	3.1765	0.73395	1.0887
2016	52.268	64.3000	1.5234	14.4570	1.0739	37.726	3.7072	0.85618	1.0541
2017	59.795	69.3920	1.6024	14.8054	1.1702	39.121	4.5464	0.88723	1.1993
2018	60.113	79.7153	1.5591	16.4594	1.1269	37.052	6.0588	0.89453	1.1450
2019	56.900	69.9563	1.5111	15.7773	1.0854	33.415	6.6843	0.85080	1.1234
2020	59.125	91.4671	1.6218	18.0219	1.0802	36.727	9.1131	0.89903	1.2271
2021	57.763	85.3004	1.5279	18.0625	1.0331	37.653	15.2335	0.84028	1.1326
2022	59.320	-	1.4300	18.0986	0.9847	36.835	19.9649	0.88693	1.0666
Annual averages +									
2009	66.338	44.1376	2.0241	11.6737	1.5100	47.804	2.1631	0.89094	1.3948
2010	59.739	40.2629	1.8055	9.6984	1.3803	42.014	1.9965	0.85784	1.3257
2011	60.260	40.8846	1.7489	10.0970	1.2326	42.429	2.3378	0.86788	1.3920
2012	54.246	39.9262	1.6055	10.5511	1.2053	39.928	2.3135	0.81087	1.2848
2013	56.428	42.3370	1.6619	12.8330	1.2311	40.830	2.5335	0.84926	1.3281
2014	58.979	50.9518	1.6823	14.4037	1.2146	43.147	2.9065	0.80612	1.3285
2015	50.522	68.0720	1.5255	14.1723	1.0679	38.028	3.0255	0.72584	1.1095
2016	52.556	74.1446	1.5275	16.2645	1.0902	39.043	3.3433	0.81948	1.1069
2017	56.973	65.9383	1.5588	15.0490	1.1117	38.296	4.1206	0.87667	1.1297
2018	62.210	74.0416	1.5926	15.6186	1.1550	38.164	5.7077	0.88471	1.1810
2019	57.985	72.4553	1.5273	16.1757	1.1124	34.757	6.3578	0.87777	1.1195
2020	56.615	82.7248	1.5742	18.7655	1.0705	35.708	8.0547	0.88970	1.1422
2021	58.299	87.1527	1.5891	17.4766	1.0811	37.837	10.5124	0.85960	1.1827
2022	57.314	-	1.4512	17.2086	1.0047	36.856	17.4088	0.85276	1.0530

* See Explanatory notes, p. 48. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB. ¹ Up to December 2010, ECB indicative rates. ² The ECB has suspended the publication of the euro foreign exchange reference rate against the Russian rouble with effect from 2 March 2022.

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

4. Exchange rates of major currencies

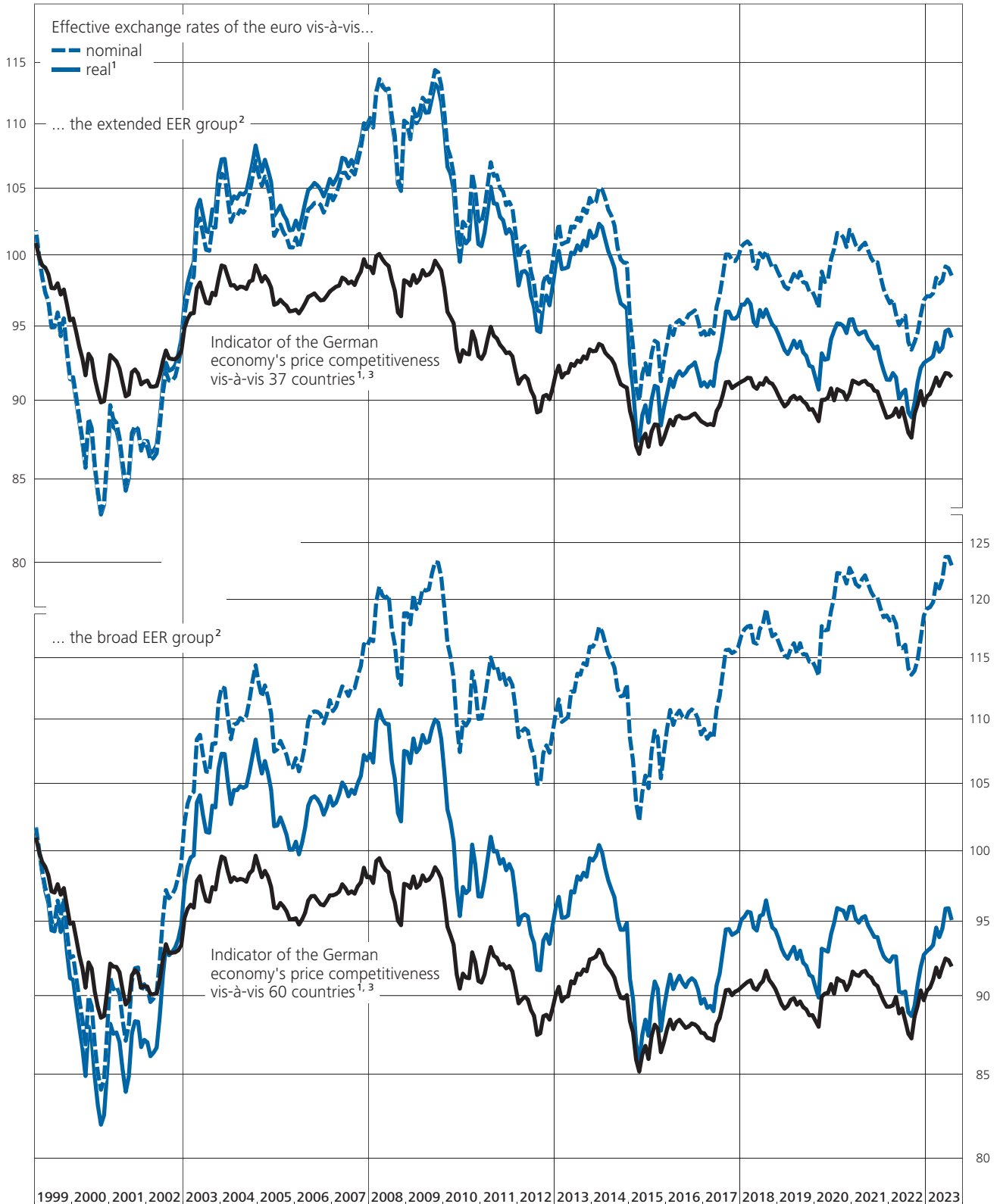


* See explanatory notes, p. 48. ¹ Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB.

III. Effective exchange rates

1. Effective exchange rates of the euro and indicators of the German economy's price competitiveness*

Q1 1999 = 100, monthly averages, log. scale



* The weights are based on trade in manufactured goods and services. For more detailed information on methodology and definition of country groups, see Explanatory notes, pp. 48–50. A decline in the figures implies an increase in competitiveness. **1** Based on consumer price indices. **2** Includes the 18 respectively 41 most important trading partners of the euro area economy. **3** Includes the 37 respectively 60 most important trading partners of the German economy.

III. Effective exchange rates

2. Effective exchange rates of the euro *

Q1 1999 = 100

Yearly, quarterly or monthly average	Effective exchange rates of the euro vis-à-vis the currencies of the					
	extended EER group of trading partners (fixed composition) ¹			broad EER group of trading partners (fixed composition) ^{2 3}		
	Nominal	In real terms based on consumer price indices	In real terms based on the deflators of gross domestic product	In real terms based on unit labour costs of national economy	Nominal	In real terms based on consumer price indices
1999	96.2	96.1	95.8	96.1	96.5	95.9
2000	87.0	86.8	85.9	85.6	88.0	86.1
2001	87.4	87.1	86.6	84.5	90.1	86.9
2002	89.7	90.3	89.8	88.2	94.4	90.6
2003	100.5	101.6	101.2	99.4	106.5	101.7
2004	104.3	105.6	104.3	102.8	111.0	105.6
2005	102.9	104.3	102.3	101.0	109.1	103.2
2006	102.9	104.3	101.8	100.0	109.3	102.6
2007	106.5	107.3	104.1	101.8	112.9	104.8
2008	110.4	110.3	106.3	105.8	117.8	107.3
2009	111.9	111.1	107.4	109.3	120.8	108.3
2010	104.6	103.3	99.1	101.8	112.1	99.3
2011	104.4	102.4	97.2	100.0	112.9	98.8
2012	98.6	97.0	91.6	94.2	107.6	94.0
2013	102.2	100.1	94.7	97.0	112.4	97.0
2014	102.4	99.5	94.6	97.2	114.7	97.4
2015	92.5	89.7	85.9	86.4	106.1	88.7
2016	95.2	91.6	88.3	p 87.6	110.1	90.7
2017	97.5	93.6	89.4	p 88.4	112.5	92.0
2018	100.0	95.8	91.0	p 90.0	117.3	95.2
2019	98.1	93.3	89.2	p 87.4	115.5	92.5
2020	99.7	93.7	90.0	p 88.4	119.2	93.9
2021	99.6	93.7	p 89.2	p 86.6	120.5	94.3
2022	95.3	p 90.8	p 84.1	p 81.7	116.1	p 90.9
2021 Oct.	98.5	92.7			119.2	93.1
Nov.	97.6	92.0	p 87.1	p 84.3	118.4	92.6
Dec.	97.0	91.4			118.6	92.4
2022 Jan.	96.6	91.3			118.2	p 92.2
Feb.	96.8	91.8	p 85.4	p 83.0	118.5	p 92.6
Mar.	95.8	91.5			117.9	p 92.6
Apr.	95.0	90.1			116.0	p 90.3
May	95.4	90.5	p 83.9	p 81.3	115.8	p 90.2
June	95.7	90.7			116.1	p 90.3
July	93.9	89.2			114.1	p 88.9
Aug.	93.4	88.9	p 82.3	p 80.0	113.6	p 88.7
Sep.	93.9	p 89.8			113.9	p 89.3
Oct.	94.5	p 91.2			114.8	p 90.7
Nov.	95.7	p 92.1	p 84.9	p 82.3	116.6	p 91.9
Dec.	96.8	p 92.5			118.6	p 92.7
2023 Jan.	97.1	p 92.6			119.2	p 93.0
Feb.	97.0	p 92.7	p 86.6	p 84.5	119.3	p 93.1
Mar.	97.3	p 92.9			119.7	p 93.4
Apr.	98.4	p 93.8			121.5	p 94.6
May	98.0	p 93.2	p 87.7	p 84.9	120.9	p 93.9
June	98.2	p 93.5			121.8	p 94.5
July	99.2	p 94.6			123.7	p 95.9
Aug.	99.0	p 94.7	...	...	123.7	p 95.9
Sep.	98.5	p 94.2			123.0	p 95.1
2023 Sep. 13	98.8	-	-	-	123.3	-
14	98.7	-	-	-	123.2	-
15	98.3	-	-	-	122.7	-
18	98.5	-	-	-	122.9	-
19	98.7	-	-	-	123.2	-
20	98.7	-	-	-	123.1	-
21	98.5	-	-	-	122.9	-
22	98.5	-	-	-	122.8	-
25	98.5	-	-	-	122.8	-
26	98.4	-	-	-	122.8	-
27	98.1	-	-	-	122.4	-
28	98.0	-	-	-	122.3	-
29	98.2	-	-	-	122.6	-
Oct. 2	98.0	-	-	-	122.3	-
3	97.8	-	-	-	122.1	-
4	97.8	-	-	-	122.2	-
5	97.9	-	-	-	122.4	-
6	98.1	-	-	-	122.7	-
9	97.8	-	-	-	122.5	-
10	98.0	-	-	-	122.7	-
11	98.0	-	-	-	122.7	-
12	98.1	-	-	-	122.7	-
13	97.8	-	-	-	122.2	-

* The weights are based on trade in manufactured goods and services. For information on methodology and grouping of countries, see Explanatory notes, pp. 48-50. A decline in the figures implies an increase in competitiveness. Where current price and wage indices were not available, estimates were used. ¹ Includes the 18 most important trading partners for the euro area economy. ² Includes the 41 most important trading partners for the euro area economy. ³ The ECB has suspended the publication

and calculation of the euro foreign exchange reference rate against Russian rouble with effect from March 2, 2022 until further notice. For the calculation of effective exchange rates, an indicative rate is used for the Russian Federation from that date. It is calculated from the daily RUB/USD rates determined by the Bank of Russia in conjunction with the respective ECB's euro foreign exchange reference rate to the US dollar.

III. Effective exchange rates

3. Indicators of the German economy's price competitiveness *

Q1 1999 = 100

Yearly, quarterly or monthly average	Based on the deflators of total sales vis-à-vis				Based on consumer price indices vis-à-vis						
	27 selected industrial countries ¹			37 countries ²	27 selected industrial countries ¹			37 countries ²	60 countries ^{2 3}		
	Total	of which:			Total	of which:					
		Euro area countries	Non-euro area countries			Euro area countries	Non-euro area countries				
1999	97.9	99.6	95.7	97.6	98.3	100.1	96.1	98.1	97.8		
2000	92.0	97.5	85.5	91.1	93.1	99.0	86.1	92.3	91.2		
2001	91.7	96.6	86.0	90.5	93.0	98.1	86.9	91.7	91.0		
2002	92.3	95.7	88.4	91.0	93.5	96.9	89.4	92.2	91.9		
2003	95.9	94.8	97.5	95.3	97.0	95.7	99.0	96.7	96.8		
2004	96.2	93.6	100.0	95.6	98.5	95.4	102.9	98.2	98.4		
2005	94.8	92.0	98.8	93.3	98.5	95.2	103.2	97.2	96.7		
2006	93.6	90.4	98.2	91.6	98.6	94.8	104.0	96.8	96.0		
2007	94.6	89.6	102.1	92.0	100.9	95.1	109.6	98.3	97.4		
2008	94.9	88.4	105.3	91.4	102.4	94.5	114.6	98.5	97.6		
2009	95.3	89.2	104.7	92.1	101.9	94.4	113.5	98.6	97.9		
2010	92.5	88.7	98.3	88.2	98.8	94.0	105.7	94.3	92.5		
2011	92.1	88.4	97.7	87.4	98.2	93.7	104.8	93.5	91.9		
2012	90.1	88.3	92.6	84.7	95.9	93.2	99.5	90.5	88.9		
2013	92.4	88.8	97.6	86.7	98.1	93.3	105.2	92.3	90.9		
2014	93.0	89.6	97.9	87.4	98.2	93.6	104.8	92.5	91.5		
2015	89.8	90.2	89.1	83.6	94.3	94.1	94.4	87.8	86.9		
2016	90.7	90.7	90.7	85.0	95.0	94.1	96.1	88.8	88.1		
2017	91.9	90.8	93.6	85.7	96.3	94.2	99.2	89.9	88.9		
2018	93.3	91.0	96.7	86.8	97.7	94.4	102.5	91.1	90.8		
2019	92.3	91.2	93.9	85.9	96.4	94.3	99.3	89.9	89.4		
2020	92.6	91.5	94.0	86.6	96.4	94.2	99.5	90.1	90.1		
2021	93.7	92.0	96.1	86.9	97.4	94.8	101.0	90.6	90.9		
2022	92.4	91.8	93.0	85.3	95.9	94.5	97.7	89.1	^p 89.0		
2020 Apr.					96.2	94.7	98.0	90.0	90.1		
May	92.1	91.8	92.4	86.6	96.3	94.8	98.2	90.2	90.2		
June					97.0	94.7	100.1	90.8	90.8		
July					96.0	93.4	99.7	90.0	90.1		
Aug.	92.7	91.2	94.7	86.9	97.0	94.1	101.1	90.7	91.1		
Sep.					96.8	93.9	101.0	90.6	91.0		
Oct.					96.7	93.9	100.8	90.5	90.9		
Nov.	93.4	91.5	96.0	87.1	96.5	93.7	100.5	90.0	90.4		
Dec.					96.9	93.6	101.8	90.5	90.8		
2021 Jan.					97.9	94.7	102.6	91.3	91.6		
Feb.	93.6	91.8	96.4	87.2	98.0	95.0	102.3	91.2	91.4		
Mar.					97.7	94.8	101.8	91.1	91.3		
Apr.					97.9	94.9	102.2	91.2	91.6		
May	93.5	91.5	96.5	86.8	98.1	94.9	102.6	91.3	91.6		
June					97.9	95.0	102.0	91.0	91.3		
July					97.7	95.2	101.3	91.0	91.2		
Aug.	93.9	92.2	96.3	87.1	97.4	95.0	100.7	90.6	90.8		
Sep.					97.3	94.9	100.7	90.6	90.6		
Oct.					96.7	94.6	99.6	90.0	90.1		
Nov.	93.7	92.6	95.2	86.6	96.2	94.3	98.6	89.4	89.6		
Dec.					95.7	94.1	97.8	88.9	89.3		
2022 Jan.					96.0	94.2	98.3	88.9	^p 89.3		
Feb.	93.0	92.1	94.3	85.8	96.1	94.1	98.8	89.0	^p 89.4		
Mar.					96.3	94.5	98.7	89.5	^p 89.9		
Apr.					96.1	94.7	97.8	88.9	^p 88.8		
May	92.3	91.6	93.2	84.9	96.5	95.2	98.1	89.5	^p 89.2		
June					95.7	94.1	97.6	88.7	^p 88.4		
July					94.9	94.1	95.6	87.9	^p 87.5		
Aug.	91.6	91.7	91.3	84.7	94.4	93.8	94.9	87.6	^p 87.2		
Sep.					95.9	94.9	96.9	89.1	^p 88.6		
Oct.					96.0	94.6	97.6	89.7	^p 89.3		
Nov.	92.5	91.9	93.2	85.8	97.0	95.3	99.2	90.6	^p 90.3		
Dec.					96.2	94.1	99.0	89.7	^p 89.7		
2023 Jan.					97.4	94.9	100.9	90.3	^p 90.3		
Feb.	93.2	91.6	95.4	86.2	97.6	95.0	101.1	90.4	^p 90.5		
Mar.					98.0	95.4	101.6	90.9	^p 91.0		
Apr.					98.5	95.5	102.7	^p 91.5	^p 91.8		
May	94.2	92.4	96.7	87.2	97.9	95.1	101.8	^p 90.9	^p 91.2		
June					98.3	95.5	102.2	^p 91.4	^p 91.9		
July					98.3	95.2	102.8	^p 91.8	^p 92.5		
Aug.	...	...	...	...	98.2	95.1	102.6	^p 91.8	^p 92.3
Sep.					^p 97.9	^p 95.1	^p 101.8	^p 91.5	^p 91.9		

* The weights are based on trade in manufactured goods and services. For information on methodology and grouping of countries, see Explanatory notes, pp. 48-50. A decline in the figures implies an increase in competitiveness. Where current price and wage indices were not available, estimates were used. ¹ Includes euro area countries (moving composition) as well as the 8 most important trading partners for the German

economy. ² Includes the 37 respectively 60 most important trading partners for the German economy. ³ As of March 2022, for the Russian Federation a monthly average indicative rate is used. It is calculated from the daily RUB/USD rates determined by the Bank of Russia in conjunction with the respective ECB's euro foreign exchange reference rate to the US dollar.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Afghanistan							
Kabul	Afghani = 100 puls	B	USD 1 =	AFN 89.6490	AFN 85.0435	AFN 73.3321	AFN 76.9500
		S	USD 1 =	AFN 89.7490	AFN 85.1435	AFN 73.4321	AFN 77.0500
	AFN	B	EUR 1 =	AFN 94.3145	AFN 93.1600	AFN 81.1550	AFN 81.7864
		S	EUR 1 =	AFN 94.5745	AFN 93.4200	AFN 81.4150	AFN 82.0464
Albania							
Tirana	Albanian lek = 100 qindarka ALL	M	USD 1 =	ALL 112.99	ALL 93.22	ALL 99.55	ALL 100.48
		M	EUR 1 =	ALL 118.82	ALL 102.87	ALL 108.21	ALL 106.63
Algeria							
Algiers	Algerian dinar = 100 centimes	B	USD 1 =	DZD 142.0187	DZD 135.4085	DZD 136.2837	DZD 137.1212
		S	USD 1 =	DZD 142.0337	DZD 135.4235	DZD 136.2987	DZD 137.1362
	DZD	B	EUR 1 =	DZD 149.5203	DZD 149.0848	DZD 147.9905	DZD 145.4856
		S	EUR 1 =	DZD 149.5785	DZD 149.1284	DZD 148.0340	DZD 145.5289
Angola							
Luanda	Kwanza = 100 cêntimos AOA	M	USD 1 =	AOA 460.058	AOA 824.689	AOA 825.001	AOA 825.527
		M	EUR 1 =	AOA 483.899	AOA 910.793	AOA 894.879	AOA 874.894
Antigua und Barbuda							
St John's	East Caribbean dollar = 100 cents	2 B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		2 S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
	XCD	V, B	EUR 1 =	XCD 2.8307	XCD 2.9632	XCD 2.9215	XCD 2.8479
		V, S	EUR 1 =	XCD 2.8609	XCD 2.9948	XCD 2.9527	XCD 2.8783
Argentina 1							
Buenos Aires	Argentine peso = 100 centavos	B	USD 1 =	ARS 130.6116	ARS 274.8500	ARS 349.0000	ARS 348.9500
		S	USD 1 =	ARS 130.8116	ARS 275.2500	ARS 350.0000	ARS 349.9500
	ARS	B	EUR 1 =	ARS 136.6931	ARS 302.0876	ARS 378.2462	ARS 368.3167
		S	EUR 1 =	ARS 137.2306	ARS 303.2154	ARS 380.2050	ARS 370.2471
Armenia							
Yerevan	Armenian dram = 100 luma AMD	M	USD 1 =	AMD 433.61	AMD 386.14	AMD 385.78	AMD 393.40
		M	EUR 1 =	AMD 457.81	AMD 426.11	AMD 419.38	AMD 417.40
Aruba							
Oranjestad	Aruban florin = 100 cents	2 B	USD 1 =	AWG 1.78	AWG 1.78	AWG 1.78	AWG 1.78
		2 S	USD 1 =	AWG 1.80	AWG 1.80	AWG 1.80	AWG 1.80
	AWG	B	EUR 100 =	AWG 187.10	AWG 196.47	AWG 193.55	AWG 188.72
		S	EUR 100 =	AWG 188.98	AWG 198.44	AWG 195.49	AWG 190.62

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. 1 See Explanatory notes on individual countries, pp. 53 ff. 2 Value against the US dollar.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Australia							
Canberra	Australian dollar = 100 cents AUD	M	AUD 1 =	USD 0.6947	USD 0.6682	USD 0.6485	USD 0.6458
		M	AUD 1 =	EUR 0.6593	EUR 0.6066	EUR 0.5940	EUR 0.6106
Austria							
Vienna	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Azerbaijan							
Baku	Azerbaijan manat = 100 qapik AZN	M	USD 1 =	AZN 1.7000	AZN 1.7000	AZN 1.7000	AZN 1.7000
		M	EUR 1 =	AZN 1.7894	AZN 1.8713	AZN 1.8561	AZN 1.7985
Bahamas							
Nassau	Bahamian dollar = 100 cents BSD	2 B	USD 1 =	BSD 0.9950	BSD 0.9950	BSD 0.9950	BSD 0.9950
		2 S	USD 1 =	BSD 1.0125	BSD 1.0125	BSD 1.0125	BSD 1.0125
		V, B	EUR 1 =	BSD 1.04774	BSD 1.09679	BSD 1.08137	BSD 1.05410
		V, S	EUR 1 =	BSD 1.06616	BSD 1.11608	BSD 1.10039	BSD 1.07264
Bahrain							
Manama	Bahraini dinar = 1,000 fils BHD	2	USD 1 =	BHD 0.376081	BHD 0.376081	BHD 0.376081	BHD 0.376081
		M	EUR 1 =	BHD 0.3952958	BHD 0.4166040	BHD 0.4110000	BHD 0.3950920
Bangladesh 1							
Dhaka	Taka = 100 poisha BDT	B	USD 1 =	BDT 93.0250	BDT 107.5000	BDT 108.5000	BDT 110.0000
		S	USD 1 =	BDT 94.2567	BDT 108.6900	BDT 109.5000	BDT 110.5000
		B	EUR 1 =	BDT 97.2996	BDT 117.9490	BDT 118.5037	BDT 115.8520
		S	EUR 1 =	BDT 99.3953	BDT 124.0805	BDT 123.4722	BDT 120.0693
Barbados							
Bridgetown	Barbados dollar = 100 cents BBD	2 B	USD 1 =	BBD 1.99375	BBD 1.99375	BBD 1.99375	BBD 1.99375
		2 S	USD 1 =	BBD 2.02768	BBD 2.02768	BBD 2.02768	BBD 2.02768
		B	EUR 1 =	BBD 2.09598	BBD 2.18648	BBD 2.17463	BBD 2.10345
		S	EUR 1 =	BBD 2.13528	BBD 2.22747	BBD 2.21540	BBD 2.14288
Belarus							
Minsk	Belarusian rouble = 100 kopecks BYN	M	USD 1 =	BYN 2.6257	BYN 3.0258	BYN 3.2135	BYN 3.2870
		M	EUR 1 =	BYN 2.7634	BYN 3.3202	BYN 3.4992	BYN 3.4646

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. 1 See Explanatory notes on individual countries, pp. 53 ff. 2 Value against the US dollar.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Belgium							
Brussels	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Belize							
Belmopan	Belize dollar = 100 cents BZD	2 B	USD 1 =	BZD 1.9825	BZD 2.0000	BZD 2.0000	BZD 2.0000
		2 S	USD 1 =	BZD 2.0175	BZD 2.0175	BZD 2.0175	BZD 2.0175
		B	EUR 1 =	BZD 2.0826	BZD 2.1865	BZD 2.1532	BZD 2.0979
		S	EUR 1 =	BZD 2.1193	BZD 2.2251	BZD 2.1912	BZD 2.1349
Benin ¹							
Porto-Novo Seat of government: Cotonou	CFA franc XOF	B	USD 1 =	XOF 621.10	XOF 591.50	XOF 598.25	XOF 615.50
		S	USD 1 =	XOF 628.10	XOF 598.50	XOF 605.25	XOF 622.50
		3	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Bermuda							
Hamilton	Bermudian dollar = 100 cents BMD	2 B	USD 1 =	BMD 0.9960	BMD 0.9960	BMD 0.9960	BMD 0.9960
		2 S	USD 1 =	BMD 1.0043	BMD 1.0043	BMD 1.0043	BMD 1.0043
		V, B	EUR 1 =	BMD 1.0488	BMD 1.0979	BMD 1.0825	BMD 1.0552
		V, S	EUR 1 =	BMD 1.0575	BMD 1.1070	BMD 1.0915	BMD 1.0640
Bhutan ¹							
Thimphu	Ngultrum = 100 chhetrum BTN	B	USD 1 =	BTN 77.80	BTN 82.05	BTN 82.50	BTN 82.99
		S	USD 1 =	BTN 80.22	BTN 83.55	BTN 84.05	BTN 84.50
		B	EUR 1 =	BTN 81.52	BTN 90.05	BTN 89.84	BTN 87.48
		S	EUR 1 =	BTN 83.79	BTN 91.30	BTN 91.15	BTN 88.70
Bolivia, Plurinational State of							
Sucre Seat of government: La Paz	Boliviano = 100 centavos BOB	B	USD 1 =	BOB 6.86	BOB 6.86	BOB 6.86	BOB 6.86
		S	USD 1 =	BOB 6.96	BOB 6.96	BOB 6.96	BOB 6.96
		V, B	EUR 1 =	BOB 7.2242	BOB 7.5618	BOB 7.4554	BOB 7.2675
		V, S	EUR 1 =	BOB 7.3295	BOB 7.6720	BOB 7.5641	BOB 7.3734
Bosnia and Herzegovina							
Sarajevo	Convertible marka = 100 feninga BAM	B	USD 1 =	BAM 1.859955	BAM 1.771971	BAM 1.792155	BAM 1.851162
		S	USD 1 =	BAM 1.869278	BAM 1.780853	BAM 1.801139	BAM 1.860442
		3	EUR 1 =	BAM 1.95583	BAM 1.95583	BAM 1.95583	BAM 1.95583
Botswana							
Gaborone	Pula = 100 thebe BWP	B	BWP 1 =	USD 0.0808	USD 0.0765	USD 0.0741	USD 0.0734
		S	BWP 1 =	USD 0.0806	USD 0.0763	USD 0.0739	USD 0.0732
		B	BWP 1 =	EUR 0.0770	EUR 0.0693	EUR 0.0682	EUR 0.0692
		S	BWP 1 =	EUR 0.0768	EUR 0.0692	EUR 0.0680	EUR 0.0691

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against the US dollar. ³ Value against the euro.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Brazil							
Brasília	Brazilian real = 100 centavos	B	USD 1 =	BRL 5.1649	BRL 4.7409	BRL 4.9213	BRL 5.0070
		S	USD 1 =	BRL 5.1655	BRL 4.7415	BRL 4.9219	BRL 5.0076
	BRL	B	EUR 1 =	BRL 5.3984	BRL 5.2226	BRL 5.3337	BRL 5.2984
		S	EUR 1 =	BRL 5.4004	BRL 5.2251	BRL 5.3353	BRL 5.3000
Brunei Darussalam ¹							
Bandar Seri Begawan	Brunei dollar = 100 cents	B	USD 1 =	BND 1.3702	BND 1.3213	BND 1.3406	BND 1.3571
		S	USD 1 =	BND 1.3874	BND 1.3411	BND 1.3583	BND 1.3744
	BND	B	EUR 1 =	BND 1.4255	BND 1.4417	BND 1.4497	BND 1.4172
		S	EUR 1 =	BND 1.4796	BND 1.4961	BND 1.5038	BND 1.4708
Bulgaria							
Sofia	Bulgarian lev = 100 stotinkas BGN	M	USD 1 =	BGN 1.86180	BGN 1.77432	BGN 1.79962	BGN 1.84617
		²	EUR 1 =	BGN 1.95583	BGN 1.95583	BGN 1.95583	BGN 1.95583
Burkina Faso ¹							
Ouagadougou	CFA franc	B	USD 1 =	XOF 621.10	XOF 591.50	XOF 598.25	XOF 615.50
		S	USD 1 =	XOF 628.10	XOF 598.50	XOF 605.25	XOF 622.50
	XOF	²	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Burundi							
Gitega	Burundi franc = 100 centimes	B	USD 1 =	BIF 2,016.8987	BIF 2,809.4333	BIF 2,815.0877	BIF 2,819.7898
		S	USD 1 =	BIF 2,056.2563	BIF 2,854.7467	BIF 2,860.4923	BIF 2,865.2702
	BIF	B	EUR 1 =	BIF 2,122.2930	BIF 3,094.7312	BIF 3,073.9350	BIF 2,983.7605
		S	EUR 1 =	BIF 2,163.7098	BIF 3,144.6462	BIF 3,123.5146	BIF 3,031.8857
Cabo Verde							
Praia	Cabo Verde escudo = 100 centavos	B	USD 1 =	CVE 105.075	CVE 100.049	CVE 101.190	CVE 104.525
		S	USD 1 =	CVE 105.277	CVE 100.251	CVE 101.392	CVE 104.727
	CVE	²	EUR 1 =	CVE 110.265	CVE 110.265	CVE 110.265	CVE 110.265
Cambodia							
Phnom Penh	Riel = 100 sen KHR	M	USD 1 =	KHR 4,089	KHR 4,130	KHR 4,158	KHR 4,122
		B	EUR 1 =	KHR 4,298	KHR 4,527	KHR 4,518	KHR 4,336
	KHR	S	EUR 1 =	KHR 4,341	KHR 4,573	KHR 4,563	KHR 4,379
Cameroon ¹							
Yaoundé	CFA franc	B	USD 1 =	XAF 619.1417	XAF 589.2006	XAF 597.0173	XAF 615.4604
		S	USD 1 =	XAF 626.1757	XAF 590.2981	XAF 607.4801	XAF 623.0003
	XAF	²	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Canada							
Ottawa	Canadian dollar = 100 cents CAD	M	USD 1 =	CAD 1.3013	CAD 1.3177	CAD 1.3531	CAD 1.3520
		M	EUR 1 =	CAD 1.3703	CAD 1.4517	CAD 1.4682	CAD 1.4304

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against the euro.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Cayman Islands							
George Town	Cayman Islands dollar = 100 cents KYD	2	KYD 1 =	USD 1.20	USD 1.20	USD 1.20	USD 1.20
		V	EUR 1 =	KYD 0.8775	KYD 0.9186	KYD 0.9057	KYD 0.8828
Central African Republic ¹							
Bangui	CFA franc XAF	B	USD 1 =	XAF 619.1417	XAF 589.2006	XAF 597.0173	XAF 615.4604
		S	USD 1 =	XAF 626.1757	XAF 590.2981	XAF 607.4801	XAF 623.0003
		3	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Chad ¹							
N'Djaména	CFA franc XAF	B	USD 1 =	XAF 619.1417	XAF 589.2006	XAF 597.0173	XAF 615.4604
		S	USD 1 =	XAF 626.1757	XAF 590.2981	XAF 607.4801	XAF 623.0003
		3	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Chile							
Santiago	Chilean peso = 100 centavos CLP	M	USD 1 =	CLP 872.33	CLP 827.84	CLP 854.22	CLP 906.84
		M	EUR 1 =	CLP 917.60	CLP 912.42	CLP 932.76	CLP 957.29
China							
Beijing	Chinese renminbi ⁴ 1 yuan (renminbi) = 10 jiao = 100 fen CNY	M	USD 1 =	CNY 6.7261	CNY 7.1305	CNY 7.1811	CNY 7.1798
		M	EUR 1 =	CNY 7.0985	CNY 7.8836	CNY 7.9271	CNY 7.5849
		M	HKD 1 =	CNY 0.85986	CNY 0.91437	CNY 0.91538	CNY 0.91763
China (Taiwan)							
Taipei	New Taiwan dollar = 100 cents TWD	B	USD 1 =	TWD 29.808	TWD 31.370	TWD 31.810	TWD 32.220
		S	USD 1 =	TWD 29.908	TWD 31.470	TWD 31.910	TWD 32.320
		B	EUR 1 =	TWD 31.15	TWD 34.43	TWD 34.51	TWD 33.71
S	EUR 1 =	TWD 31.55	TWD 34.83	TWD 34.91	TWD 34.11		
Colombia							
Bogotá	Colombian peso = 100 centavos COP	M	USD 1 =	COP 4,255.98	COP 3,923.49	COP 4,085.33	COP 4,085.57
		V	EUR 1 =	COP 4,470.963	COP 4,324.863	COP 4,439.937	COP 4,328.253
Comoros							
Moroni	Comorian franc = 100 centimes KMF	V	USD 1 =	KMF 467.20584	KMF 446.31022	KMF 452.67552	KMF 464.38338
		3	EUR 1 =	KMF 491.96775	KMF 491.96775	KMF 491.96775	KMF 491.96775
Congo ¹							
Brazzaville	CFA franc XAF	B	USD 1 =	XAF 619.1417	XAF 589.2006	XAF 597.0173	XAF 615.4604
		S	USD 1 =	XAF 626.1757	XAF 590.2981	XAF 607.4801	XAF 623.0003
		3	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against

the US dollar. ³ Value against the euro. ⁴ Currency amounts are denoted using the designation yuan (renminbi).

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Congo, Democratic Republic of the							
Kinshasa	Congo franc = 100 centimes	B	USD 1 =	CDF 1,966.9502	CDF 2,379.2894	CDF 2,439.0706	CDF 2,404.8240
		S	USD 1 =	CDF 2,047.2339	CDF 2,476.4033	CDF 2,538.6245	CDF 2,502.9801
	CDF	B	EUR 1 =	CDF 2,068.3883	CDF 2,617.2944	CDF 2,652.3542	CDF 2,523.9001
		S	EUR 1 =	CDF 2,152.8123	CDF 2,724.1228	CDF 2,760.6136	CDF 2,626.9164
Cook Islands ¹							
Avarua	Cook Islands dollar ² = 100 cents	B	NZD 1 =	EUR 0.6136	EUR 0.5704	EUR 0.5564	EUR 0.5779
		S	NZD 1 =	EUR 0.5904	EUR 0.5489	EUR 0.5353	EUR 0.5559
	NZD						
Costa Rica							
San José	Costa Rican colón = 100 céntimos	B	USD 1 =	CRC 642.58	CRC 540.94	CRC 533.90	CRC 534.47
		S	USD 1 =	CRC 650.15	CRC 548.81	CRC 540.49	CRC 542.35
	CRC	V, B	EUR 1 =	CRC 674.9581	CRC 596.2782	CRC 580.2425	CRC 566.2175
		V, S	EUR 1 =	CRC 682.8784	CRC 604.9533	CRC 587.4045	CRC 574.5656
Côte d'Ivoire ¹							
Yamoussoukro Seat of government: Abidjan	CFA franc	B	USD 1 =	XOF 621.10	XOF 591.50	XOF 598.25	XOF 615.50
		S	USD 1 =	XOF 628.10	XOF 598.50	XOF 605.25	XOF 622.50
	XOF	3	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Croatia							
Zagreb	Euro = 100 cent EUR	M	EUR 1 =	–	USD 1.1023	USD 1.0868	USD 1.0594
Cuba ¹							
Havana	Cuban peso = 100 centavos	4 ⁵	USD 1 =	CUP 24.00	CUP 24.00	CUP 24.00	CUP 24.00
		5	EUR 1 =	CUP 25.2152	CUP 26.4576	CUP 26.0280	CUP 25.4040
	CUP	6	USD 1 =	CUP 120.00 ⁷	CUP 120.00	CUP 120.00	CUP 120.00
		6	EUR 1 =	CUP 121.3464 ⁷	CUP 132.2880	CUP 130.1400	CUP 127.0200
Curaçao							
Willemstad	Netherlands Antillean guilder = 100 cents	4 B	USD 1 =	ANG 1.78	ANG 1.78	ANG 1.78	ANG 1.78
		4 S	USD 1 =	ANG 1.82	ANG 1.82	ANG 1.82	ANG 1.82
	ANG	B S	EUR 100 = EUR 100 =	ANG 187.16 ANG 190.93	ANG 196.47 ANG 200.43	ANG 193.55 ANG 197.45	ANG 188.72 ANG 192.52
Cyprus							
Nicosia	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Czechia							
Prague	Czech koruna = 100 heller CZK	M	USD 1 =	CZK 23.360	CZK 21.695	CZK 22.130	CZK 22.967
		M	EUR 1 =	CZK 24.537	CZK 23.910	CZK 24.075	CZK 24.340

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Parity in relation to the New Zealand dollar. ³ Value against the euro. ⁴ Value against the US

dollar. ⁵ Rate for transactions by general government. ⁶ Rate for non-government transactions. ⁷ Average from August to December 2022.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Denmark							
Copenhagen	Danish krone = 100 øre DKK	M	USD 100 =	DKK 708.30	DKK 676.12	DKK 685.71	DKK 703.90
		M	EUR 100 =	DKK 743.96	DKK 745.29	DKK 745.23	DKK 745.71
Djibouti							
Djibouti	Djibouti franc = 100 centimes DJF	2 B	USD 1 =	DJF 176.832	DJF 176.832	DJF 176.832	DJF 176.832
		2 S	USD 1 =	DJF 179.498	DJF 179.498	DJF 179.498	DJF 179.498
		B	EUR 1 =	DJF 184.38	DJF 193.20	DJF 191.55	DJF 184.32
		S	EUR 1 =	DJF 191.90	DJF 200.74	DJF 199.02	DJF 191.51
Dominica							
Roseau	East Caribbean dollar = 100 cents XCD	2 B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		2 S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
		V, B	EUR 1 =	XCD 2.8307	XCD 2.9632	XCD 2.9215	XCD 2.8479
		V, S	EUR 1 =	XCD 2.8609	XCD 2.9948	XCD 2.9527	XCD 2.8783
Dominican Republic							
Santo Domingo	Dominican peso = 100 centavos DOP	B	USD 1 =	DOP 54.1084	DOP 55.1139	DOP 55.6804	DOP 55.7135
		S	USD 1 =	DOP 55.4002	DOP 56.4304	DOP 56.8826	DOP 56.9196
		B	EUR 1 =	DOP 56.2465	DOP 60.5459	DOP 60.4809	DOP 59.2035
		S	EUR 1 =	DOP 59.9209	DOP 64.0416	DOP 64.0230	DOP 62.7256
Egypt							
Cairo	Egyptian pound = 100 piastres = 1,000 milliems EGP	B	USD 1 =	EGP 19.34	EGP 30.75	EGP 30.75	EGP 30.75
		S	USD 1 =	EGP 19.41	EGP 30.85	EGP 30.85	EGP 30.85
		B	EUR 1 =	EGP 20.1763	EGP 33.8435	EGP 33.3361	EGP 32.4689
		S	EUR 1 =	EGP 20.4427	EGP 34.0738	EGP 33.7468	EGP 32.7504
El Salvador ¹							
San Salvador	El Salvador colón = 100 centavos SVC	2	USD 1 =	SVC 8.75	SVC 8.75	SVC 8.75	SVC 8.75
		V	EUR 1 =	SVC 9.2138	SVC 9.6451	SVC 9.5095	SVC 9.2698
Equatorial Guinea ¹							
Malabo	CFA franc XAF	B	USD 1 =	XAF 619.1417	XAF 589.2006	XAF 597.0173	XAF 615.4604
		S	USD 1 =	XAF 626.1757	XAF 590.2981	XAF 607.4801	XAF 623.0003
		3	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Eritrea							
Asmara	Nakfa = 100 cents ERN	2 B	USD 1 =	ERN 15.00	ERN 15.00	ERN 15.00	ERN 15.00
		2 S	USD 1 =	ERN 15.15	ERN 15.15	ERN 15.15	ERN 15.15
		B	EUR 1 =	ERN 15.7695	ERN 16.7055	ERN 16.2180	ERN 15.9570
		S	EUR 1 =	ERN 16.4057	ERN 17.3417	ERN 16.8542	ERN 16.5932
Estonia							
Tallinn	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against the US dollar. ³ Value against the euro.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Eswatini ¹							
Mbabane	Lilangeni = 100 cents	B	USD 1 =	SZL 16.3727	SZL 17.6087	SZL 18.6822	SZL 19.1778
		S	USD 1 =	SZL 16.3850	SZL 17.6180	SZL 18.6910	SZL 19.1876
	SZL	B	EUR 1 =	SZL 17.1847	SZL 19.4652	SZL 20.3810	SZL 20.1255
		S	EUR 1 =	SZL 17.2046	SZL 19.4788	SZL 20.3917	SZL 20.1362
Ethiopia							
Addis Ababa	Birr = 100 cents	B	USD 1 =	ETB 51.9141	ETB 54.7611	ETB 55.0944	ETB 55.2224
		S	USD 1 =	ETB 52.9524	ETB 55.8563	ETB 56.1963	ETB 56.3268
	ETB	B	EUR 1 =	ETB 54.5005	ETB 60.2865	ETB 59.9482	ETB 58.5247
		S	EUR 1 =	ETB 55.5905	ETB 61.4922	ETB 61.1472	ETB 59.6952
Falkland Islands (Islas Malvinas)							
Stanley	Falkland Islands pound ² = 100 pence	V	USD 1 =	FKP 0.80984	FKP 0.77805	FKP 0.78872	FKP 0.81610
	FKP	V	EUR 1 =	FKP 0.85276	FKP 0.85765	FKP 0.85718	FKP 0.86458
Fiji							
Suva	Fiji dollar = 100 cents	B	FJD 1 =	USD 0.4618	USD 0.4539	USD 0.4463	USD 0.4443
		S	FJD 1 =	USD 0.4449	USD 0.4369	USD 0.4293	USD 0.4273
	FJD	B	FJD 1 =	EUR 0.4372	EUR 0.4097	EUR 0.4063	EUR 0.4179
		S	FJD 1 =	EUR 0.4251	EUR 0.3977	EUR 0.3943	EUR 0.4059
Finland							
Helsinki	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
France							
Paris	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Gabon ¹							
Libreville	CFA franc	B	USD 1 =	XAF 619.1417	XAF 589.2006	XAF 597.0173	XAF 615.4604
		S	USD 1 =	XAF 626.1757	XAF 590.2981	XAF 607.4801	XAF 623.0003
	XAF	3	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Gambia							
Banjul	Dalasi = 100 bututs GMD	M	USD 1 =	GMD 55.14	GMD 59.34	GMD 59.74	GMD 60.62
		M	EUR 1 =	GMD 59.46	GMD 65.35	GMD 64.95	GMD 64.30
Georgia							
Tbilisi	Lari = 100 tetri GEL	M	USD 1 =	GEL 2.9098	GEL 2.6433	GEL 2.6292	GEL 2.6783
		M	EUR 1 =	GEL 3.0689	GEL 2.9060	GEL 2.8621	GEL 2.8422

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Parity in relation to the pound sterling. ³ Value against the euro.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Germany							
Berlin	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Ghana							
Accra	Ghana cedi = 100 Ghana pesewas GHS	B S	USD 1 =	GHS 8.4426	GHS 10.9979	GHS 11.0137	GHS 11.1229
			USD 1 =	GHS 8.4511	GHS 11.0089	GHS 11.0247	GHS 11.1341
		B S	EUR 1 =	GHS 8.8173	GHS 12.1208	GHS 11.9409	GHS 11.7716
			EUR 1 =	GHS 8.8260	GHS 12.1336	GHS 11.9537	GHS 11.7832
Gibraltar							
Gibraltar	Gibraltar pound ² = 100 pence GIP	V V	USD 1 =	GIP 0.80984	GIP 0.77805	GIP 0.78872	GIP 0.81610
			EUR 1 =	GIP 0.85276	GIP 0.85765	GIP 0.85718	GIP 0.86458
Greece							
Athens	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Grenada							
St George's	East Caribbean dollar = 100 cents XCD	3 B 3 S	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
			USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
		V, B V, S	EUR 1 =	XCD 2.8307	XCD 2.9632	XCD 2.9215	XCD 2.8479
			EUR 1 =	XCD 2.8609	XCD 2.9948	XCD 2.9527	XCD 2.8783
Guatemala							
Guatemala City	Quetzal = 100 centavos GTQ	M V	USD 1 =	GTQ 7.75578	GTQ 7.86893	GTQ 7.87154	GTQ 7.85833
			EUR 1 =	GTQ 8.14131	GTQ 8.67392	GTQ 8.55479	GTQ 8.32511
Guinea							
Conakry	Guinean franc GNF	M M	USD 1 =	GNF 8,677.1655	GNF 8,520.8342	GNF 8,482.5287	GNF 8,487.2130
			EUR 1 =	GNF 9,119.7462	GNF 9,381.4388	GNF 9,234.0773	GNF 8,944.6683
Guinea-Bissau ¹							
Bissau	CFA franc XOF	B S	USD 1 =	XOF 621.10	XOF 591.50	XOF 598.25	XOF 615.50
			USD 1 =	XOF 628.10	XOF 598.50	XOF 605.25	XOF 622.50
		4	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Guyana							
Georgetown	Guyana dollar = 100 cents GYD	B S	USD 1 =	GYD 207.98	GYD 207.98	GYD 207.98	GYD 207.98
			USD 1 =	GYD 210.45	GYD 210.45	GYD 210.45	GYD 210.45
		B S	EUR 1 =	GYD 218.37	GYD 229.19	GYD 225.86	GYD 220.25
			EUR 1 =	GYD 221.18	GYD 232.12	GYD 228.76	GYD 223.08

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Parity in relation to the pound sterling. ³ Value against the US dollar. ⁴ Value against the euro.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Haiti							
Port-au-Prince	Gourde = 100 centimes HTG	M	USD 1 =	HTG 116.5416	HTG 136.4251	HTG 135.4823	HTG 134.2581
		V	EUR 1 =	HTG 122.1069	HTG 150.3814	HTG 147.2422	HTG 142.2330
Honduras							
Tegucigalpa	Lempira = 100 centavos HNL	B	USD 1 =	HNL 24.4976	HNL 24.5773	HNL 24.6063	HNL 24.6419
		S	USD 1 =	HNL 24.6486	HNL 24.7002	HNL 24.7293	HNL 24.7651
		V, B	EUR 1 =	HNL 25.7194	HNL 27.0916	HNL 26.7421	HNL 26.1056
		V, S	EUR 1 =	HNL 25.8786	HNL 27.2270	HNL 26.8758	HNL 26.2361
Hong Kong							
Hong Kong	Hong Kong dollar = 100 cents HKD	B	USD 1 =	HKD 7.79913	HKD 7.77050	HKD 7.81340	HKD 7.79840
		S	USD 1 =	HKD 7.86089	HKD 7.83230	HKD 7.87510	HKD 7.86020
		B	EUR 1 =	HKD 8.16743	HKD 8.52390	HKD 8.45860	HKD 8.23590
		S	EUR 1 =	HKD 8.30988	HKD 8.66670	HKD 8.60130	HKD 8.37840
Hungary							
Budapest	Hungarian forint = 100 fillér HUF	M	USD 1 =	HUF 373.12	HUF 349.14	HUF 349.37	HUF 368.76
		M	EUR 1 =	HUF 393.01	HUF 385.28	HUF 380.05	HUF 391.25
Iceland							
Reykjavík	Icelandic krona ISK	M	USD 1 =	ISK 135.359	ISK 130.91	ISK 130.93	ISK 136.78
		M	EUR 1 =	ISK 141.900	ISK 144.30	ISK 142.30	ISK 144.90
India ¹							
New Delhi	Indian rupee = 100 paise INR	M	USD 1 =	INR 78.6531	INR 82.2481	INR 82.6784	INR 83.0580
		M	EUR 1 =	INR 82.8923	INR 90.5787	INR 90.2242	INR 87.9379
Indonesia							
Jakarta	Indonesian rupiah = 100 sen IDR	B	USD 1 =	IDR 14,789.68	IDR 15,007.58	IDR 15,162.81	IDR 15,448.37
		S	USD 1 =	IDR 14,938.32	IDR 15,158.42	IDR 15,315.19	IDR 15,603.63
		B	EUR 1 =	IDR 15,596.28	IDR 16,434.80	IDR 16,460.75	IDR 16,319.66
		S	EUR 1 =	IDR 15,757.15	IDR 16,606.05	IDR 16,627.70	IDR 16,488.36
Iran, Islamic Republic of ¹							
Tehran	Iranian rial = 100 dinars IRR	2	USD 1 =	IRR 42,000	IRR 42,000	IRR 42,000	IRR 42,000
		2	EUR 1 =	IRR 44,192	IRR 46,256	IRR 45,882	IRR 44,453
		3	USD 1 =	IRR 312,767	IRR 489,500	IRR 491,000	IRR 495,000
		3	EUR 1 =	IRR 328,613	IRR 539,000	IRR 534,000	IRR 524,000

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Central bank rate. ³ Bureau de change rate.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Iraq							
Baghdad	Iraqi dinar = 1,000 fils	2 B	USD 1 =	IQD 1,450.00	IQD 1,300.00	IQD 1,300.00	IQD 1,300.00
		2 S	USD 1 =	IQD 1,460.00	IQD 1,310.00	IQD 1,310.00	IQD 1,310.00
	IQD	B	EUR 1 =	IQD 1,520.325	IQD 1,432.990	IQD 1,412.840	IQD 1,370.070
S		EUR 1 =	IQD 1,530.810	IQD 1,444.013	IQD 1,423.708	IQD 1,380.609	
Ireland							
Dublin	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Israel							
Jerusalem	New shekel = 100 agorot ILS	M	USD 1 =	ILS 3.3577	ILS 3.6930	ILS 3.8010	ILS 3.8240
		M	EUR 1 =	ILS 3.5456	ILS 4.0737	ILS 4.1329	ILS 4.0531
Italy							
Rome	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Jamaica							
Kingston	Jamaican dollar = 100 cents	B	USD 1 =	JMD 152.5317	JMD 153.5352	JMD 153.7276	JMD 154.2564
		S	USD 1 =	JMD 154.0195	JMD 155.6806	JMD 155.6448	JMD 155.8936
	JMD	B	EUR 1 =	JMD 156.9033	JMD 167.7841	JMD 168.8504	JMD 157.7926
S		EUR 1 =	JMD 164.3159	JMD 175.0946	JMD 172.2899	JMD 167.8172	
Japan							
Tokyo	Japanese yen = 100 sen	B	USD 1 =	JPY 130.62	JPY 139.97	JPY 145.20	JPY 148.58
		S	USD 1 =	JPY 132.62	JPY 141.97	JPY 147.20	JPY 150.58
	JPY	B	EUR 1 =	JPY 137.02	JPY 153.85	JPY 158.34	JPY 156.50
S		EUR 1 =	JPY 140.02	JPY 156.85	JPY 161.34	JPY 159.50	
Jordan							
Amman	Jordanian dinar = 1,000 fils	2 B	USD 1 =	JOD 0.7080	JOD 0.7080	JOD 0.7080	JOD 0.7080
		2 S	USD 1 =	JOD 0.7100	JOD 0.7100	JOD 0.7100	JOD 0.7100
	JOD	B	EUR 1 =	JOD 0.74033	JOD 0.77901	JOD 0.76853	JOD 0.74262
S		EUR 1 =	JOD 0.74820	JOD 0.78377	JOD 0.77667	JOD 0.74891	
Kazakhstan							
Astana	Tenge = 100 tiyn KZT	M	USD 1 =	KZT 460.06	KZT 445.68	KZT 461.44	KZT 474.47
		M	EUR 1 =	KZT 483.87	KZT 489.00	KZT 498.96	KZT 503.51

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. 1 See Explanatory notes on individual countries, pp. 53 ff. 2 Value against the US dollar.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Kenya ¹							
Nairobi	Kenya shilling = 100 cents	B	USD 1 =	KES 118.1835	KES 142.2647	KES 145.3059	KES 148.0000
		S	USD 1 =	KES 118.3835	KES 142.4647	KES 145.5059	KES 148.2000
	KES	B	EUR 1 =	KES 124.2511	KES 156.4812	KES 158.5594	KES 155.8724
		S	EUR 1 =	KES 124.4973	KES 156.7382	KES 158.8253	KES 156.1335
Korea, Democratic People's Republic of ¹							
Pyongyang	North Korean won = 100 chon	B	USD 1 =	.	.	.	.
		S	USD 1 =	.	.	.	.
	KPW	B	EUR 1 =	.	.	.	.
		S	EUR 1 =	.	.	.	.
Korea, Republic of							
Seoul	South Korean won = 100 chon	B	USD 1 =	KRW 1,281.21	KRW 1,267.00	KRW 1,313.60	KRW 1,348.70
		S	USD 1 =	KRW 1,306.47	KRW 1,292.00	KRW 1,339.40	KRW 1,375.30
	KRW	B	EUR 1 =	KRW 1,344.59	KRW 1,392.75	KRW 1,424.08	KRW 1,409.74
		S	EUR 1 =	KRW 1,371.74	KRW 1,420.87	KRW 1,452.84	KRW 1,438.20
Kuwait							
Kuwait	Kuwaiti dinar = 1,000 fils	B	USD 1 =	KWD 0.30500	KWD 0.30550	KWD 0.30655	KWD 0.30745
		S	USD 1 =	KWD 0.30889	KWD 0.30910	KWD 0.31015	KWD 0.31155
	KWD	B	EUR 1 =	KWD 0.320336	KWD 0.336798	KWD 0.333051	KWD 0.325067
		S	EUR 1 =	KWD 0.324428	KWD 0.340767	KWD 0.336962	KWD 0.329402
Kyrgyzstan							
Bishkek	Kyrgyz som = 100 tyiyn KGS	M	USD 1 =	KGS 83.9515	KGS 87.6389	KGS 88.2538	KGS 88.7100
		M	EUR 1 =	KGS 88.5146	KGS 96.0698	KGS 95.9098	KGS 94.1036
Lao People's Democratic Republic							
Vientiane	Kip	B	USD 1 =	LAK 14,506	LAK 19,295	LAK 19,584	LAK 20,325
		S	USD 1 =	LAK 14,554	LAK 19,418	LAK 19,709	LAK 20,455
	LAK	B	EUR 1 =	LAK 15,144	LAK 21,199	LAK 21,359	LAK 21,462
		S	EUR 1 =	LAK 15,267	LAK 21,409	LAK 21,571	LAK 21,675
Latvia							
Riga	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Lebanon ¹							
Beirut	Lebanese pound = 100 piastres	2	USD 1 =	LBP 1,507.50	LBP 15,000.00	LBP 15,000.00	LBP 15,000.00
		2	EUR 1 =	LBP 1,588.07	LBP 16,542.00	LBP 16,309.50	LBP 15,916.50
	LBP	3	USD 1 =	LBP 26,433.00	LBP 85,500.00	LBP .	LBP .
		v	EUR 1 =	LBP 27,637.68	LBP 94,246.65	LBP .	LBP .

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Official rate. ³ Sayrafa market rate.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Lesotho ¹							
Maseru	Loti = 100 lisente LSL	M	USD 1 =	LSL 16.4312	LSL 17.6433	LSL 18.5719	LSL 19.1776
			EUR 1 =	LSL 17.1975	LSL 19.4314	LSL 20.2115	LSL 20.1274
Liberia ¹							
Monrovia	Liberian dollar = 100 cents LRD	B S	USD 1 =	LRD 152.4261	LRD 185.3242	LRD 184.9012	LRD 185.9172
			USD 1 =	LRD 154.1709	LRD 187.2314	LRD 186.8059	LRD 187.5973
		V, B V, S	EUR 1 =	LRD 160.0355	LRD 204.2829	LRD 200.9506	LRD 196.9607
			EUR 1 =	LRD 161.8671	LRD 206.3852	LRD 203.0207	LRD 198.7406
Libya							
Tripoli	Libyan dinar = 1,000 dirham LYD	B S	USD 1 =	LYD 4.8064	LYD 4.7688	LYD 4.8056	LYD 4.8769
			USD 1 =	LYD 4.8305	LYD 4.7927	LYD 4.8297	LYD 4.9014
		B S	EUR 1 =	LYD 5.0421	LYD 5.2509	LYD 5.2443	LYD 5.1598
			EUR 1 =	LYD 5.0674	LYD 5.2772	LYD 5.2706	LYD 5.1856
Lithuania							
Vilnius	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Luxembourg							
Luxembourg	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Macao ¹							
Macao	Pataca = 100 avos MOP	B S	USD 1 =	MOP 8.0598	MOP 8.0286	MOP 8.0723	MOP 8.0584
			USD 1 =	MOP 8.0860	MOP 8.0548	MOP 8.0985	MOP 8.0846
		B S	EUR 1 =	MOP 8.4692	MOP 8.8363	MOP 8.7702	MOP 8.5131
			EUR 1 =	MOP 8.5204	MOP 8.8755	MOP 8.8094	MOP 8.5523
Madagascar							
Antananarivo	Ariary = 5 iraimbilanja MGA	M	USD 1 =	MGA 4,107.15	MGA 4,451.74	MGA 4,460.52	MGA 4,515.55
		M	EUR 1 =	MGA 4,306.86	MGA 4,879.50	MGA 4,839.66	MGA 4,780.28
Malawi							
Lilongwe	Malawi kwacha = 100 tambala MWK	B S	USD 1 =	MWK 946.8481	MWK 1,043.0152	MWK 1,073.8784	MWK 1,104.7956
			USD 1 =	MWK 965.2420	MWK 1,063.8600	MWK 1,095.3200	MWK 1,126.7700
		B S	EUR 1 =	MWK 1,005.5700	MWK 1,183.4551	MWK 1,207.4130	MWK 1,204.1675
			EUR 1 =	MWK 1,025.1127	MWK 1,207.1066	MWK 1,231.5209	MWK 1,228.1185
Malaysia							
Kuala Lumpur Seat of government: Putrajaya	Malaysian ringgit = 100 sen MYR	B S	USD 1 =	MYR 4.3345	MYR 4.4615	MYR 4.5493	MYR 4.6092
			USD 1 =	MYR 4.4742	MYR 4.6315	MYR 4.7227	MYR 4.7848
		B S	EUR 1 =	MYR 4.5384	MYR 4.9102	MYR 4.9374	MYR 4.8606
			EUR 1 =	MYR 4.7256	MYR 5.1137	MYR 5.1420	MYR 5.0621

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Maldives							
Malé	Rufiyaa = 100 laari MVR	M	USD 1 =	MVR 15.39	MVR 15.37	MVR 15.41	MVR 15.42
		V	EUR 1 =	MVR 16.16374	MVR 16.94235	MVR 16.74759	MVR 16.33595
Mali 1							
Bamako	CFA franc XOF	B	USD 1 =	XOF 621.10	XOF 591.50	XOF 598.25	XOF 615.50
		S	USD 1 =	XOF 628.10	XOF 598.50	XOF 605.25	XOF 622.50
		2	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Malta							
Valletta	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Mauritania							
Nouakchott	Ouguiya MRU	B	USD 1 =	MRU 36.85	MRU 37.91	MRU 37.80	MRU 37.86
		S	USD 1 =	MRU 37.21	MRU 38.29	MRU 38.17	MRU 38.23
		B	EUR 1 =	MRU 38.61	MRU 41.83	MRU 41.10	MRU 39.96
		S	EUR 1 =	MRU 38.99	MRU 42.24	MRU 41.51	MRU 40.36
Mauritius							
Port Louis	Mauritian rupee = 100 cents MUR	B	USD 1 =	MUR 43.6957	MUR 45.2443	MUR 44.9700	MUR 44.0200
		S	USD 1 =	MUR 44.5951	MUR 46.1436	MUR 45.8693	MUR 44.9193
		B	EUR 1 =	MUR 45.8582	MUR 49.7043	MUR 48.9996	MUR 46.4828
		S	EUR 1 =	MUR 47.1258	MUR 51.0896	MUR 50.3571	MUR 47.8075
Mexico							
Mexico City	Mexican peso = 100 centavos MXN	M	USD 1 =	MXN 20.0794	MXN 16.7442	MXN 17.0552	MXN 17.4279
		V	EUR 1 =	MXN 21.0432	MXN 18.4571	MXN 18.5356	MXN 18.4631
Moldova, Republic of							
Chisinau	Moldovan leu = 100 bani MDL	M	USD 1 =	MDL 18.9119	MDL 17.8913	MDL 17.8692	MDL 18.1553
		M	EUR 1 =	MDL 19.8683	MDL 19.6696	MDL 19.3095	MDL 19.1338
Mongolia							
Ulan Bator	Togrog = 100 mongo MNT	M	USD 1 =	MNT 3,164.28	MNT 3,454.55	MNT 3,472.78	MNT 3,459.50
		M	EUR 1 =	MNT 3,322.26	MNT 3,806.74	MNT 3,782.73	MNT 3,667.59
Morocco							
Rabat	Moroccan dirham = 100 centimes MAD	M	USD 1 =	MAD 10.1646	MAD 9.8060	MAD 10.1361	MAD 10.2985
		M	EUR 1 =	MAD 10.6851	MAD 10.8190	MAD 11.0200	MAD 10.8649

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. 1 See Explanatory notes on individual countries, pp. 53 ff. 2 Value against the euro.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Mozambique							
Maputo	Metical = 100 centavos	B S	USD 1 =	MZN 63.22	MZN 63.25	MZN 63.25	MZN 63.25
			USD 1 =	MZN 64.48	MZN 64.52	MZN 64.52	
	MZN	B S	EUR 1 =	MZN 66.37	MZN 69.77	MZN 68.78	MZN 67.04
EUR 1 =			MZN 67.70	MZN 71.17	MZN 70.16	MZN 68.39	
Myanmar							
Nay Pyi Taw	Kyat = 100 pyas MMK	M M	USD 1 =	MMK 1,936.17	MMK 2,100.00	MMK 2,100.00	MMK 2,100.00
			EUR 1 =	MMK 2,030.23	MMK 2,316.90	MMK 2,282.60	MMK 2,228.70
Namibia 1							
Windhoek	Namibia dollar = 100 cents NAD	M M	USD 1 =	NAD 16.3860	NAD 17.6554	NAD 18.7164	NAD 18.9536
			EUR 1 =	NAD 17.1944	NAD 19.4398	NAD 20.4338	NAD 20.0516
Nepal							
Kathmandu	Nepalese rupee = 100 paisa	B S	USD 1 =	NPR 125.93	NPR 131.30	NPR 132.08	NPR 132.57
			USD 1 =	NPR 126.53	NPR 131.90	NPR 132.68	NPR 133.17
	NPR	B S	EUR 1 =	NPR 132.44	NPR 144.64	NPR 143.79	NPR 140.47
			EUR 1 =	NPR 133.07	NPR 145.30	NPR 144.44	NPR 141.11
Netherlands							
Amsterdam Seat of government: The Hague	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
New Caledonia 1							
Nouméa	CFP franc XPF	V 2	XPF 1,000 =	USD 8.82	USD 9.24	USD 9.11	USD 8.88
			XPF 1,000 =	EUR 8.38	EUR 8.38	EUR 8.38	EUR 8.38
New Zealand							
Wellington	New Zealand dollar = 100 cents	B S	NZD 1 =	USD 0.6250	USD 0.6286	USD 0.6074	USD 0.6112
			NZD 1 =	USD 0.6015	USD 0.6050	USD 0.5846	USD 0.5881
	NZD	B S	NZD 1 =	EUR 0.6136	EUR 0.5704	EUR 0.5564	EUR 0.5779
			NZD 1 =	EUR 0.5904	EUR 0.5489	EUR 0.5353	EUR 0.5559
Nicaragua							
Managua	Córdoba = 100 centavos NIO	M V	USD 1 =	NIO 35.9031	NIO 36.4719	NIO 36.5027	NIO 36.5326
			EUR 1 =	NIO 37.69085	NIO 40.20298	NIO 39.67113	NIO 38.70264

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. 1 See Explanatory notes on individual countries, pp. 53 ff. 2 Value against the euro.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Niger ¹							
Niamey	CFA franc	B	USD 1 =	XOF 621.10	XOF 591.50	XOF 598.25	XOF 615.50
		S	USD 1 =	XOF 628.10	XOF 598.50	XOF 605.25	XOF 622.50
		2	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Nigeria ¹							
Abuja	Naira = 100 kobo	B	USD 1 =	NGN 423.217	NGN 757.022	NGN 756.523	NGN 768.260
		S	USD 1 =	NGN 424.509	NGN 758.022	NGN 757.523	NGN 769.260
	B	EUR 1 =	NGN 445.0897	NGN 834.9467	NGN 820.5248	NGN 812.9727	
	S	EUR 1 =	NGN 446.4515	NGN 835.9467	NGN 821.6094	NGN 814.0309	
North Macedonia							
Skopje	North Macedonia denar = 100 deni	B	USD 1 =	MKD 58.3798	MKD 55.5745	MKD 56.2016	MKD 58.0673
		S	USD 1 =	MKD 58.9665	MKD 56.1331	MKD 56.7664	MKD 58.6509
	B	EUR 1 =	MKD 61.3099	MKD 61.1875	MKD 61.1811	MKD 61.1972	
	S	EUR 1 =	MKD 61.9261	MKD 61.8025	MKD 61.7959	MKD 61.8122	
Norway							
Oslo	Norwegian krone = 100 øre	B	USD 1 =	NOK 9.5924	NOK 10.1743	NOK 10.5709	NOK 10.6235
		S	USD 1 =	NOK 9.6684	NOK 10.2503	NOK 10.6469	NOK 10.6995
	B	EUR 1 =	NOK 10.0833	NOK 11.2031	NOK 11.5325	NOK 11.2543	
	S	EUR 1 =	NOK 10.1683	NOK 11.2881	NOK 11.6175	NOK 11.3393	
Oman							
Muscat	Rial Omani = 1,000 baisa	3 B	USD 1 =	OMR 0.3840	OMR 0.3840	OMR 0.3840	OMR 0.3840
		3 S	USD 1 =	OMR 0.3850	OMR 0.3850	OMR 0.3850	OMR 0.3850
	B	EUR 1 =	OMR 0.4035168	OMR 0.4228992	OMR 0.4193664	OMR 0.4055040	
	S	EUR 1 =	OMR 0.4046254	OMR 0.4240390	OMR 0.4204970	OMR 0.4065985	
Pakistan							
Islamabad	Pakistani rupee = 100 paisa	B	USD 1 =	PKR 205.12	PKR 286.40	PKR 304.40	PKR 288.60
		S	USD 1 =	PKR 205.62	PKR 286.90	PKR 304.90	PKR 289.10
	B	EUR 1 =	PKR 215.59	PKR 315.94	PKR 333.10	PKR 303.69	
	S	EUR 1 =	PKR 216.12	PKR 316.49	PKR 333.64	PKR 304.21	
Panama ¹							
Panama City	Balboa = 100 centésimos PAB	4	USD 1 =	PAB 1	PAB 1	PAB 1	PAB 1
		V	EUR 1 =	PAB 1.0530	PAB 1.1023	PAB 1.0868	PAB 1.0594
Papua New Guinea							
Port Moresby	Kina = 100 toea	B	PGK 1 =	USD 0.2916	USD 0.2865	USD 0.2845	USD 0.2805
		S	PGK 1 =	USD 0.2766	USD 0.2715	USD 0.2695	USD 0.2655
	B	PGK 1 =	EUR 0.2711	EUR 0.2536	EUR 0.2540	EUR 0.2589	
	S	PGK 1 =	EUR 0.2561	EUR 0.2386	EUR 0.2390	EUR 0.2439	

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against the euro. ³ Value against the US dollar. ⁴ Parity in relation to the US dollar.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Paraguay							
Asunción	Guaraní = 100 céntimos	B S	USD 1 =	PYG 6,980.58	PYG 7,271.48	PYG 7,276.83	PYG 7,289.83
			USD 1 =	PYG 6,993.10	PYG 7,278.16	PYG 7,278.93	PYG 7,307.17
	PYG	V, B V, S	EUR 1 = EUR 1 =	PYG 7,349.72 PYG 7,362.88	PYG 8,015.35 PYG 8,022.72	PYG 7,908.46 PYG 7,910.74	PYG 7,682.75 PYG 7,701.03
Peru							
Lima	Sol = 100 céntimos	B S	USD 1 =	PEN 3.831	PEN 3.602	PEN 3.692	PEN 3.790
			USD 1 =	PEN 3.839	PEN 3.614	PEN 3.699	PEN 3.797
	PEN	B S	EUR 1 =	PEN 3.908	PEN 3.952	PEN 3.993	PEN 3.829
			EUR 1 =	PEN 4.313	PEN 4.264	PEN 4.233	PEN 4.195
Philippines							
Manila	Philippine peso = 100 centavos	B S	USD 1 =	PHP 54.25	PHP 54.60	PHP 56.30	PHP 56.40
			USD 1 =	PHP 54.75	PHP 55.10	PHP 56.80	PHP 56.90
	PHP	B S	EUR 1 = EUR 1 =	PHP 55.5211 PHP 58.7388	PHP 59.1405 PHP 61.8052	PHP 60.2336 PHP 63.2376	PHP 58.5352 PHP 61.1646
Poland							
Warsaw	Polish zloty = 100 groszy PLN	M M	USD 1 =	PLN 4.4615	PLN 3.9995	PLN 4.1074	PLN 4.3697
			EUR 1 =	PLN 4.6883	PLN 4.4135	PLN 4.4684	PLN 4.6356
Portugal							
Lisbon	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Qatar							
Doha	Qatari riyal = 100 dirham QAR	2 V	USD 1 =	QAR 3.6400	QAR 3.6400	QAR 3.6400	QAR 3.6400
			EUR 1 =	QAR 3.8219	QAR 4.0124	QAR 3.9560	QAR 3.8562
Romania							
Bucharest	Romanian leu = 100 bani RON	M M	USD 1 =	RON 4.6923	RON 4.4712	RON 4.5441	RON 4.6864
			EUR 1 =	RON 4.9335	RON 4.9346	RON 4.9412	RON 4.9746
Russian Federation							
Moscow	Russian rouble = 100 kopecks RUB	M 3	USD 1 =	RUB 68.3522	RUB 90.9783	RUB 95.9283	RUB 97.4147
			EUR 1 =	RUB 70.4832	RUB 99.9586	RUB 104.4496	RUB 103.1631

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. 1 See Explanatory notes on individual countries, pp. 53 ff. 2 Value against

the US dollar. 3 Indicative rate; according to the Bank of Russia, calculated on the basis of their established official RUB/USD rates and USD/EUR market rates.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Rwanda							
Kigali	Rwanda franc = 100 centimes	B	USD 1 =	RWF 1,021.52845	RWF 1,166.47861	RWF 1,181.51070	RWF 1,202.88047
		S	USD 1 =	RWF 1,041.95696	RWF 1,189.80583	RWF 1,205.13852	RWF 1,226.93565
	RWF	B	EUR 1 =	RWF 1,075.04828	RWF 1,286.39261	RWF 1,290.56413	RWF 1,273.00840
		S	EUR 1 =	RWF 1,096.54708	RWF 1,312.11787	RWF 1,316.37281	RWF 1,298.46600
Saint Helena, Ascension and Tristan da Cunha							
Jamestown	Saint Helena pound 2 = 100 pence SHP	V	USD 1 =	SHP 0.80984	SHP 0.77805	SHP 0.78872	SHP 0.81610
		V	EUR 1 =	SHP 0.85276	SHP 0.85765	SHP 0.85718	SHP 0.86458
Saint Kitts and Nevis							
Basseterre	East Caribbean dollar = 100 cents	3 B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		3 S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
	XCD	V, B	EUR 1 =	XCD 2.8307	XCD 2.9632	XCD 2.9215	XCD 2.8479
		V, S	EUR 1 =	XCD 2.8609	XCD 2.9948	XCD 2.9527	XCD 2.8783
Saint Lucia							
Castries	East Caribbean dollar = 100 cents	3 B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		3 S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
	XCD	V, B	EUR 1 =	XCD 2.8307	XCD 2.9632	XCD 2.9215	XCD 2.8479
		V, S	EUR 1 =	XCD 2.8609	XCD 2.9948	XCD 2.9527	XCD 2.8783
Saint Vincent and the Grenadines							
Kingstown	East Caribbean dollar = 100 cents	3 B	USD 1 =	XCD 2.6882	XCD 2.6882	XCD 2.6882	XCD 2.6882
		3 S	USD 1 =	XCD 2.7169	XCD 2.7169	XCD 2.7169	XCD 2.7169
	XCD	V, B	EUR 1 =	XCD 2.8307	XCD 2.9632	XCD 2.9215	XCD 2.8479
		V, S	EUR 1 =	XCD 2.8609	XCD 2.9948	XCD 2.9527	XCD 2.8783
Samoa							
Apia	Tala = 100 sene WST	M	WST 1 =	USD 0.37137	USD 0.36553	USD 0.36042	USD 0.35943
		M	WST 1 =	EUR 0.35358	EUR 0.33141	EUR 0.32998	EUR 0.34056
Sao Tome and Principe							
São Tomé	Dobra = 100 cêntimos	B	USD 1 =	STN 23.3986	STN 22.2525	STN 22.5060	STN 23.2536
		S	USD 1 =	STN 23.7496	STN 22.5863	STN 22.8436	STN 23.6024
	STN	4	EUR 1 =	STN 24.5000	STN 24.5000	STN 24.5000	STN 24.5000
Saudi Arabia							
Riyadh	Saudi riyal = 100 halalah SAR	3	USD 1 =	SAR 3.75	SAR 3.75	SAR 3.75	SAR 3.75
		V	EUR 1 =	SAR 3.94893	SAR 4.13363	SAR 4.07550	SAR 3.97275

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. 1 See Explanatory notes on individual countries, pp. 53 ff. 2 Parity in relation to the pound sterling. 3 Value against the US dollar. 4 Value against the euro.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country ¹ Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month			
					July 2023	August 2023	September 2023	
Senegal ¹								
Dakar	CFA franc	B	USD 1 =	XOF 621.10	XOF 591.50	XOF 598.25	XOF 615.50	
		S	USD 1 =	XOF 628.10	XOF 598.50	XOF 605.25	XOF 622.50	
		XOF	2	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Serbia								
Belgrade	Serbian dinar = 100 para	B	USD 1 =	RSD 111.4415	RSD 106.1613	RSD 107.0235	RSD 110.4214	
		S	USD 1 =	RSD 112.1122	RSD 106.8001	RSD 107.6675	RSD 111.0860	
		RSD	B	EUR 1 =	RSD 117.1136	RSD 116.8729	RSD 116.8590	RSD 116.8480
		S	EUR 1 =	RSD 117.8184	RSD 117.5763	RSD 117.5622	RSD 117.5512	
Seychelles								
Victoria	Seychelles rupee = 100 cents	B	USD 1 =	SCR 13.9344	SCR 13.6662	SCR 13.6826	SCR 13.8883	
		S	USD 1 =	SCR 14.4945	SCR 14.1172	SCR 14.1654	SCR 14.3327	
		SCR	B	EUR 1 =	SCR 14.6660	SCR 15.0545	SCR 15.0254	SCR 14.5229
		S	EUR 1 =	SCR 15.3796	SCR 15.6272	SCR 15.6008	SCR 15.4221	
Sierra Leone ¹								
Freetown	Leone = 100 cents	B	USD 1 =	SLE 14.2462 ³	SLE 21.0217	SLE 21.9015	SLE 22.4250	
		S	USD 1 =	SLE 14.4514 ³	SLE 21.2330	SLE 22.1216	SLE 22.6504	
		SLE	B	EUR 1 =	SLE 14.9589 ³	SLE 23.1628	SLE 23.8490	SLE 23.7751
		S	EUR 1 =	SLE 15.1726 ³	SLE 23.3874	SLE 24.0389	SLE 24.0115	
Singapore ¹								
Singapore	Singapore dollar = 100 cents	M	USD 1 =	SGD 1.3781	SGD 1.3318	SGD 1.3503	SGD 1.3648	
			SGD	M	EUR 1 =	SGD 1.4496	SGD 1.4665	SGD 1.4746	SGD 1.4432
Sint Maarten (southern part)								
Philipsburg	Netherlands Antillean guilder = 100 cents	4 B	USD 1 =	ANG 1.78	ANG 1.78	ANG 1.78	ANG 1.78	
		4 S	USD 1 =	ANG 1.82	ANG 1.82	ANG 1.82	ANG 1.82	
		ANG	B	EUR 100 =	ANG 187.16	ANG 196.47	ANG 193.55	ANG 188.72
		S	EUR 100 =	ANG 190.93	ANG 200.43	ANG 197.45	ANG 192.52	
Slovakia								
Bratislava	Euro = 100 cent		M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
	EUR							
Slovenia								
Ljubljana	Euro = 100 cent		M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
	EUR							
Solomon Islands								
Honiara	Solomon Islands dollar = 100 cents	M	SBD 1 =	USD 0.1224	USD 0.1198	USD 0.1186	USD 0.1180	
			SBD	M	SBD 1 =	EUR 0.11647	EUR 0.10820	EUR 0.10860	EUR 0.11170

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against the euro. ³ To calculate the annual average for 2022, the exchange rates set in (old)

leone were converted at a rate of 1,000:1 and included in the calculation. ⁴ Value against the US dollar.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Somalia ¹							
Mogadishu	Somali shilling	M	USD 1 =	.	.	.	.
	SOS	M	EUR 1 =	.	.	.	.
South Africa							
Pretoria Seat of parliament: Cape Town	South African rand = 100 cents	B	USD 1 =	ZAR 16.1790	ZAR 17.5820	ZAR 18.6068	ZAR 18.6574
		S	USD 1 =	ZAR 16.5462	ZAR 17.9471	ZAR 18.9727	ZAR 19.0259
	ZAR	B	EUR 1 =	ZAR 16.9056	ZAR 19.2825	ZAR 20.0569	ZAR 19.6026
		S	EUR 1 =	ZAR 17.5219	ZAR 19.9349	ZAR 20.7178	ZAR 20.2569
South Sudan							
Juba	South Sudanese pound = 100 piastres	M	USD 1 =	SSP 543.6821	SSP 998.3628	SSP 1,004.9566	SSP 1,013.7309
		M	EUR 1 =	SSP 567.6622	SSP 1,112.0778	SSP 1,087.0782	SSP 1,065.2799
Spain							
Madrid	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 1.1023	USD 1.0868	USD 1.0594
Sri Lanka							
Colombo	Sri Lanka rupee = 100 cents	B	USD 1 =	LKR 322.6410	LKR 322.9613	LKR 315.3357	LKR 318.2642
		S	USD 1 =	LKR 332.4230	LKR 335.4036	LKR 326.9396	LKR 328.9001
	LKR	B	EUR 1 =	LKR 336.5339	LKR 354.1359	LKR 342.6382	LKR 334.5254
		S	EUR 1 =	LKR 349.6294	LKR 370.9848	LKR 358.9868	LKR 349.5066
Sudan							
Khartoum	Sudanese pound = 100 piastres	B	USD 1 =	SDG 550.4849	SDG 579.6500	SDG 611.0000	SDG 638.0000
		S	USD 1 =	SDG 555.4137	SDG 589.9000	SDG 615.5900	SDG 642.7900
	SDG	B	EUR 1 =	SDG 576.4179	SDG 620.3300	SDG 648.1900	SDG 654.9800
		S	EUR 1 =	SDG 581.9707	SDG 631.3200	SDG 659.6700	SDG 666.5800
Suriname							
Paramaribo	Suriname dollar = 100 cents	B	USD 1 =	SRD 24.865	SRD 38.522	SRD 38.335	SRD 38.435
		S	USD 1 =	SRD 25.202	SRD 38.602	SRD 38.491	SRD 38.531
	SRD	B	EUR 1 =	SRD 25.760	SRD 41.605	SRD 40.614	SRD 39.767
		S	EUR 1 =	SRD 26.367	SRD 42.174	SRD 41.202	SRD 40.855
Sweden							
Stockholm	Swedish krona = 100 öre SEK	M	USD 1 =	SEK 10.1246	SEK 10.5225	SEK 10.8668	SEK 10.8413
		M	EUR 1 =	SEK 10.6623	SEK 11.6000	SEK 11.8434	SEK 11.4923

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Switzerland							
Berne	Swiss franc = 100 rappen/centimes CHF	B	USD 1 =	CHF 0.9550	CHF 0.8707	CHF 0.8808	CHF 0.9097
		B	EUR 1 =	CHF 1.0022	CHF 0.9606	CHF 0.9582	CHF 0.9652
Syrian Arab Republic ¹							
Damascus	Syrian pound = 100 piastres SYP	2 B	USD 1 =	SYP 2,791.67	SYP 8,500.00	SYP 8,500.00	SYP 8,500.00
		2 S	USD 1 =	SYP 2,819.58	SYP 8,585.00	SYP 8,585.00	SYP 8,585.00
		2 B	EUR 1 =	SYP 2,924.92	SYP 9,355.00	SYP 9,281.15	SYP 9,001.50
		2 S	EUR 1 =	SYP 2,954.17	SYP 9,448.55	SYP 9,373.96	SYP 9,091.52
Tajikistan							
Dushanbe	Somoni = 100 diram TJS	M	USD 1 =	TJS 11.0237	TJS 10.9196	TJS 10.9624	TJS 10.9582
		M	EUR 1 =	TJS 11.6340	TJS 12.0072	TJS 11.9326	TJS 11.6113
Tanzania, United Republic of							
Dodoma Seat of Government: Dar es Salaam	Tanzania shilling = 100 cents TZS	B	USD 1 =	TZS 2,292.0223	TZS 2,371.2871	TZS 2,431.6634	TZS 2,469.4158
		S	USD 1 =	TZS 2,314.9425	TZS 2,395.0000	TZS 2,455.9800	TZS 2,494.1100
		B	EUR 1 =	TZS 2,411.5148	TZS 2,612.6842	TZS 2,652.9447	TZS 2,602.0235
		S	EUR 1 =	TZS 2,436.4017	TZS 2,639.0505	TZS 2,680.4566	TZS 2,629.0414
Thailand							
Bangkok	Thai baht = 100 satang THB	B	USD 1 =	THB 34.9309	THB 34.0821	THB 34.7745	THB 36.3944
		S	USD 1 =	THB 35.2606	THB 34.4111	THB 35.0956	THB 36.7222
		B	EUR 1 =	THB 36.5572	THB 37.3438	THB 37.7842	THB 38.3036
		S	EUR 1 =	THB 37.2970	THB 38.0986	THB 38.4872	THB 39.0417
Togo ¹							
Lomé	CFA franc XOF	B	USD 1 =	XOF 621.10	XOF 591.50	XOF 598.25	XOF 615.50
		S	USD 1 =	XOF 628.10	XOF 598.50	XOF 605.25	XOF 622.50
		3	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Tonga							
Nuku'alofa	Pa'anga = 100 seniti TOP	M	TOP 1 =	USD 0.4289	USD 0.4244	USD 0.4197	USD 0.4186
		M	TOP 1 =	EUR 0.4063	EUR 0.3836	EUR 0.3827	EUR 0.3949
Trinidad and Tobago							
Port-of-Spain	Trinidad and Tobago dollar = 100 cents TTD	B	USD 1 =	TTD 6.7071	TTD 6.6830	TTD 6.6983	TTD 6.7385
		S	USD 1 =	TTD 6.7696	TTD 6.7775	TTD 6.7550	TTD 6.7586
		B	EUR 1 =	TTD 7.0698	TTD 7.5100	TTD 7.0126	TTD 7.3295
		S	EUR 1 =	TTD 7.5865	TTD 7.9638	TTD 8.1131	TTD 7.7460

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Bank rate. ³ Value against the euro.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Tunisia							
Tunis	Tunisian dinar = 1,000 millimes	B	USD 1 =	TND 3.0727	TND 3.0749	TND 3.1104	TND 3.1717
		S	USD 1 =	TND 3.0757	TND 3.0779	TND 3.1136	TND 3.1748
	TND	B	EUR 1 =	TND 3.2295	TND 3.3917	TND 3.3798	TND 3.3563
		S	EUR 1 =	TND 3.2327	TND 3.3950	TND 3.3831	TND 3.3596
Turkey							
Ankara	Turkish lira = 100 kuruş	B	USD 1 =	TRY 16.5529	TRY 26.9394	TRY 26.5763	TRY 27.3752
		S	USD 1 =	TRY 16.5827	TRY 26.9879	TRY 26.6242	TRY 27.4245
	TRY	B	EUR 1 =	TRY 17.4960	TRY 29.5700	TRY 28.7308	TRY 28.8083
		S	EUR 1 =	TRY 17.5275	TRY 29.6233	TRY 28.7825	TRY 28.8602
Turkmenistan ¹							
Ashgabat	Turkmen manat = 100 tenge TMT	2	USD 1 =	TMT 3.50	TMT 3.50	TMT 3.50	TMT 3.50
		M	EUR 1 =	TMT 3.6870	TMT 3.8553	TMT 3.8094	TMT 3.7118
Uganda							
Kampala	Uganda shilling	B	USD 1 =	UGX 3,706.26	UGX 3,608.38	UGX 3,714.04	UGX 3,751.21
		S	USD 1 =	UGX 3,716.26	UGX 3,618.38	UGX 3,724.04	UGX 3,761.21
	UGX	B	EUR 1 =	UGX 3,882.75	UGX 3,973.19	UGX 4,054.25	UGX 3,970.28
		S	EUR 1 =	UGX 3,893.24	UGX 3,984.20	UGX 4,065.16	UGX 3,980.86
Ukraine ¹							
Kyiv	Hryvnia = 100 kopyok UAH	M	USD 1 =	UAH 32.4179	UAH 36.5686 ²	UAH 36.5686 ²	UAH 36.5686 ²
		M	EUR 1 =	UAH 34.0188	UAH 40.2584	UAH 39.7903	UAH 38.5543
United Arab Emirates ¹							
Abu Dhabi	United Arab Emirates dirham = 100 fils AED	2	USD 1 =	AED 3.6725	AED 3.6725	AED 3.6725	AED 3.6725
		V	EUR 1 =	AED 3.8561	AED 4.0482	AED 3.9913	AED 3.8906
United Kingdom ¹							
London	Pound sterling = 100 pence GBP	M	GBP 1 =	USD 1.2362	USD 1.2863	USD 1.2673	USD 1.2207
		M	EUR 1 =	GBP 0.8548	GBP 0.8571	GBP 0.8565	GBP 0.8675
United States							
Washington	US dollar = 100 cents USD	M	EUR 1 =	USD 1.05281	USD 1.0993	USD 1.0841	USD 1.0570
		M	GBP 1 =	USD 1.23635	USD 1.2837	USD 1.2673	USD 1.2197

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Value against the US dollar.

IV. Overview of world currencies *

1. Currencies and exchange rates in individual countries (cont'd)

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					July 2023	August 2023	September 2023
Uruguay							
Montevideo	Uruguayan peso = 100 centésimos UYU	M	USD 1 =	UYU 41.126	UYU 37.429	UYU 37.592	UYU 38.556
		M	EUR 1 =	UYU 43.3572	UYU 41.1682	UYU 40.7760	UYU 40.7845
Uzbekistan							
Tashkent	Uzbekistan sum = 100 tiyin UZS	M	USD 1 =	UZS 11,046.36	UZS 11,600.17	UZS 12,089.97	UZS 12,175.07
		M	EUR 1 =	UZS 11,628.35	UZS 12,730.03	UZS 13,164.77	UZS 12,831.31
Vanuatu							
Port Vila	Vatu VUV	B	USD 1 =	VUV 114.46	VUV 115.22	VUV 118.15	VUV 118.94
		S	USD 1 =	VUV 121.75	VUV 122.55	VUV 125.66	VUV 126.51
		B	EUR 1 =	VUV 121.15	VUV 128.72	VUV 130.08	VUV 126.64
		S	EUR 1 =	VUV 126.04	VUV 133.92	VUV 135.34	VUV 131.76
Venezuela, Bolivarian Republic of ¹							
Caracas	Bolívar = 100 céntimos VES	B	USD 1 =	VES 7.269381	VES 29.429941	VES 32.516904	VES 34.339337
		S	USD 1 =	VES 7.287600	VES 29.503700	VES 32.598400	VES 34.425400
		B	EUR 1 =	VES 7.602909	VES 32.437681	VES 35.250925	VES 36.316939
		S	EUR 1 =	VES 7.621964	VES 32.518978	VES 35.339273	VES 36.407959
Viet Nam							
Hanoi	Dong = 10 hào = 100 xu VND	B	USD 1 =	VND 23,307	VND 23,515	VND 23,900	VND 24,120
		S	USD 1 =	VND 23,590	VND 23,855	VND 24,240	VND 24,460
		B	EUR 1 =	VND 24,239.45	VND 25,682.99	VND 25,868.66	VND 25,342.70
		S	EUR 1 =	VND 25,356.99	VND 26,849.48	VND 27,042.86	VND 26,466.85
Yemen ¹							
Sana'a	Yemeni rial = 100 fils YER	B	USD 1 =	.	.	.	.
		S	USD 1 =	.	.	.	.
		B	EUR 1 =	.	.	.	.
		S	EUR 1 =	.	.	.	.
Zambia							
Lusaka	Kwacha = 100 ngwee ZMW	B	USD 1 =	ZMW 17.0151	ZMW 18.7932	ZMW 20.1707	ZMW 20.9902
		S	USD 1 =	ZMW 17.0644	ZMW 18.8430	ZMW 20.2197	ZMW 21.0390
		B	EUR 1 =	ZMW 17.8910	ZMW 20.7158	ZMW 21.8973	ZMW 22.2517
		S	EUR 1 =	ZMW 17.9480	ZMW 20.7725	ZMW 21.9586	ZMW 22.3055
Zimbabwe ¹							
Harare	Zimbabwe dollar = 100 cents ZWL	²	USD 1 =	ZWL 532.13706 ³	ZWL 4,516.80250	ZWL 4,608.10660	ZWL 5,466.74660
		²	EUR 1 =	ZWL 545.09904 ³	ZWL 4,971.88270	ZWL 5,031.61965	ZWL 5,782.72445

Source: Central bank or a commercial bank of the country concerned. * See Explanatory notes, p. 50. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Interbank rate. ³ Average from May to December 2022.

IV. Overview of world currencies*

2. Exchange rates of the US dollar against major currencies



* See Explanatory notes, p. 50. ¹ Calculated on the basis of national central banks' daily rates.

V. Value of the special drawing right in selected currencies *

SDR 1 = CU ... , year-end and month-end data as well as daily data

Period	US dollar USD	Euro EUR	Chinese yuan (renminbi) CNY	Japanese yen JPY	Pound sterling GBP	Canadian dollar CAD	Swiss franc CHF	Danish krone DKK	Norwegian krone NOK	Swedish krona SEK
2008	1.54027	1.10675	10.52710	140.464	1.056570	1.88621	1.63839	8.18003	10.78020	12.0833
2009	1.56769	1.08822	10.70450	143.797	0.968007	1.64075	1.61551	8.10688	9.05608	11.3070
2010	1.54003	1.15966	10.19950	125.436	0.997755	1.54142	1.44702	8.64469	9.06742	10.4761
2011	1.53527	1.18654	9.67352	119.321	0.992989	1.56254	1.44453	8.82099	9.20039	10.6293
2012	1.53692	1.16583	9.66660	133.020	0.953662	1.52954	1.40874	8.69762	8.55432	10.0140
2013	1.54000	1.11732	9.39770	162.162	0.935148	1.63856	1.37291	8.33556	9.41398	10.0229
2014	1.44881	1.19332	8.86525	174.733	0.928247	1.68076	1.43301	8.86611	10.76930	11.3176
2015	1.38573	1.27283	8.99548	167.116	0.935104	1.91785	1.37478	9.47221	12.20690	11.5742
2016	1.34433	1.27534	9.34283	157.018	1.092780	1.80503	1.36826	9.48128	11.58810	12.2295
2017	1.42413	1.18747	9.27343	160.785	1.054020	1.78837	1.38967	8.84056	11.68500	11.7238
2018	1.39079	1.21424	9.53107	154.141	1.095500	1.89153	1.36451	9.06709	12.11060	12.4768
2019	1.38283	1.23588	9.66184	150.894	1.053860	1.80583	1.34362	9.23156	12.16850	12.8879
2020	1.44027	1.18385	9.41203	149.255	1.073230	1.85161	1.28162	8.80553	12.57700	11.9614
2021	1.39959	1.23748	8.91599	159.848	1.041830	1.79808	1.28791	9.20217	12.38880	12.7593
2022	1.33084	1.25291	9.29731	176.537	1.102790	1.81035	1.23808	9.31203	13.08650	13.9407
2021 Oct.	1.41538	1.21544	9.04486	160.858	1.026830	1.75281	1.28948	9.04159	11.85000	12.0583
Nov.	1.40080	1.23277	8.92530	159.411	1.049950	1.79190	1.28712	9.16792	12.67230	12.6469
Dec.	1.39959	1.23748	8.91599	159.848	1.041830	1.79808	1.28791	9.20217	12.38880	12.7593
2022 Jan.	1.39178	1.24756	8.85089	160.653	1.038330	1.77021	1.29986	9.28428	12.48620	13.0564
Feb.	1.39486	1.24553	8.80282	161.176	1.041370	1.77120	1.28565	9.26715	12.38860	13.2894
Mar.	1.38240	1.24529	8.76816	169.206	1.053220	1.72745	1.27886	9.26235	12.09310	12.8067
Apr.	1.34430	1.27543	8.85442	174.625	1.069500	1.71963	1.30471	9.49109	12.43860	13.1293
May	1.34970	1.25987	8.99062	173.032	1.072130	1.70710	1.29578	9.37269	12.72250	13.2277
June	1.32778	1.27831	8.88920	181.415	1.096520	1.71098	1.27374	9.50959	13.22850	13.5691
July	1.32360	1.29790	8.90599	176.039	1.086520	1.69738	1.25954	9.66137	12.87810	13.4163
Aug.	1.30134	1.30134	8.97070	180.379	1.120300	1.70619	1.27545	9.67820	12.93380	13.8835
Sep.	1.27988	1.31297	9.08174	185.250	1.156590	1.74885	1.25364	9.76381	13.89620	14.2357
Oct.	1.28329	1.29443	9.35891	190.236	1.112280	1.75157	1.28310	9.63623	13.33620	14.1058
Nov.	1.31484	1.26719	9.39038	182.500	1.094700	1.77609	1.24864	9.42356	13.00750	13.8837
Dec.	1.33084	1.25291	9.29731	176.537	1.102790	1.81035	1.23808	9.31203	13.08650	13.9407
2023 Jan.	1.34847	1.24478	9.10606	175.854	1.094180	1.80021	1.24976	9.25969	13.57840	14.0447
Feb.	1.32879	1.25133	9.22824	181.100	1.098620	1.80834	1.24633	9.31532	13.72870	13.8066
Mar.	1.34523	1.23699	9.23975	179.561	1.087010	1.82050	1.23405	9.21379	14.09430	13.9284
Apr.	1.34701	1.22667	9.32557	180.566	1.080760	1.82897	1.20638	9.14336	14.46360	13.8587
May	1.32746	1.24260	9.43663	185.579	1.073650	1.80575	1.20872	9.25480	14.91670	14.3816
June	1.33007	1.22407	9.65670	192.701	1.051690	1.76102	1.19833	9.05633	14.32650	14.4325
July	1.34294	1.21830	9.59840	189.247	1.043830	1.76959	1.16809	9.07985	13.62130	14.1310
Aug.	1.32994	1.22372	9.69518	194.265	1.048850	1.79954	1.17194	9.11951	14.17060	14.4522
Sep.	1.31498	1.24125	9.57753	196.510	1.071920	1.77785	1.19808	9.25609	13.96830	14.2561
2023 Aug. 23	1.32718	1.22830	9.67558	193.370	1.051110	1.79859	1.16964	9.15457	14.21510	14.5445
24	1.32988	1.22683	9.68345	192.541	1.048390	1.80399	1.17030	9.14470	14.20370	14.5395
25	1.32684	1.22765	9.67081	193.851	1.052000	1.80530	1.17478	9.15055	14.14000	14.6276
28	1.32630	1.22714	9.67558	194.289	.	1.80323	1.17172	9.14587	14.19870	14.6255
29	1.32598	1.22742	9.66697	194.230	1.053330	1.80241	1.17363	9.14779	14.19450	14.5468
30	1.33014	1.22189	9.69998	194.214	1.050250	1.80035	1.16946	9.10680	14.10790	14.4969
31	1.32994	1.22372	9.69518	194.265	1.048850	1.79954	1.17194	9.11951	14.17060	14.4522
Sep. 1	1.33002	1.22650	9.65726	193.703	1.049030	1.80616	1.17394	9.14077	14.08750	14.5553
5	1.32284	1.23273	9.65689	194.457	1.053680	1.80263	1.17574	9.18788	14.23000	14.6694
6	1.32284	1.23112	9.67062	195.515	1.053970	1.80620	1.17746	9.17953	14.14800	14.6766
7	1.32011	1.23260	9.67258	195.165	1.059820	1.80512	1.17833	9.19506	14.15080	14.6845
8	1.31985	1.23304	9.69565	193.886	1.057360	1.79922	1.17704	9.19735	14.08390	14.6646
11	1.32231	1.23303	9.64227	194.273	1.056700	1.79583	1.17870	9.19625	14.08610	14.6325
12	1.32146	1.23351	9.64078	193.765	1.059840	1.79190	1.17861	9.20209	14.12860	14.6632
13	1.32265	1.23232	9.63326	194.747	1.060030	1.79233	1.18086	9.19430	14.14460	14.6726
14	1.32243	1.23247	9.62279	194.557	1.060880	1.78727	1.18120	9.19439	14.17810	14.7044
15	1.31872	1.23731	9.58350	194.511	1.062410	1.78370	1.18184	9.22696	14.13250	14.7177
18	1.31895	1.23694	9.61705	.	1.063460	1.77940	1.18191	9.22160	14.31000	14.7625
19	1.32004	1.23219	9.63094	194.931	1.064890	.	1.18322	9.18603	14.15850	14.7001
20	1.31965	1.23309	9.63243	195.045	1.067290	1.77137	1.18333	9.18991	14.15830	14.7240
21	1.31662	1.23801	9.61603	195.307	1.073700	1.77559	1.19286	9.22901	14.27040	14.6961
22	1.31593	1.23596	9.60707	194.283	1.074580	1.77176	1.19335	9.21489	14.12330	14.7114
25	1.31564	1.23732	9.61862	195.241	1.075000	1.77230	1.19657	9.22688	14.14260	14.6097
26	1.31335	1.23843	9.60347	195.532	1.077930	1.77421	1.19876	9.23566	14.16770	14.5664
27	1.31124	1.24454	9.58313	195.414	1.079970	1.77214	1.20320	9.28005	14.13910	14.4377
28	1.31132	1.24426	9.57753	196.030	1.074860	1.76937	1.20380	9.27695	14.08010	14.4567
29	1.31498	1.24125	.	196.510	1.071920	1.77785	1.19808	9.25609	13.96830	14.2561
Oct. 2	1.31076	1.24479	.	196.247	1.078290	.	1.19791	9.28428	14.09410	14.3049
3	1.30710	1.24854	.	195.881	1.083960	1.79216	1.20619	9.31211	14.26550	14.4603
4	1.30929	1.24730	.	195.399	1.079920	1.79936	1.20337	9.30345	14.36080	14.5063
5	1.31011	1.24465	.	194.945	1.079440	1.79918	1.19980	9.28229	14.40090	14.4874
6	1.31212	1.24218	.	195.007	1.074490	1.79537	1.19711	9.26355	14.42040	14.4573
10	1.31410	1.24183	9.58653	195.210	1.072120	1.78599	1.18959	9.25952	14.27660	14.4226
11	1.31488	1.23999	9.59665	195.391	1.069660	1.78864	1.18727	9.24625	14.25400	14.3075
12	1.31535	1.23868	9.60117	196.172	1.069780	.	1.18408	9.23591	14.26530	14.3334
13	1.30992	1.24469	9.57158	196.265	1.076530	.	1.18973	.	.	14.3437

Source: IMF, Washington. * See Explanatory notes, pp. 50-51. 1 ISO currency code: XDR.

VI. Global exchange rate arrangements and monetary policy framework *

As of end-April 2022

Exchange rate arrangement	Monetary policy framework						
	Exchange rate target				Monetary aggregate target	Inflation-targeting framework	Other ¹
	Exchange rate anchor						
	US dollar	Euro	Composite	Other			
No separate legal tender	Ecuador El Salvador Marshall Islands Micronesia, Federated States of Palau Panama Timor-Leste	Andorra Kosovo Montenegro San Marino		Kiribati Nauru Tuvalu			
Currency board	Djibouti Hong Kong ECCU ⁴ Antigua & Barbuda Dominica Grenada Saint Kitts and Nevis Saint Lucia Saint Vincent and the Grenadines	Bosnia and Herzegovina Bulgaria ²		Brunei Darussalam Macao ³			
Conventional peg	Aruba Bahamas Bahrain Barbados Belize Curaçao and Sint Maarten (southern part) Eritrea Iraq Jordan Oman Qatar Saudi Arabia Turkmenistan United Arab Emirates	Cabo Verde Comoros Denmark ² Sao Tome and Principe WAEMU ⁶ Benin Burkina Faso Côte d'Ivoire Guinea-Bissau Mali Niger Senegal Togo CAEMC ⁷ Cameroon Central African Republic Chad Congo Equatorial Guinea Gabon	Fiji Libya	Bhutan Eswatini Lesotho Namibia Nepal	Samoa ⁵		
Stabilised arrangement	Cambodia Guyana Iran, Islamic Republic of Lebanon Maldives Trinidad and Tobago	Croatia ² North Macedonia	Singapore		Bolivia, Plurinational State of ⁸ Nigeria ⁸ Papua New Guinea ⁸ Tajikistan ^{8,10} Tanzania, United Republic of ⁸	Guatemala ⁸ Serbia ⁹	Azerbaijan ⁸ Egypt ^{8,10} Kyrgyzstan ⁸ Malawi ⁸ Mongolia ¹⁰ Mozambique ^{8,10,11} Sudan ^{8,11}
Crawling peg	Honduras Nicaragua		Botswana				
Pegged exchange rate within horizontal bands			Morocco				

Source: Annual Report on Exchange Arrangements and Exchange Restrictions 2022, Table 4, IMF, Washington. * See Explanatory notes, pp. 51-52. ¹ Includes countries that have no explicitly stated nominal anchor, but rather monitor various indicators in conducting monetary policy. ² The member participates in ERM II. ³ Macao was added to

the report this year. ⁴ The members participate in the Eastern Caribbean Currency Union. ⁵ The country maintains a de facto exchange rate anchor to a composite. ⁶ The members participate in the West African Economic and Monetary Union. ⁷ The members participate in the Central African Economic and Monetary Community. ⁸ The

VI. Global exchange rate arrangements and monetary policy framework *

As of end-April 2022

Exchange rate arrangement	Monetary policy framework						
	Exchange rate target				Monetary aggregate target	Inflation-targeting framework	Other ¹
	Exchange rate anchor						
	US dollar	Euro	Composite	Other			
Crawl-like-arrangement			Viet Nam ⁸		Afghanistan ⁸ Algeria ^{8,12} Bangladesh ⁸ Burundi ⁸ China ⁵ Congo, Democratic Republic of the ⁸ Ethiopia ⁸ Gambia ⁸ Guinea ⁸ Rwanda ⁸	Dominican Republic ⁸ Ghana ⁸ Kenya ^{8,11} Romania ⁹ Sri Lanka ^{8,13} Uzbekistan ⁸	Argentina ⁸ Lao People's Democratic Republic ⁸ Mauritania ⁸ Mauritius ^{8,10,11} Solomon Islands ⁵ Switzerland ⁹ Tunisia ^{9,10}
Other managed arrangement			Kuwait Syrian Arab Republic		Liberia ¹¹ Myanmar Sierra Leone Zimbabwe ^{11,12}		Haiti South Sudan Tonga Vanuatu Venezuela, Bolivarian Republic of
Floating					Angola Belarus Madagascar Suriname Yemen	Albania Armenia Brazil ¹³ Colombia Costa Rica Czechia Georgia Hungary Iceland India ¹³ Indonesia ¹³ Israel Jamaica Kazakhstan Korea, Republic of Moldova, Republic of New Zealand Paraguay Peru Philippines Seychelles South Africa Thailand ¹³ Turkey Uganda Ukraine Uruguay	Malaysia Pakistan ¹⁰ Zambia
Free floating						Australia Canada Chile Japan Mexico Norway Poland ¹³ Russian Federation Sweden ¹³ United Kingdom	Somalia ¹⁴ United States Euro area Austria Belgium Cyprus Estonia Finland France Germany Greece Ireland Italy Latvia Lithuania Luxembourg Malta Netherlands Portugal Slovakia Slovenia Spain

country maintains a de facto exchange rate anchor to the US dollar. ⁹ The country maintains a de facto exchange rate anchor to the euro. ¹⁰ The central bank is in transition towards inflation targeting. ¹¹ The exchange rate arrangement was reclassified twice during this reporting period. ¹² The exchange rate arrangement or monetary

policy framework was reclassified retroactively, overriding a previously published classification. ¹³ The monetary policy framework is referred to as "flexible inflation-targeting". ¹⁴ Currently the Central Bank of Somalia does not have a monetary policy framework.

VII. ISO currency codes *

ISO code	Currency	Country 1 or territory	ISO code	Currency	Country 1 or territory	ISO code	Currency	Country 1 or territory
AED	United Arab Emirates dirham	United Arab Emirates	CUP	Cuban peso	Cuba	GMD	Dalasi	Gambia
AFN	Afghani	Afghanistan	CVE	Cabo Verde escudo	Cabo Verde	GNF	Guinean franc	Guinea
ALL	Albanian lek	Albania	CZK	Czech koruna	Czechia	GTQ	Quetzal	Guatemala
AMD	Armenian dram	Armenia				GYD	Guyana dollar	Guyana
ANG	Netherlands Antillean guilder	Curaçao Sint Maarten (southern part)	DJF	Djibouti franc	Djibouti			
AOA	Kwanza	Angola	DKK	Danish krone	Denmark Faroe Islands Greenland	HKD	Hong Kong dollar	Hong Kong
ARS	Argentine peso	Argentina	DOP	Dominican peso	Dominican Republic	HNL	Lempira	Honduras
AUD	Australian dollar	Australia Christmas Island Cocos Islands Kiribati Nauru Norfolk Island Tuvalu	DZD	Algerian dinar	Algeria	HTG	Gourde	Haiti
			EGP	Egyptian pound	Egypt	HUF	Hungarian forint	Hungary
AWG	Aruban florin	Aruba	ERN	Nakfa	Eritrea	IDR	Indonesian rupiah	Indonesia
AZN	Azerbaijan manat	Azerbaijan	ETB	Birr	Ethiopia	ILS	New shekel	Israel
			EUR	Euro	Austria Belgium Croatia Cyprus Estonia Finland France Germany Greece Ireland Italy Latvia Lithuania Luxembourg Malta Netherlands Portugal Slovakia Slovenia Spain	INR	Indian rupee	India Bhutan
BAM	Convertible marka	Bosnia and Herzegovina				IQD	Iraqi dinar	Iraq
BBD	Barbados dollar	Barbados				IRR	Iranian rial	Iran, Islamic Republic of
BDT	Taka	Bangladesh				ISK	Icelandic krona	Iceland
BGN	Bulgarian lev	Bulgaria				JMD	Jamaican dollar	Jamaica
BHD	Bahraini dinar	Bahrain				JOD	Jordanian dinar	Jordan
BIF	Burundi franc	Burundi				JPY	Japanese yen	Japan
BMD	Bermudian dollar	Bermuda						
BND	Brunei dollar	Brunei Darussalam				KES	Kenya shilling	Kenya
BOB	Boliviano	Bolivia, Plurinational State of				KGS	Kyrgyz som	Kyrgyzstan
BRL	Brazilian real	Brazil				KHR	Riel	Cambodia
BSD	Bahamian dollar	Bahamas				KMF	Comorian franc	Comoros
BTN	Ngultrum	Bhutan				KPW	North Korean won	Korea, Democratic People's Republic of
BWP	Pula	Botswana				KRW	South Korean won	Korea, Republic of
BYN	Belarusian rouble	Belarus				KWD	Kuwaiti dinar	Kuwait
BZD	Belize dollar	Belize				KYD	Cayman Islands dollar	Cayman Islands
			FJD	Fiji dollar	Fiji	KZT	Tenge	Kazakhstan
CAD	Canadian dollar	Canada	FKP	Falkland Islands pound	Falkland Islands (Islas Malvinas)	LAK	Kip	Lao People's Democratic Republic
CDF	Congo franc	Congo, Democratic Republic of the				LBP	Lebanese pound	Lebanon
CHF	Swiss franc	Switzerland Liechtenstein	GBP	Pound sterling	United Kingdom Guernsey Isle of Man Jersey	LKR	Sri Lanka rupee	Sri Lanka
CLP	Chilean peso	Chile	GEL	Lari	Georgia	LRD	Liberian dollar	Liberia
CNY	Chinese renminbi	China	GHS	Ghana cedi	Ghana	LSL	Loti	Lesotho
COP	Colombian peso	Colombia	GIP	Gibraltar pound	Gibraltar	LYD	Libyan dinar	Libya
CRC	Costa Rican colón	Costa Rica						

* Extracted and compiled from ISO communications. 1 See Explanatory notes on individual countries, pp. 53 ff.

Explanatory notes

Euro foreign exchange reference rates of the European Central Bank

On 1 January 1999, 11 Member States of the European Union initially adopted the euro as their single currency. On 1 January 2001, Greece joined the euro area, followed by Slovenia on 1 January 2007, Cyprus and Malta on 1 January 2008, Slovakia on 1 January 2009, Estonia on 1 January 2011, Latvia on 1 January 2014, Lithuania on 1 January 2015 and Croatia on 1 January 2023 (for details, see Table I. 1., p. 7).

Since the introduction of the euro, there has been no autonomous foreign exchange market for the currencies replaced by the euro; the euro alone is quoted against non-euro area currencies, such as the US dollar and the Japanese yen.

Since 4 January 1999, the ECB has published euro foreign exchange reference rates for selected currencies each working day. These rates are calculated on the basis of the daily concertation between central banks which takes place at 14:10 CET. Only one reference rate, i. e. the middle rate, is established by this procedure. For information on the framework for the euro foreign exchange reference rates, see the ECB's website: <https://www.ecb.europa.eu/stats/pdf/exchange/Frameworkfortheeuroforeignexchangereferencerates.en.pdf?c883afa875c74877fdf4634dcb85688c>.

Effective euro exchange rates

The indices of the nominal effective exchange rates of the euro are designed to measure, in aggregated form, the impact of changes in exchange rates on the price competitiveness of the euro area economy as a whole. They are calculated by the Deutsche Bundesbank on the basis of weighted averages of the bilateral euro exchange rates against the currencies of selected trading partners of the euro area, with Q1 1999 = 100. An increase in the index rate indicates an appreciation of the euro and thus, taken in isolation, a negative impact on the price competitiveness of the domestic economy. The weights are based on the trade in manufactured goods (Sections 5 to 8 of the Standard International Trade Classification (SITC)) and services (Extended Balance of Payments Services Classifica-

tion (EBOPS) – Total EBOPS services) and also reflect third-market effects.

The table entitled "Overall trade weights used in the calculation of the effective exchange rates (EER) of the euro" on page 49 shows trading partners' membership of the extended or the broad EER group as well as their percentage weights. To prevent breaks in the time series, the indices of two consecutive weighting periods are chain-linked beyond the end of the preceding period. See the ECB's website for information on the revised trade weights published from July 2020 (<https://www.ecb.europa.eu/stats/pdf/exchange/updatedtradeweights201708202007.pdf?1f184ad85cc2c5ccef05680706893cde>).

The real effective exchange rates of the euro additionally take account of the differences in price movements between the groups of countries under review. If the current price indices for determining the real effective exchange rate based on consumer price indices are not yet available, estimates are used for the calculation.

For further information on the calculation method, see the ECB's methodological notes relating to the daily nominal effective exchange rate of the euro and ECB Occasional Paper No 134 of June 2012, which can be downloaded from the ECB's website (www.ecb.europa.eu).

Indicators of the German economy's price competitiveness

The calculation of indicators of the German economy's price competitiveness is methodically consistent with the ECB's procedure for determining the effective exchange rates of the euro. For more detailed information on methodology and weighting scale, see the website of the Deutsche Bundesbank (<https://www.bundesbank.de/content/796162>).

The indicators are broken down into three groups in Table III. 3. (p. 17).

The group of 27 selected industrialised countries comprises the respective composition of euro area countries (see Table I. 1., p. 7) as well as Canada, Denmark, Japan,

Overall trade weights used in the calculation of the effective exchange rates (EER) of the euro^o

Figures in %

As of September 2023

Trading partner	Calculation period for weights ¹											
	Extended EER group of trading partners						Broad EER group of trading partners					
	1995 to 1997	1998 to 2000	2010 to 2012	2013 to 2015	2016 to 2018	2019 to 2021	1995 to 1997	1998 to 2000	2010 to 2012	2013 to 2015	2016 to 2018	2019 to 2021
	Period of use of weights ¹											
	Up to end of 1997	1998 to 2000 ²	2010 to 2012	2013 to 2015	2016 to 2018	From 2019	Up to end of 1997	1998 to 2000 ²	2010 to 2012	2013 to 2015	2016 to 2018	From 2019
Broad EER group							100	100	100	100	100	100
Extended EER group	100	100	100	100	100	100						
Australia	1.01	0.91	1.15	1.05	1.00	0.93	0.82	0.75	0.90	0.83	0.80	0.75
Bulgaria	0.27	0.31	0.59	0.63	0.66	0.67	0.22	0.26	0.46	0.49	0.53	0.54
Canada	1.86	1.94	1.85	1.81	1.73	1.70	1.52	1.60	1.45	1.42	1.37	1.37
China	4.16	4.88	16.78	17.52	17.38	19.64	3.39	4.02	13.12	13.79	13.83	15.79
Czechia	2.39	2.50	4.30	4.19	4.48	4.42	1.95	2.06	3.36	3.30	3.56	3.55
Denmark	3.17	2.84	2.49	2.39	2.31	2.33	2.59	2.34	1.94	1.88	1.84	1.87
Hong Kong	3.72	3.81	2.96	2.80	2.59	2.40	3.03	3.14	2.32	2.21	2.06	1.93
Hungary	1.64	2.16	2.59	2.66	2.77	2.79	1.33	1.78	2.02	2.09	2.21	2.24
Japan	10.07	9.09	5.87	4.79	4.77	4.55	8.21	7.49	4.59	3.77	3.80	3.66
Korea, Republic of	2.89	2.63	3.26	3.10	3.00	2.99	2.36	2.17	2.54	2.44	2.39	2.40
Norway	1.70	1.59	1.57	1.44	1.23	1.17	1.38	1.31	1.23	1.13	0.98	0.94
Poland	2.60	2.94	5.65	5.86	6.33	6.93	2.12	2.42	4.42	4.61	5.03	5.57
Romania	0.72	0.79	1.87	2.08	2.28	2.27	0.58	0.65	1.46	1.64	1.81	1.83
Singapore	2.42	2.16	2.30	2.13	2.92	3.30	1.97	1.78	1.80	1.68	2.32	2.65
Sweden	5.15	4.87	4.28	4.06	3.82	3.68	4.20	4.01	3.35	3.20	3.04	2.96
Switzerland	9.78	8.54	8.43	8.30	7.85	7.38	7.97	7.04	6.59	6.54	6.25	5.94
United Kingdom	22.99	22.29	15.42	15.63	14.95	12.98	18.74	18.37	12.05	12.31	11.90	10.43
United States	23.46	25.75	18.64	19.56	19.93	19.87	19.12	21.21	14.57	15.40	15.86	15.98
Additional countries in the broad EER group												
Algeria							0.37	0.32	0.39	0.39	0.30	0.22
Argentina							0.54	0.50	0.43	0.35	0.32	0.26
Brazil							1.29	1.25	1.57	1.34	1.11	0.98
Chile							0.33	0.30	0.39	0.32	0.28	0.26
China (Taiwan)							1.83	1.89	1.28	1.17	1.21	1.29
Colombia							0.21	0.18	0.21	0.21	0.18	0.16
Iceland							0.07	0.08	0.09	0.09	0.11	0.09
India							1.14	1.17	2.63	2.64	2.68	2.90
Indonesia							0.82	0.59	0.62	0.60	0.59	0.53
Israel							1.05	1.04	0.78	0.83	0.87	0.98
Malaysia							1.15	1.01	0.95	0.91	0.85	0.89
Mexico							0.76	1.08	1.11	1.19	1.30	1.26
Morocco							0.54	0.60	0.63	0.65	0.71	0.66
New Zealand							0.17	0.13	0.14	0.15	0.15	0.14
Peru							0.14	0.10	0.16	0.16	0.16	0.15
Philippines							0.36	0.45	0.32	0.39	0.40	0.37
Russian Federation							2.32	1.77	3.34	3.08	2.53	2.30
Saudi Arabia							0.47	0.43	0.69	0.81	0.75	0.66
South Africa							0.90	0.86	0.86	0.76	0.71	0.65
Thailand							1.14	0.89	0.99	0.99	1.02	0.88
Turkey							2.01	2.10	2.66	2.73	2.60	2.48
Ukraine							0.42	0.36	0.59	0.43	0.38	0.44
United Arab Emirates							0.47	0.50	1.00	1.08	1.21	1.05

^o Weights based on trade in goods and services. Figures have been rounded. In addition, the ECB publishes weighting schemes and indicators for the narrow EER group of trading partners with 12 countries. ¹ Selected calculation periods; for a comprehensive overview, see <https://www.bundesbank.de/en/statistics/exchange-rates/effective-exchange-rates/-/methodology-and-quality-796162>. ² Including the reference period of the indices.

Norway, Sweden, Switzerland, the United Kingdom and the United States.

The group of 37 countries comprises the euro area countries and the countries of the extended EER group of trading partners; the group of 60 countries consists of the euro area countries as well as the countries of the broad EER group.

Overview of world currencies

The end-of-month exchange rates listed in Table IV. 1. (pp. 18-40) are the latest rates known to us at the end of a given month; in general, they have been taken from reliable sources (central bank or a commercial bank in the country in question). However, we do not know whether transactions were actually executed at those rates in all cases. If no exchange rates for euro or US dollar are available from a country, we have calculated comparative values at the exchange rates or parities available and identified them with a "V" in the column "type of rate".

The previous-year average specified in this table was basically calculated from all of the rates or comparable figures available to us.

In addition to the generally accepted currency name, the three-character alphabetical ISO currency code is specified (see Table VII., pp. 46-47). This was developed by the International Organization for Standardization as ISO Standard 4217. This currency code is designed to enable uniformly abbreviated designations for currency-related values to be used in international financial transactions. This applies, *inter alia*, to all external payments under the SWIFT system. The ISO code should not, however, be confused with the official national currency abbreviations.

Value of the special drawing right

The value of a SDR (ISO code: XDR) is currently defined as the sum of the values of fixed amounts of five currencies.

The composition of the currency basket as well as the weights and amounts of the currency units in the basket are generally reviewed every five years. As a result of the latest review, conducted in 2022, since 1 August 2022, the SDR basket has contained the fixed currency amounts shown in column (a). These were fixed on 29 July 2022 on the basis of the average exchange rates in the London spot exchange market over the preceding three-month period

(2 May to 29 July, 2022) and the initial new percentage weights (column b) such that, on 29 July 2022, the new SDR value corresponded with the value calculated on the basis of the old basket (see <https://www.imf.org/en/Publications/Policy-Papers/Issues/2022/07/29/Review-of-the-Method-of-Valuation-of-the-SDR-Amendment-to-Rule-O-1-521564>).

	(a)	(b)
US dollar	0.57813	43.38
Euro	0.37379	29.31
Chinese yuan (renminbi)	1.0993	12.28
Japanese yen	13.452	7.59
Pound sterling	0.080870	7.44

The above-mentioned currency amounts are converted into US dollar amounts on the basis of the market rates on every business day. In principle, the middle rates between the buying and selling rates fixed at noon in the London spot exchange market are used as market rates. The sum of the US dollar equivalents of the currency amounts yields the value of the SDR expressed in terms of the US dollar. Values of the SDR in terms of all other currencies are ascertained, using the value for the SDR in terms of the US dollar, from the representative market exchange rates of these currencies vis-à-vis the US dollar; for the euro, it is the foreign exchange reference rate of the European Central Bank.

The current criteria for inclusion were adopted by the Executive Board in 2000. They establish that the SDR basket comprises the currencies that are issued by member countries or monetary unions whose exports had the largest value over a five-year period, and have been determined by the IMF to be "freely usable". In the case of a monetary union, exports of goods and services do not cover cross-border trade between the members of the monetary union.

The export criterion, which acts as a "gateway", aims to ensure that currencies that qualify for the basket are those issued by member countries or monetary unions that play a central role in the global economy. This criterion has been part of the SDR methodology since the 1970s.

The requirement for currencies in the SDR basket to be also freely usable is the second criterion, and it was incorporated in 2000 to reflect formally the importance of financial transactions for the purposes of valuing the SDR basket.

A "freely usable" currency is defined in the IMF's Articles of Agreement to mean a currency that the IMF determines is, in fact, widely used to make payments for international

transactions, and is widely traded in the major exchange markets. The concept of a freely usable currency concerns the actual international use and trading of a currency, and is different from whether a currency is either freely floating or fully convertible. A currency can be widely used and widely traded even if it is subject to some capital account restrictions. On the other hand, a currency that is fully convertible is not necessarily widely used and widely traded.

The formula adopted by the IMF for determining currency weights for the SDR basket assigns equal shares to the currency issuer's exports and a composite financial indicator. The financial indicator comprises, in equal shares, official reserves denominated in the member country's (or monetary union's) currency that are held by other monetary authorities that are not issuers of the relevant currency, foreign exchange turnover in the relevant currency, and the sum of all outstanding international bank liabilities and international debt securities denominated in the currency.

The IMF uses the SDR as unit of account for its transactions and for all conversions into national currencies. In addition, the SDR is used by public and private bodies in Germany and abroad, inter alia as the "successor" to those units of account which had hitherto been defined in terms of gold (e. g. gold francs).

Global exchange rate arrangements and monetary policy framework

The overview of the exchange rate arrangements and monetary policy framework as at the end of April 2022 (see Table VI., pp. 44-45) is based on the IMF's "Annual Report on Exchange Arrangements and Exchange Restrictions 2022", which can be accessed online (<https://www.elibrary-areaer.imf.org>).

The IMF's classification system is generally based on the actual, de facto exchange rate regimes identified and operating in member countries. These may differ from the official, de jure exchange rate arrangements in these countries.

Exchange rate arrangements are primarily classified on the basis of the degree to which the exchange rate is determined by the market rather than by official action, with market-determined exchange rates being on the whole more flexible. The IMF's system distinguishes between four major categories. The category "hard pegs" (fixed

exchange rate anchors) is subdivided into exchange arrangements with no separate legal tender and currency board arrangements (institutionalised, unilateral exchange rate peg). The category "soft pegs" (less stringent exchange rate anchors) comprises conventional fixed peg arrangements (exchange rate guarantee but no irrevocable parity), stabilised arrangements (exchange rate within a narrow band without any political obligation), crawling pegs (moving central rate without a band), crawl-like arrangements (moving central rate with an annual minimum rate of change) and pegged exchange rates within horizontal bands. The category "floating regimes" (market-determined rates) distinguishes between free-floating rates (intervention in exceptional cases only) and floating rates (more frequent modes of intervention). All other exchange rate arrangements are grouped under the category "residual" (other managed arrangements). The classification system presents members' exchange rate arrangements against alternative monetary policy frameworks in order to highlight the role of the exchange rate in broad economic policy and to illustrate that different exchange rate arrangements can be consistent with similar monetary frameworks.

The monetary policy frameworks listed are as follows.

Exchange rate anchor

The monetary authority buys or sells foreign exchange to maintain the exchange rate at its predetermined level or within a range. The exchange rate thus serves as the nominal anchor or intermediate target of monetary policy. These frameworks are associated with exchange rate arrangements with no separate legal tender, currency board arrangements, pegs (or stabilised arrangements) with or without bands, crawling pegs (or crawl-like arrangements) and other managed arrangements.

Monetary aggregate target

The monetary authority uses its instruments to achieve a target growth rate for a monetary aggregate, such as reserve money, M1 or M2, and the targeted aggregate becomes the nominal anchor or intermediate target of monetary policy.

Inflation-targeting framework

This involves the public announcement of numerical targets for inflation, with an institutional commitment by the monetary authority to achieve these targets, typically over a medium-term horizon. Additional key features normally include increased communication with the public and the markets about the plans and objectives of monetary policymakers and increased accountability of the central bank for achieving its inflation objectives. Monetary policy

decisions are often guided by the deviation of forecasts of future inflation from the announced inflation target, with the inflation forecast acting (implicitly or explicitly) as the intermediate target of monetary policy.

Other

The country has no explicitly stated nominal anchor, but rather monitors various indicators in conducting monetary policy. This category is also used when no relevant information on the country is available.

Explanatory notes on individual countries

Argentina

Capital controls were introduced by decree on 1 September 2019 in response to the escalating financial and sovereign debt crisis.

Since 23 December 2019 (the date on which Law 27541 entered into force), Argentina has been levying a tax (Impuesto Para una Argentina Inclusiva y Solidaria = PAÍS) of 30% on transactions such as the following:

- purchases of foreign currency banknotes and foreign exchange, including travellers' cheques, by Argentine residents;
- the exchange of foreign currency intended for the purchase of goods or services or for the purchase of services abroad;
- foreign transactions with Argentine bank cards.

The Argentine Tax Authority (Administración Federal de Ingresos Públicos = AFIP) has been levying an additional tax of 35% on the aforementioned transactions since 16 September 2020. In July and October 2022, the AFIP increased this additional tax for certain transactions to which it is applied.

In addition, since 4 November 2022, there has been a separate settlement exchange rate for non-residents making payments on selected foreign credit, debit and prepaid cards for tourism purposes; this rate stood at 785 Argentine pesos to the US dollar at the beginning of October 2023.

With effect from 14 August 2023, the Argentine peso was devalued. We recorded the following exchange rates (buying/selling):

11 August 2023: USD 1 = ARS 286.9500 / 287.3500
EUR 1 = ARS 313.7511 / 314.9069

14 August 2023: USD 1 = ARS 348.9500 / 349.9500
EUR 1 = ARS 380.5649 / 382.5303.

Calculated using these rates, the Argentine peso depreciated by 17.8% against the US dollar and by 17.6% against the euro (each calculated on the basis of the middle rates).

Bangladesh

Units of account for larger amounts: 1 lakh (in digits: 1,00,000) = 100,000 taka; 1 crore (in digits: 1,00,00,000) = 100 lakh = 10,000,000 taka.

Benin

Benin, Burkina Faso, Côte d'Ivoire, Guinea-Bissau, Mali, Niger, Senegal and Togo all belong to the West African Economic and Monetary Union (Union Économique et Monétaire Ouest Africaine = UEMOA). The responsible monetary authority is the Banque Centrale des Etats de l'Afrique de l'Ouest, whose CFA franc (Franc de la Communauté Financière Africaine = F.CFA) is legal tender only in the aforementioned countries.

Bhutan

The Indian rupee is likewise legal tender alongside the Bhutanese ngultrum (convertible at par).

Brunei Darussalam

Under an agreement between Brunei Darussalam and Singapore, the Singapore dollar (convertible at par) is also accepted as customary tender.

Burkina Faso

See Explanatory notes on Benin.

Cameroon

Cameroon, the Central African Republic, Chad, Congo, Equatorial Guinea and Gabon all belong to the Central African Economic and Monetary Community (Communauté Économique et Monétaire de l'Afrique Centrale = CEMAC). The responsible monetary authority is the Banque des Etats de l'Afrique Centrale, whose CFA franc (Franc de la Coopération Financière en Afrique Centrale = F.CFA) is legal tender only in the aforementioned countries.

Central African Republic

See Explanatory notes on Cameroon.

Chad

See Explanatory notes on Cameroon.

Congo

See Explanatory notes on Cameroon.

Cook Islands

The New Zealand dollar is also legal tender alongside the Cook Islands dollar (convertible at par).

Côte d'Ivoire

See Explanatory notes on Benin.

Cuba

We have the following information on file about how exchange rates have been applied since 4 August 2022:

Rate for transactions by general government
For all government sector transactions.

Rate for non-government transactions
For all transactions by households and enterprises as well as by the government foreign exchange bureaus (Casas de Cambio = CADECA).

In addition, it is understood that there is a black market where, according to press reports, the exchange rate to the US dollar stood at 250 Cuban pesos at the beginning of October 2023.

The euro is also an accepted form of payment in some tourist locations.

El Salvador

The US dollar is likewise legal tender alongside the El Salvador colón.

Equatorial Guinea

See Explanatory notes on Cameroon.

Eswatini

The South African rand is likewise legal tender alongside the lilangeni (convertible at par).

Gabon

See Explanatory notes on Cameroon.

Guinea-Bissau

See Explanatory notes on Benin.

India

Units of account for larger amounts: 1 lakh (in digits: 1,00,000) = 100,000 rupees; 1 crore (in digits: 1,00,00,000) = 100 lakh = 10,000,000 rupees.

Iran, Islamic Republic of

As we have only incomplete information on the extensive changes and regulations in the multiple exchange rate system, the information provided below on applying exchange rates – valid since 6 August 2018 – is intended merely as a guideline.

Central bank rate
For imports of essential goods (e.g. basic foodstuffs and pharmaceuticals).

NIMA rate (see <https://www.sanarate.ir/Default.aspx>)
For other, non-specified goods imports and services. Access to the electronic platform NIMA is possible only for certain importers as well as exchange bureaus.

Bureau de change rate
Used in addition to the regulated central bank and NIMA exchange rates, including for travelling abroad, tuition fees at foreign universities, medical treatment and legal fees abroad.

The term "toman" (an old Persian currency) is also used to denote 10 Iranian rials.

Kenya

The term "Kenya pound" is a unit of account equivalent to 20 Kenya shillings.

Korea, Democratic People's Republic of

We have no exchange rates for the won as of July 2020.

Lebanon

The ongoing liquidity and economic crisis, coupled with a significant depreciation of the Lebanese pound and the formation of a parallel market, has prompted Lebanon's central bank to take various steps since mid-2020 to keep the resulting foreign exchange shortage in check.

Multiple exchange rates have emerged in Lebanon: alongside the official exchange rate to the US dollar, there is a bank rate and also the central bank's own electronic Sayrafa platform, through which commercial banks and foreign exchange dealers operating in Lebanon are expected to settle their business in foreign currency.

We have the following information on file about how exchange rates have been applied since the end of August 2021:

Official exchange rate

For specific imports (e.g. of wheat, medication, medical supplies and selected commodities) and for servicing limited retail consumer and housing loans denominated in US dollar

Bank rate

For limited cash withdrawals from foreign currency accounts held with banks in Lebanon (we have no exchange rate data on file)

Sayrafa market rate

For imports of petrol, diesel and gas, and for regulated buying and selling of foreign currencies.

Press reports indicate that the exchange rate on the black market, which continues to exist, was 89,000 Lebanese pounds to the US dollar at the beginning of October 2023.

Lesotho

The South African rand is likewise legal tender alongside the loti (convertible at par).

Liberia

The US dollar is likewise legal tender alongside the Liberian dollar.

Macao

The Hong Kong dollar, to which the pataca is pegged at a rate of HKD 100 = MOP 103, is in circulation as a common currency alongside the pataca.

Mali

See Explanatory notes on Benin.

Namibia

The South African rand is likewise legal tender alongside the Namibia dollar (convertible at par).

New Caledonia

CFP was originally the abbreviation for "Colonies Françaises du Pacifique" and is still used as a currency symbol (in connection with the franc).

Niger

See Explanatory notes on Benin.

Nigeria

It is understood that there are different bureau de change rates alongside the official, published exchange rate.

Panama

The US dollar is legal tender alongside the balboa, which is in circulation exclusively in coin form.

Senegal

See Explanatory notes on Benin.

Sierra Leone

With effect from 1 July 2022, a currency changeover took place at the ratio of 1,000 (old) leone (SLL) to 1 (new) leone (SLE). The SLL will also remain legal tender at this ratio until the end of December 2023.

Singapore

Under an agreement between Singapore and Brunei Darussalam, the Brunei dollar (convertible at par) is also accepted as customary tender.

Somalia

We have no exchange rates for the Somali shilling.

Syrian Arab Republic

It is understood that there is a considerably different, black market rate alongside the official, published exchange rate.

Togo

See Explanatory notes on Benin.

Turkmenistan

It is understood that there is a considerably different, black market rate alongside the official, published exchange rate.

Ukraine

On 3 October 2023, the fixed peg to the US dollar was abandoned and a regime of managed flexibility of exchange rates was introduced.

United Arab Emirates

The United Arab Emirates include Abu Dhabi, Ajman, Dubai, Fujairah, Ras al Khaimah, Sharjah and Umm al Qaiwain.

United Kingdom

In Scotland and Northern Ireland, a small volume of banknotes issued by commercial banks in these territories is in circulation alongside notes issued by the Bank of England.

Venezuela, Bolivarian Republic of

It is understood that there is a considerably different, black market rate alongside the official, published exchange rate.

Yemen

In addition to central bank rates, there are also commercial bank rates, which vary widely from region to region.

Zimbabwe

A weekly auction has been held via the Foreign Exchange Auction Trading System since 23 June 2020; see <https://www.rbz.co.zw/index.php/financial-markets/foreign-exchange-auction>.

It is also understood that there is a significantly different black market rate. According to press reports, this rate was around 7,000 Zimbabwe dollar to the US dollar at the beginning of October 2023.