



Exchange rate statistics

January 2023

Statistical Series

Deutsche Bundesbank
Wilhelm-Epstein-Straße 14
60431 Frankfurt am Main
Germany

Postfach 10 06 02
60006 Frankfurt am Main
Germany

Tel.: +49 (0)69 9566 33512
Email: www.bundesbank.de/contact

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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	Data unknown, not to be published or not meaningful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
Croatia	Upper rate	–	–	–	–	–	–	–	8.66468
Croatian kuna	Central rate	–	–	–	–	–	–	–	³ 7.53450
HRK	Lower rate	–	–	–	–	–	–	–	6.40433
Greece	Upper rate	406.075	391.863	–	–	–	–	–	–
Greek drachma	Central rate	¹ 353.109	⁴ 340.750	–	–	–	–	–	–
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	15.6466	⁵ 15.6466
EEK	Lower rate	–	–	13.2996	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	3.45280	⁶ 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	239.640	⁷ 239.640	–	–
SIT	Lower rate	–	–	203.694	203.694	203.694	203.694	–	–
Cyprus	Upper rate	–	–	–	0.673065	0.673065	0.673065	–	–
Cyprus pound	Central rate	–	–	–	0.585274	0.585274	⁸ 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	⁹ 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	⁸ 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	¹⁰ 30.1260	–
SKK	Lower rate	–	–	–	–	32.6868	30.1260	25.6071	–

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 2022; accession to the euro area on 1 January 2023. ⁴ Until 31 December 2000; accession to

the euro area on 1 January 2001. ⁵ Until 31 December 2010; accession to the euro area on 1 January 2011. ⁶ Until 31 December 2014; accession to the euro area on 1 January 2015. ⁷ Until 31 December 2006; accession to the euro area on 1 January 2007. ⁸ Until 31 December 2007; accession to the euro area on 1 January 2008. ⁹ Until 31 December 2013; accession to the euro area on 1 January 2014. ¹⁰ Until 31 December 2008; accession to the euro area on 1 January 2009.

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 Bulgarian lev BGN	Croatia ¹ Kuna HRK	Czechia Czech koruna CZK	Denmark Danish krone DKK	Hungary Hungarian forint HUF	Poland Polish zloty PLN	Romania Romanian leu RON	Sweden Swedish krona SEK
2021 Dec.		1.9558	7.5156	24.858	7.4364	369.19	4.5969	4.9490	10.2503
2022 Jan.		1.9558	7.5293	24.372	7.4419	357.19	4.5892	4.9475	10.4890
Feb.		1.9558	7.5655	24.997	7.4404	369.72	4.6835	4.9484	10.6055
Mar.		1.9558	7.5740	24.375	7.4379	369.77	4.6531	4.9463	10.3370
Apr.		1.9558	7.5667	24.605	7.4415	378.71	4.6780	4.9479	10.2958
May		1.9558	7.5410	24.714	7.4394	396.20	4.5805	4.9408	10.5053
June		1.9558	7.5307	24.739	7.4392	397.04	4.6904	4.9464	10.7300
July		1.9558	7.5180	24.610	7.4438	404.80	4.7375	4.9343	10.3875
Aug.		1.9558	7.5148	24.550	7.4371	402.80	4.7283	4.8595	10.6788
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
2022 Dec.	21	1.9558	7.5419	24.218	7.4380	402.93	4.6665	4.8937	11.0623
	22	1.9558	7.5380	24.215	7.4367	402.13	4.6443	4.8993	11.0500
	23	1.9558	7.5370	24.247	7.4364	400.68	4.6423	4.9056	11.1045
	27	1.9558	7.5375	24.260	7.4366	401.65	4.6683	4.9270	11.1285
	28	1.9558	7.5365	24.252	7.4365	403.30	4.7008	4.9460	11.1038
	29	1.9558	7.5365	24.191	7.4365	399.60	4.6855	4.9493	11.1580
	30	1.9558	7.5365	24.116	7.4365	400.87	4.6808	4.9495	11.1218
2023 Jan.	2	1.9558	–	24.176	7.4374	401.03	4.6813	4.9400	11.1663
	3	1.9558	–	24.124	7.4370	403.33	4.6831	4.9310	11.1430
	4	1.9558	–	24.028	7.4374	395.85	4.6685	4.9264	11.1653
	5	1.9558	–	24.028	7.4373	396.88	4.6700	4.9235	11.1848
	6	1.9558	–	24.054	7.4370	396.96	4.6950	4.9296	11.2580
	9	1.9558	–	23.990	7.4374	397.25	4.6963	4.9253	11.1960
	10	1.9558	–	23.984	7.4375	399.00	4.6950	4.9338	11.1963
	11	1.9558	–	24.027	7.4375	399.10	4.6819	4.9335	11.2783
	12	1.9558	–	24.036	7.4385	399.60	4.6920	4.9440	11.2730
	13	1.9558	–	24.011	7.4387	396.96	4.6888	4.9423	11.2528
	16	1.9558	–	23.997	7.4392	398.98	4.6935	4.9313	11.2725

Period		Other European and non-European countries							
		Australia Australian dollar AUD	Brazil Brazilian real BRL	Canada Canadian dollar CAD	China Yuan (renminbi) CNY	Hong Kong Hong Kong dollar HKD	Iceland Icelandic krona ISK	India Indian rupee INR	Indonesia Indonesian rupiah IDR
2021 Dec.		1.5615	6.3101	1.4393	7.1947	8.8333	147.60	84.2292	16,100.42
2022 Jan.		1.5820	6.0030	1.4233	7.0963	8.6994	143.20	83.3655	16,036.76
Feb.		1.5508	5.7828	1.4264	7.0670	8.7514	141.80	84.5540	16,100.72
Mar.		1.4829	5.3009	1.3896	7.0403	8.6918	142.00	84.1340	15,947.00
Apr.		1.4699	5.1608	1.3426	6.9441	8.2703	137.80	80.6380	15,301.52
May		1.4933	5.0965	1.3573	7.1402	8.4063	136.30	83.2310	15,580.15
June		1.5099	5.4229	1.3425	6.9624	8.1493	138.90	82.1130	15,552.00
July		1.4646	5.2739	1.3100	6.8705	8.0054	138.30	80.8820	15,155.56
Aug.		1.4591	5.1482	1.3111	6.8947	7.8488	141.70	79.5465	14,849.93
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
2022 Dec.	21	1.5859	5.4913	1.4475	7.4219	8.2902	152.10	88.1090	16,573.77
	22	1.5804	5.5386	1.4484	7.4229	8.2883	153.30	88.0365	16,525.91
	23	1.5857	5.4834	1.4433	7.4198	8.2878	152.30	87.9580	16,569.18
	27	1.5770	5.6035	1.4384	7.3994	8.2874	152.30	88.0808	16,620.58
	28	1.5660	5.6109	1.4361	7.4224	8.2931	151.90	88.0943	16,765.93
	29	1.5859	5.5351	1.4475	7.4151	8.2994	152.50	88.2295	16,680.38
	30	1.5693	5.6386	1.4440	7.3582	8.3163	151.50	88.1710	16,519.82
2023 Jan.	2	1.5699	5.7048	1.4506	7.3698	8.3389	151.70	88.4260	16,631.78
	3	1.5708	5.6656	1.4414	7.2863	8.2392	151.70	87.4095	16,471.95
	4	1.5452	5.7758	1.4363	7.2985	8.2864	151.70	87.7910	16,504.76
	5	1.5515	5.7060	1.4316	7.2863	8.2788	152.30	87.4755	16,543.07
	6	1.5590	5.6034	1.4331	7.2045	8.2006	152.90	86.9103	16,468.30
	9	1.5446	5.6475	1.4299	7.2546	8.3508	153.50	88.0780	16,661.92
	10	1.5616	5.6471	1.4382	7.2732	8.3740	154.70	87.7030	16,675.07
	11	1.5588	5.5840	1.4429	7.2807	8.3974	154.30	87.8120	16,612.34
	12	1.5570	5.5556	1.4439	7.2700	8.4121	154.30	87.7830	16,456.12
	13	1.5586	5.5512	1.4494	7.2729	8.4471	154.30	88.0960	16,412.00
	16	1.5537	5.5240	1.4486	7.2791	8.4449	154.50	88.2795	16,335.03

* 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
2021 Dec.	3.5159	130.38	1,346.38	4.7184	23.1438	1.6579	9.9888	57.763
2022 Jan.	3.5640	128.79	1,349.08	4.6693	23.1856	1.6983	10.0085	56.985
Feb.	3.6300	129.31	1,347.62	4.7019	22.9011	1.6628	9.9465	57.432
Mar.	3.5243	135.17	1,347.37	4.6677	22.0903	1.6014	9.7110	57.514
Apr.	3.4993	137.01	1,326.71	4.5886	21.4181	1.6119	9.7525	55.200
May	3.5746	137.36	1,329.32	4.6907	20.9870	1.6459	10.0983	56.323
June	3.6392	141.54	1,351.60	4.5781	20.9641	1.6705	10.3485	57.150
July	3.4714	136.42	1,329.40	4.5386	20.6745	1.6283	9.8773	56.375
Aug.	3.3399	138.72	1,342.79	4.4755	20.2044	1.6322	9.9388	56.153
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
2022 Dec. 21	3.6989	140.29	1,367.63	4.7197	20.9919	1.6850	10.4309	58.556
22	3.6942	140.42	1,361.75	4.7051	20.8485	1.6918	10.4123	58.705
23	3.7040	140.86	1,359.50	4.7002	20.7115	1.6887	10.4448	58.623
27	3.7278	141.68	1,349.85	4.6990	20.5515	1.6916	10.4895	59.356
28	3.7526	142.21	1,348.59	4.7055	20.6856	1.6772	10.4495	59.613
29	3.7575	142.24	1,350.18	4.7106	20.6510	1.6887	10.5500	59.367
30	3.7554	140.66	1,344.09	4.6984	20.8560	1.6798	10.5138	59.320
2023 Jan. 2	3.7537	139.62	1,357.80	4.7059	20.8318	1.6886	10.5135	59.634
3	3.7216	137.93	1,346.51	4.6439	20.5283	1.6932	10.5280	59.020
4	3.7397	138.74	1,348.95	4.6641	20.4494	1.6775	10.7380	59.330
5	3.7400	140.95	1,345.90	4.6517	20.5412	1.6832	10.7248	59.185
6	3.7361	141.30	1,337.18	4.6237	20.2645	1.6889	10.8070	58.374
9	3.7347	141.35	1,330.37	4.6800	20.4825	1.6741	10.6108	58.946
10	3.7244	141.92	1,338.38	4.6889	20.5299	1.6879	10.6785	58.751
11	3.7104	142.61	1,341.01	4.6975	20.4957	1.6912	10.7380	59.013
12	3.6893	140.61	1,340.17	4.6955	20.3745	1.6937	10.7228	59.292
13	3.7032	139.02	1,343.41	4.6890	20.4391	1.7014	10.6945	59.440
16	3.6971	138.92	1,340.22	4.6665	20.3580	1.6945	10.6945	58.936

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
2021 Dec.	85.3004	1.5279	18.0625	1.0331	37.653	15.2335	0.84028	1.1326
2022 Jan.	86.7251	1.5110	17.3734	1.0404	37.144	14.9310	0.83153	1.1156
Feb.	115.4842	1.5201	17.2863	1.0336	36.593	15.4532	0.83550	1.1199
Mar.	–	1.5028	16.1727	1.0267	36.911	16.2823	0.84595	1.1101
Apr.	–	1.4545	16.6473	1.0229	36.026	15.6385	0.83908	1.0540
May	–	1.4687	16.7450	1.0281	36.751	17.5817	0.85138	1.0713
June	–	1.4483	17.0143	0.9960	36.754	17.3220	0.85820	1.0387
July	–	1.4088	16.8627	0.9744	36.978	18.2472	0.83990	1.0198
Aug.	–	1.3969	17.0667	0.9796	36.450	18.1849	0.86035	1.0000
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
2022 Dec. 21	–	1.4366	18.3529	0.9836	36.907	19.8541	0.87651	1.0636
22	–	1.4356	18.2238	0.9852	36.849	19.8553	0.88243	1.0633
23	–	1.4337	18.1048	0.9867	36.842	19.8430	0.88030	1.0622
27	–	1.4300	18.3181	0.9885	36.775	19.8799	0.88333	1.0624
28	–	1.4323	18.2890	0.9863	36.953	19.9144	0.88058	1.0640
29	–	1.4360	18.1967	0.9840	36.877	19.9340	0.88549	1.0649
30	–	1.4300	18.0986	0.9847	36.835	19.9649	0.88693	1.0666
2023 Jan. 2	–	1.4324	18.1719	0.9873	36.915	20.0039	0.88630	1.0683
3	–	1.4188	18.0190	0.9879	36.254	19.7566	0.88048	1.0545
4	–	1.4212	17.8349	0.9843	36.047	19.8670	0.88076	1.0599
5	–	1.4213	18.1250	0.9839	35.948	19.8982	0.88303	1.0601
6	–	1.4156	18.2092	0.9864	35.737	19.7065	0.88475	1.0500
9	–	1.4244	18.2059	0.9865	35.789	20.0824	0.88048	1.0696
10	–	1.4290	18.3054	0.9908	36.024	20.1356	0.88330	1.0723
11	–	1.4316	18.2827	0.9967	35.895	20.1793	0.88673	1.0747
12	–	1.4309	18.1417	1.0056	35.849	20.2312	0.88690	1.0772
13	–	1.4311	18.2482	1.0051	35.751	20.3196	0.88800	1.0814
16	–	1.4288	18.4450	1.0026	35.696	20.3175	0.88758	1.0812

* 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									
2020 Nov.	1.9558	7.5623	26.466	7.4459	359.84	4.4949	4.8704	10.2311									
Dec.	1.9558	7.5417	26.311	7.4412	359.02	4.4786	4.8703	10.1736									
2021 Jan.	1.9558	7.5653	26.141	7.4387	359.19	4.5333	4.8732	10.0952									
Feb.	1.9558	7.5729	25.876	7.4367	358.15	4.4968	4.8750	10.0887									
Mar.	1.9558	7.5783	26.178	7.4363	365.61	4.5991	4.8884	10.1692									
Apr.	1.9558	7.5679	25.924	7.4367	360.58	4.5615	4.9231	10.1620									
May	1.9558	7.5226	25.558	7.4362	353.65	4.5281	4.9250	10.1471									
June	1.9558	7.4980	25.454	7.4364	349.94	4.5005	4.9238	10.1172									
July	1.9558	7.5027	25.636	7.4373	357.26	4.5616	4.9255	10.1979									
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									

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									
2020 Nov.	1.6266	6.4324	1.5472	7.8152	9.1775	161.90	87.8553	16,824.32									
Dec.	1.6166	6.2658	1.5595	7.9602	9.4341	155.13	89.6081	17,226.83									
2021 Jan.	1.5764	6.5102	1.5494	7.8730	9.4362	156.48	88.9936	17,111.98									
Feb.	1.5605	6.5434	1.5354	7.8136	9.3794	155.26	88.0756	17,002.56									
Mar.	1.5444	6.7247	1.4970	7.7465	9.2400	151.51	86.6550	17,135.25									
Apr.	1.5544	6.6565	1.4975	7.8051	9.3064	150.75	89.4210	17,414.37									
May	1.5653	6.4462	1.4732	7.8109	9.4317	149.66	88.9171	17,393.13									
June	1.5761	6.0693	1.4713	7.7391	9.3507	146.84	88.6298	17,295.86									
July	1.5926	6.0930	1.4806	7.6536	9.1862	147.10	88.1134	17,148.30									
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									

* 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
2020 Nov.	3.9773	123.61	1,319.66	4.8673	24.1554	1.7237	10.7453	57.127
Dec.	3.9513	126.28	1,332.54	4.9363	24.2914	1.7161	10.6008	58.527
2021 Jan.	3.9249	126.31	1,338.64	4.9154	24.2483	1.6924	10.3661	58.498
Feb.	3.9581	127.49	1,345.06	4.8944	24.5557	1.6702	10.2791	58.401
Mar.	3.9402	129.38	1,345.58	4.8907	24.7451	1.6686	10.1469	57.783
Apr.	3.9205	130.49	1,337.96	4.9358	24.0005	1.6788	10.0376	58.067
May	3.9623	132.57	1,364.47	5.0142	24.2682	1.6817	10.0931	58.222
June	3.9179	132.63	1,352.47	4.9808	24.1066	1.6944	10.1444	58.040
July	3.8668	130.35	1,354.46	4.9680	23.6101	1.6933	10.3767	59.264
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

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
2020 Nov.	91.0097	1.5944	18.4019	1.0785	36.041	9.4522	0.89605	1.1838
Dec.	90.2398	1.6218	18.1286	1.0814	36.610	9.3817	0.90624	1.2170
2021 Jan.	90.5697	1.6140	18.4295	1.0794	36.528	9.0059	0.89267	1.2171
Feb.	89.9554	1.6060	17.8629	1.0858	36.307	8.5785	0.87268	1.2098
Mar.	88.6326	1.5975	17.8284	1.1065	36.632	9.1301	0.85873	1.1899
Apr.	91.1446	1.5975	17.2486	1.1031	37.551	9.7936	0.86527	1.1979
May	89.8737	1.6153	17.0766	1.0968	37.992	10.1852	0.86258	1.2146
June	87.4561	1.6062	16.7540	1.0940	37.873	10.3823	0.85872	1.2047
July	87.3970	1.6019	17.1648	1.0856	38.586	10.1587	0.85613	1.1822
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

* 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
2019	4.7830	10.4468	1.5995	4.5157	1.4598	7.8205	8.7473
2020	4.8683	10.0343	1.5896	6.3735	1.5633	8.0225	9.5142
2021	4.9490	10.2503	1.5615	6.3101	1.4393	7.1947	8.8333
2022	4.9495	11.1218	1.5693	5.6386	1.4440	7.3582	8.3163
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
2019	4.7453	10.5891	1.6109	4.4134	1.4855	7.7355	8.7715
2020	4.8383	10.4848	1.6549	5.8943	1.5300	7.8747	8.8587
2021	4.9215	10.1465	1.5749	6.3779	1.4826	7.6282	9.1932
2022	4.9313	10.6296	1.5167	5.4399	1.3695	7.0788	8.2451

* 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 ...

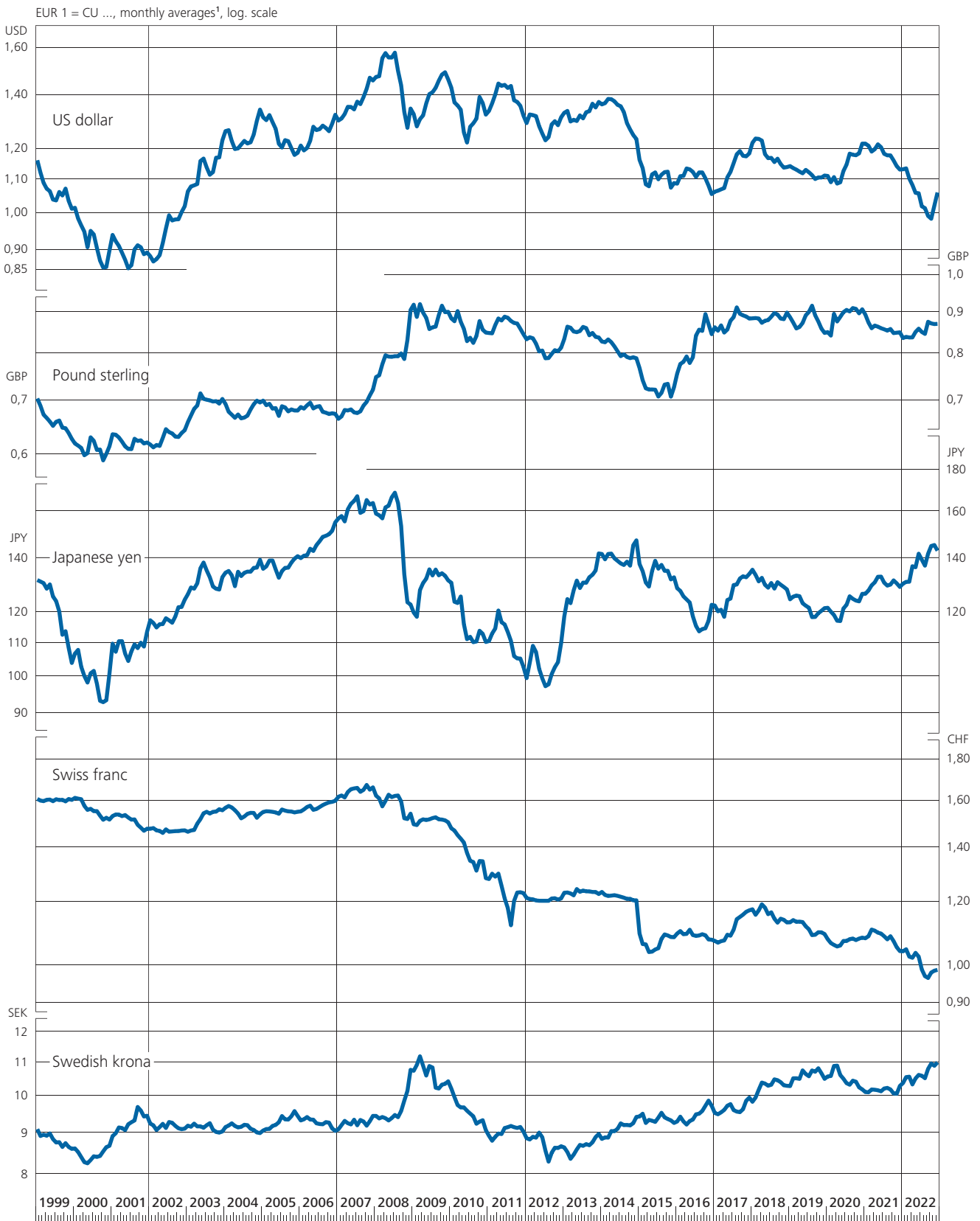
Other European and non-European countries (cont'd)									
India	Indonesia	Israel	Japan	Korea, Republic of	Malaysia	Mexico	New Zealand	Norway	
Indian rupee INR	Indonesian rupiah IDR	New shekel ILS ¹	Japanese yen JPY	South Korean won KRW	Malaysian ringgit MYR	Mexican peso MXN	New Zealand dollar NZD	Norwegian 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

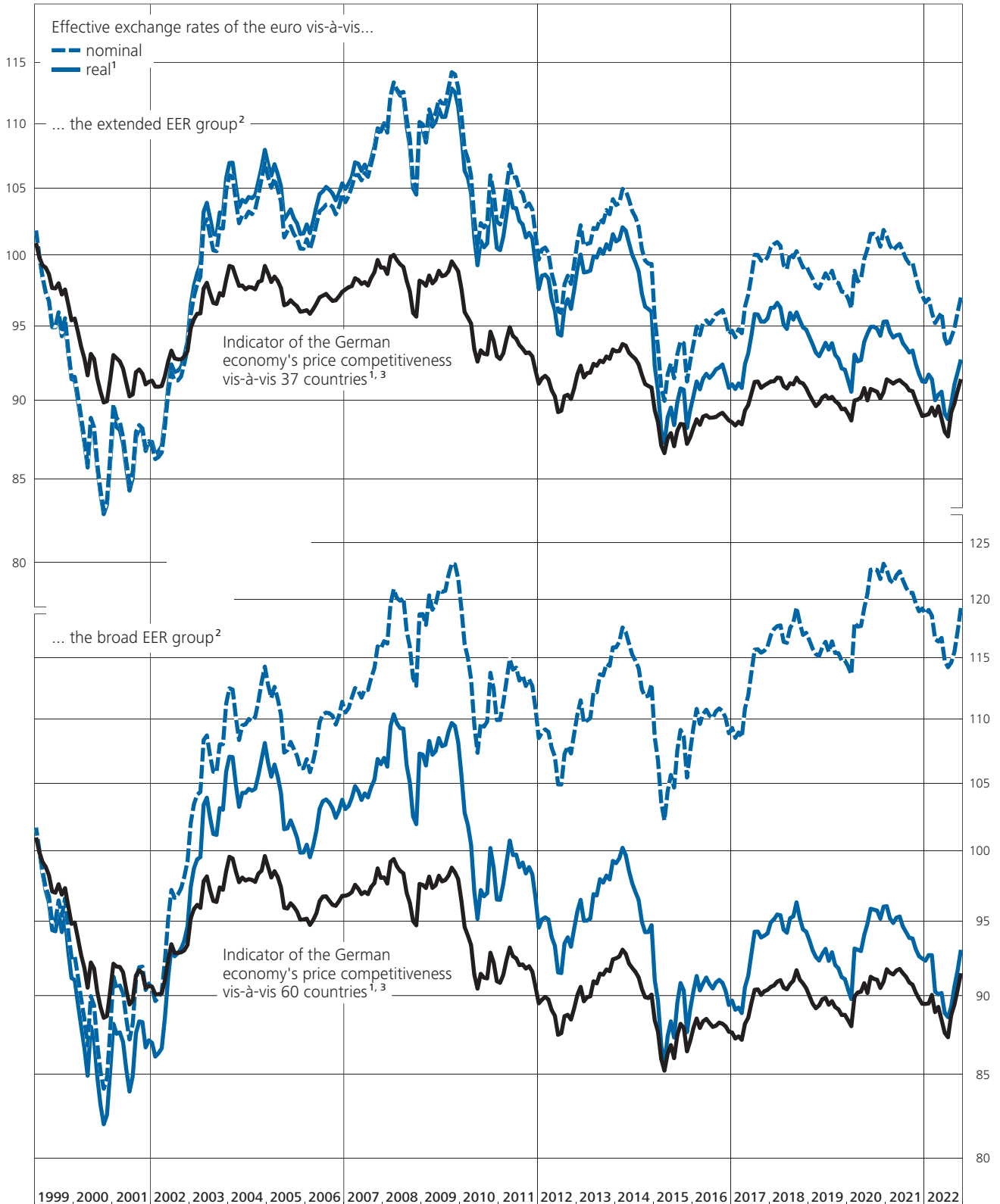


* See explanatory notes, p. 48. ¹ Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB.

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	95.9	96.2	96.6	95.9
2000	87.0	86.8	86.0	85.7	88.1	86.1
2001	87.5	87.1	86.6	84.5	90.2	86.9
2002	89.8	90.2	89.6	88.1	94.5	90.5
2003	100.4	101.4	100.8	99.2	106.4	101.6
2004	104.2	105.3	103.8	102.4	110.9	105.4
2005	102.8	104.0	101.8	100.6	109.1	103.0
2006	102.8	104.0	101.2	99.5	109.2	102.3
2007	106.3	107.0	103.5	101.2	112.8	104.5
2008	110.2	109.9	105.7	105.1	117.6	107.0
2009	111.7	110.8	106.8	108.7	120.7	108.1
2010	104.5	103.0	98.6	101.2	112.0	99.1
2011	104.2	102.1	96.7	99.4	112.8	98.6
2012	98.5	96.8	91.2	93.6	107.6	93.8
2013	102.1	99.9	94.2	96.5	112.3	96.8
2014	102.3	99.2	94.2	96.6	114.7	97.2
2015	92.5	89.5	85.6	86.0	106.2	88.6
2016	95.2	91.5	87.9	p 87.3	110.2	90.6
2017	97.5	93.4	89.1	p 88.0	112.6	91.8
2018	100.0	95.6	90.6	p 89.6	117.4	95.0
2019	98.1	93.2	88.9	p 87.1	115.6	92.4
2020	99.7	93.6	89.5	p 87.7	119.5	93.9
2021	99.6	93.5	p 88.7	p 85.9	120.9	94.3
2022	95.5	90.7	...	...	116.8	90.9
2021 Jan.	101.4	95.3			122.6	96.0
Feb.	100.7	94.6	90.1	p 87.9	121.7	95.2
Mar.	100.3	94.2			121.4	94.9
Apr.	100.6	94.4			122.1	95.2
May	100.8	94.4	89.4	p 86.4	122.4	95.3
June	100.3	93.8			121.7	94.6
July	99.7	93.5			121.0	94.2
Aug.	99.4	93.2	p 88.7	p 85.5	120.6	93.8
Sep.	99.5	93.3			120.6	93.8
Oct.	98.5	92.4			119.6	93.1
Nov.	97.6	91.7	p 86.7	p 83.9	119.0	92.6
Dec.	97.1	91.2			119.2	92.5
2022 Jan.	96.6	91.2			118.7	p 92.3
Feb.	96.9	91.7	p 84.8	p 82.4	119.1	p 92.7
Mar.	95.9	91.4			118.6	p 92.7
Apr.	95.2	90.0			116.6	p 90.3
May	95.6	90.4	p 83.3	p 80.9	116.4	p 90.1
June	95.9	90.6			116.7	p 90.2
July	94.1	89.1			114.7	p 88.9
Aug.	93.6	88.8	p 81.9	p 79.7	114.2	p 88.6
Sep.	94.2	89.8			114.6	p 89.3
Oct.	94.8	p 91.0			115.5	p 90.6
Nov.	96.0	p 91.8	...	...	117.2	p 91.7
Dec.	97.0	p 92.7			119.2	p 93.0
2022 Dec. 19	97.1	—	—	—	119.5	—
20	97.0	—	—	—	119.5	—
21	97.1	—	—	—	119.7	—
22	97.2	—	—	—	119.8	—
23	97.2	—	—	—	119.6	—
27	97.2	—	—	—	119.8	—
28	97.3	—	—	—	120.0	—
29	97.4	—	—	—	120.1	—
30	97.2	—	—	—	119.9	—
2023 Jan. 2	97.3	—	—	—	120.0	—
3	96.6	—	—	—	119.1	—
4	96.7	—	—	—	119.2	—
5	96.8	—	—	—	119.3	—
6	96.5	—	—	—	118.8	—
9	96.9	—	—	—	119.5	—
10	97.2	—	—	—	119.8	—
11	97.4	—	—	—	120.0	—
12	97.4	—	—	—	119.9	—
13	97.5	—	—	—	120.0	—
16	97.4	—	—	—	120.0	—

* 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	95.9	97.7	97.7	98.3	100.1	96.1	98.1	97.8		
2000	92.0	97.5	85.5	91.2	91.2	93.1	99.0	86.1	92.3	91.2		
2001	91.8	96.6	86.1	90.5	90.5	93.0	98.1	86.9	91.7	91.0		
2002	92.4	95.7	88.5	91.1	91.1	93.5	96.9	89.4	92.2	91.9		
2003	95.9	94.8	97.6	95.3	95.3	97.0	95.7	99.0	96.7	96.8		
2004	96.2	93.6	100.0	95.6	95.6	98.5	95.4	102.8	98.2	98.4		
2005	94.8	92.0	98.8	93.3	93.3	98.4	95.2	103.1	97.1	96.7		
2006	93.6	90.4	98.2	91.6	91.6	98.6	94.8	104.0	96.7	96.0		
2007	94.5	89.7	102.0	92.0	92.0	100.9	95.1	109.6	98.3	97.3		
2008	94.9	88.4	105.1	91.3	91.3	102.4	94.5	114.6	98.4	97.5		
2009	95.2	89.2	104.6	92.0	92.0	101.9	94.4	113.5	98.6	97.9		
2010	92.5	88.7	98.2	88.1	88.1	98.8	94.0	105.7	94.3	92.5		
2011	92.1	88.5	97.6	87.3	87.3	98.2	93.7	104.7	93.5	91.9		
2012	90.1	88.3	92.5	84.7	84.7	95.9	93.2	99.5	90.5	88.9		
2013	92.3	88.8	97.4	86.6	86.6	98.1	93.3	105.2	92.3	90.9		
2014	92.9	89.6	97.7	87.4	87.4	98.2	93.6	104.7	92.5	91.5		
2015	89.8	90.3	88.9	83.6	83.6	94.4	94.1	94.4	87.8	87.0		
2016	90.7	90.7	90.4	84.9	84.9	95.0	94.1	96.1	88.8	88.1		
2017	91.9	90.8	93.3	85.7	85.7	96.3	94.3	99.1	89.9	88.9		
2018	93.2	91.0	96.4	86.7	86.7	97.7	94.4	102.4	91.2	90.8		
2019	92.2	91.2	93.5	85.8	85.8	96.4	94.3	99.2	89.9	89.4		
2020	92.3	91.5	93.5	86.4	86.4	96.4	94.2	99.5	90.1	90.2		
2021	93.5	92.0	95.5	86.8	86.8	97.4	94.8	100.9	90.7	91.0		
2022	...	...	...	...	...	96.1	94.7	97.9	89.3	89.2
2019 July						96.7	94.4	99.7	90.1	89.4		
Aug.	92.2	91.3	93.5	86.1	86.1	96.5	94.3	99.4	90.2	89.6		
Sep.						96.2	94.4	98.4	89.9	89.2		
Oct.						96.2	94.4	98.5	89.8	89.1		
Nov.	92.0	91.4	92.7	85.8	85.8	95.9	94.4	97.9	89.4	88.7		
Dec.						95.9	94.4	97.8	89.4	88.7		
2020 Jan.						95.8	94.5	97.6	89.1	88.4		
Feb.	92.0	91.7	92.3	85.8	85.8	95.5	94.5	96.6	88.7	88.0		
Mar.						96.3	94.5	98.8	90.0	89.9		
Apr.						96.1	94.7	98.0	90.0	90.2		
May	91.8	91.7	91.7	86.3	86.3	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	99.6	90.0	90.2		
Aug.	92.5	91.1	94.4	86.8	86.8	97.0	94.1	101.0	90.7	91.2		
Sep.						96.8	94.0	100.9	90.7	91.1		
Oct.						96.7	93.9	100.8	90.6	91.0		
Nov.	93.1	91.4	95.6	86.9	86.9	96.5	93.7	100.5	90.1	90.5		
Dec.						97.0	93.6	101.8	90.5	90.9		
2021 Jan.						98.0	94.7	102.7	91.4	91.7		
Feb.	93.4	91.8	95.8	87.1	87.1	98.0	94.9	102.2	91.2	91.5		
Mar.						97.7	94.8	101.6	91.1	91.4		
Apr.						97.9	94.9	102.1	91.2	91.6		
May	93.2	91.4	95.8	86.6	86.6	98.0	95.0	102.4	91.3	91.8		
June						97.9	95.1	101.9	91.1	91.5		
July						97.7	95.2	101.0	91.0	91.2		
Aug.	93.7	92.2	95.8	87.1	87.1	97.3	95.1	100.5	90.6	90.9		
Sep.						97.3	94.9	100.5	90.6	90.7		
Oct.						96.7	94.6	99.4	90.0	90.2		
Nov.	93.5	92.6	94.6	86.5	86.5	96.2	94.4	98.5	89.5	89.8		
Dec.						95.7	94.1	97.8	89.0	89.5		
2022 Jan.						96.0	94.2	98.3	89.0	P 89.5		
Feb.	92.8	92.2	93.5	85.7	85.7	96.1	94.1	98.8	89.1	P 89.5		
Mar.						96.3	94.5	98.6	89.5	P 90.0		
Apr.						96.1	94.8	97.8	89.0	P 88.9		
May	92.0	91.7	92.5	84.9	84.9	96.6	95.3	98.1	89.6	P 89.3		
June						95.7	94.3	97.5	88.8	P 88.4		
July						94.9	94.2	95.5	88.0	P 87.6		
Aug.	P 91.8	92.1	P 91.1	P 84.9	P 84.9	94.5	94.0	94.8	87.7	P 87.3		
Sep.						96.0	95.1	97.0	89.2	P 88.7		
Oct.						96.1	94.8	97.7	P 89.8	P 89.4		
Nov.	...	...	...	...	...	P 97.1	P 95.4	99.3	P 90.6	P 90.4
Dec.						P 98.0	P 95.7	P 101.2	P 91.4	P 91.5		

* 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		
					October 2022	November 2022	December 2022
Afghanistan							
Kabul	Afghani = 100 puls	B	USD 1 =	AFN 89.6490	AFN 88.3013	AFN 88.3522	AFN 89.0900
		S	USD 1 =	AFN 89.7490	AFN 88.4013	AFN 88.4522	AFN 89.1900
	AFN	B	EUR 1 =	AFN 94.3145	AFN 86.6791	AFN 90.7277	AFN 94.3638
		S	EUR 1 =	AFN 94.5745	AFN 86.9391	AFN 90.9877	AFN 94.6238
Albania							
Tirana	Albanian lek = 100 qindarka ALL	M	USD 1 =	ALL 112.99	ALL 118.76	ALL 112.72	ALL 107.05
		M	EUR 1 =	ALL 118.82	ALL 118.07	ALL 116.86	ALL 114.23
Algeria							
Algiers	Algerian dinar = 100 centimes	B	USD 1 =	DZD 142.0187	DZD 140.3298	DZD 138.5464	DZD 137.2019
		S	USD 1 =	DZD 142.0337	DZD 140.3448	DZD 138.5614	DZD 137.2169
	DZD	B	EUR 1 =	DZD 149.5203	DZD 138.7721	DZD 143.4925	DZD 146.0240
		S	EUR 1 =	DZD 149.5785	DZD 138.8431	DZD 143.5635	DZD 146.0674
Angola							
Luanda	Kwanza = 100 cêntimos AOA	M	USD 1 =	AOA 460.0575	AOA 484.8175	AOA 506.7780	AOA 503.6910
		M	EUR 1 =	AOA 483.8991	AOA 481.2795	AOA 525.5290	AOA 537.4380
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 2.6651	XCD 2.7893	XCD 2.8672
		V, S	EUR 1 =	XCD 2.8609	XCD 2.6935	XCD 2.8191	XCD 2.8978
Argentina 1							
Buenos Aires	Argentine peso = 100 centavos	B	USD 1 =	ARS 130.6116	ARS 156.7100	ARS 167.0800	ARS 176.9600
		S	USD 1 =	ARS 130.8116	ARS 156.9100	ARS 167.2800	ARS 177.1600
	ARS	B	EUR 1 =	ARS 136.6931	ARS 154.7511	ARS 172.1592	ARS 189.2587
		S	EUR 1 =	ARS 137.2306	ARS 155.3409	ARS 172.7835	ARS 189.9155
Armenia							
Yerevan	Armenian dram = 100 luma AMD	M	USD 1 =	AMD 433.61	AMD 395.40	AMD 394.87	AMD 393.57
		M	EUR 1 =	AMD 457.81	AMD 392.83	AMD 408.89	AMD 420.06
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 176.92	AWG 184.47	AWG 190.36
		S	EUR 100 =	AWG 188.98	AWG 178.70	AWG 186.33	AWG 192.27

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		
					October 2022	November 2022	December 2022
Australia							
Canberra	Australian dollar = 100 cents AUD	M	AUD 1 =	USD 0.6947	USD 0.6420	USD 0.6698	USD 0.6775
		M	AUD 1 =	EUR 0.6593	EUR 0.6446	EUR 0.6468	EUR 0.6359
Austria							
Vienna	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
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 1.6930	AZN 1.7602	AZN 1.8114
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 V, S	EUR 1 = EUR 1 =	BSD 1.04774 BSD 1.06616	BSD 0.98644 BSD 1.00379	BSD 1.03241 BSD 1.05057	BSD 1.06127 BSD 1.07993
Bahrain							
Manama	Bahraini dinar = 1,000 fils BHD	2 M	USD 1 =	BHD 0.376081	BHD 0.376081	BHD 0.376081	BHD 0.376081
		M	EUR 1 =	BHD 0.3952958	BHD 0.3745580	BHD 0.3889620	BHD 0.3998310
Bangladesh 1							
Dhaka	Taka = 100 poisha BDT	B	USD 1 =	BDT 93.0250	BDT 99.5000	BDT 100.0000	BDT 101.0000
		S	USD 1 =	BDT 94.2567	BDT 103.4300	BDT 105.7300	BDT 103.1200
		B S	EUR 1 = EUR 1 =	BDT 97.2996 BDT 99.3953	BDT 98.0374 BDT 104.0196	BDT 103.0300 BDT 111.6192	BDT 106.2722 BDT 111.6068
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 S	EUR 1 = EUR 1 =	BBD 2.09598 BBD 2.13528	BBD 1.98079 BBD 2.01792	BBD 2.06302 BBD 2.10170	BBD 2.12625 BBD 2.16611
Belarus							
Minsk	Belarusian rouble = 100 kopecks BYN	M	USD 1 =	BYN 2.6257	BYN 2.4732	BYN 2.4349	BYN 2.7364
		M	EUR 1 =	BYN 2.7634	BYN 2.4560	BYN 2.5083	BYN 2.9156

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		
					October 2022	November 2022	December 2022
Belgium							
Brussels	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
Belize							
Belmopan	Belize dollar = 100 cents BZD	2 B	USD 1 =	BZD 1.9825	BZD 1.9825	BZD 1.9825	BZD 1.9825
		2 S	USD 1 =	BZD 2.0175	BZD 2.0175	BZD 2.0175	BZD 2.0175
		B	EUR 1 =	BZD 2.0826	BZD 1.9611	BZD 2.0594	BZD 2.1161
		S	EUR 1 =	BZD 2.1193	BZD 1.9957	BZD 2.0958	BZD 2.1535
Benin 1							
Porto-Novo Seat of government: Cotonou	CFA franc XOF	B	USD 1 =	XOF 621.10	XOF 656.25	XOF 630.00	XOF 612.75
		S	USD 1 =	XOF 628.10	XOF 663.25	XOF 637.00	XOF 619.75
		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 0.9874	BMD 1.0334	BMD 1.0623
		V, S	EUR 1 =	BMD 1.0575	BMD 0.9957	BMD 1.0421	BMD 1.0712
Bhutan 1							
Thimphu	Ngultrum = 100 chhetrum BTN	B	USD 1 =	BTN 77.80	BTN 81.25	BTN 80.50	BTN 81.50
		S	USD 1 =	BTN 80.22	BTN 83.80	BTN 83.00	BTN 84.05
		B	EUR 1 =	BTN 81.52	BTN 80.80	BTN 83.40	BTN 86.80
		S	EUR 1 =	BTN 83.79	BTN 83.10	BTN 85.65	BTN 89.25
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 6.8010	BOB 7.1179	BOB 7.3169
		V, S	EUR 1 =	BOB 7.3295	BOB 6.9001	BOB 7.2217	BOB 7.4235
Bosnia and Herzegovina							
Sarajevo	Convertible marka = 100 feninga BAM	B	USD 1 =	BAM 1.859955	BAM 1.960547	BAM 1.882057	BAM 1.832041
		S	USD 1 =	BAM 1.869278	BAM 1.970375	BAM 1.891491	BAM 1.841225
		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 0.0744	USD 0.0780	USD 0.0785
		S	BWP 1 =	USD 0.0806	USD 0.0742	USD 0.0778	USD 0.0783
		B	BWP 1 =	EUR 0.0770	EUR 0.0751	EUR 0.0752	EUR 0.0735
		S	BWP 1 =	EUR 0.0768	EUR 0.0749	EUR 0.0750	EUR 0.0734

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			
					October 2022	November 2022	December 2022	
Brazil								
Brasília	Brazilian real = 100 centavos	B	USD 1 =	BRL 5.1649	BRL 5.2564	BRL 5.2935	BRL 5.2171	
		S	USD 1 =	BRL 5.1655	BRL 5.2570	BRL 5.2941	BRL 5.2177	
	BRL	B	EUR 1 =	BRL 5.3984	BRL 5.1949	BRL 5.4507	BRL 5.5666	
		S	EUR 1 =	BRL 5.4004	BRL 5.1976	BRL 5.4529	BRL 5.5694	
	Brunei Darussalam ¹							
	Bandar Seri Begawan	Brunei dollar = 100 cents	B	USD 1 =	BND 1.3702	BND 1.4041	BND 1.3661	BND 1.3358
S			USD 1 =	BND 1.3874	BND 1.4215	BND 1.3834	BND 1.3525	
BND		B	EUR 1 =	BND 1.4255	BND 1.3805	BND 1.3955	BND 1.4074	
		S	EUR 1 =	BND 1.4796	BND 1.4349	BND 1.4499	BND 1.4607	
Bulgaria								
Sofia		Bulgarian lev = 100 stotinkas	M	USD 1 =	BGN 1.86180	BGN 1.97280	BGN 1.88496	BGN 1.83371
	²		EUR 1 =	BGN 1.95583	BGN 1.95583	BGN 1.95583	BGN 1.95583	
	BGN							
Burkina Faso ¹								
Ouagadougou	CFA franc	B	USD 1 =	XOF 621.10	XOF 656.25	XOF 630.00	XOF 612.75	
		S	USD 1 =	XOF 628.10	XOF 663.25	XOF 637.00	XOF 619.75	
	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 2,032.5987	BIF 2,041.7146	BIF 2,046.9424	
		S	USD 1 =	BIF 2,056.2563	BIF 2,073.6613	BIF 2,074.6454	BIF 2,079.9576	
	BIF	B	EUR 1 =	BIF 2,122.2930	BIF 2,023.0455	BIF 2,114.3996	BIF 2,180.6077	
		S	EUR 1 =	BIF 2,163.7098	BIF 2,063.9151	BIF 2,148.5028	BIF 2,215.7788	
	Cabo Verde							
	Praia	Cabo Verde escudo = 100 centavos	B	USD 1 =	CVE 105.075	CVE 110.707	CVE 106.271	CVE 103.532
S			USD 1 =	CVE 105.277	CVE 110.909	CVE 106.473	CVE 103.734	
CVE		²	EUR 1 =	CVE 110.265	CVE 110.265	CVE 110.265	CVE 110.265	
Cambodia								
Phnom Penh	Riel = 100 sen	M	USD 1 =	KHR 4,089	KHR 4,141	KHR 4,122	KHR 4,117	
		B	EUR 1 =	KHR 4,298	KHR 4,124	KHR 4,254	KHR 4,378	
	KHR	S	EUR 1 =	KHR 4,341	KHR 4,165	KHR 4,297	KHR 4,422	
Cameroon ¹								
Yaoundé	CFA franc	B	USD 1 =	XAF 619.1417	XAF 641.9262	XAF 621.8279	XAF 612.9097	
		S	USD 1 =	XAF 626.1757	XAF 654.4714	XAF 628.2812	XAF 617.0287	
	XAF	²	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957	
Canada								
Ottawa	Canadian dollar = 100 cents	M	USD 1 =	CAD 1.3013	CAD 1.3649	CAD 1.3508	CAD 1.3544	
		M	EUR 1 =	CAD 1.3703	CAD 1.3502	CAD 1.3992	CAD 1.4458	
	CAD							

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		
					October 2022	November 2022	December 2022
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 0.8262	KYD 0.8647	KYD 0.8888
Central African Republic ¹							
Bangui	CFA franc XAF	B	USD 1 =	XAF 619.1417	XAF 641.9262	XAF 621.8279	XAF 612.9097
		S	USD 1 =	XAF 626.1757	XAF 654.4714	XAF 628.2812	XAF 617.0287
		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 641.9262	XAF 621.8279	XAF 612.9097
		S	USD 1 =	XAF 626.1757	XAF 654.4714	XAF 628.2812	XAF 617.0287
		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 945.31	CLP 905.70	CLP 859.51
		M	EUR 1 =	CLP 917.60	CLP 943.61	CLP 936.12	CLP 916.91
China							
Beijing	Chinese renminbi ⁴ 1 yuan (renminbi) = 10 jiao = 100 fen CNY	M	USD 1 =	CNY 6.7261	CNY 7.1768	CNY 7.1769	CNY 6.9646
		M	EUR 1 =	CNY 7.0985	CNY 7.1703	CNY 7.4129	CNY 7.4229
		M	HKD 1 =	CNY 0.85986	CNY 0.91431	CNY 0.91869	CNY 0.89327
China (Taiwan)							
Taipei	New Taiwan dollar = 100 cents TWD	B	USD 1 =	TWD 29.808	TWD 32.165	TWD 30.840	TWD 30.660
		S	USD 1 =	TWD 29.908	TWD 32.265	TWD 30.940	TWD 30.760
		B	EUR 1 =	TWD 31.15	TWD 31.80	TWD 31.79	TWD 32.52
S	EUR 1 =	TWD 31.55	TWD 32.20	TWD 32.19	TWD 32.92		
Colombia							
Bogotá	Colombian peso = 100 centavos COP	M	USD 1 =	COP 4,255.98	COP 4,819.42	COP 4,809.51	COP 4,810.20
		V, M	EUR 1 =	COP 4,470.963	COP 4,777.973	COP 4,990.348	COP 5,130.559
Comoros							
Moroni	Comorian franc = 100 centimes KMF	V	USD 1 =	KMF 467.20584	KMF 496.23537	KMF 474.14008	KMF 461.24859
		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 641.9262	XAF 621.8279	XAF 612.9097
		S	USD 1 =	XAF 626.1757	XAF 654.4714	XAF 628.2812	XAF 617.0287
		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		
					October 2022	November 2022	December 2022
Congo, Democratic Republic of the							
Kinshasa	Congo franc = 100 centimes	B	USD 1 =	CDF 1,966.9502	CDF 1,972.4994	CDF 1,973.7085	CDF 1,976.2423
		S	USD 1 =	CDF 2,047.2339	CDF 2,053.0096	CDF 2,054.2680	CDF 2,056.9052
	CDF	B	EUR 1 =	CDF 2,068.3883	CDF 1,966.6744	CDF 2,049.8677	CDF 2,098.7483
S		EUR 1 =	CDF 2,152.8123	CDF 2,046.9468	CDF 2,133.5358	CDF 2,184.4115	
Cook Islands ¹							
Avarua	Cook Islands dollar ² = 100 cents	B	NZD 1 =	EUR 0.6136	EUR 0.5956	EUR 0.6118	EUR 0.6049
		S	NZD 1 =	EUR 0.5904	EUR 0.5731	EUR 0.5887	EUR 0.5818
	NZD						
Costa Rica							
San José	Costa Rican colón = 100 céntimos	B	USD 1 =	CRC 642.58	CRC 613.74	CRC 594.32	CRC 594.17
		S	USD 1 =	CRC 650.15	CRC 622.34	CRC 602.86	CRC 601.99
	CRC	V, B	EUR 1 =	CRC 674.9581	CRC 608.4618	CRC 616.6664	CRC 633.7417
		V, S	EUR 1 =	CRC 682.8784	CRC 616.9879	CRC 625.5275	CRC 642.0825
Côte d'Ivoire ¹							
Yamoussoukro Seat of government: Abidjan	CFA franc	B	USD 1 =	XOF 621.10	XOF 656.25	XOF 630.00	XOF 612.75
		S	USD 1 =	XOF 628.10	XOF 663.25	XOF 637.00	XOF 619.75
	XOF	3	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Croatia ⁴							
Zagreb	Kuna = 100 lipa	B	USD 1 =	HRK 7.151885	HRK 7.543334	HRK 7.250354	HRK 7.064848
		S	USD 1 =	HRK 7.194925	HRK 7.588730	HRK 7.293988	HRK 7.107364
	HRK	B	EUR 1 =	HRK 7.513327	HRK 7.507126	HRK 7.526593	HRK 7.514172
		S	EUR 1 =	HRK 7.558542	HRK 7.552304	HRK 7.571889	HRK 7.559392
Cuba ¹							
Havana	Cuban peso = 100 centavos	5 6 M	USD 1 =	CUP 24.00	CUP 24.00	CUP 24.00	CUP 24.00
		6 M	EUR 1 =	CUP 25.2152	CUP 23.7264	CUP 24.7224	CUP 25.6680
	CUP	7 M	USD 1 =	CUP 120.00 ⁸	CUP 120.00	CUP 120.00	CUP 120.00
		7 M	EUR 1 =	CUP 121.3464 ⁸	CUP 118.6320	CUP 123.6120	CUP 128.3400
Curaçao							
Willemstad	Netherlands Antillean guilder = 100 cents	5 B	USD 1 =	ANG 1.78	ANG 1.78	ANG 1.78	ANG 1.78
		5 S	USD 1 =	ANG 1.82	ANG 1.82	ANG 1.82	ANG 1.82
	ANG	B	EUR 100 =	ANG 187.16	ANG 176.93	ANG 184.48	ANG 190.36
S		EUR 100 =	ANG 190.93	ANG 180.49	ANG 188.20	ANG 194.19	
Cyprus							
Nicosia	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
Czechia							
Prague	Czech koruna = 100 heller CZK	M	USD 1 =	CZK 23.360	CZK 24.697	CZK 23.434	CZK 22.616
		M	EUR 1 =	CZK 24.537	CZK 24.485	CZK 24.340	CZK 24.115

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 Accession to the euro

area on 1 January 2023, see p 7 (Table I 1). ⁵ Value against the US dollar. ⁶ Rate for governmental transactions. ⁷ Rate for non-governmental transactions. ⁸ 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		
					October 2022	November 2022	December 2022
Denmark							
Copenhagen	Danish krone = 100 øre DKK	M	USD 100 =	DKK 708.30	DKK 750.90	DKK 716.71	DKK 697.22
		M	EUR 100 =	DKK 743.96	DKK 744.44	DKK 743.66	DKK 743.65
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 .	DJF 174.76	DJF 181.72	DJF .
		S	EUR 1 =	DJF .	DJF 181.58	DJF 188.81	DJF .
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 2.6651	XCD 2.7893	XCD 2.8672
		V, S	EUR 1 =	XCD 2.8609	XCD 2.6935	XCD 2.8191	XCD 2.8978
Dominican Republic							
Santo Domingo	Dominican peso = 100 centavos DOP	B	USD 1 =	DOP 54.1084	DOP 53.2031	DOP 53.7742	DOP 55.2362
		S	USD 1 =	DOP 55.4002	DOP 54.4538	DOP 54.8865	DOP 56.3681
		B	EUR 1 =	DOP 56.2465	DOP 52.1188	DOP 55.1140	DOP 57.9563
		S	EUR 1 =	DOP 59.9209	DOP 55.6526	DOP 58.5030	DOP 61.5235
Egypt							
Cairo	Egyptian pound = 100 piastres = 1,000 milliems EGP	B	USD 1 =	EGP 19.34	EGP 23.90	EGP 24.50	EGP 24.66
		S	USD 1 =	EGP 19.41	EGP 24.00	EGP 24.55	EGP 24.71
		B	EUR 1 =	EGP 20.1763	EGP 23.5965	EGP 25.2130	EGP 26.1667
		S	EUR 1 =	EGP 20.4427	EGP 23.9160	EGP 25.5271	EGP 26.3631
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, B / S	EUR 1 =	SVC 9.2138	SVC 8.6748	SVC 9.0790	SVC 9.3328
Equatorial Guinea ¹							
Malabo	CFA franc XAF	B	USD 1 =	XAF 619.1417	XAF 641.9262	XAF 621.8279	XAF 612.9097
		S	USD 1 =	XAF 626.1757	XAF 654.4714	XAF 628.2812	XAF 617.0287
		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 15.0540	ERN 15.7095	ERN 15.9570
		S	EUR 1 =	ERN 16.4057	ERN 15.6902	ERN 16.3457	ERN 16.5932
Estonia							
Tallinn	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666

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		
					October 2022	November 2022	December 2022
Eswatini ¹							
Mbabane	Lilangeni = 100 cents	B	USD 1 =	SZL 16.3727	SZL 18.2375	SZL 16.9119	SZL 16.9427
		S	USD 1 =	SZL 16.3850	SZL 18.2468	SZL 16.9194	SZL 16.9543
	SZL	B	EUR 1 =	SZL 17.1847	SZL 18.1479	SZL 17.5570	SZL 18.0671
		S	EUR 1 =	SZL 17.2046	SZL 18.1646	SZL 17.5653	SZL 18.0804
Ethiopia							
Addis Ababa	Birr = 100 cents	B	USD 1 =	ETB 51.9141	ETB 52.8777	ETB 53.0339	ETB 53.3387
		S	USD 1 =	ETB 52.9524	ETB 53.9353	ETB 54.0946	ETB 54.4055
	ETB	B	EUR 1 =	ETB 54.5005	ETB 52.5922	ETB 55.0121	ETB 56.7257
		S	EUR 1 =	ETB 55.5905	ETB 53.6440	ETB 56.1123	ETB 57.8602
Falkland Islands (Islas Malvinas)							
Stanley	Falkland Islands pound ² = 100 pence FKP	V	USD 1 =	FKP 0.80984	FKP 0.86862	FKP 0.83354	FKP 0.83155
		V	EUR 1 =	FKP 0.85276	FKP 0.86115	FKP 0.86488	FKP 0.88693
Fiji							
Suva	Fiji dollar = 100 cents	B	FJD 1 =	USD 0.4618	USD 0.4402	USD 0.4525	USD 0.4579
		S	FJD 1 =	USD 0.4449	USD 0.4232	USD 0.4355	USD 0.4409
	FJD	B	FJD 1 =	EUR 0.4372	EUR 0.4395	EUR 0.4349	EUR 0.4289
		S	FJD 1 =	EUR 0.4251	EUR 0.4275	EUR 0.4229	EUR 0.4169
Finland							
Helsinki	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
France							
Paris	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
Gabon ¹							
Libreville	CFA franc	B	USD 1 =	XAF 619.1417	XAF 641.9262	XAF 621.8279	XAF 612.9097
		S	USD 1 =	XAF 626.1757	XAF 654.4714	XAF 628.2812	XAF 617.0287
	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 58.45	GMD 60.57	GMD 60.82
		M	EUR 1 =	GMD 59.46	GMD 59.14	GMD 62.50	GMD 64.19
Georgia							
Tbilisi	Lari = 100 tetri GEL	M	USD 1 =	GEL 2.9098	GEL 2.7758	GEL 2.7153	GEL 2.7020
		M	EUR 1 =	GEL 3.0689	GEL 2.7591	GEL 2.8196	GEL 2.8844

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			
					October 2022	November 2022	December 2022	
Germany								
Berlin	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666	
Ghana ¹								
Accra	Ghana cedi = 100 Ghana pesewas GHS	B S	USD 1 =	GHS 8.4426	GHS 13.0021	GHS 13.0978	GHS 8.5717	1
			USD 1 =	GHS 8.4511	GHS 13.0151	GHS 13.1110	GHS 8.5803	1
		B S	EUR 1 =	GHS 8.8173	GHS 12.8545	GHS 13.5751	GHS 9.1412	1
			EUR 1 =	GHS 8.8260	GHS 12.8674	GHS 13.5875	GHS 9.1502	1
Gibraltar								
Gibraltar	Gibraltar pound ² = 100 pence GIP	V V	USD 1 =	GIP 0.80984	GIP 0.86862	GIP 0.83354	GIP 0.83155	
			EUR 1 =	GIP 0.85276	GIP 0.86115	GIP 0.86488	GIP 0.88693	
Greece								
Athens	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666	
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 2.6651	XCD 2.7893	XCD 2.8672	
			EUR 1 =	XCD 2.8609	XCD 2.6935	XCD 2.8191	XCD 2.8978	
Guatemala								
Guatemala City	Quetzal = 100 centavos GTQ	M V, M	USD 1 =	GTQ 7.75578	GTQ 7.82857	GTQ 7.84134	GTQ 7.85222	
			EUR 1 =	GTQ 8.14131	GTQ 7.76124	GTQ 8.13617	GTQ 8.37518	
Guinea								
Conakry	Guinean franc GNF	M M	USD 1 =	GNF 8,677.1655	GNF 8,550.1532	GNF 8,565.4413	GNF 8,553.2812	
			EUR 1 =	GNF 9,119.7462	GNF 8,508.2573	GNF 8,878.9412	GNF 9,085.2923	
Guinea-Bissau ¹								
Bissau	CFA franc XOF	B S	USD 1 =	XOF 621.10	XOF 656.25	XOF 630.00	XOF 612.75	
			USD 1 =	XOF 628.10	XOF 663.25	XOF 637.00	XOF 619.75	
		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 206.38	GYD 215.21	GYD 222.33	
			EUR 1 =	GYD 221.18	GYD 209.04	GYD 217.97	GYD 225.19	

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		
					October 2022	November 2022	December 2022
Haiti							
Port-au-Prince	Gourde = 100 centimes HTG	M	USD 1 =	HTG 116.5416	HTG 125.6432	HTG 138.9643	HTG 145.1973
		V, M	EUR 1 =	HTG 122.1069	HTG 124.5627	HTG 144.1894	HTG 154.8674
Honduras							
Tegucigalpa	Lempira = 100 centavos HNL	B	USD 1 =	HNL 24.4976	HNL 24.6900	HNL 24.6294	HNL 24.5978
		S	USD 1 =	HNL 24.6486	HNL 24.8135	HNL 24.7525	HNL 24.7208
		V, B	EUR 1 =	HNL 25.7194	HNL 24.4777	HNL 25.5555	HNL 26.2360
		V, S	EUR 1 =	HNL 25.8786	HNL 24.6001	HNL 25.6832	HNL 26.3672
Hong Kong							
Hong Kong	Hong Kong dollar = 100 cents HKD	B	USD 1 =	HKD 7.79913	HKD 7.81870	HKD 7.77100	HKD 7.76740
		S	USD 1 =	HKD 7.86089	HKD 7.88040	HKD 7.83280	HKD 7.82920
		B	EUR 1 =	HKD 8.16743	HKD 7.72140	HKD 8.01480	HKD 8.24070
		S	EUR 1 =	HKD 8.30988	HKD 7.86340	HKD 8.15720	HKD 8.38320
Hungary							
Budapest	Hungarian forint = 100 fillér HUF	M	USD 1 =	HUF 373.12	HUF 414.46	HUF 393.54	HUF 375.68
		M	EUR 1 =	HUF 393.01	HUF 412.01	HUF 407.67	HUF 400.25
Iceland							
Reykjavík	Icelandic krona ISK	M	USD 1 =	ISK 135.359	ISK 144.54	ISK 141.77	ISK 142.04
		M	EUR 1 =	ISK 141.900	ISK 143.30	ISK 147.10	ISK 151.50
India ¹							
New Delhi	Indian rupee = 100 paise INR	M	USD 1 =	INR 78.6531	INR 82.3934	INR 81.5970	INR 82.7862
		M	EUR 1 =	INR 82.8923	INR 81.9232	INR 84.4507	INR 88.1496
Indonesia							
Jakarta	Indonesian rupiah = 100 sen IDR	B	USD 1 =	IDR 14,789.68	IDR 15,464.29	IDR 15,658.32	IDR 15,652.34
		S	USD 1 =	IDR 14,938.32	IDR 15,619.71	IDR 15,815.68	IDR 15,809.66
		B	EUR 1 =	IDR 15,596.28	IDR 15,386.97	IDR 16,243.94	IDR 16,625.92
		S	EUR 1 =	IDR 15,757.15	IDR 15,543.17	IDR 16,411.93	IDR 16,799.34
Iran, Islamic Republic of ¹							
Tehran	Iranian rial = 100 dinars IRR	2 M	USD 1 =	IRR 42,000	IRR 42,000	IRR 42,000	IRR 42,000
		2 M	EUR 1 =	IRR 44,192	IRR 41,794	IRR 43,490	IRR 44,745
		3 M	USD 1 =	IRR 312,767	IRR 333,200	IRR 360,900	IRR 397,600
		3 M	EUR 1 =	IRR 328,613	IRR 329,500	IRR 373,600	IRR 426,500

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		
					October 2022	November 2022	December 2022
Iraq 1							
Baghdad	Iraqi dinar = 1,000 fils IQD	2 B 2 S	USD 1 =	IQD 1,450.00	IQD 1,450.00	IQD 1,450.00	IQD 1,450.00
			USD 1 =	IQD 1,460.00	IQD 1,460.00	IQD 1,460.00	IQD 1,460.00
		B S	EUR 1 =	IQD 1,520.325	IQD 1,437.530	IQD 1,504.520	IQD 1,545.845
			EUR 1 =	IQD 1,530.810	IQD 1,447.444	IQD 1,514.896	IQD 1,556.506
		3 S	USD 1 =	IQD 1,483.151	IQD 1,464.365	IQD 1,507.477	IQD 1,544.021
V, S	EUR 1 =	IQD 1,557.36	IQD 1,451.77	IQD 1,564.16	IQD 1,646.85		
Ireland							
Dublin	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
Israel							
Jerusalem	New shekel = 100 agorot ILS	M	USD 1 =	ILS 3.3577	ILS 3.5300	ILS 3.4410	ILS 3.5190
		M	EUR 1 =	ILS 3.5456	ILS 3.4980	ILS 3.5642	ILS 3.7530
Italy							
Rome	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
Jamaica							
Kingston	Jamaican dollar = 100 cents JMD	B S	USD 1 =	JMD 152.5317	JMD 152.4622	JMD 153.0167	JMD 151.0898
			USD 1 =	JMD 154.0195	JMD 154.0909	JMD 155.0190	JMD 152.3094
		B S	EUR 1 =	JMD 156.9033	JMD 153.4742	JMD 152.3043	JMD 155.1361
			EUR 1 =	JMD 164.3159	JMD 157.4485	JMD 163.6330	JMD 164.8326
Japan							
Tokyo	Japanese yen = 100 sen JPY	B S	USD 1 =	JPY 130.62	JPY 147.26	JPY 137.87	JPY 131.70
			USD 1 =	JPY 132.62	JPY 149.26	JPY 139.87	JPY 133.70
		B S	EUR 1 =	JPY 137.02	JPY 146.09	JPY 142.08	JPY 139.97
			EUR 1 =	JPY 140.02	JPY 149.09	JPY 145.08	JPY 142.97
Jordan							
Amman	Jordanian dinar = 1,000 fils JOD	2 B 2 S	USD 1 =	JOD 0.7080	JOD 0.7080	JOD 0.7080	JOD 0.7080
			USD 1 =	JOD 0.7100	JOD 0.7100	JOD 0.7100	JOD 0.7100
		B S	EUR 1 =	JOD 0.74033	JOD 0.70177	JOD 0.73044	JOD 0.75098
			EUR 1 =	JOD 0.74820	JOD 0.70752	JOD 0.73705	JOD 0.75665
Kazakhstan							
Astana	Tenge = 100 tiyn KZT	M	USD 1 =	KZT 460.06	KZT 467.00	KZT 468.43	KZT 462.65
		M	EUR 1 =	KZT 483.87	KZT 464.76	KZT 485.43	KZT 492.86

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; value against the US dollar. 3 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		
					October 2022	November 2022	December 2022
Kenya ¹							
Nairobi	Kenya shilling = 100 cents	B	USD 1 =	KES 118.1835	KES 121.2324	KES 122.3471	KES 123.2735
		S	USD 1 =	KES 118.3835	KES 121.4324	KES 122.5471	KES 123.4735
	KES	B	EUR 1 =	KES 124.2511	KES 120.9776	KES 127.0012	KES 131.1400
		S	EUR 1 =	KES 124.4973	KES 121.2076	KES 127.2488	KES 131.3906
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 1,417.00	KRW 1,306.10	KRW 1,250.70
		S	USD 1 =	KRW 1,306.47	KRW 1,445.00	KRW 1,331.90	KRW 1,275.30
	KRW	B	EUR 1 =	KRW 1,344.59	KRW 1,400.83	KRW 1,355.24	KRW 1,338.41
		S	EUR 1 =	KRW 1,371.74	KRW 1,429.11	KRW 1,382.60	KRW 1,365.43
Kuwait							
Kuwait	Kuwaiti dinar = 1,000 fils	B	USD 1 =	KWD 0.30500	KWD 0.30805	KWD 0.30625	KWD 0.30500
		S	USD 1 =	KWD 0.30889	KWD 0.31165	KWD 0.30985	KWD 0.30860
	KWD	B	EUR 1 =	KWD 0.320336	KWD 0.304846	KWD 0.317888	KWD 0.326503
		S	EUR 1 =	KWD 0.324428	KWD 0.308409	KWD 0.321624	KWD 0.330356
Kyrgyzstan							
Bishkek	Kyrgyz som = 100 tyjyn KGS	M	USD 1 =	KGS 83.9515	KGS 83.2481	KGS 84.4475	KGS 85.6800
		M	EUR 1 =	KGS 88.5146	KGS 82.7902	KGS 87.6776	KGS 91.4377
Lao People's Democratic Republic							
Vientiane	Kip	B	USD 1 =	LAK 14,506	LAK 17,270	LAK 17,235	LAK 17,220
		S	USD 1 =	LAK 14,554	LAK 17,353	LAK 17,363	LAK 17,347
	LAK	B	EUR 1 =	LAK 15,144	LAK 17,110	LAK 17,766	LAK 18,287
		S	EUR 1 =	LAK 15,267	LAK 17,279	LAK 17,942	LAK 18,468
Latvia							
Riga	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
Lebanon ¹							
Beirut	Lebanese pound = 100 piastres	² M	USD 1 =	LBP 1,507.50	LBP 1,507.50	LBP 1,507.50	LBP 1,507.50
		² M	EUR 1 =	LBP 1,588.07	LBP 1,497.70	LBP 1,562.67	LBP 1,603.83
	LBP	³ M	USD 1 =	LBP 26,433.00	LBP 30,100.00	LBP 30,300.00	LBP 38,000.00
		V, M	EUR 1 =	LBP 27,637.68	LBP 29,841.14	LBP 31,439.28	LBP 40,530.80

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		
					October 2022	November 2022	December 2022
Lesotho ¹							
Maseru	Loti = 100 lisente LSL	M	USD 1 =	LSL 16.4312	LSL 18.0678 ²	LSL 16.9446	LSL 17.0860
			EUR 1 =	LSL 17.1975	LSL 17.8251 ²	LSL 17.5700	LSL 18.2016
Liberia ¹							
Monrovia	Liberian dollar = 100 cents LRD	B S	USD 1 =	LRD 152.4261	LRD 152.7815	LRD 153.2505	LRD 153.6472
			USD 1 =	LRD 154.1709	LRD 154.5718	LRD 154.9968	LRD 155.3317
			EUR 1 =	LRD 160.0355	LRD 151.4676	LRD 159.0127	LRD 163.8801
		V, B V, S	EUR 1 =	LRD 161.8671	LRD 153.2425	LRD 160.8247	LRD 165.6768
Libya							
Tripoli	Libyan dinar = 1,000 dirham LYD	B S	USD 1 =	LYD 4.8064	LYD 4.9846	LYD 4.8822	LYD 4.8167
			USD 1 =	LYD 4.8305	LYD 5.0095	LYD 4.9066	LYD 4.8408
		B S	EUR 1 =	LYD 5.0421	LYD 4.9561	LYD 5.0526	LYD 5.1158
			EUR 1 =	LYD 5.0674	LYD 4.9810	LYD 5.0779	LYD 5.1414
Lithuania							
Luxembourg	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
Macao ¹							
Macao	Pataca = 100 avos MOP	B S	USD 1 =	MOP 8.0598	MOP 8.0777	MOP 8.0346	MOP 8.0238
			USD 1 =	MOP 8.0860	MOP 8.1039	MOP 8.0608	MOP 8.0500
		B S	EUR 1 =	MOP 8.4692	MOP 8.0265	MOP 8.3142	MOP 8.5307
			EUR 1 =	MOP 8.5204	MOP 8.0657	MOP 8.3534	MOP 8.5699
Madagascar							
Antananarivo	Ariary = 5 iraimbilanja MGA	M	USD 1 =	MGA 4,107.15	MGA 4,254.62	MGA 4,347.77	MGA 4,461.98
			EUR 1 =	MGA 4,306.86	MGA 4,213.43	MGA 4,483.03	MGA 4,728.55
Malawi							
Lilongwe	Malawi kwacha = 100 tambala MWK	B S	USD 1 =	MWK 946.8481	MWK 1,016.6211	MWK 1,016.6211	MWK 1,016.6211
			USD 1 =	MWK 965.2420	MWK 1,036.2485	MWK 1,036.2485	MWK 1,036.2485
		B S	EUR 1 =	MWK 1,005.5700	MWK 1,040.6275	MWK 1,083.1406	MWK 1,114.9730
			EUR 1 =	MWK 1,025.1127	MWK 1,060.7185	MWK 1,104.0524	MWK 1,136.4994
Malaysia							
Kuala Lumpur Seat of government: Putrajaya	Malaysian ringgit = 100 sen MYR	B S	USD 1 =	MYR 4.3345	MYR 4.6462	MYR 4.4399	MYR 4.3340
			USD 1 =	MYR 4.4742	MYR 4.8088	MYR 4.5852	MYR 4.4910
		B S	EUR 1 =	MYR 4.5384	MYR 4.6050	MYR 4.5764	MYR 4.6090
			EUR 1 =	MYR 4.7256	MYR 4.8074	MYR 4.7537	MYR 4.8000

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 Exchange rate as of 7 November 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		
					October 2022	November 2022	December 2022
Maldives							
Malé	Rufiyaa = 100 laari MVR	M	USD 1 =	MVR 15.39	MVR 15.40	MVR 15.37	MVR 15.40
		V, M	EUR 1 =	MVR 16.16374	MVR 15.26756	MVR 15.94791	MVR 16.42564
Mali 1							
Bamako	CFA franc XOF	B	USD 1 =	XOF 621.10	XOF 656.25	XOF 630.00	XOF 612.75
		S	USD 1 =	XOF 628.10	XOF 663.25	XOF 637.00	XOF 619.75
		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 0.9914	USD 1.0376	USD 1.0666
Mauritania							
Nouakchott	Ouguiya MRU	B	USD 1 =	MRU 36.85	MRU 37.79	MRU 37.82	MRU 36.55
		S	USD 1 =	MRU 37.21	MRU 38.16	MRU 38.19	MRU 36.91
		B	EUR 1 =	MRU 38.61	MRU 37.54	MRU 39.16	MRU 38.88
		S	EUR 1 =	MRU 38.99	MRU 37.91	MRU 39.55	MRU 39.27
Mauritius							
Port Louis	Mauritian rupee = 100 cents MUR	B	USD 1 =	MUR 43.6957	MUR 43.5243	MUR 43.3143	MUR 43.4643
		S	USD 1 =	MUR 44.5951	MUR 44.4236	MUR 44.2136	MUR 44.3643
		B	EUR 1 =	MUR 45.8582	MUR 43.2663	MUR 44.7760	MUR 46.1932
		S	EUR 1 =	MUR 47.1258	MUR 44.4724	MUR 45.9932	MUR 47.4756
Mexico							
Mexico City	Mexican peso = 100 centavos MXN	M	USD 1 =	MXN 20.0794	MXN 19.8103	MXN 19.3081	MXN 19.5089
		V, M	EUR 1 =	MXN 21.0432	MXN 19.6399	MXN 20.0341	MXN 20.8082
Moldova, Republic of							
Chisinau	Moldovan leu = 100 bani MDL	M	USD 1 =	MDL 18.91190	MDL 19.3295	MDL 19.3737	MDL 19.1579
		M	EUR 1 =	MDL 19.86830	MDL 19.2261	MDL 20.1110	MDL 20.3792
Mongolia							
Ulan Bator	Togrog = 100 mongo MNT	M	USD 1 =	MNT 3,164.28	MNT 3,390.99	MNT 3,420.06	MNT 3,444.60
		M	EUR 1 =	MNT 3,322.26	MNT 3,367.25	MNT 3,540.10	MNT 3,669.02
Morocco							
Rabat	Moroccan dirham = 100 centimes MAD	M	USD 1 =	MAD 10.1646	MAD 10.9235	MAD 10.7049	MAD 10.4477
		M	EUR 1 =	MAD 10.6851	MAD 10.8525	MAD 11.0817	MAD 11.1592

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		
					October 2022	November 2022	December 2022
Mozambique							
Maputo	Metical = 100 centavos	B S	USD 1 =	MZN 63.22	MZN 63.24	MZN 63.24	MZN 63.24
			USD 1 =	MZN 64.48	MZN 64.50	MZN 64.50	MZN 64.50
	MZN	B S	EUR 1 =	MZN 66.37	MZN 62.67	MZN 65.58	MZN 67.51
EUR 1 =			MZN 67.70	MZN 63.92	MZN 66.89	MZN 68.85	
Myanmar							
Nay Pyi Taw	Kyat = 100 pyas	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 2,085.10	MMK 2,178.50	MMK 2,237.80
MMK							
Namibia 1							
Windhoek	Namibia dollar = 100 cents	M M	USD 1 =	NAD 16.3860	NAD 18.1992	NAD 16.9594	NAD 16.9624
			EUR 1 =	NAD 17.1944	NAD 18.1275	NAD 17.5478	NAD 18.0765
NAD							
Nepal							
Kathmandu	Nepalese rupee = 100 paisa	B S	USD 1 =	NPR 125.93	NPR 131.66	NPR 130.46	NPR 132.06
			USD 1 =	NPR 126.53	NPR 132.26	NPR 131.06	NPR 132.66
	NPR	B S	EUR 1 =	NPR 132.44	NPR 131.20	NPR 135.31	NPR 140.78
			EUR 1 =	NPR 133.07	NPR 131.80	NPR 135.94	NPR 141.42
Netherlands							
Amsterdam Seat of government: The Hague	Euro = 100 cent	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
	EUR						
New Caledonia 1							
Nouméa	CFP franc	V 2	XPF 1,000 =	USD 8.82	USD 8.31	USD 8.70	USD 8.94
			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 0.5929	USD 0.6330	USD 0.6444
			NZD 1 =	USD 0.6015	USD 0.5707	USD 0.6092	USD 0.6199
	NZD	B S	NZD 1 =	EUR 0.6136	EUR 0.5956	EUR 0.6118	EUR 0.6049
			NZD 1 =	EUR 0.5904	EUR 0.5731	EUR 0.5887	EUR 0.5818
Nicaragua							
Managua	Córdoba = 100 centavos	M V, M	USD 1 =	NIO 35.9031	NIO 36.1117	NIO 36.1705	NIO 36.2314
			EUR 1 =	NIO 37.69085	NIO 35.80114	NIO 37.53051	NIO 38.64441
	NIO						

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		
					October 2022	November 2022	December 2022
Niger ¹							
Niamey	CFA franc	B	USD 1 =	XOF 621.10	XOF 656.25	XOF 630.00	XOF 612.75
		S	USD 1 =	XOF 628.10	XOF 663.25	XOF 637.00	XOF 619.75
		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 438.02	NGN 443.084	NGN 448.050
		S	USD 1 =	NGN 424.509	NGN 439.02	NGN 444.084	NGN 449.050
	B	EUR 1 =	NGN 445.0897	NGN 435.2167	NGN 459.0793	NGN 478.3830	
	S	EUR 1 =	NGN 446.4515	NGN 436.2103	NGN 460.2254	NGN 479.4507	
North Macedonia							
Skopje	North Macedonia denar = 100 deni	B	USD 1 =	MKD 58.3798	MKD 61.6886	MKD 59.2191	MKD 57.3652
		S	USD 1 =	MKD 58.9665	MKD 62.3086	MKD 59.8143	MKD 57.9418
	B	EUR 1 =	MKD 61.3099	MKD 61.3863	MKD 61.3865	MKD 61.1857	
	S	EUR 1 =	MKD 61.9261	MKD 62.0033	MKD 62.0035	MKD 61.8007	
Norway							
Oslo	Norwegian krone = 100 øre	B	USD 1 =	NOK 9.5924	NOK 10.3458	NOK 9.9550	NOK 9.8686
		S	USD 1 =	NOK 9.6684	NOK 10.4218	NOK 10.0310	NOK 9.9446
	B	EUR 1 =	NOK 10.0833	NOK 10.2720	NOK 10.3039	NOK 10.5097	
	S	EUR 1 =	NOK 10.1683	NOK 10.3570	NOK 10.3889	NOK 10.5947	
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 0.3826176	OMR 0.3988992	OMR 0.4078848	
	S	EUR 1 =	OMR 0.4046254	OMR 0.3836525	OMR 0.3999765	OMR 0.4089855	
Pakistan							
Islamabad	Pakistani rupee = 100 paisa	B	USD 1 =	PKR 205.12	PKR 222.40	PKR 223.90	PKR 226.40
		S	USD 1 =	PKR 205.62	PKR 222.90	PKR 224.40	PKR 226.90
	B	EUR 1 =	PKR 215.59	PKR 222.05	PKR 232.18	PKR 241.80	
	S	EUR 1 =	PKR 216.12	PKR 222.54	PKR 232.70	PKR 242.33	
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 0.9914	PAB 1.0376	PAB 1.0666
Papua New Guinea							
Port Moresby	Kina = 100 toea	B	PGK 1 =	USD 0.2916	USD 0.2915	USD 0.2915	USD 0.2915
		S	PGK 1 =	USD 0.2766	USD 0.2765	USD 0.2765	USD 0.2765
	B	PGK 1 =	EUR 0.2711	EUR 0.2857	EUR 0.2755	EUR 0.2669	
	S	PGK 1 =	EUR 0.2561	EUR 0.2707	EUR 0.2605	EUR 0.2519	

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		
					October 2022	November 2022	December 2022
Paraguay							
Asunción	Guaraní = 100 céntimos	B S	USD 1 =	PYG 6,980.58	PYG 7,237.87	PYG 7,207.18	PYG 7,322.90
			USD 1 =	PYG 6,993.10	PYG 7,254.43	PYG 7,218.83	PYG 7,339.62
	PYG	V, B V, S	EUR 1 = EUR 1 =	PYG 7,349.72 PYG 7,362.88	PYG 7,175.62 PYG 7,192.04	PYG 7,478.17 PYG 7,490.26	PYG 7,798.16 PYG 7,815.96
Peru							
Lima	Sol = 100 céntimos	B S	USD 1 =	PEN 3.831	PEN 3.984	PEN 3.849	PEN 3.808
			USD 1 =	PEN 3.839	PEN 3.993	PEN 3.854	PEN 3.820
	PEN	B S	EUR 1 =	PEN 3.908	PEN 3.606	PEN 3.807	PEN 3.869
			EUR 1 =	PEN 4.313	PEN 4.309	PEN 4.331	PEN 4.360
Philippines							
Manila	Philippine peso = 100 centavos	B S	USD 1 =	PHP 54.25	PHP 57.65	PHP 56.30	PHP 55.40
			USD 1 =	PHP 54.75	PHP 58.15	PHP 56.80	PHP 55.90
	PHP	B S	EUR 1 = EUR 1 =	PHP 55.5211 PHP 58.7388	PHP 55.7193 PHP 59.2331	PHP 56.8654 PHP 60.3378	PHP 57.8331 PHP 60.8302
Poland							
Warsaw	Polish zloty = 100 groszy PLN	M M	USD 1 =	PLN 4.4615	PLN 4.7340	PLN 4.5066	PLN 4.4018
			EUR 1 =	PLN 4.6883	PLN 4.7089	PLN 4.6684	PLN 4.6899
Portugal							
Lisbon	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
Qatar							
Doha	Qatari riyal = 100 dirham QAR	2 V, M	USD 1 =	QAR 3.6400	QAR 3.6400	QAR 3.6400	QAR 3.6400
			EUR 1 =	QAR 3.8219	QAR 3.6087	QAR 3.7769	QAR 3.8824
Romania							
Bucharest	Romanian leu = 100 bani RON	M M	USD 1 =	RON 4.6923	RON 4.9487	RON 4.7383	RON 4.6346
			EUR 1 =	RON 4.9335	RON 4.9141	RON 4.9184	RON 4.9474
Russian Federation							
Moscow	Russian rouble = 100 kopecks RUB	M M	USD 1 =	RUB 68.3522	RUB 61.5343	RUB 61.0742	RUB 70.3375
			EUR 1 =	RUB 70.4832 ³	RUB 61.1328 ³	RUB 63.3882 ³	RUB 75.6553 ³

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		
					October 2022	November 2022	December 2022
Rwanda							
Kigali	Rwanda franc = 100 centimes	B	USD 1 =	RWF 1,021.528453	RWF 1,038.450139	RWF 1,047.161562	RWF 1,060.112344
		S	USD 1 =	RWF 1,041.956959	RWF 1,059.217045	RWF 1,068.102678	RWF 1,081.312450
	RWF	B	EUR 1 =	RWF 1,075.04828	RWF 1,034.19249	RWF 1,084.75466	RWF 1,131.13987
		S	EUR 1 =	RWF 1,096.54708	RWF 1,054.87426	RWF 1,106.44756	RWF 1,153.76038
Saint Helena, Ascension and Tristan da Cunha							
Jamestown	Saint Helena pound 2 = 100 pence SHP	V	USD 1 =	SHP 0.80984	SHP 0.86862	SHP 0.83354	SHP 0.83155
		V	EUR 1 =	SHP 0.85276	SHP 0.86115	SHP 0.86488	SHP 0.88693
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 2.6651	XCD 2.7893	XCD 2.8672
		V, S	EUR 1 =	XCD 2.8609	XCD 2.6935	XCD 2.8191	XCD 2.8978
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 2.6651	XCD 2.7893	XCD 2.8672
		V, S	EUR 1 =	XCD 2.8609	XCD 2.6935	XCD 2.8191	XCD 2.8978
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 2.6651	XCD 2.7893	XCD 2.8672
		V, S	EUR 1 =	XCD 2.8609	XCD 2.6935	XCD 2.8191	XCD 2.8978
Samoa							
Apia	Tala = 100 sene WST	M	WST 1 =	USD 0.37137	USD 0.35619	USD 0.36631	USD 0.37015
		M	WST 1 =	EUR 0.35358	EUR 0.35814	EUR 0.35425	EUR 0.34666
Sao Tome and Principe							
São Tomé	Dobra = 100 cêntimos	B	USD 1 =	STN 23.3986	STN 24.6206	STN 23.6350	STN 23.0069
		S	USD 1 =	STN 23.7496	STN 24.9900	STN 23.9895	STN 23.3520
	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 M	USD 1 =	SAR 3.75	SAR 3.75	SAR 3.75	SAR 3.75
		V, M	EUR 1 =	SAR 3.94893	SAR 3.71775	SAR 3.89100	SAR 3.99975

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		
					October 2022	November 2022	December 2022
Senegal ¹							
Dakar	CFA franc	B	USD 1 =	XOF 621.10	XOF 656.25	XOF 630.00	XOF 612.75
		S	USD 1 =	XOF 628.10	XOF 663.25	XOF 637.00	XOF 619.75
	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 117.5092	RSD 113.0086	RSD 109.8210
		S	USD 1 =	RSD 112.1122	RSD 118.2164	RSD 113.6886	RSD 110.4820
	B	EUR 1 =	RSD 117.1136	RSD 116.9569	RSD 116.9751	RSD 116.9704	
	RSD	S	EUR 1 =	RSD 117.8184	RSD 117.6607	RSD 117.6791	RSD 117.6744
Seychelles							
Victoria	Seychelles rupee = 100 cents	B	USD 1 =	SCR 13.9344	SCR 14.1439	SCR 13.8963	SCR 13.7885
		S	USD 1 =	SCR 14.4945	SCR 14.6145	SCR 14.3899	SCR 14.3471
	B	EUR 1 =	SCR 14.6660	SCR 14.0513	SCR 14.4065	SCR 15.0651	
	SCR	S	EUR 1 =	SCR 15.3796	SCR 14.7329	SCR 15.1505	SCR 15.1756
Sierra Leone ¹							
Freetown	Leone = 100 cents	B	USD 1 =	SLE 14.2462 ³	SLE 17.2604	SLE 18.2353	SLE 18.7408
		S	USD 1 =	SLE 14.4514 ³	SLE 17.4338	SLE 18.4186	SLE 18.9292
	B	EUR 1 =	SLE 14.9589 ³	SLE 17.1256	SLE 18.8841	SLE 19.9883	
	SLE	S	EUR 1 =	SLE 15.1726 ³	SLE 17.2962	SLE 19.0656	SLE 20.1819
Singapore ¹							
Singapore	Singapore dollar = 100 cents	M	USD 1 =	SGD 1.3781	SGD 1.4112	SGD 1.3722	SGD 1.3446
		M	EUR 1 =	SGD 1.4496	SGD 1.4063	SGD 1.4200	SGD 1.4331
	SGD						
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
	B	EUR 100 =	ANG 187.16	ANG 176.93	ANG 184.48	ANG 190.36	
	ANG	S	EUR 100 =	ANG 190.93	ANG 180.49	ANG 188.20	ANG 194.19
Slovakia							
Bratislava	Euro = 100 cent	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
	EUR						
Slovenia							
Ljubljana	Euro = 100 cent	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
	EUR						
Solomon Islands							
Honiara	Solomon Islands dollar = 100 cents	M	SBD 1 =	USD 0.1224	USD 0.1218	USD 0.1214	USD 0.1208
		M	SBD 1 =	EUR 0.11647	EUR 0.12200	EUR 0.11680	EUR 0.11330
	SBD						

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		
					October 2022	November 2022	December 2022
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 18.1763	ZAR 16.7657	ZAR 16.7588
		S	USD 1 =	ZAR 16.5462	ZAR 18.5422	ZAR 17.1326	ZAR 17.1311
	ZAR	B	EUR 1 =	ZAR 16.9056	ZAR 17.8553	ZAR 17.2521	ZAR 17.7552
		S	EUR 1 =	ZAR 17.5219	ZAR 18.4756	ZAR 17.8703	ZAR 18.3982
South Sudan							
Juba	South Sudanese pound = 100 piastres	M	USD 1 =	SSP 543.6821	SSP 615.0725	SSP 646.8113	SSP 668.6672
		M	EUR 1 =	SSP 567.6622	SSP 612.0899	SSP 670.3234	SSP 711.2623
SSP							
Spain							
Madrid	Euro = 100 cent	M	EUR 1 =	USD 1.0530	USD 0.9914	USD 1.0376	USD 1.0666
	EUR						
Sri Lanka							
Colombo	Sri Lanka rupee = 100 cents	B	USD 1 =	LKR 322.6410	LKR 360.6537	LKR 361.2484	LKR 360.4081
		S	USD 1 =	LKR 332.4230	LKR 371.2103	LKR 371.7222	LKR 371.6068
	LKR	B	EUR 1 =	LKR 336.5339	LKR 356.3481	LKR 371.1079	LKR 382.4055
		S	EUR 1 =	LKR 349.6294	LKR 371.4353	LKR 386.4056	LKR 397.9840
Sudan							
Khartoum	Sudanese pound = 100 piastres	B	USD 1 =	SDG 550.4849	SDG 576.4753	SDG 575.9770	SDG 576.9735
		S	USD 1 =	SDG 555.4137	SDG 582.8388	SDG 582.3350	SDG 583.3425
	SDG	B	EUR 1 =	SDG 576.4179	SDG 572.9021	SDG 595.1813	SDG 616.5476
		S	EUR 1 =	SDG 581.9707	SDG 580.0994	SDG 602.6585	SDG 624.2931
Suriname							
Paramaribo	Suriname dollar = 100 cents	B	USD 1 =	SRD 24.865	SRD 29.526	SRD 31.700	SRD 31.765
		S	USD 1 =	SRD 25.202	SRD 29.656	SRD 31.817	SRD 31.853
	SRD	B	EUR 1 =	SRD 25.760	SRD 28.771	SRD 31.985	SRD 33.231
		S	EUR 1 =	SRD 26.367	SRD 29.076	SRD 32.597	SRD 33.890
Sweden							
Stockholm	Swedish krona = 100 öre	B	USD 1 =	SEK 10.0721	SEK 10.9394	SEK 10.5067	SEK 10.4223
		S	USD 1 =	SEK 10.1771	SEK 11.0444	SEK 10.6117	SEK 10.5273
	SEK	B	EUR 1 =	SEK 10.6048	SEK 10.8448	SEK 10.8691	SEK 11.0857
		S	EUR 1 =	SEK 10.7198	SEK 10.9598	SEK 10.9841	SEK 11.2007

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		
					October 2022	November 2022	December 2022
Switzerland							
Berne	Swiss franc = 100 rappen/centimes CHF	B	USD 1 =	CHF 0.9550	CHF 0.9992	CHF 0.9506	CHF 0.9233
		B	EUR 1 =	CHF 1.0022	CHF 0.9936	CHF 0.9848	CHF 0.9839
Syrian Arab Republic ¹							
Damascus	Syrian pound = 100 piastres SYP	2 B	USD 1 =	SYP 2,791.67	SYP 3,000.00	SYP 3,000.00	SYP 3,000.00
		2 B	USD 1 =	SYP 2,819.58	SYP 3,030.00	SYP 3,030.00	SYP 3,030.00
		2 B	EUR 1 =	SYP 2,924.92	SYP 2,988.00	SYP 3,108.00	SYP 3,193.00
		2 B	EUR 1 =	SYP 2,954.17	SYP 3,017.88	SYP 3,139.08	SYP 3,224.93
Tajikistan							
Dushanbe	Somoni = 100 diram TJS	M	USD 1 =	TJS 11.0237	TJS 10.2148	TJS 10.2100	TJS 10.2024
		M	EUR 1 =	TJS 11.6340	TJS 10.1678	TJS 10.5480	TJS 10.8911
Tanzania, United Republic of							
Dodoma Seat of Government: Dar es Salaam	Tanzania shilling = 100 cents TZS	B	USD 1 =	TZS 2,292.0223	TZS 2,296.7723	TZS 2,297.0396	TZS 2,297.4258
		S	USD 1 =	TZS 2,314.9425	TZS 2,319.7400	TZS 2,320.0100	TZS 2,320.4000
		B	EUR 1 =	TZS 2,411.5148	TZS 2,283.2213	TZS 2,380.8815	TZS 2,453.1912
		S	EUR 1 =	TZS 2,436.4017	TZS 2,306.9814	TZS 2,405.6184	TZS 2,478.6512
Thailand							
Bangkok	Thai baht = 100 satang THB	B	USD 1 =	THB 34.9309	THB 37.8631	THB 35.2097	THB 34.3913
		S	USD 1 =	THB 35.2606	THB 38.1937	THB 35.5352	THB 34.7335
		B	EUR 1 =	THB 36.5572	THB 37.4584	THB 36.2274	THB 36.4494
		S	EUR 1 =	THB 37.2970	THB 38.2034	THB 36.9600	THB 37.2053
Togo ¹							
Lomé	CFA franc XOF	B	USD 1 =	XOF 621.10	XOF 656.25	XOF 630.00	XOF 612.75
		S	USD 1 =	XOF 628.10	XOF 663.25	XOF 637.00	XOF 619.75
		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 0.4136	USD 0.4235	USD 0.4274
		M	TOP 1 =	EUR 0.4063	EUR 0.4142	EUR 0.4089	EUR 0.3993
Trinidad and Tobago							
Port-of-Spain	Trinidad and Tobago dollar = 100 cents TTD	B	USD 1 =	TTD 6.7071	TTD 6.6854	TTD 6.6700	TTD 6.7001
		S	USD 1 =	TTD 6.7696	TTD 6.7748	TTD 6.7829	TTD 6.7828
		B	EUR 1 =	TTD 7.0698	TTD 6.6574	TTD 6.9916	TTD 7.1154
		S	EUR 1 =	TTD 7.5865	TTD 7.1678	TTD 7.4006	TTD 7.7374

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		
					October 2022	November 2022	December 2022
Tunisia							
Tunis	Tunisian dinar = 1,000 millimes TND	B	USD 1 =	TND 3.0727	TND 3.2286	TND 3.1252	TND 3.0755
		S	USD 1 =	TND 3.0757	TND 3.2319	TND 3.1284	TND 3.0785
		B	EUR 1 =	TND 3.2295	TND 3.1935	TND 3.2430	TND 3.2791
		S	EUR 1 =	TND 3.2327	TND 3.1966	TND 3.2463	TND 3.2823
Turkey							
Ankara	Turkish lira = 100 kuruş TRY	B	USD 1 =	TRY 16.5529	TRY 18.5880	TRY 18.6140	TRY 18.6966
		S	USD 1 =	TRY 16.5827	TRY 18.6215	TRY 18.6475	TRY 18.7303
		B	EUR 1 =	TRY 17.4960	TRY 18.6837	TRY 19.3116	TRY 19.8816
		S	EUR 1 =	TRY 17.5275	TRY 18.7174	TRY 19.3464	TRY 19.9175
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 3.4871	TMT 3.6278	TMT 3.7300
Uganda							
Kampala	Uganda shilling UGX	B	USD 1 =	UGX 3,706.26	UGX 3,800.22	UGX 3,733.33	UGX 3,708.63
		S	USD 1 =	UGX 3,716.26	UGX 3,810.22	UGX 3,743.33	UGX 3,718.63
		B	EUR 1 =	UGX 3,882.75	UGX 3,799.46	UGX 3,866.98	UGX 3,948.95
		S	EUR 1 =	UGX 3,893.24	UGX 3,809.46	UGX 3,877.34	UGX 3,959.60
Ukraine							
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 36.4095	UAH 37.9344	UAH 38.9510
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, M	EUR 1 =	AED 3.8561	AED 3.6409	AED 3.8106	AED 3.9171
United Kingdom ¹							
London	Pound sterling = 100 pence GBP	M	GBP 1 =	USD 1.2362	USD 1.1514	USD 1.1912	USD 1.2039
		M	EUR 1 =	GBP 0.8548	GBP 0.8585	GBP 0.8646	GBP 0.8868
United States							
Washington	US dollar = 100 cents USD	M	EUR 1 =	USD 1.05281	USD 0.9883	USD 1.0405	USD 1.0702
		M	GBP 1 =	USD 1.23635	USD 1.1469	USD 1.2056	USD 1.2097

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)

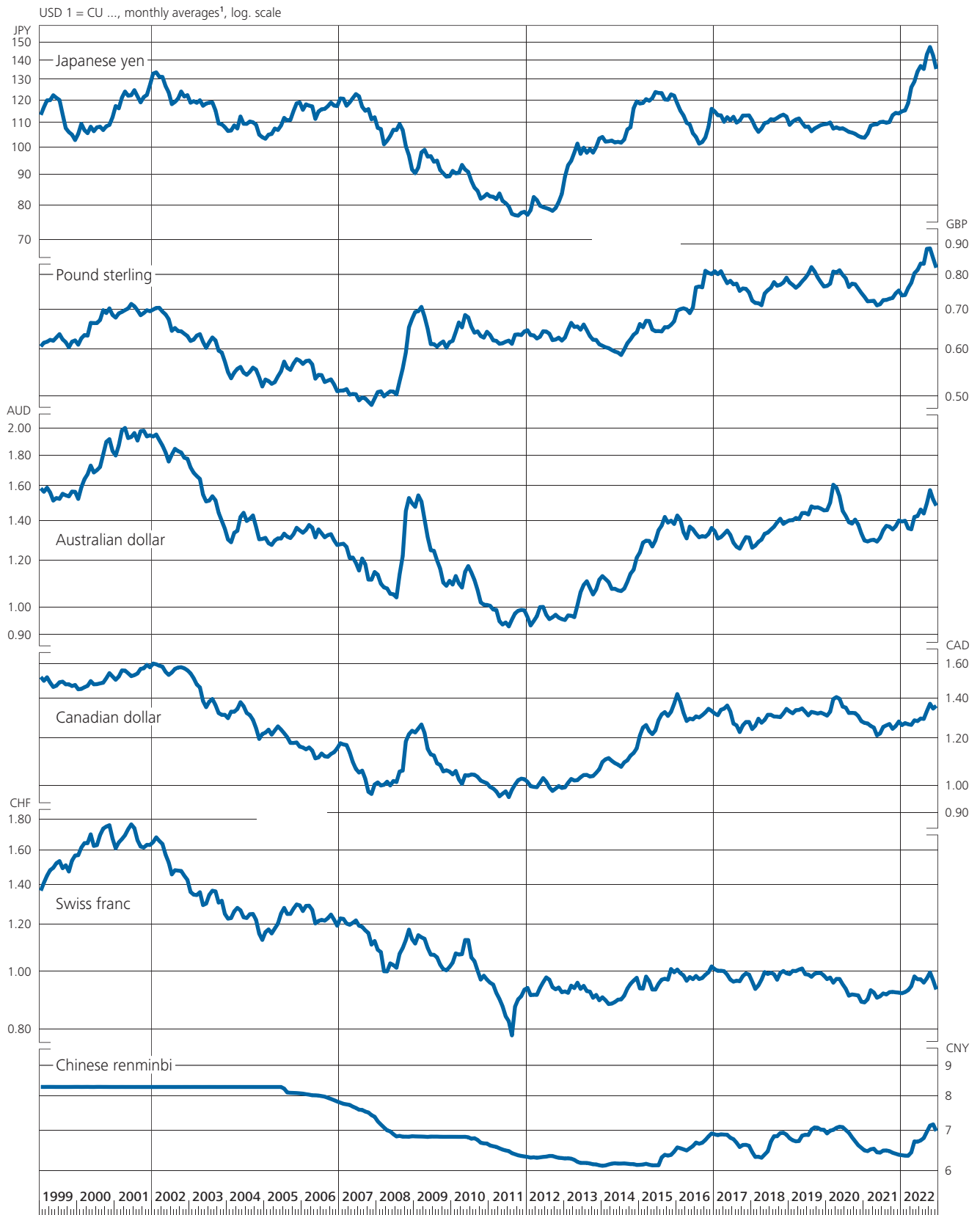
Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2022	Rate at end of month		
					October 2022	November 2022	December 2022
Uruguay							
Montevideo	Uruguayan peso = 100 centésimos UYU	M	USD 1 =	UYU 41.126	UYU 40.608	UYU 39.392	UYU 40.071
		M	EUR 1 =	UYU 43.3572	UYU 40.1309	UYU 40.9106	UYU 42.8780
Uzbekistan							
Tashkent	Uzbekistan sum = 100 tiyin UZS	M	USD 1 =	UZS 11,046.36	UZS 11,180.48	UZS 11,212.97	UZS 11,225.46
		M	EUR 1 =	UZS 11,628.35	UZS 11,129.05	UZS 11,622.24	UZS 11,961.85
Vanuatu							
Port Vila	Vatu VUV	B	USD 1 =	VUV 114.46	VUV 119.70	VUV 116.58	VUV 115.64
		S	USD 1 =	VUV 121.75	VUV 127.31	VUV 124.00	VUV 123.00
		B	EUR 1 =	VUV 121.15	VUV 120.23	VUV 121.35	VUV 123.67
		S	EUR 1 =	VUV 126.04	VUV 125.09	VUV 126.25	VUV 128.66
Venezuela, Bolivarian Republic of ¹							
Caracas	Bolívar = 100 céntimos VES	B	USD 1 =	VES 7.269381	VES 8.570321	VES 11.051203	VES 17.445278
		S	USD 1 =	VES 7.287600	VES 8.591800	VES 11.078900	VES 17.489000
		B	EUR 1 =	VES 7.602909	VES 8.522327	VES 11.472917	VES 18.647257
		S	EUR 1 =	VES 7.621964	VES 8.543686	VES 11.501671	VES 18.693992
Viet Nam							
Hanoi	Dong = 10 hào = 100 xu VND	B	USD 1 =	VND 23,307	VND 24,599	VND 24,520	VND 23,410
		S	USD 1 =	VND 23,590	VND 24,879	VND 24,800	VND 23,730
		B	EUR 1 =	VND 24,239.45	VND 24,335.21	VND 25,065.04	VND 24,718.46
		S	EUR 1 =	VND 25,356.99	VND 25,438.51	VND 26,212.40	VND 25,841.35
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 16.1466	ZMW 17.0371	ZMW 18.0507
		S	USD 1 =	ZMW 17.0644	ZMW 16.1953	ZMW 17.0846	ZMW 18.0970
		B	EUR 1 =	ZMW 17.8910	ZMW 16.0045	ZMW 17.6607	ZMW 19.2728
		S	EUR 1 =	ZMW 17.9480	ZMW 16.0544	ZMW 17.7150	ZMW 19.3294
Zimbabwe ¹							
Harare	Zimbabwe dollar = 100 cents ZWL	2 M	USD 1 =	ZWL 395.12206 ³	ZWL 632.13710	ZWL 654.86510	ZWL 671.44660
		2 M	EUR 1 =	ZWL 407.97590 ³	ZWL 628.85185	ZWL 677.59088	ZWL 715.49550
		4 M	USD 1 =	ZWL 532.13706 ⁵	ZWL 632.77030	ZWL 654.92840	ZWL 684.33390
		4 M	EUR 1 =	ZWL 545.09904 ⁵	ZWL 629.35845	ZWL 677.72245	ZWL 729.16265

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 Auction rate.

³ Calculated using the official rates (January to April 2022) and the auction rates (since May 2022). ⁴ Interbank market rate. ⁵ 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 Jan.	1.44080	1.18721	9.30960	150.535	1.050300	1.84135	1.28080	8.82924	12.27940	12.0514
Feb.	1.43927	1.18742	9.30691	152.894	1.033590	1.82572	1.30405	8.82979	12.35050	11.9590
Mar.	1.41721	1.20871	9.29731	156.885	1.029650	1.78214	1.33650	8.98949	12.08160	12.3636
Apr.	1.43599	1.18853	9.29861	156.451	1.032190	1.76411	1.30596	8.80375	11.82980	12.0400
May	1.44467	1.18435	9.21175	157.758	1.022770	1.75160	1.29738	8.80716	12.07480	12.0046
June	1.42642	1.20029	9.21311	157.620	1.028940	1.76791	1.31645	8.92554	12.20900	12.1393
July	1.42877	1.20156	9.22526	156.450	1.022890	1.78053	1.29325	8.93711	12.54490	12.2277
Aug.	1.42426	1.20353	9.20073	156.483	1.034390	1.79698	1.30170	8.94943	12.34820	12.2378
Sep.	1.40887	1.21675	9.10606	157.667	1.048660	1.80099	1.31934	9.04781	12.36820	12.3855
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
2022 Nov. 23	1.30886	1.26766	9.35716	.	1.096430	1.75282	1.24499	9.42756	13.14040	13.9015
28	1.31711	1.25883	9.48308	183.158	1.089110	1.77191	1.24171	9.36154	13.04650	13.7205
29	1.31425	1.26785	9.41646	182.484	1.093070	1.78449	1.24821	9.42854	13.09850	13.8052
30	1.31484	1.26719	9.39038	182.500	1.094700	1.77609	1.24864	9.42356	13.00750	13.8837
Dec. 1	1.32086	1.26349	9.34641	179.966	1.085650	1.77430	1.24940	9.39699	12.95020	13.8629
2	1.32836	1.26054	9.35506	179.992	1.081900	1.78903	1.23982	9.37506	12.93500	13.7048
5	1.33016	1.25641	9.26166	179.146	1.083230	1.79997	1.24310	9.34387	12.98700	13.7232
6	1.32609	1.26102	9.27480	181.011	1.085620	1.80998	1.24685	9.37946	13.16610	13.7876
7	1.32372	1.25721	9.23984	181.707	1.089880	1.80555	1.24774	9.35139	13.23280	13.7929
8	1.32531	1.25992	9.23796	180.998	1.088690	1.80004	1.24798	9.37154	13.21410	13.7393
9	1.32897	1.25861	9.23549	181.909	1.083540	1.81138	1.23933	9.36137	13.25880	13.7060
12	1.32821	1.25753	9.26355	181.659	1.081910	1.81407	1.23769	9.35340	13.27310	13.7446
13	1.32650	1.25794	9.25669	182.792	1.079200	1.79701	1.24300	9.35795	13.16800	13.6652
14	1.33390	1.25260	9.26990	180.783	1.078330	1.80890	1.23792	9.31836	12.97950	13.6156
15	1.33081	1.25300	9.26801	180.152	1.081170	1.81523	1.23480	9.32079	13.03280	13.6318
16	1.32993	1.25241	9.27652	183.039	1.090910	1.82028	1.23624	9.31524	13.12940	13.7616
19	1.32938	1.25437	9.28212	181.008	1.090770	1.81500	1.23891	9.33027	13.17400	13.7652
20	1.33347	1.25811	9.30233	177.498	1.096650	1.81632	1.23486	9.35883	13.22240	13.8766
21	1.33201	1.25236	9.28066	175.465	1.100470	1.81313	1.23377	9.31498	13.06330	13.8845
22	1.33143	1.25217	9.29454	175.456	1.105470	1.81820	1.23430	9.31203	13.03790	13.7740
23	1.33084	1.25291	9.29731	176.537	1.102790	1.81035	1.23808	.	13.08650	13.9407
2023 Jan. 3	1.32976	1.26104	9.16582	.	1.114360	1.81619	1.24951	9.37831	13.27620	14.0145
4	1.33473	1.25930	9.19786	174.796	1.107060	1.80296	1.23816	9.36593	13.52230	14.0015
5	1.33342	1.25782	9.16683	176.078	1.109100	1.80865	1.23594	9.35489	13.48990	14.0129
6	1.32629	1.26313	9.10233	177.245	1.119370	1.78863	1.24638	9.39399	13.65070	.
9	1.33904	1.25190	9.07738	.	1.102680	1.79110	1.23720	9.31090	13.28370	14.0283
10	1.34141	1.25096	9.09984	176.798	1.103950	1.80030	1.23671	9.30397	13.35840	13.9166
11	1.34146	1.24822	9.08505	177.555	1.106080	1.80091	1.24152	9.28359	13.40330	14.0231
12	1.34421	1.24788	9.08323	177.302	1.105030	1.79829	1.25314	9.28229	13.38070	14.1113
13	1.34841	1.24691	9.05362	174.255	1.107610	1.80768	1.25402	9.27541	13.33510	14.0086

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 2021

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 ² 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 ³		Brunei Darussalam			
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 ³ 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 ⁸ Lebanon Maldives Trinidad and Tobago	Croatia ³ North Macedonia	Singapore		Algeria ⁸ Bangladesh ⁸ Bolivia, Plurinational State of ⁸ Gambia ^{8,11} Nigeria ⁸ Papua New Guinea ⁸ Suriname ⁸ Tajikistan ^{8,9} Tanzania, United Republic of ⁸	Guatemala ⁸ Serbia	Azerbaijan ⁸ Egypt ^{8,9,10} Mongolia ⁹ Sudan ^{8,10}
Crawling peg	Honduras Nicaragua		Botswana				
Pegged exchange rate within horizontal bands			Morocco				

Source: Annual Report on Exchange Arrangements and Exchange Restrictions 2021, 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 IMF-member since 16 October 2020. ³ The member parti-

cipates in ERM II. 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 2021

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 Burundi ⁸ China ⁵ Congo, Democratic Republic of the ^{8,10,11} Ethiopia ^{8,10,11} Guinea ^{8,10,11} Rwanda ⁸	Costa Rica Dominican Republic ⁸ Ghana ⁸ Philippines ⁸ Romania ¹² Uzbekistan ⁸	Argentina ⁸ Lao People's Democratic Republic ⁸ Malawi ⁸ Mauritania ⁸ Mozambique ^{8,9} Solomon Islands ^{5,10,11} South Sudan ⁸ Switzerland ¹² Tunisia ^{9,12} Zambia ⁸
Other managed arrangement			Kuwait Syrian Arab Republic		Liberia ^{10,11} Myanmar Sierra Leone Zimbabwe	Kenya	Haiti ^{8,11} Kyrgyzstan Tonga Vanuatu Venezuela, Bolivarian Republic of
Floating					Angola Belarus Madagascar Yemen ¹¹	Albania Armenia Brazil ¹³ Colombia Georgia Hungary Iceland India ¹³ Indonesia ¹³ Israel Jamaica Kazakhstan Korea, Republic of Moldova, Republic of New Zealand Paraguay Peru ¹⁰ Seychelles Sri Lanka ¹³ South Africa Thailand ¹³ Turkey Uganda Ukraine Uruguay	Malaysia Mauritius Pakistan ⁹
Free floating						Australia Canada Chile Czechia 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 central bank is in transition towards inflation targeting. ¹⁰ The exchange rate arrangement was reclassified twice during this reporting period. ¹¹ The exchange rate arrangement or monetary policy framework was reclassified retroactively, overriding a previously

published classification. ¹² The country maintains a de facto exchange rate anchor to the euro. 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				GYP	Guyana dollar	Guyana
ANG	Netherlands Antillean guilder	Curaçao Sint Maarten (southern part)	DJF	Djibouti franc	Djibouti	HKD	Hong Kong dollar	Hong Kong
AOA	Kwanza	Angola	DKK	Danish krone	Denmark Faroe Islands Greenland	HNL	Lempira	Honduras
ARS	Argentine peso	Argentina	DOP	Dominican peso	Dominican Republic	HRK	Kuna	Croatia ²
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 ² 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)			
CDF	Congo franc	Congo, Democratic Republic of the				LAK	Kip	Lao People's Democratic Republic
CHF	Swiss franc	Switzerland Liechtenstein	GBP	Pound sterling	United Kingdom Guernsey Isle of Man Jersey	LBP	Lebanese pound	Lebanon
CLP	Chilean peso	Chile				LKR	Sri Lanka rupee	Sri Lanka
CNY	Chinese renminbi	China	GEL	Lari	Georgia	LRD	Liberian dollar	Liberia
COP	Colombian peso	Colombia	GHS	Ghana cedi	Ghana	LSL	Loti	Lesotho
CRC	Costa Rican colón	Costa Rica	GIP	Gibraltar pound	Gibraltar	LYD	Libyan dinar	Libya

* Extracted and compiled from ISO communications. ¹ See Explanatory notes on individual countries, pp. 53 ff. ² Accession to the euro area on 1 January 2023, see p 7 (Table I 1).

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 14:15 CET. Only one reference rate, i. e. the middle rate, is established by this procedure. The ECB changed the publication time of the euro foreign exchange reference rates from around 14:30 CET to around 16:00 CET with effect from 1 July 2016. 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/Frameworkfortheeuroforeignexchangereference-rates.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 Classification (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?184ad85cc2c5ccfed05680706893cde>).

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

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

Figures in %

As of January 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	2007 to 2009	2010 to 2012	2013 to 2015	2016 to 2018	1995 to 1997	1998 to 2000	2007 to 2009	2010 to 2012	2013 to 2015	2016 to 2018
	Period of use of weights ¹											
	Up to end of 1997	1998 to 2000 ²	2007 to 2009	2010 to 2012	2013 to 2015	From 2016	Up to end of 1997	1998 to 2000 ²	2007 to 2009	2010 to 2012	2013 to 2015	From 2016
Broad EER group							100	100	100	100	100	100
Extended EER group	100	100	100	100	100	100						
Australia	1.01	0.91	1.05	1.15	1.05	1.02	0.82	0.75	0.83	0.90	0.82	0.81
Bulgaria	0.27	0.31	0.63	0.60	0.63	0.68	0.22	0.26	0.50	0.46	0.50	0.54
Canada	1.86	1.96	1.91	1.87	1.81	1.77	1.51	1.62	1.51	1.46	1.43	1.40
China	4.16	4.89	13.76	16.79	17.58	17.65	3.39	4.03	10.90	13.11	13.82	13.94
Czechia	2.39	2.54	4.39	4.38	4.26	4.60	1.95	2.09	3.48	3.42	3.35	3.64
Denmark	3.16	2.84	2.94	2.53	2.44	2.37	2.58	2.34	2.33	1.97	1.92	1.88
Hong Kong	3.68	3.35	2.64	2.61	2.58	2.29	3.00	2.76	2.09	2.03	2.03	1.81
Hungary	1.63	2.19	2.89	2.64	2.71	2.84	1.33	1.80	2.29	2.06	2.13	2.25
Japan	10.07	9.10	6.27	5.89	4.83	4.89	8.22	7.50	4.96	4.60	3.80	3.86
Korea, Republic of	2.89	2.58	3.32	3.23	3.09	3.00	2.35	2.13	2.63	2.52	2.43	2.37
Norway	1.70	1.60	1.75	1.60	1.46	1.28	1.39	1.32	1.38	1.25	1.15	1.01
Poland	2.61	2.97	5.57	5.75	5.98	6.53	2.13	2.45	4.41	4.49	4.70	5.16
Romania	0.72	0.80	1.84	1.88	2.10	2.34	0.58	0.66	1.46	1.47	1.65	1.85
Singapore	2.42	2.08	2.09	2.23	2.09	2.19	1.97	1.71	1.65	1.74	1.64	1.73
Sweden	5.14	4.91	4.48	4.32	4.12	3.94	4.19	4.05	3.55	3.38	3.24	3.11
Switzerland	9.75	8.63	8.20	8.37	7.85	7.40	7.95	7.11	6.50	6.54	6.17	5.84
United Kingdom	23.03	22.48	17.18	15.60	15.82	15.17	18.78	18.53	13.61	12.18	12.43	11.99
United States	23.51	25.86	19.09	18.56	19.60	20.04	19.18	21.32	15.12	14.49	15.41	15.83
Additional countries in the broad EER group												
Algeria							0.37	0.32	0.40	0.40	0.40	0.30
Argentina							0.54	0.50	0.35	0.44	0.36	0.34
Brazil							1.29	1.25	1.44	1.59	1.39	1.16
Chile							0.34	0.31	0.41	0.40	0.32	0.27
China (Taiwan)							1.83	1.89	1.27	1.28	1.16	1.23
Colombia							0.21	0.17	0.19	0.20	0.20	0.18
Iceland							0.07	0.08	0.11	0.09	0.09	0.11
India							1.14	1.17	2.29	2.66	2.66	2.86
Indonesia							0.81	0.61	0.54	0.64	0.62	0.62
Israel							1.05	1.05	0.75	0.79	0.84	0.91
Malaysia							1.15	1.02	0.96	0.96	0.92	0.88
Mexico							0.76	1.07	1.04	1.13	1.21	1.33
Morocco							0.54	0.60	0.66	0.64	0.66	0.72
New Zealand							0.17	0.14	0.14	0.14	0.15	0.15
Peru							0.13	0.10	0.13	0.15	0.15	0.16
Philippines							0.36	0.46	0.34	0.33	0.39	0.42
Russian Federation							2.32	1.76	3.14	3.37	3.10	2.57
Saudi Arabia							0.47	0.42	0.67	0.68	0.80	0.76
South Africa							0.89	0.82	0.89	0.85	0.75	0.72
Thailand							1.13	0.89	0.96	1.00	1.06	1.17
Turkey							2.01	2.11	2.60	2.67	2.69	2.60
Ukraine							0.43	0.36	0.67	0.60	0.44	0.41
United Arab Emirates							0.45	0.47	0.85	0.92	1.02	1.11

^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.

(see Table I. 1., p. 7) as well as Canada, Denmark, Japan, 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 and its abbreviation, 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 2021 (see Table VI., pp. 44-45) is based on the IMF's "Annual Report on Exchange Arrangements and Exchange Restrictions 2021", 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, or 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.

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 (UEMOA = Union Économique et Monétaire Ouest Africaine). The responsible monetary authority is the Banque Centrale des Etats de l'Afrique de l'Ouest, whose CFA franc (F.CFA = Franc de la Communauté Financière Africaine) 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 (CEMAC = Communauté Économique et Monétaire de l'Afrique Centrale). The responsible monetary authority is the Banque des Etats de l'Afrique Centrale, whose CFA franc (F.CFA = Franc de la Coopération Financière en Afrique Centrale) 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

In addition to the existing official exchange rate of USD 1 = CUP 24, which is to be used only for government sector transactions, a new official exchange rate of USD 1 = CUP 120 was introduced with effect from 4 August 2022.

This is to be applied in the government foreign exchange bureaus (CADECA – casas de cambio) as well as for all transactions by households and enterprises.

It is understood that there is a considerably different, black market rate alongside the official, published exchange rates. According to press reports, this rate was around 170 Cuban pesos at the beginning of January 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.

Ghana

In December, the Ghana cedi appreciated strongly. Calculated using the exchange rates from the end of November and the end of December 2022, the Ghana cedi appreciated by 52.8% against the US dollar and by 48.5% against the euro.

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 ex-

change 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.

Iraq

The official exchange rate applies only to foreign exchange transactions between the central bank and domestic and foreign commercial banks, public sector institutions, money transfer institutions and foreign exchange bureaux.

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 in Lebanon has resulted in a sharp depreciation of the Lebanese pound in the parallel market that has formed in the meantime. This has prompted Lebanon’s central bank to introduce various measures since mid-2020 to contain the resulting foreign currency shortage.

Alongside the existing official exchange rate to the US dollar (LBP 1,507.50), it introduced a bank rate of LBP 3,900 per US dollar. In addition, commercial banks and foreign exchange dealers operating in Lebanon are required to conduct transactions in foreign currency via the central bank’s own Sayrafa electronic platform. According to the

Lebanese central bank, the exchange rate formed here should reflect the current market situation.

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

Official exchange rate

For specific imports, for example, wheat, medication, medical supplies, 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 at banks in Lebanon.

Sayrafa market rate

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

It is understood that there is a considerably different, black market rate alongside the official, published exchange rates. According to press reports, this rate was around 43,000 Lebanese pound at the beginning of January 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 March 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

On 2 January 2023, the reported bank (buying/selling) rates used for credit transfers were changed to USD 1 = SYP 4,500.00 / 4,545.00 and EUR 1 = SYP 4,815.00 / 4,863.15. Based on these rates and the rates as at the end of December 2022 (see p. 38), the Syrian pound has depreciated by 33.3% against the US dollar and by 33.7% against the euro.

At the same time, the official rates that were still published were changed from USD 1 = SYP 2,500.00 / 2,525.00 to

USD 1 = SYP 3,000.00 / 3,030.00. This represents a 16.7% depreciation of the Syrian pound against the US dollar. We do not have any information on how these rates are applied.

It is also understood that there are significantly different black market rates alongside these rates.

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.

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

With effect from 1 October 2021, a new ISO currency code – VED – was introduced alongside the existing code VES. However, this new code is only for internal purposes.

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

With effect from 9 May 2022, a multiple exchange rate system was established, with interbank market rates introduced alongside the official exchange rates (now auction rates). We do not have any information on the exchange rate application.

It is also understood that there are significantly different black market rates alongside these rates.