



Exchange rate statistics

Updated issue

Statistical Series

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Abbreviations and symbols

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	Data unknown, not to be published or not meaningful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

Discrepancies in the totals are due to rounding.

I. Euro area and exchange rate stability convergence criterion

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

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

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

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

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

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

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

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

1. End-of-month and daily rates

EUR 1 = CU ...

Period		EU member countries						
		Bulgaria	Czechia	Denmark	Hungary	Poland	Romania	Sweden
		Bulgarian lev BGN	Czech koruna CZK	Danish krone DKK	Hungarian forint HUF	Polish zloty PLN	Romanian leu RON	Swedish krona SEK
2023	Oct.	1.9558	24.558	7.4647	382.13	4.4405	4.9659	11.8275
	Nov.	1.9558	24.292	7.4548	380.75	4.3490	4.9718	11.4308
	Dec.	1.9558	24.724	7.4529	382.80	4.3395	4.9756	11.0960
2024	Jan.	1.9558	24.891	7.4550	384.90	4.3330	4.9758	11.2682
	Feb.	1.9558	25.363	7.4540	393.48	4.3208	4.9706	11.2150
	Mar.	1.9558	25.305	7.4580	395.26	4.3123	4.9735	11.5250
	Apr.	1.9558	25.140	7.4583	390.68	4.3178	4.9759	11.7530
	May	1.9558	24.709	7.4588	388.83	4.2645	4.9767	11.4210
	June	1.9558	25.025	7.4575	395.10	4.3090	4.9773	11.3595
	July	1.9558	25.457	7.4621	395.78	4.2908	4.9749	11.6125
	Aug.	1.9558	25.031	7.4589	392.53	4.2763	4.9768	11.3355
	Sep.	1.9558	25.184	7.4560	396.88	4.2788	4.9753	11.3000
	Oct.	1.9558	25.327	7.4601	408.28	4.3508	4.9749	11.6308
2024	Oct. 28	1.9558	25.348	7.4585	404.83	4.3500	4.9738	11.4710
	29	1.9558	25.372	7.4588	405.23	4.3480	4.9749	11.5170
	30	1.9558	25.377	7.4606	408.38	4.3463	4.9747	11.5660
	31	1.9558	25.327	7.4601	408.28	4.3508	4.9749	11.6308
	Nov. 1	1.9558	25.330	7.4562	407.75	4.3543	4.9745	11.6115
	4	1.9558	25.288	7.4578	407.83	4.3423	4.9750	11.6445
	5	1.9558	25.343	7.4586	409.25	4.3580	4.9756	11.6665
	6	1.9558	25.339	7.4570	410.08	4.3493	4.9755	11.6515
	7	1.9558	25.262	7.4574	404.58	4.3253	4.9759	11.5990
	8	1.9558	25.208	7.4573	406.68	4.3255	4.9748	11.5900
	11	1.9558	25.339	7.4574	409.63	4.3440	4.9749	11.5920
	12	1.9558	25.390	7.4591	410.70	4.3503	4.9763	11.5420
	13	1.9558	25.295	7.4598	408.70	4.3425	4.9764	11.5895
	14	1.9558	25.305	7.4593	407.05	4.3383	4.9764	11.6030
	15	1.9558	25.286	7.4590	407.23	4.3200	4.9768	11.5905
	18	1.9558	25.282	7.4591	408.70	4.3278	4.9765	11.6000
	19	1.9558	25.284	7.4591	407.45	4.3303	4.9769	11.5840
	20	1.9558	25.286	7.4592	409.60	4.3308	4.9765	11.6050
	21	1.9558	25.346	7.4588	410.50	4.3418	4.9770	11.6070

Period		Other European and non-European countries						
		Australia	Brazil	Canada	China	Hong Kong	Iceland	India
		Australian dollar AUD	Brazilian real BRL	Canadian dollar CAD	Yuan (renminbi) CNY	Hong Kong dollar HKD	Icelandic krona ISK	Indian rupee INR
2023	Oct.	1.6739	5.3743	1.4712	7.7686	8.3079	147.50	88.4195
	Nov.	1.6542	5.3984	1.4870	7.8008	8.5384	150.70	91.1143
	Dec.	1.6263	5.3618	1.4642	7.8509	8.6314	150.50	91.9045
2024	Jan.	1.6468	5.3749	1.4558	7.7789	8.4734	148.30	90.0010
	Feb.	1.6684	5.4054	1.4719	7.7888	8.4735	149.30	89.7458
	Mar.	1.6607	5.4032	1.4672	7.8144	8.4594	150.30	90.1365
	Apr.	1.6423	5.4928	1.4672	7.7609	8.3817	150.30	89.4155
	May	1.6315	5.6418	1.4804	7.8577	8.4838	149.10	90.5255
	June	1.6079	5.8915	1.4670	7.7748	8.3594	148.90	89.2495
	July	1.6635	6.0874	1.4977	7.8194	8.4589	149.90	90.6250
	Aug.	1.6301	6.2155	1.4941	7.8585	8.6455	152.90	92.9485
	Sep.	1.6166	6.0504	1.5133	7.8511	8.6933	150.70	93.8130
	Oct.	1.6559	6.2635	1.5134	7.7436	8.4598	148.90	91.4930
2024	Oct. 28	1.6372	6.1550	1.5030	7.7099	8.4072	149.10	90.9580
	29	1.6423	6.1613	1.4981	7.6895	8.3716	148.70	90.5700
	30	1.6460	6.2564	1.5072	7.7054	8.4050	148.50	90.9430
	31	1.6559	6.2635	1.5134	7.7436	8.4598	148.90	91.4930
	Nov. 1	1.6530	6.2813	1.5144	7.7403	8.4660	149.10	91.4955
	4	1.6516	6.3344	1.5155	7.7363	8.4761	148.90	91.7180
	5	1.6452	6.3039	1.5128	7.7405	8.4687	148.90	91.6565
	6	1.6301	6.2127	1.4893	7.6779	8.3167	148.30	90.1810
	7	1.6196	6.0988	1.4960	7.7159	8.3818	148.30	90.9355
	8	1.6259	6.2034	1.4983	7.7233	8.3745	148.70	90.8900
	11	1.6186	6.1877	1.4848	7.6719	8.2812	148.30	89.8935
	12	1.6206	6.1131	1.4799	7.6781	8.2586	147.90	89.5888
	13	1.6299	6.1031	1.4840	7.6626	8.2682	147.90	89.6915
	14	1.6285	6.1122	1.4759	7.6267	8.1975	146.30	88.9645
	15	1.6345	6.1335	1.4861	7.6492	8.2385	145.70	89.3465
	18	1.6352	6.1030	1.4873	7.6442	8.2140	144.30	89.0765
	19	1.6264	6.1212	1.4833	7.6578	8.2335	145.30	89.2935
	20	1.6225	6.0975	1.4767	7.6528	8.2208	145.50	89.1025
	21	1.6141	6.1277	1.4700	7.6204	8.1921	145.90	88.9158

* See Explanatory notes, p. 48.

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

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

EUR 1 = CU ...

Other European and non-European countries (cont'd)								
	Indonesia	Israel	Japan	Korea, Republic of	Malaysia	Mexico	New Zealand	Norway
Period	Indonesian rupiah IDR	New shekel ILS	Japanese yen JPY	South Korean won KRW	Malaysian ringgit MYR	Mexican peso MXN	New Zealand dollar NZD	Norwegian krone NOK
2023 Oct.	16,868.28	4.2756	160.30	1,434.66	5.0594	19.1551	1.8224	11.8735
Nov.	16,981.14	4.0597	161.19	1,418.78	5.0933	19.0235	1.7762	11.7200
Dec.	17,079.71	3.9993	156.33	1,433.66	5.0775	18.7231	1.7504	11.2405
2024 Jan.	17,076.29	3.9431	160.19	1,444.63	5.1259	18.5817	1.7705	11.3510
Feb.	17,038.18	3.8736	162.53	1,447.43	5.1375	18.4969	1.7807	11.4920
Mar.	17,157.87	3.9799	163.45	1,458.67	5.1168	17.9179	1.8092	11.6990
Apr.	17,422.11	4.0172	168.27	1,479.67	5.1130	18.1895	1.8035	11.8150
May	17,641.72	4.0342	170.52	1,501.11	5.1080	18.4387	1.7696	11.3830
June	17,487.21	4.0200	171.94	1,474.86	5.0501	19.5654	1.7601	11.3965
July	17,634.43	4.0822	162.76	1,485.96	4.9749	20.3317	1.8289	11.8175
Aug.	17,180.03	4.0245	161.19	1,478.60	4.7901	21.7581	1.7709	11.6620
Sep.	16,975.88	4.1491	159.82	1,469.11	4.6167	21.9842	1.7616	11.7645
Oct.	17,105.85	4.0441	166.30	1,500.05	4.7652	21.8087	1.8220	11.9385
2024 Oct. 28	17,016.01	4.0327	165.18	1,496.45	4.7177	21.6223	1.8059	11.9120
29	16,993.40	4.0298	165.66	1,496.40	4.7172	21.5719	1.8076	11.8415
30	16,966.73	4.0214	165.91	1,493.02	4.7359	21.8174	1.8099	11.8785
31	17,105.85	4.0441	166.30	1,500.05	4.7652	21.8087	1.8220	11.9385
Nov. 1	17,132.28	4.0681	165.54	1,498.21	4.7660	21.7247	1.8164	11.9600
4	17,190.86	4.0879	165.47	1,497.97	4.7678	21.9187	1.8196	11.9465
5	17,180.21	4.0828	165.93	1,503.71	4.7353	21.9579	1.8169	11.9600
6	16,976.60	4.0115	165.05	1,500.90	4.7095	22.0755	1.7997	11.9090
7	16,889.15	4.0094	165.71	1,495.78	4.7492	21.3897	1.7932	11.7485
8	16,801.68	4.0240	164.18	1,495.41	4.7208	21.5349	1.7970	11.7735
11	16,750.08	3.9832	163.82	1,489.97	4.6971	21.8559	1.7857	11.7865
12	16,770.14	3.9820	163.71	1,492.15	4.7139	21.6428	1.7848	11.7385
13	16,716.39	3.9774	164.71	1,487.40	4.7278	21.7942	1.7941	11.7645
14	16,803.82	3.9374	164.24	1,478.78	4.7193	21.7209	1.7958	11.7590
15	16,810.00	3.9586	164.36	1,476.23	4.7311	21.5697	1.8015	11.6990
18	16,732.73	3.9468	163.74	1,474.49	4.7278	21.5023	1.8062	11.7170
19	16,759.52	3.9611	162.71	1,472.84	4.7315	21.4956	1.7949	11.6595
20	16,790.04	3.9413	164.42	1,474.40	4.7228	21.3036	1.7947	11.6440
21	16,732.97	3.9291	162.53	1,471.60	4.6999	21.4444	1.7924	11.6200

Other European and non-European countries (cont'd)								
	Philippines	Singapore	South Africa	Switzerland	Thailand	Turkey	United Kingdom	United States
Period	Philippine peso PHP	Singapore dollar SGD	South African rand ZAR	Swiss franc CHF	Thai baht THB	Turkish lira TRY	Pound sterling GBP	US dollar USD
2023 Oct.	60.295	1.4525	19.9507	0.9607	38.266	30.0455	0.87366	1.0619
Nov.	60.623	1.4602	20.5703	0.9562	38.494	31.5441	0.86368	1.0931
Dec.	61.283	1.4591	20.3477	0.9260	37.973	32.6531	0.86905	1.1050
2024 Jan.	61.023	1.4517	20.3238	0.9348	38.461	32.8984	0.85435	1.0837
Feb.	60.858	1.4570	20.9007	0.9534	38.909	33.8067	0.85655	1.0826
Mar.	60.797	1.4587	20.5226	0.9766	39.412	34.9487	0.85510	1.0811
Apr.	61.830	1.4593	20.0682	0.9787	39.732	34.7045	0.85478	1.0718
May	63.604	1.4663	20.2927	0.9818	39.925	34.9691	0.85365	1.0852
June	62.560	1.4513	19.4970	0.9634	39.319	35.1868	0.84638	1.0705
July	63.218	1.4491	19.7400	0.9533	38.629	35.9085	0.84380	1.0828
Aug.	62.309	1.4441	19.5358	0.9416	37.541	37.7651	0.84120	1.1087
Sep.	62.740	1.4342	19.2258	0.9439	36.107	38.2693	0.83543	1.1196
Oct.	63.364	1.4377	19.1869	0.9412	36.754	37.2680	0.83753	1.0882
2024 Oct. 28	62.969	1.4302	19.1877	0.9367	36.538	37.1009	0.83290	1.0818
29	62.857	1.4287	19.1063	0.9369	36.400	36.9491	0.83020	1.0774
30	63.010	1.4329	19.1535	0.9393	36.522	37.0855	0.83425	1.0815
31	63.364	1.4377	19.1869	0.9412	36.754	37.2680	0.83753	1.0882
Nov. 1	63.525	1.4392	19.1111	0.9427	36.873	37.3758	0.83998	1.0885
4	63.762	1.4356	19.1248	0.9410	36.736	37.4528	0.84063	1.0904
5	63.553	1.4351	19.0277	0.9402	36.652	37.4292	0.83920	1.0897
6	62.949	1.4281	18.9842	0.9368	36.705	36.6357	0.83223	1.0695
7	63.100	1.4258	18.7328	0.9432	36.798	36.9319	0.83185	1.0785
8	62.850	1.4251	18.8777	0.9393	36.695	37.0104	0.83188	1.0772
11	62.461	1.4197	19.0171	0.9369	36.703	36.5670	0.82680	1.0651
12	62.273	1.4204	19.1584	0.9354	36.942	36.5039	0.82835	1.0617
13	62.327	1.4214	19.1406	0.9379	36.861	36.5216	0.83413	1.0629
14	61.972	1.4175	19.3136	0.9369	36.887	36.1969	0.83158	1.0533
15	62.162	1.4187	19.2353	0.9389	36.861	36.4294	0.83455	1.0583
18	61.929	1.4186	19.0768	0.9364	36.758	36.4467	0.83560	1.0552
19	62.314	1.4163	19.0970	0.9329	36.521	36.5558	0.83638	1.0578
20	62.282	1.4173	19.1266	0.9342	36.581	36.4025	0.83380	1.0562
21	62.116	1.4144	19.0284	0.9294	36.467	36.2958	0.83273	1.0526

* See Explanatory notes, p. 48.

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
2022	1.9558	7.5349	24.566	7.4396	391.29	4.6861	4.9313	10.6296
2023	1.9558	–	24.004	7.4509	381.85	4.5420	4.9467	11.4788
2022 Sep.	1.9558	7.5222	24.576	7.4366	404.19	4.7414	4.9097	10.7840
Oct.	1.9558	7.5298	24.528	7.4389	418.31	4.8040	4.9259	10.9503
Nov.	1.9558	7.5426	24.369	7.4387	406.68	4.6964	4.9142	10.8798
Dec.	1.9558	7.5448	24.269	7.4377	407.68	4.6832	4.9224	10.9859
2023 Jan.	1.9558	–	23.958	7.4383	396.03	4.6974	4.9242	11.2051
Feb.	1.9558	–	23.712	7.4447	384.91	4.7415	4.9087	11.1725
Mar.	1.9558	–	23.683	7.4456	385.01	4.6893	4.9263	11.2276
Apr.	1.9558	–	23.437	7.4518	375.34	4.6320	4.9365	11.3370
May	1.9558	–	23.595	7.4485	372.37	4.5345	4.9477	11.3697
June	1.9558	–	23.695	7.4492	370.60	4.4608	4.9600	11.6766
July	1.9558	–	23.892	7.4508	379.04	4.4431	4.9411	11.6343
Aug.	1.9558	–	24.108	7.4522	385.05	4.4601	4.9411	11.8117
Sep.	1.9558	–	24.380	7.4566	386.43	4.5981	4.9656	11.8417
Oct.	1.9558	–	24.584	7.4604	385.33	4.5124	4.9682	11.6472
Nov.	1.9558	–	24.485	7.4581	379.19	4.4020	4.9703	11.5475
Dec.	1.9558	–	24.478	7.4556	381.80	4.3335	4.9707	11.2028
2024 Jan.	1.9558	–	24.716	7.4572	382.04	4.3648	4.9749	11.2834
Feb.	1.9558	–	25.232	7.4550	388.04	4.3256	4.9746	11.2500
Mar.	1.9558	–	25.292	7.4566	395.09	4.3069	4.9708	11.3054
Apr.	1.9558	–	25.278	7.4596	392.41	4.3026	4.9730	11.5910
May	1.9558	–	24.819	7.4606	387.18	4.2796	4.9754	11.6186
June	1.9558	–	24.779	7.4592	394.76	4.3209	4.9767	11.2851
July	1.9558	–	25.299	7.4606	392.84	4.2817	4.9730	11.5324
Aug.	1.9558	–	25.179	7.4614	394.70	4.2917	4.9766	11.4557
Sep.	1.9558	–	25.099	7.4600	394.86	4.2761	4.9744	11.3577
Oct.	1.9558	–	25.298	7.4593	401.90	4.3170	4.9750	11.4048

Other European and non-European countries								
	Australia	Brazil	Canada	China	Hong Kong	Iceland	India	Indonesia
	Australian dollar AUD	Brazilian real BRL	Canadian dollar CAD	Yuan (renminbi) CNY	Hong Kong dollar HKD	Icelandic krona ISK	Indian rupee INR	Indonesian rupiah IDR
2022	1.5167	5.4399	1.3695	7.0788	8.2451	142.24	82.6864	15,625.25
2023	1.6288	5.4010	1.4595	7.6600	8.4650	149.13	89.3001	16,479.62
2022 Sep.	1.4820	5.1791	1.3187	6.9508	7.7738	140.35	79.4558	14,847.40
Oct.	1.5474	5.1658	1.3477	7.0687	7.7128	141.50	80.9180	15,172.93
Nov.	1.5455	5.3846	1.3708	7.3171	7.9873	146.98	83.3384	15,975.07
Dec.	1.5685	5.5589	1.4379	7.3859	8.2434	150.76	87.3381	16,503.30
2023 Jan.	1.5523	5.6047	1.4474	7.3173	8.4217	154.06	88.1441	16,427.04
Feb.	1.5514	5.5386	1.4400	7.3244	8.4077	153.11	88.5004	16,232.58
Mar.	1.6034	5.5784	1.4649	7.3807	8.4026	149.89	88.1159	16,364.98
Apr.	1.6389	5.4995	1.4792	7.5561	8.6093	149.62	89.9311	16,313.20
May	1.6346	5.4092	1.4687	7.5948	8.5167	150.47	89.4602	16,116.84
June	1.6157	5.2695	1.4414	7.7653	8.4899	149.35	89.1134	16,194.88
July	1.6423	5.3099	1.4618	7.9482	8.6437	146.79	90.8395	16,639.99
Aug.	1.6818	5.3427	1.4703	7.9096	8.5370	143.87	90.3518	16,639.40
Sep.	1.6622	5.2770	1.4458	7.7967	8.3640	144.46	88.7372	16,424.67
Oct.	1.6637	5.3509	1.4474	7.7200	8.2648	146.50	87.8937	16,646.67
Nov.	1.6634	5.2963	1.4828	7.8087	8.4380	151.44	90.0102	16,853.56
Dec.	1.6321	5.3428	1.4653	7.7870	8.5152	150.55	90.8009	16,910.33
2024 Jan.	1.6422	5.3569	1.4631	7.8201	8.5244	149.43	90.6347	17,049.43
Feb.	1.6533	5.3559	1.4564	7.7651	8.4432	148.68	89.5608	16,898.59
Mar.	1.6586	5.4157	1.4726	7.8297	8.5049	149.04	90.2515	17,063.66
Apr.	1.6469	5.4975	1.4661	7.7658	8.4006	150.35	89.4676	17,258.77
May	1.6317	5.5529	1.4780	7.8206	8.4458	150.00	90.1573	17,375.67
June	1.6206	5.7884	1.4750	7.8051	8.4023	149.36	89.8106	17,595.94
July	1.6257	6.0053	1.4868	7.8750	8.4684	149.43	90.6557	17,623.29
Aug.	1.6559	6.1193	1.5049	7.8736	8.5849	151.84	92.4062	17,347.75
Sep.	1.6398	6.1528	1.5037	7.8611	8.6528	152.21	93.0808	17,020.23
Oct.	1.6250	6.1195	1.4993	7.7276	8.4726	149.07	91.6266	16,988.19

* 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
2022	3.5345	138.03	1,358.07	4.6279	21.1869	1.6582	10.1026	57.314
2023	3.9880	151.99	1,412.88	4.9320	19.1830	1.7622	11.4248	60.163
2022 Sep.	3.4181	141.57	1,381.71	4.5005	19.8718	1.6691	10.1697	57.074
Oct.	3.4823	144.73	1,403.51	4.6127	19.6481	1.7299	10.3919	57.738
Nov.	3.5488	145.12	1,384.19	4.7002	19.8393	1.6828	10.3357	58.655
Dec.	3.6562	142.82	1,370.59	4.6721	20.7608	1.6660	10.4480	58.888
2023 Jan.	3.7126	140.54	1,341.38	4.6589	20.4573	1.6851	10.7149	59.162
Feb.	3.7975	142.38	1,368.77	4.6794	19.9543	1.7016	10.9529	58.743
Mar.	3.8742	143.01	1,398.25	4.7816	19.7242	1.7242	11.2858	58.581
Apr.	3.9877	146.51	1,452.07	4.8561	19.8195	1.7673	11.5187	60.807
May	3.9863	148.93	1,442.31	4.9119	19.2755	1.7481	11.7330	60.604
June	3.9502	153.15	1,406.43	5.0208	18.6993	1.7686	11.7164	60.475
July	4.0546	155.94	1,419.16	5.0754	18.7085	1.7758	11.3474	60.690
Aug.	4.0861	157.96	1,443.24	5.0294	18.5202	1.8195	11.4127	61.461
Sep.	4.0793	157.80	1,424.53	5.0024	18.4757	1.8012	11.4525	60.665
Oct.	4.2034	158.04	1,427.33	5.0142	19.0882	1.7916	11.6284	59.994
Nov.	4.1118	161.84	1,412.57	5.0667	18.7877	1.8033	11.7958	60.285
Dec.	4.0057	157.21	1,423.13	5.0826	18.7665	1.7556	11.5333	60.593
2024 Jan.	4.0493	159.46	1,447.18	5.1105	18.6268	1.7673	11.3501	61.090
Feb.	3.9345	161.38	1,437.37	5.1468	18.4425	1.7618	11.3843	60.486
Mar.	3.9442	162.77	1,448.12	5.1272	18.2610	1.7869	11.5214	60.736
Apr.	4.0240	165.03	1,469.42	5.1139	18.0066	1.7992	11.6828	61.171
May	4.0062	168.54	1,474.96	5.0971	18.1549	1.7819	11.5988	62.523
June	4.0074	169.81	1,485.38	5.0680	19.6134	1.7539	11.4178	63.177
July	3.9902	171.17	1,499.62	5.0737	19.6397	1.7985	11.7160	63.416
Aug.	4.1079	161.06	1,488.61	4.8605	21.0823	1.8112	11.7895	62.710
Sep.	4.1452	159.08	1,478.72	4.7341	21.7625	1.7845	11.7852	62.256
Oct.	4.1020	163.20	1,484.59	4.6883	21.4603	1.7917	11.7907	62.655

Other European and non-European countries (cont'd)							
	Singapore	South Africa	Switzerland	Thailand	Turkey	United Kingdom	United States
	Singapore dollar SGD	South African rand ZAR	Swiss franc CHF	Thai baht THB	Turkish lira TRY	Pound sterling GBP	US dollar USD
2022	1.4512	17.2086	1.0047	36.856	17.4088	0.85276	1.0530
2023	1.4523	19.9551	0.9718	37.631	25.7597	0.86979	1.0813
2022 Sep.	1.3999	17.3828	0.9640	36.670	18.1465	0.87463	0.9904
Oct.	1.4003	17.8214	0.9791	37.286	18.2655	0.87058	0.9826
Nov.	1.4144	17.8328	0.9842	37.087	18.9877	0.86892	1.0201
Dec.	1.4313	18.3036	0.9865	36.817	19.7613	0.86950	1.0589
2023 Jan.	1.4283	18.4320	0.9961	35.840	20.2312	0.88212	1.0769
Feb.	1.4262	19.1765	0.9905	36.486	20.1981	0.88550	1.0715
Mar.	1.4354	19.5602	0.9908	36.912	20.3491	0.88192	1.0706
Apr.	1.4609	19.9205	0.9846	37.549	21.2267	0.88115	1.0968
May	1.4555	20.6864	0.9751	37.166	21.4918	0.87041	1.0868
June	1.4596	20.3033	0.9764	37.852	25.7697	0.85861	1.0840
July	1.4753	20.1074	0.9663	38.243	29.3212	0.85856	1.1058
Aug.	1.4735	20.4723	0.9588	38.195	29.3788	0.85892	1.0909
Sep.	1.4562	20.2780	0.9600	38.301	28.8643	0.86158	1.0684
Oct.	1.4462	20.1390	0.9547	38.549	29.4506	0.86798	1.0563
Nov.	1.4575	20.0397	0.9634	38.327	30.9786	0.87045	1.0808
Dec.	1.4533	20.3373	0.9441	38.176	31.7243	0.86168	1.0903
2024 Jan.	1.4569	20.5161	0.9368	38.401	32.8165	0.85873	1.0905
Feb.	1.4513	20.5082	0.9462	38.709	33.2644	0.85466	1.0795
Mar.	1.4573	20.4955	0.9656	39.079	34.8229	0.85524	1.0872
Apr.	1.4554	20.2378	0.9761	39.454	34.6926	0.85658	1.0728
May	1.4606	19.9079	0.9830	39.607	34.8605	0.85564	1.0812
June	1.4547	19.8144	0.9616	39.492	35.0667	0.84643	1.0759
July	1.4602	19.7950	0.9676	39.324	35.6969	0.84332	1.0844
Aug.	1.4488	19.8651	0.9450	38.263	37.1098	0.85150	1.1012
Sep.	1.4396	19.5634	0.9414	37.012	37.8238	0.84021	1.1106
Oct.	1.4283	19.1609	0.9386	36.411	37.3473	0.83496	1.0904

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

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

3. End-of-year rates and annual averages

EUR 1 = CU ...

Period	EU member countries								
	Bulgaria	Croatia ¹	Czechia	Denmark	Estonia ¹	Hungary	Latvia ¹	Lithuania ¹	Poland
	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								
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
2023	1.9558	–	24.724	7.4529	–	382.80	–	–	4.3395
	Annual averages +								
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
2023	1.9558	–	24.004	7.4509	–	381.85	–	–	4.5420

Period	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							
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	8.9675	133.20
2019	4.7830	10.4468	1.5995	4.5157	1.4598	7.8205	8.7473	135.80
2020	4.8683	10.0343	1.5896	6.3735	1.5633	8.0225	9.5142	156.10
2021	4.9490	10.2503	1.5615	6.3101	1.4393	7.1947	8.8333	147.60
2022	4.9495	11.1218	1.5693	5.6386	1.4440	7.3582	8.3163	151.50
2023	4.9756	11.0960	1.6263	5.3618	1.4642	7.8509	8.6314	150.50
	Annual averages +							
2010	4.2122	9.5373	1.4423	2.3314	1.3651	8.9712	10.2994	–
2011	4.2391	9.0298	1.3484	2.3265	1.3761	8.9960	10.8362	–
2012	4.4593	8.7041	1.2407	2.5084	1.2842	8.1052	9.9663	–
2013	4.4190	8.6515	1.3777	2.8687	1.3684	8.1646	10.3016	–
2014	4.4437	9.0985	1.4719	3.1211	1.4661	8.1857	10.3025	–
2015	4.4454	9.3535	1.4777	3.7004	1.4186	6.9733	8.6014	–
2016	4.4904	9.4689	1.4883	3.8561	1.4659	7.3522	8.5922	–
2017	4.5688	9.6351	1.4732	3.6054	1.4647	7.6290	8.8045	–
2018	4.6540	10.2583	1.5797	4.3085	1.5294	7.8081	9.2559	127.89
2019	4.7453	10.5891	1.6109	4.4134	1.4855	7.7355	8.7715	137.28
2020	4.8383	10.4848	1.6549	5.8943	1.5300	7.8747	8.8587	154.59
2021	4.9215	10.1465	1.5749	6.3779	1.4826	7.6282	9.1932	150.15
2022	4.9313	10.6296	1.5167	5.4399	1.3695	7.0788	8.2451	142.24
2023	4.9467	11.4788	1.6288	5.4010	1.4595	7.6600	8.4650	149.13

* 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									
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
2023	91.9045	17,079.71	3.9993	156.33	1,433.66	5.0775	18.7231	1.7504	11.2405
Annual averages +									
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
2023	89.3001	16,479.62	3.9880	151.99	1,412.88	4.9320	19.1830	1.7622	11.4248

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									
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
2023	61.283	-	1.4591	20.3477	0.9260	37.973	32.6531	0.86905	1.1050
Annual averages +									
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
2023	60.163	-	1.4523	19.9551	0.9718	37.631	25.7597	0.86979	1.0813

* 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

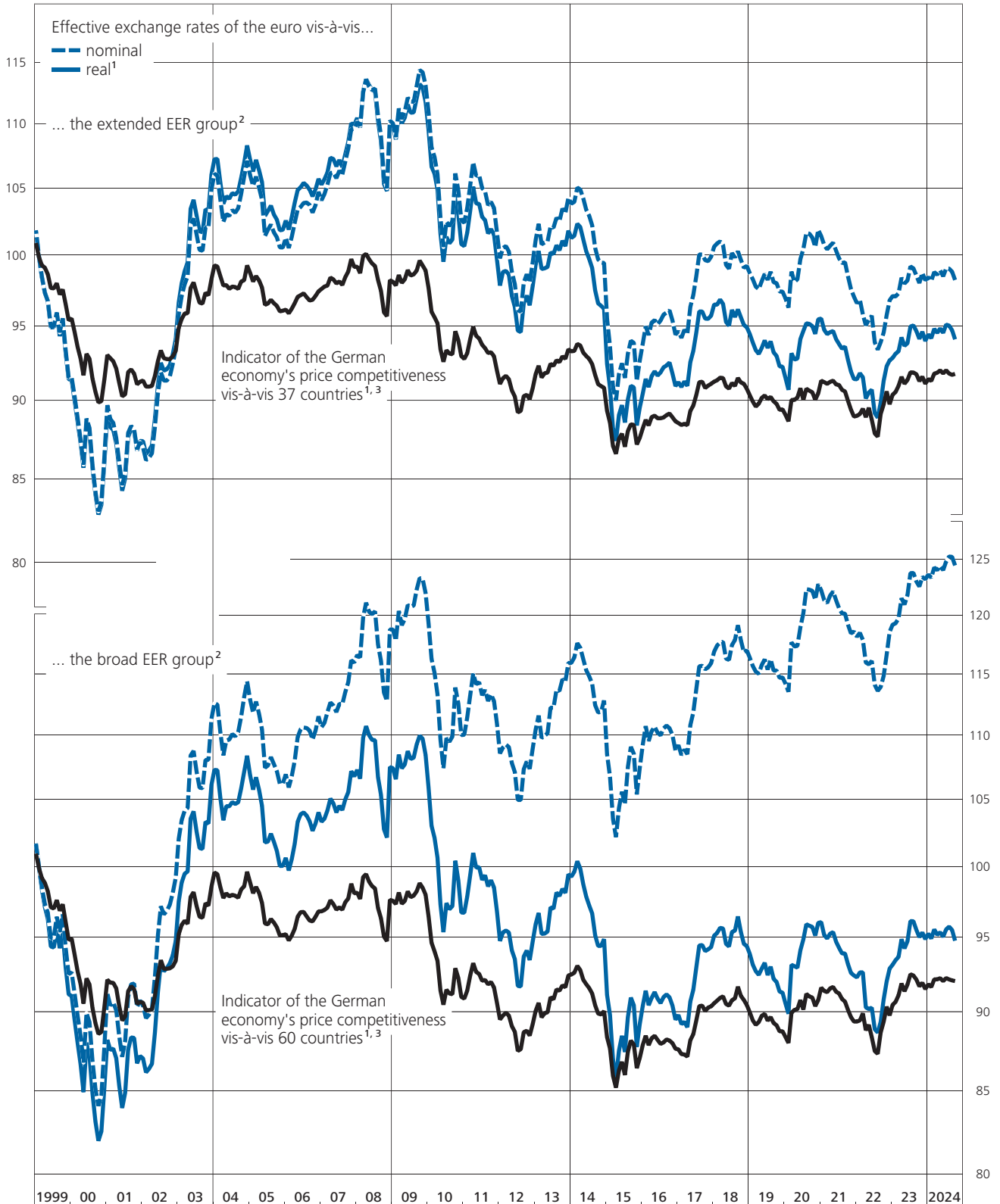


* See explanatory notes, p. 48. ¹ Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB.

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 com-

petitiveness. **1** Based on consumer price indices. **2** Includes the 18 respectively 41 most important trading partners of the euro area economy. **3** Includes the 37 respectively 60 most important trading partners of the German economy.

III. Effective exchange rates

2. Effective exchange rates of the euro *

Q1 1999 = 100

Yearly, quarterly or monthly average	Effective exchange rates of the euro vis-à-vis the currencies of the						
	extended EER group of trading partners (fixed composition) ¹			broad EER group of trading partners (fixed composition) ^{2 3}			
	Nominal	In real terms based on consumer price indices	In real terms based on the deflators of gross domestic product	In real terms based on unit labour costs of national economy	Nominal	In real terms based on consumer price indices	
1999	96.2	96.1	95.8	96.1	96.5	95.9	
2000	87.0	86.8	86.0	85.6	88.0	86.1	
2001	87.4	87.1	86.6	84.4	90.1	86.9	
2002	89.7	90.3	89.9	88.1	94.4	90.6	
2003	100.5	101.6	101.2	99.3	106.5	101.7	
2004	104.3	105.6	104.3	102.7	111.0	105.6	
2005	102.9	104.3	102.3	100.8	109.1	103.2	
2006	102.9	104.3	101.8	99.8	109.3	102.6	
2007	106.5	107.3	104.1	101.6	112.9	104.8	
2008	110.4	110.3	106.2	105.5	117.8	107.3	
2009	111.9	111.1	107.6	109.0	120.8	108.3	
2010	104.6	103.3	99.2	101.5	112.1	99.3	
2011	104.4	102.4	97.3	99.8	112.9	98.8	
2012	98.6	97.0	91.6	94.1	107.6	94.0	
2013	102.2	100.1	94.7	97.0	112.4	97.0	
2014	102.4	99.5	94.7	97.3	114.7	97.4	
2015	92.5	89.7	85.9	86.5	106.1	88.7	
2016	95.2	91.6	88.2	p	110.1	90.7	
2017	97.5	93.6	89.4	p	112.5	92.0	
2018	100.0	95.8	91.0	p	117.3	95.2	
2019	98.1	93.3	89.2	p	115.5	92.5	
2020	99.7	93.7	90.6	p	119.2	93.9	
2021	99.6	93.7	89.3	p	120.5	94.3	
2022	95.3	90.8	84.8	p	116.1	p	90.9
2023	98.1	94.0	89.3	p	121.8	p	94.7
2022 Nov.	95.7	92.3	85.7	p	116.6	p	92.0
2022 Dec.	96.8	92.6			118.6	p	92.9
2023 Jan.	97.1	92.8			119.2	p	93.1
2023 Feb.	97.0	93.1	87.7	p	119.3	p	93.4
2023 Mar.	97.3	93.3			119.7	p	93.7
2023 Apr.	98.4	94.2			121.5	p	94.9
2023 May	98.0	93.6	89.1	p	120.9	p	94.2
2023 June	98.2	93.8			121.8	p	94.7
2023 July	99.2	94.9			123.7	p	96.1
2023 Aug.	99.0	95.0	90.2	p	123.7	p	96.1
2023 Sep.	98.5	94.6			123.0	p	95.5
2023 Oct.	98.0	94.1			122.5	p	95.0
2023 Nov.	98.7	94.6	90.1	p	123.4	p	95.3
2023 Dec.	98.2	94.0			123.2	p	94.9
2024 Jan.	98.4	94.4			123.6	p	95.2
2024 Feb.	98.1	94.1	90.0	p	123.3	p	94.9
2024 Mar.	98.8	94.8			124.2	p	95.5
2024 Apr.	98.6	p	94.5		124.0	p	95.2
2024 May	98.9	p	94.8	p	124.4	p	95.3
2024 June	98.5	p	94.5		124.0	p	95.0
2024 July	99.0	p	95.1		124.8	p	95.5
2024 Aug.	99.0	p	95.0	...	125.2	p	95.7
2024 Sep.	98.8	p	94.7		125.2	p	95.5
2024 Oct.	98.2	p	94.1		124.4	p	94.8
2024 Oct. 22	97.9	-	-	-	124.0	-	-
2024 Oct. 23	97.8	-	-	-	123.8	-	-
2024 Oct. 24	97.9	-	-	-	124.0	-	-
2024 Oct. 25	98.1	-	-	-	124.3	-	-
2024 Oct. 28	98.2	-	-	-	124.3	-	-
2024 Oct. 29	98.0	-	-	-	124.1	-	-
2024 Oct. 30	98.3	-	-	-	124.4	-	-
2024 Oct. 31	98.6	-	-	-	124.9	-	-
2024 Nov. 1	98.6	-	-	-	125.0	-	-
2024 Nov. 4	98.6	-	-	-	125.0	-	-
2024 Nov. 5	98.7	-	-	-	125.1	-	-
2024 Nov. 6	97.9	-	-	-	123.9	-	-
2024 Nov. 7	98.1	-	-	-	124.2	-	-
2024 Nov. 8	98.0	-	-	-	124.1	-	-
2024 Nov. 11	97.6	-	-	-	123.5	-	-
2024 Nov. 12	97.5	-	-	-	123.4	-	-
2024 Nov. 13	97.6	-	-	-	123.6	-	-
2024 Nov. 14	97.2	-	-	-	123.1	-	-
2024 Nov. 15	97.4	-	-	-	123.3	-	-
2024 Nov. 18	97.4	-	-	-	123.2	-	-
2024 Nov. 19	97.4	-	-	-	123.3	-	-
2024 Nov. 20	97.4	-	-	-	123.2	-	-
2024 Nov. 21	97.1	-	-	-	122.9	-	-

* The weights are based on trade in manufactured goods and services. For information on methodology and grouping of countries, see Explanatory notes, pp. 48-50. A decline in the figures implies an increase in competitiveness. Where current price and wage indices were not available, estimates were used. ¹ Includes 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:		Euro area countries		Non-euro area countries	Total	of which:		Euro area countries			Non-euro area countries
		Euro area countries	Non-euro area countries					Euro area countries	Non-euro area countries				
1999	97.9	99.6	95.7	95.7	97.6	98.3	100.1	96.1	96.1	98.1	97.8		
2000	92.0	97.5	85.5	85.5	91.2	93.1	99.0	86.1	86.1	92.3	91.2		
2001	91.9	96.8	86.2	86.2	90.7	93.0	98.1	86.9	86.9	91.7	91.1		
2002	92.7	96.1	88.7	88.7	91.4	93.5	96.9	89.4	89.4	92.2	91.9		
2003	96.3	95.3	98.0	95.8	95.8	97.0	95.7	99.0	99.0	96.7	96.8		
2004	96.8	94.2	100.6	96.2	96.2	98.5	95.4	102.9	102.9	98.2	98.4		
2005	95.3	92.6	99.4	93.9	93.9	98.5	95.2	103.2	103.2	97.2	96.8		
2006	94.1	90.9	98.8	92.2	92.2	98.6	94.8	104.0	104.0	96.8	96.0		
2007	95.2	90.2	102.9	92.7	92.7	100.9	95.1	109.6	109.6	98.3	97.4		
2008	95.6	88.9	106.1	92.0	92.0	102.4	94.5	114.6	114.6	98.5	97.6		
2009	96.2	90.1	105.8	93.0	93.0	101.9	94.4	113.5	113.5	98.6	97.9		
2010	93.3	89.4	99.2	88.9	88.9	98.8	94.0	105.7	105.7	94.3	92.5		
2011	93.0	89.2	98.6	88.2	88.2	98.2	93.7	104.8	104.8	93.5	91.9		
2012	90.8	89.0	93.4	85.5	85.5	95.9	93.2	99.5	99.5	90.5	88.9		
2013	93.3	89.6	98.6	87.6	87.6	98.1	93.3	105.2	105.2	92.3	90.9		
2014	94.0	90.5	99.1	88.4	88.4	98.2	93.6	104.8	104.8	92.5	91.5		
2015	90.7	91.1	90.0	84.4	84.4	94.3	94.1	94.4	94.4	87.8	86.9		
2016	91.6	91.5	91.6	85.8	85.8	95.0	94.1	96.1	96.1	88.8	88.1		
2017	92.8	91.6	94.5	86.5	86.5	96.3	94.2	99.2	99.2	89.9	88.9		
2018	94.0	91.7	97.6	87.5	87.5	97.7	94.4	102.5	102.5	91.1	90.8		
2019	93.1	91.8	94.7	86.6	86.6	96.4	94.3	99.3	99.3	89.9	89.4		
2020	93.3	92.1	94.8	87.3	87.3	96.4	94.2	99.5	99.5	90.1	90.1		
2021	94.1	92.2	96.7	87.3	87.3	97.4	94.8	101.0	101.0	90.6	90.9		
2022	92.3	91.7	93.1	85.4	85.4	95.9	94.5	97.7	97.7	89.1	89.0		
2023	93.8	92.0	96.5	87.5	87.5	98.0	95.3	101.9	101.9	91.3	91.6		
2021 May	93.9	91.7	97.0	87.2	87.2	98.1	95.0	102.5	102.5	91.3	91.6		
June						97.9	95.0	102.0	102.0	91.0	91.3		
July						97.8	95.3	101.3	101.3	91.0	91.2		
Aug.	94.3	92.4	97.0	87.4	87.4	97.4	95.1	100.7	100.7	90.7	90.8		
Sep.						97.3	94.8	100.7	100.7	90.6	90.7		
Oct.						96.7	94.6	99.6	99.6	90.0	90.1		
Nov.	93.6	92.3	95.5	86.5	86.5	96.1	94.3	98.6	98.6	89.4	89.7		
Dec.						95.8	94.1	97.9	97.9	88.9	89.4		
2022 Jan.						96.0	94.2	98.4	98.4	89.0	89.4		
Feb.	93.2	92.1	94.6	85.9	85.9	96.2	94.1	98.9	98.9	89.1	89.4		
Mar.						96.3	94.4	98.7	98.7	89.5	89.9		
Apr.						96.1	94.7	97.8	97.8	88.9	88.8		
May	92.5	91.7	93.5	85.3	85.3	96.5	95.2	98.1	98.1	89.5	89.1		
June						95.7	94.2	97.6	97.6	88.7	88.4		
July						94.8	94.1	95.4	95.4	87.9	87.5		
Aug.	91.3	91.2	91.1	84.5	84.5	94.5	93.9	94.9	94.9	87.7	87.3		
Sep.						95.9	94.9	96.9	96.9	89.1	88.7		
Oct.						96.0	94.6	97.6	97.6	89.7	89.4		
Nov.	92.4	91.7	93.2	86.0	86.0	97.0	95.3	99.2	99.2	90.6	90.3		
Dec.						96.2	94.1	99.1	99.1	89.7	89.8		
2023 Jan.						97.5	94.9	101.0	101.0	90.4	90.5		
Feb.	93.2	91.5	95.6	86.4	86.4	97.7	95.1	101.3	101.3	90.5	90.6		
Mar.						98.0	95.4	101.7	101.7	90.9	91.1		
Apr.						98.5	95.6	102.8	102.8	91.5	91.9		
May	93.8	91.9	96.6	87.3	87.3	98.1	95.3	101.9	101.9	91.1	91.3		
June						98.2	95.4	102.1	102.1	91.3	91.8		
July						98.4	95.3	102.8	102.8	91.8	92.5		
Aug.	93.8	91.9	96.6	87.9	87.9	98.3	95.2	102.6	102.6	91.8	92.4		
Sep.						98.0	95.3	101.9	101.9	91.7	92.1		
Oct.						97.7	95.1	101.3	101.3	91.3	91.7		
Nov.	94.4	92.5	97.1	88.2	88.2	98.2	95.2	102.4	102.4	91.6	91.9		
Dec.						97.7	95.0	101.4	101.4	91.1	91.5		
2024 Jan.						97.8	95.1	101.6	101.6	91.4	p 91.8		
Feb.	94.1	92.4	96.6	88.1	88.1	97.7	95.0	101.4	101.4	91.3	p 91.6		
Mar.						98.1	95.2	102.3	102.3	91.8	p 92.1		
Apr.						98.3	95.4	102.5	p 91.8	p 91.8	p 92.1		
May	94.4	92.5	97.1	88.3	88.3	98.6	95.4	103.2	p 92.0	p 92.0	p 92.2		
June						98.1	95.2	102.3	p 91.8	p 91.8	p 92.0		
July						98.4	95.2	103.0	p 92.0	p 92.0	p 92.2		
Aug.	...	...	...	...	...	98.2	95.0	102.7	p 91.8	p 91.8	p 92.1
Sep.						p 98.1	p 95.1	102.5	p 91.7	p 91.7	p 92.1		
Oct.						p 98.2	p 95.4	p 102.2	p 91.7	p 91.7	p 92.0		

* 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 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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Afghanistan							
Kabul	Afghani = 100 puls	B	USD 1 =	AFN 81.1828	AFN 70.3246	AFN 68.4646	AFN 67.0320
		S	USD 1 =	AFN 81.2828	AFN 70.4246	AFN 68.5646	AFN 67.1320
	AFN	B	EUR 1 =	AFN 87.5552	AFN 77.0767	AFN 75.8405	AFN 72.7724
		S	EUR 1 =	AFN 87.8152	AFN 77.3367	AFN 76.1005	AFN 73.0324
Albania							
Tirana	Albanian lek = 100 qindarka ALL	M	USD 1 =	ALL 100.32	ALL 89.92	ALL 88.25	ALL 90.45
		M	EUR 1 =	ALL 108.68	ALL 99.65	ALL 98.77	ALL 98.29
Algeria							
Algiers	Algerian dinar = 100 centimes	B	USD 1 =	DZD 135.8504	DZD 133.6091	DZD 132.2649	DZD 133.0862
		S	USD 1 =	DZD 135.8654	DZD 133.6241	DZD 132.2799	DZD 133.1012
	DZD	B	EUR 1 =	DZD 146.8145	DZD 148.0389	DZD 147.3696	DZD 144.8377
		S	EUR 1 =	DZD 146.8689	DZD 148.0822	DZD 147.4127	DZD 144.8673
Angola							
Luanda	Kwanza = 100 cêntimos AOA	M	USD 1 =	AOA 698.829	AOA 912.350	AOA 940.111	AOA 909.051
		M	EUR 1 =	AOA 757.524	AOA 1,009.059	AOA 1,051.702	AOA 986.230
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 2.9068	XCD 2.9804	XCD 3.0097	XCD 2.9253
		V, S	EUR 1 =	XCD 2.9378	XCD 3.0122	XCD 3.0418	XCD 2.9565
Argentina 1							
Buenos Aires	Argentine peso = 100 centavos	B	USD 1 =	ARS 294.6068	ARS 950.5000	ARS 967.5000	ARS 989.0000
		S	USD 1 =	ARS 295.2949	ARS 953.5000	ARS 970.5000	ARS 992.0000
	ARS	B	EUR 1 =	ARS 318.5998	ARS 1,049.5421	ARS 1,078.0853	ARS 1,073.3617
		S	EUR 1 =	ARS 320.0821	ARS 1,055.2385	ARS 1,083.8544	ARS 1,079.0976
Armenia							
Yerevan	Armenian dram = 100 luma AMD	M	USD 1 =	AMD 392.40	AMD 387.53	AMD 387.29	AMD 387.62
		M	EUR 1 =	AMD 425.25	AMD 429.38	AMD 433.34	AMD 421.19
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 192.89	AWG 197.36	AWG 199.35	AWG 193.49
		S	EUR 100 =	AWG 194.83	AWG 199.34	AWG 201.36	AWG 195.44

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Australia							
Canberra	Australian dollar = 100 cents AUD	M	AUD 1 =	USD 0.6644	USD 0.6806	USD 0.6932	USD 0.6569
		M	AUD 1 =	EUR 0.6126	EUR 0.6144	EUR 0.6208	EUR 0.6055
Austria							
Vienna	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
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 1.8436	AZN 1.8826	AZN 1.8976	AZN 1.8441
Bahamas							
Nassau	Bahamian dollar = 100 cents BSD	2 B	USD 1 =	BSD 0.9950	BSD 0.9950	BSD 0.9950	BSD 0.9950
		2 S	USD 1 =	BSD 1.0125	BSD 1.0125	BSD 1.0125	BSD 1.0125
		V, B	EUR 1 =	BSD 1.07589	BSD 1.10316	BSD 1.11400	BSD 1.08276
		V, S	EUR 1 =	BSD 1.09482	BSD 1.12256	BSD 1.13360	BSD 1.10180
Bahrain							
Manama	Bahraini dinar = 1,000 fils BHD	2	USD 1 =	BHD 0.376081	BHD 0.376081	BHD 0.376081	BHD 0.376081
		M	EUR 1 =	BHD 0.4078804	BHD 0.4184470	BHD 0.4200830	BHD 0.4081800
Bangladesh ¹							
Dhaka	Taka = 100 poisha BDT	B	USD 1 =	BDT 106.8750	BDT 119.0000	BDT 119.0000	BDT 119.0000
		S	USD 1 =	BDT 108.5308	BDT 120.0000	BDT 120.0000	BDT 120.0000
		B	EUR 1 =	BDT 115.4373	BDT 130.6620	BDT 131.0190	BDT 127.3181
		S	EUR 1 =	BDT 122.0670	BDT 136.5720	BDT 138.1320	BDT 133.2000
Barbados							
Bridgetown	Barbados dollar = 100 cents BBD	2 B	USD 1 =	BBD 1.99375	BBD 1.99375	BBD 1.99375	BBD 1.99375
		2 S	USD 1 =	BBD 2.02768	BBD 2.02768	BBD 2.02768	BBD 2.02768
		B	EUR 1 =	BBD 2.15904	BBD 2.20649	BBD 2.22252	BBD 2.16428
		S	EUR 1 =	BBD 2.19951	BBD 2.24786	BBD 2.26419	BBD 2.20485
Belarus							
Minsk	Belarusian rouble = 100 kopecks BYN	M	USD 1 =	BYN 3.0148	BYN 3.1834	BYN 3.2113	BYN 3.3185
		M	EUR 1 =	BYN 3.2659	BYN 3.5310	BYN 3.5844	BYN 3.5975

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Belgium							
Brussels	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
Belize							
Belmopan	Belize dollar = 100 cents BZD	2 B 2 S	USD 1 =	BZD 1.9927	3 BZD 2.0000	BZD 2.0000	BZD 2.0000
			USD 1 =	BZD 2.0175			
		B S	EUR 1 = EUR 1 =	BZD 2.1479 BZD 2.1859	BZD 2.1960 BZD 2.2348	BZD 2.2137 BZD 2.2527	BZD 2.1530 BZD 2.1910
Benin ¹							
Porto-Novo Seat of government: Cotonou	CFA franc XOF	B S 4	USD 1 = USD 1 = EUR 1 =	XOF 601.85 XOF 608.85 XOF 655.957	XOF 588.00 XOF 595.00 XOF 655.957	XOF 582.75 XOF 589.75 XOF 655.957	XOF 600.50 XOF 607.50 XOF 655.957
Bermuda							
Hamilton	Bermudian dollar = 100 cents BMD	2 B 2 S	USD 1 =	BMD 0.9960	BMD 0.9960	BMD 0.9960	BMD 0.9960
			USD 1 =	BMD 1.0043				BMD 1.0043
		V, B V, S	EUR 1 = EUR 1 =	BMD 1.0770 BMD 1.0859	BMD 1.1043 BMD 1.1135	BMD 1.1151 BMD 1.1244	BMD 1.0838 BMD 1.0929
Bhutan ¹							
Thimphu	Ngultrum = 100 chhetrum BTN	B S	USD 1 =	BTN 81.96	BTN 83.65	BTN 83.49	BTN 83.86
			USD 1 =	BTN 83.90			
		B S	EUR 1 = EUR 1 =	BTN 88.75 BTN 90.50	BTN 92.80 BTN 94.15	BTN 93.20 BTN 94.50	BTN 90.92 BTN 92.25
Bolivia, Plurinational State of ¹							
Sucre Seat of government: La Paz	Boliviano = 100 centavos BOB	B S	USD 1 =	BOB 6.86	BOB 6.86	BOB 6.86	BOB 6.86
			USD 1 =	BOB 6.96			
		V, B V, S	EUR 1 = EUR 1 =	BOB 7.4183 BOB 7.5265	BOB 7.6057 BOB 7.7166	BOB 7.6805 BOB 7.7924	BOB 7.4651 BOB 7.5739
Bosnia and Herzegovina							
Sarajevo	Convertible marka = 100 feninga BAM	B S	USD 1 =	BAM 1.800222	BAM 1.759665	BAM 1.748468	BAM 1.803921
			USD 1 =	BAM 1.809246				BAM 1.768485	BAM 1.757232	BAM 1.812963
		4	EUR 1 =	BAM 1.95583	BAM 1.95583	BAM 1.95583	BAM 1.95583
Botswana							
Gaborone	Pula = 100 thebe BWP	B S	BWP 1 =	USD 0.0748	USD 0.0755	USD 0.0768	USD 0.0745
			BWP 1 =	USD 0.0746				USD 0.0753	USD 0.0766	USD 0.0744
		B S	EUR 1 = EUR 1 =	EUR 0.0696 EUR 0.0694	EUR 0.0682 EUR 0.0680	EUR 0.0686 EUR 0.0685	EUR 0.0692 EUR 0.0690

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 Adjustment of the fixed value with effect from 1 June 2023. 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 2023	Rate at end of month			
					August 2024	September 2024	October 2024	
Brazil								
Brasília	Brazilian real = 100 centavos	B	USD 1 =	BRL 4.9947	BRL 5.6556	BRL 5.4475	BRL 5.7773	
		S	USD 1 =	BRL 4.9953	BRL 5.6562	BRL 5.4481	BRL 5.7779	
	BRL	B	EUR 1 =	BRL 5.3932	BRL 6.2545	BRL 6.0707	BRL 6.2713	
		S	EUR 1 =	BRL 5.3952	BRL 6.2563	BRL 6.0719	BRL 6.2725	
	Brunei Darussalam ¹							
	Bandar Seri Begawan	Brunei dollar = 100 cents	B	USD 1 =	BND 1.3322	BND 1.2938	BND 1.2713	BND 1.3139
S			USD 1 =	BND 1.3496	BND 1.3118	BND 1.2893	BND 1.3319	
BND		B	EUR 1 =	BND 1.4298	BND 1.4182	BND 1.4048	BND 1.4104	
		S	EUR 1 =	BND 1.4837	BND 1.4722	BND 1.4588	BND 1.4644	
Bulgaria								
Sofia		Bulgarian lev = 100 stotinkas BGN	M	USD 1 =	BGN 1.80931	BGN 1.76408	BGN 1.74690	BGN 1.79731
	²		EUR 1 =	BGN 1.95583	BGN 1.95583	BGN 1.95583	BGN 1.95583	
Burkina Faso ¹								
Ouagadougou	CFA franc	B	USD 1 =	XOF 601.85	XOF 588.00	XOF 582.75	XOF 600.50	
		S	USD 1 =	XOF 608.85	XOF 595.00	XOF 589.75	XOF 607.50	
	XOF	²	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957	
Burundi								
Gitega	Burundi franc = 100 centimes	B	USD 1 =	BIF 2,564.4556	BIF 2,872.1872 ³	BIF 2,877.0480	BIF 2,882.0278	
		S	USD 1 =	BIF 2,605.8178	BIF 2,918.5128 ³	BIF 2,923.4520	BIF 2,928.5122	
	BIF	B	EUR 1 =	BIF 2,779.4071	BIF 3,175.9210 ³	BIF 3,211.7925	BIF 3,126.8561	
		S	EUR 1 =	BIF 2,824.2363	BIF 3,227.1455 ³	BIF 3,263.5956	BIF 3,177.2893	
	Cabo Verde							
	Praia	Cabo Verde escudo = 100 centavos	B	USD 1 =	CVE 101.552	CVE 99.344	CVE 98.720	CVE 101.855
S			USD 1 =	CVE 101.754	CVE 99.546	CVE 98.922	CVE 102.057	
CVE		²	EUR 1 =	CVE 110.265	CVE 110.265	CVE 110.265	CVE 110.265	
Cambodia								
Phnom Penh	Riel = 100 sen KHR	M	USD 1 =	KHR 4,109	KHR 4,057	KHR 4,061	KHR 4,063	
		B	EUR 1 =	KHR 4,451	KHR 4,497	KHR 4,525	KHR 4,395	
	S	EUR 1 =	KHR 4,495	KHR 4,542	KHR 4,570	KHR 4,439		
Cameroon ¹								
Yaoundé	CFA franc	B	USD 1 =	XAF 600.8986	XAF 588.6981	XAF 582.9060	XAF 601.2180	
		S	USD 1 =	XAF 606.2977	XAF 590.1229	XAF 588.8145	XAF 608.1108	
	XAF	²	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957	
Canada								
Ottawa	Canadian dollar = 100 cents CAD	M	USD 1 =	CAD 1.3497	CAD 1.3491	CAD 1.3499	CAD 1.3916	
		M	EUR 1 =	CAD 1.4599	CAD 1.4921	CAD 1.5076	CAD 1.5122	

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 Exchange rate as of 2 September 2024.

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
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 0.9011	KYD 0.9239	KYD 0.9330	KYD 0.9068
Central African Republic ¹							
Bangui	CFA franc XAF	B	USD 1 =	XAF 600.8986	XAF 588.6981	XAF 582.9060	XAF 601.2180
		S	USD 1 =	XAF 606.2977	XAF 590.1229	XAF 588.8145	XAF 608.1108
		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 600.8986	XAF 588.6981	XAF 582.9060	XAF 601.2180
		S	USD 1 =	XAF 606.2977	XAF 590.1229	XAF 588.8145	XAF 608.1108
		3	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Chile							
Santiago Seat of parliament: Valparaíso	Chilean peso = 100 centavos CLP	M	USD 1 =	CLP 839.07	CLP 917.38	CLP 896.25	CLP 950.89
		M	EUR 1 =	CLP 907.21	CLP 1,016.37	CLP 1,000.17	CLP 1,027.43
China							
Beijing	Chinese renminbi ⁴ 1 yuan (renminbi) = 10 jiao = 100 fen CNY	M	USD 1 =	CNY 7.0467	CNY 7.1124	CNY 7.0074	CNY 7.1250
		M	EUR 1 =	CNY 7.6689	CNY 7.8807	CNY 7.8267	CNY 7.7368
		M	HKD 1 =	CNY 0.89935	CNY 0.91222	CNY 0.90179	CNY 0.91673
China (Taiwan)							
Taipei	New Taiwan dollar = 100 cents TWD	B	USD 1 =	TWD 31.145	TWD 31.890	TWD 31.600	TWD 31.990
		S	USD 1 =	TWD 32.495	TWD 31.990	TWD 31.700	TWD 32.090
		B	EUR 1 =	TWD 33.54	TWD 35.20	TWD 35.18	TWD 34.60
S	EUR 1 =	TWD 33.94	TWD 35.60	TWD 35.58	TWD 35.00		
Colombia							
Bogotá	Colombian peso = 100 centavos COP	M	USD 1 =	COP 4,326.74	COP 4,132.11	COP 4,164.21	COP 4,413.46
		V	EUR 1 =	COP 4,677.670	COP 4,581.270	COP 4,662.250	COP 4,802.727
Comoros							
Moroni	Comorian franc = 100 centimes KMF	V	USD 1 =	KMF 454.97804	KMF 443.73388	KMF 439.41385	KMF 452.09314
		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 600.8986	XAF 588.6981	XAF 582.9060	XAF 601.2180
		S	USD 1 =	XAF 606.2977	XAF 590.1229	XAF 588.8145	XAF 608.1108
		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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Congo, Democratic Republic of the							
Kinshasa	Congo franc = 100 centimes CDF	M	USD 1 =	CDF 2,350.1736	CDF 2,834.1560	CDF 2,847.4559	CDF 2,849.8256
		M	EUR 1 =	CDF 2,545.6034	CDF 3,154.5146	CDF 3,179.1709	CDF 3,083.1151
Cook Islands 1							
Avarua	Cook Islands dollar 2 = 100 cents NZD	B	NZD 1 =	EUR 0.5770	EUR 0.5769	EUR 0.5813	EUR 0.5593
		S	NZD 1 =	EUR 0.5551	EUR 0.5552	EUR 0.5595	EUR 0.5421
Costa Rica							
San José	Costa Rican colón = 100 céntimos CRC	B	USD 1 =	CRC 538.34	CRC 516.58	CRC 516.86	CRC 509.26
		S	USD 1 =	CRC 545.32	CRC 521.66	CRC 522.87	CRC 515.61
		V, B V, S	EUR 1 = EUR 1 =	CRC 582.8988 CRC 590.4537	CRC 572.7322 CRC 578.3644	CRC 578.6765 CRC 585.4053	CRC 554.1767 CRC 561.0868
Côte d'Ivoire 1							
Yamoussoukro Seat of government: Abidjan	CFA franc XOF	B	USD 1 =	XOF 601.85	XOF 588.00	XOF 582.75	XOF 600.50
		S	USD 1 =	XOF 608.85	XOF 595.00	XOF 589.75	XOF 607.50
		3	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Croatia							
Zagreb	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
Cuba 1							
Havana	Cuban peso = 100 centavos CUP	4 5	USD 1 =	CUP 24.00	CUP 24.00	CUP 24.00	CUP 24.00
		5	EUR 1 =	CUP 25.9864	CUP 26.5908	CUP 26.7516	CUP 26.0628
		6	USD 1 =	CUP 120.00	CUP 120.00	CUP 120.00	CUP 120.00
		6	EUR 1 =	CUP 129.9320	CUP 132.9540	CUP 133.7580	CUP 130.3140
Curaçao							
Willemstad	Netherlands Antillean guilder = 100 cents ANG	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 S	EUR 100 = EUR 100 =	ANG 192.90 ANG 196.79	ANG 197.36 ANG 201.34	ANG 199.35 ANG 203.37	ANG 193.49 ANG 197.39
Cyprus							
Nicosia	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
Czechia							
Prague	Czech koruna = 100 heller CZK	M	USD 1 =	CZK 22.210	CZK 22.577	CZK 22.495	CZK 23.278
		M	EUR 1 =	CZK 23.971	CZK 25.030	CZK 25.180	CZK 25.325

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

dollar. 5 Rate for transactions by general government. 6 Rate for non-government transactions.

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Denmark							
Copenhagen	Danish krone = 100 øre DKK	M	USD 100 =	DKK 689.26	DKK 672.76	DKK 665.95	DKK 685.54
		M	EUR 100 =	DKK 745.13	DKK 745.89	DKK 745.60	DKK 746.01
Djibouti							
Djibouti	Djibouti franc = 100 centimes DJF	2 B	USD 1 =	DJF 176.83	DJF 176.83	DJF 176.83	DJF 176.83
		2 S	USD 1 =	DJF 179.50	DJF 179.50	DJF 179.50	DJF 179.50
		B	EUR 1 =	DJF 189.80	DJF 195.37	DJF 195.86	DJF 190.35
		S	EUR 1 =	DJF 197.54	DJF 203.00	DJF 203.51	DJF 197.78
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 2.9068	XCD 2.9804	XCD 3.0097	XCD 2.9253
		V, S	EUR 1 =	XCD 2.9378	XCD 3.0122	XCD 3.0418	XCD 2.9565
Dominican Republic							
Santo Domingo	Dominican peso = 100 centavos DOP	B	USD 1 =	DOP 55.2360	DOP 58.5923	DOP 58.9695	DOP 59.0545
		S	USD 1 =	DOP 56.4645	DOP 59.8995	DOP 60.2518	DOP 60.2636
		B	EUR 1 =	DOP 59.3586	DOP 64.6033	DOP 65.2424	DOP 63.5175
		S	EUR 1 =	DOP 62.8987	DOP 68.2774	DOP 69.0038	DOP 67.2062
Egypt							
Cairo	Egyptian pound = 100 piastres = 1,000 milliems EGP	B	USD 1 =	EGP 30.64	EGP 48.57	EGP 48.26	EGP 48.88
		S	USD 1 =	EGP 30.74	EGP 48.67	EGP 48.36	EGP 48.98
		B	EUR 1 =	EGP 33.1023	EGP 53.6990	EGP 53.7713	EGP 53.0104
		S	EUR 1 =	EGP 33.4357	EGP 54.2135	EGP 54.2019	EGP 53.3245
El Salvador ¹							
San Salvador	El Salvador colón = 100 centavos SVC	2	USD 1 =	SVC 8.75	SVC 8.75	SVC 8.75	SVC 8.75
		V	EUR 1 =	SVC 9.4614	SVC 9.7011	SVC 9.7965	SVC 9.5218
Equatorial Guinea ¹							
Malabo	CFA franc XAF	B	USD 1 =	XAF 600.8986	XAF 588.6981	XAF 582.9060	XAF 601.2180
		S	USD 1 =	XAF 606.2977	XAF 590.1229	XAF 588.8145	XAF 608.1108
		3	EUR 1 =	XAF 655.957	XAF 655.957	XAF 655.957	XAF 655.957
Eritrea							
Asmara	Nakfa = 100 centes 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 16.2843	ERN 16.6470	ERN 16.7310	ERN 16.2300
		S	EUR 1 =	ERN 16.9205	ERN 17.2832	ERN 17.3672	ERN 16.8662
Estonia							
Tallinn	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882

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 Exchange rate as of 27 May 2024.

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 2023	Rate at end of month			
					August 2024	September 2024	October 2024	
Eswatini ¹								
Mbabane Seat of parliament: Lobamba	Lilangeni = 100 cents	B	USD 1 =	SZL 18.4738	SZL 17.7049	SZL 17.0532	SZL 17.6674	
		S	USD 1 =	SZL 18.4834	SZL 17.7139	SZL 17.0618	SZL 17.6757	
	SZL	B	EUR 1 =	SZL 20.0371	SZL 19.6231	SZL 19.0415	SZL 19.1123	
		S	EUR 1 =	SZL 20.0500	SZL 19.6341	SZL 19.0539	SZL 19.1244	
	Ethiopia							
	Addis Ababa	Birr = 100 cents	B	USD 1 =	ETB 54.7070	ETB 105.4304	ETB 112.3957	ETB 119.2044
S			USD 1 =	ETB 55.8012	ETB 117.0277	ETB 123.6353	ETB 121.5885	
ETB		B	EUR 1 =	ETB 59.3658	ETB 116.7747	ETB 125.0177	ETB 128.8242	
		S	EUR 1 =	ETB 60.5531	ETB 129.6199	ETB 137.5195	ETB 131.4007	
Falkland Islands (Islas Malvinas)								
Stanley		Falkland Islands pound ² = 100 pence FKP	V	USD 1 =	FKP 0.80439	FKP 0.75873	FKP 0.74619	FKP 0.76965
	V		EUR 1 =	FKP 0.86979	FKP 0.84120	FKP 0.83543	FKP 0.83753	
Fiji								
Suva	Fiji dollar = 100 cents	B	FJD 1 =	USD 0.4526	USD 0.4577	USD 0.4614	USD 0.4475	
		S	FJD 1 =	USD 0.4356	USD 0.4407	USD 0.4444	USD 0.4305	
	FJD	B	FJD 1 =	EUR 0.4150	EUR 0.4110	EUR 0.4113	EUR 0.4097	
		S	FJD 1 =	EUR 0.4030	EUR 0.3990	EUR 0.3993	EUR 0.3977	
	Finland							
	Helsinki	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
France								
Paris	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882	
Gabon ¹								
Libreville	CFA franc	B	USD 1 =	XAF 600.8986	XAF 588.6981	XAF 582.9060	XAF 601.2180	
		S	USD 1 =	XAF 606.2977	XAF 590.1229	XAF 588.8145	XAF 608.1108	
	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 60.71	GMD 68.15	GMD 68.39	GMD 68.41	
		M	EUR 1 =	GMD 65.93	GMD 74.64	GMD 76.79	GMD 77.17	
Georgia								
Tbilisi	Lari = 100 tetri GEL	M	USD 1 =	GEL 2.6277	GEL 2.6920	GEL 2.7297	GEL 2.7468	
		M	EUR 1 =	GEL 2.8417	GEL 2.9865	GEL 3.0480	GEL 2.9759	

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Germany							
Berlin	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
Ghana							
Accra	Ghana cedi = 100 Ghana pesewas GHS	B S	USD 1 =	GHS 11.1524	GHS 15.1823	GHS 15.7921	GHS 16.2919
			USD 1 =	GHS 11.1635	GHS 15.1975	GHS 15.8079	GHS 16.3082
		B S	EUR 1 =	GHS 12.0775	GHS 16.7745	GHS 17.6028	GHS 17.6904
			EUR 1 =	GHS 12.0892	GHS 16.7910	GHS 17.6188	GHS 17.7079
Gibraltar							
Gibraltar	Gibraltar pound ² = 100 pence GIP	V V	USD 1 =	GIP 0.80439	GIP 0.75873	GIP 0.74619	GIP 0.76965
			EUR 1 =	GIP 0.86979	GIP 0.84120	GIP 0.83543	GIP 0.83753
Greece							
Athens	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
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 2.9068	XCD 2.9804	XCD 3.0097	XCD 2.9253
			EUR 1 =	XCD 2.9378	XCD 3.0122	XCD 3.0418	XCD 2.9565
Guatemala							
Guatemala City	Quetzal = 100 centavos GTQ	M V	USD 1 =	GTQ 7.83647	GTQ 7.72910	GTQ 7.72348	GTQ 7.72505
			EUR 1 =	GTQ 8.48573	GTQ 8.56925	GTQ 8.64721	GTQ 8.40640
Guinea							
Conakry	Guinean franc GNF	M M	USD 1 =	GNF 8,508.4991	GNF 8,583.5487	GNF 8,585.8108	GNF 8,563.1016
			EUR 1 =	GNF 9,225.4970	GNF 9,517.4415	GNF 9,580.0488	GNF 9,237.5761
Guinea-Bissau ¹							
Bissau	CFA franc XOF	B S	USD 1 =	XOF 601.85	XOF 588.00	XOF 582.75	XOF 600.50
			USD 1 =	XOF 608.85	XOF 595.00	XOF 589.75	XOF 607.50
		4	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Guyana							
Georgetown	Guyana dollar = 100 cents GYD	B S	USD 1 =	GYD 207.98	GYD 207.98	GYD 207.98	GYD 207.98
			USD 1 =	GYD 210.45	GYD 210.45	GYD 210.45	GYD 210.45
		B S	EUR 1 =	GYD 225.09	GYD 230.67	GYD 232.13	GYD 224.47
			EUR 1 =	GYD 227.98	GYD 233.63	GYD 235.10	GYD 227.35

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Haiti							
Port-au-Prince	Gourde = 100 centimes HTG	M	USD 1 =	HTG 140.1753	HTG 131.4634	HTG 131.5316	HTG 131.1781
		V	EUR 1 =	HTG 151.7859	HTG 145.7535	HTG 147.2628	HTG 142.7480
Honduras							
Tegucigalpa	Lempira = 100 centavos HNL	B	USD 1 =	HNL 24.6030	HNL 24.7588	HNL 24.8381	HNL 24.9661
		S	USD 1 =	HNL 24.7261	HNL 24.8826	HNL 24.9623	HNL 25.0909
		V, B	EUR 1 =	HNL 26.6413	HNL 27.4501	HNL 27.8087	HNL 27.1681
		V, S	EUR 1 =	HNL 26.7745	HNL 27.5873	HNL 27.9478	HNL 27.3039
Hong Kong							
Hong Kong	Hong Kong dollar = 100 cents HKD	B	USD 1 =	HKD 7.79805	HKD 7.76620	HKD 7.73530	HKD 7.74200
		S	USD 1 =	HKD 7.85978	HKD 7.82770	HKD 7.79680	HKD 7.80360
		B	EUR 1 =	HKD 8.40687	HKD 8.57310	HKD 8.62800	HKD 8.36970
		S	EUR 1 =	HKD 8.54956	HKD 8.71040	HKD 8.76530	HKD 8.50700
Hungary							
Budapest	Hungarian forint = 100 fillér HUF	M	USD 1 =	HUF 353.25	HUF 354.47	HUF 354.81	HUF 375.81
		M	EUR 1 =	HUF 380.53	HUF 392.61	HUF 397.56	HUF 406.44
Iceland							
Reykjavík	Icelandic krona ISK	M	USD 1 =	ISK 137.661	ISK 137.91	ISK 134.60	ISK 136.83
		M	EUR 1 =	ISK 148.450	ISK 152.90	ISK 150.70	ISK 148.90
India ¹							
New Delhi	Indian rupee = 100 paise INR	M	USD 1 =	INR 82.5999	INR 83.8709	INR 83.7888	INR 84.0886
		M	EUR 1 =	INR 89.4895	INR 92.9083	INR 93.5340	INR 91.2505
Indonesia							
Jakarta	Indonesian rupiah = 100 sen IDR	B	USD 1 =	IDR 15,146.72	IDR 15,331.95	IDR 15,062.31	IDR 15,653.34
		S	USD 1 =	IDR 15,298.95	IDR 15,486.05	IDR 15,213.69	IDR 15,810.66
		B	EUR 1 =	IDR 16,392.04	IDR 17,043.00	IDR 16,767.36	IDR 16,933.78
		S	EUR 1 =	IDR 16,562.14	IDR 17,215.84	IDR 16,937.40	IDR 17,108.72
Iran, Islamic Republic of ¹							
Tehran	Iranian rial = 100 dinars IRR	2	USD 1 =	IRR 42,000	IRR 420,741	IRR 449,150	IRR 444,081
		2	EUR 1 =	IRR 45,555	IRR 465,370	IRR 501,389	IRR 482,447
		3	USD 1 =	IRR 510,567	IRR 593,500	IRR 606,500	IRR 686,500
		3	EUR 1 =	IRR 553,167	IRR 656,500	IRR 676,000	IRR 745,000

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

IV. Overview of world currencies *

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

Country 1 Capital	Currency ISO currency code	Type of rate	Unit	Annual average 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Iraq							
Baghdad	Iraqi dinar = 1,000 fils	2 B	USD 1 =	IQD 1,312.50	IQD 1,300.00	IQD 1,300.00	IQD 1,300.00
		2 S	USD 1 =	IQD 1,322.50	IQD 1,310.00	IQD 1,310.00	IQD 1,310.00
	IQD	B	EUR 1 =	IQD 1,421.539	IQD 1,441.440	IQD 1,455.480	IQD 1,414.660
		S	EUR 1 =	IQD 1,432.370	IQD 1,452.528	IQD 1,466.676	IQD 1,425.542
Ireland							
Dublin	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
Israel							
Jerusalem	New shekel = 100 agorot ILS	M	USD 1 =	ILS 3.6897	ILS 3.6560	ILS 3.7100	ILS 3.7140
		M	EUR 1 =	ILS 4.0154	ILS 4.0558	ILS 4.1524	ILS 4.0418
Italy							
Rome	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
Jamaica							
Kingston	Jamaican dollar = 100 cents	B	USD 1 =	JMD 153.3267	JMD 156.9021	JMD 157.2790	JMD 157.6271
		S	USD 1 =	JMD 154.9798	JMD 158.2916	JMD 158.7166	JMD 159.1069
	JMD	B	EUR 1 =	JMD 163.6487	JMD 168.5027	JMD 169.8950	JMD 167.3503
		S	EUR 1 =	JMD 169.9925	JMD 178.9596	JMD 180.0163	JMD 173.3679
Japan							
Tokyo	Japanese yen = 100 sen	B	USD 1 =	JPY 139.67	JPY 143.80	JPY 141.73	JPY 152.64
		S	USD 1 =	JPY 141.67	JPY 145.80	JPY 143.73	JPY 154.64
	JPY	B	EUR 1 =	JPY 151.67	JPY 158.94	JPY 157.93	JPY 165.23
		S	EUR 1 =	JPY 154.67	JPY 161.94	JPY 160.93	JPY 168.23
Jordan							
Amman	Jordanian dinar = 1,000 fils	2 B	USD 1 =	JOD 0.7080	JOD 0.7080	JOD 0.7080	JOD 0.7080
		2 S	USD 1 =	JOD 0.7100	JOD 0.7100	JOD 0.7100	JOD 0.7100
	JOD	B	EUR 1 =	JOD 0.76495	JOD 0.78383	JOD 0.78970	JOD 0.76761
		S	EUR 1 =	JOD 0.77123	JOD 0.79087	JOD 0.79577	JOD 0.77213
Kazakhstan							
Astana	Tenge = 100 tiyn KZT	M	USD 1 =	KZT 456.43	KZT 481.63	KZT 479.23	KZT 488.45
		M	EUR 1 =	KZT 494.49	KZT 534.46	KZT 534.96	KZT 529.19

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 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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Kenya 1							
Nairobi	Kenya shilling = 100 cents KES	M	USD 1 =	KES 141.2130	KES 129.1747	KES 129.1957	KES 129.1999
		M	EUR 1 =	KES 153.1451	KES 143.0416	KES 144.2405	KES 140.1754
Korea, Democratic People's Republic of 1							
Pyongyang	North Korean won = 100 chon KPW	B	USD 1 =	.	.	.	.
		S	USD 1 =	.	.	.	.
		B	EUR 1 =	.	.	.	.
		S	EUR 1 =	.	.	.	.
Korea, Republic of							
Seoul	South Korean won = 100 chon KRW	B	USD 1 =	KRW 1,295.23	KRW 1,325.90	KRW 1,312.60	KRW 1,362.60
		S	USD 1 =	KRW 1,320.54	KRW 1,352.10	KRW 1,338.40	KRW 1,389.40
		B	EUR 1 =	KRW 1,405.70	KRW 1,464.74	KRW 1,452.33	KRW 1,482.74
		S	EUR 1 =	KRW 1,434.08	KRW 1,494.32	KRW 1,481.67	KRW 1,512.68
Kuwait							
Kuwait	Kuwaiti dinar = 1,000 fils KWD	B	USD 1 =	KWD 0.30581	KWD 0.30350	KWD 0.30345	KWD 0.30505
		S	USD 1 =	KWD 0.30958	KWD 0.30710	KWD 0.30705	KWD 0.30865
		B	EUR 1 =	KWD 0.331129	KWD 0.335701	KWD 0.337588	KWD 0.331056
		S	EUR 1 =	KWD 0.335209	KWD 0.339683	KWD 0.341593	KWD 0.334962
Kyrgyzstan							
Bishkek	Kyrgyz som = 100 tyiyn KGS	M	USD 1 =	KGS 87.9285	KGS 84.9152	KGS 84.2000	KGS 85.8000
		M	EUR 1 =	KGS 95.2932	KGS 94.0521	KGS 93.8409	KGS 93.0072
Lao People's Democratic Republic							
Vientiane	Kip LAK	B	USD 1 =	LAK 18,774	LAK 22,013	LAK 21,715	LAK 21,889
		S	USD 1 =	LAK 18,913	LAK 22,154	LAK 21,976	LAK 22,036
		B	EUR 1 =	LAK 20,319	LAK 24,306	LAK 24,371	LAK 23,778
		S	EUR 1 =	LAK 20,520	LAK 24,547	LAK 24,613	LAK 24,014
Latvia							
Riga	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
Lebanon							
Beirut	Lebanese pound = 100 piastres LBP	M	USD 1 =	LBP 13,875.63	LBP 89,500.00	LBP 89,500.00	LBP 89,500.00
		M	EUR 1 =	LBP 15,050.00	LBP 99,139.00	LBP 100,294.00	LBP 97,313.00

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Lesotho ¹							
Maseru	Loti = 100 lisente LSL	M	USD 1 =	LSL 18.4883	LSL 17.7098	LSL 17.1984	LSL 17.7343
		M	EUR 1 =	LSL 19.9987	LSL 19.6306	LSL 19.1822	LSL 19.1186
Liberia ¹							
Monrovia	Liberian dollar = 100 cents LRD	B	USD 1 =	LRD 175.3089	LRD 194.2579	LRD 192.5182	LRD 191.0561
		S	USD 1 =	LRD 177.2670	LRD 195.7861	LRD 194.9936	LRD 192.3502
	V, B	EUR 1 =	LRD 189.8646	LRD 215.3737	LRD 215.5434	LRD 207.9072	
	V, S	EUR 1 =	LRD 191.9861	LRD 217.0680	LRD 218.3148	LRD 209.3155	
Libya							
Tripoli	Libyan dinar = 1,000 dirham LYD	B	USD 1 =	LYD 4.7997	LYD 4.7493	LYD 4.7229	LYD 4.8079
		S	USD 1 =	LYD 4.8237	LYD 4.7731	LYD 4.7466	LYD 4.8320
	B	EUR 1 =	LYD 5.1969	LYD 5.2941	LYD 5.2717	LYD 5.2166	
	S	EUR 1 =	LYD 5.2229	LYD 5.3206	LYD 5.2982	LYD 5.2427	
Lithuania							
Vilnius	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
Luxembourg							
Luxembourg	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
Macao ¹							
Macao	Pataca = 100 avos MOP	B	USD 1 =	MOP 8.0589	MOP 8.0242	MOP 7.9931	MOP 7.9977
		S	USD 1 =	MOP 8.0851	MOP 8.0504	MOP 8.0193	MOP 8.0239
	B	EUR 1 =	MOP 8.7210	MOP 8.8813	MOP 8.9421	MOP 8.6742	
	S	EUR 1 =	MOP 8.7602	MOP 8.9205	MOP 8.9813	MOP 8.7134	
Madagascar							
Antananarivo	Ariary = 5 iraimbilanja MGA	M	USD 1 =	MGA 4,431.43	MGA 4,542.19	MGA 4,537.16	MGA 4,596.07
		M	EUR 1 =	MGA 4,778.84	MGA 4,973.33	MGA 5,005.12	MGA 4,965.27
Malawi							
Lilongwe	Malawi kwacha = 100 tambala MWK	B	USD 1 =	MWK 1,153.2122	MWK 1,717.0236	MWK 1,717.0236	MWK 1,717.0236
		S	USD 1 =	MWK 1,175.9452	MWK 1,751.0000	MWK 1,751.0000	MWK 1,751.0000
	B	EUR 1 =	MWK 1,288.5153	MWK 1,959.0055	MWK 1,974.2149	MWK 1,919.0366	
	S	EUR 1 =	MWK 1,313.9172	MWK 1,997.7701	MWK 2,013.2805	MWK 1,957.0104	
Malaysia							
Kuala Lumpur Seat of government: Putrajaya	Malaysian ringgit = 100 sen MYR	B	USD 1 =	MYR 4.4745	MYR 4.2290	MYR 4.0254	MYR 4.2764
		S	USD 1 =	MYR 4.6410	MYR 4.4060	MYR 4.2006	MYR 4.4626
	B	EUR 1 =	MYR 4.8485	MYR 4.6784	MYR 4.4929	MYR 4.6256	
	S	EUR 1 =	MYR 5.0494	MYR 4.8899	MYR 4.6960	MYR 4.8347	

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Maldives							
Malé	Rufiyaa = 100 laari MVR	M	USD 1 =	MVR 15.39	MVR 15.41	MVR 15.38	MVR 15.41
		V	EUR 1 =	MVR 16.66483	MVR 17.08507	MVR 17.21945	MVR 16.76916
Mali 1							
Bamako	CFA franc XOF	B	USD 1 =	XOF 601.85	XOF 588.00	XOF 582.75	XOF 600.50
		S	USD 1 =	XOF 608.85	XOF 595.00	XOF 589.75	XOF 607.50
		z	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Malta							
Valletta	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
Mauritania							
Nouakchott	Ouguiya MRU	M	USD 1 =	MRU 36.72	MRU 39.60	MRU 39.56	MRU 39.74
		M	EUR 1 =	MRU 39.82	MRU 43.93	MRU 44.28	MRU 43.21
Mauritius							
Port Louis	Mauritian rupee = 100 cents MUR	B	USD 1 =	MUR 44.6368	MUR 46.0564	MUR 45.4486	MUR 45.6714
		S	USD 1 =	MUR 45.5361	MUR 46.9557	MUR 46.3479	MUR 46.5707
		B	EUR 1 =	MUR 48.2684	MUR 51.1185	MUR 50.9048	MUR 49.5023
		S	EUR 1 =	MUR 49.6148	MUR 52.5787	MUR 52.3636	MUR 50.9209
Mexico							
Mexico City	Mexican peso = 100 centavos MXN	M	USD 1 =	MXN 17.7608	MXN 19.7027	MXN 19.6921	MXN 20.0109
		V	EUR 1 =	MXN 19.0886	MXN 21.8444	MXN 22.0473	MXN 21.7759
Moldova, Republic of							
Chisinau	Moldovan leu = 100 bani MDL	M	USD 1 =	MDL 18.1627	MDL 17.3995	MDL 17.4250	MDL 17.9247
		M	EUR 1 =	MDL 19.6390	MDL 19.3117	MDL 19.4506	MDL 19.4018
Mongolia							
Ulan Bator	Togrog = 100 mongo MNT	M	USD 1 =	MNT 3,463.80	MNT 3,380.94	MNT 3,380.93	MNT 3,404.64
		M	EUR 1 =	MNT 3,754.18	MNT 3,747.60	MNT 3,777.34	MNT 3,695.91
Morocco							
Rabat	Moroccan dirham = 100 centimes MAD	M	USD 1 =	MAD 10.1361	MAD 9.7259	MAD 9.6975	MAD 9.8444
		M	EUR 1 =	MAD 10.9572	MAD 10.7737	MAD 10.8482	MAD 10.6968

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Mozambique							
Maputo	Metical = 100 centavos	B S	USD 1 =	MZN 63.25	MZN 63.27	MZN 63.27	MZN 63.27
			USD 1 =	MZN 64.52	MZN 64.54	MZN 64.54	
	MZN	B S	EUR 1 =	MZN 68.53	MZN 70.03	MZN 70.80	MZN 68.85
EUR 1 =			MZN 69.90	MZN 71.43	MZN 72.22	MZN 70.23	
Myanmar							
Nay Pyi Taw	Kyat = 100 pyas	M M	USD 1 =	MMK 2,100.00	MMK 2,100.00	MMK 2,100.00	MMK 2,100.00
			EUR 1 =	MMK 2,275.13	MMK 2,326.20	MMK 2,352.90	MMK 2,279.70
MMK							
Namibia ¹							
Windhoek	Namibia dollar = 100 cents	M M	USD 1 =	NAD 18.5075	NAD 17.7518	NAD 17.0928	NAD 17.6751
			EUR 1 =	NAD 20.0517	NAD 19.6623	NAD 19.0776	NAD 19.1776
NAD							
Nepal							
Kathmandu	Nepalese rupee = 100 paisa	B S	USD 1 =	NPR 131.85	NPR 133.89	NPR 133.63	NPR 134.23
			USD 1 =	NPR 132.45	NPR 134.49	NPR 134.23	NPR 134.83
	NPR	B S	EUR 1 =	NPR 142.95	NPR 148.39	NPR 149.18	NPR 145.39
EUR 1 =			NPR 143.60	NPR 149.06	NPR 149.85	NPR 146.04	
Netherlands							
Amsterdam Seat of government: The Hague	Euro = 100 cent	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
	EUR						
New Caledonia ¹							
Nouméa	CFP franc	V 2	XPF 1,000 =	USD 9.06	USD 9.29	USD 9.38	USD 9.12
			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 0.6258	USD 0.6389	USD 0.6492	USD 0.6075
			NZD 1 =	USD 0.6022	USD 0.6149	USD 0.6249	USD 0.5888
	NZD	B S	NZD 1 =	EUR 0.5770	EUR 0.5769	EUR 0.5813	EUR 0.5593
NZD 1 =			EUR 0.5551	EUR 0.5552	EUR 0.5595	EUR 0.5421	
Nicaragua							
Managua	Córdoba = 100 centavos	M V	USD 1 =	NIO 36.4571	NIO 36.6243 ³	NIO 36.6243 ³	NIO 36.6243 ³
			EUR 1 =	NIO 39.47779	NIO 40.60536	NIO 41.00457	NIO 39.85456
	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. ³ 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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Niger ¹							
Niamey	CFA franc	B	USD 1 =	XOF 601.85	XOF 588.00	XOF 582.75	XOF 600.50
		S	USD 1 =	XOF 608.85	XOF 595.00	XOF 589.75	XOF 607.50
		2	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Nigeria ¹							
Abuja	Naira = 100 kobo	B	USD 1 =	NGN 647.871	NGN 1,597.642	NGN 1,600.528	NGN 1,669.470
		S	USD 1 =	NGN 648.871	NGN 1,598.642	NGN 1,601.528	NGN 1,670.470
	B	EUR 1 =	NGN 702.5779	NGN 1,770.9862	NGN 1,788.5900	NGN 1,813.7122	
	S	EUR 1 =	NGN 703.6573	NGN 1,772.0947	NGN 1,789.7075	NGN 1,814.7986	
North Macedonia							
Skopje	North Macedonia denar = 100 deni	B	USD 1 =	MKD 56.5163	MKD 55.1746	MKD 54.8351	MKD 56.5712
		S	USD 1 =	MKD 57.0843	MKD 55.7292	MKD 55.3863	MKD 57.1398
	B	EUR 1 =	MKD 61.2523	MKD 61.1721	MKD 61.1850	MKD 61.1818	
	S	EUR 1 =	MKD 61.8679	MKD 61.7869	MKD 61.8000	MKD 61.7966	
Norway							
Oslo	Norwegian krone = 100 øre	B	USD 1 =	NOK 10.5283	NOK 10.4488	NOK 10.4627	NOK 10.9102
		S	USD 1 =	NOK 10.6043	NOK 10.5428	NOK 10.5567	NOK 11.0042
	B	EUR 1 =	NOK 11.4231	NOK 11.5893	NOK 11.6946	NOK 11.8511	
	S	EUR 1 =	NOK 11.5081	NOK 11.6833	NOK 11.7886	NOK 11.9451	
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 0.4159552	OMR 0.4275840	OMR 0.4286976	OMR 0.4165632	
	S	EUR 1 =	OMR 0.4171700	OMR 0.4287360	OMR 0.4298525	OMR 0.4176865	
Pakistan							
Islamabad	Pakistani rupee = 100 paisa	B	USD 1 =	PKR 280.92	PKR 278.60	PKR 277.55	PKR 277.70
		S	USD 1 =	PKR 281.42	PKR 279.10	PKR 278.05	PKR 278.20
	B	EUR 1 =	PKR 305.32	PKR 309.17	PKR 310.06	PKR 301.42	
	S	EUR 1 =	PKR 305.86	PKR 309.72	PKR 310.62	PKR 301.96	
Panama ¹							
Panama City	Balboa = 100 centésimos PAB	4	USD 1 =	PAB 1	PAB 1	PAB 1	PAB 1
		V	EUR 1 =	PAB 1.0813	PAB 1.1087	PAB 1.1196	PAB 1.0882
Papua New Guinea							
Port Moresby	Kina = 100 toea	B	PGK 1 =	USD 0.2853	USD 0.2642	USD 0.2627	USD 0.2609
		S	PGK 1 =	USD 0.2703	USD 0.2492	USD 0.2477	USD 0.2459
	B	EUR 1 =	EUR 0.2567	EUR 0.2322	EUR 0.2289	EUR 0.2339	
	S	EUR 1 =	EUR 0.2417	EUR 0.2172	EUR 0.2139	EUR 0.2189	

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Paraguay							
Asunción	Guaraní = 100 céntimos	B	USD 1 =	PYG 7,286.84	PYG 7,656.08	PYG 7,789.90	PYG 7,871.95
		S	USD 1 =	PYG 7,298.73	PYG 7,685.05	PYG 7,796.79	PYG 7,879.87
	PYG	V, B V, S	EUR 1 = EUR 1 =	PYG 7,870.63 PYG 7,883.48	PYG 8,488.30 PYG 8,520.41	PYG 8,691.97 PYG 8,699.66	PYG 8,566.26 PYG 8,574.87
Peru							
Lima	Sol = 100 céntimos	B	USD 1 =	PEN 3.741	PEN 3.739	PEN 3.703	PEN 3.761
		S	USD 1 =	PEN 3.748	PEN 3.750	PEN 3.714	PEN 3.775
	PEN	B	EUR 1 =	PEN 3.918	PEN 3.794	PEN 3.905	PEN 4.044
		S	EUR 1 =	PEN 4.253	PEN 4.425	PEN 4.417	PEN 4.299
Philippines							
Manila	Philippine peso = 100 centavos	B	USD 1 =	PHP 55.56	PHP 55.75	PHP 55.70	PHP 57.95
		S	USD 1 =	PHP 56.15	PHP 56.25	PHP 56.20	PHP 58.45
	PHP	B	EUR 1 =	PHP 58.8623	PHP 60.7452	PHP 61.1923	PHP 61.8319
		S	EUR 1 =	PHP 61.6044	PHP 63.8701	PHP 64.2312	PHP 64.5992
Poland							
Warsaw	Polish zloty = 100 groszy PLN	M	USD 1 =	PLN 4.2030	PLN 3.8644	PLN 3.8193	PLN 4.0059
		M	EUR 1 =	PLN 4.5284	PLN 4.2798	PLN 4.2791	PLN 4.3530
Portugal							
Lisbon	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
Qatar							
Doha	Qatari riyal = 100 dirham QAR	2	USD 1 =	QAR 3.6400	QAR 3.6400	QAR 3.6400	QAR 3.6400
		V	EUR 1 =	QAR 3.9416	QAR 4.0357	QAR 4.0753	QAR 3.9611
Romania							
Bucharest	Romanian leu = 100 bani RON	M	USD 1 =	RON 4.5758	RON 4.4906	RON 4.4451	RON 4.5757
		M	EUR 1 =	RON 4.9520	RON 4.9769	RON 4.9756	RON 4.9745
Russian Federation							
Moscow	Russian rouble = 100 kopecks RUB	M	USD 1 =	RUB 85.8116	RUB 91.1868	RUB 92.7126	RUB 97.0530
		3	EUR 1 =	RUB 92.7583	RUB 100.7622	RUB 103.4694	RUB 105.2211

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Rwanda							
Kigali	Rwanda franc = 100 centimes	B	USD 1 =	RWF 1,152.11758	RWF 1,321.60087	RWF 1,332.63077	RWF 1,348.15807
		S	USD 1 =	RWF 1,175.15760	RWF 1,348.03022	RWF 1,359.28069	RWF 1,375.11851
	RWF	B	EUR 1 =	RWF 1,249.90752	RWF 1,463.40864	RWF 1,487.41583	RWF 1,462.41447
		S	EUR 1 =	RWF 1,274.90315	RWF 1,492.67386	RWF 1,517.16114	RWF 1,491.65980
Saint Helena, Ascension and Tristan da Cunha							
Jamestown	Saint Helena pound 2 = 100 pence SHP	V	USD 1 =	SHP 0.80439	SHP 0.75873	SHP 0.74619	SHP 0.76965
		V	EUR 1 =	SHP 0.86979	SHP 0.84120	SHP 0.83543	SHP 0.83753
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 2.9068	XCD 2.9804	XCD 3.0097	XCD 2.9253
		V, S	EUR 1 =	XCD 2.9378	XCD 3.0122	XCD 3.0418	XCD 2.9565
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 2.9068	XCD 2.9804	XCD 3.0097	XCD 2.9253
		V, S	EUR 1 =	XCD 2.9378	XCD 3.0122	XCD 3.0418	XCD 2.9565
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 2.9068	XCD 2.9804	XCD 3.0097	XCD 2.9253
		V, S	EUR 1 =	XCD 2.9378	XCD 3.0122	XCD 3.0418	XCD 2.9565
Samoa							
Apia	Tala = 100 sene WST	M	WST 1 =	USD 0.36488	USD 0.36897	USD 0.37142	USD 0.35993
		M	WST 1 =	EUR 0.33646	EUR 0.33299	EUR 0.33279	EUR 0.33152
Sao Tome and Principe							
São Tomé	Dobra = 100 cêntimos	B	USD 1 =	STN 22.5869	STN 22.0960	STN 21.9632	STN 22.6537
		S	USD 1 =	STN 22.9257	STN 22.4274	STN 22.2927	STN 22.9935
	STN	4	EUR 1 =	STN 24.5000	STN 24.5000	STN 24.5000	STN 24.5000
Saudi Arabia							
Riyadh	Saudi riyal = 100 halalah SAR	3	USD 1 =	SAR 3.75	SAR 3.75	SAR 3.75	SAR 3.75
		V	EUR 1 =	SAR 4.05476	SAR 4.15763	SAR 4.19850	SAR 4.08075

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Senegal ¹							
Dakar	CFA franc	B	USD 1 =	XOF 601.85	XOF 588.00	XOF 582.75	XOF 600.50
		S	USD 1 =	XOF 608.85	XOF 595.00	XOF 589.75	XOF 607.50
	XOF	2	EUR 1 =	XOF 655.957	XOF 655.957	XOF 655.957	XOF 655.957
Serbia							
Belgrade	Serbian dinar = 100 para	B	USD 1 =	RSD 107.8157	RSD 105.3274	RSD 104.5524	RSD 107.4954
		S	USD 1 =	RSD 108.4645	RSD 105.9612	RSD 105.1816	RSD 108.1424
	RSD	B	EUR 1 =	RSD 116.8967	RSD 116.6711	RSD 116.7327	RSD 116.6755
		S	EUR 1 =	RSD 117.6001	RSD 117.3733	RSD 117.4353	RSD 117.3777
Seychelles							
Victoria	Seychelles rupee = 100 cents	B	USD 1 =	SCR 13.7626	SCR 14.2006	SCR 14.4416	SCR 14.5142
		S	USD 1 =	SCR 14.1907	SCR 14.7736	SCR 14.7522	SCR 14.9071
	SCR	B	EUR 1 =	SCR 14.8107	SCR 16.1583	SCR 15.9960	SCR 15.6491
		S	EUR 1 =	SCR 15.4809	SCR 16.5318	SCR 16.5388	SCR 16.2190
Sierra Leone							
Freetown	Leone = 100 cents	M	USD 1 =	SLE 21.54000	SLE 22.55725	SLE 22.57725	SLE 22.58470
		M	EUR 1 =	SLE 23.31984	SLE 25.00275	SLE 25.27120	SLE 24.52290
	SLE						
Singapore ¹							
Singapore	Singapore dollar = 100 cents	M	USD 1 =	SGD 1.3406	SGD 1.3032	SGD 1.2806	SGD 1.3253
		M	EUR 1 =	SGD 1.4538	SGD 1.4430	SGD 1.4290	SGD 1.4332
	SGD						
Sint Maarten (southern part)							
Philipsburg	Netherlands Antillean guilder = 100 cents	3 B	USD 1 =	ANG 1.78	ANG 1.78	ANG 1.78	ANG 1.78
		3 S	USD 1 =	ANG 1.82	ANG 1.82	ANG 1.82	ANG 1.82
	ANG	B	EUR 100 =	ANG 192.90	ANG 197.36	ANG 199.35	ANG 193.49
		S	EUR 100 =	ANG 196.79	ANG 201.34	ANG 203.37	ANG 197.39
Slovakia							
Bratislava	Euro = 100 cent		M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196
	EUR						
Slovenia							
Ljubljana	Euro = 100 cent		M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196
	EUR						
Solomon Islands							
Honiara	Solomon Islands dollar = 100 cents	M	SBD 1 =	USD 0.1193	USD 0.1192	USD 0.1206	USD 0.1193
		M	SBD 1 =	EUR 0.11007	EUR 0.10750	EUR 0.10810	EUR 0.10990
	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 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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
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 18.2542	ZAR 17.5017	ZAR 17.0477	ZAR 17.4652
		S	USD 1 =	ZAR 18.6240	ZAR 17.8711	ZAR 17.4141	ZAR 17.8319
	ZAR	B	EUR 1 =	ZAR 19.6917	ZAR 19.2575	ZAR 18.9260	ZAR 18.8448
		S	EUR 1 =	ZAR 20.3482	ZAR 19.9148	ZAR 19.5775	ZAR 19.4907
South Sudan							
Juba	South Sudanese pound = 100 piastres SSP	M	USD 1 =	SSP 945.9889	SSP 2,993.5677	SSP 3,156.7243	SSP 3,281.3166
		M	EUR 1 =	SSP 1,025.32653	SSP 3,321.36790	SSP 3,530.16955	SSP 3,557.76995
Spain							
Madrid	Euro = 100 cent EUR	M	EUR 1 =	USD 1.0813	USD 1.1087	USD 1.1196	USD 1.0882
Sri Lanka							
Colombo	Sri Lanka rupee = 100 cents	B	USD 1 =	LKR 322.6446	LKR 295.3866	LKR 293.5054	LKR 289.0630
		S	USD 1 =	LKR 335.1466	LKR 304.5824	LKR 302.5647	LKR 298.1487
	LKR	B	EUR 1 =	LKR 348.3617	LKR 325.4653	LKR 325.8904	LKR 311.2012
		S	EUR 1 =	LKR 365.0789	LKR 339.0292	LKR 339.3060	LKR 324.1502
Sudan							
Khartoum	Sudanese pound = 100 piastres	B	USD 1 =	SDG 640.22	SDG 1,950.00	SDG 1,982.00	SDG 1,987.00
		S	USD 1 =	SDG 646.02	SDG 1,964.63	SDG 1,996.87	SDG 2,001.91
	SDG	B	EUR 1 =	SDG 678.75	SDG 2,093.82	SDG 2,150.55	SDG 2,094.79
		S	EUR 1 =	SDG 689.42	SDG 2,130.84	SDG 2,188.57	SDG 2,131.84
Suriname							
Paramaribo	Suriname dollar = 100 cents	B	USD 1 =	SRD 36.758	SRD 28.921	SRD 30.528	SRD 34.444
		S	USD 1 =	SRD 37.032	SRD 29.161	SRD 31.082	SRD 34.961
	SRD	B	EUR 1 =	SRD 39.318	SRD 31.875	SRD 33.981	SRD 37.117
		S	EUR 1 =	SRD 39.797	SRD 32.307	SRD 34.574	SRD 37.429
Sweden							
Stockholm	Swedish krona = 100 öre SEK	M	USD 1 =	SEK 10.61284	SEK 10.22414	SEK 10.09289	SEK 10.68811
		M	EUR 1 =	SEK 11.4692	SEK 11.3355	SEK 11.3000	SEK 11.6308

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Switzerland							
Berne	Swiss franc = 100 rappen/centimes CHF	B	USD 1 =	CHF 0.8988	CHF 0.8485	CHF 0.8433	CHF 0.8653
		B	EUR 1 =	CHF 0.9716	CHF 0.9401	CHF 0.9448	CHF 0.9402
Syrian Arab Republic							
Damascus	Syrian pound = 100 piastres SYP	B	USD 1 =	SYP 7,833.33	SYP 13,600.00	SYP 13,600.00	SYP 13,600.00
		S	USD 1 =	SYP 7,911.67	SYP 13,736.00	SYP 13,736.00	SYP 13,736.00
		B	EUR 1 =	SYP 8,490.03	SYP 15,142.24	SYP 15,180.32	SYP 14,754.64
		S	EUR 1 =	SYP 8,574.93	SYP 15,293.66	SYP 15,332.12	SYP 14,902.19
Tajikistan							
Dushanbe	Somoni = 100 diram TJS	M	USD 1 =	TJS 10.8587	TJS 10.6776	TJS 10.6506	TJS 10.6549
		M	EUR 1 =	TJS 11.7744	TJS 11.8361	TJS 11.8882	TJS 11.5425
Tanzania, United Republic of							
Dodoma Seat of government: Dar es Salaam	Tanzania shilling = 100 cents TZS	B	USD 1 =	TZS 2,379.0330	TZS 2,668.3168	TZS 2,704.9505	TZS 2,679.7327
		S	USD 1 =	TZS 2,402.8233	TZS 2,695.0000	TZS 2,732.0000	TZS 2,706.5300
		B	EUR 1 =	TZS 2,580.2965	TZS 2,955.6946	TZS 3,024.9461	TZS 2,902.4185
		S	EUR 1 =	TZS 2,606.7667	TZS 2,985.5210	TZS 3,055.4688	TZS 2,931.7133
Thailand							
Bangkok	Thai baht = 100 satang THB	B	USD 1 =	THB 34.5912	THB 33.8047	THB 32.1264	THB 33.5901
		S	USD 1 =	THB 34.9173	THB 34.1297	THB 32.4563	THB 33.9135
		B	EUR 1 =	THB 37.3372	THB 37.2566	THB 35.6787	THB 36.2822
		S	EUR 1 =	THB 38.0687	THB 37.9820	THB 36.4028	THB 36.9639
Togo ¹							
Lomé	CFA franc XOF	B	USD 1 =	XOF 601.85	XOF 588.00	XOF 582.75	XOF 600.50
		S	USD 1 =	XOF 608.85	XOF 595.00	XOF 589.75	XOF 607.50
		2	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 0.4234	USD 0.4268	USD 0.4293	USD 0.4200
		M	TOP 1 =	EUR 0.3891	EUR 0.3852	EUR 0.3845	EUR 0.3866
Trinidad and Tobago							
Port-of-Spain	Trinidad and Tobago dollar = 100 cents TTD	B	USD 1 =	TTD 6.7043	TTD 6.6870	TTD 6.7029	TTD 6.6842
		S	USD 1 =	TTD 6.7708	TTD 6.7671	TTD 6.7750	TTD 6.7775
		B	EUR 1 =	TTD 7.2901	TTD 7.4139	TTD 7.5046	TTD 7.2738
		S	EUR 1 =	TTD 7.8575	TTD 7.5027	TTD 7.5853	TTD 7.3753

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Tunisia							
Tunis	Tunisian dinar = 1,000 millimes	B	USD 1 =	TND 3.0933	TND 3.0524	TND 3.0306	TND 3.1041
		S	USD 1 =	TND 3.0964	TND 3.0554	TND 3.0337	TND 3.1073
	TND	B	EUR 1 =	TND 3.3506	TND 3.3822	TND 3.3870	TND 3.3691
		S	EUR 1 =	TND 3.3539	TND 3.3855	TND 3.3903	TND 3.3724
Turkey							
Ankara	Turkish lira = 100 kuruş	B	USD 1 =	TRY 23.7311	TRY 33.9626	TRY 34.0900	TRY 34.2095
		S	USD 1 =	TRY 23.7738	TRY 34.0238	TRY 34.1514	TRY 34.2711
	TRY	B	EUR 1 =	TRY 26.1530	TRY 37.6723	TRY 38.0180	TRY 37.0474
		S	EUR 1 =	TRY 26.2002	TRY 37.7402	TRY 38.0865	TRY 37.1142
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 3.7926	TMT 3.8784	TMT 3.9071	TMT 3.7933
Uganda							
Kampala	Uganda shilling	B	USD 1 =	UGX 3,729.77	UGX 3,710.82	UGX 3,686.77	UGX 3,659.68
		S	USD 1 =	UGX 3,739.74	UGX 3,720.82	UGX 3,696.77	UGX 3,669.68
	UGX	B	EUR 1 =	UGX 4,041.70	UGX 4,110.48	UGX 4,115.54	UGX 3,971.48
		S	EUR 1 =	UGX 4,052.49	UGX 4,121.55	UGX 4,126.70	UGX 3,982.34
Ukraine							
Kyiv	Hryvnia = 100 kopyok UAH	M	USD 1 =	UAH 36.5670	UAH 41.1901	UAH 41.1664	UAH 41.2790
		M	EUR 1 =	UAH 39.5387	UAH 45.7045	UAH 45.9541	UAH 44.6350
United Arab Emirates ¹							
Abu Dhabi	United Arab Emirates dirham = 100 fils AED	2	USD 1 =	AED 3.6725	AED 3.6725	AED 3.6725	AED 3.6725
		V	EUR 1 =	AED 3.9710	AED 4.0717	AED 4.1117	AED 3.9964
United Kingdom ¹							
London	Pound sterling = 100 pence GBP	M	GBP 1 =	USD 1.2434	USD 1.3144	USD 1.3413	USD 1.2856
		M	EUR 1 =	GBP 0.8679	GBP 0.8421	GBP 0.8319	GBP 0.8444
United States							
Washington	US dollar = 100 cents USD	M	EUR 1 =	USD 1.0816	USD 1.1047	USD 1.1134	USD 1.0883
		M	GBP 1 =	USD 1.2438	USD 1.3126	USD 1.3370	USD 1.2898

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 2023	Rate at end of month		
					August 2024	September 2024	October 2024
Uruguay							
Montevideo	Uruguayan peso = 100 centésimos UYU	M	USD 1 =	UYU 38.820	UYU 40.335	UYU 41.640	UYU 41.649
		M	EUR 1 =	UYU 41.9776	UYU 44.5742	UYU 46.3370	UYU 45.2808
Uzbekistan							
Tashkent	Uzbekistan sum = 100 tiyin UZS	M	USD 1 =	UZS 11,757.77	UZS 12,625.01	UZS 12,715.42	UZS 12,774.34
		M	EUR 1 =	UZS 12,743.17	UZS 14,006.19	UZS 14,190.41	UZS 13,848.66
Vanuatu							
Port Vila	Vatu VUV	B	USD 1 =	VUV 116.52	VUV 114.84	VUV 113.82	VUV 117.42
		S	USD 1 =	VUV 123.93	VUV 122.15	VUV 121.06	VUV 124.89
		B	EUR 1 =	VUV 127.43	VUV 128.20	VUV 128.02	VUV 128.46
		S	EUR 1 =	VUV 132.58	VUV 133.38	VUV 133.19	VUV 133.65
Venezuela, Bolivarian Republic of ¹							
Caracas	Bolívar = 100 céntimos VES	B	USD 1 =	VES 29.372959	VES 36.553787	VES 36.830393	VES 42.603325
		S	USD 1 =	VES 29.446575	VES 36.645400	VES 36.922700	VES 42.710100
		B	EUR 1 =	VES 31.814808	VES 40.463945	VES 41.083935	VES 46.250595
		S	EUR 1 =	VES 31.894545	VES 40.565358	VES 41.186903	VES 46.366512
Viet Nam							
Hanoi	Dong = 10 hào = 100 xu VND	B	USD 1 =	VND 23,691	VND 24,690	VND 24,400	VND 25,115
		S	USD 1 =	VND 24,031	VND 25,030	VND 24,740	VND 25,455
		B	EUR 1 =	VND 25,458.88	VND 27,103.86	VND 26,982.00	VND 27,019.13
		S	EUR 1 =	VND 26,607.00	VND 28,327.84	VND 28,178.34	VND 28,215.80
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 20.5262	ZMW 26.0744	ZMW 26.4574	ZMW 26.7318
		S	USD 1 =	ZMW 20.5739	ZMW 26.1244	ZMW 26.5074	ZMW 26.7818
		B	EUR 1 =	ZMW 22.2386	ZMW 28.8488	ZMW 29.5397	ZMW 29.0708
		S	EUR 1 =	ZMW 22.2959	ZMW 28.9067	ZMW 29.5982	ZMW 29.1279
Zimbabwe ¹							
Harare	Zimbabwe dollar / Zimbabwe gold = 100 cents ZWL / ZWG ¹	M	USD 1 =	ZWL 3,680.5195	ZWG 13.8546	ZWG 24.8831 ¹	ZWG 28.6802
		M	EUR 1 =	ZWL 3,991.7540	ZWG 15.3447	ZWG 27.7882 ¹	ZWG 31.1195

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*

2. Exchange rates of the US dollar against major currencies

USD 1 = CU ..., monthly averages¹, log. scale



* 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
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
2023	1.34167	1.21753	9.58727	190.454	1.053810	1.77933	1.14526	9.07779	13.72210	13.4605
2022 Nov.	1.31484	1.26719	9.39038	182.500	1.094700	1.77609	1.24864	9.42356	13.00750	13.8837
Dec.	1.33084	1.25291	9.29731	176.537	1.102790	1.81035	1.23808	9.31203	13.08650	13.9407
2023 Jan.	1.34847	1.24478	9.10606	175.854	1.094180	1.80021	1.24976	9.25969	13.57840	14.0447
Feb.	1.32879	1.25133	9.22824	181.100	1.098620	1.80834	1.24633	9.31532	13.28870	13.8066
Mar.	1.34523	1.23699	9.23975	179.561	1.087010	1.82050	1.23405	9.21379	14.09430	13.9284
Apr.	1.34701	1.22667	9.32557	180.566	1.080760	1.82897	1.20638	9.14336	14.46360	13.8587
May	1.32746	1.24260	9.43663	185.579	1.073650	1.80575	1.20872	9.25480	14.91670	14.3816
June	1.33007	1.22407	9.65670	192.701	1.051690	1.76102	1.19833	9.05633	14.32650	14.4325
July	1.34294	1.21830	9.59840	189.247	1.043830	1.76959	1.16809	9.07985	13.62130	14.1310
Aug.	1.32994	1.22372	9.69518	194.265	1.048850	1.79954	1.17194	9.11951	14.17060	14.4522
Sep.	1.31498	1.24125	9.57753	196.510	1.071920	1.77785	1.19808	9.25609	13.96830	14.2561
Oct.	1.31414	1.23753	9.61714	196.398	1.079150	1.82284	1.18601	9.23788	14.69390	14.6142
Nov.	1.33329	1.21973	9.50805	195.966	1.054770	1.81087	1.16729	9.09289	14.29520	13.9424
Dec.	1.34167	1.21753	9.58727	190.454	1.053810	1.77933	1.14526	9.07779	13.72210	13.4605
2024 Jan.	1.32988	1.22717	9.54946	196.158	1.048310	1.78165	1.14776	9.14854	13.92960	13.8280
Feb.	1.32756	1.22627	9.55064	199.931	1.049420	1.80151	1.16839	9.14068	14.09240	13.7526
Mar.	1.32405	1.22415	9.56562	200.262	1.049300	1.79325	1.19856	9.13676	14.31170	14.1083
Apr.	1.31793	1.22964	9.54444	206.678	1.050940	1.81163	1.20103	9.17111	14.52820	14.4520
May	1.32354	1.21963	9.58589	207.333	1.040350	1.80491	1.19913	9.09695	13.88300	13.9294
June	1.31534	1.22872	9.55767	211.705	1.039260	1.80031	1.18223	9.16322	14.00320	13.9576
July	1.32842	1.22684	9.59463	202.451	1.034480	1.83442	1.17007	9.15483	14.49810	14.2467
Aug.	1.34661	1.21458	9.54153	194.934	1.022290	1.81671	1.14327	9.05945	14.16440	13.7679
Sep.	1.35637	1.21148	9.51158	193.486	1.011730	1.82910	1.14512	9.03277	14.25250	13.6897
Oct.	1.33163	1.22370	9.48074	204.406	1.026110	1.84761	1.15253	9.19329	14.59510	14.2195
2024 Sep. 30	1.35637	1.21148	9.51158	193.486	1.011730	.	1.14512	9.03277	14.25250	13.6897
Oct. 1	1.35049	1.21819	.	194.537	1.013540	1.82370	1.14366	9.08496	14.29000	13.7832
2	1.34843	1.21798	.	194.012	1.015580	1.81917	1.14401	9.08529	14.21810	13.8235
3	1.34467	1.21811	.	197.693	1.025020	1.82068	1.14364	9.08645	14.27560	13.8389
4	1.34422	1.21880	.	197.170	1.020860	1.82505	1.14487	9.08975	14.24110	13.8182
7	1.33969	1.21989	.	198.890	1.025520	1.82318	1.14865	9.09703	14.21900	13.8653
8	1.34154	1.22158	9.45528	198.334	1.023800	1.83214	1.14903	9.11037	14.27670	13.8637
9	1.33984	1.22282	9.46468	198.564	1.023370	1.83424	1.14831	9.12059	14.41210	13.8937
10	1.33837	1.22427	9.46575	199.791	1.022320	1.84079	1.14919	9.13209	14.43660	13.9144
11	1.33818	1.22343	9.45814	198.921	1.024530	1.84147	1.14810	9.12800	14.36220	13.8908
15	1.33591	1.22527	9.51086	199.879	1.021220	1.84422	1.15115	9.14177	14.41650	13.8468
16	1.33476	1.22489	9.50056	199.214	1.025560	1.83810	1.15097	9.13885	14.45550	13.8976
17	1.33343	1.22716	9.50290	199.414	1.024890	1.83866	1.15168	9.15516	14.57060	14.0117
18	1.33318	1.22908	9.47688	200.017	1.021790	1.84006	1.15467	9.16599	14.51730	14.0367
21	1.33292	1.22815	9.48299	198.978	1.023550	1.84409	1.15204	9.16045	14.53890	14.0347
22	1.33107	1.23008	9.47903	200.605	1.025750	1.84020	1.15230	9.17347	14.54320	14.0235
23	1.32792	1.23332	9.46289	201.087	1.023360	1.83824	1.15091	9.19845	14.61800	14.0747
24	1.32967	1.23106	9.45600	203.041	1.025070	1.84093	1.15076	9.18350	14.54570	14.0575
25	1.33038	1.22899	9.47724	202.311	1.024350	1.84550	1.15324	9.16935	14.52600	14.0688
28	1.32969	1.22915	9.47966	203.961	1.023590	1.84761	1.15178	9.16758	14.64160	14.0995
29	1.32793	1.23254	9.48335	203.068	1.022550	.	1.15271	9.19329	14.59510	14.1951
30	1.32962	1.22942	9.47508	203.791	1.025030	.	1.15364	.	14.59510	14.1951
31	1.33163	1.22370	9.48074	204.406	1.026110	.	1.15253	.	14.59510	14.2195
Nov. 1	1.33128	1.22304	9.48407	203.020	1.030360	.	1.15495	.	14.62370	14.2540
4	1.33475	1.22409	9.47517	.	1.028510	1.85450	1.15082	9.12900	14.62370	14.2540
5	1.33379	1.22400	9.47804	203.229	1.026390	1.84783	1.14926	9.12925	14.63900	14.2798
6	1.32233	1.23640	9.46522	201.589	1.028370	1.84267	1.15929	9.21982	14.72430	14.4059
7	1.32524	1.22878	9.49361	204.882	1.026600	1.83757	1.16197	9.16347	14.43630	14.2526
8	1.32743	1.23230	9.49641	203.296	1.023740	1.84686	1.15606	9.18966	14.50840	14.2823
11	1.32064	1.23992	9.49145	202.190	1.024820	.	1.16117	9.24659	14.61430	14.3732
12	1.31788	1.24129	9.53380	202.677	1.027710	1.83765	1.16059	9.25892	14.57090	14.3270
13	1.31811	1.24011	9.52308	204.175	1.033450	1.84272	1.16310	9.25086	14.58920	14.3722
14	1.31182	1.24544	9.49451	204.185	1.036480	1.84009	1.16686	9.29005	14.64510	14.4508
15	1.31459	1.24217	9.50444	205.509	1.035800	1.85081	1.16702	9.26535	14.53210	14.3974
18	1.31259	1.24392	9.50841	202.532	1.040130	1.84313	1.16505	9.27859	14.57510	14.4295
19	1.31427	1.24245	9.51783	202.949	1.040100	1.83748	1.16102	9.26758	14.48640	14.3926
20	1.31309	1.24322	9.50841	203.371	1.036820	1.83740	1.16274	9.27343	14.47600	14.4275

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

VI. Global exchange rate arrangements and monetary policy framework *

As of end-April 2022

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

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

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

VI. Global exchange rate arrangements and monetary policy framework *

As of end-April 2022

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

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

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

VII. ISO currency codes *

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

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

Explanatory notes

Euro foreign exchange reference rates of the European Central Bank

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

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

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

Effective euro exchange rates

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

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

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

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 in conjunction with ECB Statistical Paper Series No 49 of June 2024, 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 September 2023

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

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

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

■ Value of the special drawing right

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

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

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

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

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

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

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

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

A "freely usable" currency is defined in the IMF's Articles of Agreement to mean a currency that the IMF determines

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

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

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

Global exchange rate arrangements and monetary policy framework

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

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

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

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

The monetary policy frameworks listed are as follows.

Exchange rate anchor

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

Monetary aggregate target

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

Inflation-targeting framework

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

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

Other

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

Explanatory notes on individual countries

Argentina

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

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

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

The Argentine Tax Authority (Administración Federal de Ingresos Públicos = AFIP) has been levying additional taxes on the aforementioned transactions since 16 September 2020, which have been raised in several stages – the last time in November 2023 – to a total of no more than 125%. With effect from 13 December 2023, the Argentine peso was devalued and the additional taxes of the AFIP were combined to a uniform tax rate of 30%.

In addition, since 4 November 2022, there has been a separate settlement exchange rate for non-residents making payments on selected foreign credit, debit and prepaid cards for tourism purposes; this rate stood at 1,150 Argentine pesos to the US dollar at the beginning of November 2024.

Bangladesh

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

Benin

Benin, Burkina Faso, Côte d'Ivoire, Guinea-Bissau, Mali, Niger, Senegal and Togo all belong to the West African Economic and Monetary Union (Union Économique et Monétaire Ouest Africaine = UEMOA). The responsible

monetary authority is the Banque Centrale des Etats de l'Afrique de l'Ouest, whose CFA franc (Franc de la Communauté Financière Africaine = F.CFA) is legal tender only in the aforementioned countries.

Bhutan

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

Bolivia, Plurinational State of

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

Brunei Darussalam

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

Burkina Faso

See Explanatory notes on Benin.

Cameroon

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

Central African Republic

See Explanatory notes on Cameroon.

Chad

See Explanatory notes on Cameroon.

Congo

See Explanatory notes on Cameroon.

Cook Islands

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

Côte d'Ivoire

See Explanatory notes on Benin.

Cuba

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

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

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

In addition, it is understood that there is a black market where, according to press reports, the exchange rate to the US dollar stood at 330 Cuban pesos at the beginning of November 2024.

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

El Salvador

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

Equatorial Guinea

See Explanatory notes on Cameroon.

Eswatini

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

Gabon

See Explanatory notes on Cameroon.

Guinea-Bissau

See Explanatory notes on Benin.

India

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

Iran, Islamic Republic of

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

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

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

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

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

Kenya

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

Korea, Democratic People's Republic of

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

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 is a different, black market rate 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.

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.

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

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

The Zimbabwe gold was devalued on 27 September 2024. We recorded the following exchange rates:

26 September 2024	USD 1 = ZWG 13.9987
	EUR 1 = ZWG 15.6036

27 September 2024	USD 1 = ZWG 24.3902
	EUR 1 = ZWG 27.1659.

Calculated using these exchange rates, the Zimbabwe gold experienced a devaluation of 42.6% against the US dollar and the euro.

According to the press release of the Reserve Bank of Zimbabwe, Zimbabwe gold (ISO currency code: ZWG) was introduced as new legal tender with effect from 8 April 2024. The conversion from old to new currency took place at a rate of ZWL 2,498.7242 = ZWG 1.

