

**TABLE B–60. Foreign exchange rates, 2002–2022**  
 [Foreign currency units per U.S. dollar, except as noted; certified noon buying rates in New York]

Period	Australia (dollar) <sup>1</sup>	Brazil (real)	Canada (dollar)	China, PR. (yuan)	EMU Members (euro) <sup>1,2</sup>	India (rupee)	Japan (yen)	Mexico (peso)	South Korea (won)	Sweden (krona)	Switzer- land (franc)	United Kingdom (pound) <sup>1</sup>
March 1973 .....	1.4129	.....	0.9967	2.2401	.....	7.55	261.90	0.013	398.85	4.4294	3.2171	2.4724
2002 .....	5437	2,9213	1.5704	8.2771	0.9454	48.63	125.22	9.663	1,250.31	9.7233	1.5567	1.5025
2003 .....	6524	3.0750	1.4008	8.2772	1.1321	46.59	115.94	10.793	1,192.08	8.0787	1.3450	1.6347
2004 .....	7365	2.9262	1.3017	8.2768	1.2438	45.26	108.15	11.290	1,145.24	7.3480	1.2428	1.8330
2005 .....	7627	2.4352	1.2115	8.1936	1.2449	44.00	110.11	10.894	1,023.75	7.4710	1.2459	1.8204
2006 .....	7535	2.1738	1.1340	7.9723	1.2563	45.19	116.31	10.906	954.32	7.3718	1.2532	1.8434
2007 .....	8391	1.9461	1.0734	7.6058	1.3711	41.18	117.76	10.928	928.97	6.7550	1.1999	2.0020
2008 .....	8537	1.8326	1.0660	6.9477	1.4726	43.39	103.39	11.143	1,098.71	6.5846	1.0816	1.8545
2009 .....	7927	1.9976	1.1412	6.8307	1.3935	48.33	93.807	13.498	1,274.63	7.6539	1.0860	1.5661
2010 .....	9200	1.7600	1.0298	6.7696	1.3261	45.65	87.78	12.624	1,155.74	7.2053	1.0432	1.5452
2011 .....	1.0332	1.6723	.9887	6.4630	1.3931	46.58	79.70	12.427	1,106.94	6.4878	.8862	1.6043
2012 .....	1.0359	1.9535	.9995	6.3093	1.2859	53.37	79.82	13.154	1,126.16	6.7721	.9377	1.5853
2013 .....	.9683	2.1570	1.0300	6.1478	1.3281	58.51	97.60	12.758	1,094.67	6.5124	.9269	1.5642
2014 .....	.9034	2.3512	1.1043	6.1620	1.3297	61.05	100.74	13.302	1,052.29	6.8576	.9147	1.6484
2015 .....	.7522	3.3360	1.2791	6.2827	1.1096	64.11	121.05	15.874	1,130.96	8.4350	.9628	1.5284
2016 .....	.7445	3.4839	1.3243	6.6400	1.1072	67.16	108.66	18.667	1,159.34	8.5541	.9848	1.3555
2017 .....	.7671	3.1910	1.2984	6.7569	1.1301	65.07	112.10	18.884	1,129.04	8.5430	.9842	1.2890
2018 .....	.7481	3.6513	1.2957	6.6090	1.1817	68.37	110.40	19.218	1,099.29	8.8945	.9784	1.3363
2019 .....	.6952	3.9440	1.3269	6.9081	1.1194	70.38	109.02	19.247	1,165.80	9.4604	.9937	1.2768
2020 .....	.6899	5.1587	1.3422	6.9042	1.1410	74.14	106.78	21.546	1,180.56	9.2167	.9389	1.2829
2021 .....	.7515	5.3958	1.2533	6.4508	1.1830	73.94	109.84	20.284	1,144.89	8.5812	.9144	1.3764
2022 .....	.6951	5.1605	1.3014	6.7290	1.0534	78.58	131.46	20.121	1,291.78	10.1177	.9550	1.2371
2021: I .....	.7729	5.4845	1.2656	6.4817	1.2045	72.90	106.17	20.374	1,114.81	8.4031	.9067	1.3798
II .....	.7701	5.2944	1.2285	6.4594	1.2050	73.79	109.43	20.013	1,121.30	8.4177	.9110	1.3981
III .....	.7344	5.2299	1.2600	6.4699	1.1784	74.10	110.07	20.030	1,160.08	8.6499	.9182	1.3789
IV .....	.7289	5.5889	1.2604	6.3914	1.1437	74.94	113.64	20.748	1,183.29	8.8557	.9216	1.3486
2022: I .....	.7249	5.2230	1.2664	6.3478	1.1216	75.24	116.36	20.506	1,206.18	9.3467	.9241	1.3407
II .....	.7144	4.9213	1.2764	6.6084	1.0646	77.19	129.73	20.053	1,260.46	9.8436	.9652	1.2564
III .....	.6833	5.2455	1.3062	6.8520	1.0066	79.78	138.35	20.234	1,341.11	10.5552	.9666	1.1767
IV .....	.6574	5.2550	1.3577	7.1120	1.0218	82.15	141.36	19.681	1,359.38	10.7252	.9636	1.1754
Trade-weighted value of the U.S. dollar												
Nominal							Real <sup>6</sup>					
	Broad index (January 2006=100) <sup>3</sup>	Advanced foreign economies index (January 2006=100) <sup>4</sup>	Emerging market economies index (January 2006=100) <sup>5</sup>				Broad index (January 2006=100) <sup>3</sup>	Advanced foreign economies index (January 2006=100) <sup>4</sup>	Emerging market economies index (January 2006=100) <sup>5</sup>			
2002 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2003 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2004 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2005 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2006 .....	98.6005	97.6833	99.8103	98.9357	98.3159	99.7520	98.6005	97.6833	99.8103	98.9357	98.3159	99.7520
2007 .....	93.8100	92.0715	96.1170	94.2696	93.6198	95.1227	93.8100	92.0715	96.1170	94.2696	93.6198	95.1227
2008 .....	90.8801	88.4517	94.1271	90.9839	90.8430	91.2092	90.8801	88.4517	94.1271	90.9839	90.8430	91.2092
2009 .....	96.7509	92.8232	101.9953	95.3414	94.7210	96.1195	96.7509	92.8232	101.9953	95.3414	94.7210	96.1195
2010 .....	93.0541	90.1336	97.1416	90.8045	92.0390	89.6167	93.0541	90.1336	97.1416	90.8045	92.0390	89.6167
2011 .....	88.7767	84.8522	93.9916	86.3069	87.3412	85.3008	88.7767	84.8522	93.9916	86.3069	87.3412	85.3008
2012 .....	91.6361	88.0233	96.5231	88.5167	90.8658	86.1946	91.6361	88.0233	96.5231	88.5167	90.8658	86.1946
2013 .....	92.7611	90.6492	96.0312	88.7296	93.8601	83.8221	92.7611	90.6492	96.0312	88.7296	93.8601	83.8221
2014 .....	95.5876	93.4349	98.9391	90.7229	97.0261	84.7836	95.5876	93.4349	98.9391	90.7229	97.0261	84.7836
2015 .....	108.1696	108.1483	109.5239	101.1916	111.8303	91.5859	108.1696	108.1483	109.5239	101.1916	111.8303	91.5859
2016 .....	113.0665	109.3636	118.1858	105.4110	114.0195	97.3978	113.0665	109.3636	118.1858	105.4110	114.0195	97.3978
2017 .....	112.8113	108.9531	118.0912	104.8598	114.1634	96.2894	112.8113	108.9531	118.0912	104.8598	114.1634	96.2894
2018 .....	112.0066	106.4922	119.0091	104.0918	112.2341	96.4658	112.0066	106.4922	119.0091	104.0918	112.2341	96.4658
2019 .....	115.7368	110.2693	122.7198	107.1994	116.7233	98.3771	115.7368	110.2693	122.7198	107.1994	116.7233	98.3771
2020 .....	117.7778	109.0592	128.3883	108.7699	116.4064	101.4855	117.7778	109.0592	128.3883	108.7699	116.4064	101.4855
2021 .....	113.1139	104.5232	123.5478	106.2938	114.1803	98.8358	113.1139	104.5232	123.5478	106.2938	114.1803	98.8358
2022 .....	120.6657	115.1260	128.0614	115.1378	127.0414	104.5105	120.6657	115.1260	128.0614	115.1378	127.0414	104.5105
2021: I .....	112.3724	103.4286	123.1729	104.2806	111.3393	97.4936	112.3724	103.4286	123.1729	104.2806	111.3393	97.4936
II .....	111.8371	102.8353	122.6943	104.8256	112.1988	97.7850	111.8371	102.8353	122.6943	104.8256	112.1988	97.7850
III .....	113.3104	104.9378	123.5115	106.8490	115.1189	99.0834	113.3104	104.9378	123.5115	106.8490	115.1189	99.0834
IV .....	114.9769	106.9356	124.8499	109.2201	118.0642	100.9810	114.9769	106.9356	124.8499	109.2201	118.0642	100.9810
2022: I .....	115.5273	108.3922	124.4619	110.3796	119.8988	101.6071	115.5273	108.3922	124.4619	110.3796	119.8988	101.6071
II .....	118.9357	113.5264	126.1623	113.6835	125.7374	102.9598	118.9357	113.5264	126.1623	113.6835	125.7374	102.9598
III .....	123.4386	118.7803	129.9911	117.7361	131.1673	105.9360	123.4386	118.7803	129.9911	117.7361	131.1673	105.9360
IV .....	124.7657	119.7883	131.6568	118.7520	131.3621	107.5393	124.7657	119.7883	131.6568	118.7520	131.3621	107.5393

<sup>1</sup> U.S. dollars per foreign currency unit.

<sup>2</sup> European Economic and Monetary Union (EMU) members consists of Austria, Belgium, Finland, France, Germany, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain and Greece (beginning in 2001), Slovenia (2007), Cyprus and Malta (2008), Slovakia (2009), Estonia (2011), Latvia (2014), and Lithuania (2015).

<sup>3</sup> Weighted average of the foreign exchange value of the U.S. dollar against the currencies of a broad group of major U.S. trading partners.

<sup>4</sup> Subset of the broad index. Consists of currencies of the Euro area, Australia, Canada, Japan, Sweden, Switzerland, and the United Kingdom.

<sup>5</sup> Subset of the broad index currencies that are emerging market economies. For details, see *Revisions to the Federal Reserve Dollar Indexes*, January 2019.

<sup>6</sup> Adjusted for changes in consumer price indexes for the United States and other countries.

Source: Board of Governors of the Federal Reserve System.