

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

1. End-of-month and daily rates

EUR 1 = CU ...

| EU member countries | | | | | | | | |
|---------------------|---|--------------------------------|--------------------------------|------------------------------------|-------------------------------|--------------------------------|--------------------------------|--|
| Period | Bulgaria ¹ Bulgarian lev BGN | Czechia Czech koruna CZK | Denmark Danish krone DKK | Hungary Hungarian forint HUF | Poland Polish zloty PLN | Romania Romanian leu RON | Sweden Swedish krona SEK | |
| 2025 Mar. | 1.9558 | 24.962 | 7.4613 | 402.35 | 4.1840 | 4.9771 | 10.8490 | |
| Apr. | 1.9558 | 24.920 | 7.4636 | 404.08 | 4.2753 | 4.9782 | 10.9715 | |
| May | 1.9558 | 24.918 | 7.4587 | 403.60 | 4.2498 | 5.0612 | 10.8735 | |
| June | 1.9558 | 24.746 | 7.4609 | 399.80 | 4.2423 | 5.0785 | 11.1465 | |
| July | 1.9558 | 24.571 | 7.4626 | 400.00 | 4.2728 | 5.0757 | 11.1575 | |
| Aug. | 1.9558 | 24.458 | 7.4642 | 396.90 | 4.2665 | 5.0728 | 11.0550 | |
| Sep. | 1.9558 | 24.335 | 7.4649 | 390.26 | 4.2698 | 5.0806 | 11.0565 | |
| Oct. | 1.9558 | 24.327 | 7.4677 | 388.10 | 4.2560 | 5.0858 | 10.9250 | |
| Nov. | 1.9558 | 24.177 | 7.4688 | 381.43 | 4.2390 | 5.0909 | 10.9695 | |
| Dec. | 1.9558 | 24.237 | 7.4689 | 385.15 | 4.2210 | 5.0968 | 10.8215 | |
| 2026 Jan. | – | 24.325 | 7.4674 | 380.70 | 4.2073 | 5.0964 | 10.5205 | |
| Feb. | – | 24.244 | 7.4718 | 376.63 | 4.2243 | 5.0957 | 10.6643 | |
| Mar. | – | 24.514 | 7.4730 | 384.88 | 4.2890 | 5.0991 | 10.9430 | |
| 2026 Apr. 7 | – | 24.531 | 7.4725 | 382.30 | 4.2753 | 5.0954 | 10.9900 | |
| 8 | – | 24.380 | 7.4728 | 375.63 | 4.2538 | 5.0952 | 10.7840 | |
| 9 | – | 24.401 | 7.4728 | 377.08 | 4.2558 | 5.0932 | 10.8765 | |
| 10 | – | 24.365 | 7.4727 | 377.20 | 4.2435 | 5.0915 | 10.8360 | |
| 13 | – | 24.378 | 7.4727 | 366.90 | 4.2543 | 5.0920 | 10.8920 | |
| 14 | – | 24.349 | 7.4726 | 363.85 | 4.2425 | 5.0903 | 10.7980 | |
| 15 | – | 24.360 | 7.4730 | 364.88 | 4.2413 | 5.0911 | 10.8500 | |
| 16 | – | 24.349 | 7.4731 | 364.55 | 4.2423 | 5.0935 | 10.8040 | |
| 17 | – | 24.317 | 7.4734 | 362.70 | 4.2328 | 5.0989 | 10.8030 | |
| 20 | – | 24.289 | 7.4734 | 362.48 | 4.2335 | 5.0989 | 10.7685 | |
| 21 | – | 24.301 | 7.4734 | 362.15 | 4.2295 | 5.0984 | 10.7495 | |
| 22 | – | 24.347 | 7.4735 | 365.54 | 4.2468 | 5.0942 | 10.7760 | |
| 23 | – | 24.353 | 7.4730 | 364.89 | 4.2428 | 5.0917 | 10.7795 | |
| 24 | – | 24.373 | 7.4730 | 365.50 | 4.2403 | 5.0915 | 10.8200 | |
| 27 | – | 24.357 | 7.4726 | 363.68 | 4.2443 | 5.0954 | 10.7885 | |
| 28 | – | 24.372 | 7.4723 | 365.30 | 4.2478 | 5.0933 | 10.8485 | |
| 29 | – | 24.382 | 7.4727 | 363.88 | 4.2518 | 5.0981 | 10.8405 | |

| Other European and non-European countries | | | | | | | | |
|---|---------------------------------------|---------------------------------|----------------------------------|---------------------------------|--------------------------------------|-----------------------------------|------------------------------|--|
| Period | Australia Australian dollar AUD | Brazil Brazilian real BRL | Canada Canadian dollar CAD | China Yuan (renminbi) CNY | Hong Kong Hong Kong dollar HKD | Iceland Icelandic krona ISK | India Indian rupee INR | |
| 2025 Mar. | 1.7318 | 6.2507 | 1.5533 | 7.8442 | 8.4130 | 142.70 | 92.3955 | |
| Apr. | 1.7798 | 6.3839 | 1.5728 | 8.2635 | 8.8214 | 145.90 | 96.1360 | |
| May | 1.7647 | 6.4405 | 1.5656 | 8.1576 | 8.8926 | 144.20 | 97.0248 | |
| June | 1.7948 | 6.4384 | 1.6027 | 8.3970 | 9.2001 | 142.20 | 100.5605 | |
| July | 1.7762 | 6.3899 | 1.5838 | 8.2350 | 8.9851 | 142.20 | 100.2950 | |
| Aug. | 1.7865 | 6.3253 | 1.6031 | 8.3155 | 9.0877 | 143.00 | 102.8035 | |
| Sep. | 1.7760 | 6.2432 | 1.6346 | 8.3591 | 9.1359 | 142.40 | 104.2548 | |
| Oct. | 1.7672 | 6.2171 | 1.6207 | 8.2220 | 8.9787 | 144.80 | 102.5070 | |
| Nov. | 1.7721 | 6.1752 | 1.6210 | 8.1836 | 9.0020 | 148.20 | 103.4905 | |
| Dec. | 1.7581 | 6.4364 | 1.6088 | 8.2262 | 9.1464 | 147.20 | 105.5965 | |
| 2026 Jan. | 1.7001 | 6.2233 | 1.6120 | 8.2834 | 9.3067 | 145.20 | 109.5825 | |
| Feb. | 1.6612 | 6.0862 | 1.6139 | 8.0961 | 9.2359 | 143.50 | 107.5205 | |
| Mar. | 1.6693 | 6.0065 | 1.6022 | 7.9341 | 9.0136 | 143.60 | 107.8788 | |
| 2026 Apr. 7 | 1.6665 | 5.9506 | 1.6078 | 7.9251 | 9.0564 | 143.80 | 107.4895 | |
| 8 | 1.6589 | 5.9488 | 1.6225 | 7.9948 | 9.1685 | 143.80 | 107.9533 | |
| 9 | 1.6593 | 5.9584 | 1.6175 | 7.9863 | 9.1551 | 143.60 | 108.2738 | |
| 10 | 1.6561 | 5.9191 | 1.6187 | 7.9967 | 9.1729 | 143.29 | 108.7795 | |
| 13 | 1.6610 | 5.8740 | 1.6177 | 7.9827 | 9.1507 | 143.20 | 109.0470 | |
| 14 | 1.6558 | 5.8747 | 1.6225 | 8.0379 | 9.2372 | 143.80 | 109.7765 | |
| 15 | 1.6507 | 5.8878 | 1.6235 | 8.0353 | 9.2289 | 144.00 | 110.0695 | |
| 16 | 1.6425 | 5.8771 | 1.6174 | 8.0368 | 9.2195 | 144.20 | 109.8595 | |
| 17 | 1.6438 | 5.8707 | 1.6129 | 8.0483 | 9.2382 | 144.00 | 109.5025 | |
| 20 | 1.6432 | 5.8601 | 1.6105 | 8.0176 | 9.2105 | 143.20 | 109.4525 | |
| 21 | 1.6423 | 5.8410 | 1.6070 | 8.0202 | 9.2140 | 143.60 | 110.0275 | |
| 22 | 1.6404 | 5.8333 | 1.6034 | 8.0071 | 9.1892 | 143.80 | 110.0605 | |
| 23 | 1.6347 | 5.8037 | 1.5986 | 7.9928 | 9.1600 | 143.80 | 110.0520 | |
| 24 | 1.6393 | 5.8567 | 1.6023 | 8.0067 | 9.1763 | 143.80 | 110.3885 | |
| 27 | 1.6337 | 5.8370 | 1.5979 | 8.0165 | 9.2080 | 143.60 | 110.6745 | |
| 28 | 1.6327 | 5.8420 | 1.5974 | 7.9877 | 9.1527 | 143.20 | 110.4260 | |
| 29 | 1.6344 | 5.8359 | 1.6007 | 7.9993 | 9.1736 | 143.60 | 111.0315 | |

* See Explanatory notes, p. 48. ¹ Accession to the euro area on 1 January 2026.

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 |
| 2025 Mar. | 17,992.97 | 4.0256 | 161.60 | 1,594.71 | 4.7992 | 22.0627 | 1.9035 | 11.4130 |
| Apr. | 18,901.98 | 4.1231 | 162.68 | 1,618.39 | 4.9074 | 22.2020 | 1.9219 | 11.8090 |
| May | 18,519.93 | 3.9761 | 162.96 | 1,563.09 | 4.8264 | 21.8766 | 1.9017 | 11.5408 |
| June | 19,021.03 | 3.9492 | 169.17 | 1,588.21 | 4.9365 | 22.0899 | 1.9334 | 11.8345 |
| July | 18,882.87 | 3.8758 | 171.52 | 1,596.29 | 4.8817 | 21.5455 | 1.9375 | 11.7740 |
| Aug. | 19,207.37 | 3.8953 | 171.72 | 1,622.26 | 4.9255 | 21.7935 | 1.9811 | 11.7465 |
| Sep. | 19,578.94 | 3.8786 | 173.76 | 1,648.05 | 4.9412 | 21.5314 | 2.0257 | 11.7265 |
| Oct. | 19,251.16 | 3.7544 | 178.14 | 1,650.07 | 4.8388 | 21.4286 | 2.0212 | 11.6485 |
| Nov. | 19,269.07 | 3.7705 | 180.57 | 1,699.81 | 4.7796 | 21.2168 | 2.0247 | 11.7645 |
| Dec. | 19,640.83 | 3.7471 | 184.09 | 1,696.94 | 4.7682 | 21.1180 | 2.0380 | 11.8430 |
| 2026 Jan. | 20,010.00 | 3.6799 | 183.59 | 1,719.47 | 4.7044 | 20.5979 | 1.9660 | 11.3885 |
| Feb. | 19,833.70 | 3.7107 | 184.13 | 1,702.25 | 4.5933 | 20.3189 | 1.9731 | 11.2085 |
| Mar. | 19,506.24 | 3.6380 | 183.39 | 1,753.22 | 4.6555 | 20.7101 | 2.0061 | 11.2125 |
| 2026 Apr. 7 | 19,727.97 | 3.6361 | 184.73 | 1,730.56 | 4.6586 | 20.5167 | 2.0267 | 11.1830 |
| 8 | 19,872.46 | 3.6016 | 185.13 | 1,725.73 | 4.6543 | 20.3696 | 2.0055 | 11.1535 |
| 9 | 19,978.14 | 3.6029 | 185.70 | 1,728.78 | 4.6541 | 20.3739 | 2.0019 | 11.1265 |
| 10 | 20,020.25 | 3.5709 | 186.43 | 1,737.06 | 4.6434 | 20.3184 | 2.0034 | 11.1165 |
| 13 | 20,082.05 | 3.5787 | 186.75 | 1,740.86 | 4.6444 | 20.3203 | 2.0081 | 11.0980 |
| 14 | 20,202.65 | 3.5567 | 187.33 | 1,734.18 | 4.6594 | 20.3173 | 1.9992 | 11.1010 |
| 15 | 20,207.53 | 3.5395 | 187.41 | 1,740.02 | 4.6590 | 20.3859 | 1.9978 | 11.1200 |
| 16 | 20,193.76 | 3.5263 | 187.31 | 1,739.62 | 4.6586 | 20.3467 | 1.9986 | 11.0480 |
| 17 | 20,267.48 | 3.5262 | 187.72 | 1,744.76 | 4.6628 | 20.3144 | 2.0032 | 11.0170 |
| 20 | 20,144.41 | 3.5228 | 186.88 | 1,729.01 | 4.6481 | 20.4036 | 2.0003 | 10.9745 |
| 21 | 20,154.05 | 3.5202 | 187.14 | 1,729.57 | 4.6491 | 20.3666 | 1.9907 | 10.9670 |
| 22 | 20,179.88 | 3.5210 | 186.81 | 1,734.20 | 4.6375 | 20.3207 | 1.9866 | 10.9120 |
| 23 | 20,203.49 | 3.5038 | 186.50 | 1,729.96 | 4.6349 | 20.2910 | 1.9861 | 10.9130 |
| 24 | 20,195.76 | 3.4900 | 186.71 | 1,729.91 | 4.6438 | 20.3646 | 1.9939 | 10.9525 |
| 27 | 20,218.68 | 3.4997 | 187.06 | 1,728.54 | 4.6438 | 20.3899 | 1.9851 | 10.8830 |
| 28 | 20,188.41 | 3.4919 | 186.58 | 1,725.01 | 4.6159 | 20.3893 | 1.9905 | 10.8875 |
| 29 | 20,308.33 | 3.4656 | 187.05 | 1,730.59 | 4.6268 | 20.3670 | 1.9981 | 10.8620 |

| 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 |
| 2025 Mar. | 61.919 | 1.4519 | 19.8782 | 0.9531 | 36.706 | 41.0399 | 0.83536 | 1.0815 |
| Apr. | 63.538 | 1.4859 | 21.1095 | 0.9389 | 38.009 | 43.7574 | 0.85180 | 1.1373 |
| May | 63.209 | 1.4633 | 20.2939 | 0.9341 | 37.243 | 44.4954 | 0.84120 | 1.1339 |
| June | 66.161 | 1.4941 | 20.8411 | 0.9347 | 38.125 | 46.5682 | 0.85550 | 1.1720 |
| July | 66.770 | 1.4845 | 20.7390 | 0.9297 | 37.400 | 46.4644 | 0.86490 | 1.1446 |
| Aug. | 66.687 | 1.4987 | 20.6758 | 0.9364 | 37.760 | 47.9536 | 0.86680 | 1.1658 |
| Sep. | 68.375 | 1.5145 | 20.2820 | 0.9364 | 38.088 | 48.8227 | 0.87340 | 1.1741 |
| Oct. | 67.835 | 1.5039 | 20.0452 | 0.9287 | 37.348 | 48.5832 | 0.88160 | 1.1554 |
| Nov. | 67.853 | 1.5008 | 19.7962 | 0.9318 | 37.237 | 49.1509 | 0.87520 | 1.1566 |
| Dec. | 69.266 | 1.5105 | 19.4439 | 0.9314 | 37.218 | 50.4838 | 0.87260 | 1.1750 |
| 2026 Jan. | 70.211 | 1.5111 | 18.9906 | 0.9157 | 37.455 | 51.8324 | 0.86620 | 1.1919 |
| Feb. | 68.095 | 1.4942 | 18.8178 | 0.9104 | 36.696 | 51.8946 | 0.87630 | 1.1805 |
| Mar. | 69.780 | 1.4811 | 19.6271 | 0.9194 | 37.667 | 51.1433 | 0.86833 | 1.1498 |
| 2026 Apr. 7 | 69.628 | 1.4847 | 19.5192 | 0.9242 | 37.687 | 51.5551 | 0.87258 | 1.1557 |
| 8 | 69.531 | 1.4900 | 19.0930 | 0.9223 | 37.313 | 52.0707 | 0.86893 | 1.1706 |
| 9 | 69.883 | 1.4891 | 19.2009 | 0.9240 | 37.503 | 52.1047 | 0.87053 | 1.1685 |
| 10 | 70.088 | 1.4919 | 19.2389 | 0.9241 | 37.592 | 52.3147 | 0.87105 | 1.1711 |
| 13 | 70.356 | 1.4912 | 19.3849 | 0.9242 | 37.728 | 52.2478 | 0.87058 | 1.1684 |
| 14 | 70.578 | 1.4993 | 19.2845 | 0.9210 | 37.791 | 52.7442 | 0.86913 | 1.1793 |
| 15 | 70.794 | 1.4991 | 19.3368 | 0.9220 | 37.808 | 52.6696 | 0.86935 | 1.1780 |
| 16 | 70.666 | 1.4985 | 19.3046 | 0.9230 | 37.685 | 52.7417 | 0.86993 | 1.1782 |
| 17 | 70.865 | 1.5009 | 19.3293 | 0.9231 | 37.839 | 52.9272 | 0.87168 | 1.1797 |
| 20 | 70.411 | 1.4952 | 19.2275 | 0.9189 | 37.720 | 52.7784 | 0.87045 | 1.1760 |
| 21 | 70.407 | 1.4961 | 19.2620 | 0.9172 | 37.696 | 52.8274 | 0.87035 | 1.1767 |
| 22 | 70.578 | 1.4945 | 19.3230 | 0.9175 | 37.786 | 52.7102 | 0.86903 | 1.1733 |
| 23 | 70.651 | 1.4919 | 19.2576 | 0.9177 | 37.836 | 52.5351 | 0.86575 | 1.1694 |
| 24 | 71.039 | 1.4949 | 19.3974 | 0.9199 | 37.918 | 52.7310 | 0.86803 | 1.1712 |
| 27 | 71.385 | 1.4954 | 19.3608 | 0.9210 | 37.946 | 52.8788 | 0.86580 | 1.1749 |
| 28 | 71.580 | 1.4930 | 19.4289 | 0.9238 | 38.024 | 52.6239 | 0.86715 | 1.1680 |
| 29 | 72.111 | 1.4952 | 19.4303 | 0.9236 | 38.226 | 52.7585 | 0.86643 | 1.1706 |

* 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 ¹ | Czechia | Denmark | Hungary | Poland | Romania | Sweden | | |
| Period | Bulgarian lev BGN | Czech koruna CZK | Danish krone DKK | Hungarian forint HUF | Polish zloty PLN | Romanian leu RON | Swedish krona SEK | | |
| 2024 | 1.9558 | 25.120 | 7.4589 | 395.30 | 4.3058 | 4.9746 | 11.4325 | | |
| 2025 | 1.9558 | 24.688 | 7.4634 | 397.77 | 4.2397 | 5.0424 | 11.0663 | | |
| 2024 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 | | |
| Nov. | 1.9558 | 25.301 | 7.4583 | 409.25 | 4.3317 | 4.9762 | 11.5828 | | |
| Dec. | 1.9558 | 25.136 | 7.4589 | 411.99 | 4.2704 | 4.9749 | 11.5040 | | |
| 2025 Jan. | 1.9558 | 25.163 | 7.4609 | 411.73 | 4.2467 | 4.9752 | 11.4797 | | |
| Feb. | 1.9558 | 25.077 | 7.4592 | 403.13 | 4.1722 | 4.9770 | 11.2474 | | |
| Mar. | 1.9558 | 25.001 | 7.4597 | 399.81 | 4.1820 | 4.9768 | 10.9675 | | |
| Apr. | 1.9558 | 25.039 | 7.4648 | 406.44 | 4.2652 | 4.9775 | 10.9744 | | |
| May | 1.9558 | 24.923 | 7.4600 | 403.94 | 4.2538 | 5.0714 | 10.8812 | | |
| June | 1.9558 | 24.804 | 7.4597 | 402.08 | 4.2658 | 5.0454 | 11.0094 | | |
| July | 1.9558 | 24.625 | 7.4625 | 399.19 | 4.2541 | 5.0716 | 11.1985 | | |
| Aug. | 1.9558 | 24.517 | 7.4638 | 396.45 | 4.2613 | 5.0651 | 11.1610 | | |
| Sep. | 1.9558 | 24.347 | 7.4644 | 391.63 | 4.2589 | 5.0740 | 11.0004 | | |
| Oct. | 1.9558 | 24.315 | 7.4680 | 389.91 | 4.2488 | 5.0872 | 10.9699 | | |
| Nov. | 1.9558 | 24.234 | 7.4679 | 384.20 | 4.2376 | 5.0867 | 10.9915 | | |
| Dec. | 1.9558 | 24.259 | 7.4696 | 384.97 | 4.2239 | 5.0913 | 10.8956 | | |
| 2026 Jan. | – | 24.278 | 7.4703 | 384.18 | 4.2127 | 5.0919 | 10.6815 | | |
| Feb. | – | 24.260 | 7.4702 | 378.61 | 4.2184 | 5.0945 | 10.6351 | | |
| Mar. | – | 24.438 | 7.4717 | 389.19 | 4.2715 | 5.0954 | 10.7614 | | |

| 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 |
| 2024 | 1.6397 | 5.8283 | 1.4821 | 7.7875 | 8.4454 | 149.31 | 90.5563 |
| 2025 | 1.7518 | 6.3072 | 1.5787 | 8.1185 | 8.8104 | 144.66 | 98.5239 |
| 2024 Feb. | 1.6533 | 5.3559 | 1.4564 | 7.7651 | 8.4432 | 148.68 | 89.5608 |
| Mar. | 1.6586 | 5.4157 | 1.4726 | 7.8297 | 8.5049 | 149.04 | 90.2515 |
| Apr. | 1.6469 | 5.4975 | 1.4661 | 7.7658 | 8.4006 | 150.35 | 89.4676 |
| May | 1.6317 | 5.5529 | 1.4780 | 7.8206 | 8.4458 | 150.00 | 90.1573 |
| June | 1.6206 | 5.7884 | 1.4750 | 7.8051 | 8.4023 | 149.36 | 89.8106 |
| July | 1.6257 | 6.0053 | 1.4868 | 7.8750 | 8.4684 | 149.43 | 90.6557 |
| Aug. | 1.6559 | 6.1193 | 1.5049 | 7.8736 | 8.5849 | 151.84 | 92.4062 |
| Sep. | 1.6398 | 6.1528 | 1.5037 | 7.8611 | 8.6528 | 152.21 | 93.0808 |
| Oct. | 1.6250 | 6.1195 | 1.4993 | 7.7276 | 8.4726 | 149.07 | 91.6266 |
| Nov. | 1.6267 | 6.1729 | 1.4855 | 7.6617 | 8.2699 | 146.72 | 89.6717 |
| Dec. | 1.6529 | 6.3843 | 1.4915 | 7.6298 | 8.1459 | 145.24 | 89.0453 |
| 2025 Jan. | 1.6626 | 6.2408 | 1.4904 | 7.5560 | 8.0605 | 145.40 | 89.3418 |
| Feb. | 1.6528 | 6.0053 | 1.4893 | 7.5749 | 8.1031 | 146.26 | 90.6346 |
| Mar. | 1.7158 | 6.2368 | 1.5518 | 7.8353 | 8.4000 | 145.26 | 93.4985 |
| Apr. | 1.7844 | 6.4759 | 1.5701 | 8.1850 | 8.7071 | 145.00 | 95.9723 |
| May | 1.7521 | 6.3953 | 1.5646 | 8.1348 | 8.8022 | 145.49 | 96.1427 |
| June | 1.7723 | 6.3913 | 1.5754 | 8.2700 | 9.0387 | 143.45 | 98.9782 |
| July | 1.7862 | 6.4611 | 1.5982 | 8.3754 | 9.1661 | 142.39 | 100.6043 |
| Aug. | 1.7920 | 6.3439 | 1.6057 | 8.3442 | 9.1035 | 143.10 | 101.8425 |
| Sep. | 1.7795 | 6.3013 | 1.6227 | 8.3586 | 9.1342 | 142.98 | 103.6023 |
| Oct. | 1.7781 | 6.2614 | 1.6280 | 8.2810 | 9.0426 | 142.22 | 102.8353 |
| Nov. | 1.7772 | 6.1728 | 1.6248 | 8.2149 | 8.9898 | 146.83 | 102.7101 |
| Dec. | 1.7634 | 6.3806 | 1.6168 | 8.2491 | 9.1114 | 148.19 | 105.4131 |
| 2026 Jan. | 1.7304 | 6.2674 | 1.6173 | 8.1806 | 9.1523 | 146.32 | 106.6826 |
| Feb. | 1.6763 | 6.1529 | 1.6140 | 8.1682 | 9.2421 | 144.75 | 107.3203 |
| Mar. | 1.6470 | 6.0498 | 1.5848 | 7.9703 | 9.0461 | 144.04 | 107.3446 |

* 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 2026.

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) | | | | | | | | |
|--|--------------------------|-------------------|---------------------|-------------------------|--------------------------|---------------------|---------------------------|------------------------|
| | 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 |
| 2024 | 17,157.68 | 4.0067 | 163.85 | 1,475.40 | 4.9503 | 19.8314 | 1.7880 | 11.6290 |
| 2025 | 18,623.06 | 3.8927 | 169.04 | 1,605.45 | 4.8339 | 21.6705 | 1.9422 | 11.7173 |
| 2024 Feb. | 16,898.59 | 3.9345 | 161.38 | 1,437.37 | 5.1468 | 18.4425 | 1.7618 | 11.3843 |
| Mar. | 17,063.66 | 3.9442 | 162.77 | 1,448.12 | 5.1272 | 18.2610 | 1.7869 | 11.5214 |
| Apr. | 17,258.77 | 4.0240 | 165.03 | 1,469.42 | 5.1139 | 18.0066 | 1.7992 | 11.6828 |
| May | 17,375.67 | 4.0062 | 168.54 | 1,474.96 | 5.0971 | 18.1549 | 1.7819 | 11.5988 |
| June | 17,595.94 | 4.0074 | 169.81 | 1,485.38 | 5.0680 | 19.6134 | 1.7539 | 11.4178 |
| July | 17,623.29 | 3.9902 | 171.17 | 1,499.62 | 5.0737 | 19.6397 | 1.7985 | 11.7160 |
| Aug. | 17,347.75 | 4.1079 | 161.06 | 1,488.61 | 4.8605 | 21.0823 | 1.8112 | 11.7895 |
| Sep. | 17,020.23 | 4.1452 | 159.08 | 1,478.72 | 4.7341 | 21.7625 | 1.7845 | 11.7852 |
| Oct. | 16,988.19 | 4.1020 | 163.20 | 1,484.59 | 4.6883 | 21.4603 | 1.7917 | 11.7907 |
| Nov. | 16,817.07 | 3.9523 | 163.23 | 1,482.25 | 4.7141 | 21.6152 | 1.7967 | 11.7408 |
| Dec. | 16,810.95 | 3.7896 | 161.08 | 1,506.85 | 4.6728 | 21.2338 | 1.8217 | 11.7447 |
| 2025 Jan. | 16,832.40 | 3.7450 | 161.92 | 1,503.60 | 4.6232 | 21.2951 | 1.8393 | 11.7456 |
| Feb. | 17,020.42 | 3.7149 | 158.09 | 1,505.02 | 4.6261 | 21.3268 | 1.8337 | 11.6574 |
| Mar. | 17,800.79 | 3.9523 | 161.17 | 1,576.45 | 4.7927 | 21.8760 | 1.8879 | 11.5472 |
| Apr. | 18,871.74 | 4.1460 | 161.67 | 1,617.41 | 4.9510 | 22.5071 | 1.9256 | 11.8380 |
| May | 18,526.84 | 4.0189 | 163.14 | 1,566.14 | 4.8091 | 21.9250 | 1.8998 | 11.5968 |
| June | 18,776.57 | 4.0064 | 166.52 | 1,573.37 | 4.8848 | 21.9261 | 1.9114 | 11.5841 |
| July | 19,029.69 | 3.9148 | 171.53 | 1,608.95 | 4.9462 | 21.8347 | 1.9471 | 11.8537 |
| Aug. | 18,967.88 | 3.9507 | 171.79 | 1,617.15 | 4.9166 | 21.7728 | 1.9721 | 11.8653 |
| Sep. | 19,399.67 | 3.9235 | 173.55 | 1,634.39 | 4.9417 | 21.7063 | 1.9940 | 11.6702 |
| Oct. | 19,310.79 | 3.8204 | 176.15 | 1,655.92 | 4.9028 | 21.4305 | 2.0198 | 11.6633 |
| Nov. | 19,303.88 | 3.7629 | 179.32 | 1,687.64 | 4.8021 | 21.2957 | 2.0439 | 11.7402 |
| Dec. | 19,548.05 | 3.7648 | 182.50 | 1,717.44 | 4.7920 | 21.1787 | 2.0249 | 11.8428 |
| 2026 Jan. | 19,757.02 | 3.6916 | 183.94 | 1,710.38 | 4.7262 | 20.7288 | 2.0090 | 11.6670 |
| Feb. | 19,896.39 | 3.6699 | 183.45 | 1,712.39 | 4.6261 | 20.3806 | 1.9683 | 11.3206 |
| Mar. | 19,561.24 | 3.5988 | 183.40 | 1,723.13 | 4.5687 | 20.5284 | 1.9762 | 11.1657 |

| 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 |
| 2024 | 62.007 | 1.4458 | 19.8297 | 0.9526 | 38.181 | 35.5734 | 0.84662 | 1.0824 |
| 2025 | 64.977 | 1.4756 | 20.1789 | 0.9370 | 37.116 | 44.8161 | 0.85679 | 1.1300 |
| 2024 Feb. | 60.486 | 1.4513 | 20.5082 | 0.9462 | 38.709 | 33.2644 | 0.85466 | 1.0795 |
| Mar. | 60.736 | 1.4573 | 20.4955 | 0.9656 | 39.079 | 34.8229 | 0.85524 | 1.0872 |
| Apr. | 61.171 | 1.4554 | 20.2378 | 0.9761 | 39.454 | 34.6926 | 0.85658 | 1.0728 |
| May | 62.523 | 1.4606 | 19.9079 | 0.9830 | 39.607 | 34.8605 | 0.85564 | 1.0812 |
| June | 63.177 | 1.4547 | 19.8144 | 0.9616 | 39.492 | 35.0667 | 0.84643 | 1.0759 |
| July | 63.416 | 1.4602 | 19.7950 | 0.9676 | 39.324 | 35.6969 | 0.84332 | 1.0844 |
| Aug. | 62.710 | 1.4488 | 19.8651 | 0.9450 | 38.263 | 37.1098 | 0.85150 | 1.1012 |
| Sep. | 62.256 | 1.4396 | 19.5634 | 0.9414 | 37.012 | 37.8238 | 0.84021 | 1.1106 |
| Oct. | 62.655 | 1.4283 | 19.1609 | 0.9386 | 36.411 | 37.3473 | 0.83496 | 1.0904 |
| Nov. | 62.410 | 1.4206 | 19.0553 | 0.9355 | 36.596 | 36.6237 | 0.83379 | 1.0630 |
| Dec. | 61.203 | 1.4144 | 19.0606 | 0.9339 | 35.794 | 36.6588 | 0.82804 | 1.0479 |
| 2025 Jan. | 60.479 | 1.4092 | 19.3821 | 0.9414 | 35.444 | 36.8091 | 0.83908 | 1.0354 |
| Feb. | 60.443 | 1.4022 | 19.2451 | 0.9413 | 35.189 | 37.6927 | 0.83071 | 1.0413 |
| Mar. | 62.013 | 1.4441 | 19.7403 | 0.9548 | 36.522 | 40.1683 | 0.83703 | 1.0807 |
| Apr. | 63.744 | 1.4852 | 21.1972 | 0.9370 | 37.883 | 42.7740 | 0.85379 | 1.1214 |
| May | 62.742 | 1.4589 | 20.4124 | 0.9356 | 37.143 | 43.7908 | 0.84350 | 1.1278 |
| June | 64.901 | 1.4782 | 20.5631 | 0.9380 | 37.564 | 45.4347 | 0.84981 | 1.1516 |
| July | 66.415 | 1.4960 | 20.7477 | 0.9325 | 37.883 | 46.9835 | 0.86469 | 1.1677 |
| Aug. | 66.452 | 1.4954 | 20.6230 | 0.9387 | 37.755 | 47.4983 | 0.86528 | 1.1631 |
| Sep. | 67.212 | 1.5075 | 20.4793 | 0.9350 | 37.549 | 48.4914 | 0.86895 | 1.1732 |
| Oct. | 67.884 | 1.5074 | 20.0976 | 0.9289 | 37.886 | 48.6799 | 0.87155 | 1.1630 |
| Nov. | 68.066 | 1.5058 | 19.9088 | 0.9290 | 37.436 | 48.8908 | 0.87997 | 1.1560 |
| Dec. | 68.941 | 1.5120 | 19.7180 | 0.9332 | 37.009 | 49.9695 | 0.87500 | 1.1709 |
| 2026 Jan. | 69.479 | 1.5027 | 19.1152 | 0.9272 | 36.735 | 50.7458 | 0.86828 | 1.1738 |
| Feb. | 68.790 | 1.4979 | 18.9206 | 0.9140 | 36.960 | 51.6771 | 0.87032 | 1.1824 |
| Mar. | 68.874 | 1.4790 | 19.3533 | 0.9094 | 37.298 | 51.0938 | 0.86631 | 1.1558 |

* 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 ...

| EU member countries | | | | | | | | |
|--------------------------|-----------------------|----------------------|---------------------|---------------------|----------------------------|---------------------|----------------------------|---------------------|
| | Bulgaria ¹ | Croatia ¹ | Czechia | Denmark | Hungary | Latvia ¹ | Lithuania ¹ | Poland |
| Period | Bulgarian lev BGN | Kuna HRK | Czech koruna CZK | Danish krone DKK | Hungarian forint HUF | Latvian lats LVL | Lithuanian litas LTL | Polish zloty PLN |
| End of year | | | | | | | | |
| 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 |
| 2024 | 1.9558 | – | 25.185 | 7.4578 | 411.35 | – | – | 4.2750 |
| 2025 | 1.9558 | – | 24.237 | 7.4689 | 385.15 | – | – | 4.2210 |
| Annual averages + | | | | | | | | |
| 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 |
| 2024 | 1.9558 | – | 25.120 | 7.4589 | 395.30 | – | – | 4.3058 |
| 2025 | 1.9558 | – | 24.688 | 7.4634 | 397.77 | – | – | 4.2397 |

| 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 | | | | | | | | |
| 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 |
| 2024 | 4.9743 | 11.4590 | 1.6772 | 6.4253 | 1.4948 | 7.5833 | 8.0686 | 143.90 |
| 2025 | 5.0968 | 10.8215 | 1.7581 | 6.4364 | 1.6088 | 8.2262 | 9.1464 | 147.20 |
| Annual averages + | | | | | | | | |
| 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 |
| 2024 | 4.9746 | 11.4325 | 1.6397 | 5.8283 | 1.4821 | 7.7875 | 8.4454 | 149.31 |
| 2025 | 5.0424 | 11.0663 | 1.7518 | 6.3072 | 1.5787 | 8.1185 | 8.8104 | 144.66 |

* 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 1.1.). 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 | Japanese yen JPY | South Korean won KRW | Malaysian ringgit MYR | Mexican peso MXN | New Zealand dollar NZD | Norwegian krone NOK | |
| End of year | | | | | | | | | |
| 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 |
| 2024 | 88.9335 | 16,820.88 | 3.7885 | 163.06 | 1,532.15 | 4.6454 | 21.5504 | 1.8532 | 11.7950 |
| 2025 | 105.5965 | 19,640.83 | 3.7471 | 184.09 | 1,696.94 | 4.7682 | 21.1180 | 2.0380 | 11.8430 |
| Annual averages + | | | | | | | | | |
| 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 |
| 2024 | 90.5563 | 17,157.68 | 4.0067 | 163.85 | 1,475.40 | 4.9503 | 19.8314 | 1.7880 | 11.6290 |
| 2025 | 98.5239 | 18,623.06 | 3.8927 | 169.04 | 1,605.45 | 4.8339 | 21.6705 | 1.9422 | 11.7173 |

| 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 1 | 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 | | | | | | | | | |
| 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 |
| 2024 | 60.301 | – | 1.4164 | 19.6188 | 0.9412 | 35.676 | 36.7372 | 0.82918 | 1.0389 |
| 2025 | 69.266 | – | 1.5105 | 19.4439 | 0.9314 | 37.218 | 50.4838 | 0.87260 | 1.1750 |
| Annual averages + | | | | | | | | | |
| 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 |
| 2024 | 62.007 | – | 1.4458 | 19.8297 | 0.9526 | 38.181 | 35.5734 | 0.84662 | 1.0824 |
| 2025 | 64.977 | – | 1.4756 | 20.1789 | 0.9370 | 37.116 | 44.8161 | 0.85679 | 1.1300 |

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

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

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

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.