

Annex C. Statistical Annex

ANNEX C

Table C.1. World cereal projections

Marketing year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-----------------------------|-------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| WHEAT | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | Mt | 752.7 | 776.2 | 780.4 | 788.9 | 795.8 | 802.2 | 809.3 | 817.3 | 824.4 | 832.6 | 839.7 |
| Area | Mha | 218.1 | 223.2 | 222.5 | 223.1 | 223.3 | 223.5 | 223.6 | 224.0 | 224.1 | 224.4 | 224.4 |
| Yield | t/ha | 3.45 | 3.48 | 3.51 | 3.54 | 3.56 | 3.59 | 3.62 | 3.65 | 3.68 | 3.71 | 3.74 |
| Consumption | Mt | 748.7 | 765.4 | 773.1 | 781.7 | 790.5 | 798.8 | 805.8 | 813.2 | 820.5 | 827.9 | 835.1 |
| Feed use | Mt | 146.0 | 152.3 | 153.4 | 155.2 | 157.4 | 159.1 | 160.3 | 162.0 | 163.6 | 165.7 | 167.7 |
| Food use | Mt | 518.9 | 531.6 | 537.0 | 542.4 | 547.7 | 552.8 | 557.6 | 562.5 | 567.3 | 572.1 | 576.8 |
| Biofuel use | Mt | 8.7 | 8.6 | 8.6 | 8.7 | 8.7 | 8.9 | 9.2 | 9.4 | 9.5 | 9.7 | 9.8 |
| Other use | Mt | 75.1 | 73.0 | 74.1 | 75.4 | 76.6 | 78.0 | 78.7 | 79.4 | 80.0 | 80.5 | 80.8 |
| Exports | Mt | 181.2 | 193.2 | 196.2 | 199.0 | 201.6 | 204.4 | 208.2 | 211.3 | 214.0 | 217.0 | 219.8 |
| Closing stocks | Mt | 277.9 | 295.4 | 300.3 | 305.1 | 308.1 | 309.1 | 310.2 | 311.9 | 313.5 | 315.8 | 318.0 |
| Price ¹ | USD/t | 233.6 | 234.4 | 215.4 | 219.5 | 221.8 | 230.3 | 236.6 | 241.8 | 247.1 | 250.6 | 253.6 |
| Developed countries | | | | | | | | | | | | |
| Production | Mt | 384.9 | 399.5 | 402.2 | 406.2 | 410.4 | 412.9 | 416.7 | 420.6 | 424.3 | 428.5 | 432.3 |
| Consumption | Mt | 265.7 | 261.4 | 261.5 | 262.6 | 264.6 | 265.9 | 266.9 | 268.0 | 268.9 | 270.1 | 271.4 |
| Net trade | Mt | 126.3 | 137.5 | 140.4 | 142.6 | 144.3 | 146.4 | 150.0 | 152.6 | 155.0 | 157.4 | 159.8 |
| Closing stocks | Mt | 70.9 | 68.2 | 68.5 | 69.5 | 70.9 | 71.5 | 71.4 | 71.4 | 71.8 | 72.9 | 74.0 |
| Developing countries | | | | | | | | | | | | |
| Production | Mt | 367.8 | 376.7 | 378.1 | 382.7 | 385.4 | 389.3 | 392.6 | 396.7 | 400.1 | 404.0 | 407.4 |
| Consumption | Mt | 482.9 | 504.0 | 511.6 | 519.2 | 525.8 | 533.0 | 538.9 | 545.3 | 551.6 | 557.9 | 563.7 |
| Net trade | Mt | -123.5 | -135.1 | -138.1 | -140.3 | -142.0 | -144.1 | -147.6 | -150.2 | -152.6 | -155.1 | -157.4 |
| Closing stocks | Mt | 207.0 | 227.2 | 231.8 | 235.6 | 237.2 | 237.6 | 238.8 | 240.5 | 241.7 | 242.9 | 244.0 |
| OECD² | | | | | | | | | | | | |
| Production | Mt | 274.0 | 279.2 | 280.7 | 282.6 | 284.5 | 285.2 | 287.0 | 288.8 | 290.4 | 292.5 | 294.3 |
| Consumption | Mt | 219.1 | 218.9 | 218.8 | 219.5 | 220.8 | 221.5 | 221.9 | 222.6 | 223.2 | 224.1 | 225.0 |
| Net trade | Mt | 58.8 | 60.1 | 62.0 | 62.6 | 63.0 | 63.8 | 65.2 | 66.1 | 66.8 | 67.6 | 68.3 |
| Closing stocks | Mt | 62.3 | 60.5 | 60.5 | 61.0 | 61.7 | 61.7 | 61.6 | 61.7 | 62.1 | 62.9 | 63.9 |
| MAIZE | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | Mt | 1 151.4 | 1 183.4 | 1 201.4 | 1 218.9 | 1 227.2 | 1 239.0 | 1 253.3 | 1 268.8 | 1 284.2 | 1 298.1 | 1 312.2 |
| Area | Mha | 190.5 | 194.0 | 194.6 | 195.4 | 195.5 | 195.8 | 196.3 | 197.0 | 197.6 | 198.1 | 198.6 |
| Yield | t/ha | 6.04 | 6.10 | 6.17 | 6.24 | 6.28 | 6.33 | 6.38 | 6.44 | 6.50 | 6.55 | 6.61 |
| Consumption | Mt | 1 166.3 | 1 183.3 | 1 196.3 | 1 207.0 | 1 222.5 | 1 234.9 | 1 248.9 | 1 262.6 | 1 276.9 | 1 291.0 | 1 305.1 |
| Feed use | Mt | 671.0 | 696.1 | 705.7 | 719.2 | 726.3 | 735.9 | 745.6 | 755.7 | 766.5 | 776.8 | 787.2 |
| Food use | Mt | 145.4 | 148.6 | 151.3 | 153.8 | 156.2 | 158.5 | 160.8 | 163.2 | 165.6 | 167.9 | 170.3 |
| Biofuel use | Mt | 184.3 | 185.7 | 188.1 | 186.7 | 186.0 | 184.6 | 183.8 | 182.6 | 181.5 | 180.5 | 179.5 |
| Other use | Mt | 121.7 | 110.4 | 108.5 | 104.4 | 110.9 | 112.5 | 115.2 | 117.5 | 119.6 | 121.8 | 123.9 |
| Exports | Mt | 178.8 | 187.6 | 188.7 | 188.8 | 190.1 | 192.7 | 195.7 | 198.7 | 201.8 | 204.6 | 207.3 |
| Closing stocks | Mt | 303.7 | 279.8 | 281.9 | 290.7 | 292.4 | 293.5 | 294.8 | 297.9 | 302.2 | 306.3 | 310.3 |
| Price ³ | USD/t | 175.4 | 188.1 | 172.1 | 169.3 | 173.3 | 181.3 | 186.6 | 190.7 | 193.8 | 196.8 | 199.6 |
| Developed countries | | | | | | | | | | | | |
| Production | Mt | 515.0 | 533.2 | 538.2 | 544.0 | 545.1 | 548.0 | 552.2 | 557.6 | 562.9 | 567.2 | 571.4 |
| Consumption | Mt | 466.4 | 464.8 | 470.1 | 474.1 | 477.9 | 481.5 | 484.8 | 487.6 | 490.9 | 494.1 | 497.5 |
| Net trade | Mt | 52.8 | 65.9 | 65.2 | 65.3 | 66.0 | 66.8 | 67.8 | 69.2 | 70.6 | 71.8 | 73.0 |
| Closing stocks | Mt | 89.8 | 81.3 | 84.2 | 88.9 | 90.0 | 89.7 | 89.3 | 90.1 | 91.5 | 92.7 | 93.7 |
| Developing countries | | | | | | | | | | | | |
| Production | Mt | 636.4 | 650.1 | 663.2 | 674.9 | 682.2 | 691.0 | 701.1 | 711.2 | 721.4 | 731.0 | 740.8 |
| Consumption | Mt | 699.8 | 718.5 | 726.2 | 733.0 | 744.6 | 753.4 | 764.1 | 775.0 | 786.0 | 796.8 | 807.7 |
| Net trade | Mt | -49.8 | -62.8 | -62.1 | -62.2 | -62.9 | -63.7 | -64.7 | -66.1 | -67.5 | -68.8 | -69.9 |
| Closing stocks | Mt | 213.9 | 198.6 | 197.7 | 201.9 | 202.4 | 203.7 | 205.4 | 207.8 | 210.6 | 213.5 | 216.6 |
| OECD² | | | | | | | | | | | | |
| Production | Mt | 474.0 | 484.5 | 488.9 | 493.8 | 493.8 | 495.4 | 498.2 | 502.3 | 506.3 | 509.2 | 512.0 |
| Consumption | Mt | 500.6 | 499.0 | 504.2 | 508.5 | 512.8 | 516.8 | 520.5 | 523.8 | 527.5 | 531.3 | 535.1 |
| Net trade | Mt | -20.9 | -15.8 | -17.2 | -19.1 | -20.7 | -21.6 | -21.9 | -22.2 | -22.6 | -23.2 | -24.0 |
| Closing stocks | Mt | 84.3 | 73.7 | 75.5 | 79.9 | 81.6 | 81.7 | 81.4 | 82.2 | 83.5 | 84.6 | 85.4 |

ANNEX C

Table C.1. World cereal projections (cont.)

Marketing year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-----------------------------|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OTHER COARSE GRAINS | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | Mt | 301.0 | 305.4 | 308.7 | 311.1 | 313.9 | 316.0 | 318.9 | 321.6 | 324.5 | 327.1 | 329.9 |
| Area | Mha | 155.2 | 155.4 | 155.4 | 155.2 | 155.3 | 155.1 | 155.0 | 154.9 | 154.8 | 154.7 | 154.7 |
| Yield | t/ha | 1.94 | 1.96 | 1.99 | 2.00 | 2.02 | 2.04 | 2.06 | 2.08 | 2.10 | 2.11 | 2.13 |
| Consumption | Mt | 287.8 | 299.4 | 302.9 | 305.5 | 307.4 | 310.2 | 312.8 | 315.2 | 317.8 | 320.4 | 323.1 |
| Feed use | Mt | 157.4 | 165.5 | 167.7 | 169.2 | 170.9 | 172.4 | 173.6 | 174.8 | 176.0 | 177.1 | 178.5 |
| Food use | Mt | 80.9 | 82.8 | 84.7 | 85.8 | 87.1 | 88.2 | 89.3 | 90.4 | 91.5 | 92.6 | 93.6 |
| Biofuel use | Mt | 5.2 | 4.9 | 4.9 | 4.9 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| Other use | Mt | 44.2 | 46.2 | 45.6 | 45.6 | 44.7 | 44.7 | 45.0 | 45.2 | 45.6 | 45.9 | 46.3 |
| Exports | Mt | 42.9 | 46.3 | 47.4 | 47.8 | 48.4 | 49.1 | 50.1 | 50.9 | 51.7 | 52.3 | 53.0 |
| Closing stocks | Mt | 57.4 | 67.4 | 67.1 | 66.7 | 67.2 | 67.1 | 67.2 | 67.5 | 68.1 | 68.9 | 69.7 |
| Price ⁴ | USD/t | 206.2 | 209.3 | 196.8 | 199.7 | 202.7 | 209.7 | 215.1 | 220.4 | 225.3 | 229.4 | 232.8 |
| Developed countries | | | | | | | | | | | | |
| Production | Mt | 181.0 | 180.0 | 181.4 | 182.1 | 183.0 | 183.6 | 184.7 | 185.7 | 186.8 | 187.7 | 188.8 |
| Consumption | Mt | 145.0 | 147.3 | 147.6 | 147.9 | 147.2 | 147.6 | 148.0 | 148.3 | 148.7 | 149.0 | 149.4 |
| Net trade | Mt | 31.0 | 34.1 | 35.0 | 35.4 | 35.7 | 36.2 | 36.9 | 37.6 | 38.2 | 38.7 | 39.2 |
| Closing stocks | Mt | 32.3 | 38.9 | 37.8 | 36.7 | 36.8 | 36.6 | 36.3 | 36.2 | 36.2 | 36.3 | 36.4 |
| Developing countries | | | | | | | | | | | | |
| Production | Mt | 120.0 | 125.4 | 127.2 | 129.0 | 130.9 | 132.4 | 134.2 | 135.9 | 137.7 | 139.4 | 141.1 |
| Consumption | Mt | 142.8 | 152.1 | 155.3 | 157.6 | 160.2 | 162.6 | 164.7 | 167.0 | 169.2 | 171.4 | 173.6 |
| Net trade | Mt | -25.0 | -28.0 | -29.0 | -29.3 | -29.7 | -30.2 | -30.9 | -31.5 | -32.1 | -32.7 | -33.2 |
| Closing stocks | Mt | 25.1 | 28.4 | 29.4 | 30.1 | 30.4 | 30.5 | 30.8 | 31.3 | 32.0 | 32.6 | 33.3 |
| OECD² | | | | | | | | | | | | |
| Production | Mt | 148.8 | 146.8 | 147.5 | 147.9 | 148.3 | 148.5 | 149.1 | 149.6 | 150.1 | 150.5 | 151.0 |
| Consumption | Mt | 123.9 | 126.3 | 126.4 | 126.6 | 125.8 | 126.1 | 126.5 | 126.7 | 127.0 | 127.3 | 127.7 |
| Net trade | Mt | 19.3 | 22.0 | 22.5 | 22.6 | 22.4 | 22.5 | 22.8 | 23.0 | 23.2 | 23.2 | 23.2 |
| Closing stocks | Mt | 25.6 | 31.9 | 30.5 | 29.3 | 29.4 | 29.2 | 29.0 | 28.9 | 28.8 | 28.8 | 28.9 |
| RICE | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | Mt | 509.3 | 525.1 | 529.2 | 532.7 | 537.1 | 542.0 | 546.7 | 551.8 | 556.9 | 562.0 | 567.3 |
| Area | Mha | 163.1 | 164.6 | 164.3 | 163.9 | 163.7 | 163.6 | 163.4 | 163.3 | 163.3 | 163.2 | 163.1 |
| Yield | t/ha | 3.12 | 3.19 | 3.22 | 3.25 | 3.28 | 3.31 | 3.35 | 3.38 | 3.41 | 3.44 | 3.48 |
| Consumption | Mt | 506.3 | 522.7 | 529.9 | 533.9 | 539.4 | 542.8 | 547.0 | 551.9 | 557.1 | 561.8 | 567.0 |
| Feed use | Mt | 17.6 | 18.4 | 18.8 | 19.1 | 19.4 | 19.8 | 20.2 | 20.6 | 20.9 | 21.3 | 21.7 |
| Food use | Mt | 417.4 | 432.0 | 438.1 | 441.3 | 445.9 | 448.4 | 451.6 | 455.6 | 459.7 | 463.5 | 467.6 |
| Exports | Mt | 45.9 | 49.3 | 50.7 | 52.1 | 52.8 | 53.9 | 55.6 | 57.4 | 58.9 | 60.6 | 62.3 |
| Closing stocks | Mt | 186.2 | 188.2 | 187.5 | 186.4 | 184.1 | 183.2 | 182.9 | 182.7 | 182.6 | 182.8 | 183.1 |
| Price ⁵ | USD/t | 464.1 | 513.4 | 488.0 | 476.3 | 479.4 | 480.4 | 483.5 | 485.1 | 488.3 | 490.0 | 492.4 |
| Developed countries | | | | | | | | | | | | |
| Production | Mt | 17.7 | 17.6 | 17.8 | 17.7 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.5 | 17.5 |
| Consumption | Mt | 19.6 | 19.9 | 20.0 | 20.1 | 20.1 | 20.2 | 20.3 | 20.4 | 20.5 | 20.6 | 20.7 |
| Net trade | Mt | -2.4 | -2.7 | -2.8 | -2.9 | -2.9 | -3.0 | -3.0 | -3.0 | -3.0 | -3.0 | -3.0 |
| Closing stocks | Mt | 8.2 | 9.3 | 9.9 | 10.4 | 10.8 | 11.1 | 11.4 | 11.5 | 11.6 | 11.6 | 11.5 |
| Developing countries | | | | | | | | | | | | |
| Production | Mt | 491.6 | 507.4 | 511.5 | 515.1 | 519.4 | 524.4 | 529.1 | 534.2 | 539.3 | 544.5 | 549.8 |
| Consumption | Mt | 486.7 | 502.9 | 510.0 | 513.8 | 519.2 | 522.6 | 526.7 | 531.5 | 536.6 | 541.3 | 546.3 |
| Net trade | Mt | 3.0 | 2.7 | 2.8 | 2.9 | 2.9 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Closing stocks | Mt | 178.0 | 178.9 | 177.6 | 176.0 | 173.3 | 172.1 | 171.5 | 171.2 | 171.0 | 171.2 | 171.6 |
| OECD² | | | | | | | | | | | | |
| Production | Mt | 22.6 | 22.7 | 22.9 | 22.7 | 22.6 | 22.5 | 22.4 | 22.4 | 22.3 | 22.2 | 22.1 |
| Consumption | Mt | 24.9 | 25.4 | 25.5 | 25.5 | 25.5 | 25.6 | 25.6 | 25.7 | 25.8 | 25.8 | 25.9 |
| Net trade | Mt | -2.8 | -3.2 | -3.2 | -3.3 | -3.3 | -3.4 | -3.4 | -3.5 | -3.6 | -3.6 | -3.7 |
| Closing stocks | Mt | 9.7 | 11.0 | 11.6 | 12.1 | 12.5 | 12.8 | 13.1 | 13.2 | 13.3 | 13.2 | 13.1 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated. Prices are in nominal terms.

1. No.2 hard red winter wheat, ordinary protein, United States FOB Gulf Ports (June/May).
2. Excludes Iceland and Costa Rica but includes all EU member countries.
3. No.2 yellow corn, United States FOB Gulf Ports (September/August).
4. Feed barley, Europe, FOB Rouen (July/June).
5. Milled 100%, grade b, nominal price quote, FOB Bangkok (January/December).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.2. World oilseed projections

Marketing year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-----------------------------|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SOYBEAN | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | Mt | 356.1 | 372.9 | 377.3 | 382.6 | 386.7 | 391.0 | 394.8 | 399.1 | 402.9 | 407.5 | 411.1 |
| Area | Mha | 125.8 | 129.2 | 129.7 | 130.4 | 130.8 | 131.3 | 131.6 | 132.0 | 132.2 | 132.6 | 132.8 |
| Yield | t/ha | 2.83 | 2.89 | 2.91 | 2.93 | 2.96 | 2.98 | 3.00 | 3.02 | 3.05 | 3.07 | 3.09 |
| Consumption | Mt | 358.6 | 370.8 | 376.2 | 381.0 | 386.2 | 391.1 | 395.4 | 398.8 | 402.7 | 406.7 | 410.6 |
| Crush | Mt | 324.3 | 334.1 | 339.1 | 343.6 | 348.5 | 353.1 | 357.2 | 360.3 | 363.9 | 367.8 | 371.5 |
| Closing stocks | Mt | 42.4 | 38.7 | 39.9 | 41.5 | 42.0 | 41.9 | 41.3 | 41.7 | 42.0 | 42.7 | 43.1 |
| Price ¹ | USD/t | 413.1 | 459.1 | 454.6 | 452.0 | 455.0 | 458.8 | 468.7 | 474.7 | 484.2 | 487.1 | 494.2 |
| Developed countries | | | | | | | | | | | | |
| Production | Mt | 129.6 | 135.3 | 136.6 | 138.0 | 139.3 | 140.8 | 141.9 | 143.2 | 144.4 | 145.9 | 147.2 |
| Consumption | Mt | 98.3 | 98.0 | 98.0 | 99.4 | 99.9 | 100.7 | 101.1 | 101.6 | 101.9 | 102.5 | 103.0 |
| Crush | Mt | 89.4 | 89.1 | 89.0 | 90.3 | 90.8 | 91.5 | 91.9 | 92.3 | 92.7 | 93.2 | 93.6 |
| Closing stocks | Mt | 18.1 | 8.4 | 9.7 | 11.2 | 11.9 | 12.1 | 12.1 | 12.2 | 12.3 | 12.6 | 12.7 |
| Developing countries | | | | | | | | | | | | |
| Production | Mt | 226.5 | 237.6 | 240.7 | 244.6 | 247.3 | 250.2 | 252.9 | 255.9 | 258.5 | 261.5 | 263.9 |
| Consumption | Mt | 260.3 | 272.7 | 278.2 | 281.6 | 286.2 | 290.4 | 294.3 | 297.2 | 300.7 | 304.2 | 307.7 |
| Crush | Mt | 234.9 | 245.0 | 250.2 | 253.3 | 257.7 | 261.7 | 265.3 | 268.0 | 271.3 | 274.6 | 277.9 |
| Closing stocks | Mt | 24.3 | 30.3 | 30.1 | 30.3 | 30.1 | 29.8 | 29.2 | 29.5 | 29.6 | 30.1 | 30.4 |
| OECD² | | | | | | | | | | | | |
| Production | Mt | 120.2 | 126.5 | 127.6 | 128.9 | 130.0 | 131.3 | 132.3 | 133.5 | 134.5 | 135.8 | 136.9 |
| Consumption | Mt | 99.1 | 99.5 | 99.4 | 100.9 | 101.5 | 102.3 | 102.8 | 103.4 | 103.8 | 104.5 | 105.0 |
| Crush | Mt | 90.7 | 90.8 | 90.7 | 92.1 | 92.6 | 93.5 | 93.9 | 94.5 | 94.9 | 95.5 | 96.0 |
| Closing stocks | Mt | 18.1 | 8.6 | 10.0 | 11.6 | 12.2 | 12.4 | 12.4 | 12.6 | 12.6 | 12.9 | 13.0 |
| OTHER OILSEEDS | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | Mt | 156.0 | 159.4 | 162.7 | 165.6 | 167.0 | 169.2 | 171.1 | 173.3 | 175.2 | 177.4 | 179.5 |
| Area | Mha | 88.9 | 90.6 | 91.3 | 91.9 | 92.0 | 92.4 | 92.6 | 92.9 | 93.1 | 93.4 | 93.7 |
| Yield | t/ha | 1.75 | 1.76 | 1.78 | 1.80 | 1.81 | 1.83 | 1.85 | 1.87 | 1.88 | 1.90 | 1.92 |
| Consumption | Mt | 157.5 | 159.6 | 162.2 | 165.2 | 166.8 | 169.0 | 171.1 | 173.3 | 175.2 | 177.4 | 179.5 |
| Crush | Mt | 136.3 | 138.4 | 140.8 | 143.6 | 145.1 | 147.2 | 149.1 | 151.1 | 152.9 | 154.9 | 156.8 |
| Closing stocks | Mt | 10.0 | 7.8 | 8.3 | 8.7 | 8.8 | 9.0 | 9.0 | 9.1 | 9.1 | 9.2 | 9.2 |
| Price ³ | USD/t | 445.2 | 476.0 | 470.8 | 460.2 | 471.3 | 477.1 | 483.8 | 488.0 | 497.3 | 501.9 | 507.0 |
| Developed countries | | | | | | | | | | | | |
| Production | Mt | 94.7 | 96.1 | 98.7 | 100.9 | 101.7 | 103.3 | 104.6 | 106.2 | 107.5 | 109.0 | 110.5 |
| Consumption | Mt | 88.8 | 88.9 | 90.5 | 92.4 | 93.2 | 94.5 | 95.7 | 97.0 | 98.1 | 99.3 | 100.5 |
| Crush | Mt | 81.5 | 81.7 | 83.3 | 85.1 | 85.8 | 87.1 | 88.3 | 89.4 | 90.5 | 91.7 | 92.8 |
| Closing stocks | Mt | 7.7 | 5.5 | 6.0 | 6.3 | 6.5 | 6.7 | 6.6 | 6.7 | 6.7 | 6.7 | 6.7 |
| Developing countries | | | | | | | | | | | | |
| Production | Mt | 61.3 | 63.3 | 64.0 | 64.8 | 65.3 | 65.9 | 66.5 | 67.1 | 67.7 | 68.4 | 69.0 |
| Consumption | Mt | 68.7 | 70.7 | 71.7 | 72.8 | 73.6 | 74.5 | 75.4 | 76.3 | 77.1 | 78.1 | 79.0 |
| Crush | Mt | 54.7 | 56.7 | 57.5 | 58.5 | 59.3 | 60.1 | 60.9 | 61.7 | 62.4 | 63.2 | 64.0 |
| Closing stocks | Mt | 2.3 | 2.3 | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.5 | 2.5 |
| OECD² | | | | | | | | | | | | |
| Production | Mt | 57.7 | 59.9 | 61.5 | 62.4 | 62.6 | 63.3 | 63.9 | 64.6 | 65.0 | 65.7 | 66.3 |
| Consumption | Mt | 58.2 | 58.8 | 59.5 | 60.5 | 60.8 | 61.4 | 62.0 | 62.6 | 63.0 | 63.6 | 64.1 |
| Crush | Mt | 52.7 | 53.2 | 53.9 | 54.9 | 55.1 | 55.7 | 56.3 | 56.9 | 57.3 | 57.8 | 58.3 |
| Closing stocks | Mt | 6.4 | 4.3 | 4.7 | 5.0 | 5.1 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| PROTEIN MEALS | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | Mt | 353.7 | 363.4 | 368.8 | 374.3 | 379.4 | 384.6 | 389.3 | 393.2 | 397.4 | 401.9 | 406.3 |
| Consumption | Mt | 353.8 | 363.1 | 368.6 | 374.0 | 379.3 | 384.5 | 389.2 | 393.1 | 397.3 | 401.8 | 406.2 |
| Closing stocks | Mt | 14.1 | 13.7 | 14.0 | 14.3 | 14.3 | 14.4 | 14.4 | 14.5 | 14.6 | 14.7 | 14.9 |
| Price ⁴ | USD/t | 354.4 | 391.0 | 390.2 | 385.4 | 384.1 | 389.9 | 397.4 | 404.3 | 411.7 | 416.4 | 422.2 |
| Developed countries | | | | | | | | | | | | |
| Production | Mt | 114.8 | 115.0 | 115.8 | 117.8 | 118.6 | 119.8 | 120.7 | 121.7 | 122.5 | 123.6 | 124.5 |
| Consumption | Mt | 126.7 | 126.7 | 127.6 | 128.2 | 128.2 | 128.6 | 129.1 | 129.4 | 129.5 | 129.9 | 130.1 |
| Closing stocks | Mt | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Developing countries | | | | | | | | | | | | |
| Production | Mt | 238.9 | 248.3 | 253.1 | 256.5 | 260.8 | 264.8 | 268.5 | 271.5 | 274.9 | 278.4 | 281.8 |
| Consumption | Mt | 227.0 | 236.3 | 240.9 | 245.8 | 251.1 | 255.9 | 260.1 | 263.7 | 267.8 | 271.9 | 276.1 |
| Closing stocks | Mt | 11.8 | 11.4 | 11.7 | 12.0 | 12.1 | 12.1 | 12.2 | 12.2 | 12.3 | 12.5 | 12.6 |
| OECD² | | | | | | | | | | | | |
| Production | Mt | 104.7 | 105.2 | 105.7 | 107.4 | 108.1 | 109.2 | 110.0 | 110.8 | 111.5 | 112.3 | 113.1 |
| Consumption | Mt | 132.4 | 133.2 | 134.0 | 134.6 | 134.9 | 135.5 | 136.1 | 136.6 | 136.9 | 137.4 | 137.8 |
| Closing stocks | Mt | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 |

ANNEX C

Table C.2. World oilseed projections (cont.)

Marketing year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-----------------------------|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| VEGETABLE OILS | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | Mt | 212.9 | 219.7 | 222.9 | 226.6 | 229.3 | 232.4 | 235.4 | 238.2 | 241.1 | 244.0 | 246.9 |
| of which palm oil | Mt | 76.3 | 80.1 | 81.2 | 82.4 | 83.4 | 84.5 | 85.6 | 86.7 | 87.7 | 88.9 | 90.0 |
| Consumption | Mt | 213.6 | 218.7 | 222.0 | 225.8 | 229.3 | 232.4 | 235.3 | 237.9 | 240.8 | 243.7 | 246.6 |
| Food | Mt | 142.0 | 145.6 | 147.2 | 150.3 | 153.2 | 155.7 | 158.2 | 160.8 | 163.4 | 166.0 | 168.8 |
| Biofuel | Mt | 31.9 | 32.5 | 33.3 | 33.5 | 33.8 | 34.0 | 33.9 | 33.6 | 33.5 | 33.6 | 33.4 |
| Exports | Mt | 87.2 | 88.1 | 89.1 | 90.5 | 91.5 | 92.4 | 93.2 | 94.0 | 95.0 | 95.9 | 96.9 |
| Closing stocks | Mt | 19.0 | 19.4 | 20.3 | 21.1 | 21.1 | 21.3 | 21.3 | 21.6 | 21.9 | 22.3 | 22.6 |
| Price ⁵ | USD/t | 783.6 | 899.2 | 878.5 | 871.0 | 883.6 | 912.1 | 935.0 | 948.8 | 971.7 | 987.9 | 1 005.7 |
| Developed countries | | | | | | | | | | | | |
| Production | Mt | 53.4 | 53.3 | 53.9 | 55.0 | 55.4 | 56.1 | 56.7 | 57.4 | 57.9 | 58.5 | 59.1 |
| Consumption | Mt | 57.6 | 58.1 | 58.3 | 58.5 | 58.7 | 58.8 | 58.6 | 58.2 | 58.2 | 58.2 | 58.2 |
| Closing stocks | Mt | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| Developing countries | | | | | | | | | | | | |
| Production | Mt | 159.5 | 166.4 | 169.0 | 171.5 | 173.9 | 176.3 | 178.7 | 180.9 | 183.2 | 185.5 | 187.8 |
| Consumption | Mt | 156.0 | 160.6 | 163.7 | 167.3 | 170.6 | 173.6 | 176.6 | 179.7 | 182.5 | 185.5 | 188.4 |
| Closing stocks | Mt | 15.2 | 15.6 | 16.5 | 17.2 | 17.2 | 17.4 | 17.8 | 18.1 | 18.4 | 18.4 | 18.7 |
| OECD² | | | | | | | | | | | | |
| Production | Mt | 43.5 | 43.6 | 44.0 | 44.8 | 45.1 | 45.6 | 46.0 | 46.3 | 46.7 | 47.1 | 47.4 |
| Consumption | Mt | 58.6 | 59.4 | 59.6 | 59.8 | 60.1 | 60.3 | 60.1 | 59.7 | 59.7 | 59.7 | 59.7 |
| Closing stocks | Mt | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |

Note: Average 2018-20est: Data for 2020 are estimated. Prices are in nominal terms.

1. Soybean, U.S., CIF Rotterdam (October/September).
2. Excludes Iceland and Costa Rica but includes all EU member countries.
3. Rapeseed, Europe, CIF Hamburg (October/September).
4. Weighted average protein meal, European port (October/September).
5. Weighted average price of oilseed oils and palm oil, European port (October/September).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.3. World sugar projections

Marketing year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---------------------------------|-------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| WORLD | | | | | | | | | | | | |
| SUGARBEET | | | | | | | | | | | | |
| Production | Mt | 278.4 | 285.1 | 285.8 | 288.6 | 289.5 | 292.1 | 293.9 | 295.6 | 297.5 | 299.6 | 301.8 |
| Area | Mha | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.8 | 4.8 | 4.8 | 4.8 |
| Yield | t/ha | 58.75 | 60.34 | 60.61 | 60.93 | 61.27 | 61.55 | 61.87 | 62.18 | 62.50 | 62.83 | 63.16 |
| Biofuel use | Mt | 11.8 | 11.8 | 11.7 | 11.8 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 |
| SUGARCANE | | | | | | | | | | | | |
| Production | Mt | 1 755.7 | 1 774.3 | 1 802.2 | 1 818.0 | 1 840.8 | 1 861.7 | 1 882.6 | 1 899.2 | 1 917.1 | 1 936.4 | 1 959.8 |
| Area | Mha | 24.4 | 24.4 | 24.7 | 24.8 | 25.0 | 25.2 | 25.4 | 25.5 | 25.6 | 25.8 | 26.0 |
| Yield | t/ha | 71.93 | 72.64 | 72.93 | 73.29 | 73.64 | 73.93 | 74.22 | 74.51 | 74.82 | 75.15 | 75.47 |
| Biofuel use | Mt | 397.4 | 364.7 | 375.3 | 384.7 | 392.3 | 399.3 | 405.4 | 412.1 | 418.7 | 425.1 | 431.5 |
| SUGAR | | | | | | | | | | | | |
| Production | Mt tq | 172.9 | 176.4 | 179.4 | 181.6 | 184.3 | 187.1 | 189.8 | 192.0 | 194.5 | 197.2 | 200.3 |
| Consumption | Mt tq | 169.0 | 173.5 | 175.9 | 177.9 | 180.3 | 182.8 | 185.4 | 188.0 | 190.6 | 193.2 | 195.9 |
| Closing stocks | Mt tq | 88.3 | 86.9 | 87.5 | 88.3 | 89.3 | 90.7 | 92.1 | 93.1 | 94.1 | 95.2 | 96.6 |
| Price, raw sugar ¹ | USD/t | 290.0 | 310.4 | 321.2 | 333.3 | 344.4 | 350.3 | 359.0 | 364.4 | 370.1 | 375.8 | 380.2 |
| Price, white sugar ² | USD/t | 368.9 | 397.4 | 408.5 | 421.1 | 433.1 | 439.1 | 447.8 | 453.1 | 459.5 | 466.0 | 471.2 |
| Price, HFCS ³ | USD/t | 889.1 | 586.0 | 609.2 | 615.8 | 632.0 | 643.8 | 663.3 | 675.3 | 684.9 | 693.9 | 702.3 |
| DEVELOPED COUNTRIES | | | | | | | | | | | | |
| SUGARBEET | | | | | | | | | | | | |
| Production | Mt | 223.5 | 227.6 | 227.3 | 228.7 | 228.5 | 230.0 | 230.7 | 231.3 | 232.1 | 233.0 | 233.9 |
| SUGARCANE | | | | | | | | | | | | |
| Production | Mt | 80.3 | 81.8 | 82.3 | 83.0 | 83.8 | 84.6 | 85.2 | 85.7 | 86.2 | 86.9 | 87.8 |
| SUGAR | | | | | | | | | | | | |
| Production | Mt tq | 40.8 | 40.7 | 40.7 | 41.0 | 41.1 | 41.5 | 41.7 | 42.0 | 42.3 | 42.7 | 43.0 |
| Consumption | Mt tq | 46.0 | 46.3 | 46.3 | 46.2 | 46.2 | 46.3 | 46.3 | 46.4 | 46.5 | 46.5 | 46.6 |
| Closing stocks | Mt tq | 15.3 | 14.6 | 14.4 | 14.4 | 14.4 | 14.5 | 14.5 | 14.4 | 14.3 | 14.2 | 14.2 |
| HFCS | | | | | | | | | | | | |
| Production | Mt dw | 8.7 | 8.6 | 8.6 | 8.5 | 8.5 | 8.4 | 8.4 | 8.3 | 8.3 | 8.2 | 8.2 |
| Consumption | Mt dw | 7.7 | 7.7 | 7.6 | 7.6 | 7.5 | 7.5 | 7.4 | 7.3 | 7.3 | 7.2 | 7.2 |
| DEVELOPING COUNTRIES | | | | | | | | | | | | |
| SUGARBEET | | | | | | | | | | | | |
| Production | Mt | 54.9 | 57.5 | 58.5 | 59.8 | 60.9 | 62.1 | 63.1 | 64.3 | 65.4 | 66.6 | 67.8 |
| SUGARCANE | | | | | | | | | | | | |
| Production | Mt | 1 675.4 | 1 692.5 | 1 719.9 | 1 735.0 | 1 757.1 | 1 777.1 | 1 797.4 | 1 813.5 | 1 830.9 | 1 849.5 | 1 872.0 |
| SUGAR | | | | | | | | | | | | |
| Production | Mt tq | 132.1 | 135.7 | 138.7 | 140.6 | 143.2 | 145.6 | 148.0 | 150.0 | 152.2 | 154.5 | 157.2 |
| Consumption | Mt tq | 122.9 | 127.2 | 129.6 | 131.7 | 134.1 | 136.6 | 139.1 | 141.6 | 144.1 | 146.7 | 149.3 |
| Closing stocks | Mt tq | 73.0 | 72.3 | 73.1 | 73.9 | 74.9 | 76.2 | 77.6 | 78.8 | 79.8 | 81.0 | 82.4 |
| HFCS | | | | | | | | | | | | |
| Production | Mt dw | 4.9 | 4.9 | 5.0 | 5.2 | 5.3 | 5.4 | 5.5 | 5.6 | 5.7 | 5.8 | 5.9 |
| Consumption | Mt dw | 5.7 | 5.7 | 5.8 | 5.9 | 6.0 | 6.1 | 6.3 | 6.4 | 6.5 | 6.6 | 6.8 |
| OECD⁴ | | | | | | | | | | | | |
| SUGARBEET | | | | | | | | | | | | |
| Production | Mt | 174.2 | 177.0 | 176.6 | 177.1 | 177.1 | 177.8 | 178.2 | 178.4 | 178.8 | 179.3 | 179.9 |
| SUGARCANE | | | | | | | | | | | | |
| Production | Mt | 151.3 | 154.7 | 154.7 | 155.4 | 157.1 | 158.0 | 158.3 | 158.2 | 158.4 | 159.0 | 159.8 |
| SUGAR | | | | | | | | | | | | |
| Production | Mt tq | 40.3 | 41.2 | 41.1 | 41.2 | 41.4 | 41.7 | 41.9 | 42.0 | 42.2 | 42.4 | 42.7 |
| Consumption | Mt tq | 45.2 | 45.6 | 45.6 | 45.5 | 45.6 | 45.6 | 45.6 | 45.7 | 45.8 | 45.9 | 45.9 |
| Closing stocks | Mt tq | 14.4 | 14.6 | 14.4 | 14.5 | 14.5 | 14.7 | 14.6 | 14.6 | 14.5 | 14.4 | 14.5 |
| HFCS | | | | | | | | | | | | |
| Production | Mt dw | 9.5 | 9.4 | 9.3 | 9.3 | 9.2 | 9.2 | 9.1 | 9.0 | 9.0 | 8.9 | 8.9 |
| Consumption | Mt dw | 9.3 | 9.2 | 9.1 | 9.1 | 9.0 | 9.0 | 8.9 | 8.9 | 8.8 | 8.8 | 8.7 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated. HFCS: High fructose corn syrup. Prices are in nominal terms.

1. Raw sugar world price, ICE contract No11 nearby (October/September).
2. Refined sugar price, White Sugar Futures Contract No. 407, Euronext market, Liffe, London, Europe (October/September).
3. United States wholesale list price HFCS-55, dry weight (October/September).
4. Excludes Iceland and Costa Rica but includes all EU member countries.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.4. World meat projections

Calendar year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-------------------------------------|--------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| WORLD | | | | | | | | | | | | |
| BEEF AND VEAL | | | | | | | | | | | | |
| Production | kt cwe | 70 607 | 70 368 | 70 707 | 71 234 | 71 893 | 72 417 | 72 838 | 73 243 | 73 761 | 74 254 | 74 713 |
| Consumption | kt cwe | 70 281 | 70 117 | 70 430 | 70 948 | 71 615 | 72 134 | 72 556 | 72 959 | 73 475 | 73 968 | 74 421 |
| PIGMEAT | | | | | | | | | | | | |
| Production | kt cwe | 112 928 | 112 861 | 117 799 | 122 346 | 122 986 | 123 627 | 124 421 | 125 106 | 125 833 | 126 543 | 127 278 |
| Consumption | kt cwe | 112 293 | 112 597 | 117 546 | 122 105 | 122 730 | 123 373 | 124 167 | 124 852 | 125 579 | 126 288 | 127 027 |
| POULTRY MEAT | | | | | | | | | | | | |
| Production | kt rtc | 130 629 | 135 071 | 137 280 | 138 413 | 140 621 | 142 773 | 144 858 | 146 980 | 149 124 | 151 307 | 153 479 |
| Consumption | kt rtc | 128 912 | 133 346 | 135 624 | 136 765 | 138 964 | 141 117 | 143 219 | 145 339 | 147 473 | 149 665 | 151 831 |
| SHEEP MEAT | | | | | | | | | | | | |
| Production | kt cwe | 15 862 | 16 166 | 16 312 | 16 623 | 16 874 | 17 129 | 17 379 | 17 630 | 17 878 | 18 121 | 18 359 |
| Consumption | kt cwe | 15 901 | 16 196 | 16 357 | 16 659 | 16 910 | 17 165 | 17 416 | 17 666 | 17 915 | 18 157 | 18 395 |
| TOTAL MEAT | | | | | | | | | | | | |
| Per capita consumption ¹ | kg rwt | 42.7 | 42.4 | 43.0 | 43.4 | 43.4 | 43.5 | 43.5 | 43.5 | 43.6 | 43.6 | 43.7 |
| DEVELOPED COUNTRIES | | | | | | | | | | | | |
| BEEF AND VEAL | | | | | | | | | | | | |
| Production | kt cwe | 30 951 | 30 613 | 30 811 | 30 987 | 31 162 | 31 224 | 31 333 | 31 415 | 31 545 | 31 661 | 31 770 |
| Consumption | kt cwe | 29 992 | 29 567 | 29 662 | 29 799 | 29 917 | 29 965 | 30 043 | 30 094 | 30 203 | 30 297 | 30 376 |
| PIGMEAT | | | | | | | | | | | | |
| Production | kt cwe | 46 305 | 46 865 | 46 664 | 46 352 | 46 281 | 46 202 | 46 288 | 46 266 | 46 288 | 46 302 | 46 322 |
| Consumption | kt cwe | 41 100 | 41 293 | 41 494 | 41 711 | 41 728 | 41 747 | 41 884 | 41 866 | 41 894 | 41 902 | 41 912 |
| POULTRY MEAT | | | | | | | | | | | | |
| Production | kt rtc | 51 622 | 52 888 | 53 368 | 53 784 | 54 361 | 54 897 | 55 363 | 55 850 | 56 356 | 56 890 | 57 423 |
| Consumption | kt rtc | 48 558 | 49 546 | 50 085 | 50 575 | 51 039 | 51 481 | 51 882 | 52 301 | 52 723 | 53 185 | 53 624 |
| SHEEP MEAT | | | | | | | | | | | | |
| Production | kt cwe | 3 479 | 3 420 | 3 463 | 3 521 | 3 546 | 3 568 | 3 589 | 3 610 | 3 636 | 3 662 | 3 688 |
| Consumption | kt cwe | 2 720 | 2 676 | 2 699 | 2 740 | 2 761 | 2 783 | 2 804 | 2 825 | 2 849 | 2 872 | 2 894 |
| TOTAL MEAT | | | | | | | | | | | | |
| Per capita consumption ¹ | kg rwt | 85.7 | 85.6 | 86.0 | 86.4 | 86.6 | 86.8 | 87.1 | 87.2 | 87.5 | 87.7 | 88.0 |
| DEVELOPING COUNTRIES | | | | | | | | | | | | |
| BEEF AND VEAL | | | | | | | | | | | | |
| Production | kt cwe | 39 656 | 39 755 | 39 896 | 40 246 | 40 731 | 41 193 | 41 505 | 41 828 | 42 216 | 42 592 | 42 943 |
| Consumption | kt cwe | 40 289 | 40 550 | 40 768 | 41 149 | 41 698 | 42 169 | 42 514 | 42 865 | 43 271 | 43 670 | 44 045 |
| PIGMEAT | | | | | | | | | | | | |
| Production | kt cwe | 66 624 | 65 996 | 71 135 | 75 994 | 76 705 | 77 425 | 78 133 | 78 840 | 79 545 | 80 241 | 80 956 |
| Consumption | kt cwe | 71 193 | 71 303 | 76 052 | 80 394 | 81 002 | 81 626 | 82 284 | 82 986 | 83 685 | 84 386 | 85 116 |
| POULTRY MEAT | | | | | | | | | | | | |
| Production | kt rtc | 79 006 | 82 183 | 83 912 | 84 629 | 86 260 | 87 875 | 89 495 | 91 130 | 92 769 | 94 417 | 96 056 |
| Consumption | kt rtc | 80 354 | 83 799 | 85 539 | 86 190 | 87 925 | 89 635 | 91 337 | 93 038 | 94 750 | 96 479 | 98 207 |
| SHEEP MEAT | | | | | | | | | | | | |
| Production | kt cwe | 12 383 | 12 747 | 12 850 | 13 102 | 13 328 | 13 561 | 13 790 | 14 020 | 14 242 | 14 459 | 14 671 |
| Consumption | kt cwe | 13 181 | 13 520 | 13 658 | 13 918 | 14 149 | 14 382 | 14 612 | 14 841 | 15 066 | 15 285 | 15 501 |
| TOTAL MEAT | | | | | | | | | | | | |
| Per capita consumption ¹ | kg rwt | 32.8 | 32.7 | 33.4 | 33.9 | 34.0 | 34.1 | 34.1 | 34.2 | 34.3 | 34.4 | 34.5 |
| OECD² | | | | | | | | | | | | |
| BEEF AND VEAL | | | | | | | | | | | | |
| Production | kt cwe | 29 768 | 29 599 | 29 770 | 29 937 | 30 114 | 30 165 | 30 272 | 30 347 | 30 473 | 30 581 | 30 684 |
| Consumption | kt cwe | 29 015 | 28 776 | 28 894 | 29 038 | 29 171 | 29 220 | 29 309 | 29 364 | 29 476 | 29 571 | 29 657 |
| PIGMEAT | | | | | | | | | | | | |
| Production | kt cwe | 44 351 | 44 808 | 44 623 | 44 318 | 44 287 | 44 238 | 44 343 | 44 347 | 44 398 | 44 444 | 44 494 |
| Consumption | kt cwe | 40 307 | 40 369 | 40 609 | 40 878 | 40 949 | 40 989 | 41 145 | 41 152 | 41 205 | 41 242 | 41 278 |
| POULTRY MEAT | | | | | | | | | | | | |
| Production | kt rtc | 52 065 | 53 175 | 53 623 | 54 053 | 54 654 | 55 216 | 55 716 | 56 248 | 56 802 | 57 387 | 57 970 |
| Consumption | kt rtc | 48 800 | 49 773 | 50 376 | 50 915 | 51 403 | 51 875 | 52 309 | 52 765 | 53 224 | 53 723 | 54 199 |
| SHEEP MEAT | | | | | | | | | | | | |
| Production | kt cwe | 2 827 | 2 772 | 2 810 | 2 844 | 2 853 | 2 858 | 2 863 | 2 867 | 2 877 | 2 888 | 2 898 |
| Consumption | kt cwe | 2 121 | 2 081 | 2 097 | 2 115 | 2 119 | 2 123 | 2 128 | 2 132 | 2 139 | 2 146 | 2 153 |
| TOTAL MEAT | | | | | | | | | | | | |
| Per capita consumption ¹ | kg rwt | 86.5 | 86.4 | 86.8 | 87.2 | 87.5 | 87.6 | 87.9 | 88.0 | 88.2 | 88.4 | 88.6 |

Note: Calendar Year; except year ending 30 September for New Zealand in aggregates. Average 2018-20est: Data for 2020 are estimated. Prices are in nominal terms.

1. Per capita consumption expressed in retail weight. Carcass weight to retail weight conversion factors of 0.7 for beef and veal, 0.78 for pigmeat and 0.88 for both sheep meat and poultry meat.
2. Excludes Iceland and Costa Rica but includes all EU member countries.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.5. World dairy projections: Milk, butter and cheese

Calendar year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-----------------------------|--------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|
| MILK | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | kt pw | 851 046 | 872 229 | 888 144 | 906 627 | 924 959 | 940 352 | 955 734 | 971 611 | 987 915 | 1 003 691 | 1 019 691 |
| Inventory | 000 hd | 714 635 | 727 482 | 731 877 | 746 869 | 758 219 | 765 167 | 771 951 | 779 489 | 786 738 | 793 767 | 800 198 |
| Yield | t/head | 1.19 | 1.20 | 1.21 | 1.21 | 1.22 | 1.23 | 1.24 | 1.25 | 1.26 | 1.26 | 1.27 |
| Developed countries | | | | | | | | | | | | |
| Production | kt pw | 403 931 | 409 765 | 411 596 | 414 396 | 418 194 | 420 854 | 423 675 | 426 532 | 429 902 | 432 737 | 435 996 |
| Inventory | 000 hd | 75 573 | 75 507 | 75 487 | 75 539 | 75 556 | 75 488 | 75 435 | 75 409 | 75 377 | 75 338 | 75 285 |
| Yield | t/head | 5.35 | 5.43 | 5.45 | 5.49 | 5.53 | 5.58 | 5.62 | 5.66 | 5.70 | 5.74 | 5.79 |
| Developing countries | | | | | | | | | | | | |
| Production | kt pw | 447 115 | 462 464 | 476 548 | 492 231 | 506 765 | 519 498 | 532 059 | 545 080 | 558 013 | 570 955 | 583 695 |
| Inventory | 000 hd | 639 062 | 651 975 | 656 390 | 671 330 | 682 663 | 689 679 | 696 516 | 704 080 | 711 361 | 718 429 | 724 913 |
| Yield | t/head | 0.70 | 0.71 | 0.73 | 0.73 | 0.74 | 0.75 | 0.76 | 0.77 | 0.78 | 0.79 | 0.81 |
| OECD¹ | | | | | | | | | | | | |
| Production | kt pw | 366 940 | 372 781 | 375 007 | 378 212 | 381 809 | 384 271 | 386 935 | 389 668 | 392 924 | 395 640 | 398 795 |
| Inventory | 000 hd | 82 130 | 83 033 | 83 255 | 83 633 | 83 889 | 84 020 | 84 218 | 84 523 | 84 829 | 85 090 | 85 333 |
| Yield | t/head | 4.47 | 4.49 | 4.50 | 4.52 | 4.55 | 4.57 | 4.59 | 4.61 | 4.63 | 4.65 | 4.67 |
| FRESH DAIRY PRODUCTS | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Consumption | kt pw | 428 250 | 436 411 | 448 322 | 461 316 | 472 635 | 482 439 | 492 206 | 502 107 | 511 704 | 521 501 | 530 926 |
| Developed countries | | | | | | | | | | | | |
| Consumption | kt pw | 133 311 | 132 897 | 133 826 | 134 918 | 135 869 | 136 656 | 137 323 | 138 172 | 138 960 | 139 804 | 140 557 |
| Developing countries | | | | | | | | | | | | |
| Consumption | kt pw | 294 939 | 303 513 | 314 496 | 326 397 | 336 766 | 345 783 | 354 883 | 363 935 | 372 745 | 381 697 | 390 368 |
| OECD¹ | | | | | | | | | | | | |
| Consumption | kt pw | 105 550 | 104 931 | 105 597 | 106 400 | 107 161 | 107 804 | 108 357 | 109 119 | 109 850 | 110 639 | 111 352 |
| BUTTER | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | kt pw | 11 611 | 12 052 | 12 317 | 12 587 | 12 850 | 13 090 | 13 333 | 13 570 | 13 813 | 14 049 | 14 290 |
| Consumption | kt pw | 11 632 | 12 053 | 12 314 | 12 581 | 12 844 | 13 086 | 13 330 | 13 566 | 13 808 | 14 043 | 14 283 |
| Stock changes | kt pw | -8 | -1 | 3 | 6 | 6 | 4 | 3 | 4 | 5 | 6 | 6 |
| Price ² | USD/t | 4 424 | 4 037 | 4 130 | 4 180 | 4 222 | 4 287 | 4 366 | 4 462 | 4 517 | 4 564 | 4 600 |
| Developed countries | | | | | | | | | | | | |
| Production | kt pw | 4 829 | 4 903 | 4 936 | 4 967 | 5 003 | 5 042 | 5 078 | 5 109 | 5 137 | 5 165 | 5 194 |
| Consumption | kt pw | 4 339 | 4 391 | 4 413 | 4 435 | 4 459 | 4 484 | 4 507 | 4 526 | 4 544 | 4 561 | 4 579 |
| Developing countries | | | | | | | | | | | | |
| Production | kt pw | 6 782 | 7 149 | 7 381 | 7 620 | 7 847 | 8 048 | 8 255 | 8 461 | 8 676 | 8 884 | 9 096 |
| Consumption | kt pw | 7 292 | 7 662 | 7 901 | 8 147 | 8 385 | 8 602 | 8 823 | 9 040 | 9 264 | 9 481 | 9 704 |
| OECD¹ | | | | | | | | | | | | |
| Production | kt pw | 4 721 | 4 802 | 4 842 | 4 882 | 4 919 | 4 958 | 4 992 | 5 023 | 5 050 | 5 077 | 5 104 |
| Consumption | kt pw | 4 236 | 4 285 | 4 309 | 4 337 | 4 361 | 4 388 | 4 412 | 4 433 | 4 453 | 4 472 | 4 492 |
| Stock changes | kt pw | -4 | -1 | 3 | 6 | 6 | 4 | 3 | 4 | 5 | 6 | 6 |
| CHEESE | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | kt pw | 24 067 | 24 667 | 25 047 | 25 384 | 25 676 | 25 954 | 26 254 | 26 568 | 26 924 | 27 264 | 27 613 |
| Consumption | kt pw | 24 044 | 24 658 | 25 022 | 25 342 | 25 632 | 25 921 | 26 238 | 26 552 | 26 898 | 27 241 | 27 613 |
| Stock changes | kt pw | 5 | 9 | 25 | 42 | 44 | 33 | 16 | 16 | 25 | 22 | 0 |
| Price ³ | USD/t | 3 842 | 3 910 | 3 990 | 4 057 | 4 122 | 4 190 | 4 267 | 4 349 | 4 419 | 4 485 | 4 545 |
| Developed countries | | | | | | | | | | | | |
| Production | kt pw | 19 866 | 20 371 | 20 637 | 20 867 | 21 081 | 21 280 | 21 496 | 21 727 | 21 996 | 22 255 | 22 522 |
| Consumption | kt pw | 18 881 | 19 327 | 19 547 | 19 738 | 19 921 | 20 098 | 20 306 | 20 511 | 20 748 | 20 982 | 21 245 |
| Developing countries | | | | | | | | | | | | |
| Production | kt pw | 4 202 | 4 296 | 4 410 | 4 517 | 4 595 | 4 674 | 4 758 | 4 841 | 4 927 | 5 009 | 5 091 |
| Consumption | kt pw | 5 163 | 5 331 | 5 475 | 5 604 | 5 711 | 5 823 | 5 932 | 6 041 | 6 151 | 6 259 | 6 368 |
| OECD¹ | | | | | | | | | | | | |
| Production | kt pw | 19 310 | 19 764 | 20 004 | 20 214 | 20 419 | 20 606 | 20 815 | 21 039 | 21 300 | 21 548 | 21 805 |
| Consumption | kt pw | 18 501 | 18 904 | 19 097 | 19 262 | 19 434 | 19 600 | 19 798 | 19 996 | 20 224 | 20 450 | 20 703 |
| Stock changes | kt pw | 5 | 9 | 25 | 42 | 44 | 33 | 16 | 16 | 25 | 22 | 0 |

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand in aggregates. Average 2018-20est: Data for 2020 are estimated. Prices are in nominal terms.

1. Excludes Iceland and Costa Rica but includes all EU member countries.

2. FOB export price, butter, 82% butterfat, Oceania.

3. FOB export price, cheddar cheese, 39% moisture, Oceania.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.6. World dairy projections: Powders and casein

Calendar year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-----------------------------|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SKIM MILK POWDER | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | kt pw | 4 434 | 4 620 | 4 698 | 4 766 | 4 832 | 4 901 | 4 969 | 5 036 | 5 101 | 5 163 | 5 228 |
| Consumption | kt pw | 4 545 | 4 618 | 4 698 | 4 766 | 4 832 | 4 901 | 4 969 | 5 036 | 5 101 | 5 163 | 5 228 |
| Stock changes | kt pw | -128 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Price ¹ | USD/t | 2 470 | 2 890 | 2 909 | 2 964 | 3 016 | 3 072 | 3 130 | 3 192 | 3 252 | 3 311 | 3 371 |
| Developed countries | | | | | | | | | | | | |
| Production | kt pw | 3 820 | 3 968 | 4 026 | 4 079 | 4 129 | 4 181 | 4 234 | 4 286 | 4 337 | 4 387 | 4 439 |
| Consumption | kt pw | 1 787 | 1 774 | 1 783 | 1 791 | 1 792 | 1 793 | 1 795 | 1 797 | 1 798 | 1 798 | 1 803 |
| Developing countries | | | | | | | | | | | | |
| Production | kt pw | 614 | 652 | 672 | 687 | 703 | 719 | 735 | 749 | 763 | 777 | 790 |
| Consumption | kt pw | 2 758 | 2 844 | 2 916 | 2 975 | 3 040 | 3 107 | 3 174 | 3 238 | 3 302 | 3 365 | 3 426 |
| OECD² | | | | | | | | | | | | |
| Production | kt pw | 3 549 | 3 699 | 3 756 | 3 808 | 3 858 | 3 909 | 3 960 | 4 011 | 4 060 | 4 108 | 4 159 |
| Consumption | kt pw | 1 874 | 1 922 | 1 934 | 1 946 | 1 951 | 1 957 | 1 963 | 1 969 | 1 975 | 1 979 | 1 988 |
| Stock changes | kt pw | -128 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WHOLE MILK POWDER | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | kt pw | 5 059 | 5 379 | 5 363 | 5 373 | 5 458 | 5 543 | 5 622 | 5 704 | 5 785 | 5 865 | 5 945 |
| Consumption | kt pw | 5 102 | 5 381 | 5 360 | 5 373 | 5 460 | 5 545 | 5 624 | 5 704 | 5 785 | 5 865 | 5 945 |
| Stock changes | kt pw | 11 | -2 | 3 | 1 | -2 | -2 | -2 | 0 | 0 | 0 | 0 |
| Price ³ | USD/t | 3 025 | 3 093 | 3 130 | 3 188 | 3 240 | 3 299 | 3 366 | 3 442 | 3 503 | 3 564 | 3 622 |
| Developed countries | | | | | | | | | | | | |
| Production | kt pw | 2 510 | 2 597 | 2 635 | 2 649 | 2 670 | 2 692 | 2 705 | 2 720 | 2 736 | 2 753 | 2 769 |
| Consumption | kt pw | 713 | 743 | 740 | 745 | 752 | 753 | 754 | 755 | 756 | 759 | 761 |
| Developing countries | | | | | | | | | | | | |
| Production | kt pw | 2 549 | 2 782 | 2 728 | 2 724 | 2 789 | 2 851 | 2 917 | 2 984 | 3 048 | 3 112 | 3 176 |
| Consumption | kt pw | 4 389 | 4 638 | 4 620 | 4 627 | 4 709 | 4 792 | 4 870 | 4 949 | 5 028 | 5 106 | 5 184 |
| OECD² | | | | | | | | | | | | |
| Production | kt pw | 2 692 | 2 784 | 2 826 | 2 846 | 2 870 | 2 895 | 2 911 | 2 929 | 2 948 | 2 967 | 2 986 |
| Consumption | kt pw | 952 | 1 003 | 1 003 | 1 013 | 1 023 | 1 027 | 1 031 | 1 036 | 1 041 | 1 047 | 1 052 |
| Stock changes | kt pw | 11 | -2 | 3 | 1 | -2 | -2 | -2 | 0 | 0 | 0 | 0 |
| WHEY POWDER | | | | | | | | | | | | |
| Price ⁴ | USD/t | 909 | 916 | 926 | 929 | 940 | 958 | 983 | 1 007 | 1 027 | 1 046 | 1 066 |
| CASEIN | | | | | | | | | | | | |
| Price ⁵ | USD/t | 6 529 | 7 659 | 7 694 | 7 834 | 7 973 | 8 111 | 8 256 | 8 402 | 8 549 | 8 697 | 8 846 |

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand in aggregates. Average 2018-20est: Data for 2020 are estimated. Prices are in nominal terms.

1. FOB export price, non-fat dry milk, 1.25% butterfat, Oceania.
2. Excludes Iceland and Costa Rica but includes all EU member countries.
3. FOB export price, WMP 26% butterfat, Oceania.
4. FOB export price, sweet whey non-hygroscopic, Western Europe.
5. Export price, New Zealand.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.7. World fish and seafood projections

Calendar year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-----------------------------|-------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| FISH¹ | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | kt | 177 801 | 180 024 | 181 281 | 185 424 | 188 117 | 190 121 | 192 118 | 192 676 | 196 214 | 198 317 | 200 529 |
| of which aquaculture | kt | 84 014 | 86 282 | 87 850 | 90 364 | 92 454 | 94 350 | 95 995 | 97 759 | 99 555 | 101 400 | 103 339 |
| Consumption | kt | 178 260 | 180 075 | 181 392 | 185 525 | 188 208 | 190 202 | 192 189 | 192 737 | 196 265 | 198 358 | 200 560 |
| of which for food | kt | 157 267 | 159 682 | 161 935 | 165 248 | 167 973 | 169 990 | 172 016 | 173 510 | 176 126 | 178 281 | 180 504 |
| of which for reduction | kt | 16 795 | 16 351 | 15 483 | 16 371 | 16 398 | 16 444 | 16 474 | 15 595 | 16 576 | 16 583 | 16 615 |
| Price | | | | | | | | | | | | |
| Aquaculture ² | USD/t | 3 014.9 | 2 966.9 | 3 118.5 | 3 152.6 | 3 192.5 | 3 253.8 | 3 303.9 | 3 365.4 | 3 391.1 | 3 431.6 | 3 468.4 |
| Capture ³ | USD/t | 1 858.6 | 1 850.6 | 1 907.6 | 1 920.9 | 1 930.0 | 1 949.3 | 1 961.0 | 1 986.5 | 1 987.3 | 1 998.5 | 2 011.0 |
| Product traded ⁴ | USD/t | 3 053.4 | 3 033.3 | 3 167.4 | 3 196.7 | 3 213.1 | 3 253.0 | 3 277.4 | 3 326.9 | 3 331.0 | 3 352.9 | 3 377.5 |
| Developed countries | | | | | | | | | | | | |
| Production | kt | 29 470 | 29 711 | 30 161 | 30 271 | 30 565 | 30 549 | 30 757 | 30 751 | 31 015 | 30 958 | 31 028 |
| of which aquaculture | kt | 4 798 | 4 866 | 4 942 | 5 031 | 5 129 | 5 234 | 5 321 | 5 389 | 5 421 | 5 453 | 5 500 |
| Consumption | kt | 37 302 | 36 587 | 37 112 | 37 269 | 37 426 | 37 430 | 37 490 | 37 486 | 37 670 | 37 757 | 37 875 |
| of which for food | kt | 31 477 | 30 888 | 31 361 | 31 519 | 31 678 | 31 667 | 31 726 | 31 710 | 31 886 | 31 983 | 32 102 |
| of which for reduction | kt | 4 740 | 4 709 | 4 760 | 4 759 | 4 756 | 4 770 | 4 770 | 4 783 | 4 790 | 4 780 | 4 779 |
| Developing countries | | | | | | | | | | | | |
| Production | kt | 148 331 | 150 314 | 151 120 | 155 152 | 157 552 | 159 572 | 161 362 | 161 925 | 165 199 | 167 359 | 169 501 |
| of which aquaculture | kt | 79 216 | 81 415 | 82 908 | 85 333 | 87 325 | 89 116 | 90 673 | 92 370 | 94 134 | 95 947 | 97 839 |
| Consumption | kt | 140 958 | 143 488 | 144 280 | 148 256 | 150 782 | 152 773 | 154 700 | 155 251 | 158 595 | 160 601 | 162 684 |
| of which for food | kt | 125 791 | 128 794 | 130 574 | 133 729 | 136 295 | 138 322 | 140 289 | 141 800 | 144 240 | 146 298 | 148 402 |
| of which for reduction | kt | 12 056 | 11 642 | 10 723 | 11 612 | 11 642 | 11 674 | 11 703 | 10 813 | 11 786 | 11 804 | 11 837 |
| OECD⁵ | | | | | | | | | | | | |
| Production | kt | 29 156 | 29 390 | 29 418 | 29 717 | 30 169 | 30 133 | 30 323 | 29 897 | 30 412 | 30 440 | 30 525 |
| of which aquaculture | kt | 6 980 | 7 093 | 7 270 | 7 339 | 7 526 | 7 679 | 7 806 | 7 899 | 7 963 | 8 041 | 8 156 |
| Consumption | kt | 39 027 | 38 512 | 38 817 | 39 196 | 39 430 | 39 438 | 39 501 | 39 270 | 39 652 | 39 771 | 39 900 |
| of which for food | kt | 32 776 | 32 327 | 32 838 | 33 042 | 33 269 | 33 277 | 33 357 | 33 336 | 33 543 | 33 675 | 33 822 |
| of which for reduction | kt | 5 060 | 5 081 | 4 881 | 5 059 | 5 071 | 5 076 | 5 063 | 4 857 | 5 037 | 5 029 | 5 016 |
| FISHMEAL⁶ | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | kt | 5 474.2 | 5 416.6 | 5 249.0 | 5 504.1 | 5 545.7 | 5 596.7 | 5 640.0 | 5 454.5 | 5 728.7 | 5 764.6 | 5 805.8 |
| from whole fish | kt | 4 016.5 | 3 964.3 | 3 767.1 | 3 992.8 | 4 011.2 | 4 034.6 | 4 053.5 | 3 849.1 | 4 102.1 | 4 115.5 | 4 135.1 |
| Consumption | kt | 5 443.9 | 5 688.2 | 5 509.1 | 5 443.8 | 5 607.6 | 5 667.5 | 5 718.2 | 5 689.3 | 5 643.3 | 5 799.8 | 5 853.4 |
| Variation in stocks | kt | 154.0 | -180.6 | -174.1 | 141.3 | 14.2 | 0.2 | -12.2 | -173.8 | 141.4 | 15.8 | -1.6 |
| Price ⁷ | USD/t | 1 466.6 | 1 501.2 | 1 550.0 | 1 393.5 | 1 384.0 | 1 431.9 | 1 467.1 | 1 563.3 | 1 630.4 | 1 592.1 | 1 623.0 |
| Developed countries | | | | | | | | | | | | |
| Production | kt | 1 701.3 | 1 692.1 | 1 717.0 | 1 729.2 | 1 741.1 | 1 757.2 | 1 769.9 | 1 785.0 | 1 799.5 | 1 809.3 | 1 821.6 |
| from whole fish | kt | 1 112.6 | 1 137.3 | 1 153.2 | 1 156.4 | 1 159.3 | 1 166.3 | 1 169.9 | 1 176.4 | 1 181.8 | 1 182.5 | 1 185.7 |
| Consumption | kt | 1 708.4 | 1 674.4 | 1 609.3 | 1 604.3 | 1 630.2 | 1 629.9 | 1 625.5 | 1 594.4 | 1 556.0 | 1 577.4 | 1 567.2 |
| Variation in stocks | kt | 62.7 | -71.6 | -64.1 | 42.3 | 0.2 | -7.8 | -11.2 | -43.8 | 32.4 | 8.8 | -1.6 |
| Developing countries | | | | | | | | | | | | |
| Production | kt | 3 772.9 | 3 724.5 | 3 532.1 | 3 774.8 | 3 804.7 | 3 839.5 | 3 870.1 | 3 669.6 | 3 929.2 | 3 955.3 | 3 984.2 |
| from whole fish | kt | 2 903.9 | 2 827.0 | 2 613.9 | 2 836.4 | 2 852.0 | 2 868.2 | 2 883.6 | 2 672.7 | 2 920.3 | 2 933.0 | 2 949.3 |
| Consumption | kt | 3 735.5 | 4 013.7 | 3 899.8 | 3 839.5 | 3 977.3 | 4 037.6 | 4 092.7 | 4 095.0 | 4 087.4 | 4 222.4 | 4 286.2 |
| Variation in stocks | kt | 91.3 | -109.0 | -110.0 | 99.0 | 14.0 | 8.0 | -1.0 | -130.0 | 109.0 | 7.0 | 0.0 |
| OECD⁵ | | | | | | | | | | | | |
| Production | kt | 1 636.1 | 1 651.6 | 1 619.0 | 1 668.8 | 1 683.0 | 1 695.9 | 1 704.3 | 1 669.7 | 1 720.6 | 1 729.9 | 1 738.1 |
| from whole fish | kt | 1 146.8 | 1 173.8 | 1 133.2 | 1 174.9 | 1 181.2 | 1 186.1 | 1 186.3 | 1 144.0 | 1 186.8 | 1 188.0 | 1 188.1 |
| Consumption | kt | 1 794.3 | 1 862.0 | 1 791.5 | 1 761.5 | 1 796.0 | 1 797.4 | 1 794.7 | 1 758.8 | 1 725.2 | 1 751.7 | 1 747.2 |
| Variation in stocks | kt | 44.3 | -80.6 | -66.1 | 50.3 | 15.2 | -6.8 | -8.2 | -50.8 | 40.4 | 16.8 | 1.4 |

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Table C.7. World fish and seafood projections (cont.)

Calendar year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-----------------------------|-------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| FISH OIL⁶ | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | kt | 1 104.3 | 1 156.5 | 1 133.9 | 1 175.5 | 1 192.6 | 1 195.7 | 1 207.0 | 1 170.8 | 1 227.8 | 1 230.0 | 1 235.1 |
| from whole fish | kt | 683.8 | 681.1 | 646.5 | 687.4 | 692.4 | 696.5 | 699.5 | 661.9 | 707.1 | 709.4 | 710.4 |
| Consumption | kt | 1 048.1 | 1 133.8 | 1 134.5 | 1 127.7 | 1 170.9 | 1 181.2 | 1 206.0 | 1 201.2 | 1 201.7 | 1 225.3 | 1 234.5 |
| Variation in stocks | kt | 7.8 | -8.9 | -27.2 | 26.3 | 5.1 | 2.9 | -5.6 | -31.0 | 25.5 | 4.1 | 0.0 |
| Price ⁸ | USD/t | 1 783.9 | 1 852.1 | 1 865.6 | 1 728.3 | 1 723.0 | 1 798.0 | 1 827.1 | 1 988.3 | 1 977.4 | 1 997.7 | 2 027.1 |
| Developed countries | | | | | | | | | | | | |
| Production | kt | 463.3 | 489.3 | 501.1 | 499.5 | 509.7 | 507.5 | 513.7 | 513.5 | 523.6 | 520.9 | 522.9 |
| from whole fish | kt | 207.5 | 206.5 | 208.0 | 207.5 | 207.4 | 208.0 | 207.8 | 208.0 | 208.1 | 207.3 | 207.1 |
| Consumption | kt | 597.6 | 639.3 | 647.2 | 635.6 | 651.2 | 658.0 | 667.2 | 674.9 | 664.5 | 672.8 | 671.4 |
| Variation in stocks | kt | -1.4 | -6.4 | -16.2 | 12.3 | 2.1 | -1.1 | -0.6 | -15.0 | 11.5 | 3.1 | 0.0 |
| Developing countries | | | | | | | | | | | | |
| Production | kt | 641.0 | 667.2 | 632.8 | 676.0 | 682.9 | 688.2 | 693.4 | 657.3 | 704.2 | 709.1 | 712.2 |
| from whole fish | kt | 476.3 | 474.7 | 438.5 | 479.9 | 485.0 | 488.5 | 491.8 | 453.9 | 499.0 | 502.1 | 503.4 |
| Consumption | kt | 450.5 | 494.5 | 487.3 | 492.0 | 519.7 | 523.2 | 538.8 | 526.3 | 537.2 | 552.5 | 563.1 |
| Variation in stocks | kt | 9.2 | -2.5 | -11.0 | 14.0 | 3.0 | 4.0 | -5.0 | -16.0 | 14.0 | 1.0 | 0.0 |
| OECD⁵ | | | | | | | | | | | | |
| Production | kt | 538.7 | 575.8 | 575.7 | 583.3 | 593.8 | 591.0 | 596.5 | 585.5 | 604.3 | 601.6 | 602.9 |
| from whole fish | kt | 244.8 | 248.5 | 238.3 | 247.1 | 247.6 | 247.8 | 247.1 | 236.7 | 245.7 | 245.2 | 244.4 |
| Consumption | kt | 729.4 | 770.6 | 772.2 | 758.2 | 788.5 | 793.3 | 809.9 | 804.9 | 800.8 | 816.7 | 821.0 |
| Variation in stocks | kt | -1.6 | 8.1 | -19.7 | 14.3 | 7.1 | -0.1 | -2.6 | -21.0 | 13.5 | 3.1 | 0.0 |

Note: The term "fish" indicates fish, crustaceans, molluscs and other aquatic animals, but excludes aquatic mammals, crocodiles, caimans, alligators and aquatic plants. Average 2018-20est: Data for 2020 are estimated. Prices are in nominal terms.

1. Data are in live weight equivalent.
2. World unit value of aquaculture fisheries production (live weight basis).
3. FAO estimated value of world ex vessel value of capture fisheries production excluding for reduction.
4. World unit value of trade (sum of exports and imports).
5. Excludes Costa Rica.
6. Data are in product weight.
7. Fishmeal, 64-65% protein, Hamburg, Germany.
8. Fish oil, any origin, N.W. Europe.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.8. World biofuel projections

Calendar year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-----------------------------|--------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ETHANOL | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | mrd L | 126.1 | 124.4 | 126.9 | 127.5 | 128.3 | 128.9 | 129.6 | 130.2 | 130.7 | 131.4 | 132.0 |
| Consumption | mrd L | 125.9 | 124.8 | 127.3 | 128.1 | 128.8 | 129.3 | 130.0 | 130.5 | 131.1 | 131.8 | 132.4 |
| Exports | mrd L | 11.0 | 11.2 | 11.2 | 11.0 | 11.0 | 10.8 | 10.7 | 10.6 | 10.5 | 10.5 | 10.3 |
| Price ¹ | USD/hl | 39.1 | 42.4 | 45.7 | 48.0 | 48.1 | 49.1 | 49.0 | 49.8 | 50.7 | 51.3 | 51.5 |
| Developed countries | | | | | | | | | | | | |
| Production | bln L | 69.6 | 69.3 | 70.3 | 69.9 | 69.8 | 69.5 | 69.4 | 69.1 | 68.7 | 68.5 | 68.3 |
| Consumption | bln L | 68.7 | 68.2 | 69.2 | 68.9 | 68.7 | 68.4 | 68.2 | 67.9 | 67.7 | 67.5 | 67.3 |
| Net trade | bln L | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 |
| Developing countries | | | | | | | | | | | | |
| Production | bln L | 56.4 | 55.1 | 56.6 | 57.6 | 58.6 | 59.4 | 60.2 | 61.1 | 62.0 | 62.9 | 63.7 |
| Consumption | bln L | 57.2 | 56.6 | 58.2 | 59.1 | 60.1 | 61.0 | 61.7 | 62.6 | 63.4 | 64.2 | 65.1 |
| Net trade | bln L | -2.0 | -1.6 | -1.6 | -1.5 | -1.6 | -1.6 | -1.5 | -1.5 | -1.4 | -1.4 | -1.3 |
| OECD² | | | | | | | | | | | | |
| Production | bln L | 69.5 | 69.3 | 70.3 | 69.9 | 69.8 | 69.5 | 69.4 | 69.1 | 68.8 | 68.6 | 68.4 |
| Consumption | bln L | 69.9 | 69.6 | 70.6 | 70.4 | 70.1 | 69.8 | 69.7 | 69.4 | 69.2 | 69.0 | 68.8 |
| Net trade | bln L | 0.0 | -0.3 | -0.2 | -0.3 | -0.2 | -0.2 | -0.2 | -0.3 | -0.4 | -0.4 | -0.4 |
| BIODIESEL | | | | | | | | | | | | |
| World | | | | | | | | | | | | |
| Production | bln L | 46.8 | 48.3 | 49.4 | 49.7 | 50.0 | 50.4 | 50.4 | 50.0 | 49.9 | 50.0 | 49.9 |
| Consumption | bln L | 47.2 | 49.1 | 50.3 | 50.6 | 50.9 | 51.2 | 51.2 | 50.8 | 50.8 | 50.9 | 50.7 |
| Exports | bln L | 7.1 | 6.0 | 5.9 | 5.8 | 5.8 | 5.6 | 5.6 | 5.5 | 5.4 | 5.3 | 5.3 |
| Price ³ | USD/hl | 84.4 | 88.5 | 89.4 | 92.5 | 92.9 | 93.7 | 94.5 | 95.6 | 97.0 | 97.1 | 97.3 |
| Developed countries | | | | | | | | | | | | |
| Production | bln L | 24.8 | 25.0 | 25.7 | 25.6 | 25.5 | 25.6 | 25.3 | 24.6 | 24.2 | 24.1 | 23.7 |
| Consumption | bln L | 28.8 | 29.0 | 29.6 | 29.5 | 29.4 | 29.4 | 29.0 | 28.2 | 27.7 | 27.4 | 26.8 |
| Net trade | bln L | -4.2 | -4.0 | -3.9 | -3.9 | -3.8 | -3.8 | -3.7 | -3.6 | -3.5 | -3.3 | -3.1 |
| Developing countries | | | | | | | | | | | | |
| Production | bln L | 22.0 | 23.3 | 23.8 | 24.1 | 24.5 | 24.8 | 25.1 | 25.4 | 25.7 | 26.0 | 26.2 |
| Consumption | bln L | 18.4 | 20.1 | 20.7 | 21.1 | 21.5 | 21.9 | 22.2 | 22.6 | 23.1 | 23.5 | 23.9 |
| Net trade | bln L | 3.6 | 3.2 | 3.1 | 3.1 | 3.0 | 3.0 | 2.8 | 2.8 | 2.7 | 2.5 | 2.3 |
| OECD² | | | | | | | | | | | | |
| Production | bln L | 26.1 | 26.3 | 27.0 | 26.9 | 26.9 | 26.9 | 26.6 | 26.0 | 25.6 | 25.4 | 25.0 |
| Consumption | bln L | 30.1 | 30.3 | 30.9 | 30.8 | 30.7 | 30.7 | 30.3 | 29.5 | 29.1 | 28.7 | 28.2 |
| Net trade | bln L | -4.2 | -4.0 | -3.9 | -3.9 | -3.8 | -3.8 | -3.6 | -3.5 | -3.5 | -3.3 | -3.1 |

Note: Average 2018-20est: Data for 2020 are estimated. Prices are in nominal terms.

1. Wholesale price, United States, Omaha.
2. Excludes Iceland and Costa Rica but includes all EU member countries.
3. Producer price Germany net of biodiesel tariff and energy tax.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.9. World cotton projections

Marketing year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-----------------------------|-------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| WORLD | | | | | | | | | | | | |
| Production | Mt | 25.5 | 24.9 | 25.1 | 25.5 | 26.0 | 26.4 | 26.9 | 27.2 | 27.6 | 28.0 | 28.4 |
| Area | Mha | 32.8 | 31.7 | 31.8 | 31.9 | 32.2 | 32.4 | 32.6 | 32.7 | 32.9 | 33.0 | 33.2 |
| Yield | t/ha | 0.78 | 0.79 | 0.79 | 0.80 | 0.81 | 0.82 | 0.82 | 0.83 | 0.84 | 0.85 | 0.86 |
| Consumption ¹ | Mt | 24.3 | 24.8 | 25.2 | 25.6 | 26.0 | 26.4 | 26.7 | 27.1 | 27.5 | 27.9 | 28.3 |
| Exports | Mt | 9.1 | 9.5 | 9.7 | 9.9 | 10.1 | 10.3 | 10.5 | 10.7 | 10.9 | 11.1 | 11.3 |
| Closing stocks | Mt | 20.7 | 22.0 | 21.9 | 21.8 | 21.8 | 22.0 | 22.1 | 22.1 | 22.2 | 22.3 | 22.4 |
| Price ² | USD/t | 1 694.1 | 1 647.2 | 1 665.9 | 1 690.2 | 1 715.3 | 1 742.6 | 1 771.2 | 1 803.5 | 1 840.3 | 1 879.9 | 1 920.3 |
| DEVELOPED COUNTRIES | | | | | | | | | | | | |
| Production | Mt | 5.8 | 5.9 | 5.9 | 6.0 | 6.1 | 6.3 | 6.4 | 6.5 | 6.5 | 6.6 | 6.7 |
| Consumption | Mt | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 |
| Exports | Mt | 4.6 | 4.5 | 4.6 | 4.7 | 4.8 | 4.9 | 5.0 | 5.1 | 5.1 | 5.2 | 5.3 |
| Imports | Mt | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Closing stocks | Mt | 2.0 | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 |
| DEVELOPING COUNTRIES | | | | | | | | | | | | |
| Production | Mt | 19.7 | 19.1 | 19.2 | 19.5 | 19.9 | 20.2 | 20.5 | 20.8 | 21.1 | 21.4 | 21.7 |
| Consumption | Mt | 22.7 | 23.1 | 23.5 | 23.9 | 24.3 | 24.6 | 25.0 | 25.4 | 25.7 | 26.1 | 26.5 |
| Exports | Mt | 4.5 | 5.0 | 5.1 | 5.2 | 5.3 | 5.4 | 5.5 | 5.6 | 5.8 | 5.9 | 6.0 |
| Imports | Mt | 8.6 | 9.2 | 9.4 | 9.6 | 9.8 | 10.0 | 10.2 | 10.4 | 10.5 | 10.7 | 10.9 |
| Closing stocks | Mt | 18.7 | 20.1 | 20.1 | 20.1 | 20.1 | 20.2 | 20.3 | 20.4 | 20.5 | 20.6 | 20.7 |
| OECD³ | | | | | | | | | | | | |
| Production | Mt | 5.7 | 5.6 | 5.7 | 5.8 | 6.0 | 6.1 | 6.2 | 6.3 | 6.4 | 6.5 | 6.6 |
| Consumption | Mt | 2.8 | 3.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.2 | 3.2 | 3.2 | 3.3 |
| Exports | Mt | 4.4 | 4.3 | 4.4 | 4.5 | 4.6 | 4.8 | 4.9 | 5.0 | 5.0 | 5.1 | 5.2 |
| Imports | Mt | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 |
| Closing stocks | Mt | 2.9 | 2.9 | 2.8 | 2.7 | 2.6 | 2.6 | 2.6 | 2.7 | 2.7 | 2.7 | 2.7 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated. Prices are in nominal terms.

1. Consumption for cotton means mill consumption and not final consumer demand.

2. Cotlook A index, Middling 1 1/8", c.f.r. far Eastern ports (August/July).

3. Excludes Iceland and Costa Rica but includes all EU member countries.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.10. Economic assumptions

Calendar year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---------------------------------|---|-----------------------|------|------|------|------|------|------|------|------|------|------|
| REAL GDP³ | | | | | | | | | | | | |
| Australia | % | 0.3 | 3.2 | 3.1 | 2.6 | 2.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Canada | % | -0.6 | 3.5 | 2.0 | 2.4 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| Chile | % | -0.3 | 4.5 | 3.2 | 2.9 | 2.7 | 2.5 | 2.4 | 2.4 | 2.3 | 2.3 | 2.2 |
| European Union | % | -1.5 | 4.2 | 2.9 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.2 |
| Japan | % | -1.4 | 2.3 | 1.5 | 1.2 | 1.0 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Korea | % | 1.3 | 2.8 | 3.4 | 2.9 | 2.6 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| Mexico | % | -2.4 | 3.6 | 3.4 | 2.2 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| New Zealand | % | 0.2 | 2.7 | 2.6 | 2.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Norway | % | 0.3 | 3.2 | 1.5 | 2.3 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| Switzerland | % | -0.2 | 2.2 | 3.4 | 1.4 | 1.9 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Turkey | % | -0.4 | 5.0 | 4.0 | 3.5 | 3.5 | 3.5 | 3.4 | 3.3 | 3.2 | 3.1 | 3.0 |
| United Kingdom | % | -2.9 | 4.2 | 4.1 | 1.9 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| United States | % | 0.5 | 3.2 | 3.5 | 2.3 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| Brazil | % | -1.2 | 2.6 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| China | % | 4.9 | 8.0 | 4.9 | 5.7 | 5.6 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| Egypt | % | 4.8 | 2.8 | 5.0 | 5.3 | 5.3 | 5.6 | 5.3 | 5.0 | 4.8 | 4.6 | 4.4 |
| India | % | 0.0 | 8.8 | 8.0 | 7.6 | 7.4 | 7.2 | 6.7 | 6.3 | 5.9 | 5.6 | 5.3 |
| Indonesia | % | 2.9 | 6.1 | 5.3 | 5.2 | 5.1 | 5.1 | 4.8 | 4.6 | 4.4 | 4.2 | 4.0 |
| Iran | % | -5.6 | 3.2 | 1.5 | 1.5 | 1.1 | 1.2 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| Malaysia | % | 1.0 | 7.8 | 6.0 | 5.7 | 5.3 | 5.0 | 4.8 | 4.5 | 4.3 | 4.2 | 4.0 |
| Pakistan | % | 2.4 | 1.0 | 4.0 | 4.5 | 5.0 | 5.0 | 4.8 | 4.6 | 4.4 | 4.2 | 4.0 |
| Russia | % | -0.2 | 2.8 | 2.2 | 2.1 | 2.0 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 |
| Saudi Arabia | % | -0.9 | 3.1 | 3.4 | 2.5 | 2.6 | 2.6 | 2.6 | 2.5 | 2.4 | 2.4 | 2.3 |
| South Africa | % | -2.4 | 3.0 | 1.5 | 1.5 | 2.1 | 2.3 | 2.3 | 2.2 | 2.2 | 2.1 | 2.1 |
| Ukraine | % | -0.2 | 3.0 | 3.2 | 3.4 | 3.8 | 4.0 | 3.8 | 3.7 | 3.6 | 3.4 | 3.3 |
| OECD ^{4,5} | % | -0.6 | 3.6 | 3.1 | 2.1 | 1.9 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 |
| PCE DEFLATOR³ | | | | | | | | | | | | |
| Australia | % | 1.5 | 1.2 | 1.4 | 1.9 | 2.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| Canada | % | 1.4 | 0.4 | 0.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Chile | % | 2.5 | 2.7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.8 | 2.8 | 2.7 | 2.6 |
| European Union | % | 1.1 | 1.1 | 1.3 | 1.4 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| Japan | % | 0.4 | 0.2 | 0.4 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Korea | % | 0.8 | 0.7 | 1.1 | 1.3 | 1.5 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Mexico | % | 3.7 | 3.4 | 2.9 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| New Zealand | % | 1.6 | 1.2 | 1.6 | 1.6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Norway | % | 2.1 | 1.6 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Switzerland | % | 0.3 | 0.3 | 0.6 | 0.7 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Turkey | % | 14.5 | 11.9 | 11.4 | 11.0 | 11.0 | 11.0 | 9.9 | 9.0 | 8.3 | 7.6 | 7.1 |
| United Kingdom | % | 1.6 | 0.7 | 1.5 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| United States | % | 1.6 | 1.2 | 1.4 | 2.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| Brazil | % | 2.6 | 1.9 | 2.9 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| China | % | 2.6 | 2.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| Egypt | % | 13.5 | 6.2 | 7.9 | 7.7 | 7.7 | 7.4 | 6.9 | 6.4 | 6.0 | 5.7 | 5.4 |
| India | % | 4.4 | 3.7 | 3.8 | 3.9 | 3.9 | 4.0 | 3.9 | 3.7 | 3.6 | 3.5 | 3.4 |
| Indonesia | % | 2.7 | 1.6 | 2.5 | 3.0 | 3.0 | 3.0 | 2.9 | 2.8 | 2.7 | 2.7 | 2.6 |
| Iran | % | 1.9 | 2.2 | 1.8 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Malaysia | % | 0.2 | 2.4 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 | 1.8 |
| Pakistan | % | 7.1 | 8.8 | 7.3 | 6.5 | 6.5 | 6.5 | 6.1 | 5.7 | 5.4 | 5.2 | 4.9 |
| Russia | % | 3.5 | 3.2 | 3.2 | 3.8 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Saudi Arabia | % | 1.3 | 3.7 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 | 1.8 |
| South Africa | % | 4.0 | 3.9 | 4.3 | 4.5 | 4.5 | 4.5 | 4.3 | 4.1 | 4.0 | 3.8 | 3.7 |
| Ukraine | % | 7.3 | 6.0 | 5.7 | 5.2 | 5.0 | 5.0 | 4.8 | 4.5 | 4.3 | 4.2 | 4.0 |
| OECD ^{4,5} | % | 2.3 | 2.1 | 2.3 | 2.7 | 2.9 | 3.1 | 3.0 | 3.0 | 2.9 | 2.9 | 2.8 |

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Table C.10. Economic assumptions (cont.)

Calendar year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---------------------------------|--------------|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| GDP DEFLATOR³ | | | | | | | | | | | | |
| Australia | % | 1.9 | 1.3 | 1.3 | 1.9 | 2.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| Canada | % | 1.2 | 0.4 | 1.0 | 1.8 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Chile | % | 3.5 | 3.9 | 2.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.6 | 2.5 | 2.5 | 2.4 |
| European Union | % | 1.6 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Japan | % | 0.5 | 0.4 | 0.6 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Korea | % | 0.3 | 1.1 | 0.6 | 1.4 | 1.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| Mexico | % | 3.6 | 3.1 | 3.0 | 3.2 | 3.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| New Zealand | % | 2.0 | 1.1 | 1.7 | 1.7 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Norway | % | 0.9 | 1.8 | 1.9 | 2.3 | 2.3 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| Switzerland | % | 0.1 | 0.3 | 0.6 | 0.4 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| Turkey | % | 13.3 | 5.9 | 11.4 | 13.0 | 10.4 | 10.6 | 9.6 | 8.7 | 8.0 | 7.4 | 6.9 |
| United Kingdom | % | 3.4 | -2.9 | 1.0 | 2.0 | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| United States | % | 1.8 | 1.1 | 1.5 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Brazil | % | 3.9 | 2.0 | 2.9 | 4.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| China | % | 2.0 | 1.6 | 2.0 | 2.2 | 2.3 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| Egypt | % | 13.6 | 6.2 | 8.1 | 7.8 | 7.8 | 7.8 | 7.2 | 6.7 | 6.3 | 5.9 | 5.6 |
| India | % | 4.0 | 3.0 | 3.7 | 3.8 | 3.8 | 3.8 | 3.6 | 3.5 | 3.4 | 3.3 | 3.2 |
| Indonesia | % | 2.5 | 1.6 | 2.5 | 3.0 | 3.0 | 3.0 | 2.9 | 2.8 | 2.7 | 2.7 | 2.6 |
| Iran | % | 1.9 | 2.2 | 1.8 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Malaysia | % | 0.0 | 2.5 | 1.9 | 2.0 | 2.2 | 2.3 | 2.3 | 2.2 | 2.2 | 2.1 | 2.1 |
| Pakistan | % | 6.9 | 9.4 | 8.5 | 7.2 | 6.2 | 6.2 | 5.9 | 5.6 | 5.3 | 5.0 | 4.8 |
| Russia | % | 3.8 | 3.4 | 3.5 | 3.8 | 4.0 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| Saudi Arabia | % | 0.9 | 4.8 | 2.2 | 2.1 | 2.2 | 2.2 | 2.1 | 2.1 | 2.1 | 2.0 | 2.0 |
| South Africa | % | 3.8 | 3.9 | 4.3 | 4.5 | 4.5 | 4.5 | 4.3 | 4.1 | 4.0 | 3.8 | 3.7 |
| Ukraine | % | 9.5 | 5.5 | 5.3 | 5.2 | 5.0 | 5.0 | 4.8 | 4.5 | 4.3 | 4.2 | 4.0 |
| OECD ⁵ | % | 2.5 | 1.4 | 2.2 | 2.7 | 2.6 | 2.8 | 2.7 | 2.7 | 2.6 | 2.6 | 2.6 |
| WORLD INPUT PRICES | | | | | | | | | | | | |
| Brent crude oil ¹ | USD/barrel | 59.5 | 46.5 | 52.9 | 55.1 | 57.5 | 59.9 | 62.8 | 65.6 | 68.4 | 71.2 | 74.0 |
| Fertiliser ² | USD/t | 252.0 | 228.3 | 246.5 | 253.9 | 260.2 | 265.3 | 269.1 | 274.1 | 280.8 | 287.9 | 294.7 |
| EXCHANGE RATES | | | | | | | | | | | | |
| Australia | AUD/USD | 1.41 | 1.42 | 1.42 | 1.42 | 1.42 | 1.43 | 1.43 | 1.44 | 1.45 | 1.45 | 1.46 |
| Canada | CAD/USD | 1.32 | 1.31 | 1.31 | 1.30 | 1.28 | 1.26 | 1.25 | 1.23 | 1.22 | 1.20 | 1.18 |
| Chile | CLP/USD | 715.32 | 762.24 | 743.03 | 731.97 | 725.72 | 722.14 | 718.57 | 714.99 | 711.42 | 707.84 | 704.27 |
| European Union | EUR/USD | 0.87 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.84 | 0.84 | 0.84 | 0.84 |
| Japan | JPY/USD | 108.79 | 104.84 | 104.84 | 101.09 | 98.59 | 96.84 | 95.11 | 93.42 | 91.75 | 90.12 | 88.51 |
| Korea | KRW/USD | 1 150.17 | 1 134.60 | 1 134.60 | 1 127.70 | 1 123.02 | 1 123.94 | 1 124.86 | 1 125.79 | 1 126.71 | 1 127.63 | 1 128.56 |
| Mexico | MXN/USD | 19.99 | 21.09 | 21.09 | 21.27 | 21.44 | 21.60 | 21.77 | 21.93 | 22.10 | 22.27 | 22.44 |
| New Zealand | NZD/USD | 1.50 | 1.49 | 1.49 | 1.47 | 1.46 | 1.44 | 1.43 | 1.42 | 1.40 | 1.39 | 1.38 |
| Brazil | BRL/USD | 4.27 | 5.69 | 5.69 | 5.67 | 5.62 | 5.64 | 5.66 | 5.68 | 5.70 | 5.72 | 5.74 |
| China | CNY/USD | 6.82 | 6.68 | 6.68 | 6.67 | 6.65 | 6.64 | 6.63 | 6.62 | 6.61 | 6.59 | 6.58 |
| Egypt | EGP/USD | 17.14 | 16.95 | 18.29 | 19.48 | 20.76 | 22.01 | 23.26 | 24.51 | 25.76 | 27.01 | 28.26 |
| India | INR/USD | 71.44 | 75.32 | 77.24 | 79.25 | 81.37 | 83.62 | 85.87 | 88.13 | 90.38 | 92.63 | 94.89 |
| Indonesia | '000 IDR/USD | 14.33 | 14.71 | 14.80 | 14.97 | 15.15 | 15.33 | 15.51 | 15.69 | 15.88 | 16.06 | 16.24 |
| Malaysia | MYR/USD | 4.12 | 4.09 | 4.07 | 4.04 | 4.04 | 4.04 | 4.04 | 4.05 | 4.05 | 4.05 | 4.06 |
| Pakistan | PKR/USD | 111.93 | 128.88 | 137.35 | 144.68 | 150.77 | 157.11 | 163.15 | 168.90 | 174.37 | 179.56 | 184.50 |
| Russia | RUB/USD | 66.82 | 79.23 | 79.23 | 80.38 | 81.75 | 83.17 | 84.60 | 86.07 | 87.56 | 89.07 | 90.61 |
| Saudi Arabia | SAR/USD | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 |
| South Africa | ZAR/USD | 14.93 | 16.30 | 15.80 | 16.00 | 16.11 | 16.30 | 16.49 | 16.68 | 16.87 | 17.06 | 17.25 |
| Ukraine | UAH/USD | 26.70 | 28.12 | 27.96 | 28.10 | 28.10 | 28.10 | 28.10 | 28.10 | 28.10 | 28.10 | 28.10 |
| United Kingdom | GBP/USD | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 |

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Table C.10. Economic assumptions (cont.)

Calendar year

| | | 2020est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-------------------------------|---|---------|------|------|------|------|------|------|------|------|------|------|
| POPULATION³ | | | | | | | | | | | | |
| Australia | % | 1.2 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 |
| Canada | % | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 |
| Chile | % | 0.9 | 0.5 | 0.2 | 0.0 | -0.1 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 |
| European Union | % | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Japan | % | -0.3 | -0.3 | -0.4 | -0.4 | -0.4 | -0.5 | -0.5 | -0.5 | -0.5 | -0.5 | -0.6 |
| Korea | % | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | -0.1 | -0.1 | -0.1 |
| Mexico | % | 1.1 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 |
| New Zealand | % | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 |
| Norway | % | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Switzerland | % | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 |
| Turkey | % | 1.1 | 0.8 | 0.6 | 0.5 | 0.4 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 |
| United Kingdom | % | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 |
| United States | % | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Argentina | % | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 |
| Brazil | % | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 |
| China | % | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| Egypt | % | 1.9 | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 |
| India | % | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.7 |
| Indonesia | % | 1.1 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 |
| Iran | % | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | 1.0 | 1.0 | 0.9 | 0.9 | 0.8 | 0.8 |
| Malaysia | % | 1.3 | 1.3 | 1.2 | 1.2 | 1.2 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 0.9 |
| Pakistan | % | 2.0 | 2.0 | 1.9 | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 |
| Russia | % | 0.0 | 0.0 | -0.1 | -0.1 | -0.2 | -0.2 | -0.2 | -0.2 | -0.2 | -0.3 | -0.3 |
| Saudi Arabia | % | 1.6 | 1.5 | 1.4 | 1.4 | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | 1.0 | 1.0 |
| South Africa | % | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 |
| Ukraine | % | -0.6 | -0.6 | -0.6 | -0.7 | -0.7 | -0.7 | -0.7 | -0.7 | -0.7 | -0.7 | -0.7 |
| OECD ⁵ | % | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 |
| World | % | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 |

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|---|-----------------------|------|------|------|------|------|------|------|------|------|------|
| PER CAPITA GDP in constant 2010 US dollars³ | | | | | | | | | | | | |
| Australia | % | -1.0 | 2.1 | 1.9 | 1.5 | 1.6 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 |
| Canada | % | -1.5 | 2.6 | 1.2 | 1.6 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 |
| Chile | % | -1.5 | 4.0 | 3.0 | 2.9 | 2.7 | 2.5 | 2.3 | 2.2 | 2.1 | 2.0 | 1.9 |
| European Union | % | -1.7 | 4.1 | 2.9 | 1.3 | 1.3 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Japan | % | -1.2 | 2.7 | 1.9 | 1.6 | 1.4 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| Korea | % | 1.2 | 2.8 | 3.3 | 2.9 | 2.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.6 |
| Mexico | % | -3.5 | 2.5 | 2.4 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 |
| New Zealand | % | -0.6 | 1.9 | 1.8 | 1.8 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 |
| Norway | % | -0.5 | 2.4 | 0.7 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 |
| Switzerland | % | -1.0 | 1.4 | 2.7 | 0.8 | 1.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 |
| Turkey | % | -1.7 | 4.1 | 3.4 | 3.0 | 3.1 | 3.0 | 2.9 | 2.7 | 2.6 | 2.5 | 2.4 |
| United Kingdom | % | -3.5 | 3.7 | 3.7 | 1.5 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| United States | % | -0.1 | 2.6 | 2.9 | 1.7 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Brazil | % | -2.0 | 1.9 | 1.5 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 |
| China | % | 4.4 | 7.7 | 4.6 | 5.5 | 5.4 | 5.3 | 5.3 | 5.4 | 5.4 | 5.4 | 5.5 |
| Egypt | % | 2.8 | 0.9 | 3.1 | 3.5 | 3.5 | 3.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.8 |
| India | % | -1.0 | 7.8 | 7.0 | 6.6 | 6.5 | 6.3 | 5.8 | 5.4 | 5.1 | 4.8 | 4.5 |
| Indonesia | % | 1.8 | 5.0 | 4.2 | 4.2 | 4.1 | 4.1 | 3.9 | 3.7 | 3.5 | 3.4 | 3.2 |
| Iran | % | -6.9 | 1.9 | 0.4 | 0.4 | 0.1 | 0.1 | 0.7 | 0.8 | 0.8 | 0.9 | 0.9 |
| Malaysia | % | -0.3 | 6.5 | 4.7 | 4.4 | 4.1 | 3.8 | 3.6 | 3.5 | 3.3 | 3.2 | 3.1 |
| Pakistan | % | 0.3 | -0.9 | 2.1 | 2.6 | 3.1 | 3.2 | 3.0 | 2.8 | 2.7 | 2.5 | 2.4 |
| Russia | % | -0.3 | 2.9 | 2.3 | 2.3 | 2.2 | 2.0 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 |
| Saudi Arabia | % | -2.5 | 1.6 | 2.0 | 1.2 | 1.3 | 1.4 | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 |
| South Africa | % | -3.6 | 1.7 | 0.3 | 0.4 | 1.0 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| Ukraine | % | 0.4 | 3.6 | 3.9 | 4.1 | 4.5 | 4.7 | 4.6 | 4.4 | 4.3 | 4.2 | 4.1 |
| OECD ⁵ | % | -1.0 | 3.1 | 2.7 | 1.6 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |

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Note: For OECD member countries, as well as Brazil, China and Russia, historical data for real GDP, private consumption expenditure deflator and GDP deflator were obtained from the OECD Economic Outlook No. 108, December 2020. For other economies, historical macroeconomic data were obtained from the IMF, World Economic Outlook, October 2020. Assumptions for the projection period draw on the recent medium term update of the OECD Economics Department, projections of the IMF, and for population, projections from the United Nations World Population Prospects Database, 2019 Revision (medium variant). Data for the European Union are euro area aggregates except for population. The price index used is the private consumption expenditure deflator. Average 2018-20est and 2020est: Data for 2020 are estimated.

1. Short-term update for crude oil price from the OECD Economic Outlook N°108 (December 2020). For 2020, the annual average daily spot price is used and oil prices follow the growth rate from the World bank crude oil average price during the projection period.
2. World Bank. Data for 2020 are estimated, projections by OECD and FAO Secretariats.
3. Annual per cent change.
4. Annual weighted average real GDP and CPI growth rates in OECD countries are based on weights using purchasing power parities (PPPs).
5. Excludes Iceland and Costa Rica but includes all EU member countries.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.11. World prices

Nominal price

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-------------------------------------|--------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CEREALS | | | | | | | | | | | | |
| Wheat ¹ | USD/t | 233.6 | 234.4 | 215.4 | 219.5 | 221.8 | 230.3 | 236.6 | 241.8 | 247.1 | 250.6 | 253.6 |
| Maize ² | USD/t | 175.4 | 188.1 | 172.1 | 169.3 | 173.3 | 181.3 | 186.6 | 190.7 | 193.8 | 196.8 | 199.6 |
| Other coarse grains ³ | USD/t | 206.2 | 209.3 | 196.8 | 199.7 | 202.7 | 209.7 | 215.1 | 220.4 | 225.3 | 229.4 | 232.8 |
| Rice ⁴ | USD/t | 464.1 | 513.4 | 488.0 | 476.3 | 479.4 | 480.4 | 483.5 | 485.1 | 488.3 | 490.0 | 492.4 |
| Distiller's dry grains ⁵ | USD/t | 162.0 | 163.2 | 148.8 | 148.6 | 152.0 | 158.6 | 162.8 | 166.5 | 169.8 | 172.7 | 175.4 |
| OILSEEDS | | | | | | | | | | | | |
| Soybean ⁶ | USD/t | 413.1 | 459.1 | 454.6 | 452.0 | 455.0 | 458.8 | 468.7 | 474.7 | 484.2 | 487.1 | 494.2 |
| Other oilseeds ⁷ | USD/t | 445.2 | 476.0 | 470.8 | 460.2 | 471.3 | 477.1 | 483.8 | 488.0 | 497.3 | 501.9 | 507.0 |
| Protein meals ⁸ | USD/t | 354.4 | 391.0 | 390.2 | 385.4 | 384.1 | 389.9 | 397.4 | 404.3 | 411.7 | 416.4 | 422.2 |
| Vegetable oils ⁹ | USD/t | 783.6 | 899.2 | 878.5 | 871.0 | 883.6 | 912.1 | 935.0 | 948.8 | 971.7 | 987.9 | 1 005.7 |
| SWEETENERS | | | | | | | | | | | | |
| Raw sugar ¹⁰ | USD/t | 290.0 | 310.4 | 321.2 | 333.3 | 344.4 | 350.3 | 359.0 | 364.4 | 370.1 | 375.8 | 380.2 |
| Refined sugar ¹¹ | USD/t | 368.9 | 397.4 | 408.5 | 421.1 | 433.1 | 439.1 | 447.8 | 453.1 | 459.5 | 466.0 | 471.2 |
| HFCS ¹² | USD/t dw | 889.1 | 586.0 | 609.2 | 615.8 | 632.0 | 643.8 | 663.3 | 675.3 | 684.9 | 693.9 | 702.3 |
| Molasses ¹³ | USD/t | 168.7 | 161.7 | 155.9 | 160.1 | 163.0 | 166.4 | 167.1 | 169.6 | 173.7 | 178.1 | 183.9 |
| MEAT | | | | | | | | | | | | |
| Beef and veal | | | | | | | | | | | | |
| Price, EU ¹⁴ | USD/t dwt | 4 163.6 | 3 947.6 | 4 016.4 | 3 984.0 | 3 961.4 | 3 974.4 | 3 976.2 | 3 974.0 | 3 964.7 | 3 954.5 | 3 938.7 |
| Price, United States ¹⁵ | USD/t dwt | 4 058.5 | 4 121.6 | 4 209.3 | 4 239.5 | 4 281.5 | 4 335.9 | 4 333.9 | 4 329.6 | 4 326.1 | 4 319.8 | 4 312.2 |
| Price, Brazil ¹⁶ | USD/t dwt | 4 170.8 | 4 287.9 | 4 383.7 | 4 350.2 | 4 310.0 | 4 315.1 | 4 320.9 | 4 323.2 | 4 312.4 | 4 302.6 | 4 293.6 |
| Pigmeat | | | | | | | | | | | | |
| Price, EU ¹⁷ | USD/t dwt | 1 801.3 | 1 879.6 | 1 895.6 | 1 887.9 | 1 876.7 | 1 881.7 | 1 870.7 | 1 861.6 | 1 842.3 | 1 832.7 | 1 812.9 |
| Price, United States ¹⁸ | USD/t dwt | 1 398.9 | 1 530.4 | 1 598.3 | 1 604.1 | 1 606.9 | 1 597.8 | 1 581.3 | 1 576.0 | 1 558.0 | 1 547.2 | 1 529.5 |
| Price, Brazil ¹⁹ | USD/t dwt | 2 191.6 | 2 428.3 | 2 423.3 | 2 389.9 | 2 369.0 | 2 380.3 | 2 375.0 | 2 372.8 | 2 353.7 | 2 348.5 | 2 325.7 |
| Poultry meat | | | | | | | | | | | | |
| Price, EU ²⁰ | USD/t rtc | 2 179.7 | 2 337.6 | 2 418.4 | 2 431.9 | 2 445.7 | 2 474.1 | 2 494.8 | 2 512.3 | 2 513.5 | 2 511.6 | 2 510.7 |
| Price, United States ²¹ | USD/t rtc | 1 069.9 | 968.5 | 1 004.9 | 1 010.2 | 1 010.8 | 1 019.4 | 1 026.9 | 1 034.0 | 1 034.4 | 1 033.3 | 1 032.5 |
| Price, Brazil ²² | USD/t rtc | 1 520.6 | 1 540.1 | 1 596.6 | 1 603.9 | 1 611.3 | 1 629.7 | 1 644.6 | 1 658.1 | 1 661.2 | 1 662.3 | 1 664.3 |
| Sheep meat | | | | | | | | | | | | |
| Price, New Zealand ²³ | USD/t dwt | 4 902.8 | 4 714.1 | 4 847.3 | 4 906.3 | 4 999.9 | 5 083.4 | 5 148.4 | 5 243.2 | 5 309.3 | 5 377.1 | 5 437.1 |
| FISH AND SEAFOOD | | | | | | | | | | | | |
| Product traded ²⁴ | USD/t | 3 053.4 | 3 033.3 | 3 167.4 | 3 196.7 | 3 213.1 | 3 253.0 | 3 277.4 | 3 326.9 | 3 331.0 | 3 352.9 | 3 377.5 |
| Aquaculture ²⁵ | USD/t | 3 014.9 | 2 966.9 | 3 118.5 | 3 152.6 | 3 192.5 | 3 253.8 | 3 303.9 | 3 365.4 | 3 391.1 | 3 431.6 | 3 468.4 |
| Capture ²⁶ | USD/t | 1 858.6 | 1 850.6 | 1 907.6 | 1 920.9 | 1 930.0 | 1 949.3 | 1 961.0 | 1 986.5 | 1 987.3 | 1 998.5 | 2 011.0 |
| Meal ²⁷ | USD/t | 1 466.6 | 1 501.2 | 1 550.0 | 1 393.5 | 1 384.0 | 1 431.9 | 1 467.1 | 1 563.3 | 1 630.4 | 1 592.1 | 1 623.0 |
| Oil ²⁸ | USD/t | 1 783.9 | 1 852.1 | 1 865.6 | 1 728.3 | 1 723.0 | 1 798.0 | 1 827.1 | 1 988.3 | 1 977.4 | 1 997.7 | 2 027.1 |
| DAIRY PRODUCTS | | | | | | | | | | | | |
| Butter ²⁹ | USD/t | 4 424.0 | 4 036.6 | 4 129.7 | 4 180.4 | 4 221.6 | 4 287.2 | 4 365.7 | 4 461.5 | 4 517.1 | 4 563.5 | 4 599.7 |
| Cheese ³⁰ | USD/t | 3 841.8 | 3 910.0 | 3 989.8 | 4 057.2 | 4 121.5 | 4 190.2 | 4 266.8 | 4 348.9 | 4 418.9 | 4 484.5 | 4 545.4 |
| Skim milk powder ³¹ | USD/t | 2 469.9 | 2 890.1 | 2 909.0 | 2 964.3 | 3 015.9 | 3 071.6 | 3 130.3 | 3 191.5 | 3 252.2 | 3 310.7 | 3 371.0 |
| Whole milk powder ³² | USD/t | 3 025.2 | 3 093.4 | 3 129.7 | 3 188.0 | 3 239.5 | 3 299.1 | 3 365.9 | 3 441.5 | 3 503.3 | 3 564.4 | 3 621.7 |
| Whey powder ³³ | USD/t | 909.0 | 915.6 | 926.5 | 928.8 | 939.6 | 958.0 | 983.2 | 1 007.1 | 1 027.2 | 1 046.2 | 1 066.3 |
| Casein ³⁴ | USD/t | 6 528.9 | 7 659.0 | 7 694.5 | 7 834.2 | 7 972.6 | 8 110.5 | 8 256.0 | 8 402.2 | 8 549.3 | 8 697.1 | 8 846.1 |
| BIOFUEL | | | | | | | | | | | | |
| Ethanol ³⁵ | USD/hi | 39.1 | 42.4 | 45.7 | 48.0 | 48.1 | 49.1 | 49.0 | 49.8 | 50.7 | 51.3 | 51.5 |
| Biodiesel ³⁶ | USD/hi | 84.4 | 88.5 | 89.4 | 92.5 | 92.9 | 93.7 | 94.5 | 95.6 | 97.0 | 97.1 | 97.3 |
| COTTON | | | | | | | | | | | | |
| Cotton ³⁷ | USD/t | 1 694.1 | 1 647.2 | 1 665.9 | 1 690.2 | 1 715.3 | 1 742.6 | 1 771.2 | 1 803.5 | 1 840.3 | 1 879.9 | 1 920.3 |
| ROOTS AND TUBERS | | | | | | | | | | | | |
| Roots and tubers ³⁸ | USD/t | 463.1 | 467.0 | 454.9 | 472.0 | 490.6 | 512.5 | 519.6 | 531.5 | 539.8 | 552.1 | 559.6 |
| USA GDP Deflator (2020=1) | Index | 0.987 | 1.011 | 1.026 | 1.045 | 1.065 | 1.086 | 1.107 | 1.128 | 1.151 | 1.173 | 1.196 |

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Table C.11. World prices (cont.)

Real price

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-------------------------------------|-----------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| CEREALS | | | | | | | | | | | | |
| Wheat ¹ | USD/t | 236.7 | 231.8 | 209.9 | 210.1 | 208.4 | 212.1 | 213.8 | 214.3 | 214.8 | 213.6 | 212.0 |
| Maize ² | USD/t | 177.6 | 186.0 | 167.8 | 162.1 | 162.8 | 167.0 | 168.6 | 169.0 | 168.5 | 167.8 | 166.9 |
| Other coarse grains ³ | USD/t | 209.1 | 206.9 | 191.8 | 191.1 | 190.4 | 193.2 | 194.3 | 195.3 | 195.8 | 195.6 | 194.6 |
| Rice ⁴ | USD/t | 470.1 | 507.7 | 475.6 | 455.9 | 450.3 | 442.6 | 436.8 | 429.9 | 424.5 | 417.8 | 411.7 |
| Distiller's dry grains ⁵ | USD/t | 164.0 | 161.4 | 145.1 | 142.2 | 142.7 | 146.1 | 147.1 | 147.6 | 147.6 | 147.2 | 146.7 |
| OILSEEDS | | | | | | | | | | | | |
| Soybean ⁶ | USD/t | 418.2 | 454.0 | 443.1 | 432.7 | 427.4 | 422.7 | 423.5 | 420.7 | 420.9 | 415.3 | 413.2 |
| Other oilseeds ⁷ | USD/t | 451.0 | 470.7 | 458.8 | 440.5 | 442.7 | 439.5 | 437.2 | 432.5 | 432.2 | 427.9 | 423.9 |
| Protein meals ⁸ | USD/t | 358.7 | 386.7 | 380.3 | 368.9 | 360.8 | 359.2 | 359.0 | 358.3 | 357.8 | 355.0 | 353.0 |
| Vegetable oils ⁹ | USD/t | 793.0 | 889.3 | 856.2 | 833.8 | 830.0 | 840.3 | 844.8 | 840.9 | 844.6 | 842.2 | 841.0 |
| SWEETENERS | | | | | | | | | | | | |
| Raw sugar ¹⁰ | USD/t | 293.8 | 306.9 | 313.1 | 319.0 | 323.5 | 322.7 | 324.4 | 322.9 | 321.7 | 320.4 | 317.9 |
| Refined sugar ¹¹ | USD/t | 373.6 | 393.0 | 398.2 | 403.1 | 406.8 | 404.6 | 404.6 | 401.6 | 399.4 | 397.3 | 394.0 |
| HFCS ¹² | USD/t dw | 901.5 | 579.5 | 593.7 | 589.4 | 593.7 | 593.1 | 599.4 | 598.4 | 595.4 | 591.5 | 587.2 |
| Molasses ¹³ | USD/t | 170.9 | 159.9 | 151.9 | 153.2 | 153.1 | 153.3 | 151.0 | 150.3 | 151.0 | 151.8 | 153.8 |
| MEAT | | | | | | | | | | | | |
| Beef and veal | | | | | | | | | | | | |
| Price, EU ¹⁴ | USD/t dwt | 4 223.0 | 3 903.7 | 3 914.4 | 3 813.7 | 3 720.9 | 3 661.4 | 3 592.8 | 3 521.9 | 3 446.2 | 3 371.4 | 3 293.5 |
| Price, United States ¹⁵ | USD/t dwt | 4 115.4 | 4 075.8 | 4 102.4 | 4 058.2 | 4 021.6 | 3 994.5 | 3 916.0 | 3 837.0 | 3 760.4 | 3 682.8 | 3 605.8 |
| Price, Brazil ¹⁶ | USD/t dwt | 4 226.5 | 4 240.3 | 4 272.3 | 4 164.2 | 4 048.3 | 3 975.4 | 3 904.3 | 3 831.3 | 3 748.5 | 3 668.1 | 3 590.2 |
| Pigmeat | | | | | | | | | | | | |
| Price, EU ¹⁷ | USD/t dwt | 1 825.0 | 1 858.7 | 1 847.5 | 1 807.2 | 1 762.8 | 1 733.5 | 1 690.4 | 1 649.8 | 1 601.4 | 1 562.4 | 1 515.9 |
| Price, United States ¹⁸ | USD/t dwt | 1 418.4 | 1 513.4 | 1 557.7 | 1 535.5 | 1 509.3 | 1 472.0 | 1 428.9 | 1 396.7 | 1 354.2 | 1 319.0 | 1 279.0 |
| Price, Brazil ¹⁹ | USD/t dwt | 2 219.5 | 2 401.3 | 2 361.8 | 2 287.7 | 2 225.2 | 2 192.9 | 2 146.0 | 2 102.9 | 2 045.9 | 2 002.2 | 1 944.7 |
| Poultry meat | | | | | | | | | | | | |
| Price, EU ²⁰ | USD/t rtc | 2 210.2 | 2 311.6 | 2 357.0 | 2 327.9 | 2 297.2 | 2 279.3 | 2 254.3 | 2 226.5 | 2 184.8 | 2 141.2 | 2 099.4 |
| Price, United States ²¹ | USD/t rtc | 1 086.2 | 957.7 | 979.4 | 967.0 | 949.4 | 939.1 | 927.8 | 916.4 | 899.1 | 880.9 | 863.3 |
| Price, Brazil ²² | USD/t rtc | 1 541.9 | 1 523.0 | 1 556.1 | 1 535.4 | 1 513.5 | 1 501.4 | 1 486.1 | 1 469.5 | 1 443.9 | 1 417.2 | 1 391.6 |
| Sheep meat | | | | | | | | | | | | |
| Price, New Zealand ²³ | USD/t dwt | 4 970.3 | 4 661.7 | 4 724.1 | 4 696.5 | 4 696.4 | 4 683.2 | 4 652.0 | 4 646.7 | 4 614.9 | 4 584.1 | 4 546.4 |
| FISH AND SEAFOOD | | | | | | | | | | | | |
| Product traded ²⁴ | USD/t | 3 096.1 | 2 999.6 | 3 087.0 | 3 060.0 | 3 018.1 | 2 996.8 | 2 961.4 | 2 948.4 | 2 895.4 | 2 858.4 | 2 824.2 |
| Aquaculture ²⁵ | USD/t | 3 056.3 | 2 934.0 | 3 039.3 | 3 017.8 | 2 998.7 | 2 997.6 | 2 985.3 | 2 982.5 | 2 947.6 | 2 925.6 | 2 900.2 |
| Capture ²⁶ | USD/t | 1 884.0 | 1 830.1 | 1 859.1 | 1 838.8 | 1 812.8 | 1 795.8 | 1 771.9 | 1 760.5 | 1 727.4 | 1 703.8 | 1 681.6 |
| Meal ²⁷ | USD/t | 1 487.1 | 1 484.5 | 1 510.6 | 1 334.0 | 1 300.0 | 1 319.2 | 1 325.6 | 1 385.4 | 1 417.2 | 1 357.4 | 1 357.1 |
| Oil ²⁸ | USD/t | 1 806.6 | 1 831.5 | 1 818.2 | 1 654.4 | 1 618.4 | 1 656.4 | 1 650.9 | 1 762.1 | 1 718.8 | 1 703.1 | 1 695.0 |
| DAIRY PRODUCTS | | | | | | | | | | | | |
| Butter ²⁹ | USD/t | 4 489.6 | 3 991.8 | 4 024.9 | 4 001.7 | 3 965.3 | 3 949.7 | 3 944.8 | 3 954.0 | 3 926.4 | 3 890.6 | 3 846.1 |
| Cheese ³⁰ | USD/t | 3 892.8 | 3 866.5 | 3 888.5 | 3 883.7 | 3 871.3 | 3 860.2 | 3 855.4 | 3 854.2 | 3 841.0 | 3 823.2 | 3 800.7 |
| Skim milk powder ³¹ | USD/t | 2 499.5 | 2 858.0 | 2 835.1 | 2 837.5 | 2 832.8 | 2 829.8 | 2 828.4 | 2 828.5 | 2 826.9 | 2 822.5 | 2 818.8 |
| Whole milk powder ³² | USD/t | 3 066.8 | 3 059.0 | 3 050.2 | 3 051.8 | 3 042.9 | 3 039.3 | 3 041.4 | 3 050.0 | 3 045.1 | 3 038.8 | 3 028.3 |
| Whey powder ³³ | USD/t | 921.7 | 905.4 | 903.0 | 889.1 | 882.5 | 882.5 | 888.4 | 892.6 | 892.9 | 891.9 | 891.6 |
| Casein ³⁴ | USD/t | 6 609.8 | 7 573.9 | 7 499.0 | 7 499.2 | 7 488.6 | 7 471.9 | 7 459.9 | 7 446.3 | 7 431.2 | 7 414.6 | 7 396.9 |
| BIOFUEL | | | | | | | | | | | | |
| Ethanol ³⁵ | USD/hl | 39.7 | 42.0 | 44.5 | 45.9 | 45.2 | 45.2 | 44.3 | 44.2 | 44.0 | 43.7 | 43.0 |
| Biodiesel ³⁶ | USD/hl | 85.6 | 87.5 | 87.1 | 88.5 | 87.3 | 86.4 | 85.4 | 84.8 | 84.3 | 82.8 | 81.4 |
| COTTON | | | | | | | | | | | | |
| Cotton ³⁷ | USD/t | 1 718.5 | 1 628.9 | 1 623.6 | 1 618.0 | 1 611.2 | 1 605.4 | 1 600.4 | 1 598.3 | 1 599.7 | 1 602.7 | 1 605.7 |
| ROOTS AND TUBERS | | | | | | | | | | | | |
| Roots and tubers ³⁸ | USD/t | 469.8 | 461.8 | 443.4 | 451.9 | 460.8 | 472.1 | 469.5 | 471.0 | 469.2 | 470.7 | 467.9 |

ANNEX C

Note: This table is a compilation of price information presented in the detailed commodity tables further in this annex. Prices for crops are on marketing year basis and those for other products on calendar year basis. See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated. Real prices are deflated using USA GDP base year 2020=1.

1. No.2 hard red winter wheat, ordinary protein, United States FOB Gulf Ports (June/May).
2. No.2 yellow corn, United States FOB Gulf Ports (September/August).
3. Feed barley, Europe, FOB Rouen (July/June).
4. Milled 100%, grade b, nominal price quote, FOB Bangkok (January/December).
5. Wholesale price, Central Illinois (September/August).
6. Soybean, U.S., CIF Rotterdam (October/September).
7. Rapeseed, Europe, CIF Hamburg (October/September).
8. Weighted average meal price, European port (October/September).
9. Weighted average price of oilseed oils and palm oil, European port (October/September).
10. Raw sugar world price, ICE contract No11 nearby (October/September).
11. Refined sugar price, Euronext, Liffe, Contract No. 407 London, Europe (October/September).
12. United States wholesale spot price for HFCS-55, dry weight (October/September).
13. Unit import price, Europe (October/September).
14. EU average beef producer price.
15. Choice steers, 1100-1300 lb lw, Nebraska - lw to dwt conversion factor 0.63.
16. Brazil: frozen beef, export unit value, product weight.
17. EU average pigmeat producer price.
18. Barrows and gilts, No. 1-3, 230-250 lb lw, Iowa/South Minnesota - lw to dwt conversion factor 0.74.
19. Brazil: frozen pigmeat, export unit value, product weight.
20. EU average producer price.
21. National composite wholesale, broiler.
22. Brazil: export unit value for chicken (FOB), product weight.
23. New Zealand lamb price carcass weight, all grade average.
24. World unit value of trade (sum of exports and imports).
25. World unit value of aquaculture fisheries production (live weight basis).
26. FAO estimated value of world ex-vessel value of capture fisheries production excluding for reduction.
27. Fishmeal, 64-65% protein, Hamburg, Germany.
28. Fish oil any origin, N.W. Europe.
29. FOB export price, butter, 82% butterfat, Oceania.
30. FOB export price, cheddar cheese, 39% moisture, Oceania.
31. FOB export price, non-fat dry milk, 1.25% butterfat, Oceania.
32. FOB export price, WMP 26% butterfat, Oceania.
33. FOB export price, sweet whey non-hygroscopic, Western Europe.
34. Export price, New Zealand.
35. Wholesale price, United States, Omaha.
36. Producer price Germany net of biodiesel tariff and energy tax.
37. Cotlook A index, Middling 1 1/8", c.f.r. far Eastern ports (August/July).
38. Thailand, Bangkok, Cassava (flour), wholesale.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.12.1. World trade projections, imports

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-------------------------------|-----------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Wheat | | | | | | | | | | | | |
| World Trade | kt | 178 477 | 190 875 | 193 888 | 196 659 | 199 202 | 201 993 | 205 803 | 208 894 | 211 685 | 214 632 | 217 459 |
| OECD ¹ | kt | 41 086 | 41 669 | 42 062 | 41 795 | 41 859 | 42 012 | 42 228 | 42 490 | 42 666 | 42 921 | 43 146 |
| Developing countries | kt | 147 633 | 160 363 | 162 982 | 165 810 | 168 248 | 170 816 | 174 492 | 177 380 | 180 057 | 182 827 | 185 485 |
| Least Developed Countries | kt | 17 973 | 19 729 | 20 657 | 21 076 | 21 715 | 22 350 | 23 091 | 23 759 | 24 423 | 25 121 | 25 828 |
| Maize | | | | | | | | | | | | |
| World Trade | kt | 175 725 | 184 510 | 185 649 | 185 736 | 187 071 | 189 590 | 192 680 | 195 615 | 198 780 | 201 507 | 204 238 |
| OECD ¹ | kt | 82 246 | 82 685 | 84 561 | 85 289 | 85 550 | 86 307 | 87 374 | 88 390 | 89 608 | 90 697 | 91 759 |
| Developing countries | kt | 131 543 | 141 604 | 141 188 | 141 379 | 143 097 | 145 397 | 147 971 | 150 566 | 153 215 | 155 554 | 157 938 |
| Least Developed Countries | kt | 3 332 | 3 552 | 3 843 | 3 928 | 3 876 | 3 901 | 3 989 | 4 084 | 4 179 | 4 247 | 4 274 |
| Other coarse grains | | | | | | | | | | | | |
| World Trade | kt | 36 893 | 40 272 | 41 325 | 41 799 | 42 362 | 43 110 | 44 035 | 44 857 | 45 635 | 46 315 | 47 009 |
| OECD ¹ | kt | 7 943 | 7 548 | 7 769 | 7 759 | 7 850 | 7 983 | 8 188 | 8 390 | 8 603 | 8 779 | 8 963 |
| Developing countries | kt | 29 760 | 33 138 | 34 062 | 34 576 | 35 142 | 35 861 | 36 686 | 37 424 | 38 110 | 38 721 | 39 348 |
| Least Developed Countries | kt | 677 | 508 | 635 | 709 | 797 | 969 | 1 156 | 1 314 | 1 440 | 1 525 | 1 616 |
| Rice | | | | | | | | | | | | |
| World Trade | kt | 45 333 | 49 264 | 50 681 | 52 134 | 52 810 | 53 921 | 55 607 | 57 400 | 58 863 | 60 584 | 62 261 |
| OECD ¹ | kt | 6 625 | 6 983 | 7 105 | 7 182 | 7 233 | 7 330 | 7 430 | 7 540 | 7 648 | 7 785 | 7 889 |
| Developing countries | kt | 38 874 | 42 497 | 43 791 | 45 162 | 45 769 | 46 792 | 48 395 | 50 102 | 51 480 | 53 088 | 54 678 |
| Least Developed Countries | kt | 9 830 | 10 896 | 11 651 | 12 372 | 13 059 | 13 847 | 14 715 | 15 592 | 16 379 | 17 218 | 18 068 |
| Soybean | | | | | | | | | | | | |
| World Trade | kt | 158 168 | 161 711 | 164 870 | 167 216 | 169 980 | 171 568 | 172 989 | 174 401 | 175 690 | 177 303 | 178 605 |
| OECD ¹ | kt | 31 013 | 30 242 | 29 722 | 30 661 | 30 833 | 30 923 | 30 845 | 30 836 | 30 777 | 30 824 | 30 784 |
| Developing countries | kt | 134 405 | 138 911 | 142 735 | 144 297 | 147 032 | 148 747 | 150 400 | 152 015 | 153 540 | 155 330 | 156 866 |
| Least Developed Countries | kt | 1 605 | 1 815 | 1 873 | 1 921 | 1 974 | 2 036 | 2 090 | 2 144 | 2 196 | 2 253 | 2 307 |
| Other oilseeds | | | | | | | | | | | | |
| World Trade | kt | 21 625 | 21 305 | 21 530 | 21 947 | 22 155 | 22 506 | 22 868 | 23 175 | 23 453 | 23 730 | 24 047 |
| OECD ¹ | kt | 13 264 | 12 607 | 12 606 | 12 753 | 12 754 | 12 816 | 12 881 | 12 928 | 12 962 | 12 992 | 13 026 |
| Developing countries | kt | 10 059 | 10 165 | 10 404 | 10 718 | 10 969 | 11 285 | 11 613 | 11 905 | 12 159 | 12 417 | 12 712 |
| Least Developed Countries | kt | 287 | 313 | 316 | 316 | 319 | 323 | 329 | 333 | 337 | 340 | 345 |
| Protein meals | | | | | | | | | | | | |
| World Trade | kt | 91 660 | 93 459 | 93 819 | 94 823 | 95 077 | 96 115 | 96 920 | 97 856 | 98 727 | 99 619 | 100 527 |
| OECD ¹ | kt | 48 550 | 48 317 | 48 797 | 48 303 | 47 820 | 47 666 | 47 646 | 47 581 | 47 466 | 47 333 | 47 237 |
| Developing countries | kt | 51 202 | 53 345 | 53 367 | 54 987 | 55 865 | 57 178 | 58 142 | 59 278 | 60 401 | 61 553 | 62 703 |
| Least Developed Countries | kt | 1 127 | 1 398 | 1 439 | 1 542 | 1 624 | 1 716 | 1 787 | 1 857 | 1 925 | 1 986 | 2 049 |
| Vegetable oils | | | | | | | | | | | | |
| World Trade | kt | 85 894 | 88 052 | 89 120 | 90 460 | 91 459 | 92 436 | 93 247 | 94 008 | 94 958 | 95 934 | 96 919 |
| OECD ¹ | kt | 24 329 | 24 823 | 24 806 | 24 637 | 24 519 | 24 287 | 23 803 | 23 148 | 22 881 | 22 572 | 22 286 |
| Developing countries | kt | 63 268 | 65 171 | 66 261 | 67 782 | 68 900 | 70 114 | 71 423 | 72 849 | 74 070 | 75 357 | 76 630 |
| Least Developed Countries | kt | 7 392 | 7 821 | 8 099 | 8 401 | 8 678 | 8 935 | 9 208 | 9 495 | 9 756 | 10 029 | 10 301 |
| Sugar | | | | | | | | | | | | |
| World Trade | kt | 59 205 | 58 704 | 59 076 | 59 789 | 60 830 | 61 905 | 63 139 | 64 043 | 65 086 | 66 207 | 67 480 |
| OECD ¹ | kt | 12 568 | 12 617 | 12 331 | 12 384 | 12 446 | 12 443 | 12 427 | 12 402 | 12 404 | 12 376 | 12 358 |
| Developing countries | kt | 46 475 | 46 072 | 46 751 | 47 438 | 48 477 | 49 582 | 50 806 | 51 709 | 52 750 | 53 885 | 55 167 |
| Least Developed Countries | kt | 9 422 | 9 280 | 9 580 | 9 878 | 10 199 | 10 591 | 10 982 | 11 414 | 11 899 | 12 419 | 12 972 |
| Beef² | | | | | | | | | | | | |
| World Trade | kt | 10 260 | 10 293 | 10 342 | 10 431 | 10 548 | 10 623 | 10 728 | 10 846 | 10 959 | 11 073 | 11 191 |
| OECD ¹ | kt | 4 475 | 4 418 | 4 465 | 4 531 | 4 590 | 4 625 | 4 651 | 4 690 | 4 732 | 4 775 | 4 823 |
| Developing countries | kt | 6 168 | 6 301 | 6 347 | 6 387 | 6 468 | 6 530 | 6 624 | 6 717 | 6 801 | 6 891 | 6 981 |
| Least Developed Countries | kt | 109 | 150 | 146 | 149 | 158 | 168 | 176 | 185 | 194 | 205 | 217 |
| Pigmeat² | | | | | | | | | | | | |
| World Trade | kt | 9 855 | 10 715 | 10 238 | 9 763 | 9 690 | 9 635 | 9 620 | 9 659 | 9 712 | 9 782 | 9 866 |
| OECD ¹ | kt | 5 194 | 5 149 | 5 226 | 5 336 | 5 369 | 5 404 | 5 438 | 5 469 | 5 499 | 5 527 | 5 557 |
| Developing countries | kt | 6 193 | 7 117 | 6 577 | 6 025 | 5 912 | 5 822 | 5 778 | 5 788 | 5 811 | 5 854 | 5 908 |
| Least Developed Countries | kt | 158 | 160 | 168 | 196 | 223 | 249 | 278 | 310 | 343 | 377 | 413 |
| Poultry meat | | | | | | | | | | | | |
| World Trade | kt | 13 203 | 13 202 | 13 243 | 13 459 | 13 819 | 14 144 | 14 437 | 14 746 | 15 077 | 15 440 | 15 807 |
| OECD ¹ | kt | 4 098 | 4 111 | 4 176 | 4 267 | 4 327 | 4 377 | 4 416 | 4 453 | 4 490 | 4 529 | 4 570 |
| Developing countries | kt | 8 801 | 8 883 | 8 943 | 9 098 | 9 407 | 9 700 | 9 970 | 10 256 | 10 559 | 10 890 | 11 223 |
| Least Developed Countries | kt | 946 | 814 | 881 | 954 | 1 034 | 1 113 | 1 191 | 1 271 | 1 357 | 1 449 | 1 543 |
| Sheep meat² | | | | | | | | | | | | |
| World Trade | kt | 1 131 | 1 072 | 1 099 | 1 123 | 1 133 | 1 137 | 1 139 | 1 141 | 1 144 | 1 148 | 1 152 |
| OECD ¹ | kt | 438 | 416 | 418 | 424 | 426 | 426 | 425 | 424 | 423 | 422 | 420 |
| Developing countries | kt | 710 | 674 | 699 | 717 | 726 | 730 | 732 | 735 | 740 | 745 | 751 |
| Least Developed Countries | kt | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

ANNEX C

Table C.12.1. World trade projections, imports (cont.)

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-----------------------------|----|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Butter | | | | | | | | | | | | |
| World Trade | kt | 1 057 | 1 039 | 1 048 | 1 056 | 1 066 | 1 079 | 1 091 | 1 103 | 1 117 | 1 130 | 1 145 |
| OECD ¹ | kt | 349 | 340 | 338 | 334 | 332 | 332 | 332 | 333 | 335 | 338 | 340 |
| Developing countries | kt | 610 | 603 | 610 | 617 | 626 | 638 | 650 | 660 | 671 | 682 | 693 |
| Least Developed Countries | kt | 12 | 12 | 13 | 12 | 12 | 14 | 16 | 18 | 19 | 21 | 23 |
| Cheese | | | | | | | | | | | | |
| World Trade | kt | 3 243 | 3 376 | 3 433 | 3 483 | 3 535 | 3 592 | 3 645 | 3 698 | 3 751 | 3 804 | 3 857 |
| OECD ¹ | kt | 1 716 | 1 758 | 1 783 | 1 801 | 1 819 | 1 842 | 1 864 | 1 887 | 1 910 | 1 931 | 1 952 |
| Developing countries | kt | 1 457 | 1 527 | 1 557 | 1 581 | 1 611 | 1 644 | 1 673 | 1 701 | 1 729 | 1 759 | 1 788 |
| Least Developed Countries | kt | 23 | 25 | 26 | 27 | 28 | 28 | 29 | 29 | 30 | 31 | 31 |
| Whole milk powder | | | | | | | | | | | | |
| World Trade | kt | 2 699 | 2 704 | 2 736 | 2 752 | 2 775 | 2 801 | 2 822 | 2 841 | 2 862 | 2 882 | 2 903 |
| OECD ¹ | kt | 168 | 180 | 171 | 168 | 167 | 166 | 164 | 163 | 162 | 161 | 160 |
| Developing countries | kt | 2 560 | 2 569 | 2 608 | 2 625 | 2 649 | 2 675 | 2 697 | 2 716 | 2 738 | 2 759 | 2 780 |
| Least Developed Countries | kt | 228 | 219 | 229 | 237 | 245 | 254 | 262 | 270 | 278 | 287 | 295 |
| Skim milk powder | | | | | | | | | | | | |
| World Trade | kt | 2 632 | 2 610 | 2 667 | 2 712 | 2 760 | 2 811 | 2 861 | 2 911 | 2 961 | 3 011 | 3 059 |
| OECD ¹ | kt | 572 | 581 | 591 | 594 | 598 | 602 | 607 | 611 | 616 | 621 | 625 |
| Developing countries | kt | 2 338 | 2 305 | 2 356 | 2 400 | 2 448 | 2 499 | 2 550 | 2 600 | 2 649 | 2 698 | 2 746 |
| Least Developed Countries | kt | 141 | 129 | 137 | 142 | 148 | 153 | 159 | 165 | 170 | 176 | 181 |
| Fish | | | | | | | | | | | | |
| World Trade | kt | 42 592 | 41 280 | 42 320 | 42 639 | 42 770 | 43 123 | 43 381 | 43 499 | 43 820 | 44 109 | 44 388 |
| OECD ¹ | kt | 22 921 | 22 220 | 22 539 | 22 778 | 22 746 | 22 949 | 22 971 | 23 107 | 23 111 | 23 259 | 23 386 |
| Developing countries | kt | 20 185 | 19 538 | 20 360 | 20 478 | 20 618 | 20 803 | 21 063 | 21 107 | 21 449 | 21 545 | 21 703 |
| Least Developed Countries | kt | 1 301 | 1 238 | 1 232 | 1 262 | 1 295 | 1 317 | 1 342 | 1 359 | 1 383 | 1 403 | 1 421 |
| Fishmeal³ | | | | | | | | | | | | |
| World Trade | kt | 3 240 | 3 359 | 3 159 | 3 232 | 3 311 | 3 348 | 3 354 | 3 242 | 3 338 | 3 402 | 3 429 |
| OECD ¹ | kt | 1 126 | 1 044 | 993 | 1 031 | 1 038 | 1 038 | 1 025 | 968 | 991 | 983 | 971 |
| Developing countries | kt | 2 347 | 2 582 | 2 428 | 2 444 | 2 518 | 2 556 | 2 574 | 2 513 | 2 592 | 2 662 | 2 700 |
| Least Developed Countries | kt | 58 | 69 | 67 | 71 | 76 | 77 | 79 | 76 | 73 | 79 | 80 |
| Fish oil³ | | | | | | | | | | | | |
| World Trade | kt | 877 | 901 | 892 | 910 | 933 | 939 | 956 | 939 | 961 | 971 | 974 |
| OECD ¹ | kt | 722 | 728 | 723 | 735 | 750 | 753 | 766 | 751 | 770 | 774 | 774 |
| Developing countries | kt | 296 | 310 | 301 | 305 | 321 | 322 | 331 | 321 | 328 | 337 | 343 |
| Least Developed Countries | kt | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Ethanol | | | | | | | | | | | | |
| World Trade | kt | 11 662 | 11 515 | 11 595 | 11 395 | 11 350 | 11 194 | 11 090 | 10 990 | 10 873 | 10 801 | 10 692 |
| OECD ¹ | kt | 6 941 | 7 199 | 7 256 | 7 107 | 7 045 | 6 900 | 6 805 | 6 740 | 6 659 | 6 591 | 6 494 |
| Developing countries | kt | 5 702 | 5 423 | 5 421 | 5 358 | 5 369 | 5 353 | 5 338 | 5 299 | 5 257 | 5 248 | 5 231 |
| Least Developed Countries | kt | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Biodiesel | | | | | | | | | | | | |
| World Trade | kt | 7 717 | 6 774 | 6 715 | 6 653 | 6 570 | 6 460 | 6 468 | 6 364 | 6 232 | 6 163 | 6 080 |
| OECD ¹ | kt | 6 890 | 6 514 | 6 403 | 6 282 | 6 092 | 5 919 | 5 806 | 5 602 | 5 425 | 5 217 | 5 033 |
| Developing countries | kt | 827 | 260 | 311 | 371 | 478 | 541 | 662 | 762 | 807 | 946 | 1 047 |
| Least Developed Countries | kt | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cotton | | | | | | | | | | | | |
| World Trade | kt | 8 962 | 9 521 | 9 748 | 9 916 | 10 115 | 10 317 | 10 524 | 10 717 | 10 905 | 11 095 | 11 296 |
| OECD ¹ | kt | 1 569 | 1 667 | 1 721 | 1 738 | 1 765 | 1 789 | 1 816 | 1 839 | 1 864 | 1 887 | 1 911 |
| Developing countries | kt | 8 639 | 9 171 | 9 380 | 9 554 | 9 751 | 9 953 | 10 159 | 10 353 | 10 538 | 10 728 | 10 928 |
| Least Developed Countries | kt | 1 478 | 1 474 | 1 536 | 1 593 | 1 656 | 1 722 | 1 789 | 1 858 | 1 928 | 2 001 | 2 076 |
| Roots and tubers | | | | | | | | | | | | |
| World Trade | kt | 17 939 | 18 399 | 18 724 | 19 076 | 19 420 | 19 782 | 20 104 | 20 430 | 20 779 | 21 158 | 21 549 |
| OECD ¹ | kt | 3 600 | 3 670 | 3 682 | 3 729 | 3 730 | 3 741 | 3 754 | 3 771 | 3 785 | 3 797 | 3 804 |
| Developing countries | kt | 14 956 | 15 376 | 15 670 | 15 980 | 16 335 | 16 695 | 16 998 | 17 312 | 17 647 | 18 025 | 18 410 |
| Least Developed Countries | kt | 228 | 254 | 269 | 282 | 271 | 267 | 279 | 288 | 301 | 311 | 323 |

Note: The values do not add up to world trade due to double counting of certain countries and statistical differences (i.e. LDC are already included in the Developing countries aggregate). Average 2018-20est: Data for 2020 are estimated.

1. Excludes Iceland (except for fish products) and Costa Rica but includes all EU member countries.
2. Excludes trade of live animals.
3. Data are in product weight.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.12.2. World trade projections, exports

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-------------------------------|----|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Wheat | | | | | | | | | | | | |
| OECD ¹ | kt | 99 895 | 101 786 | 104 026 | 104 414 | 104 896 | 105 837 | 107 396 | 108 576 | 109 447 | 110 477 | 111 466 |
| Developing countries | kt | 24 129 | 25 272 | 24 918 | 25 538 | 26 264 | 26 762 | 26 875 | 27 153 | 27 423 | 27 760 | 28 049 |
| Least Developed Countries | kt | 108 | 100 | 98 | 97 | 95 | 93 | 92 | 90 | 89 | 87 | 86 |
| Maize | | | | | | | | | | | | |
| OECD ¹ | kt | 61 301 | 66 868 | 67 355 | 66 203 | 64 830 | 64 717 | 65 432 | 66 191 | 67 022 | 67 499 | 67 724 |
| Developing countries | kt | 81 769 | 78 803 | 79 083 | 79 153 | 80 182 | 81 697 | 83 227 | 84 433 | 85 703 | 86 779 | 88 025 |
| Least Developed Countries | kt | 3 495 | 3 668 | 3 396 | 3 335 | 3 409 | 3 389 | 3 292 | 3 205 | 3 128 | 3 078 | 3 021 |
| Other coarse grains | | | | | | | | | | | | |
| OECD ¹ | kt | 27 198 | 29 595 | 30 244 | 30 319 | 30 231 | 30 481 | 31 003 | 31 425 | 31 768 | 32 002 | 32 211 |
| Developing countries | kt | 4 802 | 5 110 | 5 080 | 5 242 | 5 476 | 5 678 | 5 797 | 5 897 | 5 979 | 6 068 | 6 177 |
| Least Developed Countries | kt | 666 | 784 | 647 | 615 | 563 | 468 | 391 | 342 | 313 | 298 | 286 |
| Rice | | | | | | | | | | | | |
| OECD ¹ | kt | 3 870 | 3 818 | 3 864 | 3 896 | 3 914 | 3 939 | 3 991 | 4 058 | 4 094 | 4 154 | 4 205 |
| Developing countries | kt | 41 881 | 45 202 | 46 604 | 48 045 | 48 689 | 49 757 | 51 369 | 53 074 | 54 480 | 56 121 | 57 727 |
| Least Developed Countries | kt | 4 287 | 5 064 | 5 324 | 5 871 | 6 248 | 6 979 | 7 684 | 8 180 | 8 706 | 9 248 | 9 832 |
| Soybean | | | | | | | | | | | | |
| OECD ¹ | kt | 55 446 | 55 810 | 56 482 | 57 099 | 58 735 | 59 700 | 60 330 | 60 848 | 61 370 | 61 931 | 62 557 |
| Developing countries | kt | 98 213 | 103 081 | 105 507 | 107 160 | 108 242 | 108 834 | 109 591 | 110 443 | 111 168 | 112 180 | 112 817 |
| Least Developed Countries | kt | 21 | 18 | 18 | 17 | 17 | 16 | 16 | 16 | 16 | 15 | 15 |
| Other oilseeds | | | | | | | | | | | | |
| OECD ¹ | kt | 13 644 | 14 135 | 14 188 | 14 422 | 14 400 | 14 570 | 14 789 | 14 902 | 14 968 | 15 077 | 15 226 |
| Developing countries | kt | 2 879 | 2 691 | 2 664 | 2 623 | 2 657 | 2 671 | 2 688 | 2 708 | 2 745 | 2 734 | 2 730 |
| Least Developed Countries | kt | 191 | 190 | 169 | 160 | 145 | 136 | 120 | 109 | 100 | 94 | 86 |
| Protein meals | | | | | | | | | | | | |
| OECD ¹ | kt | 20 719 | 20 348 | 20 462 | 21 085 | 21 063 | 21 390 | 21 521 | 21 771 | 22 011 | 22 254 | 22 477 |
| Developing countries | kt | 64 294 | 65 081 | 65 231 | 65 421 | 65 500 | 66 002 | 66 484 | 66 976 | 67 411 | 67 856 | 68 327 |
| Least Developed Countries | kt | 352 | 360 | 355 | 340 | 322 | 311 | 305 | 299 | 293 | 288 | 284 |
| Vegetable oils | | | | | | | | | | | | |
| OECD ¹ | kt | 9 318 | 9 076 | 9 267 | 9 523 | 9 489 | 9 577 | 9 680 | 9 751 | 9 809 | 9 877 | 9 942 |
| Developing countries | kt | 68 755 | 70 009 | 70 555 | 71 328 | 72 175 | 72 815 | 73 288 | 73 731 | 74 379 | 75 042 | 75 721 |
| Least Developed Countries | kt | 545 | 549 | 528 | 506 | 487 | 471 | 455 | 439 | 426 | 412 | 400 |
| Sugar | | | | | | | | | | | | |
| OECD ¹ | kt | 7 929 | 8 037 | 7 979 | 8 070 | 8 224 | 8 425 | 8 662 | 8 700 | 8 879 | 8 985 | 9 063 |
| Developing countries | kt | 54 600 | 54 829 | 55 093 | 55 607 | 56 535 | 57 369 | 58 248 | 58 972 | 59 726 | 60 628 | 61 707 |
| Least Developed Countries | kt | 2 638 | 1 443 | 1 352 | 1 221 | 1 089 | 989 | 900 | 846 | 825 | 820 | 817 |
| Beef² | | | | | | | | | | | | |
| OECD ¹ | kt | 4 780 | 4 821 | 4 904 | 4 964 | 5 061 | 5 095 | 5 147 | 5 212 | 5 270 | 5 330 | 5 393 |
| Developing countries | kt | 5 531 | 5 431 | 5 400 | 5 404 | 5 419 | 5 474 | 5 540 | 5 608 | 5 674 | 5 739 | 5 804 |
| Least Developed Countries | kt | 15 | 14 | 12 | 10 | 9 | 9 | 8 | 7 | 7 | 7 | 7 |
| Pigmeat² | | | | | | | | | | | | |
| OECD ¹ | kt | 9 195 | 9 549 | 9 213 | 8 760 | 8 676 | 8 625 | 8 607 | 8 636 | 8 663 | 8 700 | 8 747 |
| Developing countries | kt | 1 448 | 1 638 | 1 461 | 1 404 | 1 366 | 1 363 | 1 363 | 1 369 | 1 390 | 1 418 | 1 448 |
| Least Developed Countries | kt | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Poultry meat | | | | | | | | | | | | |
| OECD ¹ | kt | 7 379 | 7 447 | 7 429 | 7 421 | 7 584 | 7 726 | 7 849 | 7 958 | 8 081 | 8 214 | 8 357 |
| Developing countries | kt | 7 469 | 7 271 | 7 316 | 7 537 | 7 742 | 7 940 | 8 128 | 8 347 | 8 578 | 8 828 | 9 071 |
| Least Developed Countries | kt | 63 | 36 | 34 | 32 | 29 | 28 | 26 | 25 | 23 | 22 | 21 |
| Sheep meat² | | | | | | | | | | | | |
| OECD ¹ | kt | 1 072 | 1 035 | 1 075 | 1 090 | 1 096 | 1 097 | 1 099 | 1 101 | 1 104 | 1 107 | 1 111 |
| Developing countries | kt | 78 | 76 | 70 | 74 | 75 | 74 | 72 | 69 | 67 | 64 | 61 |
| Least Developed Countries | kt | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| Butter | | | | | | | | | | | | |
| OECD ¹ | kt | 828 | 858 | 867 | 873 | 884 | 898 | 909 | 918 | 927 | 936 | 945 |
| Developing countries | kt | 102 | 87 | 86 | 87 | 84 | 80 | 78 | 77 | 77 | 78 | 79 |
| Least Developed Countries | kt | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cheese | | | | | | | | | | | | |
| OECD ¹ | kt | 2 521 | 2 609 | 2 666 | 2 712 | 2 761 | 2 816 | 2 865 | 2 914 | 2 960 | 3 007 | 3 053 |
| Developing countries | kt | 495 | 491 | 492 | 494 | 495 | 495 | 499 | 502 | 506 | 508 | 512 |
| Least Developed Countries | kt | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Whole milk powder | | | | | | | | | | | | |
| OECD ¹ | kt | 1 897 | 1 963 | 1 992 | 2 001 | 2 016 | 2 035 | 2 046 | 2 056 | 2 069 | 2 081 | 2 094 |
| Developing countries | kt | 720 | 713 | 716 | 722 | 728 | 734 | 744 | 751 | 758 | 765 | 772 |
| Least Developed Countries | kt | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Skim milk powder | | | | | | | | | | | | |
| OECD ¹ | kt | 2 385 | 2 356 | 2 412 | 2 457 | 2 504 | 2 554 | 2 604 | 2 652 | 2 701 | 2 749 | 2 796 |
| Developing countries | kt | 195 | 114 | 112 | 112 | 111 | 111 | 111 | 110 | 110 | 110 | 110 |
| Least Developed Countries | kt | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

ANNEX C

Table C.12.2. World trade projections, exports (cont.)

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-----------------------------|----|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fish³ | | | | | | | | | | | | |
| OECD ¹ | kt | 13 046 | 13 099 | 13 140 | 13 300 | 13 485 | 13 644 | 13 793 | 13 734 | 13 871 | 13 928 | 14 011 |
| Developing countries | kt | 27 568 | 26 293 | 27 200 | 27 375 | 27 388 | 27 603 | 27 725 | 27 782 | 28 053 | 28 303 | 28 520 |
| Least Developed Countries | kt | 1 983 | 1 818 | 1 867 | 1 853 | 1 835 | 1 836 | 1 834 | 1 846 | 1 846 | 1 855 | 1 866 |
| Fishmeal⁴ | | | | | | | | | | | | |
| OECD ¹ | kt | 923 | 914 | 887 | 888 | 909 | 943 | 943 | 930 | 946 | 944 | 960 |
| Developing countries | kt | 2 293 | 2 402 | 2 170 | 2 280 | 2 332 | 2 350 | 2 353 | 2 218 | 2 325 | 2 388 | 2 398 |
| Least Developed Countries | kt | 140 | 130 | 131 | 131 | 132 | 132 | 132 | 132 | 132 | 133 | 133 |
| Fish oil⁴ | | | | | | | | | | | | |
| OECD ¹ | kt | 533 | 525 | 546 | 545 | 548 | 551 | 555 | 553 | 560 | 556 | 556 |
| Developing countries | kt | 477 | 485 | 458 | 475 | 481 | 483 | 491 | 468 | 481 | 492 | 492 |
| Least Developed Countries | kt | 36 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| Ethanol | | | | | | | | | | | | |
| OECD ¹ | kt | 6 953 | 6 944 | 7 039 | 6 842 | 6 834 | 6 685 | 6 576 | 6 450 | 6 301 | 6 221 | 6 095 |
| Developing countries | kt | 3 701 | 3 868 | 3 852 | 3 846 | 3 809 | 3 801 | 3 804 | 3 830 | 3 862 | 3 871 | 3 887 |
| Least Developed Countries | kt | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Biodiesel | | | | | | | | | | | | |
| OECD ¹ | kt | 2 709 | 2 544 | 2 540 | 2 417 | 2 302 | 2 168 | 2 159 | 2 053 | 1 960 | 1 955 | 1 942 |
| Developing countries | kt | 4 378 | 3 436 | 3 379 | 3 440 | 3 471 | 3 495 | 3 511 | 3 513 | 3 475 | 3 411 | 3 340 |
| Least Developed Countries | kt | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cotton | | | | | | | | | | | | |
| OECD ¹ | kt | 4 375 | 4 294 | 4 448 | 4 530 | 4 645 | 4 764 | 4 877 | 4 971 | 5 050 | 5 129 | 5 214 |
| Developing countries | kt | 4 522 | 5 030 | 5 119 | 5 221 | 5 319 | 5 419 | 5 528 | 5 639 | 5 761 | 5 882 | 6 008 |
| Least Developed Countries | kt | 1 048 | 997 | 1 022 | 1 060 | 1 090 | 1 122 | 1 156 | 1 192 | 1 229 | 1 268 | 1 307 |
| Roots and tubers | | | | | | | | | | | | |
| OECD ¹ | kt | 1 741 | 1 750 | 1 806 | 1 784 | 1 820 | 1 838 | 1 857 | 1 876 | 1 895 | 1 925 | 1 957 |
| Developing countries | kt | 11 861 | 12 224 | 12 496 | 12 865 | 13 171 | 13 512 | 13 816 | 14 122 | 14 452 | 14 799 | 15 157 |
| Least Developed Countries | kt | 133 | 122 | 117 | 122 | 120 | 125 | 122 | 121 | 120 | 120 | 120 |

Note: Average 2018-20est: Data for 2020 are estimated.

1. Excludes Iceland (except for fish products) and Costa Rica but includes all EU member countries.
2. Excludes trade of live animals.
3. Data are in live weight equivalent and refer to trade of food fish i.e. for human consumption.
4. Data are in product weight.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.13.1. Wheat projections: Production and trade

Marketing year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|--------------------|----------------|-------------------------|-------------|--------------------|----------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 752 703 | 839 661 | 1.28 | 0.89 | 178 477 | 217 459 | 2.65 | 1.47 | 181 239 | 219 820 | 2.81 | 1.46 |
| NORTH AMERICA | 84 597 | 91 429 | -0.30 | 0.68 | 3 440 | 3 699 | -0.52 | 0.79 | 50 990 | 53 836 | 0.72 | 0.79 |
| Canada | 33 403 | 37 844 | 2.29 | 1.06 | 174 | 136 | 11.11 | 1.08 | 24 721 | 28 036 | 2.90 | 0.78 |
| United States | 51 193 | 53 584 | -1.71 | 0.43 | 3 266 | 3 563 | -0.94 | 0.79 | 26 269 | 25 800 | -0.93 | 0.80 |
| LATIN AMERICA | 31 412 | 36 658 | 3.58 | 1.38 | 24 443 | 27 532 | 1.33 | 0.75 | 15 239 | 18 743 | 6.25 | 1.81 |
| Argentina | 18 803 | 22 426 | 8.01 | 1.43 | 3 | 3 | 0.00 | 0.00 | 12 973 | 15 839 | 15.29 | 1.93 |
| Brazil | 5 646 | 6 903 | 1.09 | 1.95 | 6 873 | 7 152 | -1.10 | 0.02 | 449 | 563 | -16.59 | 0.00 |
| Chile | 1 310 | 1 329 | -0.46 | 0.19 | 1 168 | 991 | 5.35 | -1.50 | 1 | 0 | .. | .. |
| Colombia | 4 | 6 | -18.28 | 2.76 | 1 895 | 2 317 | 3.83 | 1.34 | 15 | 18 | 22.92 | -1.32 |
| Mexico | 3 051 | 3 232 | -1.59 | 0.63 | 5 163 | 6 279 | 3.02 | 1.53 | 970 | 1 200 | 2.32 | 3.15 |
| Paraguay | 1 304 | 1 236 | -1.04 | 0.47 | 0 | 1 | -52.82 | 0.48 | 397 | 566 | -7.68 | 1.03 |
| Peru | 186 | 248 | -2.60 | 2.70 | 2 061 | 2 460 | 2.64 | 1.45 | 3 | 3 | -6.22 | -0.38 |
| EUROPE | 251 637 | 280 811 | 2.29 | 0.81 | 10 332 | 9 155 | -0.64 | -0.41 | 85 149 | 109 517 | 8.08 | 1.70 |
| European Union ¹ | 128 199 | 128 286 | 0.27 | 0.07 | 5 444 | 5 978 | -2.00 | 0.57 | 29 598 | 31 112 | 2.90 | 0.58 |
| United Kingdom | 13 323 | 16 878 | -1.25 | 1.27 | 2 259 | 869 | 4.66 | -4.44 | 598 | 1 188 | -12.56 | 4.22 |
| Russia | 76 530 | 91 103 | 6.98 | 1.19 | 243 | 358 | 28.13 | 3.31 | 35 927 | 48 161 | 14.09 | 1.43 |
| Ukraine | 26 011 | 35 858 | 3.63 | 2.43 | 15 | 15 | -12.88 | 0.36 | 17 679 | 27 247 | 13.95 | 3.38 |
| AFRICA | 27 141 | 30 445 | 0.42 | 0.79 | 49 182 | 63 617 | 2.22 | 2.26 | 1 578 | 1 274 | 1.83 | -1.39 |
| Egypt | 8 783 | 10 470 | -0.10 | 1.84 | 12 967 | 15 523 | 3.36 | 1.23 | 598 | 523 | 34.12 | -1.20 |
| Ethiopia | 5 068 | 5 654 | 5.80 | 1.01 | 1 350 | 2 578 | 5.66 | 6.91 | 0 | 0 | .. | .. |
| Nigeria | 65 | 71 | -7.50 | 1.02 | 4 733 | 6 060 | 1.89 | 2.20 | 600 | 475 | 3.73 | -2.15 |
| South Africa | 1 850 | 1 511 | -0.60 | -3.36 | 1 610 | 2 507 | 0.06 | 5.10 | 89 | 65 | -15.49 | 6.10 |
| ASIA | 336 190 | 372 583 | 1.11 | 0.92 | 90 177 | 112 456 | 3.92 | 1.42 | 15 409 | 18 223 | -2.73 | 1.62 |
| China ² | 133 096 | 133 534 | 1.31 | 0.26 | 4 951 | 9 636 | 6.02 | 1.80 | 306 | 210 | -2.91 | -0.69 |
| India | 103 687 | 121 843 | 1.84 | 1.26 | 2 | 1 | -4.22 | 0.05 | 657 | 1 032 | -19.62 | 0.05 |
| Indonesia | 0 | 0 | .. | .. | 10 889 | 13 317 | 6.95 | 1.84 | 78 | 71 | 3.51 | -1.81 |
| Iran | 14 333 | 14 737 | 6.95 | 0.50 | 1 189 | 3 083 | -16.26 | 2.67 | 67 | 49 | 8.80 | -0.29 |
| Japan | 946 | 885 | 2.42 | 0.25 | 5 434 | 5 447 | -2.01 | -0.28 | 0 | 0 | .. | .. |
| Kazakhstan | 13 218 | 16 735 | -1.60 | 1.81 | 633 | 78 | 188.17 | -2.51 | 7 460 | 9 633 | -1.21 | 2.57 |
| Korea | 23 | 29 | -3.88 | 0.57 | 3 838 | 5 599 | -2.85 | 2.52 | 50 | 55 | 0.00 | 0.80 |
| Malaysia | 0 | 0 | .. | .. | 1 685 | 2 031 | 2.39 | 1.07 | 148 | 133 | 8.10 | -1.06 |
| Pakistan | 24 895 | 29 996 | 0.33 | 1.70 | 945 | 2 283 | -14.75 | 1.96 | 365 | 49 | -20.19 | -0.88 |
| Philippines | 0 | 0 | .. | .. | 6 506 | 7 271 | 7.50 | 1.94 | 43 | 34 | 499.80 | -1.90 |
| Saudi Arabia | 429 | 283 | -17.30 | -2.15 | 3 150 | 3 963 | 2.51 | 1.31 | 0 | 0 | .. | .. |
| Thailand | 1 | 0 | -0.82 | .. | 3 145 | 3 816 | 4.01 | 1.28 | 15 | 13 | 5.21 | -1.26 |
| Turkey | 19 833 | 23 409 | -0.70 | 1.40 | 8 964 | 7 865 | 12.46 | -1.40 | 4 683 | 5 714 | 6.78 | 1.42 |
| Viet Nam | 0 | 0 | .. | .. | 3 263 | 4 160 | 7.17 | 2.19 | 48 | 40 | -13.97 | -2.14 |
| OCEANIA | 21 726 | 27 735 | -2.56 | 1.65 | 902 | 1 001 | 2.47 | 1.11 | 12 874 | 18 226 | -6.17 | 1.77 |
| Australia | 21 309 | 27 185 | -2.59 | 1.66 | 28 | 28 | 7.96 | -0.04 | 12 874 | 18 226 | -6.17 | 1.77 |
| New Zealand | 417 | 550 | -1.22 | 1.31 | 534 | 545 | 2.93 | 0.68 | 0 | 0 | .. | .. |
| DEVELOPED COUNTRIES | 384 878 | 432 294 | 1.10 | 0.89 | 30 844 | 31 975 | -0.09 | 0.49 | 157 110 | 191 771 | 3.04 | 1.48 |
| DEVELOPING COUNTRIES | 367 825 | 407 367 | 1.47 | 0.90 | 147 633 | 185 485 | 3.31 | 1.65 | 24 129 | 28 049 | 1.66 | 1.31 |
| LEAST DEVELOPED COUNTRIES (LDC) | 8 793 | 10 324 | 0.81 | 1.04 | 17 973 | 25 828 | 6.15 | 2.97 | 108 | 86 | -5.68 | -1.60 |
| OECD³ | 274 023 | 294 306 | -0.27 | 0.58 | 41 086 | 43 146 | 1.68 | 0.37 | 99 895 | 111 466 | 0.19 | 0.97 |
| BRICS | 320 809 | 354 893 | 2.62 | 0.84 | 13 679 | 19 654 | 1.72 | 1.44 | 37 429 | 50 030 | 7.86 | 1.37 |

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.13.2. Wheat projections: Consumption, food

Marketing year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | | FOOD (kt) | | Growth (%) ⁴ | | FOOD (kg/cap) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|--------------------|----------------|-------------------------|-------------|--------------------|-------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 748 656 | 835 099 | 1.17 | 0.97 | 518 905 | 576 819 | 1.28 | 0.91 | 67.6 | 67.8 | 0.14 | -0.01 |
| NORTH AMERICA | 39 497 | 41 022 | -1.21 | 0.42 | 29 176 | 30 482 | 0.34 | 0.38 | 79.6 | 78.1 | -0.36 | -0.19 |
| Canada | 8 834 | 9 886 | -0.01 | 1.38 | 3 030 | 3 288 | 1.40 | 0.69 | 81.0 | 80.5 | 0.41 | -0.10 |
| United States | 30 663 | 31 136 | -1.53 | 0.13 | 26 146 | 27 194 | 0.22 | 0.34 | 79.5 | 77.8 | -0.45 | -0.20 |
| LATIN AMERICA | 40 638 | 45 348 | 1.69 | 0.98 | 36 037 | 40 414 | 1.35 | 0.99 | 55.8 | 57.4 | 0.35 | 0.23 |
| Argentina | 5 917 | 6 580 | 1.36 | 0.93 | 5 316 | 5 972 | 1.12 | 1.01 | 118.7 | 121.7 | 0.12 | 0.20 |
| Brazil | 12 070 | 13 459 | 1.33 | 0.96 | 11 417 | 12 796 | 1.18 | 1.00 | 54.1 | 57.2 | 0.35 | 0.50 |
| Chile | 2 662 | 2 318 | 2.49 | -0.34 | 2 001 | 1 874 | 1.01 | -0.75 | 105.7 | 96.3 | -0.20 | -0.87 |
| Colombia | 1 938 | 2 302 | 3.81 | 1.44 | 1 773 | 2 137 | 3.19 | 1.38 | 35.2 | 40.0 | 1.91 | 0.92 |
| Mexico | 7 311 | 8 323 | 1.09 | 1.06 | 6 486 | 7 402 | 1.85 | 1.17 | 50.8 | 52.5 | 0.63 | 0.29 |
| Paraguay | 515 | 632 | 1.04 | 1.80 | 364 | 437 | 1.51 | 1.61 | 51.7 | 55.0 | 0.17 | 0.53 |
| Peru | 2 276 | 2 700 | 2.40 | 1.60 | 2 136 | 2 522 | 2.59 | 1.56 | 65.7 | 70.0 | 1.20 | 0.70 |
| EUROPE | 181 380 | 179 891 | 0.21 | 0.28 | 79 820 | 79 643 | 0.13 | -0.06 | 106.7 | 107.3 | -0.03 | 0.04 |
| European Union ¹ | 106 696 | 102 988 | -0.15 | -0.06 | 49 426 | 49 844 | 0.23 | 0.05 | 111.1 | 112.8 | 0.10 | 0.14 |
| United Kingdom | 14 815 | 16 215 | 0.63 | 0.36 | 6 281 | 6 823 | 0.04 | 0.55 | 93.0 | 96.8 | -0.61 | 0.19 |
| Russia | 42 624 | 43 270 | 2.48 | 1.16 | 14 682 | 14 004 | 0.31 | -0.47 | 100.7 | 97.7 | 0.13 | -0.27 |
| Ukraine | 8 795 | 8 623 | -5.04 | -0.08 | 4 692 | 4 273 | -1.14 | -0.88 | 106.7 | 104.5 | -0.67 | -0.20 |
| AFRICA | 76 115 | 92 371 | 2.21 | 1.86 | 65 423 | 80 996 | 2.52 | 1.92 | 50.5 | 48.4 | -0.07 | -0.39 |
| Egypt | 21 270 | 25 393 | 1.54 | 1.53 | 18 937 | 22 761 | 2.24 | 1.55 | 188.6 | 188.4 | 0.08 | -0.09 |
| Ethiopia | 6 451 | 8 199 | 5.38 | 2.54 | 5 384 | 7 109 | 5.31 | 2.58 | 48.0 | 49.0 | 2.50 | 0.25 |
| Nigeria | 4 205 | 5 648 | 1.43 | 2.67 | 4 012 | 5 421 | 2.71 | 2.74 | 20.0 | 20.6 | 0.05 | 0.27 |
| South Africa | 3 428 | 3 948 | 0.85 | 1.09 | 3 286 | 3 715 | 1.00 | 1.10 | 56.1 | 56.3 | -0.47 | 0.05 |
| ASIA | 401 470 | 466 028 | 1.61 | 1.14 | 305 603 | 341 989 | 1.43 | 0.95 | 66.8 | 69.1 | 0.46 | 0.27 |
| China ² | 128 314 | 143 730 | 0.50 | 0.59 | 93 233 | 96 474 | 0.65 | 0.20 | 65.0 | 65.9 | 0.15 | 0.04 |
| India | 101 698 | 120 126 | 2.59 | 1.26 | 82 428 | 93 498 | 1.48 | 1.10 | 60.3 | 62.2 | 0.38 | 0.25 |
| Indonesia | 10 877 | 13 217 | 7.16 | 1.92 | 6 877 | 8 569 | 2.35 | 1.97 | 25.4 | 28.6 | 1.11 | 1.07 |
| Iran | 15 750 | 17 653 | 1.95 | 1.08 | 13 983 | 15 952 | 1.37 | 1.14 | 168.7 | 172.1 | 0.04 | 0.18 |
| Japan | 6 398 | 6 336 | -1.02 | -0.18 | 5 241 | 5 076 | 0.03 | -0.30 | 41.3 | 42.0 | 0.21 | 0.18 |
| Kazakhstan | 6 269 | 7 099 | -1.66 | 1.26 | 2 645 | 2 929 | 1.19 | 0.87 | 142.6 | 141.9 | -0.27 | -0.05 |
| Korea | 3 777 | 5 565 | -3.30 | 2.41 | 2 443 | 2 526 | 0.62 | 0.30 | 47.7 | 49.4 | 0.30 | 0.33 |
| Malaysia | 1 554 | 1 891 | 3.19 | 1.32 | 1 114 | 1 370 | 3.11 | 1.23 | 34.9 | 38.0 | 1.73 | 0.15 |
| Pakistan | 26 309 | 32 185 | 1.52 | 1.75 | 25 498 | 31 038 | 2.04 | 1.73 | 117.7 | 118.0 | -0.05 | -0.01 |
| Philippines | 6 496 | 7 214 | 7.58 | 1.95 | 2 613 | 3 250 | 2.38 | 2.05 | 24.2 | 26.3 | 0.84 | 0.84 |
| Saudi Arabia | 3 647 | 4 194 | 0.54 | 1.24 | 3 360 | 3 860 | 2.27 | 1.21 | 98.1 | 98.2 | -0.06 | 0.02 |
| Thailand | 3 197 | 3 776 | 4.50 | 1.37 | 1 149 | 1 297 | 1.67 | 1.03 | 16.5 | 18.4 | 1.29 | 0.97 |
| Turkey | 23 006 | 25 405 | 0.97 | 0.82 | 17 611 | 19 154 | 1.69 | 0.57 | 211.2 | 214.8 | 0.10 | 0.06 |
| Viet Nam | 3 387 | 4 101 | 6.74 | 2.28 | 1 634 | 2 055 | 3.51 | 2.18 | 16.9 | 19.7 | 2.46 | 1.50 |
| OCEANIA | 9 556 | 10 438 | 3.00 | 0.83 | 2 847 | 3 295 | 1.50 | 1.33 | 69.0 | 70.1 | 0.04 | 0.16 |
| Australia | 8 268 | 8 926 | 3.42 | 0.76 | 2 107 | 2 399 | 1.51 | 1.17 | 83.6 | 85.2 | 0.13 | 0.18 |
| New Zealand | 952 | 1 093 | 0.27 | 0.98 | 420 | 495 | 1.28 | 1.50 | 87.9 | 95.6 | 0.30 | 0.80 |
| DEVELOPED COUNTRIES | 265 748 | 271 416 | 0.01 | 0.44 | 134 564 | 138 150 | 0.35 | 0.20 | 94.2 | 94.4 | -0.08 | 0.00 |
| DEVELOPING COUNTRIES | 482 909 | 563 682 | 1.86 | 1.24 | 384 341 | 438 669 | 1.63 | 1.14 | 61.6 | 62.3 | 0.31 | 0.07 |
| LEAST DEVELOPED COUNTRIES (LDC) | 27 492 | 35 882 | 4.30 | 2.43 | 23 444 | 30 952 | 4.09 | 2.59 | 27.0 | 28.0 | 1.70 | 0.40 |
| OECD³ | 219 146 | 224 983 | -0.05 | 0.32 | 125 212 | 130 849 | 0.61 | 0.34 | 90.1 | 91.1 | 0.05 | 0.07 |
| BRICS | 288 133 | 324 533 | 1.54 | 0.93 | 205 045 | 220 487 | 0.99 | 0.59 | 63.8 | 64.8 | 0.21 | 0.11 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.14.1. Maize projections: Production and trade

Marketing year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|------------------|-------------------------|-------------|--------------------|----------------|-------------------------|--------------|--------------------|----------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 1 151 427 | 1 312 195 | 2.58 | 1.12 | 175 725 | 204 238 | 7.08 | 1.21 | 178 789 | 207 303 | 6.89 | 1.19 |
| NORTH AMERICA | 370 448 | 403 226 | 1.97 | 0.59 | 3 054 | 3 503 | 3.52 | 1.33 | 55 329 | 61 794 | 7.33 | 0.01 |
| Canada | 13 617 | 14 379 | 1.38 | 1.37 | 2 116 | 2 460 | 14.56 | 1.85 | 1 198 | 1 372 | 3.61 | 3.53 |
| United States | 356 830 | 388 847 | 2.00 | 0.56 | 938 | 1 042 | -4.37 | 0.20 | 54 132 | 60 422 | 7.62 | -0.06 |
| LATIN AMERICA | 206 702 | 237 392 | 5.14 | 1.62 | 39 239 | 48 882 | 7.17 | 2.01 | 74 708 | 81 671 | 8.85 | 1.65 |
| Argentina | 58 585 | 65 577 | 11.06 | 1.57 | 4 | 4 | 1.62 | 0.00 | 35 557 | 35 653 | 14.81 | 0.71 |
| Brazil | 102 483 | 120 452 | 3.85 | 1.90 | 1 065 | 851 | 3.21 | 0.02 | 35 920 | 41 845 | 5.70 | 2.25 |
| Chile | 720 | 676 | -9.76 | 1.33 | 2 678 | 3 071 | 13.42 | 1.35 | 22 | 19 | -14.72 | -0.84 |
| Colombia | 1 493 | 1 745 | -2.61 | 1.37 | 5 834 | 7 906 | 8.48 | 2.63 | 1 | 1 | -5.45 | -0.20 |
| Mexico | 27 332 | 29 905 | 4.38 | 0.64 | 16 271 | 19 974 | 8.91 | 1.86 | 935 | 1 318 | 31.08 | 3.16 |
| Paraguay | 5 807 | 7 701 | 7.18 | 2.44 | 12 | 10 | -1.56 | -0.45 | 2 199 | 2 763 | -2.80 | 5.77 |
| Peru | 1 510 | 2 037 | -1.27 | 2.84 | 4 024 | 5 955 | 9.95 | 3.49 | 10 | 10 | 4.66 | -0.44 |
| EUROPE | 126 512 | 144 228 | 1.95 | 1.05 | 22 727 | 23 978 | 10.52 | 0.90 | 39 444 | 53 433 | 7.19 | 2.12 |
| European Union ¹ | 67 377 | 67 963 | -0.08 | 0.44 | 20 009 | 21 795 | 11.68 | 1.03 | 4 361 | 4 011 | 0.50 | 1.98 |
| United Kingdom | 0 | 0 | .. | .. | 1 736 | 1 433 | 6.16 | -0.44 | 0 | 0 | .. | .. |
| Russia | 13 234 | 18 811 | 10.07 | 2.63 | 37 | 102 | 1.16 | 4.82 | 3 693 | 7 746 | 8.75 | 4.36 |
| Ukraine | 33 988 | 44 009 | 4.20 | 1.54 | 38 | 39 | -2.23 | 0.32 | 27 997 | 36 903 | 8.03 | 1.82 |
| AFRICA | 88 084 | 111 093 | 3.05 | 1.96 | 24 250 | 33 220 | 5.84 | 2.70 | 4 378 | 5 927 | -0.99 | 2.48 |
| Egypt | 7 417 | 7 907 | -0.03 | 0.80 | 10 137 | 12 629 | 6.71 | 1.94 | 0 | 0 | .. | .. |
| Ethiopia | 9 443 | 12 276 | 5.75 | 2.79 | 0 | 0 | -82.04 | .. | 783 | 827 | 0.93 | 0.42 |
| Nigeria | 12 587 | 13 553 | 4.14 | 0.75 | 400 | 1 902 | 10.80 | 23.61 | 150 | 64 | 0.88 | -9.88 |
| South Africa | 14 739 | 19 841 | 2.59 | 1.90 | 170 | 0 | -70.64 | .. | 2 138 | 3 832 | 2.79 | 6.05 |
| ASIA | 359 236 | 415 652 | 2.08 | 1.20 | 86 317 | 94 594 | 6.91 | 0.43 | 4 889 | 4 411 | -2.77 | -1.69 |
| China ² | 259 539 | 294 690 | 1.87 | 1.01 | 10 702 | 7 202 | 12.37 | -5.38 | 22 | 19 | -10.92 | 10.74 |
| India | 28 284 | 35 035 | 3.40 | 1.77 | 192 | 33 | 44.89 | 0.47 | 1 134 | 1 168 | -18.58 | -2.83 |
| Indonesia | 22 739 | 27 459 | 2.53 | 1.70 | 996 | 1 155 | -13.65 | 2.93 | 13 | 15 | -6.55 | -0.26 |
| Iran | 1 238 | 1 254 | -5.67 | 0.42 | 9 328 | 9 761 | 12.69 | 0.67 | 0 | 0 | .. | .. |
| Japan | 0 | 0 | .. | .. | 15 797 | 15 853 | 0.81 | 0.08 | 0 | 0 | .. | .. |
| Kazakhstan | 905 | 1 145 | 7.94 | 1.67 | 5 | 4 | 137.21 | 1.20 | 67 | 151 | 23.68 | 5.38 |
| Korea | 74 | 65 | -0.92 | -1.15 | 10 706 | 11 520 | 3.20 | 0.37 | 0 | 0 | .. | .. |
| Malaysia | 85 | 107 | 2.32 | 2.14 | 3 860 | 4 993 | 3.36 | 2.14 | 9 | 8 | 6.94 | -2.09 |
| Pakistan | 6 670 | 8 621 | 5.89 | 2.17 | 25 | 57 | 14.87 | 9.46 | 40 | 8 | 66.87 | -11.30 |
| Philippines | 7 956 | 9 574 | 1.32 | 1.58 | 655 | 631 | 19.51 | 2.60 | 0 | 0 | .. | .. |
| Saudi Arabia | 87 | 66 | -0.69 | -2.54 | 4 076 | 5 357 | 9.89 | 2.26 | 0 | 0 | .. | .. |
| Thailand | 4 781 | 4 905 | -0.44 | 0.95 | 1 117 | 2 239 | 27.79 | 2.46 | 124 | 73 | -10.18 | -1.21 |
| Turkey | 5 910 | 7 538 | 3.03 | 1.49 | 3 748 | 3 730 | 16.98 | 1.00 | 567 | 469 | 43.58 | -0.98 |
| Viet Nam | 4 746 | 5 375 | -0.68 | 1.25 | 10 895 | 16 004 | 27.84 | 2.84 | 450 | 431 | 54.93 | -2.76 |
| OCEANIA | 445 | 605 | -5.93 | 1.03 | 139 | 63 | 53.54 | 0.22 | 42 | 67 | -11.14 | -0.95 |
| Australia | 245 | 372 | -8.73 | 0.78 | 0 | 0 | .. | .. | 39 | 63 | -11.19 | -1.00 |
| New Zealand | 190 | 220 | -1.67 | 1.43 | 137 | 62 | 70.39 | 0.31 | 3 | 4 | -9.81 | 0.00 |
| DEVELOPED COUNTRIES | 514 991 | 571 385 | 1.99 | 0.75 | 44 182 | 46 301 | 5.15 | 0.69 | 97 020 | 119 278 | 7.13 | 1.07 |
| DEVELOPING COUNTRIES | 636 435 | 740 811 | 3.11 | 1.42 | 131 543 | 157 938 | 7.79 | 1.36 | 81 769 | 88 025 | 7.11 | 1.35 |
| LEAST DEVELOPED COUNTRIES (LDC) | 43 891 | 56 695 | 3.66 | 2.15 | 3 332 | 4 274 | 11.45 | 1.74 | 3 495 | 3 021 | 4.29 | -1.78 |
| OECD³ | 474 016 | 511 970 | 1.73 | 0.59 | 82 246 | 91 759 | 6.37 | 1.09 | 61 301 | 67 724 | 7.02 | 0.16 |
| BRICS | 418 279 | 488 829 | 2.63 | 1.37 | 12 166 | 8 189 | 10.94 | -4.87 | 42 906 | 54 610 | 4.08 | 2.60 |

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.14.2. Maize projections: Consumption, feed, food

Marketing year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | | FEED (kt) | | Growth (%) ⁴ | | FOOD (kg/cap) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|------------------|-------------------------|-------------|--------------------|----------------|-------------------------|-------------|--------------------|-------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 1 166 255 | 1 305 125 | 3.23 | 1.10 | 671 024 | 787 208 | 3.78 | 1.36 | 18.9 | 20.0 | 0.82 | 0.59 |
| NORTH AMERICA | 323 190 | 344 380 | 1.53 | 0.75 | 136 930 | 163 326 | 1.46 | 1.28 | 17.6 | 17.3 | -0.59 | -0.20 |
| Canada | 14 575 | 15 430 | 2.65 | 1.15 | 9 082 | 9 440 | 4.24 | 1.42 | 31.2 | 28.1 | -3.77 | -0.78 |
| United States | 308 615 | 328 950 | 1.48 | 0.73 | 127 848 | 153 886 | 1.28 | 1.27 | 16.1 | 16.0 | -0.02 | -0.10 |
| LATIN AMERICA | 171 102 | 203 901 | 4.56 | 1.70 | 113 790 | 137 222 | 5.18 | 1.82 | 50.5 | 51.9 | 0.16 | 0.34 |
| Argentina | 22 751 | 29 812 | 8.11 | 2.69 | 16 850 | 23 101 | 10.57 | 3.13 | 36.3 | 37.3 | 1.60 | 0.20 |
| Brazil | 67 145 | 79 101 | 3.31 | 1.62 | 46 506 | 53 884 | 2.37 | 1.50 | 24.6 | 25.0 | 0.32 | 0.13 |
| Chile | 3 431 | 3 720 | 4.34 | 1.47 | 2 961 | 3 228 | 5.17 | 1.64 | 20.6 | 20.8 | -0.09 | 0.15 |
| Colombia | 7 360 | 9 639 | 5.26 | 2.43 | 6 372 | 8 538 | 5.76 | 2.68 | 18.2 | 18.5 | 0.97 | 0.15 |
| Mexico | 42 868 | 48 483 | 5.53 | 1.07 | 23 999 | 27 095 | 9.80 | 1.00 | 136.0 | 141.1 | 0.10 | 0.36 |
| Paraguay | 3 755 | 4 859 | 16.66 | 1.82 | 907 | 1 243 | 10.56 | 2.93 | 54.2 | 55.0 | -0.51 | 0.15 |
| Peru | 5 566 | 7 973 | 5.99 | 3.35 | 4 843 | 7 191 | 6.57 | 3.65 | 16.2 | 16.5 | 1.87 | 0.15 |
| EUROPE | 109 649 | 114 518 | 1.79 | 0.63 | 87 283 | 91 169 | 2.06 | 0.54 | 8.4 | 8.6 | 0.11 | 0.27 |
| European Union ¹ | 83 394 | 85 527 | 1.71 | 0.52 | 66 491 | 68 433 | 1.95 | 0.41 | 10.6 | 10.9 | 0.09 | 0.31 |
| United Kingdom | 1 821 | 1 495 | 8.70 | -0.04 | 1 249 | 948 | 12.86 | 0.21 | 4.8 | 4.6 | 1.55 | -0.36 |
| Russia | 9 377 | 11 152 | 12.40 | 1.55 | 7 645 | 9 216 | 16.61 | 1.56 | 1.4 | 1.5 | 3.17 | 0.94 |
| Ukraine | 6 709 | 7 134 | -2.86 | 0.44 | 4 982 | 5 185 | -3.06 | 0.24 | 10.7 | 11.2 | -0.35 | 0.40 |
| AFRICA | 107 270 | 137 649 | 3.87 | 2.22 | 36 108 | 46 572 | 4.27 | 2.23 | 43.9 | 44.1 | 0.71 | 0.18 |
| Egypt | 17 503 | 20 500 | 3.43 | 1.51 | 12 703 | 15 184 | 4.04 | 1.72 | 41.8 | 38.8 | -0.51 | -0.63 |
| Ethiopia | 8 410 | 11 380 | 6.19 | 3.11 | 1 617 | 2 225 | 10.81 | 3.69 | 48.1 | 52.3 | 1.85 | 0.99 |
| Nigeria | 12 604 | 15 323 | 4.54 | 2.18 | 2 000 | 2 016 | 6.79 | -0.10 | 40.1 | 41.2 | 1.92 | 0.40 |
| South Africa | 12 620 | 15 934 | 2.33 | 1.42 | 5 357 | 6 788 | 0.55 | 2.46 | 89.0 | 84.5 | -0.14 | -0.48 |
| ASIA | 454 502 | 504 077 | 4.31 | 0.93 | 296 531 | 348 493 | 4.99 | 1.33 | 9.4 | 9.5 | 0.51 | 0.06 |
| China ² | 284 445 | 300 490 | 4.31 | 0.51 | 179 000 | 203 402 | 4.43 | 0.96 | 10.0 | 9.9 | 0.81 | 0.01 |
| India | 27 400 | 33 841 | 5.92 | 2.01 | 13 430 | 18 037 | 7.88 | 3.01 | 6.2 | 6.4 | -0.02 | 0.01 |
| Indonesia | 23 803 | 28 551 | 1.22 | 1.80 | 12 291 | 16 104 | 8.76 | 2.46 | 29.4 | 29.9 | 0.17 | 0.15 |
| Iran | 10 257 | 10 990 | 8.16 | 0.79 | 10 032 | 10 746 | 8.38 | 0.80 | 0.9 | 0.9 | -1.32 | 0.03 |
| Japan | 15 671 | 15 866 | 0.79 | -0.02 | 12 042 | 11 935 | 1.24 | -0.01 | 0.8 | 0.9 | 0.31 | 0.48 |
| Kazakhstan | 803 | 992 | 6.88 | 1.68 | 693 | 860 | 6.77 | 1.73 | 0.5 | 0.6 | -1.44 | 0.98 |
| Korea | 10 970 | 11 582 | 3.29 | 0.33 | 8 767 | 9 383 | 4.07 | 0.41 | 2.0 | 2.0 | 1.13 | 0.02 |
| Malaysia | 3 940 | 5 086 | 3.06 | 2.19 | 3 676 | 4 798 | 2.82 | 2.28 | 2.0 | 1.9 | 3.07 | -0.27 |
| Pakistan | 6 638 | 8 637 | 6.81 | 2.27 | 3 849 | 5 282 | 11.42 | 2.79 | 7.9 | 8.1 | 1.44 | 0.48 |
| Philippines | 8 600 | 10 181 | 2.13 | 1.70 | 5 666 | 6 689 | 1.42 | 1.97 | 18.8 | 18.6 | 1.00 | -0.04 |
| Saudi Arabia | 4 130 | 5 413 | 9.56 | 2.25 | 3 924 | 5 173 | 9.26 | 2.30 | 0.2 | 0.2 | -2.28 | -0.99 |
| Thailand | 5 708 | 7 058 | 2.82 | 1.51 | 5 353 | 6 696 | 3.19 | 1.56 | 1.2 | 1.3 | -0.37 | 0.60 |
| Turkey | 8 925 | 10 753 | 6.00 | 1.66 | 7 004 | 8 701 | 7.87 | 1.93 | 15.8 | 16.3 | -0.12 | 0.40 |
| Viet Nam | 15 450 | 20 931 | 12.00 | 2.58 | 11 821 | 16 830 | 11.02 | 2.98 | 8.1 | 7.5 | 3.56 | -0.29 |
| OCEANIA | 543 | 601 | -1.81 | 1.18 | 383 | 425 | 0.06 | 1.73 | 2.3 | 2.0 | -0.93 | -1.20 |
| Australia | 206 | 309 | -8.14 | 1.18 | 70 | 159 | -14.40 | 2.59 | 3.1 | 2.7 | -0.92 | -1.23 |
| New Zealand | 324 | 278 | 4.68 | 1.19 | 310 | 263 | 4.83 | 1.24 | 1.5 | 1.5 | -0.97 | 0.07 |
| DEVELOPED COUNTRIES | 466 424 | 497 451 | 1.61 | 0.73 | 246 218 | 279 201 | 1.69 | 1.02 | 12.8 | 13.0 | 0.09 | 0.16 |
| DEVELOPING COUNTRIES | 699 831 | 807 674 | 4.43 | 1.33 | 424 807 | 508 006 | 5.17 | 1.55 | 20.3 | 21.5 | 0.87 | 0.59 |
| LEAST DEVELOPED COUNTRIES (LDC) | 44 077 | 57 662 | 4.14 | 2.47 | 10 749 | 14 855 | 7.40 | 2.68 | 29.1 | 30.0 | 0.50 | 0.62 |
| OECD³ | 500 582 | 535 147 | 2.03 | 0.76 | 268 465 | 304 956 | 2.54 | 1.03 | 22.9 | 24.4 | 0.36 | 0.58 |
| BRICS | 400 987 | 440 519 | 4.26 | 0.87 | 251 938 | 291 327 | 4.23 | 1.23 | 10.4 | 10.4 | 0.46 | 0.01 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.15.1. Other coarse grain projections: Production and trade

Marketing year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|--------------------|---------------|-------------------------|-------------|--------------------|---------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 301 018 | 329 918 | 1.06 | 0.85 | 36 893 | 47 009 | 1.89 | 1.73 | 42 920 | 53 036 | 2.22 | 1.51 |
| NORTH AMERICA | 28 001 | 28 256 | 2.14 | 0.12 | 1 534 | 1 798 | -3.23 | 0.72 | 9 528 | 9 804 | 3.16 | 0.42 |
| Canada | 14 476 | 14 446 | 2.83 | 0.34 | 68 | 75 | 8.24 | 0.16 | 5 983 | 5 775 | 3.95 | 0.74 |
| United States | 13 525 | 13 810 | 1.57 | -0.11 | 1 466 | 1 723 | -3.52 | 0.74 | 3 545 | 4 029 | 3.36 | -0.01 |
| LATIN AMERICA | 19 772 | 21 955 | -1.87 | 0.87 | 1 728 | 1 973 | -10.40 | 1.42 | 3 192 | 3 317 | -7.26 | 0.87 |
| Argentina | 6 911 | 7 493 | -3.85 | 1.02 | 1 | 1 | 0.00 | 0.00 | 3 052 | 3 148 | -7.46 | 1.01 |
| Brazil | 3 661 | 4 208 | 3.77 | 1.46 | 604 | 751 | 5.35 | 2.25 | 3 | 3 | -13.88 | -0.25 |
| Chile | 804 | 853 | 1.55 | 0.10 | 73 | 103 | -24.63 | 10.35 | 29 | 18 | -16.24 | -7.02 |
| Colombia | 22 | 26 | -12.70 | 1.85 | 342 | 360 | -10.49 | 0.66 | 0 | 0 | .. | .. |
| Mexico | 5 689 | 6 249 | -3.90 | 0.44 | 407 | 442 | -16.30 | 0.09 | 2 | 2 | 32.31 | -0.79 |
| Paraguay | 108 | 122 | -1.89 | 1.27 | 0 | 0 | .. | .. | 5 | 0 | -3.30 | .. |
| Peru | 259 | 318 | -0.05 | 1.89 | 169 | 180 | 5.42 | 0.41 | 0 | 0 | .. | .. |
| EUROPE | 132 742 | 137 090 | 0.65 | 0.53 | 2 627 | 2 797 | 1.91 | 1.72 | 21 220 | 26 869 | 5.71 | 1.99 |
| European Union ¹ | 83 551 | 82 140 | 0.72 | 0.29 | 1 778 | 1 788 | 6.04 | 3.86 | 10 073 | 12 279 | 3.56 | 1.67 |
| United Kingdom | 8 314 | 7 902 | 2.79 | -0.22 | 168 | 298 | -4.84 | 2.44 | 1 514 | 1 616 | 9.29 | -1.22 |
| Russia | 25 922 | 29 448 | 1.27 | 0.83 | 48 | 58 | -23.31 | 0.31 | 5 062 | 6 484 | 8.45 | 2.18 |
| Ukraine | 9 599 | 11 662 | -0.61 | 1.87 | 17 | 17 | -7.57 | 0.18 | 4 429 | 6 408 | 6.95 | 3.47 |
| AFRICA | 57 821 | 69 622 | 3.30 | 1.79 | 4 290 | 6 913 | 5.95 | 4.91 | 1 288 | 2 431 | -1.86 | 4.74 |
| Egypt | 1 038 | 1 187 | 0.44 | 1.82 | 95 | 126 | -2.05 | -1.15 | 0 | 0 | .. | .. |
| Ethiopia | 13 896 | 19 970 | 4.42 | 3.31 | 0 | 0 | -79.27 | .. | 495 | 2 025 | 5.06 | 12.58 |
| Nigeria | 8 646 | 9 612 | 2.55 | 1.01 | 20 | 21 | 0.00 | 1.95 | 100 | 92 | 0.00 | -4.19 |
| South Africa | 625 | 648 | 2.43 | -0.75 | 144 | 378 | 1.46 | 3.14 | 7 | 9 | -15.74 | -0.57 |
| ASIA | 49 981 | 58 438 | 0.56 | 0.88 | 26 605 | 33 388 | 3.33 | 1.24 | 1 728 | 2 213 | 5.11 | 0.87 |
| China ² | 9 054 | 9 586 | 0.17 | 0.42 | 9 831 | 14 247 | 13.86 | 0.83 | 85 | 93 | -3.82 | 2.45 |
| India | 17 470 | 20 566 | -1.56 | 1.11 | 189 | 158 | 98.98 | -5.66 | 151 | 248 | -15.61 | 4.92 |
| Indonesia | 0 | 0 | .. | .. | 73 | 87 | -5.91 | 1.67 | 0 | 0 | .. | .. |
| Iran | 2 948 | 3 431 | 1.43 | 1.66 | 3 116 | 2 955 | 14.82 | -0.25 | 0 | 0 | .. | .. |
| Japan | 237 | 229 | 1.49 | -0.36 | 2 183 | 1 970 | -4.61 | -1.17 | 0 | 0 | .. | .. |
| Kazakhstan | 4 229 | 5 015 | 7.69 | 0.92 | 39 | 31 | 16.20 | 2.03 | 1 399 | 1 776 | 17.50 | 0.49 |
| Korea | 117 | 118 | 4.92 | 0.15 | 112 | 123 | -0.17 | 0.85 | 0 | 0 | .. | .. |
| Malaysia | 0 | 0 | .. | .. | 13 | 16 | 234.31 | 2.06 | 0 | 0 | .. | .. |
| Pakistan | 520 | 593 | 0.60 | 1.20 | 134 | 192 | 28.36 | 5.20 | 0 | 0 | .. | .. |
| Philippines | 1 | 1 | 0.19 | 1.66 | 41 | 47 | 1.40 | 1.92 | 0 | 0 | .. | .. |
| Saudi Arabia | 182 | 131 | 3.93 | -2.57 | 6 699 | 8 985 | -3.52 | 2.24 | 0 | 0 | .. | .. |
| Thailand | 183 | 121 | 0.48 | -1.21 | 569 | 1 114 | 54.63 | 1.50 | 2 | 2 | 0.07 | -0.26 |
| Turkey | 8 364 | 9 679 | 0.54 | 0.61 | 621 | 1 212 | 23.26 | 10.76 | 85 | 87 | 19.00 | -1.81 |
| Viet Nam | 3 | 4 | 9.89 | 1.93 | 100 | 115 | 5.67 | 1.25 | 0 | 0 | .. | .. |
| OCEANIA | 12 703 | 14 558 | 0.96 | 0.85 | 109 | 141 | 2.18 | 2.82 | 5 965 | 8 402 | -0.78 | 1.01 |
| Australia | 12 286 | 14 102 | 1.05 | 0.85 | 0 | 0 | .. | .. | 5 964 | 8 401 | -0.78 | 1.01 |
| New Zealand | 413 | 455 | -1.63 | 1.06 | 24 | 31 | 1.03 | 2.98 | 0 | 0 | .. | .. |
| DEVELOPED COUNTRIES | 180 999 | 188 794 | 1.09 | 0.51 | 7 133 | 7 661 | -1.70 | 0.77 | 38 118 | 46 859 | 3.96 | 1.41 |
| DEVELOPING COUNTRIES | 120 020 | 141 124 | 1.00 | 1.31 | 29 760 | 39 348 | 2.92 | 1.92 | 4 802 | 6 177 | -6.39 | 2.36 |
| LEAST DEVELOPED COUNTRIES (LDC) | 28 101 | 32 072 | 3.91 | 1.32 | 677 | 1 616 | 0.95 | 14.11 | 666 | 286 | -5.20 | -11.16 |
| OECD³ | 148 839 | 151 009 | 0.87 | 0.30 | 7 943 | 8 963 | -3.93 | 1.92 | 27 198 | 32 211 | 2.49 | 0.93 |
| BRICS | 56 732 | 64 456 | 0.31 | 0.88 | 10 816 | 15 592 | 11.52 | 0.84 | 5 307 | 6 836 | 6.00 | 2.27 |

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.15.2. Other coarse grain projections: Consumption, feed, food

Marketing year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | | FEED (kt) | | Growth (%) ⁴ | | FOOD (kg/cap) | | Growth (%) ⁴ | |
|--|--------------------|----------------|-------------------------|-------------|--------------------|----------------|-------------------------|-------------|--------------------|-------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 287 761 | 323 088 | 0.61 | 0.83 | 157 435 | 178 462 | 0.35 | 0.81 | 10.5 | 11.0 | -0.01 | 0.40 |
| NORTH AMERICA | 20 098 | 20 230 | 1.18 | 0.10 | 13 685 | 13 923 | 2.37 | 0.16 | 4.4 | 4.4 | 0.70 | -0.20 |
| Canada | 8 649 | 8 734 | 2.08 | 0.20 | 7 786 | 8 107 | 1.84 | 0.22 | 8.1 | 7.6 | -0.23 | -0.85 |
| United States | 11 449 | 11 495 | 0.50 | 0.02 | 5 899 | 5 816 | 3.12 | 0.08 | 4.0 | 4.1 | 0.91 | -0.07 |
| LATIN AMERICA | 18 204 | 20 583 | -1.93 | 0.89 | 12 158 | 13 685 | -3.76 | 0.76 | 3.5 | 3.6 | -1.45 | 0.22 |
| Argentina | 3 839 | 4 334 | 0.87 | 0.96 | 2 273 | 2 610 | 0.30 | 0.96 | 14.5 | 13.7 | -4.11 | -0.45 |
| Brazil | 4 263 | 4 952 | 4.21 | 1.57 | 2 733 | 3 009 | 3.99 | 1.10 | 1.8 | 2.1 | 1.66 | 2.02 |
| Chile | 853 | 938 | -3.84 | 1.08 | 517 | 574 | -7.31 | 1.33 | 3.9 | 4.3 | 1.87 | 0.99 |
| Colombia | 365 | 385 | -10.67 | 0.75 | 35 | 29 | -35.19 | 2.76 | 0.5 | 0.4 | -11.83 | -1.05 |
| Mexico | 5 993 | 6 681 | -6.33 | 0.36 | 5 264 | 5 885 | -7.11 | 0.30 | 5.7 | 5.6 | 0.97 | -0.13 |
| Paraguay | 102 | 122 | -1.87 | 1.36 | 88 | 100 | -3.04 | 1.22 | 0.0 | 0.0 | -2.27 | -1.24 |
| Peru | 429 | 497 | 1.75 | 1.34 | 25 | 35 | -0.51 | 3.50 | 6.6 | 7.4 | 0.73 | 0.74 |
| EUROPE | 110 647 | 112 998 | -0.45 | 0.07 | 80 080 | 82 575 | -0.31 | 0.33 | 13.7 | 13.4 | -1.03 | -0.14 |
| European Union ¹ | 71 099 | 71 719 | -0.27 | -0.11 | 53 362 | 54 480 | -0.27 | 0.25 | 10.3 | 10.5 | -0.36 | 0.16 |
| United Kingdom | 6 970 | 6 590 | 1.83 | 0.11 | 3 428 | 2 932 | 2.83 | -0.55 | 35.4 | 35.0 | -0.17 | -0.06 |
| Russia | 21 218 | 22 952 | -0.13 | 0.45 | 15 091 | 16 656 | 0.50 | 0.66 | 12.4 | 10.7 | -3.44 | -1.30 |
| Ukraine | 5 117 | 5 258 | -4.82 | 0.31 | 3 396 | 3 459 | -5.26 | 0.29 | 16.9 | 15.9 | -2.64 | -0.56 |
| AFRICA | 59 627 | 73 619 | 2.82 | 2.02 | 8 854 | 11 213 | 2.90 | 2.46 | 32.8 | 31.7 | 0.20 | -0.18 |
| Egypt | 1 133 | 1 311 | 0.77 | 1.47 | 778 | 921 | 1.06 | 1.68 | 2.9 | 2.7 | -1.93 | -0.63 |
| Ethiopia | 13 191 | 17 750 | 4.33 | 2.74 | 593 | 861 | 2.15 | 4.13 | 93.4 | 98.7 | 1.25 | 0.50 |
| Nigeria | 8 549 | 9 535 | 0.82 | 1.11 | 273 | 283 | -5.80 | 0.09 | 38.9 | 33.1 | -1.18 | -1.30 |
| South Africa | 777 | 1 014 | 3.56 | 0.72 | 106 | 134 | -2.70 | 2.12 | 2.6 | 2.3 | -1.35 | -0.98 |
| ASIA | 73 625 | 89 396 | 1.31 | 1.07 | 38 988 | 52 643 | 2.57 | 1.46 | 5.2 | 5.3 | -1.37 | -0.16 |
| China ² | 18 838 | 23 761 | 5.41 | 0.65 | 7 728 | 13 423 | 19.46 | 1.08 | 3.2 | 3.0 | -0.03 | -0.62 |
| India | 17 544 | 20 475 | -1.13 | 1.00 | 913 | 1 649 | 2.11 | 3.82 | 11.8 | 12.1 | -1.87 | -0.11 |
| Indonesia | 73 | 87 | -5.91 | 1.67 | 0 | 0 | 0.00 | 0.00 | 0.3 | 0.3 | -7.07 | 0.78 |
| Iran | 5 798 | 6 366 | 6.20 | 0.78 | 5 621 | 6 180 | 6.45 | 0.79 | 0.3 | 0.3 | -1.32 | -0.92 |
| Japan | 2 406 | 2 211 | -4.67 | -1.17 | 1 449 | 1 414 | -8.72 | -0.51 | 4.0 | 4.2 | 1.70 | 0.40 |
| Kazakhstan | 2 747 | 3 259 | 4.68 | 1.33 | 1 715 | 1 987 | 3.44 | 1.52 | 2.5 | 2.2 | -1.44 | -1.02 |
| Korea | 230 | 241 | 2.12 | 0.50 | 59 | 59 | 0.14 | 0.20 | 3.3 | 3.6 | 2.58 | 0.63 |
| Malaysia | 13 | 16 | 217.37 | 2.16 | 12 | 15 | 256.56 | 2.20 | 0.0 | 0.0 | 170.73 | 1.00 |
| Pakistan | 654 | 786 | 3.12 | 2.05 | 198 | 264 | 0.18 | 3.50 | 1.9 | 1.8 | 3.03 | -0.28 |
| Philippines | 42 | 48 | 1.36 | 1.91 | 30 | 33 | -0.33 | 1.90 | 0.0 | 0.1 | 1.60 | 1.20 |
| Saudi Arabia | 7 248 | 9 071 | -1.54 | 2.18 | 7 052 | 8 865 | -1.58 | 2.23 | 2.6 | 2.3 | -2.28 | -0.99 |
| Thailand | 741 | 1 233 | 19.76 | 1.21 | 292 | 641 | 22.35 | 1.58 | 1.4 | 1.6 | -0.38 | 0.99 |
| Turkey | 8 630 | 10 749 | 0.71 | 1.55 | 7 577 | 9 607 | 0.91 | 1.67 | 3.5 | 3.2 | -1.56 | -0.91 |
| Viet Nam | 103 | 119 | 5.77 | 1.27 | 0 | 0 | 0.00 | 0.00 | 0.0 | 0.0 | 4.34 | 1.20 |
| OCEANIA | 5 560 | 6 262 | -0.34 | 0.53 | 3 670 | 4 423 | -1.76 | 0.95 | 6.3 | 6.7 | -1.92 | 0.20 |
| Australia | 5 035 | 5 668 | -0.29 | 0.44 | 3 272 | 3 977 | -1.79 | 0.90 | 7.3 | 7.7 | -2.73 | -0.14 |
| New Zealand | 437 | 485 | -1.51 | 1.18 | 379 | 427 | -1.74 | 1.35 | 1.7 | 1.5 | -0.97 | -0.68 |
| DEVELOPED COUNTRIES | 144 983 | 149 448 | -0.14 | 0.15 | 103 133 | 107 584 | -0.06 | 0.40 | 9.0 | 8.7 | -0.92 | -0.33 |
| DEVELOPING COUNTRIES | 142 778 | 173 640 | 1.43 | 1.45 | 54 303 | 70 878 | 1.20 | 1.47 | 10.9 | 11.5 | 0.16 | 0.50 |
| LEAST DEVELOPED COUNTRIES (LDC) | 27 216 | 33 171 | 3.02 | 1.95 | 1 617 | 1 819 | 5.71 | 1.78 | 24.3 | 23.9 | 0.66 | 0.05 |
| OECD³ | 123 865 | 127 730 | -0.44 | 0.12 | 90 504 | 94 911 | -0.65 | 0.38 | 7.7 | 7.7 | -0.15 | -0.04 |
| BRICS | 62 639 | 73 156 | 1.21 | 0.74 | 26 572 | 34 871 | 3.81 | 0.99 | 7.2 | 7.3 | -1.49 | -0.09 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.16.1. Rice projections: Production and trade

Marketing year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|--------------|--------------------|---------------|-------------------------|-------------|--------------------|---------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 509 290 | 567 270 | 0.69 | 0.87 | 45 333 | 62 261 | 2.37 | 2.61 | 45 906 | 62 261 | 1.51 | 2.61 |
| NORTH AMERICA | 6 549 | 6 711 | 0.65 | 0.85 | 1 468 | 1 955 | 5.00 | 2.08 | 2 965 | 3 122 | -1.03 | 0.68 |
| Canada | 0 | 0 | .. | .. | 390 | 469 | 0.89 | 1.76 | 0 | 0 | .. | .. |
| United States | 6 549 | 6 711 | 0.65 | 0.85 | 1 079 | 1 486 | 6.89 | 2.19 | 2 965 | 3 122 | -1.03 | 0.68 |
| LATIN AMERICA | 18 618 | 20 080 | -0.02 | 0.63 | 4 537 | 5 037 | 3.13 | 0.29 | 3 834 | 3 913 | 1.07 | 0.17 |
| Argentina | 852 | 889 | -3.93 | 0.26 | 7 | 7 | 1.25 | 0.00 | 398 | 241 | -5.79 | -3.17 |
| Brazil | 7 646 | 7 307 | -1.50 | -0.37 | 713 | 920 | 2.49 | 0.65 | 1 086 | 995 | -0.76 | -1.46 |
| Chile | 122 | 134 | 3.44 | 0.72 | 172 | 191 | 6.11 | 0.38 | 2 | 1 | 54.01 | -0.12 |
| Colombia | 1 857 | 2 081 | 5.08 | 0.37 | 178 | 249 | -2.27 | 1.88 | 3 | 5 | 105.84 | -0.15 |
| Mexico | 308 | 226 | 7.87 | -2.93 | 740 | 947 | 2.15 | 2.20 | 83 | 63 | 85.30 | 0.00 |
| Paraguay | 737 | 1 069 | 11.97 | 2.46 | 1 | 1 | 0.31 | 0.01 | 712 | 991 | 15.06 | 2.64 |
| Peru | 2 279 | 2 558 | 2.04 | 1.29 | 293 | 371 | 5.75 | -0.33 | 84 | 89 | 57.42 | 0.25 |
| EUROPE | 2 830 | 2 935 | -0.41 | 0.42 | 2 678 | 3 056 | 3.16 | 1.23 | 707 | 1 052 | 1.07 | 3.33 |
| European Union ¹ | 1 684 | 1 645 | -0.65 | -0.26 | 1 444 | 1 764 | 5.33 | 1.97 | 445 | 655 | 2.55 | 3.57 |
| United Kingdom | 0 | 0 | .. | .. | 675 | 684 | 0.38 | 0.12 | 42 | 23 | 1.39 | -5.00 |
| Russia | 1 093 | 1 230 | 0.80 | 1.36 | 224 | 238 | 1.24 | 0.41 | 209 | 370 | -0.93 | 3.84 |
| Ukraine | 40 | 45 | -11.50 | 1.20 | 94 | 108 | 6.94 | 0.82 | 4 | 2 | -17.73 | -0.81 |
| AFRICA | 24 269 | 28 444 | 3.70 | 1.01 | 16 491 | 31 226 | 2.55 | 5.77 | 455 | 228 | -3.91 | -4.29 |
| Egypt | 3 965 | 4 701 | -1.13 | 0.84 | 427 | 882 | 18.90 | 8.15 | 10 | 0 | -77.68 | .. |
| Ethiopia | 113 | 157 | 7.72 | 2.82 | 633 | 1 168 | 25.15 | 4.89 | 0 | 0 | .. | .. |
| Nigeria | 5 002 | 6 430 | 6.62 | 2.20 | 2 210 | 4 701 | -5.10 | 6.21 | 0 | 0 | .. | .. |
| South Africa | 2 | 2 | 0.00 | -2.97 | 924 | 1 171 | -0.61 | 1.98 | 0 | 0 | .. | .. |
| ASIA | 456 845 | 508 621 | 0.61 | 0.87 | 19 432 | 20 135 | 1.62 | -0.21 | 37 806 | 53 849 | 2.06 | 2.96 |
| China ² | 145 731 | 151 599 | 0.53 | 0.22 | 2 855 | 3 066 | 11.36 | 0.53 | 2 379 | 2 850 | 27.83 | 2.08 |
| India | 119 450 | 139 249 | 1.80 | 1.25 | 5 | 1 | 15.47 | 0.22 | 12 702 | 17 566 | 2.87 | 1.21 |
| Indonesia | 36 057 | 36 733 | -0.47 | 0.21 | 1 051 | 51 | -12.75 | -33.50 | 1 | 0 | -0.12 | .. |
| Iran | 2 457 | 2 908 | 8.36 | 1.69 | 1 145 | 976 | -4.29 | -0.41 | 2 | 1 | 2.24 | 0.03 |
| Japan | 7 407 | 6 463 | -0.77 | -1.60 | 763 | 776 | -0.68 | 0.06 | 113 | 161 | -1.24 | 1.27 |
| Kazakhstan | 356 | 433 | 6.30 | 1.59 | 12 | 9 | -9.63 | -0.88 | 101 | 102 | 9.85 | 0.89 |
| Korea | 3 915 | 3 653 | -0.84 | -1.00 | 402 | 429 | -0.68 | -0.14 | 52 | 50 | 61.24 | 0.40 |
| Malaysia | 1 565 | 1 699 | -1.20 | 0.74 | 1 145 | 1 526 | 1.57 | 1.51 | 34 | 53 | 40.53 | -0.61 |
| Pakistan | 7 598 | 9 442 | 3.13 | 0.79 | 6 | 4 | -31.43 | 0.16 | 4 275 | 5 068 | 2.42 | 0.03 |
| Philippines | 12 481 | 14 738 | 1.04 | 1.56 | 2 732 | 3 549 | 10.68 | 1.08 | 0 | 0 | -15.92 | .. |
| Saudi Arabia | 0 | 0 | .. | .. | 1 313 | 1 521 | 0.97 | 1.32 | 0 | 0 | .. | .. |
| Thailand | 19 858 | 22 372 | -2.86 | 1.20 | 310 | 357 | -5.52 | 7.66 | 7 274 | 8 946 | -0.90 | 2.68 |
| Turkey | 584 | 703 | 1.29 | 0.82 | 235 | 297 | 1.42 | 2.64 | 23 | 28 | -7.60 | -2.01 |
| Viet Nam | 28 221 | 32 824 | -0.10 | 1.69 | 532 | 737 | 0.26 | 4.03 | 6 854 | 9 121 | -2.42 | 4.44 |
| OCEANIA | 178 | 480 | -21.14 | 2.03 | 725 | 853 | 6.55 | 0.69 | 139 | 97 | -19.72 | 2.53 |
| Australia | 167 | 465 | -22.14 | 2.03 | 221 | 216 | 6.12 | -2.04 | 138 | 97 | -19.76 | 2.54 |
| New Zealand | 0 | 0 | .. | .. | 55 | 63 | 4.02 | 1.50 | 0 | 0 | .. | .. |
| DEVELOPED COUNTRIES | 17 687 | 17 485 | -0.54 | -0.14 | 6 458 | 7 583 | 2.44 | 1.23 | 4 025 | 4 534 | -1.79 | 1.30 |
| DEVELOPING COUNTRIES | 491 603 | 549 785 | 0.74 | 0.90 | 38 874 | 54 678 | 2.35 | 2.81 | 41 881 | 57 727 | 1.88 | 2.72 |
| LEAST DEVELOPED COUNTRIES (LDC) | 77 690 | 92 843 | 1.13 | 1.46 | 9 830 | 18 068 | 4.79 | 5.79 | 4 287 | 9 832 | 7.29 | 8.01 |
| OECD³ | 22 593 | 22 080 | -0.23 | -0.38 | 6 625 | 7 889 | 2.53 | 1.34 | 3 870 | 4 205 | -1.59 | 1.06 |
| BRICS | 273 921 | 299 387 | 1.00 | 0.68 | 4 721 | 5 395 | 5.63 | 0.84 | 16 376 | 21 780 | 4.17 | 1.22 |

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.16.2. Rice projections: Consumption, food

Marketing year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | | FOOD (kg/cap) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|--------------------|-------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 506 290 | 566 985 | 1.12 | 0.87 | 54.4 | 55.0 | 0.00 | -0.07 |
| NORTH AMERICA | 4 957 | 5 529 | 2.75 | 1.01 | 13.5 | 14.2 | 2.03 | 0.44 |
| Canada | 390 | 469 | 0.89 | 1.76 | 10.4 | 11.5 | -0.10 | 0.97 |
| United States | 4 567 | 5 059 | 2.93 | 0.94 | 13.9 | 14.5 | 2.24 | 0.40 |
| LATIN AMERICA | 19 367 | 21 179 | 0.33 | 0.65 | 28.0 | 28.1 | -0.74 | -0.14 |
| Argentina | 512 | 653 | 1.20 | 1.90 | 10.0 | 11.1 | 1.25 | 0.99 |
| Brazil | 7 300 | 7 233 | -1.60 | -0.08 | 34.6 | 32.3 | -2.40 | -0.57 |
| Chile | 280 | 323 | 4.49 | 0.77 | 12.3 | 13.6 | 3.26 | 0.55 |
| Colombia | 1 995 | 2 316 | 3.60 | 0.85 | 36.3 | 39.0 | 1.69 | 0.32 |
| Mexico | 854 | 1 110 | 0.53 | 0.05 | 6.7 | 7.9 | -0.68 | -0.82 |
| Paraguay | 81 | 80 | 3.31 | 0.69 | 6.1 | 5.5 | 0.46 | -0.84 |
| Peru | 2 503 | 2 835 | 2.20 | 1.16 | 68.2 | 71.0 | 0.65 | 0.31 |
| EUROPE | 4 792 | 4 938 | 1.25 | 0.34 | 6.3 | 6.6 | 1.15 | 0.42 |
| European Union ¹ | 2 694 | 2 757 | 1.72 | 0.28 | 6.1 | 6.2 | 1.59 | 0.37 |
| United Kingdom | 633 | 661 | 0.35 | 0.35 | 9.4 | 9.4 | -0.30 | -0.01 |
| Russia | 1 091 | 1 095 | 1.04 | 0.39 | 7.5 | 7.6 | 0.86 | 0.60 |
| Ukraine | 132 | 151 | -0.96 | 0.96 | 2.9 | 3.6 | -0.21 | 1.64 |
| AFRICA | 40 778 | 59 186 | 3.80 | 3.33 | 27.4 | 31.5 | 1.31 | 1.24 |
| Egypt | 4 549 | 5 570 | 1.84 | 1.63 | 41.4 | 42.3 | -0.10 | 0.04 |
| Ethiopia | 776 | 1 317 | 21.79 | 4.64 | 6.4 | 8.6 | 18.35 | 2.44 |
| Nigeria | 7 372 | 11 100 | 2.82 | 3.77 | 31.7 | 37.6 | 0.11 | 1.49 |
| South Africa | 930 | 1 169 | 0.29 | 2.14 | 15.5 | 17.4 | -0.72 | 1.10 |
| ASIA | 435 508 | 474 919 | 0.91 | 0.61 | 77.2 | 77.5 | -0.06 | -0.15 |
| China ² | 147 174 | 152 475 | 1.29 | 0.21 | 76.5 | 76.5 | 0.09 | -0.01 |
| India | 102 886 | 121 354 | 1.25 | 1.02 | 69.9 | 74.4 | 0.24 | 0.11 |
| Indonesia | 37 674 | 36 708 | -0.27 | -0.14 | 126.1 | 111.1 | -0.62 | -1.31 |
| Iran | 3 593 | 3 875 | 3.43 | 1.14 | 37.4 | 36.0 | 1.34 | 0.25 |
| Japan | 7 523 | 7 217 | -1.65 | -0.27 | 53.0 | 53.8 | -0.92 | 0.28 |
| Kazakhstan | 264 | 338 | 3.33 | 1.92 | 12.6 | 14.7 | 1.41 | 1.04 |
| Korea | 4 513 | 4 031 | 0.25 | -0.79 | 61.1 | 53.2 | -1.82 | -1.29 |
| Malaysia | 2 699 | 3 168 | 0.15 | 1.21 | 78.6 | 82.9 | -0.60 | 0.12 |
| Pakistan | 3 310 | 4 360 | 3.56 | 1.85 | 12.5 | 13.3 | 0.82 | 0.19 |
| Philippines | 15 232 | 18 249 | 2.05 | 1.52 | 120.3 | 129.0 | 0.49 | 0.29 |
| Saudi Arabia | 1 280 | 1 516 | -0.06 | 1.50 | 36.9 | 38.1 | -2.25 | 0.32 |
| Thailand | 12 321 | 13 736 | -1.02 | 0.73 | 100.0 | 101.4 | 0.12 | 0.00 |
| Turkey | 807 | 970 | 1.42 | 1.55 | 9.1 | 10.2 | -0.01 | 1.03 |
| Viet Nam | 21 973 | 24 379 | 0.80 | 0.96 | 152.6 | 152.0 | -0.63 | -0.07 |
| OCEANIA | 888 | 1 233 | 1.69 | 1.08 | 20.7 | 25.6 | -0.10 | -0.08 |
| Australia | 357 | 583 | -4.32 | 0.26 | 14.1 | 20.7 | -5.62 | -0.72 |
| New Zealand | 55 | 63 | 4.02 | 1.50 | 11.5 | 12.2 | 3.02 | 0.80 |
| DEVELOPED COUNTRIES | 19 622 | 20 651 | 0.37 | 0.43 | 13.1 | 13.5 | 0.30 | 0.27 |
| DEVELOPING COUNTRIES | 486 668 | 546 333 | 1.15 | 0.89 | 63.9 | 63.6 | -0.15 | -0.21 |
| LEAST DEVELOPED COUNTRIES (LDC) | 83 451 | 100 746 | 1.41 | 1.63 | 75.8 | 73.6 | -0.30 | -0.38 |
| OECD³ | 24 947 | 25 880 | 0.52 | 0.20 | 16.1 | 16.3 | -0.07 | -0.07 |
| BRICS | 259 380 | 283 325 | 1.18 | 0.55 | 66.7 | 68.6 | 0.07 | 0.05 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.17. Main policy assumptions for cereal markets

Marketing year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|--|------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ARGENTINA | | | | | | | | | | | | |
| Crops export tax | % | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| Rice export tax | % | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| CANADA | | | | | | | | | | | | |
| Tariff-quotas ¹ | | | | | | | | | | | | |
| Wheat | kt | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 |
| In-quota tariff | % | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| Out-of-quota tariff | % | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 |
| Barley | kt | 399.0 | 399.0 | 399.0 | 399.0 | 399.0 | 399.0 | 399.0 | 399.0 | 399.0 | 399.0 | 399.0 |
| In-quota tariff | % | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| Out-of-quota tariff | % | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 |
| EUROPEAN UNION^{2,3} | | | | | | | | | | | | |
| Voluntary coupled support | | | | | | | | | | | | |
| Wheat ⁴ | mIn EUR | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 |
| Rice ⁵ | mIn EUR | 55.7 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 |
| Cereal reference price ⁶ | EUR/t | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 |
| Direct payments ceilings ⁷ | bln EUR | 41.8 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 |
| Rice reference price ⁸ | EUR/t | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 |
| Wheat tariff-quota ¹ | kt | 4 519.8 | 4 523.2 | 4 523.2 | 4 523.2 | 4 523.2 | 4 523.2 | 4 523.2 | 4 523.2 | 4 523.2 | 4 523.2 | 4 523.2 |
| Coarse grain tariff-quota ¹ | kt | 4 450.5 | 4 470.8 | 4 470.8 | 4 470.8 | 4 470.8 | 4 470.8 | 4 470.8 | 4 470.8 | 4 470.8 | 4 470.8 | 4 470.8 |
| JAPAN | | | | | | | | | | | | |
| Wheat tariff-quota | kt | 5 740.0 | 5 740.0 | 5 740.0 | 5 740.0 | 5 740.0 | 5 740.0 | 5 740.0 | 5 740.0 | 5 740.0 | 5 740.0 | 5 740.0 |
| In-quota tariff | '000 JPY/t | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Out-of-quota tariff | '000 JPY/t | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 |
| Barley tariff-quota | kt | 1 369.0 | 1 369.0 | 1 369.0 | 1 369.0 | 1 369.0 | 1 369.0 | 1 369.0 | 1 369.0 | 1 369.0 | 1 369.0 | 1 369.0 |
| In-quota tariff | '000 JPY/t | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Out-of-quota tariff | '000 JPY/t | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 |
| Rice tariff-quota | kt | 682.2 | 682.2 | 682.2 | 682.2 | 682.2 | 682.2 | 682.2 | 682.2 | 682.2 | 682.2 | 682.2 |
| In-quota tariff | '000 JPY/t | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Out-of-quota tariff | '000 JPY/t | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 |
| KOREA | | | | | | | | | | | | |
| Wheat tariff | % | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| Maize tariff-quota | kt | 6 102.0 | 6 102.0 | 6 102.0 | 6 102.0 | 6 102.0 | 6 102.0 | 6 102.0 | 6 102.0 | 6 102.0 | 6 102.0 | 6 102.0 |
| In-quota tariff | % | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| Out-of-quota tariff | % | 304.7 | 304.7 | 304.7 | 304.7 | 304.7 | 304.7 | 304.7 | 304.7 | 304.7 | 304.7 | 304.7 |
| Barley tariff-quota | kt | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 |
| In-quota tariff | % | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| Out-of-quota tariff | % | 271.4 | 271.4 | 271.4 | 271.4 | 271.4 | 271.4 | 271.4 | 271.4 | 271.4 | 271.4 | 271.4 |
| Rice quota ⁹ | kt | 408.7 | 408.7 | 408.7 | 408.7 | 408.7 | 408.7 | 408.7 | 408.7 | 408.7 | 408.7 | 408.7 |
| In-quota tariff | % | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| MERCOSUR | | | | | | | | | | | | |
| Wheat tariff | % | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Coarse grain tariff ¹⁰ | % | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| Rice tariff | % | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| MEXICO | | | | | | | | | | | | |
| Barley import tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| UNITED STATES | | | | | | | | | | | | |
| ARC participation rate | | | | | | | | | | | | |
| Wheat | % | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| Coarse grains | % | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Wheat loan rate | USD/t | 118.8 | 124.2 | 124.2 | 124.2 | 124.2 | 124.2 | 124.2 | 124.2 | 124.2 | 124.2 | 124.2 |
| Maize loan rate | USD/t | 83.3 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 |
| CHINA | | | | | | | | | | | | |
| Wheat tariff-quota | kt | 9 636 | 9 636 | 9 636 | 9 636 | 9 636 | 9 636 | 9 636 | 9 636 | 9 636 | 9 636 | 9 636 |
| In-quota tariff | % | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Out-of-quota tariff | % | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 |
| Coarse grains tariff | % | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Maize tariff-quota | kt | 7 200 | 7 200 | 7 200 | 7 200 | 7 200 | 7 200 | 7 200 | 7 200 | 7 200 | 7 200 | 7 200 |
| In-quota tariff | % | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Out-of-quota tariff | % | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 |
| Rice tariff-quota | kt | 5 320 | 5 320 | 5 320 | 5 320 | 5 320 | 5 320 | 5 320 | 5 320 | 5 320 | 5 320 | 5 320 |
| In-quota tariff | % | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Out-of-quota tariff | % | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 |

ANNEX C

Table C.17. Main policy assumptions for cereal markets (cont.)

Marketing year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|--|-------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| INDIA | | | | | | | | | | | | |
| Minimum support price | | | | | | | | | | | | |
| Rice | INR/t | 20 361 | 18 076 | 18 578 | 19 092 | 19 626 | 20 176 | 20 717 | 21 245 | 21 761 | 22 267 | 22 760 |
| Wheat | INR/t | 17 595 | 19 138 | 19 539 | 20 679 | 21 076 | 22 124 | 22 645 | 23 640 | 24 218 | 25 129 | 25 733 |
| Wheat tariff | % | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 |
| Rice tariff | % | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 |
| RUSSIA | | | | | | | | | | | | |
| Wheat ad valorem import tax | % | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Rice tariff equivalent of import barriers | % | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Coarse grains tariff equivalent of import barriers | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Coarse grain specific tariff | RUB/t | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Coarse grain ad valorem import tax | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated. The sources for tariffs and Tariff Rate Quotas are the national questionnaire reply, UNCTAD and WTO.

1. Year beginning 1 July.
2. Since 2015 the Basic payment scheme (BPS) holds, which shall account for 68% maximum of the national direct payment envelopes. On top of this, compulsory policy instruments have been introduced: the Green Payment (30%) and young farmer scheme (2%).
3. Refers to all current European Union member States (excludes the United Kingdom)
4. Mainly for durum wheat. Implemented in 6 Member States.
5. Implemented in 6 Member States.
6. Buying-in at the fixed reference price is operable automatically only for common wheat up to a maximum quantity of 3 million tons per marketing year. Above that ceiling and for durum wheat, maize and barley intervention can take place only via tender.
7. Estimated net amounts for all direct payments based on Annex II of EU Regulation No 1307/2013, accounting for the transfers between direct aids and rural development envelopes.
8. Intervention is set at zero tonnes per marketing year. However, the Commission may initiate intervention if market requires.
9. Milled rice basis.
10. Applied by Brazil only.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.18.1. Soybean projections: Production and trade

Marketing year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|--------------------|----------------|-------------------------|--------------|--------------------|----------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 356 133 | 411 052 | 3.97 | 1.08 | 158 168 | 178 605 | 7.33 | 1.06 | 156 859 | 178 605 | 6.66 | 1.06 |
| NORTH AMERICA | 116 547 | 132 125 | 3.45 | 0.84 | 1 172 | 909 | -0.51 | 0.00 | 55 189 | 62 265 | 4.36 | 1.31 |
| Canada | 6 640 | 9 038 | 4.26 | 2.58 | 591 | 500 | 7.72 | 0.00 | 4 539 | 6 207 | 5.02 | 2.73 |
| United States | 109 907 | 123 088 | 3.40 | 0.72 | 581 | 409 | -5.29 | 0.00 | 50 651 | 56 057 | 4.29 | 1.16 |
| LATIN AMERICA | 192 893 | 223 309 | 4.46 | 1.15 | 11 922 | 11 351 | 10.98 | 0.70 | 97 556 | 111 886 | 8.17 | 0.91 |
| Argentina | 50 767 | 55 213 | -0.96 | 0.95 | 4 210 | 3 001 | 935.63 | 0.00 | 10 202 | 12 474 | -7.50 | 2.89 |
| Brazil | 126 672 | 149 335 | 7.50 | 1.15 | 410 | 410 | 6.04 | 0.00 | 79 073 | 89 609 | 12.07 | 0.59 |
| Chile | 0 | 0 | .. | .. | 220 | 214 | 3.09 | 0.70 | 2 | 2 | 145.49 | -0.70 |
| Colombia | 73 | 86 | -0.08 | 1.32 | 623 | 674 | 2.41 | 0.80 | 0 | 0 | -62.85 | .. |
| Mexico | 279 | 582 | 2.81 | 5.66 | 4 987 | 5 672 | 4.97 | 1.42 | 0 | 0 | .. | .. |
| Paraguay | 9 750 | 12 104 | 6.41 | 1.87 | 0 | 0 | -79.34 | .. | 5 817 | 7 327 | 5.27 | 1.85 |
| Peru | 5 | 6 | 0.00 | 2.00 | 393 | 435 | 18.81 | 1.04 | 0 | 0 | .. | .. |
| EUROPE | 11 225 | 12 763 | 9.14 | 1.82 | 18 486 | 16 774 | 4.08 | -0.48 | 3 422 | 3 509 | 10.86 | 1.47 |
| European Union ¹ | 2 771 | 3 519 | 12.84 | 1.81 | 14 630 | 13 265 | 2.95 | -0.31 | 228 | 275 | 10.67 | 1.75 |
| United Kingdom | 0 | 0 | .. | .. | 745 | 758 | -0.43 | 0.00 | 0 | 0 | .. | .. |
| Russia | 4 324 | 5 042 | 13.12 | 1.83 | 2 247 | 1 945 | 15.59 | -2.25 | 930 | 936 | 37.54 | 0.00 |
| Ukraine | 3 674 | 3 710 | 4.85 | 1.95 | 14 | 10 | 35.69 | -0.10 | 2 256 | 2 292 | 6.68 | 2.11 |
| AFRICA | 2 938 | 3 422 | 4.51 | 1.51 | 5 478 | 7 565 | 12.80 | 2.56 | 191 | 205 | 3.16 | -0.31 |
| Egypt | 30 | 32 | -0.11 | 0.56 | 4 140 | 5 770 | 13.36 | 2.61 | 37 | 39 | 5.30 | -2.54 |
| Ethiopia | 120 | 148 | 12.88 | 1.90 | 3 | 0 | -58.77 | .. | 78 | 104 | 116.19 | 2.22 |
| Nigeria | 690 | 756 | 1.28 | 0.76 | 87 | 181 | 194.35 | 9.47 | 10 | 7 | 63.75 | -2.71 |
| South Africa | 1 324 | 1 627 | 8.38 | 2.16 | 55 | 145 | 22.73 | -0.13 | 14 | 3 | -26.06 | -0.15 |
| ASIA | 32 487 | 39 389 | 1.84 | 1.27 | 121 109 | 142 005 | 7.48 | 1.22 | 493 | 729 | -2.53 | 0.37 |
| China ² | 17 889 | 22 671 | 4.01 | 1.40 | 92 293 | 108 219 | 7.06 | 1.21 | 183 | 300 | -11.48 | 0.00 |
| India | 12 361 | 14 097 | -0.27 | 1.07 | 174 | 8 | 65.25 | -0.89 | 193 | 365 | 12.66 | 0.95 |
| Indonesia | 565 | 659 | -6.14 | 0.74 | 2 728 | 3 287 | 5.54 | 1.93 | 3 | 5 | 17.92 | -0.22 |
| Iran | 213 | 254 | 3.03 | 1.51 | 2 350 | 2 777 | 26.40 | 1.48 | 27 | 9 | 31.13 | -1.46 |
| Japan | 224 | 253 | 0.52 | 0.25 | 3 325 | 3 127 | 2.46 | -0.71 | 0 | 0 | .. | .. |
| Kazakhstan | 274 | 336 | 6.76 | 1.58 | 27 | 21 | -4.77 | -0.84 | 13 | 0 | 58.79 | .. |
| Korea | 94 | 143 | -5.23 | 3.82 | 1 338 | 1 549 | 1.18 | 1.33 | 0 | 0 | .. | .. |
| Malaysia | 0 | 0 | .. | .. | 933 | 1 082 | 9.25 | 1.37 | 10 | 8 | -10.36 | -1.35 |
| Pakistan | 2 | 2 | -15.29 | 1.74 | 2 347 | 3 304 | 34.22 | 2.06 | 0 | 0 | .. | .. |
| Philippines | 1 | 1 | 0.00 | 1.60 | 233 | 264 | 21.20 | 1.59 | 0 | 0 | .. | .. |
| Saudi Arabia | 0 | 0 | .. | .. | 784 | 903 | 67.08 | 1.13 | 0 | 0 | .. | .. |
| Thailand | 43 | 45 | -7.04 | 0.20 | 3 537 | 4 414 | 8.90 | 1.45 | 5 | 3 | -12.35 | -1.43 |
| Turkey | 140 | 161 | 0.46 | 1.35 | 2 812 | 3 367 | 11.20 | 1.02 | 18 | 4 | 69.36 | -1.01 |
| Viet Nam | 78 | 99 | -12.51 | 1.98 | 1 830 | 2 014 | 6.99 | 1.08 | 3 | 3 | 125.51 | -0.82 |
| OCEANIA | 42 | 44 | -1.85 | 0.84 | 2 | 2 | -1.52 | -0.05 | 8 | 11 | 17.15 | 0.00 |
| Australia | 42 | 44 | -1.85 | 0.84 | 1 | 1 | -2.85 | -0.09 | 8 | 11 | 17.15 | 0.00 |
| New Zealand | 0 | 0 | .. | .. | 1 | 1 | 0.00 | -0.02 | 0 | 0 | .. | .. |
| DEVELOPED COUNTRIES | 129 639 | 147 152 | 3.89 | 0.93 | 23 763 | 21 739 | 3.54 | -0.44 | 58 646 | 65 788 | 4.64 | 1.32 |
| DEVELOPING COUNTRIES | 226 494 | 263 900 | 4.00 | 1.17 | 134 405 | 156 866 | 8.12 | 1.29 | 98 213 | 112 817 | 8.08 | 0.91 |
| LEAST DEVELOPED COUNTRIES (LDC) | 888 | 983 | 2.28 | 1.00 | 1 605 | 2 307 | 34.99 | 2.70 | 21 | 15 | 2.82 | -1.76 |
| OECD³ | 120 176 | 136 920 | 3.58 | 0.88 | 31 013 | 30 784 | 3.44 | 0.26 | 55 446 | 62 557 | 4.37 | 1.31 |
| BRICS | 162 570 | 192 772 | 6.39 | 1.20 | 95 180 | 110 727 | 7.22 | 1.13 | 80 394 | 91 212 | 12.01 | 0.59 |

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.18.2. Soybean projections: Consumption, domestic crush

Marketing year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | | DOMESTIC CRUSH (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|---------------------|----------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 358 602 | 410 638 | 4.26 | 1.13 | 324 278 | 371 490 | 4.47 | 1.17 |
| NORTH AMERICA | 65 341 | 70 630 | 3.26 | 0.68 | 60 024 | 64 796 | 3.12 | 0.70 |
| Canada | 2 710 | 3 317 | 3.68 | 1.89 | 1 900 | 2 615 | 3.25 | 1.88 |
| United States | 62 631 | 67 313 | 3.24 | 0.62 | 58 124 | 62 181 | 3.11 | 0.65 |
| LATIN AMERICA | 107 498 | 122 675 | 2.44 | 1.39 | 100 339 | 114 374 | 2.46 | 1.39 |
| Argentina | 44 275 | 45 746 | 1.83 | 0.41 | 43 260 | 44 673 | 1.87 | 0.41 |
| Brazil | 48 509 | 60 044 | 2.28 | 2.14 | 43 118 | 53 690 | 2.25 | 2.22 |
| Chile | 218 | 213 | 2.91 | 0.72 | 217 | 210 | 2.88 | 0.72 |
| Colombia | 690 | 760 | 3.19 | 0.89 | 683 | 754 | 3.14 | 0.90 |
| Mexico | 5 349 | 6 254 | 5.30 | 1.89 | 5 110 | 6 002 | 5.58 | 1.95 |
| Paraguay | 4 057 | 4 766 | 7.08 | 1.99 | 3 899 | 4 601 | 7.22 | 2.00 |
| Peru | 395 | 441 | 17.08 | 1.08 | 395 | 441 | 17.25 | 1.08 |
| EUROPE | 26 848 | 26 030 | 5.34 | 0.32 | 24 358 | 23 655 | 5.43 | 0.33 |
| European Union ¹ | 17 586 | 16 514 | 4.21 | 0.07 | 15 591 | 14 662 | 4.06 | 0.08 |
| United Kingdom | 745 | 758 | -0.43 | 0.00 | 705 | 688 | 0.32 | -0.17 |
| Russia | 5 785 | 6 052 | 11.60 | 0.60 | 5 701 | 5 973 | 11.50 | 0.61 |
| Ukraine | 1 427 | 1 425 | 3.55 | 1.86 | 1 286 | 1 312 | 3.58 | 1.96 |
| AFRICA | 8 251 | 10 764 | 9.46 | 2.31 | 7 598 | 9 949 | 11.05 | 2.29 |
| Egypt | 4 083 | 5 750 | 12.71 | 2.67 | 4 083 | 5 750 | 12.77 | 2.67 |
| Ethiopia | 45 | 44 | 4.95 | 1.17 | 24 | 19 | 4.81 | 0.83 |
| Nigeria | 767 | 930 | 2.66 | 2.03 | 636 | 750 | 10.36 | 1.60 |
| South Africa | 1 435 | 1 765 | 11.74 | 2.10 | 1 297 | 1 604 | 11.80 | 2.08 |
| ASIA | 150 625 | 180 504 | 5.77 | 1.19 | 131 920 | 158 683 | 6.44 | 1.28 |
| China ² | 107 699 | 130 471 | 6.10 | 1.16 | 92 678 | 112 793 | 6.63 | 1.29 |
| India | 12 161 | 13 729 | -0.03 | 1.11 | 10 405 | 11 633 | 0.55 | 0.96 |
| Indonesia | 3 239 | 3 937 | 2.52 | 1.77 | 2 728 | 3 501 | 5.54 | 2.01 |
| Iran | 2 563 | 3 020 | 22.25 | 1.52 | 2 542 | 3 001 | 22.59 | 1.53 |
| Japan | 3 617 | 3 381 | 2.24 | -0.61 | 2 835 | 2 571 | 3.34 | -0.93 |
| Kazakhstan | 281 | 356 | 4.28 | 1.62 | 154 | 191 | 3.15 | 1.21 |
| Korea | 1 425 | 1 692 | 0.61 | 1.61 | 1 403 | 1 664 | 0.88 | 1.61 |
| Malaysia | 910 | 1 073 | 10.08 | 1.42 | 909 | 1 070 | 10.06 | 1.43 |
| Pakistan | 2 365 | 3 300 | 33.80 | 2.11 | 2 358 | 3 300 | 33.82 | 2.11 |
| Philippines | 224 | 265 | 20.80 | 1.73 | 223 | 265 | 20.82 | 1.73 |
| Saudi Arabia | 783 | 903 | 70.62 | 1.14 | 781 | 900 | 70.57 | 1.14 |
| Thailand | 3 515 | 4 453 | 8.21 | 1.47 | 3 508 | 4 433 | 8.52 | 1.48 |
| Turkey | 2 968 | 3 519 | 10.20 | 1.15 | 2 888 | 3 401 | 10.65 | 1.19 |
| Viet Nam | 1 899 | 2 106 | 5.30 | 1.22 | 1 858 | 2 060 | 6.28 | 1.25 |
| OCEANIA | 40 | 35 | -2.94 | 1.07 | 38 | 34 | -2.92 | 1.12 |
| Australia | 39 | 34 | -3.00 | 1.11 | 38 | 34 | -2.92 | 1.12 |
| New Zealand | 1 | 1 | 0.00 | -0.02 | 0 | 0 | 0.00 | 0.00 |
| DEVELOPED COUNTRIES | 98 261 | 102 962 | 3.84 | 0.57 | 89 400 | 93 608 | 3.80 | 0.58 |
| DEVELOPING COUNTRIES | 260 341 | 307 676 | 4.43 | 1.32 | 234 878 | 277 882 | 4.74 | 1.38 |
| LEAST DEVELOPED COUNTRIES (LDC) | 2 466 | 3 273 | 13.88 | 2.20 | 2 030 | 2 710 | 18.72 | 2.19 |
| OECD³ | 99 143 | 105 008 | 3.58 | 0.63 | 90 653 | 96 028 | 3.54 | 0.66 |
| BRICS | 175 589 | 212 060 | 4.59 | 1.42 | 153 200 | 185 693 | 4.92 | 1.51 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.19.1. Other oilseed projections: Production and trade

Marketing year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|--------------------|---------------|-------------------------|-------------|--------------------|---------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 156 040 | 179 493 | 2.46 | 1.27 | 21 625 | 24 047 | 2.91 | 1.38 | 21 204 | 24 047 | 2.49 | 1.38 |
| NORTH AMERICA | 24 206 | 27 703 | 3.73 | 1.12 | 1 057 | 1 140 | 1.33 | 1.97 | 10 571 | 11 863 | 2.62 | 1.23 |
| Canada | 19 741 | 22 504 | 3.73 | 1.24 | 268 | 243 | 1.50 | 0.25 | 9 889 | 11 039 | 2.64 | 1.23 |
| United States | 4 466 | 5 199 | 4.04 | 0.65 | 788 | 898 | 1.49 | 2.49 | 682 | 824 | 2.75 | 1.20 |
| LATIN AMERICA | 6 091 | 6 714 | 2.15 | 1.20 | 1 657 | 1 998 | 0.01 | 1.69 | 1 040 | 1 490 | 7.11 | 5.66 |
| Argentina | 4 214 | 4 391 | 1.61 | 0.89 | 1 | 1 | 56.51 | 0.00 | 668 | 999 | 5.11 | 8.06 |
| Brazil | 624 | 885 | 6.29 | 2.93 | 6 | 5 | -9.43 | 0.00 | 176 | 243 | 17.87 | 2.19 |
| Chile | 200 | 227 | 5.24 | 0.97 | 38 | 23 | 11.24 | -1.15 | 9 | 12 | 13.08 | 0.99 |
| Colombia | 2 | 3 | 0.00 | 2.03 | 7 | 7 | 0.00 | 0.19 | 0 | 0 | .. | .. |
| Mexico | 102 | 119 | -0.11 | 1.24 | 1 578 | 1 938 | -0.12 | 1.79 | 3 | 3 | 8.45 | 0.00 |
| Paraguay | 218 | 247 | -1.60 | 1.39 | 0 | 0 | .. | .. | 27 | 37 | -2.22 | 2.85 |
| Peru | 6 | 8 | 0.00 | 1.86 | 1 | 0 | 0.00 | .. | 0 | 0 | .. | .. |
| EUROPE | 65 411 | 76 574 | 3.24 | 1.68 | 7 567 | 7 256 | 5.76 | 0.03 | 5 283 | 6 593 | 3.65 | 2.85 |
| European Union ¹ | 26 338 | 30 222 | 0.32 | 1.08 | 6 585 | 6 393 | 4.93 | 0.06 | 914 | 901 | 0.99 | -0.32 |
| United Kingdom | 1 918 | 2 055 | -3.93 | 0.40 | 373 | 319 | 9.80 | -0.07 | 115 | 129 | -22.54 | -0.26 |
| Russia | 16 425 | 19 027 | 6.35 | 2.53 | 245 | 254 | 10.62 | 0.25 | 868 | 1 240 | 16.23 | 3.59 |
| Ukraine | 18 366 | 22 580 | 6.94 | 2.00 | 30 | 31 | 3.31 | -0.20 | 2 651 | 3 535 | 6.55 | 4.30 |
| AFRICA | 9 147 | 10 112 | 0.90 | 0.93 | 427 | 457 | 2.05 | 1.95 | 262 | 124 | 6.56 | -6.99 |
| Egypt | 118 | 126 | -0.27 | 0.64 | 85 | 69 | 1.79 | -0.02 | 22 | 18 | 6.14 | 0.02 |
| Ethiopia | 99 | 115 | 0.35 | 1.54 | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| Nigeria | 2 154 | 2 433 | 0.07 | 1.14 | 0 | 55 | .. | 289.83 | 23 | 0 | -10.98 | -67.30 |
| South Africa | 898 | 1 087 | 2.43 | 1.09 | 25 | 0 | -5.81 | -33.27 | 4 | 4 | -12.19 | 9.06 |
| ASIA | 48 327 | 54 903 | 1.65 | 0.95 | 10 885 | 13 174 | 1.97 | 2.07 | 2 133 | 1 686 | 7.05 | -1.95 |
| China ² | 28 274 | 31 059 | 0.94 | 0.85 | 3 782 | 6 057 | 2.57 | 4.52 | 699 | 704 | 4.69 | -0.08 |
| India | 12 553 | 15 081 | 2.85 | 0.94 | 167 | 164 | -3.41 | -0.54 | 569 | 236 | 5.62 | -10.37 |
| Indonesia | 637 | 696 | -1.93 | 1.21 | 234 | 237 | 5.96 | -1.34 | 2 | 1 | 1.22 | 0.12 |
| Iran | 399 | 427 | 6.38 | 1.21 | 189 | 225 | 22.34 | 1.42 | 1 | 1 | 0.00 | -0.12 |
| Japan | 24 | 25 | 1.73 | 0.67 | 2 477 | 2 491 | 0.14 | -0.09 | 0 | 0 | .. | .. |
| Kazakhstan | 1 194 | 1 461 | 10.07 | 1.69 | 7 | 7 | -1.31 | 0.05 | 524 | 540 | 22.32 | 1.64 |
| Korea | 12 | 10 | 2.66 | -1.30 | 30 | 33 | -4.05 | 0.43 | 0 | 0 | .. | .. |
| Malaysia | 5 | 6 | 0.00 | 1.65 | 44 | 47 | 2.06 | 0.83 | 3 | 3 | 0.00 | -0.82 |
| Pakistan | 900 | 1 120 | -1.14 | 1.33 | 867 | 806 | -0.36 | 0.77 | 0 | 0 | -79.81 | .. |
| Philippines | 20 | 24 | 0.35 | 1.58 | 83 | 90 | 5.35 | 0.97 | 0 | 0 | .. | .. |
| Saudi Arabia | 3 | 2 | 0.00 | -2.56 | 4 | 5 | 0.00 | 1.91 | 0 | 0 | .. | .. |
| Thailand | 90 | 94 | 0.24 | 0.50 | 51 | 55 | -1.60 | -0.40 | 3 | 4 | -0.33 | 0.25 |
| Turkey | 1 846 | 2 269 | 5.15 | 1.46 | 930 | 498 | -1.20 | -1.01 | 102 | 13 | 2.26 | 0.98 |
| Viet Nam | 329 | 388 | 3.67 | 1.51 | 189 | 178 | 110.14 | -0.41 | 35 | 37 | 12.14 | 0.41 |
| OCEANIA | 2 859 | 3 488 | -2.98 | 0.03 | 32 | 21 | 2.16 | -0.24 | 1 915 | 2 290 | -4.84 | -0.43 |
| Australia | 2 846 | 3 474 | -2.99 | 0.03 | 28 | 17 | 4.00 | -0.20 | 1 914 | 2 289 | -4.84 | -0.44 |
| New Zealand | 10 | 10 | 0.00 | -0.05 | 4 | 5 | -4.99 | -0.04 | 0 | 1 | .. | 0.00 |
| DEVELOPED COUNTRIES | 94 718 | 110 484 | 3.16 | 1.48 | 11 565 | 11 336 | 3.99 | 0.20 | 18 325 | 21 317 | 2.07 | 1.51 |
| DEVELOPING COUNTRIES | 61 322 | 69 010 | 1.46 | 0.95 | 10 059 | 12 712 | 1.80 | 2.55 | 2 879 | 2 730 | 5.64 | 0.37 |
| LEAST DEVELOPED COUNTRIES (LDC) | 6 332 | 6 826 | 0.77 | 0.83 | 287 | 345 | 0.71 | 1.12 | 191 | 86 | 16.57 | -8.43 |
| OECD³ | 57 652 | 66 284 | 1.39 | 1.03 | 13 264 | 13 026 | 2.59 | 0.38 | 13 644 | 15 226 | 0.45 | 0.85 |
| BRICS | 58 774 | 67 141 | 2.71 | 1.35 | 4 224 | 6 480 | 2.45 | 4.12 | 2 315 | 2 427 | 8.75 | -0.04 |

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.19.2. Other oilseed projections: Consumption, domestic crush

Marketing year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | | DOMESTIC CRUSH (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|---------------------|----------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 157 518 | 179 455 | 2.59 | 1.28 | 136 285 | 156 817 | 2.90 | 1.37 |
| NORTH AMERICA | 15 180 | 16 966 | 4.74 | 1.14 | 12 750 | 14 462 | 4.88 | 1.23 |
| Canada | 10 599 | 11 693 | 5.32 | 1.27 | 9 980 | 11 129 | 5.20 | 1.31 |
| United States | 4 581 | 5 273 | 3.54 | 0.86 | 2 770 | 3 333 | 3.91 | 0.97 |
| LATIN AMERICA | 6 819 | 7 222 | 1.18 | 0.58 | 6 291 | 6 618 | 1.17 | 0.52 |
| Argentina | 3 652 | 3 393 | 1.44 | -0.60 | 3 523 | 3 269 | 1.80 | -0.61 |
| Brazil | 461 | 647 | 3.36 | 3.19 | 383 | 530 | 2.53 | 3.05 |
| Chile | 229 | 238 | 5.69 | 0.74 | 209 | 216 | 5.75 | 0.70 |
| Colombia | 9 | 10 | 0.00 | 0.65 | 8 | 9 | 0.00 | 0.84 |
| Mexico | 1 678 | 2 054 | -0.12 | 1.76 | 1 509 | 1 872 | -0.61 | 1.86 |
| Paraguay | 191 | 210 | -2.33 | 1.17 | 158 | 169 | -2.56 | 0.90 |
| Peru | 7 | 8 | 0.00 | 1.59 | 3 | 3 | 0.00 | 1.20 |
| EUROPE | 67 835 | 77 246 | 3.51 | 1.43 | 63 527 | 72 722 | 3.74 | 1.48 |
| European Union ¹ | 32 307 | 35 739 | 1.08 | 0.92 | 29 948 | 33 307 | 1.12 | 0.99 |
| United Kingdom | 2 176 | 2 244 | 1.15 | 0.37 | 2 101 | 2 169 | 1.24 | 0.38 |
| Russia | 15 686 | 18 030 | 6.33 | 2.45 | 14 979 | 17 147 | 6.80 | 2.48 |
| Ukraine | 15 707 | 19 072 | 7.12 | 1.63 | 14 792 | 18 205 | 7.62 | 1.66 |
| AFRICA | 9 363 | 10 437 | 0.90 | 1.12 | 5 652 | 5 948 | 1.17 | 0.58 |
| Egypt | 185 | 177 | 0.64 | 0.44 | 134 | 120 | 2.15 | 0.31 |
| Ethiopia | 99 | 115 | 0.35 | 1.54 | 62 | 72 | 1.56 | 1.51 |
| Nigeria | 2 130 | 2 489 | 0.33 | 1.44 | 746 | 770 | 0.32 | 0.19 |
| South Africa | 945 | 1 077 | 2.71 | 0.93 | 849 | 950 | 2.70 | 0.74 |
| ASIA | 57 228 | 66 366 | 1.55 | 1.26 | 47 083 | 55 961 | 1.85 | 1.45 |
| China ² | 31 381 | 36 412 | 1.13 | 1.40 | 24 659 | 29 892 | 1.45 | 1.73 |
| India | 12 152 | 14 989 | 2.25 | 1.30 | 10 689 | 13 298 | 2.47 | 1.38 |
| Indonesia | 862 | 931 | -0.27 | 0.50 | 278 | 337 | 4.34 | 1.27 |
| Iran | 589 | 651 | 9.89 | 1.29 | 547 | 600 | 10.21 | 1.25 |
| Japan | 2 536 | 2 516 | 0.22 | -0.08 | 2 404 | 2 372 | -0.38 | -0.09 |
| Kazakhstan | 714 | 926 | 5.69 | 1.77 | 570 | 730 | 5.93 | 1.68 |
| Korea | 43 | 43 | -2.71 | 0.01 | 38 | 38 | -2.82 | 0.01 |
| Malaysia | 46 | 50 | 1.96 | 1.02 | 45 | 48 | 2.03 | 0.98 |
| Pakistan | 1 759 | 1 925 | -0.46 | 1.09 | 1 614 | 1 754 | -0.47 | 1.11 |
| Philippines | 104 | 113 | 4.49 | 1.10 | 91 | 100 | 5.12 | 1.22 |
| Saudi Arabia | 7 | 7 | 0.00 | 0.47 | 5 | 5 | 0.00 | 0.58 |
| Thailand | 140 | 146 | -0.32 | 0.17 | 82 | 95 | -0.82 | 0.79 |
| Turkey | 2 704 | 2 754 | 3.07 | 0.97 | 2 500 | 2 501 | 2.92 | 0.92 |
| Viet Nam | 483 | 529 | 6.05 | 0.91 | 366 | 390 | 7.41 | 0.65 |
| OCEANIA | 1 093 | 1 219 | 2.87 | 0.97 | 983 | 1 105 | 2.96 | 1.08 |
| Australia | 1 076 | 1 202 | 2.96 | 0.98 | 971 | 1 094 | 3.00 | 1.09 |
| New Zealand | 14 | 14 | -2.15 | -0.05 | 11 | 10 | 0.00 | 0.00 |
| DEVELOPED COUNTRIES | 88 801 | 100 488 | 3.63 | 1.33 | 81 548 | 92 841 | 3.79 | 1.39 |
| DEVELOPING COUNTRIES | 68 717 | 78 967 | 1.37 | 1.22 | 54 737 | 63 976 | 1.68 | 1.34 |
| LEAST DEVELOPED COUNTRIES (LDC) | 6 435 | 7 084 | 0.46 | 1.03 | 4 479 | 4 744 | 0.59 | 0.65 |
| OECD³ | 58 240 | 64 093 | 2.00 | 0.95 | 52 696 | 58 323 | 1.94 | 1.00 |
| BRICS | 60 626 | 71 155 | 2.55 | 1.64 | 51 558 | 61 817 | 3.03 | 1.85 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.20.1. Protein meal projections: Production and trade

Marketing year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|--------------------|----------------|-------------------------|--------------|--------------------|----------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 353 712 | 406 279 | 3.64 | 1.24 | 91 660 | 100 527 | 2.12 | 0.84 | 92 771 | 100 527 | 1.68 | 0.84 |
| NORTH AMERICA | 57 224 | 62 594 | 3.13 | 0.83 | 5 046 | 4 940 | 2.10 | -0.15 | 17 835 | 19 222 | 4.08 | 1.09 |
| Canada | 7 044 | 8 368 | 4.46 | 1.45 | 1 066 | 984 | 1.04 | -1.02 | 5 152 | 5 896 | 5.72 | 1.40 |
| United States | 50 179 | 54 226 | 2.96 | 0.74 | 3 980 | 3 956 | 2.44 | 0.08 | 12 683 | 13 326 | 3.48 | 0.96 |
| LATIN AMERICA | 83 934 | 95 679 | 2.32 | 1.41 | 9 630 | 12 050 | 2.48 | 2.19 | 50 049 | 56 293 | 1.24 | 1.30 |
| Argentina | 35 437 | 36 443 | 1.69 | 0.38 | 0 | 0 | .. | .. | 31 387 | 31 845 | 1.80 | 0.27 |
| Brazil | 35 485 | 44 238 | 2.26 | 2.29 | 5 | 5 | -5.63 | 0.00 | 14 393 | 20 042 | -0.54 | 3.38 |
| Chile | 290 | 289 | 3.93 | 0.72 | 1 133 | 1 307 | 1.03 | 1.88 | 1 | 1 | -11.80 | -0.18 |
| Colombia | 732 | 824 | 3.09 | 0.98 | 1 621 | 2 299 | 9.68 | 3.44 | 97 | 80 | 6.08 | -3.33 |
| Mexico | 5 180 | 6 151 | 4.06 | 1.91 | 1 884 | 2 154 | 2.52 | 1.45 | 22 | 22 | 1.06 | 0.00 |
| Paraguay | 3 121 | 3 676 | 6.50 | 1.97 | 2 | 2 | 0.35 | -0.04 | 2 363 | 2 678 | 7.85 | 1.81 |
| Peru | 334 | 371 | 12.67 | 1.04 | 1 520 | 2 422 | 7.85 | 4.27 | 5 | 5 | 0.00 | -0.99 |
| EUROPE | 49 875 | 53 577 | 3.95 | 0.99 | 28 608 | 25 138 | -0.30 | -1.45 | 10 410 | 12 701 | 3.88 | 1.98 |
| European Union ¹ | 29 074 | 30 147 | 2.21 | 0.63 | 23 643 | 19 950 | -0.18 | -1.92 | 1 922 | 2 215 | -0.53 | 1.65 |
| United Kingdom | 1 654 | 1 672 | 0.97 | 0.21 | 2 793 | 2 701 | -0.58 | 0.06 | 474 | 562 | 15.46 | 1.41 |
| Russia | 9 808 | 10 817 | 8.23 | 1.57 | 326 | 346 | -9.24 | 0.13 | 2 382 | 2 827 | 2.40 | 2.09 |
| Ukraine | 7 589 | 9 140 | 7.09 | 1.70 | 30 | 29 | -8.24 | 0.08 | 5 245 | 6 772 | 6.33 | 2.22 |
| AFRICA | 10 550 | 12 921 | 6.18 | 1.91 | 4 504 | 5 852 | -0.71 | 2.35 | 686 | 604 | 2.45 | -1.63 |
| Egypt | 3 362 | 4 649 | 11.50 | 2.61 | 376 | 175 | -11.08 | -7.35 | 9 | 5 | 24.02 | 0.70 |
| Ethiopia | 110 | 121 | 4.72 | 1.53 | 20 | 53 | 103.11 | 10.49 | 0 | 0 | .. | .. |
| Nigeria | 1 010 | 1 147 | 4.55 | 1.10 | 567 | 653 | 28.71 | -0.48 | 188 | 203 | 3.37 | 0.48 |
| South Africa | 1 449 | 1 738 | 8.54 | 1.72 | 729 | 1 000 | -6.61 | 3.23 | 31 | 29 | -6.54 | -1.25 |
| ASIA | 151 170 | 180 160 | 4.38 | 1.31 | 40 520 | 48 677 | 4.28 | 1.74 | 13 689 | 11 538 | -0.67 | -2.32 |
| China ² | 89 475 | 108 083 | 5.13 | 1.34 | 4 258 | 4 861 | 20.96 | -1.30 | 1 021 | 1 075 | -4.46 | 2.12 |
| India | 19 624 | 23 130 | 0.60 | 1.24 | 492 | 1 219 | 20.75 | 11.81 | 2 946 | 1 232 | -4.93 | -10.56 |
| Indonesia | 8 130 | 10 050 | 5.45 | 1.60 | 4 862 | 5 254 | 4.06 | 0.99 | 5 440 | 5 208 | 5.52 | -0.98 |
| Iran | 2 362 | 2 778 | 19.08 | 1.49 | 1 878 | 1 391 | -4.65 | -0.15 | 40 | 10 | -24.38 | 0.04 |
| Japan | 3 635 | 3 407 | 1.82 | -0.61 | 1 862 | 1 558 | -2.23 | -1.58 | 1 | 1 | -11.95 | 0.00 |
| Kazakhstan | 458 | 561 | 4.37 | 1.34 | 5 | 5 | -0.08 | -0.02 | 139 | 134 | -0.67 | 0.29 |
| Korea | 1 200 | 1 399 | 0.78 | 1.48 | 3 466 | 3 475 | -0.47 | -0.05 | 50 | 50 | -8.42 | 0.00 |
| Malaysia | 3 441 | 3 865 | 1.79 | 1.05 | 1 500 | 1 599 | 3.01 | 0.68 | 2 509 | 2 403 | 0.11 | -0.67 |
| Pakistan | 4 043 | 4 878 | 3.90 | 1.77 | 404 | 1 110 | -8.66 | 11.52 | 66 | 42 | -12.42 | -4.93 |
| Philippines | 1 163 | 1 394 | 2.04 | 1.16 | 3 064 | 3 315 | 5.87 | 2.03 | 366 | 317 | -5.40 | -1.99 |
| Saudi Arabia | 619 | 713 | 47.71 | 1.14 | 1 715 | 2 279 | 14.04 | 2.74 | 25 | 20 | 86.29 | -2.07 |
| Thailand | 3 291 | 4 150 | 9.12 | 1.49 | 3 538 | 4 266 | 1.09 | 2.02 | 12 | 12 | 8.10 | -0.20 |
| Turkey | 4 315 | 4 808 | 5.90 | 1.24 | 2 202 | 2 987 | 3.12 | 2.92 | 166 | 119 | 0.16 | -2.25 |
| Viet Nam | 1 694 | 1 878 | 6.07 | 1.21 | 6 188 | 8 868 | 7.68 | 3.53 | 70 | 30 | -4.32 | -2.75 |
| OCEANIA | 959 | 1 348 | -0.05 | 2.18 | 3 353 | 3 869 | 5.09 | 1.85 | 101 | 169 | -4.31 | -0.09 |
| Australia | 827 | 1 199 | -0.18 | 2.32 | 1 065 | 1 247 | 6.63 | 2.24 | 47 | 102 | -10.96 | -0.01 |
| New Zealand | 8 | 7 | 0.19 | 0.00 | 2 276 | 2 612 | 4.47 | 1.68 | 0 | 0 | .. | .. |
| DEVELOPED COUNTRIES | 114 795 | 124 459 | 3.40 | 0.88 | 40 458 | 37 825 | 0.20 | -0.73 | 28 477 | 32 200 | 3.91 | 1.42 |
| DEVELOPING COUNTRIES | 238 917 | 281 821 | 3.75 | 1.39 | 51 202 | 62 703 | 3.90 | 1.91 | 64 294 | 68 327 | 0.81 | 0.57 |
| LEAST DEVELOPED COUNTRIES (LDC) | 4 929 | 5 869 | 4.63 | 1.76 | 1 127 | 2 049 | 10.40 | 4.49 | 352 | 284 | 3.77 | -2.74 |
| OECD³ | 104 672 | 113 068 | 2.88 | 0.82 | 48 550 | 47 237 | 0.81 | -0.31 | 20 719 | 22 477 | 3.52 | 1.10 |
| BRICS | 155 841 | 188 006 | 3.96 | 1.56 | 5 810 | 7 432 | 9.44 | 0.66 | 20 774 | 25 205 | -1.44 | 1.80 |

.. Not available

Note: Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.20.2. Protein meal projections: Consumption

Marketing year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | |
|--|--------------------|----------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 353 761 | 406 167 | 3.76 | 1.24 |
| NORTH AMERICA | 44 479 | 48 313 | 2.65 | 0.62 |
| Canada | 2 961 | 3 456 | 1.14 | 0.76 |
| United States | 41 518 | 44 856 | 2.77 | 0.61 |
| LATIN AMERICA | 43 592 | 51 410 | 3.51 | 1.71 |
| Argentina | 4 049 | 4 598 | 1.92 | 1.14 |
| Brazil | 21 097 | 24 201 | 3.86 | 1.46 |
| Chile | 1 404 | 1 593 | 1.53 | 1.70 |
| Colombia | 2 256 | 3 038 | 7.45 | 3.01 |
| Mexico | 7 040 | 8 282 | 3.62 | 1.79 |
| Paraguay | 750 | 985 | 4.28 | 2.87 |
| Peru | 1 849 | 2 785 | 8.44 | 3.81 |
| EUROPE | 68 091 | 66 013 | 2.03 | -0.16 |
| European Union ¹ | 50 794 | 47 882 | 1.14 | -0.55 |
| United Kingdom | 3 972 | 3 811 | -1.06 | -0.06 |
| Russia | 7 694 | 8 336 | 9.39 | 1.33 |
| Ukraine | 2 434 | 2 397 | 9.84 | 0.43 |
| AFRICA | 14 407 | 18 162 | 3.79 | 2.21 |
| Egypt | 3 739 | 4 817 | 5.80 | 2.00 |
| Ethiopia | 130 | 174 | 6.83 | 3.57 |
| Nigeria | 1 388 | 1 597 | 10.06 | 0.51 |
| South Africa | 2 131 | 2 707 | 1.44 | 2.33 |
| ASIA | 179 009 | 217 221 | 4.84 | 1.65 |
| China ² | 93 827 | 111 866 | 5.70 | 1.21 |
| India | 17 093 | 23 078 | 2.24 | 2.98 |
| Indonesia | 7 569 | 10 091 | 4.62 | 2.86 |
| Iran | 4 196 | 4 158 | 5.15 | 0.92 |
| Japan | 5 436 | 4 963 | -0.01 | -0.92 |
| Kazakhstan | 321 | 432 | 7.91 | 1.72 |
| Korea | 4 605 | 4 824 | 0.15 | 0.37 |
| Malaysia | 2 450 | 3 060 | 4.54 | 2.41 |
| Pakistan | 4 363 | 5 940 | 2.67 | 3.14 |
| Philippines | 3 832 | 4 388 | 6.25 | 2.11 |
| Saudi Arabia | 2 354 | 2 972 | 16.42 | 2.37 |
| Thailand | 6 841 | 8 403 | 4.35 | 1.77 |
| Turkey | 6 370 | 7 670 | 5.40 | 1.97 |
| Viet Nam | 7 808 | 10 714 | 7.65 | 3.12 |
| OCEANIA | 4 183 | 5 048 | 4.07 | 2.01 |
| Australia | 1 810 | 2 345 | 3.71 | 2.39 |
| New Zealand | 2 290 | 2 619 | 4.50 | 1.68 |
| DEVELOPED COUNTRIES | 126 734 | 130 079 | 2.20 | 0.27 |
| DEVELOPING COUNTRIES | 227 027 | 276 088 | 4.72 | 1.74 |
| LEAST DEVELOPED COUNTRIES (LDC) | 5 688 | 7 629 | 5.67 | 2.67 |
| OECD³ | 132 446 | 137 815 | 1.99 | 0.37 |
| BRICS | 141 842 | 170 189 | 5.03 | 1.49 |

Note: Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.21.1. Vegetable oil projections: Production and trade

Marketing year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|--------------------|---------------|-------------------------|--------------|--------------------|---------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 212 889 | 246 941 | 3.66 | 1.30 | 85 894 | 96 919 | 3.14 | 1.04 | 87 247 | 96 919 | 3.13 | 1.04 |
| NORTH AMERICA | 18 241 | 19 668 | 3.61 | 0.91 | 4 942 | 5 159 | 3.37 | 0.19 | 4 922 | 5 419 | 3.80 | 1.93 |
| Canada | 4 714 | 5 161 | 5.06 | 1.29 | 319 | 358 | -0.42 | 0.09 | 3 520 | 3 785 | 4.48 | 1.35 |
| United States | 13 527 | 14 507 | 3.14 | 0.78 | 4 623 | 4 801 | 3.69 | 0.20 | 1 402 | 1 634 | 2.28 | 3.42 |
| LATIN AMERICA | 28 103 | 32 225 | 3.24 | 1.39 | 4 777 | 5 089 | 1.61 | 0.47 | 11 573 | 13 042 | 3.43 | 1.27 |
| Argentina | 9 417 | 9 515 | 1.82 | 0.26 | 17 | 17 | 4.68 | 0.00 | 6 485 | 6 345 | 3.13 | -0.25 |
| Brazil | 10 126 | 12 692 | 3.56 | 2.35 | 482 | 493 | 0.64 | 0.70 | 1 349 | 2 756 | -3.16 | 7.90 |
| Chile | 120 | 121 | 4.75 | 0.71 | 468 | 540 | 4.36 | 0.87 | 1 | 1 | -4.45 | -0.13 |
| Colombia | 1 872 | 2 302 | 6.07 | 1.42 | 699 | 692 | 5.70 | 0.30 | 850 | 854 | 17.28 | -0.30 |
| Mexico | 2 000 | 2 410 | 2.81 | 1.84 | 1 065 | 1 173 | 3.27 | 0.59 | 52 | 51 | 4.52 | 0.00 |
| Paraguay | 767 | 900 | 5.82 | 1.92 | 13 | 11 | 0.00 | -2.03 | 657 | 776 | 10.17 | 2.07 |
| Peru | 292 | 360 | 6.14 | 1.77 | 645 | 772 | 6.77 | 1.46 | 1 | 0 | 0.00 | -0.12 |
| EUROPE | 31 411 | 35 429 | 4.03 | 1.33 | 14 879 | 11 950 | 3.31 | -2.65 | 13 258 | 15 454 | 7.10 | 1.68 |
| European Union ¹ | 15 672 | 16 967 | 1.78 | 0.82 | 11 199 | 8 327 | 3.17 | -3.60 | 2 337 | 2 447 | 1.16 | -0.28 |
| United Kingdom | 1 091 | 1 115 | 1.19 | 0.31 | 1 104 | 1 110 | 1.18 | 0.11 | 284 | 252 | -0.34 | -0.04 |
| Russia | 6 878 | 7 984 | 7.25 | 2.29 | 1 358 | 1 388 | 7.59 | 0.17 | 3 792 | 4 606 | 10.74 | 3.13 |
| Ukraine | 6 876 | 8 403 | 7.47 | 1.67 | 281 | 212 | -1.75 | -1.64 | 6 373 | 7 648 | 8.33 | 1.67 |
| AFRICA | 8 711 | 10 136 | 3.28 | 1.37 | 11 468 | 15 137 | 3.32 | 2.59 | 1 531 | 1 211 | 0.41 | -2.47 |
| Egypt | 832 | 1 113 | 9.74 | 2.49 | 1 806 | 2 001 | 0.44 | 0.94 | 138 | 124 | -12.21 | -0.93 |
| Ethiopia | 60 | 68 | 4.06 | 1.58 | 517 | 779 | 7.24 | 4.09 | 0 | 0 | .. | .. |
| Nigeria | 1 908 | 2 247 | 3.48 | 1.22 | 1 432 | 2 138 | 3.30 | 3.66 | 89 | 70 | -7.07 | -3.14 |
| South Africa | 564 | 656 | 5.62 | 1.37 | 871 | 1 053 | 0.64 | 1.70 | 17 | 17 | -20.12 | -1.03 |
| ASIA | 125 159 | 147 966 | 3.73 | 1.31 | 49 477 | 59 225 | 3.18 | 1.73 | 55 085 | 60 793 | 2.32 | 0.85 |
| China ² | 27 215 | 32 879 | 4.13 | 1.43 | 10 915 | 10 419 | 1.16 | 0.00 | 266 | 298 | 7.63 | 0.00 |
| India | 9 357 | 11 248 | 0.82 | 1.32 | 14 795 | 21 029 | 4.15 | 3.36 | 71 | 51 | -9.30 | -0.55 |
| Indonesia | 49 937 | 60 415 | 6.09 | 1.43 | 143 | 109 | 6.63 | 0.02 | 31 833 | 36 687 | 4.40 | 1.03 |
| Iran | 698 | 812 | 16.02 | 1.43 | 1 308 | 1 231 | -3.56 | 0.34 | 17 | 9 | -32.67 | -0.16 |
| Japan | 1 535 | 1 474 | 0.69 | -0.36 | 944 | 992 | 2.70 | 0.21 | 2 | 2 | 2.07 | 0.00 |
| Kazakhstan | 309 | 386 | 4.53 | 1.47 | 170 | 202 | 8.55 | 1.51 | 86 | 63 | 25.32 | -1.49 |
| Korea | 310 | 358 | 0.61 | 1.41 | 1 268 | 1 409 | 5.72 | 0.88 | 3 | 3 | -8.92 | 0.00 |
| Malaysia | 21 897 | 24 141 | 0.34 | 0.94 | 1 782 | 1 775 | 0.11 | -0.78 | 18 992 | 19 814 | -0.31 | 0.79 |
| Pakistan | 1 713 | 1 928 | -0.18 | 1.59 | 3 391 | 4 374 | 4.60 | 2.20 | 77 | 56 | -7.76 | -2.08 |
| Philippines | 1 938 | 2 325 | 0.62 | 1.09 | 1 284 | 1 501 | 11.71 | 1.49 | 1 027 | 920 | 1.02 | -1.47 |
| Saudi Arabia | 143 | 164 | 36.39 | 1.13 | 885 | 1 098 | 8.85 | 2.03 | 55 | 44 | 44.75 | -1.99 |
| Thailand | 4 128 | 5 132 | 8.15 | 1.62 | 305 | 233 | 0.83 | -2.83 | 510 | 804 | 2.05 | 3.47 |
| Turkey | 1 973 | 2 096 | 3.98 | 1.20 | 1 569 | 1 774 | 1.68 | 0.16 | 547 | 545 | -1.11 | -0.16 |
| Viet Nam | 673 | 747 | 5.33 | 1.15 | 1 125 | 1 415 | 5.72 | 1.52 | 159 | 133 | 4.00 | -1.50 |
| OCEANIA | 1 263 | 1 518 | 1.32 | 1.35 | 350 | 359 | 4.14 | 0.31 | 878 | 1 001 | 1.84 | 0.88 |
| Australia | 469 | 614 | 1.03 | 1.84 | 225 | 220 | 5.65 | -0.03 | 175 | 219 | 3.04 | 0.92 |
| New Zealand | 5 | 4 | 0.57 | 0.00 | 97 | 113 | 2.69 | 1.33 | 0 | 0 | .. | .. |
| DEVELOPED COUNTRIES | 53 357 | 59 095 | 3.68 | 1.14 | 22 626 | 20 289 | 3.28 | -1.47 | 18 492 | 21 198 | 5.97 | 1.72 |
| DEVELOPING COUNTRIES | 159 532 | 187 846 | 3.66 | 1.34 | 63 268 | 76 630 | 3.09 | 1.83 | 68 755 | 75 721 | 2.45 | 0.86 |
| LEAST DEVELOPED COUNTRIES (LDC) | 3 904 | 4 439 | 1.85 | 1.37 | 7 392 | 10 301 | 5.64 | 3.09 | 545 | 400 | 7.25 | -3.45 |
| OECD³ | 43 539 | 47 403 | 2.77 | 0.92 | 24 329 | 22 286 | 3.32 | -1.32 | 9 318 | 9 942 | 3.39 | 0.92 |
| BRICS | 54 141 | 65 460 | 3.73 | 1.69 | 28 420 | 34 381 | 2.86 | 2.00 | 5 495 | 7 728 | 4.93 | 4.40 |

.. Not available

Note: Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.21.2. Vegetable oil projections: Consumption, food

Marketing year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | | FOOD (kg/cap) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|--------------|--------------------|-------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 213 625 | 246 628 | 3.87 | 1.33 | 18.5 | 19.9 | 2.25 | 0.76 |
| NORTH AMERICA | 18 316 | 19 406 | 3.45 | 0.45 | 39.1 | 40.0 | 1.62 | 0.07 |
| Canada | 1 548 | 1 733 | 5.87 | 0.89 | 37.8 | 38.7 | 4.05 | 0.18 |
| United States | 16 769 | 17 673 | 3.25 | 0.41 | 39.2 | 40.1 | 1.39 | 0.06 |
| LATIN AMERICA | 21 312 | 24 267 | 2.64 | 1.27 | 19.1 | 20.6 | 0.40 | 0.73 |
| Argentina | 2 949 | 3 187 | -0.84 | 1.34 | 19.3 | 22.0 | 0.36 | 1.18 |
| Brazil | 9 237 | 10 429 | 4.49 | 1.18 | 23.9 | 25.9 | 0.03 | 0.91 |
| Chile | 587 | 660 | 4.62 | 0.87 | 11.0 | 11.8 | 2.76 | 0.75 |
| Colombia | 1 733 | 2 138 | 2.71 | 1.84 | 19.0 | 23.3 | 1.32 | 1.81 |
| Mexico | 3 014 | 3 531 | 2.84 | 1.43 | 23.6 | 25.1 | 1.61 | 0.56 |
| Paraguay | 125 | 135 | -4.24 | 0.73 | 16.5 | 15.7 | -5.19 | -0.36 |
| Peru | 933 | 1 131 | 6.51 | 1.58 | 11.0 | 12.1 | 4.52 | 0.90 |
| EUROPE | 33 106 | 31 920 | 2.74 | -0.48 | 26.3 | 26.8 | 3.38 | 0.36 |
| European Union ¹ | 24 586 | 22 845 | 2.56 | -0.92 | 26.4 | 26.1 | 3.53 | 0.03 |
| United Kingdom | 1 911 | 1 972 | 1.34 | 0.24 | 28.3 | 28.0 | 0.69 | -0.12 |
| Russia | 4 444 | 4 766 | 4.92 | 0.93 | 30.5 | 33.2 | 4.73 | 1.13 |
| Ukraine | 809 | 963 | -0.48 | 1.08 | 13.8 | 17.4 | -0.37 | 1.67 |
| AFRICA | 18 669 | 24 047 | 3.64 | 2.39 | 9.5 | 10.0 | 0.71 | 0.71 |
| Egypt | 2 530 | 2 988 | 5.01 | 1.59 | 8.2 | 9.1 | 1.88 | 1.35 |
| Ethiopia | 578 | 847 | 6.90 | 3.87 | 4.8 | 5.5 | 4.05 | 1.68 |
| Nigeria | 3 232 | 4 312 | 3.47 | 2.48 | 10.4 | 11.0 | 0.73 | 0.33 |
| South Africa | 1 429 | 1 691 | 3.21 | 1.63 | 13.4 | 14.9 | 1.71 | 1.29 |
| ASIA | 121 485 | 146 111 | 4.54 | 1.73 | 18.1 | 20.5 | 2.95 | 1.28 |
| China ² | 38 699 | 42 950 | 3.79 | 1.05 | 27.0 | 29.4 | 3.27 | 0.91 |
| India | 24 324 | 32 197 | 3.08 | 2.63 | 10.8 | 14.1 | 1.31 | 2.64 |
| Indonesia | 18 503 | 23 686 | 9.98 | 2.27 | 26.2 | 33.0 | 9.39 | 2.17 |
| Iran | 2 005 | 2 034 | 2.68 | 0.77 | 11.2 | 10.6 | 0.48 | 0.27 |
| Japan | 2 440 | 2 464 | 1.40 | -0.14 | 19.2 | 20.4 | 1.57 | 0.34 |
| Kazakhstan | 398 | 524 | 4.27 | 1.98 | 20.4 | 24.2 | 2.73 | 1.10 |
| Korea | 1 573 | 1 764 | 4.73 | 0.99 | 18.3 | 21.2 | 2.76 | 1.94 |
| Malaysia | 5 233 | 6 076 | 3.51 | 1.24 | 26.3 | 27.2 | 2.49 | 0.48 |
| Pakistan | 5 026 | 6 239 | 3.16 | 2.09 | 18.0 | 19.0 | 1.02 | 0.65 |
| Philippines | 2 240 | 2 902 | 5.79 | 2.32 | 13.5 | 15.8 | 5.21 | 1.35 |
| Saudi Arabia | 963 | 1 216 | 9.84 | 2.14 | 22.5 | 25.6 | 7.38 | 1.31 |
| Thailand | 3 882 | 4 554 | 8.87 | 1.12 | 13.8 | 17.5 | 8.18 | 2.09 |
| Turkey | 2 982 | 3 322 | 3.86 | 0.94 | 26.2 | 26.6 | 1.79 | 0.26 |
| Viet Nam | 1 641 | 2 028 | 5.71 | 1.64 | 2.6 | 3.6 | 3.96 | 2.83 |
| OCEANIA | 737 | 876 | 2.12 | 1.47 | 17.3 | 18.1 | 0.99 | 0.33 |
| Australia | 517 | 615 | 2.41 | 1.45 | 20.5 | 21.8 | 1.02 | 0.46 |
| New Zealand | 101 | 117 | 2.58 | 1.28 | 21.2 | 22.6 | 1.59 | 0.58 |
| DEVELOPED COUNTRIES | 57 598 | 58 178 | 2.90 | -0.03 | 27.4 | 28.2 | 2.44 | 0.29 |
| DEVELOPING COUNTRIES | 156 027 | 188 450 | 4.24 | 1.79 | 16.5 | 18.1 | 2.30 | 1.02 |
| LEAST DEVELOPED COUNTRIES (LDC) | 10 791 | 14 331 | 4.17 | 2.79 | 8.4 | 9.4 | 1.22 | 1.29 |
| OECD³ | 58 616 | 59 739 | 2.93 | 0.03 | 28.0 | 28.8 | 2.21 | 0.27 |
| BRICS | 78 134 | 92 033 | 3.69 | 1.60 | 19.8 | 22.3 | 2.46 | 1.24 |

Note: Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.22. Main policy assumptions for oilseed markets

Marketing year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-------------------------------------|------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ARGENTINA | | | | | | | | | | | | |
| Export tax | | | | | | | | | | | | |
| Soybean | % | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Other oilseeds | % | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| Soybean meal | % | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Soybean oil | % | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| AUSTRALIA | | | | | | | | | | | | |
| Tariffs | | | | | | | | | | | | |
| Soybean oil | % | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| Rapeseed oil | % | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| CANADA | | | | | | | | | | | | |
| Tariffs | | | | | | | | | | | | |
| Rapeseed oil | % | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| EUROPEAN UNION^{1,2} | | | | | | | | | | | | |
| Voluntary coupled support | | | | | | | | | | | | |
| Soybean | mln EUR | 33 | 34 | 35 | 36 | 36 | 36 | 37 | 37 | 39 | 39 | 40 |
| Tariffs | | | | | | | | | | | | |
| Soybean oil | % | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Rapeseed oil | % | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| JAPAN | | | | | | | | | | | | |
| New output payments | | | | | | | | | | | | |
| Soybean | JPY/kg | 156.1 | 165.5 | 165.5 | 165.5 | 165.5 | 165.5 | 165.5 | 165.5 | 165.5 | 165.5 | 165.5 |
| Tariffs | | | | | | | | | | | | |
| Soybean oil | JPY/kg | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| Rapeseed oil | JPY/kg | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| KOREA | | | | | | | | | | | | |
| Soybean tariff-quota | kt | 1 032 | 1 032 | 1 032 | 1 032 | 1 032 | 1 032 | 1 032 | 1 032 | 1 032 | 1 032 | 1 032 |
| In-quota tariff | % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Out-of-quota tariff | % | 487 | 487 | 487 | 487 | 487 | 487 | 487 | 487 | 487 | 487 | 487 |
| Soybean (for food) mark up | '000 KRW/t | 131 | 131 | 131 | 131 | 131 | 131 | 131 | 131 | 131 | 131 | 131 |
| MEXICO | | | | | | | | | | | | |
| Tariffs | | | | | | | | | | | | |
| Soybean | % | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| Soybean meal | % | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 |
| Soybean oil | % | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| UNITED STATES | | | | | | | | | | | | |
| ARC participation rate | | | | | | | | | | | | |
| Soybean | % | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 |
| Soybean loan rate | USD/t | 213.1 | 227.8 | 227.8 | 227.8 | 227.8 | 227.8 | 227.8 | 227.8 | 227.8 | 227.8 | 227.8 |
| Tariffs | | | | | | | | | | | | |
| Rapeseed | % | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Soybean meal | % | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| Rapeseed meal | % | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| Soybean oil | % | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 |
| Rapeseed oil | % | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| CHINA | | | | | | | | | | | | |
| Tariffs | | | | | | | | | | | | |
| Soybean | % | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| Soybean meal | % | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| Soybean oil in-quota tariff | % | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| Vegetable oil tariff-quota | kt | 7 998.1 | 7 998.1 | 7 998.1 | 7 998.1 | 7 998.1 | 7 998.1 | 7 998.1 | 7 998.1 | 7 998.1 | 7 998.1 | 7 998.1 |
| INDIA | | | | | | | | | | | | |
| Soybean tariff | % | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Rapeseed tariff | % | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Soybean meal tariff | % | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| Soybean oil tariff | % | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 |
| INDONESIA | | | | | | | | | | | | |
| Protein meal tariff | % | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| PAKISTAN | | | | | | | | | | | | |
| Protein meal tariff | % | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 |
| VIET NAM | | | | | | | | | | | | |
| Protein meal tariff | % | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated. The sources for tariffs and Tariff Rate Quotas are the national questionnaire reply, UNCTAD and WTO.

- Since 2015 the Basic payment scheme (BPS) holds, which shall account for 68% maximum of the national direct payment envelopes. On top of this, compulsory policy instruments have been introduced: the Green Payment (30%) and young farmer scheme (2%).
- Refers to all current European Union member States (excludes the United Kingdom)

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.23.1. Sugar projections: Production and trade

Marketing year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|--------------------|---------------|-------------------------|--------------|--------------------|---------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 172 878 | 200 288 | 0.33 | 1.40 | 59 205 | 67 480 | 1.35 | 1.62 | 62 357 | 70 424 | 1.22 | 1.55 |
| NORTH AMERICA | 7 440 | 8 134 | 0.50 | 0.39 | 4 069 | 4 401 | -0.92 | 1.27 | 103 | 80 | -12.92 | 0.00 |
| Canada | 109 | 135 | 0.40 | 0.19 | 1 298 | 1 231 | 1.16 | 1.03 | 69 | 50 | 5.31 | 0.00 |
| United States | 7 331 | 7 999 | 0.50 | 0.40 | 2 771 | 3 170 | -1.79 | 1.37 | 35 | 30 | -23.07 | 0.00 |
| LATIN AMERICA | 55 457 | 63 685 | -0.35 | 1.40 | 1 924 | 1 684 | -2.30 | -1.29 | 31 926 | 39 318 | 0.10 | 1.84 |
| Argentina | 1 666 | 2 051 | -1.53 | 1.44 | 0 | 0 | .. | .. | 285 | 742 | 4.77 | 3.79 |
| Brazil | 35 129 | 40 952 | -0.43 | 1.59 | 1 | 0 | -29.22 | .. | 24 464 | 30 272 | 0.16 | 1.90 |
| Chile | 193 | 219 | -4.60 | 2.05 | 520 | 540 | 1.30 | -0.47 | 0 | 0 | .. | .. |
| Colombia | 2 244 | 2 462 | 0.65 | 1.47 | 193 | 75 | -4.21 | -4.33 | 628 | 535 | -2.79 | 4.52 |
| Mexico | 5 921 | 6 118 | -0.01 | 0.04 | 14 | 10 | -9.00 | -0.22 | 1 839 | 2 143 | -0.54 | 0.15 |
| Paraguay | 156 | 191 | -0.57 | 3.53 | 52 | 69 | 97.60 | -2.39 | 81 | 110 | 2.67 | 2.44 |
| Peru | 1 187 | 1 412 | 0.42 | 1.46 | 287 | 310 | 4.62 | -0.39 | 130 | 113 | 7.12 | 0.39 |
| EUROPE | 25 946 | 26 701 | -0.11 | 0.56 | 4 251 | 3 468 | -5.22 | -2.25 | 3 148 | 3 625 | 0.58 | 5.42 |
| European Union ¹ | 15 660 | 16 202 | -0.75 | 0.33 | 2 255 | 1 561 | -5.70 | -2.90 | 1 390 | 1 812 | -4.54 | 5.80 |
| United Kingdom | 1 138 | 1 028 | -1.95 | 0.04 | 1 020 | 1 136 | -1.60 | -0.12 | 318 | 293 | 0.76 | -0.07 |
| Russia | 6 441 | 6 611 | 4.11 | 0.57 | 185 | 85 | -62.06 | -1.94 | 780 | 844 | 97.92 | 7.33 |
| Ukraine | 1 383 | 1 236 | -5.61 | 2.03 | 34 | 26 | -22.45 | -18.27 | 229 | 151 | 10.61 | 22.36 |
| AFRICA | 11 099 | 15 072 | 1.36 | 2.92 | 14 526 | 17 334 | 2.80 | 2.18 | 5 452 | 4 221 | 2.97 | -0.53 |
| Egypt | 2 466 | 3 766 | 3.13 | 3.85 | 1 041 | 994 | -4.32 | -0.89 | 270 | 433 | -2.54 | 0.90 |
| Ethiopia | 440 | 707 | 6.44 | 3.74 | 262 | 365 | 17.18 | 3.61 | 37 | 23 | 245.51 | -6.49 |
| Nigeria | 20 | 0 | 4.06 | .. | 1 630 | 1 750 | 3.33 | 2.17 | 0 | 0 | -47.76 | .. |
| South Africa | 2 202 | 2 905 | 0.52 | 3.23 | 380 | 64 | -8.28 | -5.42 | 1 139 | 1 404 | 9.51 | 5.73 |
| ASIA | 68 491 | 82 010 | 0.81 | 1.58 | 34 083 | 40 245 | 2.45 | 2.00 | 18 432 | 19 579 | 3.14 | 1.09 |
| China ² | 10 556 | 11 809 | -1.98 | 0.89 | 5 446 | 5 964 | 1.64 | 2.54 | 109 | 70 | 10.22 | 0.00 |
| India | 30 527 | 35 617 | 2.31 | 1.40 | 1 344 | 1 506 | 8.59 | 1.25 | 6 194 | 5 369 | 13.25 | -1.23 |
| Indonesia | 2 189 | 2 368 | -2.16 | 0.79 | 5 364 | 7 641 | 7.51 | 3.81 | 1 | 0 | 53.72 | .. |
| Iran | 1 640 | 2 170 | 5.14 | 2.35 | 1 060 | 622 | -3.86 | -2.33 | 0 | 0 | -75.44 | .. |
| Japan | 714 | 703 | 0.73 | 0.00 | 1 374 | 1 227 | -0.35 | -0.74 | 4 | 5 | 21.39 | 0.00 |
| Kazakhstan | 52 | 0 | 23.82 | .. | 443 | 531 | 1.03 | 0.56 | 9 | 0 | -20.68 | .. |
| Korea | 0 | 0 | .. | .. | 1 928 | 2 057 | 0.92 | 0.33 | 312 | 367 | -0.66 | 1.45 |
| Malaysia | 0 | 0 | -81.53 | .. | 1 996 | 2 397 | 0.51 | 1.28 | 175 | 175 | -6.88 | -1.27 |
| Pakistan | 5 486 | 7 534 | 1.80 | 2.32 | 311 | 151 | 33.29 | -4.35 | 483 | 808 | 2.12 | 4.75 |
| Philippines | 2 124 | 2 476 | -1.49 | 1.31 | 115 | 43 | 398.31 | -0.46 | 179 | 371 | -4.12 | 0.47 |
| Saudi Arabia | 0 | 0 | .. | .. | 1 767 | 1 958 | 3.66 | 1.07 | 494 | 426 | 12.71 | -1.06 |
| Thailand | 10 308 | 13 551 | -0.58 | 2.40 | 11 | 0 | 63.90 | .. | 7 913 | 10 187 | 0.89 | 3.05 |
| Turkey | 2 506 | 3 142 | 2.24 | 1.47 | 244 | 244 | 64.37 | -4.06 | 175 | 400 | 21.43 | 4.23 |
| Viet Nam | 1 037 | 1 142 | -4.11 | 1.88 | 594 | 634 | 18.51 | 2.05 | 229 | 127 | 7.48 | -2.01 |
| OCEANIA | 4 446 | 4 687 | 0.37 | 0.42 | 352 | 348 | -1.67 | -0.39 | 3 296 | 3 601 | 0.60 | 0.32 |
| Australia | 4 234 | 4 400 | 0.49 | 0.27 | 19 | 20 | -23.87 | 0.00 | 3 131 | 3 404 | 0.73 | 0.28 |
| New Zealand | 0 | 0 | .. | .. | 251 | 243 | 1.05 | -0.09 | 25 | 19 | 0.83 | 0.00 |
| DEVELOPED COUNTRIES | 40 764 | 43 048 | 0.17 | 0.66 | 12 730 | 12 313 | -2.62 | -0.15 | 7 757 | 8 716 | 0.95 | 2.94 |
| DEVELOPING COUNTRIES | 132 114 | 157 240 | 0.37 | 1.61 | 46 475 | 55 167 | 2.69 | 2.06 | 54 600 | 61 707 | 1.24 | 1.36 |
| LEAST DEVELOPED COUNTRIES (LDC) | 4 022 | 5 333 | 2.35 | 2.52 | 9 422 | 12 972 | 4.86 | 3.79 | 2 638 | 817 | 1.70 | -6.70 |
| OECD³ | 40 289 | 42 686 | -0.10 | 0.43 | 12 568 | 12 358 | -1.49 | -0.10 | 7 929 | 9 063 | -0.88 | 1.58 |
| BRICS | 84 854 | 97 895 | 0.64 | 1.41 | 7 355 | 7 619 | 0.56 | 2.11 | 32 686 | 37 960 | 2.24 | 1.59 |

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated. Sugar data are expressed on a t equivalent basis.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.23.2. Sugar projections: Consumption, per capita

Marketing year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | | PER CAPITA (kg/cap) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|---------------------|-------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 168 965 | 195 923 | 0.83 | 1.37 | 22.0 | 23.0 | -0.29 | 0.45 |
| NORTH AMERICA | 11 417 | 12 443 | 0.41 | 0.63 | 30.2 | 30.7 | -0.03 | 0.03 |
| Canada | 1 264 | 1 314 | 0.96 | 0.22 | 24.6 | 21.3 | 1.91 | -1.15 |
| United States | 10 153 | 11 129 | 0.35 | 0.68 | 30.9 | 31.8 | -0.16 | 0.13 |
| LATIN AMERICA | 24 905 | 25 927 | -1.03 | 0.38 | 38.5 | 36.8 | -2.01 | -0.37 |
| Argentina | 1 282 | 1 308 | -3.59 | 0.32 | 28.6 | 26.7 | -4.55 | -0.49 |
| Brazil | 10 310 | 10 637 | -1.79 | 0.35 | 48.9 | 47.5 | -2.59 | -0.15 |
| Chile | 747 | 758 | -0.26 | 0.20 | 39.5 | 39.0 | -1.45 | 0.08 |
| Colombia | 1 833 | 1 997 | 1.28 | 0.51 | 36.4 | 37.4 | 0.03 | 0.06 |
| Mexico | 4 052 | 3 982 | -0.50 | -0.13 | 31.8 | 28.3 | -1.69 | -0.99 |
| Paraguay | 134 | 150 | 0.80 | 1.01 | 19.0 | 18.9 | -0.52 | -0.06 |
| Peru | 1 378 | 1 590 | 2.63 | 1.11 | 42.4 | 44.1 | 1.24 | 0.25 |
| EUROPE | 27 443 | 26 540 | -0.55 | -0.29 | 36.7 | 35.8 | -0.70 | -0.19 |
| European Union ¹ | 16 731 | 15 950 | -0.63 | -0.41 | 37.6 | 36.1 | -0.76 | -0.32 |
| United Kingdom | 1 887 | 1 871 | -1.08 | -0.03 | 27.9 | 26.5 | -1.72 | -0.39 |
| Russia | 5 911 | 5 854 | 0.87 | -0.10 | 40.5 | 40.8 | 0.69 | 0.10 |
| Ukraine | 1 247 | 1 112 | -5.54 | -0.49 | 28.3 | 27.2 | -5.10 | 0.20 |
| AFRICA | 19 835 | 27 761 | 2.23 | 3.09 | 15.3 | 16.6 | -0.35 | 0.75 |
| Egypt | 3 191 | 4 249 | 0.88 | 2.77 | 31.8 | 35.2 | -1.25 | 1.10 |
| Ethiopia | 654 | 1 031 | 6.54 | 4.15 | 5.8 | 7.1 | 3.69 | 1.78 |
| Nigeria | 1 295 | 1 685 | -0.13 | 2.71 | 6.4 | 6.4 | -2.72 | 0.25 |
| South Africa | 1 470 | 1 561 | -3.56 | 0.94 | 25.1 | 23.7 | -4.96 | -0.11 |
| ASIA | 84 016 | 101 808 | 1.68 | 1.78 | 18.4 | 20.6 | 0.70 | 1.09 |
| China ² | 15 973 | 17 684 | 1.42 | 1.12 | 11.1 | 12.1 | 0.91 | 0.97 |
| India | 25 559 | 31 377 | 1.47 | 1.87 | 18.7 | 20.9 | 0.36 | 1.01 |
| Indonesia | 7 160 | 9 936 | 3.41 | 3.02 | 26.5 | 33.2 | 2.15 | 2.11 |
| Iran | 2 478 | 2 787 | 0.49 | 1.11 | 29.9 | 30.1 | -0.84 | 0.15 |
| Japan | 2 040 | 1 925 | -1.04 | -0.48 | 16.1 | 15.9 | -0.86 | 0.00 |
| Kazakhstan | 491 | 530 | 0.78 | 0.65 | 26.5 | 25.7 | -0.68 | -0.27 |
| Korea | 1 627 | 1 693 | 1.40 | 0.19 | 31.8 | 33.1 | 1.07 | 0.23 |
| Malaysia | 1 859 | 2 206 | 2.65 | 1.51 | 58.2 | 61.1 | 1.27 | 0.43 |
| Pakistan | 5 394 | 6 820 | 2.40 | 2.01 | 24.9 | 25.9 | 0.30 | 0.27 |
| Philippines | 1 853 | 2 139 | -1.76 | 1.42 | 17.1 | 17.3 | -3.24 | 0.21 |
| Saudi Arabia | 1 260 | 1 523 | 2.33 | 1.75 | 36.8 | 38.7 | 0.00 | 0.56 |
| Thailand | 3 058 | 3 325 | 1.42 | 0.62 | 43.9 | 47.3 | 1.05 | 0.55 |
| Turkey | 2 716 | 2 939 | 2.25 | 0.56 | 32.6 | 33.0 | 0.66 | 0.04 |
| Viet Nam | 1 384 | 1 627 | -0.09 | 2.13 | 14.4 | 15.6 | -1.10 | 1.45 |
| OCEANIA | 1 349 | 1 444 | 0.01 | 0.40 | 32.7 | 30.7 | -1.43 | -0.76 |
| Australia | 984 | 1 030 | -0.77 | 0.18 | 39.1 | 36.6 | -2.12 | -0.80 |
| New Zealand | 225 | 224 | 0.53 | -0.10 | 47.0 | 43.3 | -0.44 | -0.79 |
| DEVELOPED COUNTRIES | 46 047 | 46 627 | -0.34 | 0.09 | 32.0 | 31.5 | -0.71 | -0.12 |
| DEVELOPING COUNTRIES | 122 919 | 149 295 | 1.30 | 1.80 | 19.7 | 21.2 | -0.01 | 0.72 |
| LEAST DEVELOPED COUNTRIES (LDC) | 10 725 | 17 226 | 4.59 | 4.21 | 12.3 | 15.6 | 2.19 | 1.99 |
| OECD³ | 45 227 | 45 931 | -0.08 | 0.09 | 32.3 | 31.7 | -0.58 | -0.20 |
| BRICS | 59 223 | 67 113 | 0.62 | 1.21 | 18.4 | 19.7 | -0.16 | 0.73 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated. Sugar data are expressed on a t equivalent basis.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.24. Main policy assumptions for sugar markets

Marketing year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|--|---------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ARGENTINA | | | | | | | | | | | | |
| Tariff, sugar | ARS/t | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| BRAZIL | | | | | | | | | | | | |
| Tariff, raw sugar | % | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| Tariff, white sugar | % | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| CANADA | | | | | | | | | | | | |
| Tariff, raw sugar | CAD/t | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 |
| Tariff, white sugar | CAD/t | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 |
| CHINA¹ | | | | | | | | | | | | |
| TRQ sugar | kt | 1 954.0 | 1 954.0 | 1 954.0 | 1 954.0 | 1 954.0 | 1 954.0 | 1 954.0 | 1 954.0 | 1 954.0 | 1 954.0 | 1 954.0 |
| In-quota tariff, raw sugar | % | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| In-quota tariff, white sugar | % | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 |
| Tariff, over-quota | % | 85.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| EUROPEAN UNION² | | | | | | | | | | | | |
| Voluntary coupled support | | | | | | | | | | | | |
| Sugarbeet ³ | mIn EUR | 176.2 | 169.3 | 169.3 | 169.3 | 169.3 | 169.3 | 169.3 | 169.3 | 169.3 | 169.3 | 169.3 |
| Tariff, raw sugar | EUR/t | 339.0 | 339.0 | 339.0 | 339.0 | 339.0 | 339.0 | 339.0 | 339.0 | 339.0 | 339.0 | 339.0 |
| Tariff, white sugar | EUR/t | 419.0 | 419.0 | 419.0 | 419.0 | 419.0 | 419.0 | 419.0 | 419.0 | 419.0 | 419.0 | 419.0 |
| INDIA | | | | | | | | | | | | |
| Tariff, sugar | % | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| INDONESIA | | | | | | | | | | | | |
| Tariff, sugar | % | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 |
| JAPAN | | | | | | | | | | | | |
| Minimum stabilisation price, raw sugar | JPY/kg | 153.2 | 153.2 | 153.2 | 153.2 | 153.2 | 153.2 | 153.2 | 153.2 | 153.2 | 153.2 | 153.2 |
| Tariff, raw sugar | JPY/kg | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 |
| Tariff, white sugar | JPY/kg | 103.1 | 103.1 | 103.1 | 103.1 | 103.1 | 103.1 | 103.1 | 103.1 | 103.1 | 103.1 | 103.1 |
| KOREA | | | | | | | | | | | | |
| Tariff, raw sugar | % | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Tariff, white sugar | % | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| MEXICO | | | | | | | | | | | | |
| Mexico common external tariff, raw sugar | USD/t | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 |
| Mexico common external tariff, white sugar | USD/t | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 |
| RUSSIA | | | | | | | | | | | | |
| Minimum tariff, raw sugar | USD/t | 253.3 | 240.0 | 240.0 | 203.0 | 203.0 | 203.0 | 203.0 | 171.0 | 171.0 | 171.0 | 171.0 |
| Minimum tariff, white sugar | USD/t | 340.0 | 340.0 | 340.0 | 340.0 | 340.0 | 340.0 | 340.0 | 340.0 | 340.0 | 340.0 | 340.0 |
| UNITED STATES | | | | | | | | | | | | |
| Loan rate, raw sugar | USD/t | 435.4 | 435.4 | 435.4 | 435.4 | 435.4 | 435.4 | 435.4 | 435.4 | 435.4 | 435.4 | 435.4 |
| Loan rate, white sugar | USD/t | 531.1 | 531.1 | 531.1 | 531.1 | 531.1 | 531.1 | 531.1 | 531.1 | 531.1 | 531.1 | 531.1 |
| TRQ, raw sugar | kt rse | 1 646 | 1 696 | 1 699 | 1 703 | 1 706 | 1 710 | 1 713 | 1 716 | 1 720 | 1 720 | 1 720 |
| TRQ, refined sugar | kt rse | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 |
| Raw sugar 2nd tier WTO tariff | USD/t | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 |
| White sugar 2nd tier WTO tariff | USD/t | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 | 357.4 |
| VIET NAM | | | | | | | | | | | | |
| Tariff, sugar | % | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated. The sources for tariffs and Tariff Rate Quotas are the national questionnaire reply, UNCTAD and WTO.

1. Refers to mainland only.
2. Refers to all current European Union member States (excludes the United Kingdom)
3. Implemented in 11 Member States.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.25.1. Meat projections: Production and trade

Calendar year

| | PRODUCTION (kt cwe) ⁴ | | Growth (%) ⁵ | | IMPORTS (kt cwe) ⁶ | | Growth (%) ⁵ | | EXPORTS (kt cwe) ⁶ | | Growth (%) ⁵ | |
|---------------------------------|----------------------------------|----------------|-------------------------|-------------|-------------------------------|---------------|-------------------------|--------------|-------------------------------|---------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 330 027 | 373 830 | 1.42 | 1.16 | 34 450 | 38 015 | 3.20 | 0.95 | 36 876 | 39 751 | 2.91 | 0.88 |
| NORTH AMERICA | 51 543 | 56 085 | 1.73 | 0.73 | 2 700 | 2 889 | 2.89 | 0.84 | 10 012 | 10 738 | 1.64 | 0.40 |
| Canada | 5 037 | 5 568 | 1.45 | 0.83 | 652 | 725 | -0.66 | 0.58 | 2 098 | 2 344 | 2.21 | 0.62 |
| United States | 46 506 | 50 517 | 1.76 | 0.72 | 2 048 | 2 165 | 4.28 | 0.93 | 7 914 | 8 393 | 1.50 | 0.34 |
| LATIN AMERICA | 54 202 | 61 837 | 1.69 | 1.21 | 4 711 | 5 451 | 4.21 | 1.48 | 9 564 | 11 834 | 3.70 | 2.21 |
| Argentina | 6 001 | 6 760 | 2.73 | 1.07 | 50 | 37 | -1.83 | 1.06 | 937 | 1 245 | 9.54 | 1.70 |
| Brazil | 27 280 | 30 502 | 1.20 | 0.97 | 52 | 56 | 0.69 | -0.20 | 6 597 | 8 297 | 2.63 | 2.77 |
| Chile | 1 559 | 1 866 | 1.16 | 1.49 | 584 | 598 | 10.32 | 0.18 | 438 | 562 | 5.89 | 0.91 |
| Colombia | 2 890 | 3 273 | 3.42 | 1.53 | 235 | 448 | 12.73 | 7.01 | 32 | 3 | 8.07 | -19.02 |
| Mexico | 7 163 | 8 431 | 2.63 | 1.44 | 2 147 | 2 186 | 4.56 | 0.09 | 475 | 459 | 9.98 | -1.47 |
| Paraguay | 600 | 767 | 5.77 | 2.60 | 39 | 43 | 3.93 | 1.79 | 352 | 490 | 5.94 | 3.15 |
| Peru | 2 143 | 2 916 | 4.78 | 2.88 | 97 | 93 | 14.34 | -0.12 | 2 | 0 | -22.57 | .. |
| EUROPE | 63 675 | 63 776 | 1.70 | -0.03 | 5 052 | 5 148 | -3.79 | 0.82 | 9 311 | 9 314 | 4.53 | 0.22 |
| European Union ¹ | 44 301 | 43 179 | 1.19 | -0.20 | 1 502 | 1 640 | -0.91 | 1.38 | 7 028 | 6 967 | 3.82 | 0.41 |
| United Kingdom | 3 952 | 3 831 | 1.69 | -0.61 | 1 787 | 2 093 | 1.05 | 1.94 | 870 | 695 | 2.04 | -2.07 |
| Russia | 10 377 | 11 146 | 4.63 | 0.48 | 748 | 425 | -15.06 | -4.16 | 438 | 527 | 32.12 | 1.00 |
| Ukraine | 2 234 | 2 696 | 1.05 | 1.19 | 414 | 324 | 0.54 | -0.61 | 445 | 550 | 20.06 | 0.71 |
| AFRICA | 18 194 | 22 851 | 2.42 | 2.20 | 2 925 | 4 321 | 3.13 | 5.19 | 326 | 212 | 2.32 | -3.37 |
| Egypt | 2 255 | 3 021 | 2.36 | 2.95 | 352 | 411 | 7.46 | 4.26 | 5 | 4 | 3.95 | -0.67 |
| Ethiopia | 691 | 864 | 1.64 | 2.55 | 1 | 2 | 14.60 | 7.44 | 16 | 14 | -0.32 | 1.88 |
| Nigeria | 1 231 | 1 283 | 1.61 | 0.67 | 17 | 35 | 13.35 | 14.97 | 0 | 0 | .. | .. |
| South Africa | 3 340 | 4 291 | 2.44 | 2.23 | 585 | 569 | 3.01 | 1.37 | 146 | 120 | 0.48 | -2.18 |
| ASIA | 135 879 | 162 053 | 0.96 | 1.66 | 18 630 | 19 699 | 5.76 | 0.11 | 4 867 | 4 522 | 2.99 | 0.19 |
| China ² | 79 320 | 94 975 | -0.35 | 1.42 | 5 497 | 4 503 | 21.08 | -4.66 | 573 | 570 | -3.01 | 1.42 |
| India | 7 656 | 8 117 | 2.50 | 2.26 | 2 | 28 | 0.00 | 42.63 | 1 387 | 644 | -0.47 | -3.28 |
| Indonesia | 4 150 | 4 670 | 6.90 | 2.29 | 230 | 238 | 18.08 | 0.53 | 3 | 1 | -6.83 | -7.19 |
| Iran | 2 963 | 3 450 | 1.49 | 1.71 | 130 | 122 | -8.09 | 8.72 | 59 | 21 | -2.19 | -4.16 |
| Japan | 3 392 | 3 322 | 0.77 | -0.31 | 3 157 | 3 137 | 2.72 | -0.08 | 18 | 21 | 11.21 | 0.58 |
| Kazakhstan | 953 | 1 091 | 3.33 | 1.05 | 293 | 383 | 0.46 | 2.15 | 23 | 23 | 32.87 | -1.21 |
| Korea | 2 562 | 2 653 | 3.29 | 0.19 | 1 433 | 1 598 | 4.58 | 1.11 | 54 | 51 | 4.44 | -1.04 |
| Malaysia | 2 099 | 2 560 | 2.89 | 1.94 | 335 | 501 | 3.94 | 3.95 | 215 | 115 | 6.00 | -5.96 |
| Pakistan | 4 461 | 6 152 | 6.42 | 3.17 | 2 | 2 | -10.25 | 2.61 | 75 | 27 | 4.60 | -11.92 |
| Philippines | 3 397 | 3 378 | 1.25 | 2.03 | 608 | 1 259 | 8.91 | 7.11 | 6 | 6 | -12.50 | -0.91 |
| Saudi Arabia | 859 | 1 320 | 6.79 | 2.47 | 801 | 673 | -3.68 | 0.36 | 60 | 56 | -1.06 | -0.25 |
| Thailand | 3 064 | 3 586 | 1.22 | 1.46 | 27 | 32 | -6.67 | -0.05 | 1 268 | 1 626 | 6.59 | 2.44 |
| Turkey | 3 743 | 4 646 | 4.68 | 1.75 | 93 | 78 | -2.87 | 0.02 | 665 | 962 | 8.85 | 2.73 |
| Viet Nam | 4 909 | 6 831 | 2.28 | 3.10 | 868 | 808 | -3.25 | 7.81 | 75 | 104 | 19.33 | -4.08 |
| OCEANIA | 6 532 | 7 228 | 0.98 | 1.29 | 432 | 507 | 3.43 | 2.08 | 2 796 | 3 132 | 0.22 | 1.36 |
| Australia | 4 949 | 5 641 | 0.84 | 1.62 | 224 | 253 | 1.82 | 1.45 | 1 711 | 2 090 | -0.92 | 2.26 |
| New Zealand | 1 433 | 1 408 | 1.37 | 0.00 | 83 | 100 | 6.18 | 1.99 | 1 082 | 1 040 | 2.20 | -0.24 |
| DEVELOPED COUNTRIES | 132 357 | 139 204 | 1.70 | 0.45 | 12 578 | 13 152 | -0.34 | 0.74 | 22 350 | 23 367 | 2.60 | 0.42 |
| DEVELOPING COUNTRIES | 197 669 | 234 625 | 1.23 | 1.61 | 21 872 | 24 863 | 5.78 | 1.07 | 14 526 | 16 385 | 3.42 | 1.58 |
| LEAST DEVELOPED COUNTRIES (LDC) | 11 876 | 15 677 | 3.56 | 2.69 | 1 216 | 2 175 | 3.03 | 7.70 | 82 | 30 | 13.25 | -6.35 |
| OECD³ | 129 011 | 136 046 | 1.64 | 0.48 | 14 204 | 15 369 | 2.79 | 0.92 | 22 426 | 23 607 | 2.50 | 0.47 |
| BRICS | 127 973 | 149 031 | 0.55 | 1.31 | 6 885 | 5 580 | 6.78 | -4.06 | 9 141 | 10 157 | 2.20 | 2.01 |

.. Not available

Note: Calendar year; except year ending 30 September for New Zealand. Average 2018-20est: Data for 2020 are estimated.

- Refers to all current European Union member States (excludes the United Kingdom)
- Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
- Excludes Iceland and Costa Rica but includes all EU member countries.
- Gross indigenous production.
- Least-squares growth rate (see glossary).
- Excludes trade of live animals.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.25.2. Meat projections: Consumption, food

Calendar year

| | CONSUMPTION (kt cwe) | | Growth (%) ⁴ | | FOOD (kg rwe/cap) ⁵ | | Growth (%) ⁴ | |
|---------------------------------|----------------------|----------------|-------------------------|-------------|--------------------------------|-------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 327 387 | 371 675 | 1.43 | 1.17 | 42.7 | 43.7 | 0.29 | 0.25 |
| NORTH AMERICA | 44 548 | 48 602 | 1.80 | 0.83 | 121.6 | 124.5 | 1.09 | 0.25 |
| Canada | 3 301 | 3 653 | 1.41 | 0.94 | 88.2 | 89.4 | 0.42 | 0.16 |
| United States | 41 247 | 44 949 | 1.83 | 0.82 | 125.3 | 128.6 | 1.15 | 0.27 |
| LATIN AMERICA | 48 808 | 54 852 | 1.54 | 1.04 | 75.5 | 77.9 | 0.54 | 0.28 |
| Argentina | 5 114 | 5 552 | 1.72 | 0.93 | 114.2 | 113.2 | 0.71 | 0.12 |
| Brazil | 20 549 | 22 117 | 0.84 | 0.38 | 97.4 | 98.8 | 0.02 | -0.12 |
| Chile | 1 688 | 1 880 | 2.35 | 1.24 | 89.2 | 96.6 | 1.12 | 1.12 |
| Colombia | 3 049 | 3 657 | 3.89 | 2.16 | 60.6 | 68.5 | 2.61 | 1.70 |
| Mexico | 8 605 | 9 850 | 3.03 | 1.25 | 67.5 | 69.9 | 1.80 | 0.37 |
| Paraguay | 283 | 316 | 5.76 | 1.74 | 40.2 | 39.8 | 4.37 | 0.65 |
| Peru | 2 238 | 3 008 | 5.15 | 2.78 | 68.9 | 83.5 | 3.72 | 1.91 |
| EUROPE | 59 201 | 59 437 | 0.68 | 0.01 | 79.2 | 80.1 | 0.53 | 0.11 |
| European Union ¹ | 38 442 | 37 630 | 0.64 | -0.21 | 86.4 | 85.2 | 0.51 | -0.13 |
| United Kingdom | 4 871 | 5 229 | 1.40 | 0.57 | 72.1 | 74.2 | 0.74 | 0.20 |
| Russia | 10 784 | 11 074 | 0.91 | 0.20 | 73.9 | 77.3 | 0.72 | 0.40 |
| Ukraine | 2 198 | 2 467 | -1.07 | 1.04 | 50.0 | 60.3 | -0.61 | 1.73 |
| AFRICA | 20 850 | 27 025 | 2.55 | 2.70 | 16.1 | 16.2 | -0.05 | 0.37 |
| Egypt | 2 640 | 3 457 | 2.95 | 3.08 | 26.3 | 28.6 | 0.78 | 1.41 |
| Ethiopia | 653 | 847 | 1.87 | 2.88 | 5.8 | 5.8 | -0.85 | 0.54 |
| Nigeria | 1 303 | 1 440 | 1.54 | 1.41 | 6.5 | 5.5 | -1.09 | -1.02 |
| South Africa | 3 742 | 4 659 | 2.33 | 2.31 | 63.9 | 70.6 | 0.84 | 1.25 |
| ASIA | 150 147 | 177 521 | 1.44 | 1.50 | 32.8 | 35.9 | 0.46 | 0.81 |
| China ² | 84 241 | 98 833 | 0.45 | 1.04 | 58.8 | 67.5 | -0.05 | 0.88 |
| India | 6 259 | 7 489 | 3.29 | 2.97 | 4.6 | 5.0 | 2.16 | 2.10 |
| Indonesia | 4 502 | 5 051 | 7.33 | 2.16 | 16.6 | 16.9 | 6.03 | 1.26 |
| Iran | 3 020 | 3 545 | 1.28 | 1.95 | 36.4 | 38.3 | -0.05 | 0.99 |
| Japan | 6 531 | 6 443 | 1.69 | -0.20 | 51.5 | 53.4 | 1.87 | 0.28 |
| Kazakhstan | 1 225 | 1 455 | 2.37 | 1.37 | 66.0 | 70.5 | 0.90 | 0.44 |
| Korea | 3 888 | 4 200 | 3.58 | 0.49 | 75.9 | 82.1 | 3.24 | 0.52 |
| Malaysia | 2 237 | 2 966 | 2.67 | 2.73 | 70.0 | 82.2 | 1.30 | 1.63 |
| Pakistan | 4 380 | 6 117 | 6.43 | 3.33 | 20.2 | 23.3 | 4.25 | 1.56 |
| Philippines | 4 005 | 4 638 | 2.27 | 3.19 | 37.1 | 37.5 | 0.72 | 1.96 |
| Saudi Arabia | 1 746 | 2 098 | 0.90 | 1.66 | 51.0 | 53.4 | -1.40 | 0.46 |
| Thailand | 1 628 | 1 614 | -1.82 | 0.21 | 23.4 | 22.9 | -2.19 | 0.15 |
| Turkey | 3 246 | 3 777 | 3.35 | 1.46 | 38.9 | 42.4 | 1.74 | 0.94 |
| Viet Nam | 5 736 | 7 551 | 1.24 | 3.66 | 59.5 | 72.5 | 0.21 | 2.98 |
| OCEANIA | 3 832 | 4 238 | 1.98 | 1.24 | 92.9 | 90.2 | 0.51 | 0.08 |
| Australia | 3 129 | 3 448 | 1.92 | 1.19 | 124.2 | 122.4 | 0.54 | 0.20 |
| New Zealand | 431 | 459 | 1.70 | 0.66 | 90.2 | 88.7 | 0.71 | -0.04 |
| DEVELOPED COUNTRIES | 122 370 | 128 806 | 1.28 | 0.49 | 85.7 | 88.0 | 0.85 | 0.29 |
| DEVELOPING COUNTRIES | 205 017 | 242 869 | 1.53 | 1.55 | 32.8 | 34.5 | 0.21 | 0.47 |
| LEAST DEVELOPED COUNTRIES (LDC) | 13 006 | 17 786 | 3.60 | 3.18 | 15.0 | 16.1 | 1.22 | 0.97 |
| OECD³ | 120 243 | 127 287 | 1.61 | 0.54 | 86.5 | 88.6 | 1.05 | 0.27 |
| BRICS | 125 574 | 144 171 | 0.73 | 0.99 | 39.1 | 42.4 | -0.04 | 0.51 |

Note: Calendar year; except year ending 30 September New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).
5. Per capita consumption expressed in retail weight. Carcass weight to retail weight conversion factors of 0.7 for beef and veal, 0.78 for pigmeat and 0.88 for both sheep meat and poultry meat.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.26.1. Beef and veal projections: Production and trade

Calendar year

| | PRODUCTION (kt cwe) ⁴ | | Growth (%) ⁵ | | IMPORTS (kt cwe) ⁶ | | Growth (%) ⁵ | | EXPORTS (kt cwe) ⁶ | | Growth (%) ⁵ | |
|---------------------------------|----------------------------------|---------------|-------------------------|-------------|-------------------------------|---------------|-------------------------|--------------|-------------------------------|---------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 70 607 | 74 713 | 0.95 | 0.68 | 10 260 | 11 191 | 4.38 | 0.96 | 10 410 | 11 283 | 2.96 | 0.99 |
| NORTH AMERICA | 13 363 | 14 172 | 0.93 | 0.57 | 1 633 | 1 673 | 3.64 | 0.52 | 1 955 | 2 286 | 3.33 | 1.08 |
| Canada | 1 472 | 1 603 | 1.20 | 0.63 | 199 | 213 | -3.71 | 0.64 | 532 | 692 | 5.56 | 1.87 |
| United States | 11 891 | 12 569 | 0.90 | 0.57 | 1 434 | 1 460 | 5.10 | 0.50 | 1 424 | 1 594 | 2.59 | 0.76 |
| LATIN AMERICA | 18 407 | 19 718 | 1.05 | 0.65 | 790 | 817 | 1.10 | -0.01 | 3 727 | 4 832 | 7.02 | 1.84 |
| Argentina | 3 165 | 3 415 | 2.69 | 0.80 | 7 | 7 | 3.10 | 0.00 | 671 | 862 | 17.37 | 1.07 |
| Brazil | 9 192 | 9 819 | 0.41 | 0.45 | 42 | 50 | 0.18 | 0.00 | 1 806 | 2 534 | 6.05 | 2.31 |
| Chile | 228 | 271 | 1.61 | 0.81 | 319 | 359 | 7.99 | 0.98 | 21 | 25 | 14.11 | -0.97 |
| Colombia | 807 | 737 | -1.27 | -0.26 | 7 | 5 | 13.47 | -5.51 | 30 | 2 | 14.21 | -21.33 |
| Mexico | 1 992 | 2 230 | 1.35 | 1.11 | 139 | 123 | -1.90 | -0.37 | 223 | 250 | 7.71 | 1.06 |
| Paraguay | 488 | 632 | 4.98 | 2.79 | 9 | 5 | 14.20 | -3.16 | 340 | 479 | 5.52 | 3.26 |
| Peru | 192 | 215 | 0.44 | 1.14 | 9 | 12 | 6.92 | 3.75 | 0 | 0 | .. | .. |
| EUROPE | 10 784 | 10 197 | 0.25 | -0.40 | 1 289 | 1 258 | -3.35 | 0.67 | 1 071 | 1 083 | 2.58 | 0.72 |
| European Union ¹ | 7 208 | 6 689 | 0.43 | -0.50 | 368 | 389 | 0.99 | 1.51 | 585 | 653 | 2.40 | 1.64 |
| United Kingdom | 890 | 736 | 0.01 | -1.88 | 356 | 472 | 2.09 | 3.28 | 151 | 79 | 0.11 | -3.32 |
| Russia | 1 624 | 1 722 | 0.04 | 0.50 | 411 | 252 | -10.31 | -3.52 | 53 | 65 | 12.89 | 0.00 |
| Ukraine | 365 | 325 | -1.54 | -0.39 | 5 | 10 | -5.20 | 2.27 | 43 | 15 | 12.56 | -2.94 |
| AFRICA | 6 575 | 7 497 | 1.23 | 1.35 | 565 | 822 | 3.93 | 4.70 | 94 | 49 | 0.46 | -5.81 |
| Egypt | 715 | 711 | -1.83 | 0.20 | 306 | 364 | 14.53 | 4.20 | 1 | 1 | 14.49 | -0.34 |
| Ethiopia | 416 | 480 | 0.73 | 1.90 | 0 | 0 | .. | .. | 3 | 0 | 23.43 | .. |
| Nigeria | 281 | 281 | -0.67 | -0.70 | 1 | 2 | -4.46 | 2.78 | 0 | 0 | .. | .. |
| South Africa | 1 043 | 1 182 | 2.52 | 1.59 | 15 | 4 | -16.11 | 1.15 | 55 | 40 | 5.55 | -4.10 |
| ASIA | 18 228 | 19 566 | 1.36 | 1.02 | 5 949 | 6 588 | 7.93 | 0.86 | 1 780 | 983 | 0.50 | -2.85 |
| China ² | 6 594 | 7 127 | 1.07 | 0.58 | 1 526 | 1 849 | 49.23 | -0.28 | 61 | 59 | -4.88 | 0.34 |
| India | 2 410 | 1 610 | -1.08 | -1.19 | 0 | 0 | .. | .. | 1 367 | 642 | -0.43 | -3.21 |
| Indonesia | 377 | 392 | -2.28 | 0.84 | 225 | 227 | 18.69 | 0.25 | 0 | 0 | -7.01 | .. |
| Iran | 381 | 310 | 0.21 | -0.57 | 108 | 121 | -5.28 | 8.80 | 4 | 3 | 11.83 | -1.39 |
| Japan | 473 | 410 | -1.05 | -1.39 | 888 | 920 | 2.61 | 0.36 | 5 | 5 | 25.97 | 0.00 |
| Kazakhstan | 490 | 528 | 3.49 | 0.61 | 59 | 73 | -0.02 | 1.19 | 9 | 11 | 44.80 | -0.36 |
| Korea | 285 | 309 | -1.20 | 0.54 | 542 | 608 | 6.40 | 0.68 | 4 | 4 | -1.01 | 0.00 |
| Malaysia | 31 | 32 | 2.68 | 0.55 | 197 | 281 | 2.18 | 3.37 | 9 | 6 | -1.24 | -3.26 |
| Pakistan | 2 207 | 2 944 | 4.76 | 3.19 | 1 | 1 | -11.05 | .. | 61 | 11 | 8.59 | -17.92 |
| Philippines | 292 | 256 | -0.56 | 0.70 | 164 | 234 | 5.22 | 2.46 | 3 | 3 | -3.83 | -0.41 |
| Saudi Arabia | 42 | 62 | -1.06 | 3.80 | 157 | 183 | -0.08 | 1.26 | 13 | 10 | -9.96 | -1.25 |
| Thailand | 188 | 175 | -2.62 | 0.46 | 21 | 26 | -5.86 | -0.30 | 44 | 45 | -1.72 | 0.30 |
| Turkey | 986 | 1 285 | 6.15 | 1.83 | 26 | 11 | -11.45 | -1.82 | 23 | 36 | 3.33 | 1.70 |
| Viet Nam | 411 | 532 | 1.46 | 1.76 | 563 | 348 | -1.54 | 4.54 | 2 | 2 | 37.68 | -0.50 |
| OCEANIA | 3 249 | 3 563 | 0.22 | 1.35 | 32 | 34 | -0.08 | 0.87 | 1 782 | 2 051 | -0.91 | 1.60 |
| Australia | 2 549 | 2 894 | -0.13 | 1.76 | 10 | 8 | -3.78 | -0.28 | 1 157 | 1 453 | -2.67 | 2.55 |
| New Zealand | 689 | 661 | 1.51 | -0.28 | 10 | 10 | 3.52 | 0.00 | 623 | 596 | 3.00 | -0.37 |
| DEVELOPED COUNTRIES | 30 951 | 31 770 | 0.76 | 0.39 | 4 092 | 4 210 | 0.62 | 0.59 | 4 879 | 5 479 | 1.51 | 1.15 |
| DEVELOPING COUNTRIES | 39 656 | 42 943 | 1.11 | 0.90 | 6 168 | 6 981 | 7.74 | 1.18 | 5 531 | 5 804 | 4.44 | 0.84 |
| LEAST DEVELOPED COUNTRIES (LDC) | 4 002 | 4 925 | 1.94 | 1.93 | 109 | 217 | 1.40 | 4.69 | 15 | 7 | 8.87 | -7.50 |
| OECD³ | 29 768 | 30 684 | 0.74 | 0.38 | 4 475 | 4 823 | 3.19 | 0.94 | 4 780 | 5 393 | 1.56 | 1.21 |
| BRICS | 20 863 | 21 459 | 0.51 | 0.42 | 1 994 | 2 155 | 8.61 | -0.71 | 3 342 | 3 340 | 2.82 | 0.81 |

.. Not available

Note: Calendar year; except year ending 30 September for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Gross indigenous production.
5. Least-squares growth rate (see glossary).
6. Excludes trade of live animals.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.26.2. Beef and veal projections: Consumption, food

Calendar year

| | CONSUMPTION (kt cwe) | | Growth (%) ⁴ | | FOOD (kg rwe/cap) ⁵ | | Growth (%) ⁴ | |
|---------------------------------|----------------------|---------------|-------------------------|-------------|--------------------------------|-------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 70 281 | 74 421 | 1.06 | 0.68 | 6.4 | 6.1 | -0.08 | -0.23 |
| NORTH AMERICA | 13 312 | 13 920 | 0.81 | 0.51 | 25.4 | 25.0 | 0.11 | -0.06 |
| Canada | 965 | 977 | -0.36 | 0.03 | 18.1 | 16.7 | -1.34 | -0.75 |
| United States | 12 347 | 12 943 | 0.91 | 0.55 | 26.3 | 25.9 | 0.24 | 0.00 |
| LATIN AMERICA | 14 919 | 15 090 | -0.12 | 0.25 | 16.2 | 15.0 | -1.11 | -0.51 |
| Argentina | 2 501 | 2 560 | 0.50 | 0.71 | 39.1 | 36.5 | -0.50 | -0.10 |
| Brazil | 7 243 | 7 190 | -0.52 | -0.11 | 24.0 | 22.5 | -1.33 | -0.61 |
| Chile | 510 | 584 | 4.36 | 1.03 | 18.9 | 21.0 | 3.12 | 0.91 |
| Colombia | 741 | 680 | -1.76 | -0.08 | 10.3 | 8.9 | -2.98 | -0.53 |
| Mexico | 1 666 | 1 784 | 1.38 | 0.82 | 9.1 | 8.9 | 0.17 | -0.05 |
| Paraguay | 153 | 155 | 5.30 | 1.32 | 15.2 | 13.6 | 3.91 | 0.24 |
| Peru | 201 | 227 | 0.68 | 1.24 | 4.3 | 4.4 | -0.69 | 0.38 |
| EUROPE | 10 867 | 10 242 | -0.72 | -0.36 | 10.2 | 9.7 | -0.87 | -0.26 |
| European Union ¹ | 6 759 | 6 267 | 0.14 | -0.50 | 10.6 | 9.9 | 0.01 | -0.41 |
| United Kingdom | 1 097 | 1 129 | 0.68 | 0.11 | 11.4 | 11.2 | 0.03 | -0.26 |
| Russia | 2 083 | 1 941 | -3.64 | -0.30 | 10.0 | 9.5 | -3.81 | -0.10 |
| Ukraine | 319 | 315 | -2.93 | -0.19 | 5.1 | 5.4 | -2.48 | 0.49 |
| AFRICA | 7 167 | 8 477 | 1.45 | 1.84 | 3.9 | 3.5 | -1.11 | -0.47 |
| Egypt | 1 058 | 1 103 | 1.04 | 1.36 | 7.4 | 6.4 | -1.09 | -0.28 |
| Ethiopia | 391 | 477 | 0.87 | 2.44 | 2.4 | 2.3 | -1.83 | 0.11 |
| Nigeria | 332 | 398 | -0.64 | 1.55 | 1.2 | 1.1 | -3.21 | -0.89 |
| South Africa | 960 | 1 064 | 0.80 | 2.04 | 11.5 | 11.3 | -0.67 | 0.98 |
| ASIA | 22 833 | 25 490 | 2.90 | 1.12 | 3.5 | 3.6 | 1.91 | 0.43 |
| China ² | 8 138 | 8 941 | 3.93 | 0.33 | 4.0 | 4.3 | 3.41 | 0.18 |
| India | 1 043 | 968 | -1.47 | 0.44 | 0.5 | 0.5 | -2.55 | -0.41 |
| Indonesia | 743 | 769 | 2.94 | 0.52 | 1.9 | 1.8 | 1.69 | -0.36 |
| Iran | 488 | 429 | -0.72 | 1.33 | 4.1 | 3.2 | -2.02 | 0.37 |
| Japan | 1 343 | 1 330 | 1.22 | -0.21 | 7.4 | 7.7 | 1.40 | 0.26 |
| Kazakhstan | 543 | 593 | 2.87 | 0.70 | 20.5 | 20.1 | 1.38 | -0.22 |
| Korea | 821 | 913 | 3.36 | 0.64 | 11.2 | 12.5 | 3.03 | 0.67 |
| Malaysia | 234 | 323 | 1.51 | 3.04 | 5.1 | 6.3 | 0.15 | 1.95 |
| Pakistan | 2 138 | 2 924 | 4.65 | 3.48 | 6.9 | 7.8 | 2.50 | 1.72 |
| Philippines | 461 | 494 | 1.63 | 1.49 | 3.0 | 2.8 | 0.10 | 0.28 |
| Saudi Arabia | 187 | 236 | 0.71 | 1.99 | 3.8 | 4.2 | -1.58 | 0.79 |
| Thailand | 119 | 118 | -4.07 | 0.37 | 1.2 | 1.2 | -4.43 | 0.31 |
| Turkey | 1 065 | 1 274 | 4.18 | 1.74 | 8.9 | 10.0 | 2.55 | 1.22 |
| Viet Nam | 1 005 | 891 | 0.66 | 2.73 | 7.3 | 6.0 | -0.36 | 2.05 |
| OCEANIA | 1 183 | 1 202 | 1.66 | 0.63 | 20.1 | 17.9 | 0.19 | -0.53 |
| Australia | 1 085 | 1 116 | 2.22 | 0.76 | 30.1 | 27.7 | 0.83 | -0.23 |
| New Zealand | 77 | 64 | -4.19 | -1.63 | 11.2 | 8.6 | -5.11 | -2.31 |
| DEVELOPED COUNTRIES | 29 992 | 30 376 | 0.44 | 0.29 | 14.7 | 14.5 | 0.01 | 0.09 |
| DEVELOPING COUNTRIES | 40 289 | 44 045 | 1.54 | 0.95 | 4.5 | 4.4 | 0.23 | -0.11 |
| LEAST DEVELOPED COUNTRIES (LDC) | 4 154 | 5 236 | 2.19 | 2.06 | 3.3 | 3.3 | -0.16 | -0.12 |
| OECD³ | 29 015 | 29 657 | 0.90 | 0.32 | 14.6 | 14.5 | 0.33 | 0.05 |
| BRICS | 19 466 | 20 104 | 0.74 | 0.20 | 4.2 | 4.1 | -0.04 | -0.28 |

Note: Calendar year; except year ending 30 September New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).
5. Per capita consumption expressed in retail weight. Carcass weight to retail weight conversion factors of 0.7 for beef and veal, 0.78 for pigmeat and 0.88 for both sheep meat and poultry meat.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.27.1. Pigmeat projections: Production and trade

Calendar year

| | PRODUCTION (kt cwe) ⁴ | | Growth (%) ⁵ | | IMPORTS (kt cwe) ⁶ | | Growth (%) ⁵ | | EXPORTS (kt cwe) ⁶ | | Growth (%) ⁵ | |
|---------------------------------|----------------------------------|----------------|-------------------------|--------------|-------------------------------|--------------|-------------------------|--------------|-------------------------------|--------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 112 928 | 127 278 | -0.01 | 1.09 | 9 855 | 9 866 | 4.53 | -0.66 | 10 346 | 9 813 | 3.66 | -0.77 |
| NORTH AMERICA | 14 415 | 15 271 | 2.40 | 0.26 | 694 | 829 | 2.12 | 1.67 | 4 379 | 4 261 | 2.98 | -1.08 |
| Canada | 2 110 | 2 281 | 1.09 | 0.48 | 255 | 291 | 2.11 | 0.26 | 1 429 | 1 499 | 2.17 | 0.04 |
| United States | 12 304 | 12 990 | 2.64 | 0.22 | 438 | 538 | 2.10 | 2.51 | 2 950 | 2 762 | 3.40 | -1.65 |
| LATIN AMERICA | 8 527 | 9 620 | 2.85 | 1.05 | 1 629 | 1 721 | 8.11 | 0.54 | 1 242 | 1 175 | 7.32 | -0.96 |
| Argentina | 619 | 725 | 8.74 | 0.99 | 33 | 25 | 1.34 | 1.62 | 31 | 36 | 24.80 | -0.47 |
| Brazil | 4 065 | 4 312 | 2.46 | 0.45 | 4 | 1 | 6.32 | -5.96 | 696 | 579 | 6.21 | -1.03 |
| Chile | 546 | 658 | -0.14 | 1.67 | 124 | 121 | 24.85 | -1.59 | 236 | 330 | 6.00 | 1.61 |
| Colombia | 416 | 517 | 8.66 | 1.81 | 119 | 133 | 17.90 | 2.61 | 1 | 0 | .. | .. |
| Mexico | 1 582 | 1 908 | 3.60 | 1.60 | 1 003 | 1 025 | 7.57 | 0.26 | 247 | 200 | 13.21 | -4.13 |
| Paraguay | 59 | 66 | 8.65 | 1.37 | 4 | 4 | 4.62 | -0.94 | 6 | 7 | 33.88 | 1.21 |
| Peru | 170 | 205 | 4.73 | 1.94 | 11 | 12 | 10.09 | 7.18 | 0 | 0 | .. | .. |
| EUROPE | 29 713 | 28 874 | 1.20 | -0.30 | 1 242 | 1 339 | -7.86 | 1.50 | 4 449 | 4 038 | 3.88 | -0.43 |
| European Union ¹ | 23 000 | 21 746 | 0.58 | -0.45 | 159 | 172 | 0.33 | 1.28 | 4 005 | 3 647 | 3.97 | -0.33 |
| United Kingdom | 912 | 917 | 2.33 | -0.40 | 765 | 816 | 0.33 | 0.99 | 265 | 234 | 4.59 | -1.53 |
| Russia | 3 955 | 4 350 | 6.37 | 0.40 | 90 | 51 | -29.27 | 3.85 | 106 | 100 | 65.82 | 0.00 |
| Ukraine | 708 | 818 | 0.20 | 1.22 | 35 | 38 | -20.54 | 0.57 | 4 | 5 | -19.87 | -0.07 |
| AFRICA | 1 632 | 1 890 | 4.05 | 1.48 | 283 | 567 | 4.06 | 8.28 | 29 | 20 | 0.50 | -1.41 |
| Egypt | 1 | 1 | 4.22 | -2.00 | 2 | 3 | 30.07 | 3.33 | 0 | 0 | .. | .. |
| Ethiopia | 2 | 3 | 1.74 | 2.72 | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| Nigeria | 289 | 304 | 2.18 | 1.51 | 3 | 5 | 26.90 | 2.38 | 0 | 0 | .. | .. |
| South Africa | 278 | 322 | 3.89 | 1.53 | 35 | 33 | -2.97 | 1.50 | 25 | 17 | 0.44 | -1.48 |
| ASIA | 58 087 | 71 035 | -1.58 | 1.91 | 5 713 | 5 066 | 9.35 | -2.55 | 209 | 277 | -2.65 | -0.16 |
| China ² | 45 898 | 57 295 | -2.26 | 1.96 | 2 659 | 1 505 | 22.44 | -8.66 | 82 | 54 | -9.57 | -0.50 |
| India | 364 | 381 | 0.26 | 0.85 | 1 | 25 | -0.74 | 57.26 | 1 | 0 | .. | .. |
| Indonesia | 232 | 229 | -1.45 | 0.37 | 2 | 8 | 7.35 | 11.85 | 0 | 0 | .. | .. |
| Iran | 0 | 0 | .. | .. | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| Japan | 1 283 | 1 248 | -0.03 | -0.31 | 1 336 | 1 318 | 2.74 | -0.19 | 2 | 4 | 11.20 | 3.57 |
| Kazakhstan | 87 | 74 | -2.61 | -1.89 | 33 | 61 | -3.40 | 4.54 | 1 | 1 | 24.00 | -0.95 |
| Korea | 1 363 | 1 356 | 4.17 | -0.18 | 679 | 773 | 3.34 | 1.83 | 2 | 3 | 6.54 | 0.00 |
| Malaysia | 223 | 228 | 0.26 | 0.70 | 27 | 30 | 7.42 | 1.21 | 5 | 4 | -2.30 | -0.77 |
| Pakistan | 0 | 0 | .. | .. | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| Philippines | 1 671 | 1 483 | -0.32 | 2.19 | 128 | 293 | 3.15 | 7.13 | 2 | 2 | -3.64 | -1.62 |
| Saudi Arabia | 0 | 0 | .. | .. | 19 | 16 | 13.75 | 0.00 | 3 | 1 | 32.95 | 0.00 |
| Thailand | 1 110 | 1 344 | 0.86 | 1.13 | 1 | 2 | -13.35 | 1.28 | 39 | 94 | 4.89 | 4.78 |
| Turkey | 0 | 0 | .. | .. | 16 | 19 | 2.23 | -0.01 | 16 | 19 | 2.23 | 0.01 |
| Viet Nam | 3 424 | 4 665 | 1.01 | 3.21 | 129 | 238 | 56.30 | 17.16 | 40 | 75 | 9.54 | -4.18 |
| OCEANIA | 555 | 589 | 1.65 | 0.91 | 295 | 344 | 3.39 | 1.84 | 39 | 42 | 0.77 | 1.37 |
| Australia | 411 | 428 | 2.17 | 0.73 | 214 | 245 | 2.14 | 1.51 | 37 | 41 | 0.37 | 1.43 |
| New Zealand | 46 | 45 | -1.00 | -0.33 | 69 | 86 | 6.97 | 2.37 | 1 | 1 | .. | 0.02 |
| DEVELOPED COUNTRIES | 46 305 | 46 322 | 1.53 | -0.10 | 3 663 | 3 958 | -2.21 | 1.00 | 8 898 | 8 365 | 3.41 | -0.76 |
| DEVELOPING COUNTRIES | 66 624 | 80 956 | -1.00 | 1.84 | 6 193 | 5 908 | 11.01 | -1.65 | 1 448 | 1 448 | 5.26 | -0.82 |
| LEAST DEVELOPED COUNTRIES (LDC) | 2 357 | 2 999 | 6.31 | 2.69 | 158 | 413 | 6.64 | 11.56 | 0 | 0 | -12.01 | .. |
| OECD³ | 44 351 | 44 494 | 1.41 | -0.05 | 5 194 | 5 557 | 3.48 | 0.78 | 9 195 | 8 747 | 3.71 | -0.76 |
| BRICS | 54 559 | 66 659 | -1.42 | 1.74 | 2 789 | 1 616 | 8.07 | -8.15 | 909 | 749 | 5.02 | -0.89 |

.. Not available

Note: Calendar year; except year ending 30 September New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Gross indigenous production.
5. Least-squares growth rate (see glossary).
6. Excludes trade of live animals.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.27.2. Pigmeat projections: Consumption, food

Calendar year

| | CONSUMPTION (kt cwe) | | Growth (%) ⁴ | | FOOD (kg rwe/cap) ⁵ | | Growth (%) ⁴ | |
|---------------------------------|----------------------|----------------|-------------------------|-------------|--------------------------------|-------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 112 293 | 127 027 | 0.05 | 1.09 | 11.4 | 11.7 | -1.08 | 0.17 |
| NORTH AMERICA | 10 766 | 11 834 | 2.24 | 0.90 | 22.9 | 23.6 | 1.52 | 0.33 |
| Canada | 822 | 909 | 1.12 | 1.01 | 17.1 | 17.4 | 0.13 | 0.22 |
| United States | 9 945 | 10 925 | 2.33 | 0.89 | 23.6 | 24.4 | 1.65 | 0.34 |
| LATIN AMERICA | 8 919 | 10 171 | 3.08 | 1.21 | 10.8 | 11.3 | 2.06 | 0.45 |
| Argentina | 622 | 714 | 7.51 | 1.09 | 10.8 | 11.4 | 6.44 | 0.27 |
| Brazil | 3 372 | 3 734 | 1.77 | 0.71 | 12.5 | 13.0 | 0.94 | 0.21 |
| Chile | 434 | 449 | 0.40 | 0.72 | 17.9 | 18.0 | -0.80 | 0.60 |
| Colombia | 534 | 651 | 10.08 | 1.96 | 8.3 | 9.5 | 8.72 | 1.50 |
| Mexico | 2 343 | 2 737 | 4.33 | 1.61 | 14.3 | 15.2 | 3.08 | 0.73 |
| Paraguay | 56 | 63 | 7.43 | 1.22 | 6.2 | 6.2 | 6.02 | 0.14 |
| Peru | 181 | 217 | 5.05 | 2.15 | 4.3 | 4.7 | 3.62 | 1.28 |
| EUROPE | 26 495 | 26 178 | 0.18 | -0.19 | 27.6 | 27.5 | 0.03 | -0.09 |
| European Union ¹ | 19 115 | 18 246 | -0.03 | -0.46 | 33.5 | 32.2 | -0.16 | -0.38 |
| United Kingdom | 1 411 | 1 499 | 0.85 | 0.53 | 16.3 | 16.6 | 0.20 | 0.17 |
| Russia | 3 939 | 4 300 | 1.64 | 0.45 | 21.1 | 23.4 | 1.45 | 0.65 |
| Ukraine | 743 | 854 | -2.09 | 1.19 | 13.2 | 16.3 | -1.63 | 1.88 |
| AFRICA | 1 887 | 2 437 | 4.12 | 2.74 | 1.1 | 1.1 | 1.49 | 0.41 |
| Egypt | 3 | 4 | 20.96 | 2.34 | 0.0 | 0.0 | 18.41 | 0.68 |
| Ethiopia | 2 | 3 | 1.19 | 3.80 | 0.0 | 0.0 | -1.52 | 1.44 |
| Nigeria | 293 | 310 | 2.34 | 1.52 | 1.1 | 0.9 | -0.31 | -0.91 |
| South Africa | 287 | 338 | 3.31 | 1.71 | 3.8 | 4.0 | 1.81 | 0.65 |
| ASIA | 63 413 | 75 517 | -0.85 | 1.53 | 10.8 | 11.9 | -1.80 | 0.85 |
| China ² | 48 393 | 58 649 | -1.51 | 1.49 | 26.3 | 31.2 | -2.00 | 1.34 |
| India | 364 | 406 | 0.23 | 1.56 | 0.2 | 0.2 | -0.86 | 0.70 |
| Indonesia | 220 | 230 | -1.26 | 0.93 | 0.6 | 0.6 | -2.46 | 0.05 |
| Iran | 0 | 0 | .. | .. | 0.0 | 0.0 | -1.32 | -0.95 |
| Japan | 2 621 | 2 562 | 1.33 | -0.25 | 16.1 | 16.5 | 1.50 | 0.23 |
| Kazakhstan | 119 | 134 | -2.93 | 0.56 | 5.0 | 5.1 | -4.33 | -0.36 |
| Korea | 1 989 | 2 125 | 3.54 | 0.40 | 30.3 | 32.4 | 3.20 | 0.43 |
| Malaysia | 244 | 255 | 0.96 | 0.78 | 6.0 | 5.5 | -0.40 | -0.29 |
| Pakistan | 0 | 0 | .. | .. | 0.0 | 0.0 | 25.17 | -1.71 |
| Philippines | 1 796 | 1 774 | -0.11 | 2.86 | 13.0 | 11.2 | -1.61 | 1.63 |
| Saudi Arabia | 17 | 15 | 13.90 | 0.00 | 0.4 | 0.3 | 11.30 | -1.18 |
| Thailand | 909 | 911 | 0.10 | 0.10 | 10.2 | 10.1 | -0.27 | 0.04 |
| Turkey | 0 | 0 | .. | .. | 0.0 | 0.0 | -1.56 | -0.45 |
| Viet Nam | 3 514 | 4 831 | 1.47 | 3.79 | 28.4 | 36.2 | 0.44 | 3.11 |
| OCEANIA | 811 | 891 | 2.30 | 1.24 | 15.3 | 14.8 | 0.82 | 0.07 |
| Australia | 588 | 631 | 2.28 | 0.98 | 18.2 | 17.5 | 0.89 | -0.01 |
| New Zealand | 114 | 130 | 3.10 | 1.36 | 18.6 | 19.5 | 2.10 | 0.66 |
| DEVELOPED COUNTRIES | 41 100 | 41 912 | 0.79 | 0.14 | 22.4 | 22.3 | 0.36 | -0.06 |
| DEVELOPING COUNTRIES | 71 193 | 85 116 | -0.38 | 1.59 | 8.9 | 9.4 | -1.66 | 0.51 |
| LEAST DEVELOPED COUNTRIES (LDC) | 2 527 | 3 424 | 6.31 | 3.43 | 2.3 | 2.4 | 3.87 | 1.22 |
| OECD³ | 40 307 | 41 278 | 1.19 | 0.22 | 22.6 | 22.4 | 0.63 | -0.05 |
| BRICS | 56 355 | 67 426 | -1.10 | 1.38 | 13.7 | 15.5 | -1.86 | 0.90 |

.. Not available

Note: Calendar year; except year ending 30 September for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).
5. Per capita consumption expressed in retail weight. Carcass weight to retail weight conversion factors of 0.7 for beef and veal, 0.78 for pigmeat and 0.88 for both sheep meat and poultry meat.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.28.1. Poultry meat projections: Production and trade

Calendar year

| | PRODUCTION (kt rtc) | | Growth (%) ⁴ | | IMPORTS (kt rtc) | | Growth (%) ⁴ | | EXPORTS (kt rtc) | | Growth (%) ⁴ | |
|---------------------------------|---------------------|----------------|-------------------------|-------------|--------------------|---------------|-------------------------|--------------|--------------------|---------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 130 629 | 153 479 | 2.98 | 1.43 | 13 203 | 15 807 | 1.57 | 2.13 | 14 951 | 17 470 | 2.46 | 1.91 |
| NORTH AMERICA | 23 674 | 26 547 | 1.80 | 1.10 | 247 | 270 | -0.05 | 0.71 | 3 675 | 4 188 | -0.51 | 1.73 |
| Canada | 1 438 | 1 667 | 2.27 | 1.55 | 176 | 197 | -0.70 | 0.99 | 137 | 153 | -5.46 | 1.19 |
| United States | 22 235 | 24 880 | 1.77 | 1.07 | 71 | 73 | 1.73 | 0.00 | 3 537 | 4 034 | -0.26 | 1.75 |
| LATIN AMERICA | 26 813 | 32 026 | 1.82 | 1.65 | 2 271 | 2 894 | 3.16 | 2.57 | 4 573 | 5 806 | 0.85 | 3.34 |
| Argentina | 2 164 | 2 562 | 1.60 | 1.47 | 10 | 5 | -10.55 | 0.00 | 232 | 343 | -1.66 | 3.81 |
| Brazil | 13 890 | 16 235 | 1.40 | 1.44 | 0 | 0 | .. | .. | 4 095 | 5 184 | 0.92 | 3.54 |
| Chile | 770 | 924 | 2.11 | 1.61 | 142 | 118 | 8.06 | -0.18 | 176 | 202 | 5.26 | 0.18 |
| Colombia | 1 656 | 2 007 | 5.23 | 2.21 | 108 | 309 | 9.22 | 10.15 | 2 | 1 | -16.75 | -1.15 |
| Mexico | 3 485 | 4 183 | 3.05 | 1.57 | 999 | 1 033 | 3.30 | -0.03 | 4 | 7 | -6.33 | 5.85 |
| Paraguay | 51 | 66 | 13.60 | 2.18 | 26 | 34 | 1.83 | 3.16 | 6 | 5 | 177.71 | -3.06 |
| Peru | 1 742 | 2 453 | 5.54 | 3.17 | 77 | 69 | 16.21 | -1.39 | 2 | 0 | -22.89 | .. |
| EUROPE | 21 886 | 23 445 | 3.33 | 0.48 | 2 259 | 2 299 | -1.15 | 0.62 | 3 619 | 4 042 | 6.28 | 0.84 |
| European Union ¹ | 13 457 | 14 116 | 2.84 | 0.35 | 811 | 929 | -1.70 | 1.63 | 2 383 | 2 602 | 3.90 | 1.21 |
| United Kingdom | 1 843 | 1 888 | 2.48 | -0.20 | 580 | 713 | 2.25 | 2.46 | 357 | 313 | 2.61 | -2.01 |
| Russia | 4 582 | 4 870 | 5.36 | 0.56 | 245 | 121 | -11.29 | -7.13 | 267 | 350 | 34.47 | 1.54 |
| Ukraine | 1 146 | 1 537 | 2.66 | 1.55 | 373 | 276 | 7.03 | -0.84 | 398 | 530 | 24.83 | 0.85 |
| AFRICA | 6 585 | 9 132 | 3.72 | 3.09 | 2 059 | 2 917 | 3.04 | 4.84 | 173 | 118 | 4.94 | -2.81 |
| Egypt | 1 458 | 2 202 | 5.96 | 4.05 | 43 | 43 | -5.48 | 4.97 | 4 | 3 | 1.83 | -0.79 |
| Ethiopia | 77 | 107 | 3.82 | 3.35 | 1 | 1 | .. | 2.91 | 0 | 0 | .. | .. |
| Nigeria | 244 | 241 | 3.41 | 0.32 | 13 | 28 | 28.13 | 22.68 | 0 | 0 | .. | .. |
| South Africa | 1 855 | 2 610 | 2.45 | 2.78 | 532 | 529 | 4.90 | 1.36 | 65 | 62 | -2.58 | -0.95 |
| ASIA | 50 112 | 60 486 | 4.01 | 1.63 | 6 289 | 7 326 | 1.69 | 1.57 | 2 846 | 3 244 | 5.61 | 1.39 |
| China ² | 21 980 | 25 010 | 3.16 | 0.53 | 954 | 776 | 8.92 | -5.41 | 431 | 458 | -0.75 | 1.83 |
| India | 4 051 | 5 133 | 5.82 | 3.85 | 1 | 2 | .. | 11.64 | 5 | 0 | -8.60 | -24.89 |
| Indonesia | 3 381 | 3 875 | 9.59 | 2.65 | 0 | 0 | -18.06 | .. | 2 | 1 | -6.56 | -9.40 |
| Iran | 2 302 | 2 886 | 2.76 | 2.18 | 4 | 1 | -30.35 | 0.77 | 56 | 18 | -2.91 | -4.50 |
| Japan | 1 637 | 1 665 | 2.05 | -0.04 | 910 | 879 | 2.96 | -0.33 | 10 | 12 | 6.98 | 0.00 |
| Kazakhstan | 205 | 311 | 8.73 | 3.24 | 200 | 249 | 1.41 | 1.92 | 11 | 10 | 32.70 | -1.76 |
| Korea | 912 | 987 | 3.79 | 0.61 | 195 | 199 | 3.66 | -0.11 | 48 | 44 | 4.77 | -1.19 |
| Malaysia | 1 844 | 2 300 | 3.25 | 2.09 | 76 | 140 | 6.52 | 6.65 | 201 | 105 | 6.78 | -6.24 |
| Pakistan | 1 522 | 2 280 | 8.83 | 3.47 | 1 | 1 | -10.29 | 2.10 | 9 | 8 | 10.28 | -4.90 |
| Philippines | 1 373 | 1 557 | 3.87 | 2.08 | 315 | 731 | 14.99 | 9.16 | 1 | 1 | -24.44 | -0.68 |
| Saudi Arabia | 817 | 1 258 | 7.56 | 2.41 | 597 | 447 | -4.50 | 0.00 | 43 | 44 | 3.94 | 0.00 |
| Thailand | 1 764 | 2 064 | 2.01 | 1.78 | 4 | 4 | -9.17 | 0.75 | 1 185 | 1 487 | 7.04 | 2.37 |
| Turkey | 2 303 | 2 882 | 3.97 | 1.99 | 51 | 48 | 13.47 | 0.52 | 627 | 907 | 9.30 | 2.84 |
| Viet Nam | 1 053 | 1 605 | 7.49 | 3.26 | 176 | 221 | -11.51 | 6.85 | 33 | 28 | 99.93 | -4.00 |
| OCEANIA | 1 559 | 1 843 | 2.88 | 1.54 | 78 | 101 | 8.08 | 3.78 | 66 | 72 | 4.91 | 1.89 |
| Australia | 1 280 | 1 524 | 2.43 | 1.57 | 0 | 0 | .. | .. | 46 | 54 | 2.55 | 1.87 |
| New Zealand | 238 | 265 | 5.21 | 1.21 | 1 | 1 | 136.42 | 0.00 | 20 | 18 | 13.24 | 2.00 |
| DEVELOPED COUNTRIES | 51 622 | 57 423 | 2.52 | 0.92 | 4 402 | 4 584 | 0.63 | 0.71 | 7 482 | 8 398 | 2.44 | 1.23 |
| DEVELOPING COUNTRIES | 79 006 | 96 056 | 3.28 | 1.76 | 8 801 | 11 223 | 2.05 | 2.77 | 7 469 | 9 071 | 2.49 | 2.58 |
| LEAST DEVELOPED COUNTRIES (LDC) | 3 297 | 4 809 | 4.81 | 3.48 | 946 | 1 543 | 2.75 | 7.34 | 63 | 21 | 18.44 | -5.94 |
| OECD³ | 52 065 | 57 970 | 2.44 | 0.97 | 4 098 | 4 570 | 1.89 | 1.14 | 7 379 | 8 357 | 1.79 | 1.42 |
| BRICS | 46 358 | 53 857 | 2.97 | 1.19 | 1 731 | 1 428 | 2.66 | -3.61 | 4 862 | 6 053 | 1.38 | 3.21 |

.. Not available

Note: Calendar year; except year ending 30 September for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.28.2. Poultry meat projections: Consumption, food

Calendar year

| | CONSUMPTION (kt rtc) | | Growth (%) ⁴ | | FOOD (kg rwe/cap) ⁵ | | Growth (%) ⁴ | |
|---------------------------------|----------------------|----------------|-------------------------|-------------|--------------------------------|-------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 128 912 | 151 831 | 2.89 | 1.46 | 14.8 | 15.7 | 1.73 | 0.54 |
| NORTH AMERICA | 20 261 | 22 645 | 2.24 | 0.99 | 48.7 | 51.0 | 1.53 | 0.42 |
| Canada | 1 476 | 1 726 | 2.91 | 1.47 | 34.7 | 37.2 | 1.90 | 0.69 |
| United States | 18 785 | 20 919 | 2.19 | 0.95 | 50.2 | 52.7 | 1.51 | 0.41 |
| LATIN AMERICA | 24 512 | 29 114 | 2.13 | 1.43 | 33.4 | 36.4 | 1.12 | 0.66 |
| Argentina | 1 942 | 2 224 | 1.96 | 1.15 | 38.2 | 39.9 | 0.95 | 0.33 |
| Brazil | 9 795 | 11 051 | 1.61 | 0.60 | 40.8 | 43.4 | 0.78 | 0.10 |
| Chile | 735 | 840 | 2.37 | 1.71 | 34.2 | 38.0 | 1.15 | 1.59 |
| Colombia | 1 762 | 2 315 | 5.50 | 2.99 | 30.8 | 38.1 | 4.19 | 2.52 |
| Mexico | 4 480 | 5 209 | 3.12 | 1.23 | 30.9 | 32.5 | 1.89 | 0.35 |
| Paraguay | 71 | 95 | 7.28 | 2.88 | 8.9 | 10.6 | 5.87 | 1.78 |
| Peru | 1 817 | 2 522 | 5.94 | 3.02 | 49.2 | 61.6 | 4.50 | 2.15 |
| EUROPE | 20 520 | 21 701 | 2.31 | 0.44 | 24.1 | 25.7 | 2.15 | 0.54 |
| European Union ¹ | 11 879 | 12 443 | 2.27 | 0.29 | 23.5 | 24.8 | 2.13 | 0.38 |
| United Kingdom | 2 066 | 2 288 | 2.39 | 0.86 | 26.9 | 28.6 | 1.73 | 0.49 |
| Russia | 4 561 | 4 641 | 3.00 | 0.19 | 27.5 | 28.5 | 2.82 | 0.39 |
| Ukraine | 1 122 | 1 283 | 0.35 | 1.28 | 22.4 | 27.6 | 0.82 | 1.97 |
| AFRICA | 8 471 | 11 931 | 3.53 | 3.57 | 5.8 | 6.3 | 0.91 | 1.22 |
| Egypt | 1 496 | 2 242 | 5.33 | 4.08 | 13.1 | 16.3 | 3.11 | 2.39 |
| Ethiopia | 77 | 107 | 3.91 | 3.34 | 0.6 | 0.7 | 1.14 | 1.00 |
| Nigeria | 257 | 269 | 3.26 | 1.35 | 1.1 | 0.9 | 0.59 | -1.08 |
| South Africa | 2 322 | 3 077 | 3.19 | 2.61 | 34.9 | 41.0 | 1.69 | 1.54 |
| ASIA | 53 577 | 64 567 | 3.65 | 1.63 | 10.3 | 11.5 | 2.65 | 0.95 |
| China ² | 22 503 | 25 328 | 3.48 | 0.27 | 13.8 | 15.2 | 2.96 | 0.11 |
| India | 4 046 | 5 135 | 5.85 | 3.86 | 2.6 | 3.0 | 4.70 | 2.99 |
| Indonesia | 3 379 | 3 875 | 9.60 | 2.65 | 11.0 | 11.4 | 8.27 | 1.75 |
| Iran | 2 251 | 2 869 | 2.58 | 2.25 | 23.9 | 27.2 | 1.22 | 1.28 |
| Japan | 2 543 | 2 532 | 2.38 | -0.14 | 17.6 | 18.5 | 2.56 | 0.34 |
| Kazakhstan | 394 | 550 | 4.32 | 2.73 | 18.7 | 23.5 | 2.82 | 1.79 |
| Korea | 1 059 | 1 143 | 3.67 | 0.55 | 18.2 | 19.7 | 3.33 | 0.59 |
| Malaysia | 1 719 | 2 335 | 3.02 | 2.93 | 47.4 | 56.9 | 1.64 | 1.83 |
| Pakistan | 1 515 | 2 273 | 8.79 | 3.52 | 6.2 | 7.6 | 6.55 | 1.75 |
| Philippines | 1 687 | 2 287 | 5.49 | 3.89 | 13.7 | 16.3 | 3.90 | 2.65 |
| Saudi Arabia | 1 371 | 1 662 | 1.05 | 1.77 | 35.2 | 37.2 | -1.25 | 0.57 |
| Thailand | 597 | 580 | -3.74 | 0.36 | 7.6 | 7.3 | -4.10 | 0.29 |
| Turkey | 1 727 | 2 024 | 2.52 | 1.60 | 18.2 | 20.0 | 0.92 | 1.08 |
| Viet Nam | 1 196 | 1 798 | 1.05 | 3.81 | 10.9 | 15.2 | 0.03 | 3.13 |
| OCEANIA | 1 572 | 1 872 | 3.01 | 1.63 | 33.5 | 35.1 | 1.53 | 0.46 |
| Australia | 1 234 | 1 470 | 2.43 | 1.56 | 43.1 | 45.9 | 1.04 | 0.56 |
| New Zealand | 219 | 248 | 4.72 | 1.15 | 40.4 | 42.1 | 3.71 | 0.45 |
| DEVELOPED COUNTRIES | 48 558 | 53 624 | 2.35 | 0.87 | 29.9 | 32.2 | 1.91 | 0.66 |
| DEVELOPING COUNTRIES | 80 354 | 98 207 | 3.22 | 1.79 | 11.3 | 12.3 | 1.89 | 0.71 |
| LEAST DEVELOPED COUNTRIES (LDC) | 4 180 | 6 331 | 4.21 | 4.35 | 4.2 | 5.0 | 1.82 | 2.12 |
| OECD³ | 48 800 | 54 199 | 2.49 | 0.93 | 30.9 | 33.2 | 1.92 | 0.66 |
| BRICS | 43 227 | 49 232 | 3.17 | 0.79 | 11.8 | 12.7 | 2.37 | 0.31 |

Note: Calendar year; except year ending 30 September for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).
5. Per capita consumption expressed in retail weight. Carcass weight to retail weight conversion factors of 0.7 for beef and veal, 0.78 for pigmeat and 0.88 for both sheep meat and poultry meat.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.29.1. Sheep meat projections: Production and trade

Calendar year

| | PRODUCTION (kt cwe) ⁴ | | Growth (%) ⁵ | | IMPORTS (kt cwe) ⁶ | | Growth (%) ⁵ | | EXPORTS (kt cwe) ⁶ | | Growth (%) ⁵ | |
|---------------------------------|----------------------------------|---------------|-------------------------|-------------|-------------------------------|--------------|-------------------------|-------------|-------------------------------|--------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 15 862 | 18 359 | 2.03 | 1.46 | 1 131 | 1 152 | 2.34 | 0.65 | 1 169 | 1 185 | 1.73 | 0.39 |
| NORTH AMERICA | 92 | 95 | -0.30 | -0.12 | 127 | 117 | 4.35 | 0.11 | 3 | 3 | -9.20 | -0.04 |
| Canada | 17 | 17 | 0.69 | 0.05 | 22 | 24 | 2.18 | 0.51 | 0 | 0 | .. | .. |
| United States | 76 | 78 | -0.51 | -0.15 | 105 | 94 | 4.88 | 0.02 | 3 | 3 | -9.29 | -0.05 |
| LATIN AMERICA | 454 | 473 | 0.63 | 0.14 | 21 | 19 | -3.79 | 1.59 | 23 | 21 | -1.52 | -2.14 |
| Argentina | 52 | 57 | -1.61 | 0.71 | 0 | 0 | .. | .. | 3 | 4 | -3.22 | -0.11 |
| Brazil | 133 | 136 | 2.14 | 0.09 | 5 | 4 | -2.33 | 0.45 | 0 | 0 | .. | .. |
| Chile | 14 | 13 | -1.55 | -1.18 | 0 | 0 | .. | .. | 6 | 5 | -0.14 | -2.26 |
| Colombia | 11 | 11 | 2.86 | 0.08 | 0 | 1 | .. | 2.05 | 0 | 0 | .. | .. |
| Mexico | 104 | 110 | 0.74 | 0.38 | 6 | 4 | -7.18 | 0.26 | 1 | 1 | .. | 0.00 |
| Paraguay | 2 | 3 | -5.99 | 0.68 | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| Peru | 39 | 42 | -0.79 | 0.84 | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| EUROPE | 1 292 | 1 260 | 0.58 | -0.11 | 262 | 252 | -2.72 | 0.04 | 172 | 151 | 1.23 | -0.98 |
| European Union ¹ | 637 | 628 | 0.11 | 0.01 | 164 | 151 | -1.79 | -0.21 | 56 | 65 | 6.12 | 0.94 |
| United Kingdom | 307 | 290 | 0.51 | -0.45 | 88 | 92 | -3.33 | 0.45 | 97 | 69 | -2.15 | -2.54 |
| Russia | 215 | 205 | 1.73 | 0.00 | 2 | 2 | -18.82 | 0.27 | 12 | 11 | 200.25 | 0.00 |
| Ukraine | 15 | 15 | -3.46 | -0.06 | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| AFRICA | 3 402 | 4 332 | 1.77 | 2.26 | 18 | 16 | -10.41 | 1.53 | 30 | 25 | -1.03 | -1.94 |
| Egypt | 82 | 107 | -5.90 | 2.40 | 1 | 0 | -9.19 | -1.90 | 0 | 0 | .. | .. |
| Ethiopia | 196 | 274 | 3.02 | 3.48 | 0 | 0 | .. | .. | 13 | 14 | -1.40 | 3.00 |
| Nigeria | 417 | 457 | 1.98 | 1.23 | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| South Africa | 165 | 178 | -0.30 | 0.21 | 4 | 2 | -19.13 | 2.36 | 1 | 1 | -0.90 | -0.87 |
| ASIA | 9 452 | 10 966 | 2.65 | 1.48 | 678 | 720 | 6.02 | 0.91 | 33 | 18 | -4.68 | -2.06 |
| China ² | 4 849 | 5 543 | 2.63 | 1.28 | 359 | 373 | 14.32 | 0.02 | 0 | 0 | -33.80 | .. |
| India | 831 | 993 | 1.33 | 1.92 | 0 | 0 | .. | .. | 14 | 2 | -0.85 | -10.47 |
| Indonesia | 159 | 174 | 5.03 | 0.94 | 2 | 3 | 6.14 | 6.77 | 0 | 0 | .. | .. |
| Iran | 281 | 253 | -4.70 | -0.24 | 18 | 1 | -12.54 | .. | 0 | 0 | .. | .. |
| Japan | 0 | 0 | .. | .. | 23 | 19 | -1.56 | -1.89 | 0 | 0 | .. | .. |
| Kazakhstan | 171 | 178 | 1.62 | 0.35 | 0 | 0 | .. | .. | 2 | 1 | 108.42 | -6.04 |
| Korea | 2 | 2 | 2.43 | 0.00 | 17 | 18 | 18.34 | 0.10 | 0 | 0 | .. | .. |
| Malaysia | 2 | 1 | -4.85 | -4.00 | 35 | 50 | 7.52 | 2.66 | 0 | 0 | .. | .. |
| Pakistan | 732 | 927 | 7.17 | 2.40 | 0 | 0 | .. | .. | 5 | 7 | -14.52 | 0.62 |
| Philippines | 61 | 82 | 1.49 | 2.99 | 1 | 1 | 0.22 | 10.71 | 0 | 0 | .. | .. |
| Saudi Arabia | 0 | 0 | -46.19 | .. | 27 | 27 | -9.08 | 0.93 | 1 | 1 | -11.74 | -0.92 |
| Thailand | 2 | 3 | 4.67 | 2.11 | 1 | 1 | 1.98 | 1.35 | 0 | 0 | .. | .. |
| Turkey | 454 | 479 | 5.47 | 0.23 | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| Viet Nam | 20 | 30 | 13.61 | 3.90 | 1 | 1 | -19.55 | 0.41 | 0 | 0 | .. | .. |
| OCEANIA | 1 169 | 1 233 | 0.43 | 0.98 | 26 | 27 | -1.36 | 1.01 | 909 | 967 | 2.42 | 0.82 |
| Australia | 709 | 796 | 0.87 | 1.70 | 0 | 0 | .. | .. | 471 | 542 | 4.20 | 1.64 |
| New Zealand | 460 | 437 | -0.20 | -0.21 | 3 | 4 | -0.27 | 0.00 | 438 | 425 | 0.81 | -0.15 |
| DEVELOPED COUNTRIES | 3 479 | 3 688 | 0.88 | 0.79 | 421 | 401 | -1.22 | 0.07 | 1 091 | 1 124 | 2.22 | 0.54 |
| DEVELOPING COUNTRIES | 12 383 | 14 671 | 2.37 | 1.64 | 710 | 751 | 5.27 | 0.98 | 78 | 61 | -3.56 | -2.02 |
| LEAST DEVELOPED COUNTRIES (LDC) | 2 221 | 2 944 | 2.39 | 2.78 | 3 | 3 | 4.16 | -0.42 | 4 | 2 | 0.99 | -7.72 |
| OECD³ | 2 827 | 2 898 | 0.99 | 0.41 | 438 | 420 | -0.32 | 0.06 | 1 072 | 1 111 | 2.02 | 0.56 |
| BRICS | 6 193 | 7 056 | 2.32 | 1.28 | 371 | 381 | 11.24 | 0.04 | 27 | 15 | 2.94 | -2.19 |

.. Not available

Note: Calendar year; except year ending 30 September for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Gross indigenous production.
5. Least-squares growth rate (see glossary).
6. Excludes trade of live animals.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.29.2. Sheep meat projections: Consumption, food

Calendar year

| | CONSUMPTION (kt cwe) | | Growth (%) ⁴ | | FOOD (kg rwe/cap) ⁵ | | Growth (%) ⁴ | |
|---------------------------------|----------------------|---------------|-------------------------|-------------|--------------------------------|------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 15 901 | 18 395 | 2.15 | 1.46 | 1.8 | 1.9 | 1.00 | 0.54 |
| NORTH AMERICA | 209 | 202 | 2.55 | 0.01 | 0.5 | 0.5 | 1.83 | -0.56 |
| Canada | 38 | 40 | 1.21 | 0.32 | 0.9 | 0.9 | 0.22 | -0.46 |
| United States | 171 | 162 | 2.88 | -0.06 | 0.5 | 0.4 | 2.19 | -0.61 |
| LATIN AMERICA | 458 | 478 | 0.57 | 0.30 | 0.6 | 0.6 | -0.42 | -0.46 |
| Argentina | 50 | 54 | -1.40 | 0.77 | 1.0 | 1.0 | -2.37 | -0.05 |
| Brazil | 139 | 141 | 1.90 | 0.09 | 0.6 | 0.6 | 1.07 | -0.41 |
| Chile | 9 | 8 | -2.37 | -0.36 | 0.4 | 0.3 | -3.53 | -0.48 |
| Colombia | 11 | 12 | 3.55 | 0.22 | 0.2 | 0.2 | 2.27 | -0.23 |
| Mexico | 115 | 119 | 0.39 | 0.36 | 0.8 | 0.7 | -0.81 | -0.51 |
| Paraguay | 2 | 3 | -5.98 | 0.68 | 0.3 | 0.3 | -7.21 | -0.39 |
| Peru | 39 | 42 | -0.79 | 0.84 | 1.0 | 1.0 | -2.14 | -0.02 |
| EUROPE | 1 319 | 1 317 | -0.60 | 0.18 | 1.6 | 1.6 | -0.75 | 0.28 |
| European Union ¹ | 688 | 675 | -1.35 | 0.18 | 1.4 | 1.3 | -1.48 | 0.26 |
| United Kingdom | 297 | 314 | 0.16 | 0.34 | 3.9 | 3.9 | -0.49 | -0.03 |
| Russia | 202 | 193 | 0.13 | 0.00 | 1.2 | 1.2 | -0.05 | 0.20 |
| Ukraine | 14 | 15 | -4.13 | -0.04 | 0.3 | 0.3 | -3.68 | 0.64 |
| AFRICA | 3 325 | 4 179 | 1.82 | 2.13 | 2.3 | 2.2 | -0.76 | -0.19 |
| Egypt | 82 | 107 | -5.93 | 2.38 | 0.7 | 0.8 | -7.91 | 0.72 |
| Ethiopia | 183 | 260 | 3.51 | 3.52 | 1.4 | 1.6 | 0.74 | 1.17 |
| Nigeria | 421 | 463 | 1.93 | 1.25 | 1.8 | 1.5 | -0.71 | -1.18 |
| South Africa | 173 | 180 | -0.90 | 0.24 | 2.6 | 2.4 | -2.35 | -0.80 |
| ASIA | 10 323 | 11 948 | 2.89 | 1.46 | 2.0 | 2.1 | 1.90 | 0.77 |
| China ² | 5 207 | 5 916 | 3.13 | 1.20 | 3.2 | 3.6 | 2.62 | 1.04 |
| India | 806 | 980 | 1.21 | 1.99 | 0.5 | 0.6 | 0.11 | 1.13 |
| Indonesia | 161 | 177 | 5.12 | 1.01 | 0.5 | 0.5 | 3.85 | 0.12 |
| Iran | 281 | 248 | -4.01 | -0.05 | 3.0 | 2.4 | -5.28 | -1.00 |
| Japan | 23 | 19 | -1.56 | -1.89 | 0.2 | 0.1 | -1.39 | -1.42 |
| Kazakhstan | 169 | 177 | 1.44 | 0.38 | 8.0 | 7.6 | -0.02 | -0.53 |
| Korea | 19 | 19 | 15.84 | 0.09 | 0.3 | 0.3 | 15.46 | 0.13 |
| Malaysia | 39 | 53 | 6.67 | 2.38 | 1.1 | 1.3 | 5.23 | 1.29 |
| Pakistan | 727 | 920 | 7.58 | 2.41 | 3.0 | 3.1 | 5.37 | 0.66 |
| Philippines | 62 | 83 | 1.48 | 3.06 | 0.5 | 0.6 | -0.05 | 1.83 |
| Saudi Arabia | 172 | 186 | -0.77 | 0.49 | 4.4 | 4.2 | -3.03 | -0.69 |
| Thailand | 3 | 4 | 1.53 | 2.15 | 0.0 | 0.0 | 1.15 | 2.09 |
| Turkey | 454 | 479 | 4.89 | 0.23 | 4.8 | 4.7 | 3.26 | -0.28 |
| Viet Nam | 21 | 30 | 7.68 | 3.83 | 0.2 | 0.3 | 6.59 | 3.15 |
| OCEANIA | 266 | 272 | -2.59 | 1.36 | 5.7 | 5.1 | -3.99 | 0.20 |
| Australia | 221 | 230 | -2.50 | 1.65 | 7.7 | 7.2 | -3.82 | 0.66 |
| New Zealand | 21 | 18 | -4.49 | -1.53 | 3.8 | 3.1 | -5.41 | -2.21 |
| DEVELOPED COUNTRIES | 2 720 | 2 894 | 0.16 | 0.86 | 1.7 | 1.7 | -0.26 | 0.65 |
| DEVELOPING COUNTRIES | 13 181 | 15 501 | 2.60 | 1.57 | 1.9 | 1.9 | 1.28 | 0.50 |
| LEAST DEVELOPED COUNTRIES (LDC) | 2 145 | 2 794 | 2.55 | 2.56 | 2.2 | 2.2 | 0.20 | 0.37 |
| OECD ³ | 2 121 | 2 153 | 0.38 | 0.33 | 1.3 | 1.3 | -0.18 | 0.06 |
| BRICS | 6 526 | 7 409 | 2.62 | 1.22 | 1.8 | 1.9 | 1.83 | 0.74 |

Note: Calendar year; except year ending 30 September for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).
5. Per capita consumption expressed in retail weight. Carcass weight to retail weight conversion factors of 0.7 for beef and veal, 0.78 for pigmeat and 0.88 for both sheep meat and poultry meat.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.30. Main policy assumptions for meat markets

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-------------------------------------|------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ARGENTINA | | | | | | | | | | | | |
| Beef export tax ¹ | % | 8.0 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| CANADA | | | | | | | | | | | | |
| Beef tariff-quota | kt pw | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 | 129.2 |
| In-quota tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Out-of-quota tariff | % | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 |
| Poultry meat tariff-quota | kt pw | 100.2 | 102.6 | 106.2 | 108.6 | 110.3 | 112.0 | 113.7 | 115.4 | 117.2 | 118.9 | 120.7 |
| In-quota tariff | % | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Out-of-quota tariff | % | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 |
| EUROPEAN UNION^{2,3} | | | | | | | | | | | | |
| Voluntary coupled support | | | | | | | | | | | | |
| Beef and veal ⁴ | mIn EUR | 1 693 | 1 693 | 1 693 | 1 693 | 1 693 | 1 693 | 1 693 | 1 693 | 1 693 | 1 693 | 1 693 |
| Sheep and goat meat ⁵ | mIn EUR | 491 | 496 | 496 | 496 | 496 | 496 | 496 | 496 | 496 | 496 | 496 |
| Beef basic price ⁶ | EUR/kg dwt | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| Beef buy-in price ^{6,7} | EUR/kg dwt | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| Beef tariff-quota | kt cwe | 359.8 | 378.3 | 387.5 | 389.0 | 390.6 | 392.2 | 392.7 | 393.2 | 393.7 | 394.2 | 394.7 |
| Pig tariff-quota | kt cwe | 203.5 | 230.3 | 245.7 | 246.6 | 247.5 | 248.4 | 249.3 | 250.2 | 251.1 | 252.0 | 252.9 |
| Poultry tariff-quota | kt rtc | 1 017.9 | 1 024.3 | 1 026.3 | 1 028.4 | 1 030.5 | 1 032.5 | 1 034.6 | 1 036.7 | 1 038.7 | 1 040.8 | 1 042.9 |
| Sheep meat tariff-quota | kt cwe | 296.0 | 296.5 | 296.7 | 296.9 | 297.1 | 297.1 | 297.5 | 297.7 | 297.9 | 298.1 | 298.3 |
| JAPAN⁸ | | | | | | | | | | | | |
| Beef stabilisation prices | | | | | | | | | | | | |
| Upper price | JPY/kg dwt | 418.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lower price | JPY/kg dwt | 308.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Beef tariff | % | 31.9 | 26.0 | 25.2 | 24.4 | 23.6 | 22.7 | 21.9 | 21.1 | 20.2 | 18.6 | 16.8 |
| Pigmeat stabilisation prices | | | | | | | | | | | | |
| Upper price | JPY/kg dwt | 198.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lower price | JPY/kg dwt | 146.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pig meat import system | | | | | | | | | | | | |
| Tariff | % | 3.0 | 1.8 | 1.5 | 1.3 | 1.0 | 0.8 | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 |
| Standard import price | JPY/kg dwt | 373.1 | 351.7 | 361.1 | 311.8 | 289.1 | 279.5 | 268.8 | 260.0 | 249.6 | 243.6 | 238.0 |
| Poultry meat tariff | % | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| KOREA | | | | | | | | | | | | |
| Beef tariff | % | 18.6 | 13.3 | 10.6 | 8.0 | 5.3 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pigmeat tariff | % | 18.6 | 13.3 | 10.6 | 8.0 | 5.3 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Poultry meat tariff | % | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 |
| MEXICO⁹ | | | | | | | | | | | | |
| Beef and veal tariff-quota | kt pw | 146.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| In-quota tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Out-of-quota tariff ¹⁰ | % | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| Poultry meat tariff-quota | kt pw | 200.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| In-quota tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Out-of-quota tariff | % | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 |
| RUSSIA | | | | | | | | | | | | |
| Beef tariff-quota | kt pw | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 |
| In-quota tariff | % | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| Out-of-quota tariff | % | 51.7 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| Pigmeat tariff-quota ¹¹ | kt pw | 286.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| In-quota tariff | % | 0.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| Out-of-quota tariff | % | 51.7 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| Poultry tariff-quota | kt pw | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 |
| In-quota tariff | % | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| Out-of-quota tariff | % | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 |
| UNITED STATES | | | | | | | | | | | | |
| Beef tariff-quota | kt pw | 696.6 | 696.6 | 696.6 | 696.6 | 696.6 | 696.6 | 696.6 | 696.6 | 696.6 | 696.6 | 696.6 |
| In-quota tariff | % | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| Out-of-quota tariff | % | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 |

ANNEX C

Table C.30. Main policy assumptions for meat markets (cont.)

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---------------------|---|-----------------------|------|------|------|------|------|------|------|------|------|------|
| CHINA | | | | | | | | | | | | |
| Beef tariff | % | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| Pigmeat tariff | % | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| Sheep meat tariff | % | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| Poultry meat tariff | % | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 |
| INDIA | | | | | | | | | | | | |
| Beef tariff | % | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 |
| Pigmeat tariff | % | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Sheep meat tariff | % | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Poultry meat tariff | % | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 | 36.4 |
| SOUTH AFRICA | | | | | | | | | | | | |
| Beef tariff | % | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Pigmeat tariff | % | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Sheep meat tariff | % | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Poultry meat tariff | % | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 |

Note: Average 2018-20est: Data for 2020 are estimated.

1. In Argentina, a temporary export tax is applied on all goods from September 4th 2018 until December 31st 2020.
2. Since 2015 the Basic payment scheme (BPS) holds, which shall account for the maximum of the national direct payment envelopes. On top of this, compulsory policy instruments have been introduced: the Green Payment and young farmer scheme. More details can be found in here: https://ec.europa.eu/info/sites/info/files/food-farming-fisheries/key_policies/documents/voluntary-coupled-support-note-revised-aug2018_en.pdf
3. Refers to all current European Union member States (excludes the United Kingdom)
4. Implemented in 24 Member States.
5. Implemented in 22 Member States.
6. Price for R3 grade male cattle.
7. Safety-net trigger.
8. Year beginning 1 April.
9. Intended for countries which whom Mexico has no free trade agreements.
10. 25% for frozen beef.
11. Eliminated in 2020 and replaced by import tariff.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.31.1. Butter projections: Production and trade

Calendar year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|---------------|-------------------------|-------------|--------------------|--------------|-------------------------|-------------|--------------------|--------------|-------------------------|---------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 11 611 | 14 290 | 2.34 | 1.90 | 1 057 | 1 145 | 1.82 | 1.09 | 1 033 | 1 145 | 0.52 | 1.09 |
| NORTH AMERICA | 1 035 | 1 168 | 1.55 | 0.96 | 56 | 56 | 23.35 | -0.66 | 21 | 34 | -14.27 | 8.65 |
| Canada | 116 | 135 | 3.57 | 1.13 | 18 | 21 | 14.90 | 2.73 | 0 | 0 | -17.41 | .. |
| United States | 920 | 1 033 | 1.32 | 0.94 | 38 | 35 | 30.45 | -2.25 | 20 | 34 | -14.19 | 8.65 |
| LATIN AMERICA | 435 | 508 | 1.38 | 1.38 | 59 | 76 | 4.58 | 2.37 | 36 | 45 | -5.19 | 2.69 |
| Argentina | 29 | 34 | -8.19 | 1.01 | 0 | 0 | .. | .. | 8 | 6 | -9.43 | 2.08 |
| Brazil | 104 | 109 | 3.66 | 0.46 | 3 | 8 | 10.32 | 8.88 | 0 | 1 | -16.30 | -1.17 |
| Chile | 23 | 32 | 1.06 | 3.11 | 6 | 2 | 21.06 | -6.04 | 2 | 4 | -7.01 | 6.22 |
| Colombia | 17 | 17 | -2.27 | 0.04 | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| Mexico | 200 | 237 | 3.37 | 1.36 | 27 | 38 | 5.95 | 2.52 | 9 | 12 | 19.09 | 1.68 |
| Paraguay | 1 | 1 | 0.38 | .. | 0 | 0 | .. | .. | 0 | 1 | .. | .. |
| Peru | 4 | 4 | 2.50 | 1.85 | 8 | 17 | 5.35 | 5.63 | 0 | 0 | .. | .. |
| EUROPE | 3 086 | 3 256 | 2.33 | 0.45 | 291 | 303 | 0.51 | 0.97 | 431 | 536 | 3.34 | 1.51 |
| European Union ¹ | 2 327 | 2 477 | 2.22 | 0.39 | 52 | 55 | -3.95 | 0.26 | 277 | 375 | 3.58 | 1.69 |
| United Kingdom | 176 | 153 | 3.58 | 0.23 | 108 | 99 | 0.52 | 0.96 | 45 | 41 | 0.98 | -0.96 |
| Russia | 292 | 306 | 4.21 | 0.50 | 114 | 121 | 3.14 | 1.41 | 3 | 3 | -1.65 | 0.00 |
| Ukraine | 93 | 82 | 0.95 | -0.65 | 6 | 20 | -10.30 | 3.75 | 20 | 8 | 36.50 | -3.61 |
| AFRICA | 285 | 353 | -1.37 | 2.37 | 95 | 112 | -6.52 | 1.55 | 6 | 7 | -5.66 | -0.61 |
| Egypt | 98 | 115 | -2.92 | 2.16 | 33 | 40 | -10.86 | 1.40 | 2 | 3 | -8.33 | -0.41 |
| Ethiopia | 14 | 16 | -3.67 | 2.43 | 0 | 1 | .. | .. | 0 | 0 | .. | .. |
| Nigeria | 12 | 17 | -0.89 | 3.84 | 13 | 18 | 4.49 | 2.96 | 0 | 0 | .. | .. |
| South Africa | 22 | 27 | 2.58 | 2.18 | 6 | 7 | 7.13 | 1.58 | 3 | 2 | 10.25 | -1.55 |
| ASIA | 6 213 | 8 445 | 3.05 | 2.79 | 516 | 555 | 3.03 | 1.17 | 68 | 48 | 5.74 | -1.90 |
| China ² | 109 | 114 | 0.58 | 0.53 | 115 | 148 | 13.65 | 2.64 | 2 | 2 | -0.78 | 1.00 |
| India | 4 555 | 6 335 | 3.42 | 2.88 | 0 | 3 | -12.40 | 20.37 | 30 | 0 | 16.41 | -40.39 |
| Indonesia | 0 | 0 | .. | .. | 23 | 26 | 4.59 | 2.61 | 1 | 1 | 8.39 | -2.54 |
| Iran | 144 | 120 | -2.29 | -1.28 | 24 | 35 | -12.88 | 10.14 | 1 | 0 | 13.64 | .. |
| Japan | 66 | 63 | 0.34 | -0.56 | 20 | 18 | 7.16 | 0.00 | 0 | 0 | .. | .. |
| Kazakhstan | 21 | 32 | 5.95 | 4.06 | 6 | 10 | -1.45 | 3.50 | 2 | 1 | 67.01 | -3.26 |
| Korea | 3 | 3 | 2.43 | 0.31 | 13 | 19 | 8.96 | 3.14 | 0 | 0 | .. | .. |
| Malaysia | 0 | 0 | .. | .. | 20 | 25 | 4.32 | 2.30 | 6 | 4 | 5.06 | -2.25 |
| Pakistan | 851 | 1 147 | 3.05 | 3.15 | 1 | 0 | 13.20 | .. | 0 | 0 | .. | .. |
| Philippines | 0 | 0 | .. | .. | 34 | 43 | 8.53 | 2.96 | 0 | 0 | .. | .. |
| Saudi Arabia | 5 | 9 | -2.34 | 4.69 | 48 | 56 | -1.95 | 1.20 | 7 | 7 | 9.82 | -1.18 |
| Thailand | 0 | 0 | .. | .. | 13 | 15 | 0.65 | 1.25 | 1 | 1 | 3.91 | -1.24 |
| Turkey | 256 | 330 | 4.05 | 2.41 | 22 | 0 | 3.58 | -44.70 | 1 | 1 | 4.18 | 5.38 |
| Viet Nam | 0 | 0 | .. | .. | 19 | 21 | 3.72 | 0.66 | 0 | 0 | .. | .. |
| OCEANIA | 558 | 560 | -0.54 | 0.38 | 41 | 42 | 7.73 | 0.19 | 471 | 475 | -0.48 | 0.48 |
| Australia | 77 | 73 | -6.33 | -0.32 | 37 | 36 | 9.18 | 0.00 | 19 | 12 | -13.58 | -0.05 |
| New Zealand | 479 | 486 | 0.69 | 0.50 | 1 | 1 | 1.59 | 1.00 | 452 | 463 | 0.59 | 0.50 |
| DEVELOPED COUNTRIES | 4 829 | 5 194 | 1.78 | 0.65 | 447 | 451 | 3.12 | 0.34 | 932 | 1 066 | 0.63 | 1.30 |
| DEVELOPING COUNTRIES | 6 782 | 9 096 | 2.75 | 2.68 | 610 | 693 | 0.93 | 1.61 | 102 | 79 | -0.64 | -1.46 |
| LEAST DEVELOPED COUNTRIES (LDC) | 207 | 247 | 0.76 | 1.68 | 12 | 23 | -3.93 | 8.36 | 2 | 2 | -8.02 | 0.12 |
| OECD³ | 4 721 | 5 104 | 1.79 | 0.68 | 349 | 340 | 4.14 | 0.02 | 828 | 945 | 0.20 | 1.12 |
| BRICS | 5 081 | 6 892 | 3.40 | 2.67 | 239 | 287 | 6.97 | 2.27 | 38 | 8 | 10.14 | -13.44 |

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.31.2. Butter projections: Consumption, food

Calendar year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | | FOOD (kg/cap) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|---------------|-------------------------|--------------|--------------------|------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 11 632 | 14 283 | 2.53 | 1.89 | 1.5 | 1.7 | 1.33 | 0.97 |
| NORTH AMERICA | 1 062 | 1 190 | 2.79 | 0.71 | 2.9 | 3.0 | 2.07 | 0.13 |
| Canada | 132 | 155 | 4.66 | 1.36 | 3.5 | 3.8 | 3.63 | 0.58 |
| United States | 930 | 1 035 | 2.55 | 0.62 | 2.8 | 3.0 | 1.86 | 0.06 |
| LATIN AMERICA | 462 | 539 | 2.79 | 1.41 | 0.7 | 0.8 | 1.77 | 0.65 |
| Argentina | 25 | 27 | -3.50 | 0.78 | 0.6 | 0.6 | -4.46 | -0.03 |
| Brazil | 107 | 117 | 3.91 | 0.88 | 0.5 | 0.5 | 3.06 | 0.38 |
| Chile | 27 | 31 | 4.33 | 1.73 | 1.4 | 1.6 | 3.09 | 1.61 |
| Colombia | 17 | 17 | -2.33 | 0.03 | 0.3 | 0.3 | -3.54 | -0.42 |
| Mexico | 218 | 263 | 3.35 | 1.51 | 1.7 | 1.9 | 2.11 | 0.63 |
| Paraguay | 0 | 0 | .. | .. | 0.0 | 0.0 | -40.76 | 0.76 |
| Peru | 12 | 22 | 4.44 | 4.73 | 0.4 | 0.6 | 3.02 | 3.84 |
| EUROPE | 2 934 | 3 023 | 2.02 | 0.33 | 3.9 | 4.1 | 1.71 | 0.42 |
| European Union ¹ | 2 102 | 2 157 | 2.05 | 0.18 | 4.7 | 4.9 | 1.92 | 0.27 |
| United Kingdom | 227 | 211 | 1.61 | 0.83 | 3.4 | 3.0 | 0.95 | 0.46 |
| Russia | 403 | 425 | 3.52 | 0.75 | 2.8 | 3.0 | 2.11 | 0.96 |
| Ukraine | 79 | 94 | -2.15 | 0.43 | 1.8 | 2.3 | -1.69 | 1.12 |
| AFRICA | 373 | 458 | -2.80 | 2.21 | 0.3 | 0.3 | -5.26 | -0.11 |
| Egypt | 129 | 153 | -5.42 | 2.00 | 1.3 | 1.3 | -7.42 | 0.35 |
| Ethiopia | 14 | 17 | -3.58 | 2.80 | 0.1 | 0.1 | -6.15 | 0.46 |
| Nigeria | 25 | 35 | 1.99 | 3.37 | 0.1 | 0.1 | -0.65 | 0.90 |
| South Africa | 26 | 32 | 3.18 | 2.37 | 0.4 | 0.5 | 1.68 | 1.31 |
| ASIA | 6 655 | 8 946 | 3.01 | 2.71 | 1.5 | 1.8 | 2.02 | 2.01 |
| China ² | 222 | 259 | 5.68 | 1.68 | 0.2 | 0.2 | 5.16 | 1.53 |
| India | 4 525 | 6 338 | 3.36 | 2.93 | 3.3 | 4.2 | 2.23 | 2.06 |
| Indonesia | 22 | 25 | 4.51 | 2.89 | 0.1 | 0.1 | 3.24 | 1.99 |
| Iran | 167 | 154 | -3.75 | 0.38 | 2.0 | 1.7 | -5.01 | -0.57 |
| Japan | 83 | 81 | 0.57 | -0.44 | 0.7 | 0.7 | 0.75 | 0.04 |
| Kazakhstan | 26 | 41 | 3.07 | 4.19 | 1.4 | 2.0 | 1.59 | 3.24 |
| Korea | 13 | 16 | 4.82 | 1.48 | 0.3 | 0.3 | 4.48 | 1.52 |
| Malaysia | 14 | 22 | 3.79 | 3.31 | 0.4 | 0.6 | 2.40 | 2.21 |
| Pakistan | 852 | 1 147 | 3.06 | 3.15 | 3.9 | 4.4 | 0.94 | 1.39 |
| Philippines | 34 | 43 | 8.45 | 3.00 | 0.3 | 0.3 | 6.82 | 1.78 |
| Saudi Arabia | 46 | 59 | -3.04 | 1.98 | 1.4 | 1.5 | -5.25 | 0.78 |
| Thailand | 12 | 14 | 0.40 | 1.36 | 0.2 | 0.2 | 0.02 | 1.30 |
| Turkey | 277 | 330 | 4.07 | 1.67 | 3.3 | 3.7 | 2.45 | 1.15 |
| Viet Nam | 19 | 21 | 3.73 | 0.66 | 0.2 | 0.2 | 2.68 | 0.00 |
| OCEANIA | 145 | 127 | 6.44 | -0.04 | 3.5 | 2.7 | 4.91 | -1.19 |
| Australia | 113 | 97 | 5.90 | -0.24 | 4.5 | 3.5 | 4.46 | -1.21 |
| New Zealand | 27 | 25 | 17.71 | 0.50 | 5.7 | 4.7 | 16.57 | -0.19 |
| DEVELOPED COUNTRIES | 4 339 | 4 579 | 2.32 | 0.47 | 3.0 | 3.1 | 1.77 | 0.27 |
| DEVELOPING COUNTRIES | 7 292 | 9 704 | 2.65 | 2.64 | 1.2 | 1.4 | 1.33 | 1.55 |
| LEAST DEVELOPED COUNTRIES (LDC) | 217 | 268 | 0.58 | 2.12 | 0.3 | 0.2 | -1.73 | -0.06 |
| OECD³ | 4 236 | 4 492 | 2.48 | 0.53 | 3.0 | 3.1 | 1.91 | 0.26 |
| BRICS | 5 282 | 7 171 | 3.46 | 2.70 | 1.6 | 2.1 | 2.56 | 2.21 |

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.32.1. Cheese projections: Production and trade

Calendar year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|---------------|-------------------------|-------------|--------------------|--------------|-------------------------|-------------|--------------------|--------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 24 067 | 27 613 | 1.64 | 1.23 | 3 243 | 3 857 | 2.87 | 1.49 | 3 262 | 3 857 | 1.67 | 1.49 |
| NORTH AMERICA | 6 443 | 7 547 | 2.75 | 1.43 | 166 | 193 | -0.77 | 1.19 | 363 | 400 | 3.76 | 1.08 |
| Canada | 489 | 537 | 3.25 | 1.36 | 33 | 67 | 5.19 | 2.75 | 10 | 10 | 0.75 | 0.29 |
| United States | 5 955 | 7 010 | 2.71 | 1.43 | 133 | 127 | -1.91 | 0.46 | 352 | 389 | 3.86 | 1.10 |
| LATIN AMERICA | 2 131 | 2 644 | -0.67 | 1.93 | 371 | 441 | 4.34 | 1.56 | 161 | 158 | -0.14 | -0.22 |
| Argentina | 441 | 523 | -3.30 | 1.66 | 2 | 1 | -11.96 | 0.00 | 63 | 63 | 0.03 | 0.02 |
| Brazil | 760 | 987 | 1.19 | 2.33 | 29 | 31 | -0.52 | 2.05 | 3 | 5 | 2.89 | 3.70 |
| Chile | 100 | 130 | 2.51 | 2.32 | 48 | 49 | 16.61 | -0.14 | 9 | 9 | -0.13 | 0.14 |
| Colombia | 49 | 50 | -2.27 | 0.48 | 5 | 4 | 17.58 | -2.44 | 1 | 1 | 0.83 | 0.45 |
| Mexico | 324 | 386 | 1.44 | 1.21 | 125 | 165 | 5.20 | 2.87 | 2 | 4 | 26.67 | 7.81 |
| Paraguay | 0 | 0 | .. | .. | 5 | 6 | 14.82 | 2.34 | 0 | 0 | .. | .. |
| Peru | 25 | 33 | 2.95 | 2.71 | 8 | 9 | 10.06 | 1.58 | 0 | 0 | .. | .. |
| EUROPE | 12 221 | 13 626 | 1.85 | 0.90 | 1 159 | 1 343 | 0.96 | 1.17 | 1 889 | 2 412 | 2.65 | 2.06 |
| European Union ¹ | 10 437 | 11 543 | 1.78 | 0.86 | 209 | 217 | 2.32 | 0.45 | 1 325 | 1 764 | 2.18 | 2.48 |
| United Kingdom | 465 | 489 | 2.49 | 0.33 | 525 | 560 | 2.46 | 0.47 | 187 | 167 | 5.76 | -1.09 |
| Russia | 507 | 667 | 1.68 | 1.82 | 268 | 343 | -4.06 | 2.32 | 26 | 24 | 4.64 | -0.66 |
| Ukraine | 194 | 190 | 0.88 | 0.17 | 30 | 95 | 8.38 | 6.24 | 7 | 4 | -26.60 | -4.62 |
| AFRICA | 926 | 1 069 | -1.21 | 1.51 | 137 | 172 | -2.59 | 1.76 | 98 | 82 | -6.02 | -1.61 |
| Egypt | 506 | 575 | -2.88 | 1.34 | 27 | 34 | -6.40 | 1.56 | 73 | 65 | -6.54 | -1.54 |
| Ethiopia | 6 | 8 | 0.00 | 2.23 | 0 | 1 | .. | .. | 0 | 0 | .. | .. |
| Nigeria | 9 | 10 | -1.45 | 0.21 | 1 | 2 | 2.59 | 10.04 | 0 | 0 | .. | .. |
| South Africa | 100 | 110 | 2.16 | 1.08 | 10 | 10 | 0.78 | 2.32 | 11 | 9 | 20.32 | -2.27 |
| ASIA | 1 597 | 1 952 | 0.71 | 2.12 | 1 299 | 1 587 | 5.66 | 1.83 | 256 | 301 | -1.98 | 1.89 |
| China ² | 278 | 291 | 0.56 | 0.50 | 118 | 169 | 17.85 | 2.60 | 0 | 0 | .. | .. |
| India | 4 | 6 | 11.40 | 3.86 | 3 | 3 | 15.04 | -1.70 | 8 | 9 | 14.65 | 1.73 |
| Indonesia | 0 | 0 | .. | .. | 30 | 36 | 5.99 | 2.36 | 1 | 1 | 10.07 | -2.30 |
| Iran | 209 | 210 | -2.46 | 0.07 | 0 | 0 | .. | .. | 56 | 40 | 11.83 | -2.83 |
| Japan | 45 | 45 | -0.56 | 0.06 | 291 | 363 | 3.75 | 2.63 | 0 | 0 | .. | .. |
| Kazakhstan | 25 | 33 | 3.56 | 2.82 | 20 | 28 | -1.71 | 1.79 | 2 | 2 | 43.08 | -1.73 |
| Korea | 26 | 23 | 2.00 | 0.10 | 133 | 175 | 7.58 | 2.25 | 0 | 0 | .. | .. |
| Malaysia | 0 | 0 | .. | .. | 27 | 38 | 10.35 | 2.71 | 1 | 1 | 14.71 | -2.64 |
| Pakistan | 0 | 0 | .. | .. | 4 | 5 | 14.63 | 4.12 | 0 | 0 | .. | .. |
| Philippines | 0 | 0 | .. | .. | 38 | 48 | 11.53 | 2.76 | 0 | 0 | -18.38 | .. |
| Saudi Arabia | 173 | 225 | 0.91 | 3.15 | 175 | 195 | 4.14 | 0.57 | 81 | 76 | -10.54 | -0.57 |
| Thailand | 5 | 4 | 0.00 | -1.20 | 17 | 22 | 10.45 | 2.69 | 1 | 1 | .. | -2.62 |
| Turkey | 245 | 342 | 3.70 | 3.28 | 11 | 6 | 5.26 | -7.26 | 56 | 116 | 6.90 | 7.83 |
| Viet Nam | 0 | 0 | .. | .. | 11 | 11 | 13.31 | 0.64 | 0 | 0 | .. | .. |
| OCEANIA | 748 | 775 | 2.37 | 0.37 | 111 | 120 | 5.11 | 0.57 | 495 | 504 | 2.07 | 0.20 |
| Australia | 383 | 399 | 1.72 | 0.38 | 98 | 105 | 4.35 | 0.56 | 166 | 168 | 0.18 | 0.02 |
| New Zealand | 366 | 376 | 3.08 | 0.36 | 12 | 13 | 13.70 | 0.50 | 330 | 337 | 3.13 | 0.29 |
| DEVELOPED COUNTRIES | 19 866 | 22 522 | 2.15 | 1.09 | 1 786 | 2 069 | 1.50 | 1.25 | 2 767 | 3 346 | 2.73 | 1.66 |
| DEVELOPING COUNTRIES | 4 202 | 5 091 | -0.54 | 1.85 | 1 457 | 1 788 | 4.76 | 1.78 | 495 | 512 | -2.82 | 0.47 |
| LEAST DEVELOPED COUNTRIES (LDC) | 377 | 464 | 1.13 | 2.12 | 23 | 31 | -2.30 | 2.39 | 0 | 0 | .. | .. |
| OECD³ | 19 310 | 21 805 | 2.12 | 1.08 | 1 716 | 1 952 | 3.44 | 1.17 | 2 521 | 3 053 | 2.64 | 1.76 |
| BRICS | 1 650 | 2 063 | 1.31 | 1.82 | 427 | 556 | -0.25 | 2.36 | 48 | 46 | 7.97 | -0.15 |

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.32.2. Cheese projections: Consumption, food

Calendar year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | | FOOD (kg/cap) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|---------------|-------------------------|-------------|--------------------|-------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 24 044 | 27 613 | 1.79 | 1.24 | 3.1 | 3.2 | 0.64 | 0.32 |
| NORTH AMERICA | 6 243 | 7 341 | 2.58 | 1.47 | 17.0 | 18.8 | 1.86 | 0.89 |
| Canada | 513 | 593 | 3.59 | 1.52 | 13.7 | 14.5 | 2.57 | 0.74 |
| United States | 5 729 | 6 748 | 2.49 | 1.46 | 17.4 | 19.3 | 1.81 | 0.91 |
| LATIN AMERICA | 2 341 | 2 927 | -0.03 | 2.01 | 3.6 | 4.2 | -1.02 | 1.24 |
| Argentina | 380 | 461 | -3.81 | 1.90 | 8.5 | 9.4 | -4.77 | 1.08 |
| Brazil | 785 | 1 014 | 1.10 | 2.32 | 3.7 | 4.5 | 0.27 | 1.81 |
| Chile | 139 | 170 | 6.15 | 1.67 | 7.4 | 8.7 | 4.88 | 1.55 |
| Colombia | 53 | 53 | -1.42 | 0.21 | 1.1 | 1.0 | -2.64 | -0.24 |
| Mexico | 447 | 547 | 2.31 | 1.65 | 3.5 | 3.9 | 1.09 | 0.77 |
| Paraguay | 5 | 6 | 16.40 | 2.44 | 0.7 | 0.8 | 14.87 | 1.35 |
| Peru | 32 | 42 | 4.06 | 2.49 | 1.0 | 1.2 | 2.64 | 1.62 |
| EUROPE | 11 491 | 12 556 | 1.63 | 0.72 | 15.4 | 16.9 | 1.47 | 0.82 |
| European Union ¹ | 9 321 | 9 995 | 1.74 | 0.59 | 20.9 | 22.6 | 1.61 | 0.68 |
| United Kingdom | 802 | 882 | 1.81 | 0.72 | 11.9 | 12.5 | 1.15 | 0.35 |
| Russia | 749 | 986 | -0.82 | 2.06 | 5.1 | 6.9 | -1.00 | 2.26 |
| Ukraine | 216 | 281 | 7.28 | 1.95 | 4.9 | 6.9 | 7.78 | 2.65 |
| AFRICA | 966 | 1 160 | -0.74 | 1.80 | 0.7 | 0.7 | -3.24 | -0.51 |
| Egypt | 460 | 545 | -2.26 | 1.75 | 4.6 | 4.5 | -4.33 | 0.10 |
| Ethiopia | 6 | 8 | 0.12 | 3.16 | 0.1 | 0.1 | -2.55 | 0.82 |
| Nigeria | 10 | 12 | -1.14 | 1.39 | 0.1 | 0.0 | -3.70 | -1.04 |
| South Africa | 99 | 112 | 1.00 | 1.50 | 1.7 | 1.7 | -0.47 | 0.45 |
| ASIA | 2 638 | 3 238 | 3.29 | 2.00 | 0.6 | 0.7 | 2.29 | 1.31 |
| China ² | 396 | 460 | 3.83 | 1.22 | 0.3 | 0.3 | 3.31 | 1.07 |
| India | 0 | 0 | .. | .. | 0.0 | 0.0 | -61.03 | 0.18 |
| Indonesia | 28 | 35 | 5.80 | 2.54 | 0.1 | 0.1 | 4.52 | 1.64 |
| Iran | 152 | 170 | -5.29 | 0.89 | 1.8 | 1.8 | -6.53 | -0.07 |
| Japan | 334 | 407 | 3.03 | 2.31 | 2.6 | 3.4 | 3.21 | 2.80 |
| Kazakhstan | 43 | 59 | 0.28 | 2.52 | 2.3 | 2.9 | -1.17 | 1.58 |
| Korea | 159 | 197 | 6.49 | 1.98 | 3.1 | 3.9 | 6.15 | 2.01 |
| Malaysia | 26 | 37 | 10.24 | 2.81 | 0.8 | 1.0 | 8.76 | 1.72 |
| Pakistan | 4 | 5 | 14.63 | 4.12 | 0.0 | 0.0 | 12.28 | 2.35 |
| Philippines | 38 | 47 | 12.48 | 2.78 | 0.3 | 0.4 | 10.78 | 1.56 |
| Saudi Arabia | 267 | 344 | 14.47 | 2.50 | 7.8 | 8.8 | 11.86 | 1.29 |
| Thailand | 21 | 26 | 7.09 | 2.08 | 0.3 | 0.4 | 6.70 | 2.01 |
| Turkey | 199 | 232 | 2.99 | 1.21 | 2.4 | 2.6 | 1.39 | 0.69 |
| Viet Nam | 10 | 11 | 12.72 | 0.66 | 0.1 | 0.1 | 11.58 | 0.00 |
| OCEANIA | 365 | 390 | 3.69 | 0.67 | 8.9 | 8.3 | 2.20 | -0.49 |
| Australia | 315 | 335 | 3.48 | 0.62 | 12.5 | 11.9 | 2.08 | -0.36 |
| New Zealand | 48 | 53 | 4.99 | 0.90 | 10.1 | 10.2 | 3.97 | 0.21 |
| DEVELOPED COUNTRIES | 18 881 | 21 245 | 2.00 | 1.03 | 13.2 | 14.5 | 1.57 | 0.83 |
| DEVELOPING COUNTRIES | 5 163 | 6 368 | 1.04 | 1.95 | 0.8 | 0.9 | -0.27 | 0.87 |
| LEAST DEVELOPED COUNTRIES (LDC) | 401 | 495 | 0.88 | 2.14 | 0.5 | 0.4 | -1.44 | -0.04 |
| OECD³ | 18 501 | 20 703 | 2.16 | 1.00 | 13.3 | 14.4 | 1.59 | 0.72 |
| BRICS | 2 029 | 2 572 | 0.81 | 1.98 | 0.6 | 0.8 | 0.04 | 1.49 |

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.33.1. Skim milk powder projections: Production and trade

Calendar year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|--------------|-------------------------|-------------|--------------------|--------------|-------------------------|-------------|--------------------|--------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 4 434 | 5 228 | 2.63 | 1.37 | 2 632 | 3 059 | 4.31 | 1.77 | 2 669 | 3 059 | 4.58 | 1.77 |
| NORTH AMERICA | 1 192 | 1 555 | 2.21 | 2.60 | 4 | 4 | -1.26 | 0.00 | 795 | 1 102 | 7.31 | 3.75 |
| Canada | 100 | 108 | 3.05 | 0.97 | 2 | 1 | -9.20 | 0.00 | 53 | 35 | 26.18 | -0.61 |
| United States | 1 092 | 1 447 | 2.14 | 2.73 | 3 | 2 | 12.35 | 0.00 | 742 | 1 067 | 6.53 | 3.93 |
| LATIN AMERICA | 286 | 334 | 0.74 | 1.19 | 523 | 552 | 6.64 | 1.01 | 83 | 47 | 1.68 | 1.14 |
| Argentina | 41 | 42 | 2.10 | 0.96 | 0 | 0 | .. | .. | 21 | 24 | 1.77 | 1.95 |
| Brazil | 154 | 194 | 1.27 | 1.60 | 27 | 25 | -1.28 | 0.00 | 0 | 0 | .. | .. |
| Chile | 3 | 3 | -15.50 | 0.72 | 13 | 17 | 8.45 | 4.52 | 1 | 0 | -11.01 | .. |
| Colombia | 0 | 0 | .. | .. | 25 | 40 | 36.25 | 2.48 | 0 | 0 | .. | .. |
| Mexico | 44 | 44 | 1.36 | -0.13 | 336 | 383 | 6.16 | 0.97 | 41 | 3 | 8.47 | 0.00 |
| Paraguay | 0 | 0 | .. | .. | 1 | 1 | 10.30 | 0.06 | 1 | 1 | .. | -0.06 |
| Peru | 0 | 0 | .. | .. | 24 | 27 | 3.55 | 2.46 | 0 | 0 | .. | .. |
| EUROPE | 1 889 | 2 205 | 4.24 | 0.99 | 168 | 168 | 3.39 | -0.06 | 1 107 | 1 318 | 6.66 | 1.58 |
| European Union ¹ | 1 482 | 1 779 | 4.86 | 1.12 | 48 | 50 | 11.11 | 0.55 | 868 | 1 060 | 7.07 | 1.80 |
| United Kingdom | 57 | 65 | -1.95 | 0.95 | 29 | 30 | -4.66 | 0.34 | 79 | 82 | 5.17 | 0.39 |
| Russia | 82 | 75 | 3.07 | -0.99 | 81 | 77 | 5.43 | -0.55 | 1 | 1 | 19.89 | 0.00 |
| Ukraine | 110 | 100 | 0.63 | -0.39 | 2 | 4 | -6.17 | 2.28 | 19 | 6 | -1.30 | -9.45 |
| AFRICA | 9 | 9 | 0.53 | 0.49 | 394 | 577 | 3.26 | 3.32 | 12 | 9 | -0.31 | -1.67 |
| Egypt | 0 | 0 | .. | .. | 76 | 107 | -0.08 | 3.74 | 0 | 0 | -47.50 | .. |
| Ethiopia | 0 | 0 | .. | .. | 1 | 1 | 12.03 | 2.26 | 0 | 0 | .. | .. |
| Nigeria | 0 | 0 | .. | .. | 40 | 79 | 4.18 | 5.33 | 0 | 0 | .. | .. |
| South Africa | 5 | 5 | 1.00 | -0.71 | 15 | 25 | 13.32 | 0.88 | 7 | 6 | 5.81 | -0.87 |
| ASIA | 469 | 585 | 3.98 | 2.09 | 1 526 | 1 737 | 4.01 | 1.75 | 113 | 64 | -2.68 | -1.29 |
| China ² | 20 | 20 | 0.00 | 0.02 | 321 | 367 | 9.09 | 1.64 | 1 | 1 | 22.03 | 0.00 |
| India | 294 | 420 | 7.17 | 3.07 | 1 | 1 | -26.20 | -0.63 | 18 | 3 | -12.34 | -1.90 |
| Indonesia | 0 | 0 | .. | .. | 181 | 249 | 3.89 | 2.50 | 1 | 1 | -1.24 | -2.44 |
| Iran | 0 | 0 | .. | .. | 9 | 4 | -6.93 | 0.00 | 9 | 4 | 6.98 | 0.00 |
| Japan | 134 | 123 | -0.01 | -0.45 | 46 | 39 | 5.06 | -1.87 | 0 | 0 | .. | .. |
| Kazakhstan | 2 | 2 | 0.25 | -0.93 | 19 | 26 | -0.27 | 2.67 | 1 | 1 | .. | -2.60 |
| Korea | 10 | 11 | 1.64 | 1.45 | 25 | 26 | 0.54 | -0.02 | 0 | 0 | .. | .. |
| Malaysia | 0 | 0 | .. | .. | 126 | 138 | 2.68 | 1.01 | 4 | 2 | -18.03 | -1.00 |
| Pakistan | 0 | 0 | .. | .. | 35 | 37 | 3.68 | 4.25 | 0 | 0 | -14.43 | .. |
| Philippines | 0 | 0 | .. | .. | 158 | 163 | 5.72 | 1.68 | 0 | 0 | .. | .. |
| Saudi Arabia | 0 | 0 | .. | .. | 25 | 14 | -17.34 | 3.25 | 7 | 4 | -15.15 | -3.15 |
| Thailand | 0 | 0 | .. | .. | 67 | 70 | 0.65 | 0.75 | 9 | 5 | 32.76 | -0.74 |
| Turkey | 0 | 0 | .. | .. | 27 | 14 | 39.33 | 0.00 | 27 | 14 | 39.33 | 0.00 |
| Viet Nam | 0 | 0 | .. | .. | 104 | 127 | 3.81 | 1.19 | 2 | 3 | 32.34 | 0.00 |
| OCEANIA | 590 | 540 | -0.82 | -0.72 | 17 | 22 | 8.10 | 0.80 | 560 | 519 | 0.36 | -0.67 |
| Australia | 177 | 120 | -3.07 | -3.68 | 12 | 13 | 15.22 | 0.00 | 154 | 105 | 0.56 | -3.84 |
| New Zealand | 412 | 420 | 0.31 | 0.32 | 0 | 2 | -28.00 | 0.00 | 406 | 414 | 0.29 | 0.32 |
| DEVELOPED COUNTRIES | 3 820 | 4 439 | 2.52 | 1.25 | 294 | 313 | 4.50 | 0.18 | 2 475 | 2 949 | 5.09 | 1.86 |
| DEVELOPING COUNTRIES | 614 | 790 | 3.36 | 2.13 | 2 338 | 2 746 | 4.30 | 1.97 | 195 | 110 | -1.55 | -0.35 |
| LEAST DEVELOPED COUNTRIES (LDC) | 0 | 0 | .. | .. | 141 | 181 | 8.04 | 3.74 | 4 | 3 | -1.15 | -2.88 |
| OECD³ | 3 549 | 4 159 | 2.35 | 1.30 | 572 | 625 | 6.19 | 0.76 | 2 385 | 2 796 | 5.34 | 1.91 |
| BRICS | 556 | 714 | 4.29 | 2.04 | 444 | 495 | 6.32 | 1.13 | 28 | 11 | -5.96 | -0.93 |

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.33.2. Skim milk powder projections: Consumption, food

Calendar year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | | FOOD (kg/cap) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|--------------|-------------------------|-------------|--------------------|------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 4 545 | 5 228 | 2.65 | 1.38 | 0.6 | 0.6 | 1.50 | 0.51 |
| NORTH AMERICA | 408 | 457 | -3.91 | 0.26 | 1.0 | 1.1 | -4.71 | -0.55 |
| Canada | 56 | 74 | -4.28 | 2.00 | 0.6 | 0.7 | -6.90 | 0.18 |
| United States | 352 | 382 | -3.86 | -0.05 | 1.1 | 1.1 | -4.50 | -0.59 |
| LATIN AMERICA | 726 | 839 | 4.21 | 1.08 | 1.0 | 1.1 | 3.41 | 0.28 |
| Argentina | 19 | 18 | 3.05 | -0.26 | 0.4 | 0.4 | 2.02 | -1.06 |
| Brazil | 180 | 219 | 0.82 | 1.41 | 0.6 | 0.7 | -0.38 | 0.86 |
| Chile | 15 | 20 | -0.69 | 4.04 | 0.8 | 1.0 | -1.87 | 3.91 |
| Colombia | 25 | 40 | 36.71 | 2.49 | 0.5 | 0.7 | 35.01 | 2.03 |
| Mexico | 339 | 424 | 4.00 | 0.86 | 2.7 | 3.0 | 2.76 | -0.02 |
| Paraguay | 0 | 0 | .. | .. | 0.0 | 0.0 | -4.99 | -0.61 |
| Peru | 24 | 27 | 3.55 | 2.46 | 0.7 | 0.7 | 2.14 | 1.59 |
| EUROPE | 1 088 | 1 054 | 2.31 | 0.13 | 1.3 | 1.3 | 1.99 | 0.39 |
| European Union ¹ | 781 | 769 | 3.30 | 0.22 | 1.5 | 1.5 | 3.10 | 0.56 |
| United Kingdom | 17 | 13 | -16.66 | 3.84 | 0.3 | 0.2 | -17.20 | 3.47 |
| Russia | 172 | 151 | 3.99 | -0.77 | 1.2 | 1.1 | 3.81 | -0.57 |
| Ukraine | 92 | 98 | 1.11 | 0.64 | 2.1 | 2.4 | 1.58 | 1.33 |
| AFRICA | 391 | 578 | 3.32 | 3.37 | 0.3 | 0.3 | 0.71 | 1.02 |
| Egypt | 76 | 107 | 0.17 | 3.74 | 0.8 | 0.9 | -1.94 | 2.06 |
| Ethiopia | 1 | 1 | 12.94 | 2.32 | 0.0 | 0.0 | 9.92 | 0.00 |
| Nigeria | 40 | 79 | 4.14 | 5.37 | 0.2 | 0.3 | 1.44 | 2.84 |
| South Africa | 14 | 24 | 37.68 | 0.99 | 0.2 | 0.4 | 35.68 | -0.06 |
| ASIA | 1 874 | 2 258 | 4.45 | 1.94 | 0.4 | 0.5 | 3.44 | 1.27 |
| China ² | 339 | 385 | 8.27 | 1.55 | 0.2 | 0.3 | 7.73 | 1.40 |
| India | 277 | 418 | 10.18 | 3.10 | 0.2 | 0.3 | 8.98 | 2.23 |
| Indonesia | 180 | 248 | 3.94 | 2.52 | 0.7 | 0.8 | 2.68 | 1.62 |
| Iran | 0 | 0 | -74.33 | .. | 0.0 | 0.0 | -74.67 | -0.09 |
| Japan | 171 | 162 | -0.22 | -0.82 | 1.1 | 1.1 | -0.98 | -0.50 |
| Kazakhstan | 21 | 28 | -0.34 | 2.47 | 1.1 | 1.3 | -1.78 | 1.54 |
| Korea | 36 | 37 | 1.59 | 0.40 | 0.7 | 0.7 | 1.26 | 0.43 |
| Malaysia | 122 | 136 | 4.80 | 1.04 | 3.8 | 3.8 | 3.39 | -0.03 |
| Pakistan | 35 | 37 | 4.04 | 4.30 | 0.2 | 0.1 | 1.90 | 2.52 |
| Philippines | 158 | 163 | 5.72 | 1.68 | 1.5 | 1.3 | 4.13 | 0.47 |
| Saudi Arabia | 17 | 10 | -22.79 | 7.92 | 0.5 | 0.3 | -24.55 | 6.65 |
| Thailand | 58 | 65 | -1.15 | 0.88 | 0.8 | 0.9 | -1.51 | 0.82 |
| Turkey | 0 | 0 | .. | .. | 0.0 | 0.0 | -1.56 | -0.05 |
| Viet Nam | 102 | 124 | 3.72 | 1.22 | 1.1 | 1.2 | 2.67 | 0.55 |
| OCEANIA | 57 | 43 | -5.09 | -0.61 | 1.4 | 0.9 | -6.45 | -1.75 |
| Australia | 45 | 28 | -6.47 | -1.48 | 1.8 | 1.0 | -7.74 | -2.44 |
| New Zealand | 7 | 8 | -4.68 | 0.24 | 1.5 | 1.6 | -5.60 | -0.45 |
| DEVELOPED COUNTRIES | 1 787 | 1 803 | 0.16 | 0.14 | 1.1 | 1.1 | -0.54 | -0.03 |
| DEVELOPING COUNTRIES | 2 758 | 3 426 | 4.53 | 2.09 | 0.4 | 0.5 | 3.25 | 1.02 |
| LEAST DEVELOPED COUNTRIES (LDC) | 137 | 179 | 8.42 | 3.87 | 0.2 | 0.2 | 5.94 | 1.65 |
| OECD³ | 1 874 | 1 988 | 0.52 | 0.35 | 1.2 | 1.3 | -0.26 | 0.12 |
| BRICS | 982 | 1 198 | 5.94 | 1.69 | 0.3 | 0.3 | 5.42 | 1.21 |

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.34.1. Whole milk powder projections: Production and trade

Calendar year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|--------------|-------------------------|-------------|--------------------|--------------|-------------------------|--------------|--------------------|--------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 5 059 | 5 945 | 0.82 | 1.25 | 2 699 | 2 903 | 1.75 | 0.78 | 2 645 | 2 903 | 1.63 | 0.78 |
| NORTH AMERICA | 68 | 77 | 9.60 | 1.25 | 10 | 10 | -2.98 | 0.00 | 23 | 40 | 11.67 | 7.21 |
| Canada | 8 | 7 | -3.37 | -1.77 | 3 | 3 | -4.85 | 0.00 | 1 | 1 | 4.75 | 1.16 |
| United States | 60 | 70 | 13.70 | 1.61 | 7 | 7 | -1.57 | 0.00 | 22 | 39 | 11.95 | 7.38 |
| LATIN AMERICA | 1 332 | 1 746 | 0.23 | 2.24 | 271 | 249 | -4.39 | -1.20 | 291 | 375 | -1.68 | 2.33 |
| Argentina | 187 | 204 | -6.08 | 1.04 | 0 | 0 | -59.53 | .. | 115 | 145 | -7.93 | 2.45 |
| Brazil | 592 | 872 | 1.38 | 2.87 | 63 | 55 | 2.72 | -1.04 | 0 | 11 | -11.44 | 6.97 |
| Chile | 81 | 89 | -2.08 | 1.15 | 7 | 6 | 5.40 | -7.13 | 3 | 5 | -20.41 | 7.68 |
| Colombia | 35 | 45 | -2.27 | 2.90 | 18 | 30 | 15.04 | 1.01 | 1 | 0 | -15.56 | .. |
| Mexico | 224 | 261 | 1.19 | 1.23 | 44 | 42 | 9.93 | -0.79 | 6 | 6 | -7.57 | 0.00 |
| Paraguay | 0 | 0 | .. | .. | 6 | 9 | 19.43 | 0.00 | 6 | 9 | 59.80 | 0.00 |
| Peru | 0 | 0 | .. | .. | 22 | 22 | 6.80 | 0.48 | 0 | 0 | .. | .. |
| EUROPE | 900 | 1 037 | 1.23 | 1.23 | 82 | 75 | 0.55 | -0.64 | 416 | 495 | -1.15 | 1.76 |
| European Union ¹ | 715 | 821 | 1.55 | 1.19 | 21 | 15 | -6.10 | -2.35 | 336 | 402 | -1.57 | 1.58 |
| United Kingdom | 38 | 52 | -1.95 | 2.41 | 22 | 18 | -2.92 | -1.38 | 46 | 49 | 3.11 | 1.84 |
| Russia | 61 | 62 | 0.40 | 0.43 | 36 | 40 | 14.66 | 0.57 | 1 | 1 | 20.03 | 0.00 |
| Ukraine | 10 | 9 | 0.91 | -0.86 | 0 | 0 | .. | .. | 6 | 4 | 21.06 | -1.64 |
| AFRICA | 54 | 68 | 10.67 | 2.45 | 561 | 723 | 0.54 | 2.44 | 25 | 22 | 4.94 | -1.11 |
| Egypt | 0 | 0 | .. | .. | 25 | 22 | -9.98 | 1.39 | 11 | 9 | 33.41 | -1.37 |
| Ethiopia | 0 | 0 | .. | .. | 2 | 3 | 18.77 | 2.32 | 0 | 0 | .. | .. |
| Nigeria | 0 | 0 | .. | .. | 49 | 77 | -5.06 | 3.53 | 0 | 0 | .. | .. |
| South Africa | 12 | 12 | 2.41 | 0.36 | 3 | 3 | 6.58 | -0.16 | 6 | 6 | 7.16 | 0.16 |
| ASIA | 1 202 | 1 405 | -0.80 | 1.18 | 1 736 | 1 816 | 3.51 | 0.58 | 409 | 382 | 4.70 | -0.17 |
| China ² | 1 072 | 1 204 | -1.10 | 0.75 | 617 | 648 | 5.13 | 0.32 | 1 | 1 | -21.89 | 0.07 |
| India | 7 | 9 | 82.56 | 3.20 | 0 | 0 | -25.14 | .. | 3 | 5 | 20.28 | 5.88 |
| Indonesia | 83 | 135 | 2.73 | 4.62 | 53 | 27 | -2.01 | -5.91 | 1 | 1 | -29.17 | 1.04 |
| Iran | 1 | 1 | -4.42 | 0.65 | 2 | 2 | -0.36 | 0.63 | 1 | 1 | -0.16 | 0.00 |
| Japan | 10 | 13 | -3.28 | 1.43 | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| Kazakhstan | 16 | 18 | 1.71 | 0.61 | 2 | 2 | -11.94 | -0.61 | 0 | 0 | .. | .. |
| Korea | 2 | 2 | -0.31 | 0.62 | 5 | 6 | 9.43 | 0.65 | 0 | 0 | .. | .. |
| Malaysia | 0 | 0 | .. | .. | 57 | 49 | 10.41 | 0.10 | 43 | 38 | 18.49 | -0.10 |
| Pakistan | 0 | 0 | .. | .. | 1 | 1 | -12.97 | 0.87 | 1 | 1 | -25.86 | 0.00 |
| Philippines | 0 | 0 | .. | .. | 28 | 30 | -4.86 | 0.65 | 7 | 7 | -18.95 | -0.65 |
| Saudi Arabia | 0 | 0 | .. | .. | 128 | 176 | 4.22 | 2.26 | 13 | 6 | -10.10 | -2.21 |
| Thailand | 0 | 0 | .. | .. | 58 | 62 | 7.37 | 0.92 | 2 | 2 | -14.12 | -0.91 |
| Turkey | 0 | 0 | .. | .. | 1 | 1 | -6.04 | 0.00 | 1 | 1 | -6.04 | 0.00 |
| Viet Nam | 0 | 0 | .. | .. | 44 | 43 | 2.43 | 0.46 | 16 | 13 | 6.21 | 0.00 |
| OCEANIA | 1 503 | 1 610 | 2.05 | 0.30 | 39 | 30 | 12.93 | -1.51 | 1 480 | 1 590 | 2.34 | 0.30 |
| Australia | 58 | 57 | -12.75 | 1.17 | 32 | 22 | 18.16 | -2.15 | 40 | 43 | -12.59 | 1.69 |
| New Zealand | 1 445 | 1 553 | 3.16 | 0.27 | 2 | 3 | 19.59 | 0.00 | 1 439 | 1 547 | 3.16 | 0.27 |
| DEVELOPED COUNTRIES | 2 510 | 2 769 | 1.86 | 0.67 | 139 | 123 | 2.83 | -0.80 | 1 925 | 2 131 | 1.57 | 0.72 |
| DEVELOPING COUNTRIES | 2 549 | 3 176 | -0.13 | 1.78 | 2 560 | 2 780 | 1.70 | 0.85 | 720 | 772 | 1.74 | 0.93 |
| LEAST DEVELOPED COUNTRIES (LDC) | 34 | 43 | 31.21 | 2.37 | 228 | 295 | 0.73 | 3.31 | 6 | 5 | -7.24 | -2.10 |
| OECD³ | 2 692 | 2 986 | 1.62 | 0.74 | 168 | 160 | 4.09 | -1.07 | 1 897 | 2 094 | 1.44 | 0.68 |
| BRICS | 1 744 | 2 160 | -0.19 | 1.54 | 720 | 745 | 5.02 | 0.22 | 12 | 24 | -5.44 | 3.95 |

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.34.2. Whole milk powder projections: Consumption, food

Calendar year

| | CONSUMPTION (kt) | | Growth (%) ⁴ | | FOOD (kg/cap) | | Growth (%) ⁴ | |
|--|--------------------|--------------|-------------------------|-------------|--------------------|------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 5 102 | 5 945 | 0.85 | 1.25 | 0.7 | 0.7 | -0.28 | 0.33 |
| NORTH AMERICA | 49 | 48 | 3.23 | -1.19 | 0.1 | 0.1 | 2.50 | -1.75 |
| Canada | 6 | 9 | -12.61 | 6.07 | 0.1 | 0.2 | -13.47 | 5.25 |
| United States | 43 | 39 | 8.17 | -2.36 | 0.1 | 0.1 | 7.45 | -2.89 |
| LATIN AMERICA | 1 312 | 1 620 | -0.50 | 1.61 | 2.0 | 2.3 | -1.49 | 0.84 |
| Argentina | 72 | 59 | -2.93 | -1.82 | 1.6 | 1.2 | -3.90 | -2.62 |
| Brazil | 655 | 916 | 1.63 | 2.55 | 3.1 | 4.1 | 0.80 | 2.04 |
| Chile | 85 | 91 | 0.49 | 0.13 | 4.5 | 4.7 | -0.70 | 0.01 |
| Colombia | 52 | 75 | 1.87 | 2.11 | 1.0 | 1.4 | 0.61 | 1.65 |
| Mexico | 262 | 298 | 2.44 | 0.94 | 2.1 | 2.1 | 1.21 | 0.07 |
| Paraguay | 0 | 0 | .. | .. | 0.0 | 0.0 | -54.48 | -0.10 |
| Peru | 22 | 22 | 6.93 | 0.48 | 0.7 | 0.6 | 5.48 | -0.37 |
| EUROPE | 558 | 618 | 2.96 | 0.51 | 0.7 | 0.8 | 2.80 | 0.60 |
| European Union ¹ | 391 | 434 | 4.08 | 0.60 | 0.9 | 1.0 | 3.95 | 0.68 |
| United Kingdom | 14 | 21 | -11.86 | 0.01 | 0.2 | 0.3 | -12.44 | -0.35 |
| Russia | 96 | 101 | 3.37 | 0.48 | 0.7 | 0.7 | 3.18 | 0.69 |
| Ukraine | 5 | 5 | -10.53 | -0.02 | 0.1 | 0.1 | -10.11 | 0.66 |
| AFRICA | 590 | 769 | 0.99 | 2.57 | 0.5 | 0.5 | -1.56 | 0.24 |
| Egypt | 14 | 13 | -17.31 | 3.81 | 0.1 | 0.1 | -19.06 | 2.13 |
| Ethiopia | 2 | 3 | 20.56 | 2.32 | 0.0 | 0.0 | 17.34 | 0.00 |
| Nigeria | 49 | 77 | -4.91 | 3.54 | 0.2 | 0.3 | -7.37 | 1.06 |
| South Africa | 9 | 9 | 2.45 | 0.33 | 0.2 | 0.1 | 0.96 | -0.71 |
| ASIA | 2 528 | 2 839 | 1.12 | 0.97 | 0.6 | 0.6 | 0.14 | 0.29 |
| China ² | 1 688 | 1 851 | 0.78 | 0.59 | 1.2 | 1.3 | 0.28 | 0.43 |
| India | 4 | 4 | 21.29 | 0.85 | 0.0 | 0.0 | 19.97 | 0.00 |
| Indonesia | 136 | 160 | 1.55 | 1.89 | 0.5 | 0.5 | 0.32 | 1.00 |
| Iran | 2 | 2 | -3.03 | 0.96 | 0.0 | 0.0 | -4.31 | 0.00 |
| Japan | 10 | 13 | -2.79 | 1.38 | 0.1 | 0.1 | -2.62 | 1.86 |
| Kazakhstan | 18 | 19 | -0.76 | 0.50 | 1.0 | 0.9 | -2.19 | -0.42 |
| Korea | 7 | 7 | 6.04 | 0.66 | 0.1 | 0.1 | 5.70 | 0.69 |
| Malaysia | 14 | 11 | -1.56 | 0.81 | 0.4 | 0.3 | -2.88 | -0.26 |
| Pakistan | 1 | 1 | 39.93 | 1.74 | 0.0 | 0.0 | 37.06 | 0.00 |
| Philippines | 21 | 23 | 8.15 | 1.06 | 0.2 | 0.2 | 6.52 | -0.14 |
| Saudi Arabia | 114 | 170 | 6.83 | 2.48 | 3.3 | 4.3 | 4.39 | 1.28 |
| Thailand | 57 | 60 | 9.28 | 0.97 | 0.8 | 0.9 | 8.88 | 0.91 |
| Turkey | 0 | 0 | .. | .. | 0.0 | 0.0 | -1.56 | -0.05 |
| Viet Nam | 28 | 30 | 0.97 | 0.66 | 0.3 | 0.3 | -0.06 | 0.00 |
| OCEANIA | 66 | 50 | -0.78 | -1.14 | 1.6 | 1.1 | -2.21 | -2.27 |
| Australia | 54 | 36 | -1.66 | -1.75 | 2.1 | 1.3 | -2.99 | -2.71 |
| New Zealand | 7 | 9 | 5.02 | 0.45 | 1.6 | 1.7 | 4.00 | -0.24 |
| DEVELOPED COUNTRIES | 713 | 761 | 2.60 | 0.29 | 0.5 | 0.5 | 2.16 | 0.09 |
| DEVELOPING COUNTRIES | 4 389 | 5 184 | 0.59 | 1.39 | 0.7 | 0.7 | -0.71 | 0.32 |
| LEAST DEVELOPED COUNTRIES (LDC) | 256 | 333 | 2.43 | 3.28 | 0.3 | 0.3 | 0.08 | 1.08 |
| OECD³ | 952 | 1 052 | 2.22 | 0.55 | 0.7 | 0.7 | 1.65 | 0.28 |
| BRICS | 2 452 | 2 882 | 1.10 | 1.17 | 0.8 | 0.8 | 0.33 | 0.68 |

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.35. Whey powder projections: Production and trade

Calendar year

| | PRODUCTION (kt) | | Growth (%) ¹ | | IMPORTS (kt) | | Growth (%) | | EXPORTS (kt) | | Growth (%) | |
|---------------------------------|--------------------|--------------|-------------------------|-------------|--------------------|----------------|-------------|-------------|--------------------|----------------|--------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 3 280 | 3 780 | 2.09 | 1.09 | 1 620.4 | 2 059.8 | 4.39 | 2.20 | 1 939.2 | 2 378.6 | 3.34 | 1.87 |
| NORTH AMERICA | 484 | 512 | -0.80 | 0.68 | 6.2 | 6.1 | 6.01 | -0.45 | 226.7 | 248.0 | -0.10 | 1.02 |
| Canada | 40 | 44 | 5.85 | 1.36 | 6.2 | 6.1 | 6.01 | -0.45 | 42.3 | 43.0 | 7.70 | 0.00 |
| United States | 443 | 468 | -1.25 | 0.62 | 0.0 | 0.0 | .. | .. | 184.5 | 205.0 | -1.35 | 1.25 |
| LATIN AMERICA | 163 | 196 | 1.07 | 1.60 | 129.4 | 143.8 | 0.26 | 0.81 | 177.9 | 206.0 | -0.20 | 1.24 |
| Argentina | 73 | 86 | 1.11 | 1.66 | 0.6 | 0.5 | -31.98 | 0.00 | 49.7 | 58.9 | -4.16 | 1.67 |
| Brazil | 0 | 0 | .. | .. | 14.4 | 14.5 | -5.11 | -0.01 | 0.4 | 0.5 | .. | 0.00 |
| Chile | 7 | 9 | 83.59 | 2.32 | 8.1 | 16.6 | 5.60 | 6.57 | 15.1 | 25.5 | 7.04 | 4.91 |
| Colombia | 0 | 0 | .. | .. | 12.5 | 16.0 | 9.22 | 2.29 | 0.0 | 0.0 | -47.81 | .. |
| Mexico | 56 | 67 | 0.37 | 1.21 | 64.2 | 66.0 | 1.46 | 0.00 | 64.2 | 66.0 | 1.46 | 0.00 |
| Paraguay | 0 | 0 | .. | .. | 1.2 | 1.5 | 42.65 | 2.48 | 0.0 | 0.0 | .. | .. |
| Peru | 0 | 0 | .. | .. | 10.0 | 13.8 | 4.54 | 2.88 | 10.0 | 13.8 | 4.54 | 2.88 |
| EUROPE | 2 352 | 2 765 | 2.79 | 1.16 | 173.5 | 150.3 | 1.92 | -0.69 | 930.3 | 1 070.5 | 3.79 | 1.10 |
| European Union ² | 2 071 | 2 443 | 2.28 | 1.18 | 60.9 | 51.2 | 0.53 | 0.09 | 652.8 | 767.9 | 3.78 | 1.23 |
| United Kingdom | 76 | 78 | 2.84 | -0.17 | 48.8 | 39.1 | 9.31 | -1.98 | 51.4 | 46.0 | -1.05 | -1.02 |
| Russia | 1 | 1 | 0.81 | 0.00 | 45.3 | 48.2 | -0.32 | 0.70 | 45.3 | 43.9 | -0.32 | 0.00 |
| Ukraine | 42 | 43 | 8.82 | 0.02 | 2.0 | 2.8 | 3.30 | 3.13 | 31.6 | 33.4 | 4.91 | 0.27 |
| AFRICA | 2 | 2 | -8.37 | 1.09 | 56.1 | 87.6 | 4.96 | 4.41 | 30.4 | 54.9 | 6.39 | 5.80 |
| Egypt | 0 | 0 | .. | .. | 9.8 | 0.0 | -4.77 | -60.24 | 9.8 | 0.0 | -4.77 | -62.67 |
| Ethiopia | 0 | 0 | .. | .. | 0.4 | 0.6 | .. | 3.75 | 0.0 | 0.0 | .. | .. |
| Nigeria | 0 | 0 | .. | .. | 4.1 | 11.0 | 6.54 | 9.47 | 4.1 | 11.0 | 278.79 | 9.47 |
| South Africa | 2 | 2 | -8.38 | 1.08 | 11.1 | 13.7 | 3.60 | 2.37 | 0.3 | 0.0 | -16.55 | .. |
| ASIA | 129 | 147 | 2.41 | 1.30 | 1 214.4 | 1 631.5 | 5.12 | 2.59 | 520.0 | 756.2 | 5.90 | 3.56 |
| China ³ | 75 | 75 | -0.88 | 0.00 | 583.0 | 774.8 | 6.60 | 2.24 | 0.7 | 0.8 | 11.56 | 0.00 |
| India | 1 | 1 | 5.99 | 3.86 | 8.7 | 13.0 | 6.35 | 3.89 | 0.8 | 2.2 | .. | 9.30 |
| Indonesia | 0 | 0 | .. | .. | 128.8 | 187.2 | 4.64 | 3.43 | 128.8 | 187.2 | 4.64 | 3.43 |
| Iran | 9 | 9 | 3.66 | 0.07 | 3.5 | 4.9 | 1.28 | 3.07 | 9.0 | 10.5 | 7.72 | 1.13 |
| Japan | 0 | 0 | .. | .. | 54.3 | 54.5 | 1.08 | 0.00 | 0.0 | 0.0 | .. | .. |
| Kazakhstan | 0 | 0 | .. | .. | 8.0 | 22.1 | 14.69 | 9.47 | 8.0 | 22.1 | 371.09 | 9.47 |
| Korea | 0 | 0 | .. | .. | 35.9 | 34.6 | 0.39 | 0.00 | 0.3 | 0.3 | .. | .. |
| Malaysia | 0 | 0 | .. | .. | 85.1 | 107.7 | 4.82 | 2.36 | 85.1 | 107.7 | 4.82 | 2.36 |
| Pakistan | 0 | 0 | .. | .. | 26.8 | 73.6 | 3.27 | 9.47 | 26.8 | 73.6 | 95.91 | 9.47 |
| Philippines | 0 | 0 | .. | .. | 66.6 | 125.9 | -5.76 | 6.27 | 66.6 | 125.9 | -15.05 | 6.27 |
| Saudi Arabia | 0 | 0 | .. | .. | 6.1 | 16.8 | 10.41 | 9.47 | 6.1 | 16.8 | 275.27 | 9.47 |
| Thailand | 0 | 0 | .. | .. | 59.9 | 63.3 | 1.09 | 0.39 | 59.9 | 63.3 | 1.09 | 0.39 |
| Turkey | 44 | 62 | 11.41 | 3.28 | 0.1 | 0.0 | .. | .. | 44.5 | 62.0 | 11.47 | 3.28 |
| Viet Nam | 0 | 0 | .. | .. | 52.1 | 53.6 | 2.73 | 0.00 | 0.0 | 0.0 | -30.81 | .. |
| OCEANIA | 150 | 156 | 3.04 | 0.38 | 40.8 | 40.6 | 12.69 | 0.78 | 53.8 | 43.0 | 2.93 | -1.03 |
| Australia | 120 | 125 | 2.76 | 0.38 | 15.6 | 22.1 | 4.36 | 1.47 | 39.4 | 29.7 | 2.34 | -1.63 |
| New Zealand | 30 | 31 | 4.20 | 0.36 | 24.9 | 18.2 | 25.20 | 0.02 | 14.4 | 13.2 | 5.36 | 0.48 |
| DEVELOPED COUNTRIES | 2 988 | 3 436 | 2.14 | 1.05 | 301.6 | 296.9 | 3.29 | 0.36 | 1 221.7 | 1 386.4 | 3.01 | 1.10 |
| DEVELOPING COUNTRIES | 292 | 344 | 1.64 | 1.47 | 1 318.8 | 1 763.0 | 4.66 | 2.54 | 717.4 | 992.2 | 3.94 | 3.05 |
| LEAST DEVELOPED COUNTRIES (LDC) | 0 | 0 | .. | .. | 24.2 | 37.6 | 9.16 | 4.31 | 14.9 | 25.8 | 130.95 | 5.22 |
| OECD⁴ | 2 915 | 3 354 | 1.91 | 1.06 | 341.4 | 333.4 | 3.24 | 0.18 | 1 126.3 | 1 276.5 | 2.70 | 1.08 |
| BRICS | 79 | 79 | -1.09 | 0.09 | 662.6 | 864.2 | 5.41 | 2.13 | 47.6 | 47.4 | -0.18 | 0.28 |

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Least-squares growth rate (see glossary).
2. Refers to all current European Union member States (excludes the United Kingdom)
3. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
4. Excludes Iceland and Costa Rica but includes all EU member countries.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.36. Fresh dairy products projections: Production and food consumption

Calendar year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | FOOD CONSUMPTION (kg/cap) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|---------------------------|-------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 428 841 | 531 924 | 1.90 | 2.18 | 55.8 | 62.4 | 0.79 | 1.24 |
| NORTH AMERICA | 25 484 | 24 175 | -1.51 | -0.39 | 69.2 | 61.6 | -2.23 | -0.95 |
| Canada | 2 851 | 2 784 | -0.65 | 0.00 | 75.6 | 67.5 | -1.91 | -0.78 |
| United States | 22 633 | 21 390 | -1.62 | -0.43 | 68.5 | 60.9 | -2.27 | -0.98 |
| LATIN AMERICA | 34 312 | 40 997 | -0.83 | 1.76 | 52.7 | 57.9 | -1.78 | 1.02 |
| Argentina | 1 570 | 1 680 | -1.50 | 0.40 | 28.3 | 27.7 | -1.59 | -0.36 |
| Brazil | 15 217 | 19 556 | 0.08 | 2.36 | 72.4 | 87.7 | -0.75 | 1.87 |
| Chile | 361 | 321 | -10.84 | -0.52 | 19.1 | 16.5 | -11.90 | -0.64 |
| Colombia | 4 868 | 6 421 | -1.45 | 3.09 | 96.8 | 120.2 | -2.67 | 2.63 |
| Mexico | 3 474 | 3 291 | -1.16 | -0.46 | 27.3 | 23.5 | -2.38 | -1.32 |
| Paraguay | 458 | 549 | -1.18 | 1.55 | 65.0 | 69.0 | -2.48 | 0.47 |
| Peru | 1 862 | 2 501 | 2.08 | 2.97 | 57.3 | 69.4 | 0.69 | 2.10 |
| EUROPE | 76 282 | 78 413 | -0.61 | 0.41 | 101.4 | 104.3 | -0.69 | 0.44 |
| European Union ¹ | 39 045 | 42 177 | 0.58 | 0.97 | 85.8 | 91.8 | 0.37 | 0.91 |
| United Kingdom | 7 439 | 7 210 | -0.56 | -0.24 | 111.9 | 105.9 | -0.23 | -0.45 |
| Russia | 15 233 | 15 624 | -2.25 | 0.10 | 106.6 | 111.2 | -2.27 | 0.30 |
| Ukraine | 6 577 | 5 938 | -3.22 | -0.39 | 149.5 | 145.2 | -2.77 | 0.29 |
| AFRICA | 33 467 | 43 849 | -0.69 | 2.89 | 25.8 | 26.2 | -3.20 | 0.56 |
| Egypt | 1 152 | 1 398 | -3.25 | 2.18 | 11.5 | 11.6 | -5.29 | 0.53 |
| Ethiopia | 2 453 | 3 936 | -4.41 | 5.26 | 21.9 | 27.2 | -6.97 | 2.87 |
| Nigeria | 227 | 237 | -0.76 | 0.69 | 1.1 | 0.9 | -3.33 | -1.72 |
| South Africa | 2 596 | 2 751 | 2.35 | 0.62 | 44.3 | 41.7 | 0.86 | -0.43 |
| ASIA | 255 822 | 340 585 | 4.10 | 2.83 | 56.1 | 69.1 | 3.14 | 2.13 |
| China ² | 26 483 | 29 463 | 0.73 | 0.48 | 19.1 | 20.9 | 0.64 | 0.35 |
| India | 132 020 | 183 970 | 6.10 | 3.35 | 96.6 | 122.3 | 4.95 | 2.48 |
| Indonesia | 994 | 1 141 | -0.69 | 1.64 | 3.7 | 3.8 | -1.89 | 0.75 |
| Iran | 3 490 | 4 340 | 1.77 | 2.09 | 42.1 | 46.8 | 0.43 | 1.13 |
| Japan | 4 347 | 4 260 | 0.14 | -0.21 | 34.3 | 35.3 | 0.32 | 0.27 |
| Kazakhstan | 5 004 | 5 990 | 1.47 | 1.73 | 269.8 | 290.2 | 0.00 | 0.80 |
| Korea | 1 355 | 1 335 | -0.08 | -0.48 | 26.7 | 26.3 | -0.33 | -0.45 |
| Malaysia | 52 | 55 | -6.65 | 0.58 | 1.6 | 1.5 | -7.91 | -0.49 |
| Pakistan | 37 078 | 53 464 | 3.21 | 3.72 | 171.2 | 203.3 | 1.09 | 1.95 |
| Philippines | 15 | 17 | -1.92 | 0.78 | 0.1 | 0.1 | -3.40 | -0.42 |
| Saudi Arabia | 1 334 | 1 504 | 5.97 | 1.13 | 39.0 | 38.2 | 3.56 | -0.06 |
| Thailand | 625 | 689 | -6.52 | 1.03 | 9.0 | 9.8 | -6.86 | 0.97 |
| Turkey | 15 289 | 18 600 | 3.75 | 1.99 | 183.4 | 208.6 | 2.13 | 1.47 |
| Viet Nam | 977 | 1 393 | 12.59 | 4.02 | 10.1 | 13.4 | 11.45 | 3.34 |
| OCEANIA | 3 474 | 3 905 | 1.95 | 0.63 | 67.5 | 65.9 | -1.37 | -0.64 |
| Australia | 2 923 | 3 333 | 1.81 | 0.68 | 102.1 | 102.0 | -0.67 | -0.45 |
| New Zealand | 541 | 563 | 3.51 | 0.34 | 42.5 | 40.6 | -5.89 | -0.48 |
| DEVELOPED COUNTRIES | 134 553 | 142 515 | -0.11 | 0.66 | 93.3 | 96.0 | -0.54 | 0.41 |
| DEVELOPING COUNTRIES | 294 288 | 389 409 | 2.94 | 2.79 | 47.2 | 55.5 | 1.66 | 1.70 |
| LEAST DEVELOPED COUNTRIES (LDC) | 20 858 | 26 744 | 0.05 | 2.77 | 24.0 | 24.2 | -2.24 | 0.58 |
| OECD³ | 107 077 | 113 599 | 0.13 | 0.71 | 76.0 | 77.5 | -0.46 | 0.39 |
| BRICS | 191 548 | 251 365 | 3.79 | 2.64 | 60.0 | 74.4 | 3.05 | 2.14 |

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.37. Milk projections: Production, inventories, yield

Calendar year

| | PRODUCTION (kt) | | Growth (%) ¹ | | INVENTORIES ('000 hd) | | Growth (%) | | YIELD (t/head) | | Growth (%) | |
|---------------------------------|--------------------|------------------|-------------------------|-------------|-----------------------|----------------|--------------|--------------|--------------------|-------------|--------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 851 046 | 1 019 691 | 1.91 | 1.75 | 714 635 | 800 198 | 1.12 | 1.08 | 1.19 | 1.27 | 0.79 | 0.66 |
| NORTH AMERICA | 110 189 | 125 096 | 1.57 | 1.07 | 10 417 | 10 647 | 0.38 | 0.09 | 10.58 | 11.75 | 1.18 | 0.98 |
| Canada | 10 565 | 12 015 | 2.81 | 1.17 | 1 050 | 1 182 | 1.32 | -0.09 | 10.14 | 10.17 | 1.47 | 1.26 |
| United States | 99 624 | 113 081 | 1.44 | 1.06 | 9 367 | 9 465 | 0.27 | 0.11 | 10.64 | 11.95 | 1.17 | 0.95 |
| LATIN AMERICA | 80 926 | 95 762 | 0.46 | 1.62 | 39 167 | 41 635 | -2.70 | 0.60 | 2.07 | 2.30 | 3.25 | 1.01 |
| Argentina | 10 545 | 11 877 | -1.01 | 1.01 | 1 718 | 1 697 | -0.20 | -0.10 | 6.14 | 7.00 | -0.81 | 1.11 |
| Brazil | 35 757 | 43 988 | 1.79 | 1.92 | 16 297 | 17 832 | -4.89 | 0.91 | 2.19 | 2.47 | 7.03 | 1.00 |
| Chile | 2 037 | 2 418 | -2.77 | 1.79 | 1 050 | 1 089 | 0.31 | 0.41 | 1.94 | 2.22 | -3.07 | 1.38 |
| Colombia | 5 774 | 7 391 | -1.59 | 2.80 | 5 644 | 6 414 | -0.69 | 1.24 | 1.02 | 1.15 | -0.90 | 1.54 |
| Mexico | 12 366 | 13 225 | 1.43 | 0.68 | 2 555 | 2 655 | 0.92 | 0.38 | 4.84 | 4.98 | 0.51 | 0.30 |
| Paraguay | 473 | 576 | -1.14 | 2.03 | 213 | 238 | -0.58 | 0.90 | 2.22 | 2.42 | -0.56 | 1.12 |
| Peru | 2 102 | 2 806 | 2.16 | 2.91 | 1 171 | 1 373 | 0.39 | 1.48 | 1.80 | 2.04 | 1.76 | 1.42 |
| EUROPE | 225 955 | 233 935 | 0.89 | 0.35 | 40 796 | 37 754 | -0.80 | -0.67 | 5.54 | 6.20 | 1.71 | 1.03 |
| European Union ² | 152 216 | 160 972 | 1.28 | 0.48 | 20 552 | 19 201 | -0.50 | -0.54 | 7.29 | 8.23 | 1.89 | 1.01 |
| United Kingdom | 15 129 | 14 366 | 0.93 | -0.05 | 1 878 | 1 770 | 0.57 | -0.62 | 8.06 | 8.12 | 0.36 | 0.58 |
| Russia | 31 262 | 30 892 | 0.21 | 0.02 | 7 870 | 7 424 | -1.32 | -0.50 | 3.97 | 4.16 | 1.55 | 0.52 |
| Ukraine | 9 816 | 8 926 | -2.01 | -0.37 | 2 665 | 2 135 | -4.01 | -2.05 | 3.68 | 4.18 | 2.08 | 1.71 |
| AFRICA | 43 525 | 55 969 | -0.72 | 2.69 | 232 533 | 262 447 | 1.38 | 1.24 | 0.19 | 0.21 | -2.07 | 1.43 |
| Egypt | 4 499 | 5 252 | -3.12 | 1.79 | 6 545 | 6 547 | -0.25 | 0.40 | 0.69 | 0.80 | -2.88 | 1.38 |
| Ethiopia | 2 758 | 4 304 | -4.31 | 4.98 | 12 986 | 17 611 | -1.08 | 3.12 | 0.21 | 0.24 | -3.27 | 1.80 |
| Nigeria | 535 | 647 | -0.90 | 2.22 | 2 327 | 2 476 | -0.08 | 0.64 | 0.23 | 0.26 | -0.82 | 1.57 |
| South Africa | 3 764 | 4 101 | 2.34 | 0.89 | 842 | 797 | -1.54 | -0.62 | 4.47 | 5.14 | 3.94 | 1.52 |
| ASIA | 359 546 | 477 617 | 3.59 | 2.74 | 385 355 | 441 581 | 1.70 | 1.25 | 0.93 | 1.08 | 1.86 | 1.48 |
| China ³ | 36 469 | 40 467 | 0.26 | 0.51 | 13 500 | 13 439 | -1.32 | -0.39 | 2.40 | 2.71 | 1.91 | 0.97 |
| India | 191 476 | 266 674 | 5.30 | 3.20 | 145 473 | 175 483 | 2.47 | 1.78 | 1.32 | 1.52 | 2.76 | 1.40 |
| Indonesia | 1 514 | 1 980 | 0.38 | 2.80 | 14 600 | 17 220 | 2.74 | 1.49 | 0.10 | 0.12 | -2.30 | 1.29 |
| Iran | 7 618 | 8 003 | -0.69 | 0.65 | 20 380 | 17 803 | -0.45 | -1.06 | 0.37 | 0.45 | -0.24 | 1.73 |
| Japan | 7 360 | 7 293 | -0.25 | -0.10 | 842 | 810 | -1.24 | -0.33 | 8.74 | 9.00 | 1.00 | 0.23 |
| Kazakhstan | 5 711 | 6 985 | 1.81 | 1.94 | 3 030 | 3 175 | 1.69 | 0.30 | 1.88 | 2.20 | 0.12 | 1.64 |
| Korea | 2 047 | 2 001 | 0.09 | -0.35 | 258 | 254 | 0.24 | -0.12 | 7.95 | 7.89 | -0.14 | -0.22 |
| Malaysia | 52 | 55 | -6.65 | 0.58 | 105 | 95 | -5.77 | -1.22 | 0.49 | 0.58 | -0.94 | 1.83 |
| Pakistan | 47 214 | 67 118 | 3.20 | 3.60 | 38 560 | 47 634 | 2.99 | 2.11 | 1.22 | 1.41 | 0.20 | 1.46 |
| Philippines | 15 | 17 | -1.92 | 0.78 | 5 | 5 | -0.05 | -1.07 | 2.79 | 3.53 | -1.87 | 1.88 |
| Saudi Arabia | 2 505 | 3 076 | 2.78 | 2.19 | 4 838 | 5 127 | 0.67 | 0.56 | 0.52 | 0.60 | 2.10 | 1.62 |
| Thailand | 655 | 716 | -6.28 | 0.94 | 136 | 121 | -5.49 | -0.98 | 4.82 | 5.94 | -0.84 | 1.94 |
| Turkey | 21 861 | 27 253 | 3.80 | 2.19 | 31 404 | 35 210 | 5.42 | 0.87 | 0.70 | 0.77 | -1.54 | 1.31 |
| Viet Nam | 977 | 1 393 | 12.59 | 4.02 | 331 | 411 | 9.58 | 2.29 | 2.95 | 3.39 | 2.75 | 1.69 |
| OCEANIA | 30 905 | 31 311 | 0.95 | 0.06 | 6 367 | 6 135 | -0.36 | -0.27 | 4.86 | 5.10 | 1.32 | 0.33 |
| Australia | 9 246 | 9 056 | -0.70 | -0.02 | 1 422 | 1 392 | -2.08 | -0.27 | 6.51 | 6.51 | 1.41 | 0.26 |
| New Zealand | 21 636 | 22 234 | 1.77 | 0.09 | 4 913 | 4 717 | 0.25 | -0.26 | 4.41 | 4.71 | 1.51 | 0.35 |
| DEVELOPED COUNTRIES | 403 931 | 435 996 | 1.20 | 0.70 | 75 573 | 75 285 | -0.10 | -0.03 | 5.35 | 5.79 | 1.29 | 0.74 |
| DEVELOPING COUNTRIES | 447 115 | 583 695 | 2.60 | 2.60 | 639 062 | 724 913 | 1.27 | 1.21 | 0.70 | 0.81 | 1.31 | 1.37 |
| LEAST DEVELOPED COUNTRIES (LDC) | 27 158 | 34 326 | 0.29 | 2.56 | 218 082 | 241 317 | 0.98 | 1.01 | 0.12 | 0.14 | -0.68 | 1.54 |
| OECD⁴ | 366 940 | 398 795 | 1.32 | 0.75 | 82 130 | 85 333 | 1.64 | 0.30 | 4.47 | 4.67 | -0.31 | 0.45 |
| BRICS | 298 728 | 386 122 | 3.48 | 2.43 | 183 982 | 214 976 | 1.12 | 1.46 | 1.62 | 1.80 | 2.34 | 0.96 |

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2018-20est: Data for 2020 are estimated.

1. Least-squares growth rate (see glossary).
2. Refers to all current European Union member States (excludes the United Kingdom)
3. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
4. Excludes Iceland and Costa Rica but includes all EU member countries.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.38. Main policy assumptions for dairy markets

Calendar year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-------------------------------------|------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| CANADA | | | | | | | | | | | | |
| Milk target price ² | CADc/litre | 81.4 | 82.6 | 83.6 | 85.0 | 86.6 | 88.5 | 90.4 | 92.5 | 94.4 | 96.4 | 98.6 |
| Butter support price | CAD/t | 8 301.9 | 7 844.8 | 7 985.2 | 8 128.3 | 8 282.8 | 8 457.4 | 8 634.0 | 8 826.9 | 9 002.8 | 9 178.4 | 9 365.0 |
| Cheese tariff-quota | kt pw | 33.6 | 49.0 | 56.4 | 60.9 | 63.2 | 65.4 | 65.7 | 65.9 | 66.2 | 66.5 | 66.8 |
| In-quota tariff | % | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Out-of-quota tariff | % | 245.6 | 245.6 | 245.6 | 245.6 | 245.6 | 245.6 | 245.6 | 245.6 | 245.6 | 245.6 | 245.6 |
| EUROPEAN UNION³ | | | | | | | | | | | | |
| Voluntary coupled support | | | | | | | | | | | | |
| Milk and milk products ⁴ | mln EUR | 853 | 846 | 846 | 846 | 846 | 846 | 846 | 846 | 846 | 846 | 846 |
| Butter reference price ⁵ | EUR/t | 2 217.5 | 2 217.5 | 2 217.5 | 2 217.5 | 2 217.5 | 2 217.5 | 2 217.5 | 2 217.5 | 2 217.5 | 2 217.5 | 2 217.5 |
| SMP reference price | EUR/t | 1 400.0 | 1 400.0 | 1 400.0 | 1 400.0 | 1 400.0 | 1 400.0 | 1 400.0 | 1 400.0 | 1 400.0 | 1 400.0 | 1 400.0 |
| Butter tariff-quotas | kt pw | 90.1 | 90.3 | 90.4 | 90.4 | 90.5 | 90.5 | 90.6 | 90.6 | 90.7 | 90.7 | 90.8 |
| Cheese tariff-quotas | kt pw | 119.2 | 119.9 | 120.2 | 120.5 | 120.8 | 121.2 | 121.5 | 121.8 | 122.1 | 122.5 | 122.8 |
| JAPAN | | | | | | | | | | | | |
| Direct payments ⁶ | JPY/kg | 10.8 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| Cheese tariff ⁷ | % | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 |
| Tariff-quotas | | | | | | | | | | | | |
| Butter | kt pw | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| In-quota tariff | % | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| Out-of-quota tariff | % | 278.6 | 308.9 | 302.7 | 309.2 | 313.5 | 314.2 | 314.1 | 313.1 | 314.6 | 316.8 | 319.7 |
| SMP | kt pw | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 |
| In-quota tariff | % | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| Out-of-quota tariff | % | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 |
| WMP | kt pw | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| In-quota tariff | % | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 |
| Out-of-quota tariff | % | 316.2 | 316.2 | 316.2 | 316.2 | 316.2 | 316.2 | 316.2 | 316.2 | 316.2 | 316.2 | 316.2 |
| KOREA | | | | | | | | | | | | |
| Tariff-quotas | | | | | | | | | | | | |
| Butter | kt pw | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| In-quota tariff | % | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Out-of-quota tariff | % | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 |
| SMP | kt pw | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| In-quota tariff | % | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| Out-of-quota tariff | % | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 |
| WMP | kt pw | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| In-quota tariff | % | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Out-of-quota tariff | % | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 | 176.0 |
| MEXICO | | | | | | | | | | | | |
| Butter tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tariff-quotas | | | | | | | | | | | | |
| Cheese | kt pw | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 |
| In-quota tariff | % | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| Out-of-quota tariff | % | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 |
| SMP | kt pw | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 |
| In-quota tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Out-of-quota tariff | % | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 |
| Licons social program | min MXN | 1 313.9 | 1 240.8 | 1 240.8 | 1 240.8 | 1 240.8 | 1 240.8 | 1 240.8 | 1 240.8 | 1 240.8 | 1 240.8 | 1 240.8 |
| RUSSIA | | | | | | | | | | | | |
| Butter tariff | % | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| Cheese tariff | % | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| UNITED STATES⁸ | | | | | | | | | | | | |
| Butter tariff-quota | kt pw | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 |
| In-quota tariff | % | 2.8 | 3.1 | 3.0 | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 | 2.7 | 2.7 | 2.7 |
| Out-of-quota tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cheese tariff-quota | kt pw | 110.0 | 110.0 | 110.0 | 110.0 | 110.0 | 110.0 | 110.0 | 110.0 | 110.0 | 110.0 | 110.0 |
| In-quota tariff | % | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| Out-of-quota tariff | % | 39.1 | 38.5 | 37.8 | 37.1 | 36.3 | 35.8 | 35.2 | 34.6 | 34.1 | 33.6 | 33.1 |
| INDIA | | | | | | | | | | | | |
| Butter tariff | % | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| Cheese tariff | % | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Skim milk powder tariff | % | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 |
| Whole milk powder tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SOUTH AFRICA | | | | | | | | | | | | |
| Butter tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cheese tariff | % | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 |
| Skim milk powder tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Whole milk powder tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

ANNEX C

Note: Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. For manufacturing milk.
3. Since 2015 the Basic payment scheme (BPS) holds, which shall account for 68% maximum of the national direct payment envelopes. On top of this, compulsory policy instruments have been introduced: the Green Payment (30%) and young farmer scheme (2%).
4. Implemented in 19 Member States. The maximum quantity limit is 11.695 million dairy cow heads.
5. Buying-in when market prices go below the reference price for SMP and 90% of the reference price for butter is operable automatically for a maximum quantity of 109 000 tonnes for SMP and 50 000 tonnes for butter (before 2014, this ceiling was set at 30 000 tonnes). Above that ceiling intervention can take place only via tender. For 2018 due to a temporary measure the SMP buying in quantity at fixed prices of is set to 0. Buying in via a tendering procedure may still be possible.
6. In April 2017, in addition to skim milk powder, butter and cheese, milk used for fresh cream, concentrated skim milk and concentrated whole milk production became covered by the direct payments.
7. Excludes processed cheese.
8. A milk margin (all-milk price minus the average feed margin) protection program applies, which has been updated February 2018, and provides a dairy safety net to farmers. Farmers have to decide on enrolment and coverage levels.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.39.1. Fish and seafood projections: Production and trade

Calendar year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|--------------------|---------------|-------------------------|--------------|--------------------|---------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 177 801 | 200 529 | 2.06 | 1.20 | 42 592 | 44 388 | 0.98 | 0.69 | 42 139 | 44 357 | 0.96 | 0.72 |
| NORTH AMERICA | 6 213 | 6 713 | -0.69 | 0.60 | 6 264 | 6 652 | 1.79 | 0.88 | 2 619 | 2 451 | -1.69 | -0.27 |
| Canada | 966 | 1 145 | -1.12 | 1.67 | 652 | 618 | -0.01 | -0.32 | 797 | 854 | -0.19 | 0.68 |
| United States | 5 247 | 5 568 | -0.61 | 0.40 | 5 612 | 6 034 | 2.02 | 1.01 | 1 821 | 1 596 | -2.29 | -0.75 |
| LATIN AMERICA | 16 376 | 17 270 | -0.04 | 0.76 | 2 340 | 2 367 | 0.10 | 0.88 | 4 881 | 5 540 | 2.25 | 1.10 |
| Argentina | 830 | 896 | 0.49 | 0.86 | 66 | 65 | 0.91 | 0.00 | 594 | 672 | -0.30 | 1.03 |
| Brazil | 1 301 | 1 489 | 0.52 | 1.28 | 586 | 513 | -4.09 | -0.88 | 56 | 61 | 3.40 | 0.96 |
| Chile | 3 334 | 3 856 | -1.13 | 1.39 | 136 | 152 | 3.69 | 1.41 | 1 629 | 2 278 | 2.85 | 3.17 |
| Colombia | 248 | 320 | 5.78 | 1.02 | 243 | 296 | 2.08 | 3.10 | 51 | 51 | -5.10 | -2.00 |
| Mexico | 1 863 | 1 921 | 1.17 | 0.44 | 465 | 502 | 4.12 | 2.79 | 358 | 272 | 6.47 | -1.25 |
| Paraguay | 29 | 34 | 3.54 | 1.59 | 5 | 5 | 4.96 | 0.00 | 0 | 0 | .. | .. |
| Peru | 5 998 | 5 692 | -1.27 | 0.51 | 169 | 173 | 7.73 | 0.60 | 612 | 573 | -1.85 | -0.57 |
| EUROPE | 17 702 | 18 919 | 1.09 | 0.61 | 11 580 | 11 971 | 0.04 | 0.56 | 10 618 | 11 972 | 1.34 | 1.00 |
| European Union ¹ | 5 540 | 5 773 | 0.47 | 0.40 | 8 188 | 8 648 | 0.96 | 0.82 | 2 687 | 2 942 | 1.42 | 1.02 |
| United Kingdom | 853 | 929 | 0.35 | 0.51 | 1 162 | 1 124 | -1.62 | -0.22 | 864 | 922 | 0.15 | 0.67 |
| Norway | 3 808 | 3 961 | 1.35 | 0.35 | 250 | 181 | 0.25 | -2.97 | 2 846 | 2 925 | 0.07 | 0.16 |
| Russia | 5 259 | 5 981 | 2.44 | 1.27 | 836 | 955 | -5.56 | 1.39 | 2 513 | 3 333 | 3.71 | 2.44 |
| Ukraine | 99 | 101 | -9.34 | 0.00 | 512 | 466 | -1.05 | -1.32 | 23 | 21 | -16.68 | -2.47 |
| AFRICA | 12 516 | 14 354 | 3.66 | 1.18 | 4 601 | 5 961 | 0.15 | 3.12 | 3 114 | 2 729 | 5.18 | -0.89 |
| Egypt | 2 028 | 2 651 | 5.44 | 2.15 | 652 | 994 | 5.04 | 5.70 | 54 | 57 | 18.62 | -0.47 |
| Ethiopia | 59 | 71 | 10.04 | 1.69 | 2 | 4 | 4.48 | 7.32 | 1 | 1 | -16.77 | 0.00 |
| Nigeria | 1 128 | 1 233 | 2.90 | 1.12 | 632 | 990 | -11.42 | 3.40 | 5 | 5 | -23.51 | 0.00 |
| South Africa | 522 | 554 | -1.09 | -0.14 | 314 | 327 | 6.70 | 1.39 | 173 | 176 | 0.79 | -0.16 |
| ASIA | 123 217 | 141 452 | 2.51 | 1.37 | 17 162 | 16 816 | 1.82 | -0.01 | 20 011 | 20 817 | 0.33 | 0.80 |
| China ² | 61 783 | 71 801 | 2.04 | 1.56 | 4 642 | 4 542 | 3.72 | -0.42 | 7 823 | 8 039 | -0.09 | 1.40 |
| India | 12 755 | 14 904 | 5.46 | 1.59 | 71 | 118 | 14.64 | 2.92 | 1 291 | 746 | 3.83 | -6.62 |
| Indonesia | 13 124 | 15 201 | 5.28 | 1.47 | 155 | 235 | -4.36 | 5.48 | 1 319 | 972 | 0.27 | -2.66 |
| Iran | 1 280 | 1 405 | 6.61 | 0.57 | 50 | 50 | -1.99 | 0.84 | 131 | 120 | 10.22 | -0.59 |
| Japan | 3 782 | 3 437 | -1.95 | -0.83 | 3 423 | 2 909 | -1.35 | -1.22 | 644 | 742 | 0.31 | 0.52 |
| Kazakhstan | 50 | 59 | 4.65 | 0.89 | 61 | 55 | -3.78 | -0.26 | 33 | 20 | -1.98 | -4.03 |
| Korea | 1 942 | 1 921 | -1.68 | 0.02 | 1 835 | 1 928 | 2.26 | 0.37 | 607 | 670 | -1.84 | 0.68 |
| Malaysia | 1 681 | 1 819 | -0.34 | 0.80 | 650 | 691 | 2.68 | 0.51 | 366 | 312 | 2.39 | -1.77 |
| Pakistan | 651 | 695 | 0.94 | 0.93 | 9 | 8 | 11.70 | 0.00 | 241 | 225 | 4.73 | 1.24 |
| Philippines | 2 907 | 3 163 | -0.58 | 0.62 | 505 | 486 | 9.14 | 2.24 | 360 | 338 | 0.35 | -2.19 |
| Saudi Arabia | 147 | 191 | 8.89 | 1.44 | 293 | 302 | -0.27 | 1.01 | 49 | 30 | 3.52 | 0.00 |
| Thailand | 2 490 | 2 782 | -2.31 | 0.89 | 2 092 | 2 031 | 2.69 | -0.03 | 1 754 | 2 002 | -4.47 | 1.90 |
| Turkey | 765 | 825 | 2.34 | 0.60 | 112 | 121 | 4.50 | 1.25 | 269 | 301 | 12.05 | 3.49 |
| Viet Nam | 7 717 | 9 131 | 4.79 | 1.48 | 435 | 524 | 8.76 | 0.67 | 2 757 | 3 807 | 2.37 | 2.75 |
| OCEANIA | 1 775 | 1 820 | 3.17 | 0.62 | 644 | 621 | -0.74 | -0.41 | 896 | 848 | 0.47 | 0.86 |
| Australia | 265 | 304 | 1.20 | 1.74 | 458 | 460 | -0.47 | -0.02 | 67 | 48 | 3.57 | -1.70 |
| New Zealand | 521 | 542 | -0.53 | 0.19 | 58 | 58 | 0.36 | 0.00 | 403 | 408 | -0.96 | 0.03 |
| DEVELOPED COUNTRIES | 29 470 | 31 028 | 0.35 | 0.44 | 22 407 | 22 685 | 0.33 | 0.40 | 14 571 | 15 837 | 0.62 | 0.71 |
| DEVELOPING COUNTRIES | 148 331 | 169 501 | 2.43 | 1.34 | 20 185 | 21 703 | 1.76 | 1.01 | 27 568 | 28 520 | 1.15 | 0.72 |
| LEAST DEVELOPED COUNTRIES (LDC) | 13 922 | 16 319 | 3.63 | 1.46 | 1 301 | 1 421 | 5.47 | 1.69 | 1 983 | 1 866 | 7.57 | 0.12 |
| OECD³ | 29 156 | 30 525 | -0.25 | 0.41 | 22 921 | 23 386 | 0.82 | 0.49 | 13 046 | 14 011 | 0.43 | 0.78 |
| BRICS | 81 620 | 94 730 | 2.49 | 1.53 | 6 449 | 6 456 | 1.34 | -0.09 | 11 855 | 12 356 | 1.05 | 0.94 |

.. Not available

Note: Fish: The term "fish" indicates fish, crustaceans, molluscs and other aquatic animals, but excludes aquatic mammals, crocodiles, caimans, alligators and aquatic plants. Imports and exports refer to trade of food fish i.e. for human consumption. All data are in live weight equivalent. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Costa Rica.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.39.2. Fish and seafood projections: Reduction, food consumption

Calendar year

| | REDUCTION (kt) | | Growth (%) ⁴ | | FOOD CONS. (kt) | | Growth (%) ⁴ | | FOOD CONS. (kg/cap) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|---------------|-------------------------|-------------|--------------------|----------------|-------------------------|-------------|---------------------|-------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 16 795 | 16 615 | -0.08 | 0.33 | 157 267 | 180 504 | 2.28 | 1.34 | 20.5 | 21.2 | 1.13 | 0.43 |
| NORTH AMERICA | 752 | 899 | -3.77 | 0.93 | 8 591 | 9 505 | 1.80 | 1.04 | 23.4 | 24.3 | 1.09 | 0.46 |
| Canada | 25 | 27 | -4.69 | 1.10 | 787 | 871 | -0.39 | 1.13 | 21.0 | 21.3 | -1.36 | 0.35 |
| United States | 727 | 872 | -3.73 | 0.92 | 7 804 | 8 635 | 2.04 | 1.03 | 23.7 | 24.7 | 1.36 | 0.48 |
| LATIN AMERICA | 6 585 | 6 220 | -2.61 | 0.24 | 6 768 | 7 511 | 1.74 | 1.20 | 10.5 | 10.7 | 0.73 | 0.44 |
| Argentina | 0 | 0 | 0.00 | 0.00 | 301 | 288 | 2.35 | 0.27 | 6.7 | 5.9 | 1.33 | -0.54 |
| Brazil | 50 | 47 | -6.16 | 0.18 | 1 781 | 1 894 | -0.90 | 0.69 | 8.4 | 8.5 | -1.71 | 0.19 |
| Chile | 1 360 | 1 298 | -5.08 | -0.37 | 234 | 232 | -0.44 | -0.03 | 12.3 | 11.9 | -1.63 | -0.15 |
| Colombia | 0 | 0 | 0.00 | 0.00 | 440 | 565 | 5.44 | 2.41 | 8.7 | 10.6 | 4.14 | 1.95 |
| Mexico | 188 | 219 | -9.35 | 0.17 | 1 782 | 1 931 | 3.17 | 1.33 | 14.0 | 13.7 | 1.93 | 0.45 |
| Paraguay | 0 | 0 | 0.00 | 0.00 | 34 | 39 | 3.73 | 1.37 | 4.8 | 4.9 | 2.36 | 0.29 |
| Peru | 4 662 | 4 260 | -1.54 | 0.46 | 886 | 1 032 | 3.61 | 1.80 | 27.3 | 28.7 | 2.20 | 0.94 |
| EUROPE | 2 835 | 2 782 | 5.87 | 0.30 | 15 543 | 15 906 | -0.23 | 0.35 | 20.8 | 21.4 | -0.38 | 0.45 |
| European Union ¹ | 861 | 816 | 5.28 | 0.17 | 10 062 | 10 562 | 0.47 | 0.59 | 22.6 | 23.9 | 0.34 | 0.68 |
| United Kingdom | 0 | 0 | 0.00 | 0.00 | 1 146 | 1 132 | -1.49 | -0.33 | 17.0 | 16.1 | -2.13 | -0.69 |
| Norway | 907 | 895 | 10.84 | 0.10 | 277 | 292 | 0.77 | 0.61 | 51.5 | 49.7 | -0.24 | -0.20 |
| Russia | 518 | 605 | 6.98 | 1.15 | 2 992 | 2 923 | -1.57 | 0.16 | 20.5 | 20.4 | -1.75 | 0.36 |
| Ukraine | 0 | 0 | 0.00 | 0.00 | 588 | 546 | -1.68 | -1.04 | 13.4 | 13.4 | -1.22 | -0.36 |
| AFRICA | 685 | 787 | 0.84 | 0.32 | 13 265 | 16 750 | 2.23 | 2.28 | 10.2 | 10.0 | -0.36 | -0.04 |
| Egypt | 0 | 0 | 0.00 | 0.00 | 2 626 | 3 588 | 5.11 | 3.07 | 26.2 | 29.7 | 2.89 | 1.40 |
| Ethiopia | 0 | 0 | 0.00 | 0.00 | 61 | 74 | 10.80 | 1.94 | 0.5 | 0.5 | 7.84 | -0.38 |
| Nigeria | 0 | 0 | 0.00 | 0.00 | 1 755 | 2 218 | -4.27 | 2.08 | 8.7 | 8.4 | -6.75 | -0.37 |
| South Africa | 287 | 335 | 2.37 | 0.13 | 377 | 369 | 0.77 | 0.93 | 6.5 | 5.6 | -0.70 | -0.11 |
| ASIA | 5 842 | 5 826 | 1.65 | 0.35 | 112 005 | 129 583 | 2.76 | 1.39 | 24.5 | 26.2 | 1.77 | 0.70 |
| China ² | 1 674 | 1 589 | -5.00 | 0.83 | 55 982 | 65 926 | 2.63 | 1.51 | 39.1 | 45.0 | 2.12 | 1.35 |
| India | 662 | 750 | 10.91 | 1.53 | 10 522 | 13 176 | 5.74 | 2.37 | 7.7 | 8.8 | 4.59 | 1.51 |
| Indonesia | 62 | 64 | 21.00 | 0.00 | 11 887 | 14 396 | 5.68 | 1.89 | 43.9 | 48.1 | 4.40 | 0.99 |
| Iran | 140 | 134 | 9.62 | 0.17 | 1 060 | 1 200 | 5.26 | 0.76 | 12.8 | 13.0 | 3.88 | -0.20 |
| Japan | 681 | 546 | -0.77 | -1.78 | 5 704 | 4 908 | -1.86 | -1.17 | 45.0 | 40.6 | -1.69 | -0.69 |
| Kazakhstan | 0 | 0 | 0.00 | 0.00 | 78 | 94 | -0.16 | 1.55 | 4.2 | 4.6 | -1.60 | 0.63 |
| Korea | 127 | 117 | -0.91 | -0.30 | 2 944 | 2 992 | 0.65 | 0.11 | 57.5 | 58.5 | 0.32 | 0.14 |
| Malaysia | 168 | 149 | 5.49 | -1.37 | 1 801 | 2 049 | 0.85 | 1.34 | 56.4 | 56.8 | -0.51 | 0.25 |
| Pakistan | 137 | 124 | 4.90 | 0.19 | 282 | 355 | -2.74 | 0.98 | 1.3 | 1.4 | -4.74 | -0.74 |
| Philippines | 0 | 0 | 0.00 | 0.00 | 3 053 | 3 311 | 0.48 | 1.19 | 28.2 | 26.8 | -1.03 | -0.01 |
| Saudi Arabia | 0 | 0 | 0.00 | 0.00 | 392 | 464 | 1.91 | 1.26 | 11.4 | 11.8 | -0.41 | 0.07 |
| Thailand | 430 | 378 | -1.24 | -1.86 | 2 181 | 2 293 | 3.00 | 0.28 | 31.3 | 32.6 | 2.61 | 0.22 |
| Turkey | 114 | 149 | -2.00 | 2.65 | 490 | 492 | 0.94 | -1.17 | 5.9 | 5.5 | -0.63 | -1.67 |
| Viet Nam | 1 172 | 1 324 | 13.71 | 1.17 | 4 030 | 4 373 | 4.30 | 0.64 | 41.8 | 42.0 | 3.25 | -0.02 |
| OCEANIA | 96 | 102 | -4.14 | 0.47 | 1 096 | 1 250 | 1.76 | 1.09 | 26.6 | 26.6 | 0.29 | -0.07 |
| Australia | 26 | 29 | -8.47 | 0.56 | 630 | 686 | 0.28 | 0.83 | 25.0 | 24.4 | -1.09 | -0.15 |
| New Zealand | 46 | 47 | -1.14 | -0.23 | 130 | 145 | 2.01 | 0.70 | 27.2 | 28.1 | 1.02 | 0.00 |
| DEVELOPED COUNTRIES | 4 740 | 4 779 | 2.51 | 0.13 | 31 477 | 32 102 | 0.05 | 0.33 | 22.0 | 21.9 | -0.37 | 0.13 |
| DEVELOPING COUNTRIES | 12 056 | 11 837 | -0.97 | 0.41 | 125 791 | 148 402 | 2.90 | 1.58 | 20.1 | 21.1 | 1.58 | 0.50 |
| LEAST DEVELOPED COUNTRIES (LDC) | 397 | 372 | 4.87 | 0.06 | 12 683 | 15 343 | 3.15 | 1.71 | 14.6 | 13.9 | 0.78 | -0.46 |
| OECD ³ | 5 060 | 5 016 | -1.24 | -0.04 | 32 776 | 33 822 | 0.50 | 0.40 | 23.6 | 23.6 | -0.06 | 0.13 |
| BRICS | 3 191 | 3 326 | -0.70 | 0.96 | 71 655 | 84 289 | 2.72 | 1.56 | 22.3 | 24.8 | 1.92 | 1.08 |

Note: Fish: The term “fish” indicates fish, crustaceans, molluscs and other aquatic animals, but excludes aquatic mammals, crocodiles, caimans, alligators and aquatic plants. Imports and exports refer to trade of food fish i.e. for human consumption. All data are in live weight equivalent. Average 2018-20est: Data for 2020 are estimated.

- Refers to all current European Union member States (excludes the United Kingdom)
- Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
- Excludes Costa Rica.
- Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), “OECD-FAO Agricultural Outlook”, OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.40.1. Ethanol projections: Production and use

Calendar year

| | PRODUCTION (mLn L) | | Growth (%) ⁴ | DOMESTIC USE (mLn L) | | Growth (%) ⁴ | FUEL USE (mLn L) | | Growth (%) ⁴ |
|---------------------------------|--------------------|----------------|-------------------------|----------------------|----------------|-------------------------|--------------------|--------|-------------------------|
| | Average 2018-20est | 2030 | 2021-30 | Average 2018-20est | 2030 | 2021-30 | Average 2018-20est | 2030 | 2021-30 |
| WORLD | 126 069 | 132 049 | 0.58 | 125 884 | 132 408 | 0.57 | .. | .. | .. |
| NORTH AMERICA | 61 336 | 59 620 | -0.32 | 58 028 | 56 534 | -0.20 | .. | .. | .. |
| Canada | 1 968 | 2 220 | 1.03 | 3 256 | 3 369 | 0.55 | 3 085 | 3 095 | 0.43 |
| United States | 59 367 | 57 400 | -0.37 | 54 773 | 53 165 | -0.24 | 52 406 | 50 760 | -0.25 |
| LATIN AMERICA | 38 512 | 40 075 | 1.26 | 37 725 | 39 754 | 1.22 | .. | .. | .. |
| Argentina | 1 206 | 1 314 | 1.09 | 1 175 | 1 285 | 1.00 | 1 006 | 1 057 | 0.57 |
| Brazil | 33 659 | 34 270 | 1.27 | 32 208 | 33 671 | 1.27 | 29 790 | 31 296 | 1.29 |
| Chile | 6 | 13 | 7.74 | 37 | 59 | 1.26 | 0 | 0 | 0.00 |
| Colombia | 524 | 722 | 2.41 | 822 | 970 | 1.32 | 714 | 869 | 1.48 |
| Mexico | 285 | 288 | -0.65 | 423 | 429 | -0.16 | 223 | 233 | -0.18 |
| Paraguay | 549 | 849 | 2.37 | 426 | 578 | 2.59 | 366 | 515 | 2.95 |
| Peru | 205 | 286 | 2.09 | 238 | 318 | 1.86 | 184 | 234 | 1.85 |
| EUROPE | 7 566 | 7 924 | 0.18 | 8 625 | 8 826 | -0.37 | .. | .. | .. |
| European Union ¹ | 5 999 | 6 278 | 0.32 | 6 539 | 6 730 | -0.37 | 4 599 | 4 668 | -0.53 |
| United Kingdom | 640 | 619 | -1.72 | 1 027 | 1 057 | -1.16 | 691 | 686 | -1.74 |
| Russia | 625 | 661 | 0.02 | 529 | 527 | -0.12 | 0 | 0 | 0.00 |
| Ukraine | 157 | 207 | 2.39 | 194 | 187 | 2.67 | 82 | 124 | 3.14 |
| AFRICA | 927 | 1 118 | 2.23 | 973 | 1 162 | 2.14 | .. | .. | .. |
| Egypt | 10 | 13 | 2.92 | 11 | 14 | 2.54 | 0 | 0 | 0.00 |
| Ethiopia | 109 | 168 | 4.27 | 109 | 169 | 4.24 | 45 | 81 | 4.86 |
| Nigeria | 49 | 70 | 3.74 | 182 | 191 | 1.21 | 0 | 0 | 0.00 |
| South Africa | 317 | 328 | 0.54 | 137 | 173 | 1.06 | 5 | 6 | 1.01 |
| ASIA | 17 381 | 22 949 | 2.06 | 20 239 | 25 815 | 1.68 | .. | .. | .. |
| China ² | 10 497 | 11 244 | 0.15 | 10 763 | 11 459 | 0.27 | 4 031 | 4 461 | 0.46 |
| India | 2 919 | 6 738 | 7.06 | 3 400 | 7 437 | 5.91 | 1 643 | 5 509 | 9.01 |
| Indonesia | 186 | 211 | 1.72 | 129 | 157 | 2.38 | 0 | 0 | 0.00 |
| Iran | 0 | 0 | .. | 0 | 0 | .. | 0 | 0 | 0.00 |
| Japan | 77 | 77 | 0.00 | 1 611 | 1 466 | -1.31 | 888 | 695 | -2.58 |
| Kazakhstan | 0 | 0 | .. | 0 | 0 | .. | 0 | 0 | 0.00 |
| Korea | 153 | 190 | -1.04 | 638 | 655 | -1.01 | 5 | 4 | -2.80 |
| Malaysia | 0 | 0 | .. | 0 | 0 | .. | 0 | 0 | 0.00 |
| Pakistan | 698 | 817 | 0.34 | 40 | 80 | 0.09 | 0 | 0 | 0.00 |
| Philippines | 342 | 629 | 3.57 | 790 | 1 078 | 1.93 | 571 | 776 | 2.32 |
| Saudi Arabia | 0 | 15 | 24.14 | 88 | 122 | 1.29 | 0 | 0 | 0.00 |
| Thailand | 1 800 | 2 032 | 0.71 | 1 808 | 2 025 | 0.62 | 1 555 | 1 784 | 0.71 |
| Turkey | 121 | 168 | 1.89 | 256 | 361 | 0.84 | 100 | 100 | -1.09 |
| Viet Nam | 227 | 321 | 4.65 | 253 | 347 | 3.54 | 144 | 233 | 5.71 |
| OCEANIA | 347 | 362 | 0.04 | 294 | 317 | -0.32 | .. | .. | .. |
| Australia | 337 | 350 | 0.00 | 287 | 308 | -0.37 | 203 | 205 | -0.55 |
| New Zealand | 3 | 3 | 0.00 | 0 | 0 | .. | 0 | 0 | 0.00 |
| DEVELOPED COUNTRIES | 69 642 | 68 314 | -0.26 | 68 710 | 67 335 | -0.24 | .. | .. | .. |
| DEVELOPING COUNTRIES | 56 427 | 63 734 | 1.56 | 57 174 | 65 073 | 1.48 | .. | .. | .. |
| LEAST DEVELOPED COUNTRIES (LDC) | 481 | 626 | 2.95 | 484 | 630 | 2.92 | .. | .. | .. |
| OECD³ | 69 520 | 68 362 | -0.25 | 69 885 | 68 776 | -0.24 | .. | .. | .. |
| BRICS | 48 017 | 53 242 | 1.57 | 47 037 | 53 268 | 1.55 | .. | .. | .. |

.. Not available

Note: Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.40.2. Ethanol projections: Share in volume terms and trade

Calendar year

| | SHARE IN GASOLINE TYPE FUEL USE (%) | | IMPORTS (mln L) | | Growth (%) ⁴ | EXPORTS (mln L) | | Growth (%) ⁴ |
|---------------------------------|-------------------------------------|------|--------------------|---------------|-------------------------|--------------------|---------------|-------------------------|
| | Average 2018-20est | 2030 | Average 2018-20est | 2030 | 2021-30 | Average 2018-20est | 2030 | 2021-30 |
| WORLD | .. | .. | 11 662 | 10 692 | -0.91 | 11 008 | 10 342 | -0.94 |
| NORTH AMERICA | .. | .. | 2 496 | 2 247 | -1.13 | 5 941 | 5 354 | -1.85 |
| Canada | 6.4 | 6.8 | 1 327 | 1 239 | -0.29 | 90 | 90 | 0.03 |
| United States | 9.7 | 10.3 | 1 169 | 1 008 | -2.07 | 5 851 | 5 264 | -1.88 |
| LATIN AMERICA | .. | .. | 3 066 | 2 583 | -0.23 | 2 674 | 2 899 | 0.39 |
| Argentina | 11.5 | 12.2 | 12 | 11 | 4.75 | 15 | 41 | 5.26 |
| Brazil | 46.7 | 47.1 | 1 578 | 1 459 | -0.28 | 1 878 | 2 051 | 0.24 |
| Chile | .. | .. | 32 | 46 | 0.00 | 0 | 0 | .. |
| Colombia | .. | .. | 302 | 253 | -1.26 | 4 | 5 | 0.18 |
| Mexico | 0.5 | 0.8 | 140 | 143 | 0.91 | 2 | 1 | 0.05 |
| Paraguay | .. | .. | 2 | 0 | .. | 124 | 271 | 1.94 |
| Peru | .. | .. | 191 | 183 | 0.00 | 159 | 151 | 0.00 |
| EUROPE | .. | .. | 1 833 | 1 743 | -1.63 | 1 106 | 834 | 0.59 |
| European Union ¹ | 5.1 | 6.9 | 926 | 920 | -2.76 | 675 | 462 | 0.90 |
| United Kingdom | 4.5 | 6.2 | 626 | 613 | -0.22 | 259 | 175 | 0.01 |
| Russia | 0.0 | 0.0 | 2 | 2 | -1.95 | 121 | 136 | 0.57 |
| Ukraine | .. | .. | 50 | 3 | 0.00 | 14 | 22 | 0.00 |
| AFRICA | .. | .. | 257 | 232 | 0.00 | 211 | 189 | 0.00 |
| Egypt | .. | .. | 2 | 2 | 0.00 | 1 | 1 | 0.00 |
| Ethiopia | .. | .. | 0 | 1 | 0.00 | 0 | 0 | .. |
| Nigeria | .. | .. | 134 | 122 | 0.00 | 1 | 0 | .. |
| South Africa | .. | .. | 10 | 14 | 0.00 | 190 | 170 | 0.00 |
| ASIA | .. | .. | 3 972 | 3 842 | -0.92 | 1 011 | 977 | -0.82 |
| China ² | 2.2 | 2.1 | 471 | 299 | 0.52 | 146 | 84 | -8.43 |
| India | .. | .. | 559 | 741 | -1.35 | 78 | 42 | 0.72 |
| Indonesia | .. | .. | 32 | 1 | 0.00 | 89 | 55 | 0.00 |
| Iran | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Japan | 1.8 | 1.9 | 1 565 | 1 391 | -1.38 | 1 | 2 | 0.00 |
| Kazakhstan | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Korea | 0.0 | 0.0 | 499 | 465 | -1.00 | 0 | 0 | .. |
| Malaysia | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Pakistan | .. | .. | 0 | 0 | .. | 659 | 737 | 0.36 |
| Philippines | .. | .. | 449 | 450 | 0.00 | 1 | 1 | 0.00 |
| Saudi Arabia | .. | .. | 88 | 107 | 0.00 | 0 | 0 | .. |
| Thailand | .. | .. | 24 | 15 | -5.14 | 17 | 22 | 3.93 |
| Turkey | .. | .. | 139 | 199 | 0.00 | 4 | 6 | 0.00 |
| Viet Nam | .. | .. | 40 | 47 | -2.26 | 14 | 22 | 2.24 |
| OCEANIA | .. | .. | 39 | 44 | -2.30 | 66 | 90 | 0.02 |
| Australia | 1.1 | 1.2 | 38 | 43 | -2.36 | 62 | 86 | 0.02 |
| New Zealand | 0.0 | 0.0 | 1 | 1 | 0.00 | 4 | 4 | 0.00 |
| DEVELOPED COUNTRIES | .. | .. | 5 961 | 5 462 | -1.36 | 7 307 | 6 456 | -1.50 |
| DEVELOPING COUNTRIES | .. | .. | 5 702 | 5 231 | -0.42 | 3 701 | 3 887 | 0.07 |
| LEAST DEVELOPED COUNTRIES (LDC) | .. | .. | 3 | 4 | 0.00 | 0 | 0 | .. |
| OECD³ | .. | .. | 6 941 | 6 494 | -1.25 | 6 953 | 6 095 | -1.59 |
| BRICS | .. | .. | 2 620 | 2 515 | -0.52 | 2 412 | 2 482 | -0.26 |

.. Not available

Note: Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.41.1. Biodiesel projections: Production and use

Calendar year

| | PRODUCTION (mln L) | | Growth (%) ⁴ | DOMESTIC USE (mln L) | | Growth (%) ⁴ |
|---------------------------------|--------------------|---------------|-------------------------|----------------------|---------------|-------------------------|
| | Average 2018-20est | 2030 | | Average 2018-20est | 2030 | |
| WORLD | 46 799 | 49 882 | 0.24 | 47 224 | 50 719 | 0.24 |
| NORTH AMERICA | 8 833 | 8 677 | -0.31 | 9 890 | 9 920 | 0.05 |
| Canada | 348 | 397 | 0.20 | 419 | 418 | -0.47 |
| United States | 8 485 | 8 280 | -0.34 | 9 470 | 9 501 | 0.08 |
| LATIN AMERICA | 8 798 | 9 415 | 1.05 | 7 757 | 8 424 | 1.28 |
| Argentina | 2 350 | 2 380 | 1.03 | 1 137 | 1 237 | 2.95 |
| Brazil | 5 698 | 6 169 | 0.90 | 5 678 | 6 150 | 0.89 |
| Chile | 0 | 0 | .. | 0 | 0 | .. |
| Colombia | 595 | 643 | 1.70 | 595 | 643 | 1.70 |
| Mexico | 0 | 0 | .. | 0 | 0 | .. |
| Paraguay | 12 | 26 | 5.56 | 12 | 26 | 5.56 |
| Peru | 143 | 198 | 3.87 | 335 | 368 | 1.90 |
| EUROPE | 15 966 | 14 921 | -1.08 | 18 899 | 16 832 | -1.60 |
| European Union ¹ | 15 103 | 13 980 | -1.20 | 17 403 | 15 435 | -1.63 |
| United Kingdom | 540 | 627 | 1.00 | 1 174 | 1 084 | -1.70 |
| Russia | 0 | 0 | .. | 0 | 0 | .. |
| Ukraine | 0 | 0 | .. | 0 | 0 | .. |
| AFRICA | 0 | 0 | .. | 0 | 0 | .. |
| Egypt | 0 | 0 | .. | 0 | 0 | .. |
| Ethiopia | 0 | 0 | .. | 0 | 0 | .. |
| Nigeria | 0 | 0 | .. | 0 | 0 | .. |
| South Africa | 0 | 0 | .. | 0 | 0 | .. |
| ASIA | 13 174 | 16 834 | 1.43 | 10 655 | 15 524 | 2.21 |
| China ² | 1 076 | 1 141 | -1.72 | 1 090 | 1 522 | 7.12 |
| India | 217 | 300 | 1.95 | 183 | 232 | 2.17 |
| Indonesia | 7 038 | 9 672 | 2.30 | 5 948 | 9 488 | 2.21 |
| Iran | 0 | 0 | .. | 0 | 0 | .. |
| Japan | 21 | 21 | -0.80 | 14 | 16 | 0.47 |
| Kazakhstan | 0 | 0 | .. | 0 | 0 | .. |
| Korea | 702 | 750 | -0.33 | 678 | 729 | -0.30 |
| Malaysia | 1 340 | 1 637 | 1.49 | 762 | 1 120 | 1.75 |
| Pakistan | 0 | 0 | .. | 0 | 0 | .. |
| Philippines | 205 | 274 | 3.43 | 203 | 274 | 3.43 |
| Saudi Arabia | 0 | 0 | .. | 0 | 0 | .. |
| Thailand | 1 783 | 2 142 | 0.66 | 1 777 | 2 143 | 0.66 |
| Turkey | 0 | 0 | .. | 0 | 0 | .. |
| Viet Nam | 0 | 0 | .. | 0 | 0 | .. |
| OCEANIA | 28 | 35 | 1.52 | 23 | 20 | 2.87 |
| Australia | 28 | 35 | 1.51 | 23 | 20 | 2.87 |
| New Zealand | 0 | 0 | .. | 0 | 0 | .. |
| DEVELOPED COUNTRIES | 24 847 | 23 654 | -0.81 | 28 826 | 26 788 | -1.03 |
| DEVELOPING COUNTRIES | 21 951 | 26 228 | 1.29 | 18 398 | 23 932 | 1.88 |
| LEAST DEVELOPED COUNTRIES (LDC) | 0 | 0 | .. | 0 | 0 | .. |
| OECD³ | 26 144 | 25 047 | -0.74 | 30 099 | 28 159 | -0.95 |
| BRICS | 6 991 | 7 610 | 0.49 | 6 952 | 7 905 | 1.88 |

.. Not available

Note: Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.41.2. Biodiesel projections: Share in volume terms and trade

Calendar year

| | SHARE IN DIESEL TYPE FUEL USE (%) | | IMPORTS (mln L) | | Growth (%) ⁴ | EXPORTS (mln L) | | Growth (%) ⁴ |
|---------------------------------|-----------------------------------|------|--------------------|--------------|-------------------------|--------------------|--------------|-------------------------|
| | Average 2018-20est | 2030 | Average 2018-20est | 2030 | 2021-30 | Average 2018-20est | 2030 | 2021-30 |
| WORLD | .. | .. | 7 717 | 6 080 | -1.20 | 7 063 | 5 261 | -1.38 |
| NORTH AMERICA | .. | .. | 1 825 | 2 156 | 1.76 | 765 | 914 | 0.23 |
| Canada | 1.4 | 1.5 | 373 | 334 | -0.76 | 300 | 313 | 0.04 |
| United States | 4.1 | 4.7 | 1 451 | 1 822 | 2.30 | 465 | 601 | 0.33 |
| LATIN AMERICA | .. | .. | 192 | 170 | 0.00 | 1 230 | 1 158 | -0.62 |
| Argentina | 11.1 | 10.2 | 0 | 0 | .. | 1 218 | 1 140 | -0.67 |
| Brazil | 11.3 | 11.2 | 0 | 0 | .. | 12 | 18 | 3.22 |
| Chile | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Colombia | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Mexico | 0.0 | 0.0 | 0 | 0 | .. | 0 | 0 | .. |
| Paraguay | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Peru | .. | .. | 192 | 170 | 0.00 | 0 | 0 | .. |
| EUROPE | .. | .. | 5 063 | 2 875 | -5.24 | 1 905 | 984 | -5.98 |
| European Union ¹ | 8.8 | 10.3 | 4 359 | 2 343 | -5.53 | 1 835 | 909 | -6.42 |
| United Kingdom | 4.3 | 5.0 | 705 | 532 | -3.83 | 70 | 75 | 1.49 |
| Russia | 0.0 | 0.0 | 0 | 0 | .. | 0 | 0 | .. |
| Ukraine | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| AFRICA | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Egypt | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Ethiopia | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Nigeria | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| South Africa | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| ASIA | .. | .. | 637 | 878 | 27.64 | 3 156 | 2 188 | 0.24 |
| China ² | 0.9 | 0.8 | 622 | 873 | 28.20 | 608 | 492 | -2.00 |
| India | .. | .. | 11 | 2 | -1.15 | 45 | 70 | 1.16 |
| Indonesia | .. | .. | 0 | 0 | .. | 1 090 | 184 | 8.30 |
| Iran | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Japan | 0.1 | 0.1 | 1 | 1 | 0.17 | 8 | 6 | -3.27 |
| Kazakhstan | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Korea | 0.0 | 0.0 | 0 | 0 | .. | 24 | 21 | -1.35 |
| Malaysia | .. | .. | 0 | 0 | .. | 578 | 518 | 0.97 |
| Pakistan | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Philippines | .. | .. | 0 | 0 | .. | 2 | 0 | .. |
| Saudi Arabia | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Thailand | .. | .. | 2 | 2 | 2.94 | 8 | 1 | -4.17 |
| Turkey | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| Viet Nam | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| OCEANIA | .. | .. | 1 | 1 | 0.26 | 6 | 16 | 0.00 |
| Australia | 0.2 | 0.2 | 1 | 1 | 0.26 | 6 | 16 | 0.00 |
| New Zealand | 0.0 | 0.0 | 0 | 0 | .. | 0 | 0 | .. |
| DEVELOPED COUNTRIES | .. | .. | 6 890 | 5 033 | -2.84 | 2 685 | 1 921 | -3.39 |
| DEVELOPING COUNTRIES | .. | .. | 827 | 1 047 | 16.92 | 4 378 | 3 340 | -0.06 |
| LEAST DEVELOPED COUNTRIES (LDC) | .. | .. | 0 | 0 | .. | 0 | 0 | .. |
| OECD³ | .. | .. | 6 890 | 5 033 | -2.84 | 2 709 | 1 942 | -3.37 |
| BRICS | .. | .. | 633 | 874 | 27.97 | 665 | 580 | -1.54 |

.. Not available

Note: Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.42. Main policy assumptions for biofuel markets

| | | 2020est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ARGENTINA | | | | | | | | | | | | |
| Biodiesel | | | | | | | | | | | | |
| Export tax | % | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| BRAZIL | | | | | | | | | | | | |
| Ethanol | | | | | | | | | | | | |
| Import tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Incorporation mandate ³ | % | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |
| Biodiesel | | | | | | | | | | | | |
| Tax concessions ⁴ | BRL/hl | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Import tariff | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CANADA | | | | | | | | | | | | |
| Ethanol | | | | | | | | | | | | |
| Incorporation mandate ³ | % | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Biodiesel | | | | | | | | | | | | |
| Incorporation mandate ³ | % | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| COLOMBIA | | | | | | | | | | | | |
| Ethanol | | | | | | | | | | | | |
| Import tariff | % | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Blending target ^{2,5} | % | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Biodiesel | | | | | | | | | | | | |
| Blending target ² | % | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| EUROPEAN UNION | | | | | | | | | | | | |
| Biofuel | | | | | | | | | | | | |
| Energy share in fuel consumption ⁶ | % | 8.1 | 8.2 | 8.1 | 8.3 | 8.4 | 8.7 | 8.9 | 9.1 | 9.4 | 9.7 | 10.1 |
| Ethanol | | | | | | | | | | | | |
| Tax concessions ⁴ | EUR/hl | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| Import tariff | EUR/hl | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 |
| Biodiesel | | | | | | | | | | | | |
| Tax concessions ⁴ | EUR/hl | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 |
| Import tariff | % | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| INDIA | | | | | | | | | | | | |
| Ethanol | | | | | | | | | | | | |
| Import tariff | % | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Share of biofuel mandates in total fuel consumption | % | 5.7 | 8.0 | 10.0 | 10.9 | 11.9 | 13.0 | 14.1 | 15.4 | 16.8 | 18.3 | 20.0 |
| Biodiesel | | | | | | | | | | | | |
| Import tariff | % | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Share of biofuel mandates in total fuel consumption | % | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| INDONESIA | | | | | | | | | | | | |
| Biodiesel | | | | | | | | | | | | |
| Blending target ² | % | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| MALAYSIA | | | | | | | | | | | | |
| Biodiesel | | | | | | | | | | | | |
| Blending target ² | % | 10.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| THAILAND | | | | | | | | | | | | |
| Ethanol | | | | | | | | | | | | |
| Blending target ² | % | 8.2 | 8.2 | 8.2 | 8.3 | 8.3 | 8.3 | 8.3 | 8.4 | 8.4 | 8.4 | 8.5 |
| Biodiesel | | | | | | | | | | | | |
| Blending target ² | % | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| UNITED STATES | | | | | | | | | | | | |
| Renewable Fuel Standard⁷ | | | | | | | | | | | | |
| Total | mIn L | 70 793 | 70 793 | 67 911 | 67 911 | 67 911 | 67 911 | 67 911 | 67 911 | 67 911 | 67 911 | 67 911 |
| advanced mandate | mIn L | 17 943 | 17 943 | 17 943 | 17 943 | 17 943 | 17 943 | 17 943 | 17 943 | 17 943 | 17 943 | 17 943 |
| cellulosic ethanol | mIn L | 2 233 | 2 233 | 2 233 | 2 233 | 2 233 | 2 233 | 2 233 | 2 233 | 2 233 | 2 233 | 2 233 |
| Ethanol | | | | | | | | | | | | |
| Import surcharge | USD/hl | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Import tariff (undenatured) | % | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 |
| Import tariff (denatured) | % | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 |
| Blender tax credit | USD/hl | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Biodiesel | | | | | | | | | | | | |
| Import tariff | % | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 |
| Blender tax credit | USD/hl | 26.40 | 26.40 | 26.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ANNEX C

Note: 2020est: Data for 2020 are estimated. For many countries, shares for ethanol and biodiesel are not individually specified in the legislation. Figures are based on a combination of the EU mandate in the context of the Renewable Energy Directive and the National Renewable Energy Action Plans (NREAP) in the EU member states.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Expressed in volume share.
3. Share in respective fuel type, in volume.
4. Difference between tax rates applying to fossil and biogen fuels.
5. Applies to cities with more than 500 000 inhabitants.
6. According to the current Renewable energy Directive 2009/28/EC, the energy content of biofuel other than first-generation biofuels counts twice towards meeting the target. It is assumed that other sources than biofuel will help filling the 10% transport energy target.
7. The total, advanced and cellulosic mandates are not at the levels defined in EISA. Details can be found in the policy assumptions section of the biofuel chapter.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.43.1. Cotton projections: Production and trade

Marketing year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | IMPORTS (kt) | | Growth (%) ⁴ | | EXPORTS (kt) | | Growth (%) ⁴ | |
|--|--------------------|---------------|-------------------------|-------------|--------------------|---------------|-------------------------|-------------|--------------------|---------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 25 467 | 28 398 | -0.82 | 1.51 | 8 962 | 11 296 | -0.87 | 1.90 | 9 135 | 11 296 | -0.74 | 1.90 |
| NORTH AMERICA | 3 863 | 4 327 | 2.09 | 1.98 | 1 | 1 | -11.62 | 0.41 | 3 305 | 3 762 | 4.26 | 2.26 |
| Canada | 0 | 0 | .. | .. | 0 | 0 | -15.54 | .. | 0 | 0 | .. | .. |
| United States | 3 863 | 4 327 | 2.09 | 1.98 | 1 | 1 | -10.86 | 0.97 | 3 305 | 3 762 | 4.26 | 2.26 |
| LATIN AMERICA | 3 503 | 3 569 | 6.50 | 2.61 | 362 | 453 | -1.05 | 0.24 | 1 873 | 2 393 | 8.65 | 2.70 |
| Argentina | 283 | 292 | 3.78 | 1.32 | 1 | 1 | -19.90 | -0.61 | 93 | 81 | 2.46 | 1.01 |
| Brazil | 2 833 | 2 903 | 7.77 | 3.03 | 2 | 1 | -22.10 | -0.16 | 1 639 | 2 149 | 8.87 | 2.97 |
| Chile | 0 | 0 | .. | .. | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| Colombia | 15 | 16 | -9.47 | 0.00 | 15 | 11 | -8.56 | 0.00 | 0 | 0 | -62.87 | .. |
| Mexico | 337 | 322 | 3.48 | 0.64 | 195 | 287 | -1.57 | 0.22 | 137 | 159 | 14.92 | 0.34 |
| Paraguay | 4 | 5 | -16.85 | 1.98 | 0 | 0 | -10.74 | .. | 3 | 3 | -18.97 | 2.76 |
| Peru | 20 | 20 | -7.16 | 0.20 | 43 | 41 | -2.71 | -0.24 | 0 | 0 | -16.73 | .. |
| EUROPE | 282 | 294 | -2.03 | 0.35 | 256 | 302 | -7.41 | 0.52 | 371 | 424 | -3.46 | 0.30 |
| European Union ¹ | 281 | 293 | -2.04 | 0.35 | 223 | 268 | -6.18 | 0.53 | 369 | 422 | -3.50 | 0.30 |
| United Kingdom | 0 | 0 | .. | .. | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| Russia | 0 | 0 | .. | .. | 20 | 19 | -16.33 | 0.00 | 1 | 1 | 39.88 | 0.00 |
| Ukraine | 0 | 0 | .. | .. | 2 | 2 | -5.47 | 2.04 | 0 | 0 | .. | .. |
| AFRICA | 1 807 | 2 161 | 2.44 | 2.41 | 145 | 146 | 0.84 | -0.20 | 1 533 | 1 918 | 3.45 | 2.49 |
| Egypt | 85 | 60 | -8.01 | 0.58 | 103 | 104 | 10.50 | 0.03 | 69 | 54 | 1.53 | -0.03 |
| Ethiopia | 63 | 72 | 7.87 | 1.71 | 1 | 3 | -51.51 | 1.03 | 7 | 6 | 34.98 | -4.13 |
| Nigeria | 62 | 90 | -0.14 | 0.00 | 1 | 1 | 0.00 | 0.00 | 29 | 36 | -4.19 | 0.00 |
| South Africa | 33 | 34 | 18.35 | 1.47 | 10 | 10 | -7.89 | -0.46 | 34 | 28 | 19.42 | 0.46 |
| ASIA | 15 653 | 17 268 | -2.41 | 1.07 | 8 196 | 10 392 | -0.63 | 2.06 | 1 617 | 2 019 | -9.74 | -0.27 |
| China ² | 5 967 | 6 189 | -2.92 | 0.49 | 1 885 | 2 211 | -10.81 | 0.83 | 46 | 51 | 23.27 | 0.35 |
| India | 5 960 | 7 195 | -0.80 | 1.50 | 418 | 297 | 12.35 | -0.86 | 896 | 1 517 | -9.64 | 0.89 |
| Indonesia | 3 | 3 | -9.07 | 1.59 | 612 | 795 | -0.04 | 2.79 | 0 | 0 | -69.04 | .. |
| Iran | 59 | 83 | 0.02 | 1.01 | 47 | 27 | -4.62 | 1.36 | 0 | 0 | .. | .. |
| Japan | 0 | 0 | .. | .. | 50 | 49 | -3.95 | -0.85 | 0 | 0 | .. | .. |
| Kazakhstan | 78 | 81 | 0.11 | 0.16 | 1 | 1 | 30.59 | -0.20 | 72 | 69 | 1.79 | 0.20 |
| Korea | 0 | 0 | .. | .. | 144 | 151 | -8.78 | 1.03 | 2 | 0 | 11.81 | .. |
| Malaysia | 0 | 0 | .. | .. | 169 | 230 | 2.21 | 1.85 | 56 | 44 | -10.25 | -1.81 |
| Pakistan | 1 393 | 1 395 | -6.26 | 1.62 | 657 | 1 048 | 15.25 | 0.34 | 12 | 9 | -30.23 | -0.05 |
| Philippines | 0 | 0 | .. | .. | 9 | 10 | 0.48 | 3.52 | 0 | 0 | .. | .. |
| Saudi Arabia | 0 | 0 | .. | .. | 0 | 0 | .. | .. | 0 | 0 | .. | .. |
| Thailand | 1 | 2 | 0.24 | 2.58 | 190 | 173 | -7.08 | -0.07 | 0 | 0 | .. | .. |
| Turkey | 809 | 856 | 0.27 | 1.97 | 938 | 1 140 | 4.49 | 2.21 | 115 | 83 | 10.97 | -2.17 |
| Viet Nam | 0 | 0 | -28.91 | .. | 1 485 | 2 083 | 16.45 | 3.45 | 0 | 0 | .. | .. |
| OCEANIA | 359 | 780 | -13.33 | 2.29 | 1 | 1 | -0.14 | 0.00 | 437 | 778 | -13.52 | 4.25 |
| Australia | 358 | 779 | -13.36 | 2.30 | 0 | 0 | .. | .. | 436 | 777 | -13.55 | 4.26 |
| New Zealand | 1 | 1 | 0.00 | 0.00 | 1 | 1 | 0.00 | 0.00 | 1 | 1 | 0.00 | 0.00 |
| DEVELOPED COUNTRIES | 5 775 | 6 713 | -0.78 | 1.62 | 323 | 368 | -6.80 | 0.29 | 4 613 | 5 287 | -1.23 | 1.80 |
| DEVELOPING COUNTRIES | 19 692 | 21 685 | -0.84 | 1.48 | 8 639 | 10 928 | -0.60 | 1.96 | 4 522 | 6 008 | -0.26 | 1.99 |
| LEAST DEVELOPED COUNTRIES (LDC) | 1 351 | 1 632 | 2.08 | 2.82 | 1 478 | 2 076 | 6.68 | 3.87 | 1 048 | 1 307 | 4.40 | 3.07 |
| OECD³ | 5 673 | 6 602 | -0.04 | 1.86 | 1 569 | 1 911 | -0.37 | 1.44 | 4 375 | 5 214 | 0.93 | 2.15 |
| BRICS | 14 793 | 16 321 | -0.56 | 1.35 | 2 335 | 2 539 | -8.78 | 0.60 | 2 616 | 3 746 | -1.12 | 2.02 |

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.43.2. Cotton projections: Consumption

Marketing year

| | CONSUMPTION (kt) ⁴ | | Growth (%) ⁵ | |
|--|-------------------------------|---------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 24 257 | 28 265 | 0.67 | 1.46 |
| NORTH AMERICA | 547 | 551 | -4.63 | -2.55 |
| Canada | 0 | 0 | -16.69 | .. |
| United States | 546 | 551 | -4.62 | -2.55 |
| LATIN AMERICA | 1 415 | 1 556 | -2.52 | 1.14 |
| Argentina | 145 | 136 | -0.66 | 0.04 |
| Brazil | 650 | 757 | -4.47 | 2.02 |
| Chile | 0 | 0 | .. | .. |
| Colombia | 28 | 27 | -9.47 | 0.00 |
| Mexico | 411 | 451 | 0.37 | 0.48 |
| Paraguay | 2 | 2 | -13.54 | -0.10 |
| Peru | 63 | 60 | -5.16 | -0.10 |
| EUROPE | 163 | 172 | -7.31 | 0.66 |
| European Union ¹ | 130 | 139 | -4.94 | 0.84 |
| United Kingdom | 0 | 0 | .. | .. |
| Russia | 20 | 18 | -16.67 | -0.94 |
| Ukraine | 2 | 2 | -6.40 | 2.04 |
| AFRICA | 335 | 389 | -1.15 | 0.99 |
| Egypt | 119 | 109 | -1.48 | 0.35 |
| Ethiopia | 54 | 70 | 3.54 | 2.36 |
| Nigeria | 27 | 55 | 5.26 | 0.00 |
| South Africa | 15 | 16 | -4.38 | 1.97 |
| ASIA | 21 794 | 25 594 | 1.20 | 1.60 |
| China ² | 7 837 | 8 303 | 0.00 | 0.62 |
| India | 4 994 | 5 975 | 0.95 | 1.52 |
| Indonesia | 622 | 798 | 0.18 | 2.79 |
| Iran | 107 | 110 | -1.13 | 1.09 |
| Japan | 50 | 49 | -4.03 | -0.43 |
| Kazakhstan | 13 | 13 | -0.16 | -0.05 |
| Korea | 142 | 151 | -8.56 | 1.04 |
| Malaysia | 113 | 186 | 26.79 | 2.94 |
| Pakistan | 2 167 | 2 433 | -0.49 | 1.05 |
| Philippines | 9 | 10 | -0.54 | 3.52 |
| Saudi Arabia | 0 | 0 | .. | .. |
| Thailand | 187 | 175 | -7.64 | -0.05 |
| Turkey | 1 515 | 1 913 | 1.68 | 2.35 |
| Viet Nam | 1 478 | 2 083 | 16.30 | 3.45 |
| OCEANIA | 3 | 3 | -13.66 | -0.03 |
| Australia | 2 | 2 | -17.13 | -0.04 |
| New Zealand | 1 | 1 | 0.00 | 0.00 |
| DEVELOPED COUNTRIES | 1 570 | 1 779 | -0.55 | 0.34 |
| DEVELOPING COUNTRIES | 22 686 | 26 486 | 0.76 | 1.54 |
| LEAST DEVELOPED COUNTRIES (LDC) | 1 739 | 2 401 | 5.29 | 3.57 |
| OECD³ | 2 828 | 3 285 | -1.28 | 0.92 |
| BRICS | 13 516 | 15 070 | 0.00 | 1.04 |

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Consumption for cotton means mill consumption and not final consumer demand.
5. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.44. Main policy assumptions for cotton markets

Marketing year

| | | Average 2018-20est | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|--|--------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ARGENTINA | | | | | | | | | | | | |
| Export tax equivalent of export barriers | % | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tariff equivalent of import barriers | % | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| BRAZIL | | | | | | | | | | | | |
| Producer Minimum Price, lint cotton | BRL/t | 5 501.5 | 6 318.1 | 7 070.4 | 8 028.4 | 8 314.1 | 8 392.7 | 8 495.0 | 8 621.2 | 8 797.2 | 8 990.2 | 9 202.7 |
| Tariff equivalent of import barriers | % | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| EUROPEAN UNION | | | | | | | | | | | | |
| Area for coupled payment | kha | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 | 301.7 |
| Coupled payment per ha ¹ | EUR/ha | 830.0 | 830.0 | 830.0 | 830.0 | 830.0 | 830.0 | 830.0 | 830.0 | 830.0 | 830.0 | 830.0 |
| Tariff equivalent of import barriers | % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RUSSIA | | | | | | | | | | | | |
| Tariff equivalent of import barriers | % | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| UNITED STATES | | | | | | | | | | | | |
| Economic Adjustment Assistance payment level | USD/t | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 |
| TRQ | kt | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 |
| In-quota tariff | USD/t | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| Out-of-quota tariff | USD/t | 314.0 | 314.0 | 314.0 | 314.0 | 314.0 | 314.0 | 314.0 | 314.0 | 314.0 | 314.0 | 314.0 |
| CHINA | | | | | | | | | | | | |
| TRQ | kt | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 |
| In-quota tariff | % | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Out-of-quota tariff | % | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |

Note: Marketing year: See Glossary of Terms for definitions. Average 2018-20est: Data for 2020 are estimated.

1. If the area is higher than the ceiling, the amount is proportionally reduced.

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.45. Roots and tubers projections: Production and food consumption

Calendar year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | FOOD CONSUMPTION (kg/cap) | | Growth (%) ⁴ | |
|---------------------------------|--------------------|----------------|-------------------------|-------------|---------------------------|-------------|-------------------------|--------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 236 758 | 278 679 | 2.10 | 1.53 | 16.3 | 17.4 | 0.59 | 0.62 |
| NORTH AMERICA | 5 566 | 5 816 | 0.94 | 0.28 | 12.6 | 12.3 | 0.46 | -0.31 |
| Canada | 961 | 1 005 | 0.95 | 0.32 | 16.7 | 16.2 | 1.65 | -0.47 |
| United States | 4 605 | 4 811 | 0.94 | 0.27 | 12.1 | 11.9 | 0.28 | -0.30 |
| LATIN AMERICA | 14 026 | 15 143 | -0.35 | 0.81 | 12.2 | 12.5 | -0.52 | 0.23 |
| Argentina | 619 | 692 | 0.92 | 0.95 | 9.4 | 9.4 | -0.75 | 0.01 |
| Brazil | 6 062 | 5 577 | -3.74 | -0.49 | 12.0 | 11.0 | -3.97 | -0.51 |
| Chile | 281 | 299 | 0.77 | 0.73 | 14.0 | 15.4 | 1.11 | 0.77 |
| Colombia | 1 381 | 1 660 | 3.50 | 1.50 | 22.2 | 23.1 | 2.13 | 0.23 |
| Mexico | 402 | 451 | 0.51 | 0.94 | 3.4 | 3.4 | -0.28 | 0.02 |
| Paraguay | 1 018 | 1 177 | 5.47 | 1.29 | 40.5 | 36.3 | -0.07 | -1.09 |
| Peru | 1 696 | 2 099 | 3.15 | 1.98 | 33.8 | 38.5 | 2.10 | 1.14 |
| EUROPE | 27 087 | 28 388 | 1.07 | 0.47 | 17.8 | 17.6 | 0.00 | -0.07 |
| European Union ¹ | 11 787 | 12 213 | 0.62 | 0.17 | 13.6 | 12.6 | -1.27 | -0.58 |
| United Kingdom | 1 172 | 1 277 | 0.80 | 0.80 | 24.7 | 25.6 | 1.48 | 0.27 |
| Russia | 7 214 | 7 315 | 2.20 | 0.51 | 24.7 | 26.4 | 1.42 | 0.51 |
| Ukraine | 5 317 | 5 955 | 1.87 | 1.04 | 28.7 | 30.0 | 1.14 | 0.44 |
| AFRICA | 91 504 | 114 495 | 2.83 | 2.16 | 39.4 | 40.1 | 0.36 | 0.31 |
| Egypt | 1 170 | 1 505 | 2.27 | 2.45 | 8.2 | 9.3 | 0.50 | 1.20 |
| Ethiopia | 2 486 | 3 467 | 4.32 | 3.16 | 18.6 | 20.2 | 0.85 | 0.90 |
| Nigeria | 32 546 | 41 105 | 2.77 | 2.08 | 69.2 | 71.9 | 0.50 | 0.30 |
| South Africa | 497 | 584 | 1.21 | 0.99 | 5.9 | 6.2 | -1.23 | 0.37 |
| ASIA | 97 472 | 113 550 | 2.23 | 1.36 | 10.4 | 10.7 | 0.32 | 0.24 |
| China ² | 43 497 | 46 973 | 1.53 | 0.57 | 15.3 | 15.3 | -0.08 | 0.02 |
| India | 13 776 | 17 645 | 2.85 | 2.21 | 7.2 | 8.1 | 1.10 | 0.95 |
| Indonesia | 9 600 | 11 765 | 2.37 | 1.81 | 19.0 | 19.1 | 1.35 | -0.21 |
| Iran | 976 | 1 141 | 0.30 | 1.42 | 10.1 | 10.8 | -0.70 | 0.63 |
| Japan | 733 | 711 | -1.44 | -0.13 | 6.3 | 6.2 | -0.76 | 0.02 |
| Kazakhstan | 799 | 970 | 3.30 | 1.65 | 22.7 | 25.3 | 0.79 | 1.02 |
| Korea | 268 | 263 | 3.59 | -0.42 | 5.3 | 5.4 | 3.99 | -0.01 |
| Malaysia | 39 | 45 | 5.38 | 1.70 | 3.7 | 3.3 | 1.87 | -1.03 |
| Pakistan | 1 056 | 1 379 | 3.38 | 2.47 | 3.7 | 4.3 | 1.14 | 1.56 |
| Philippines | 1 070 | 1 247 | 2.97 | 1.48 | 9.7 | 9.3 | 1.43 | -0.58 |
| Saudi Arabia | 78 | 70 | -1.03 | -0.95 | 4.8 | 5.3 | 6.71 | 0.97 |
| Thailand | 10 958 | 13 273 | 4.38 | 1.87 | 5.4 | 5.8 | 0.00 | 0.63 |
| Turkey | 752 | 738 | -2.34 | -0.12 | 6.7 | 5.9 | -4.93 | -1.00 |
| Viet Nam | 4 159 | 5 323 | 3.01 | 2.26 | 3.9 | 3.7 | 0.12 | -0.88 |
| OCEANIA | 1 102 | 1 286 | 1.20 | 1.37 | 22.3 | 22.7 | -0.54 | 0.16 |
| Australia | 249 | 277 | -0.34 | 0.48 | 10.1 | 9.2 | -1.67 | -0.85 |
| New Zealand | 138 | 146 | 2.85 | 0.49 | 11.9 | 12.6 | -0.02 | 0.56 |
| DEVELOPED COUNTRIES | 36 714 | 38 885 | 1.07 | 0.53 | 14.4 | 14.3 | -0.01 | -0.12 |
| DEVELOPING COUNTRIES | 200 043 | 239 794 | 2.30 | 1.70 | 16.8 | 18.0 | 0.70 | 0.72 |
| LEAST DEVELOPED COUNTRIES (LDC) | 44 948 | 55 735 | 2.82 | 2.28 | 31.8 | 32.3 | 0.69 | 0.44 |
| OECD³ | 22 997 | 24 139 | 0.67 | 0.32 | 11.7 | 11.3 | -0.36 | -0.29 |
| BRICS | 71 045 | 78 095 | 1.28 | 0.84 | 11.9 | 12.1 | -0.10 | 0.16 |

Note: Calendar year. Average 2018-20est: Data for 2020 are estimated. Production and consumption are expressed on dry weight basis.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.46. Pulses projections : Production and food consumption

Calendar year

| | PRODUCTION (kt) | | Growth (%) ⁴ | | FOOD CONSUMPTION (kg/cap) | | Growth (%) ⁴ | |
|--|--------------------|----------------|-------------------------|-------------|---------------------------|-------------|-------------------------|-------------|
| | Average 2018-20est | 2030 | 2011-20 | 2021-30 | Average 2018-20est | 2030 | 2011-20 | 2021-30 |
| WORLD | 89 184 | 111 013 | 2.99 | 2.02 | 7.9 | 9.1 | 1.80 | 1.29 |
| NORTH AMERICA | 10 582 | 12 798 | 4.68 | 1.69 | 6.0 | 7.3 | 4.02 | 1.82 |
| Canada | 7 774 | 9 195 | 4.56 | 1.45 | 15.3 | 17.3 | 3.90 | 1.01 |
| United States | 2 808 | 3 602 | 5.23 | 2.33 | 4.9 | 6.2 | 4.01 | 2.05 |
| LATIN AMERICA | 8 293 | 9 470 | 2.87 | 1.39 | 11.5 | 12.2 | 1.00 | 0.53 |
| Argentina | 826 | 1 005 | 8.69 | 1.72 | 0.9 | 1.1 | 11.58 | 1.65 |
| Brazil | 3 111 | 3 337 | 0.00 | 0.84 | 16.2 | 17.0 | -0.10 | 0.48 |
| Chile | 76 | 89 | 2.35 | 1.24 | 4.9 | 5.5 | 4.05 | 0.97 |
| Colombia | 216 | 244 | 1.49 | 1.32 | 6.7 | 7.0 | -0.28 | 0.34 |
| Mexico | 1 980 | 2 241 | 7.31 | 1.39 | 10.8 | 11.2 | 3.90 | -0.01 |
| Paraguay | 91 | 109 | 4.78 | 1.47 | 11.1 | 11.6 | 3.87 | 0.25 |
| Peru | 310 | 336 | 2.52 | 1.03 | 9.7 | 10.9 | 2.05 | 1.00 |
| EUROPE | 8 390 | 11 025 | 3.78 | 2.66 | 3.6 | 5.0 | 3.08 | 2.72 |
| European Union ¹ | 4 191 | 6 148 | 6.88 | 3.87 | 4.4 | 6.6 | 3.85 | 3.35 |
| United Kingdom | 533 | 583 | 1.54 | 0.77 | 3.9 | 4.0 | 4.40 | 0.09 |
| Russia | 2 660 | 3 222 | 1.65 | 1.67 | 1.9 | 2.1 | 0.57 | 1.18 |
| Ukraine | 362 | 389 | -2.99 | 0.86 | 1.4 | 1.3 | -1.25 | -0.49 |
| AFRICA | 19 577 | 24 716 | 2.97 | 2.19 | 11.5 | 12.0 | 0.48 | 0.44 |
| Egypt | 267 | 295 | -0.23 | 1.11 | 5.5 | 6.0 | 0.61 | 0.72 |
| Ethiopia | 2 064 | 2 612 | -0.05 | 2.41 | 14.5 | 16.3 | -2.46 | 1.59 |
| Nigeria | 3 600 | 4 887 | 5.34 | 2.78 | 12.6 | 14.0 | 2.43 | 0.92 |
| South Africa | 94 | 144 | 3.83 | 4.18 | 1.9 | 1.7 | -4.18 | -0.93 |
| ASIA | 39 640 | 49 708 | 2.61 | 2.05 | 7.3 | 8.6 | 2.00 | 1.43 |
| China ² | 4 786 | 5 270 | 0.76 | 0.91 | 1.5 | 1.9 | 2.13 | 1.98 |
| India | 21 871 | 28 507 | 3.15 | 2.31 | 15.8 | 18.5 | 1.91 | 1.39 |
| Indonesia | 190 | 214 | -5.16 | 2.72 | 1.1 | 1.0 | -2.05 | -1.07 |
| Iran | 1 024 | 1 198 | 3.21 | 1.85 | 11.5 | 13.0 | 1.38 | 1.07 |
| Japan | 81 | 86 | 0.14 | 0.91 | 1.5 | 1.6 | -2.02 | 0.53 |
| Kazakhstan | 69 | 90 | -1.57 | 2.31 | 0.5 | 0.6 | -5.45 | 1.01 |
| Korea | 22 | 31 | 6.24 | 3.10 | 1.4 | 1.4 | 0.58 | 0.03 |
| Malaysia | 0 | 0 | .. | .. | 3.5 | 3.7 | 1.51 | 0.45 |
| Pakistan | 1 279 | 1 412 | 6.71 | 1.43 | 6.7 | 6.4 | 1.85 | -0.26 |
| Philippines | 77 | 93 | 1.87 | 1.83 | 1.3 | 1.2 | -2.00 | -0.73 |
| Saudi Arabia | 17 | 14 | 3.28 | -0.93 | 6.2 | 6.9 | 0.92 | 1.00 |
| Thailand | 245 | 268 | 1.93 | 0.92 | 3.9 | 3.9 | 5.11 | -0.21 |
| Turkey | 1 501 | 1 822 | 2.53 | 1.76 | 14.1 | 14.0 | 1.15 | -0.29 |
| Viet Nam | 332 | 383 | 1.04 | 1.86 | 3.2 | 3.4 | 0.29 | 1.32 |
| OCEANIA | 2 703 | 3 297 | 1.11 | 1.53 | 2.1 | 2.4 | 3.21 | 1.19 |
| Australia | 2 657 | 3 245 | 1.10 | 1.53 | 1.6 | 1.9 | 5.55 | 1.40 |
| New Zealand | 31 | 33 | 1.18 | 0.54 | 4.1 | 4.5 | 0.43 | 0.84 |
| DEVELOPED COUNTRIES | 22 248 | 27 832 | 3.74 | 2.05 | 3.8 | 4.9 | 3.00 | 2.19 |
| DEVELOPING COUNTRIES | 66 936 | 83 181 | 2.74 | 2.01 | 8.8 | 10.0 | 1.58 | 1.12 |
| LEAST DEVELOPED COUNTRIES (LDC) | 18 029 | 22 610 | 3.00 | 2.07 | 11.9 | 12.4 | 1.50 | 0.44 |
| OECD³ | 21 950 | 27 410 | 4.41 | 2.07 | 5.6 | 6.9 | 3.20 | 1.59 |
| BRICS | 32 522 | 40 481 | 2.31 | 1.94 | 8.6 | 10.2 | 1.84 | 1.59 |

.. Not available

Note: Calendar year. Average 2018-20est: Data for 2020 are estimated. Production and consumption are expressed on dry weight basis.

1. Refers to all current European Union member States (excludes the United Kingdom)
2. Refers to mainland only. The economies of Chinese Taipei, Hong Kong (China) and Macau (China) are included in the Asia aggregate.
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.47. Information on food price changes

| | Total inflation % change (year-on-year) | | Food inflation % change (year-on-year) ³ | | Expenditure share of food | | Food contribution to total change in inflation ⁴ | |
|----------------------------|--|------|--|------|---------------------------|------|--|------|
| | 2020 | 2021 | 2020 | 2021 | 2020 | 2021 | 2020 | 2021 |
| OECD | | | | | | | | |
| Australia ¹ | 2.2 | .. | 2.7 | .. | 12.8 | 12.8 | 0.3 | .. |
| Austria | 2.0 | 0.8 | 1.2 | -1.1 | 12.0 | 12.0 | 0.1 | -0.1 |
| Belgium | 1.4 | 0.3 | 1.1 | 1.2 | 17.4 | 17.4 | 0.2 | 0.2 |
| Canada | 2.4 | 1.0 | 3.8 | 0.1 | 11.5 | 11.5 | 0.4 | 0.0 |
| Chile | 3.5 | 3.1 | 5.1 | 7.8 | 18.9 | 18.9 | 1.0 | 1.5 |
| Colombia | 3.6 | 1.6 | 5.1 | 5.5 | 34.7 | 34.7 | 1.8 | 1.9 |
| Czech Republic | 3.6 | 2.2 | 6.3 | 0.6 | 17.0 | 17.0 | 1.1 | 0.1 |
| Denmark | 0.7 | 0.6 | 0.0 | 0.3 | 11.5 | 11.5 | 0.0 | 0.0 |
| Estonia | 1.6 | 0.2 | 2.8 | 0.1 | 21.7 | 21.7 | 0.6 | 0.0 |
| Finland | 1.0 | 0.9 | 1.8 | 0.4 | 13.4 | 13.4 | 0.2 | 0.1 |
| France | 1.5 | 0.6 | 1.9 | 1.0 | 14.7 | 14.7 | 0.3 | 0.1 |
| Germany | 1.7 | 1.0 | 2.4 | 1.9 | 10.4 | 10.4 | 0.3 | 0.2 |
| Greece | 0.9 | -2.0 | -0.1 | -0.4 | 17.1 | 17.1 | 0.0 | -0.1 |
| Hungary | 4.7 | 2.7 | 6.9 | 3.4 | 19.6 | 19.6 | 1.3 | 0.7 |
| Iceland | 1.7 | 4.3 | 1.3 | 6.7 | 14.9 | 14.9 | 0.2 | 1.0 |
| Ireland | 1.3 | -0.2 | -1.1 | -2.1 | 11.7 | 11.7 | -0.1 | -0.2 |
| Israel | 0.3 | -0.4 | -0.9 | -0.1 | 14.3 | 14.3 | -0.1 | 0.0 |
| Italy | 0.5 | 0.4 | 0.6 | 0.6 | 16.3 | 16.3 | 0.1 | 0.1 |
| Japan | 0.7 | -0.6 | 0.7 | -0.1 | 19.0 | 19.0 | 0.1 | 0.0 |
| Korea | 1.5 | 0.6 | 1.8 | 6.5 | 14.4 | 14.4 | 0.3 | 0.9 |
| Luxembourg | 1.9 | 1.9 | 1.5 | 1.2 | 11.1 | 11.1 | 0.2 | 0.1 |
| Mexico | 3.2 | 3.5 | 3.4 | 5.1 | 18.9 | 18.9 | 0.6 | 1.0 |
| Netherlands | 1.8 | 1.6 | 1.8 | 0.5 | 11.3 | 11.3 | 0.2 | 0.1 |
| New Zealand ¹ | 2.5 | .. | 2.3 | .. | 17.4 | 17.4 | 0.4 | .. |
| Norway | 1.8 | 2.5 | 2.1 | 0.7 | 13.3 | 13.3 | 0.3 | 0.1 |
| Poland | 4.3 | 2.6 | 7.5 | 0.8 | 24.1 | 24.1 | 1.8 | 0.2 |
| Portugal | 0.8 | 0.3 | 0.8 | 1.0 | 18.1 | 18.1 | 0.1 | 0.2 |
| Slovak Republic | 3.0 | 0.7 | 4.4 | -0.5 | 18.4 | 18.4 | 0.8 | -0.1 |
| Slovenia | 2.1 | -0.7 | 3.4 | 0.1 | 17.0 | 17.0 | 0.6 | 0.0 |
| Spain | 1.1 | 0.5 | 2.0 | 1.7 | 18.2 | 18.2 | 0.4 | 0.3 |
| Sweden | 1.3 | 1.6 | 2.4 | 1.9 | 13.9 | 13.9 | 0.3 | 0.3 |
| Switzerland | 0.2 | -0.5 | -1.0 | -0.3 | 10.8 | 10.8 | -0.1 | 0.0 |
| Turkey | 12.2 | 15.0 | 9.0 | 18.1 | 26.8 | 26.8 | 2.4 | 4.9 |
| United Kingdom | 1.8 | 0.9 | 1.4 | -0.7 | 11.8 | 11.8 | 0.2 | -0.1 |
| United States | 2.5 | 1.4 | 0.7 | 3.7 | 7.8 | 7.8 | 0.1 | 0.3 |
| OECD Total ² | 2.4 | 1.5 | 1.9 | 3.1 | .. | .. | .. | .. |
| Enhanced Engagement | | | | | | | | |
| Brazil | 4.2 | 4.6 | 5.8 | 16.2 | 22.5 | 22.5 | 1.3 | 3.6 |
| China | 5.4 | -0.3 | 20.6 | 1.4 | 33.6 | 33.6 | 6.9 | 0.5 |
| India | 7.5 | 4.1 | 13.6 | 1.9 | 35.4 | 35.4 | 4.8 | 0.7 |
| Indonesia | 2.7 | 1.6 | 4.3 | 2.8 | 19.6 | 19.6 | 0.8 | 0.6 |
| Russia | 2.4 | 5.2 | 2.1 | 8.0 | 32.8 | 32.8 | 0.7 | 2.6 |
| South Africa | 4.4 | 3.2 | 3.8 | 5.3 | 18.3 | 18.3 | 0.7 | 1.0 |

ANNEX C

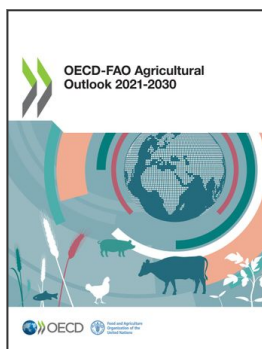
Table C.47. Information on food price changes (cont.)

| | Total inflation % change (year-on-year) | | Food inflation % change (year-on-year) ³ | | Expenditure share of food | | Food contribution to total change in inflation ⁴ | |
|--------------------|--|------|--|------|---------------------------|------|--|------|
| | 2020 | 2021 | 2020 | 2021 | 2020 | 2021 | 2020 | 2021 |
| Non OECD | | | | | | | | |
| Algeria | 1.4 | 4.2 | -1.0 | 4.0 | 43.8 | 43.8 | -0.4 | 1.7 |
| Bangladesh | 5.6 | 5.0 | 5.1 | 5.2 | 28.6 | 28.6 | 1.5 | 1.5 |
| Bolivia | 1.2 | 1.2 | 1.2 | 1.2 | 27.6 | 27.6 | 0.3 | 0.3 |
| Botswana | 2.2 | 2.3 | 3.2 | 0.5 | 23.7 | 23.7 | 0.8 | 0.1 |
| Bulgaria | 4.2 | -0.6 | 8.0 | -0.4 | 37.2 | 37.2 | 3.0 | -0.1 |
| Costa Rica | 1.6 | 1.0 | -0.3 | 3.8 | 21.4 | 21.4 | -0.1 | 0.8 |
| Dominican Republic | 2.1 | 6.2 | 7.6 | 8.9 | 29.2 | 29.2 | 2.2 | 2.6 |
| Ecuador | -0.3 | -1.0 | -0.7 | 1.0 | 23.0 | 23.0 | -0.2 | 0.2 |
| Egypt | 7.2 | 4.8 | 2.6 | -0.5 | 26.3 | 26.3 | 0.7 | -0.1 |
| El Salvador | 2.1 | -0.7 | 3.4 | 0.1 | 26.0 | 26.0 | 0.9 | 0.0 |
| Ethiopia | 18.7 | 19.2 | 21.0 | 23.2 | 57.0 | 57.0 | 12.0 | 13.2 |
| Ghana | 7.8 | 9.9 | 7.8 | 12.8 | 37.0 | 37.0 | 2.9 | 4.7 |
| Guatemala | 1.8 | 5.2 | 1.3 | 9.2 | 28.6 | 28.6 | 0.4 | 2.6 |
| Haiti | 20.7 | 18.7 | 24.9 | 22.5 | 50.4 | 50.4 | 12.5 | 11.3 |
| Honduras | 3.5 | 4.2 | 1.2 | 3.7 | 31.8 | 31.8 | 0.4 | 1.2 |
| Iraq | 1.0 | 0.9 | -2.8 | -3.1 | 35.0 | 35.0 | -1.0 | -1.1 |
| Jordan | -0.4 | -0.3 | -1.9 | -0.8 | 35.2 | 35.2 | -0.7 | -0.3 |
| Kenya | 5.8 | 5.7 | 9.6 | 7.4 | 36.0 | 36.0 | 3.5 | 2.6 |
| Madagascar | 3.9 | 5.0 | 3.0 | 5.7 | 60.0 | 60.0 | 1.8 | 3.4 |
| Malawi | 11.8 | 7.7 | 17.6 | 9.7 | 50.0 | 50.0 | 8.8 | 4.9 |
| Malaysia | 1.6 | -0.2 | 0.9 | 1.5 | 56.3 | 56.3 | 0.5 | 0.8 |
| Moldavia | 6.9 | 0.2 | 11.5 | 1.3 | 60.0 | 60.0 | 6.9 | 0.8 |
| Morocco | 1.3 | 0.0 | 1.4 | -0.8 | 40.4 | 40.4 | 0.6 | -0.3 |
| New Caledonia | -0.1 | -0.7 | 0.9 | 4.4 | 21.0 | 21.0 | 0.2 | 0.9 |
| Nicaragua | 6.3 | 2.2 | 6.0 | 5.9 | 26.1 | 26.1 | 1.6 | 1.5 |
| Niger | 0.3 | .. | -0.2 | .. | 40.0 | 40.0 | -0.1 | .. |
| Nigeria | 12.1 | 16.5 | 14.9 | 20.6 | 51.8 | 51.8 | 7.7 | 10.7 |
| Pakistan | 15.4 | 5.7 | 17.8 | 6.7 | 37.5 | 37.5 | 6.7 | 2.5 |
| Panama | 0.4 | -1.1 | -0.5 | 1.0 | 33.6 | 33.6 | -0.2 | 0.3 |
| Paraguay | 2.8 | 2.6 | 2.4 | 5.4 | 39.1 | 39.1 | 0.9 | 2.1 |
| Peru | 1.9 | 2.9 | 2.8 | 3.7 | 25.0 | 25.0 | 0.7 | 0.9 |
| Philippines | 3.0 | 2.2 | 2.4 | 5.4 | 39.0 | 39.0 | 0.9 | 2.1 |
| Romania | 4.8 | 3.0 | 3.6 | 2.9 | 37.4 | 37.4 | 1.3 | 1.1 |
| Rwanda | 7.3 | 2.8 | 15.8 | 2.0 | 39.0 | 39.0 | 6.2 | 0.8 |
| Senegal | 2.0 | 0.9 | 2.0 | 0.6 | 53.4 | 53.4 | 1.1 | 0.3 |
| Singapore | 0.3 | 0.2 | 1.6 | 1.5 | 21.7 | 21.7 | 0.3 | 0.3 |
| Sri Lanka | 5.7 | 3.3 | 12.4 | 7.9 | 41.0 | 41.0 | 5.1 | 3.2 |
| Chinese Taipei | 1.8 | 1.8 | 2.6 | .. | 23.7 | 23.7 | 0.6 | 0.0 |
| Tanzania | 3.7 | 3.5 | 5.7 | 2.8 | 38.5 | 38.5 | 2.2 | 1.1 |
| Thailand | 1.0 | -0.4 | 1.9 | 0.6 | 33.0 | 33.0 | 0.6 | 0.2 |
| Tunisia | 5.9 | 4.9 | 4.4 | 4.9 | 28.7 | 28.7 | 1.3 | 1.4 |
| Uganda | 3.4 | 3.7 | 3.1 | -1.2 | 27.2 | 27.2 | 0.8 | -0.3 |
| Zambia | 12.5 | 21.5 | 15.4 | 25.6 | 52.5 | 52.5 | 8.1 | 13.4 |

.. Not available

1. No data available for January 2021 in Australia and New Zealand.
2. Excludes Costa Rica.
3. CPI food: definition based on national sources.
4. Contribution is food inflation multiplied by expenditure share, expressed in %.

Source: OECD and national sources.



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