

Annex C. Statistical Annex

ANNEX C

Table C.1. World cereal projections

Marketing year

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
WHEAT												
World												
Production	Mt	769.7	785.3	788.0	792.9	798.0	805.1	812.7	819.9	826.6	833.3	840.1
Area	Mha	219.8	224.6	223.8	223.7	223.6	224.0	224.5	225.0	225.3	225.6	225.9
Yield	t/ha	3.50	3.50	3.52	3.54	3.57	3.59	3.62	3.64	3.67	3.69	3.72
Consumption	Mt	756.6	785.8	784.5	790.0	796.3	803.3	810.6	818.0	824.9	832.0	838.7
Feed use	Mt	148.7	157.5	159.0	160.4	161.0	162.0	163.5	165.0	166.4	167.6	168.5
Food use	Mt	524.8	537.3	542.7	547.8	552.7	557.6	562.6	567.4	572.2	576.8	581.4
Biofuel use	Mt	8.7	9.3	9.4	9.5	9.8	10.2	10.5	10.8	11.2	11.6	12.0
Other use	Mt	74.4	81.7	73.5	72.3	72.7	73.5	74.0	74.8	75.2	75.9	76.7
Exports	Mt	189.8	187.2	193.4	197.9	201.2	204.4	207.2	210.0	212.7	215.2	217.9
Closing stocks	Mt	288.2	297.5	301.0	303.9	305.6	307.4	309.5	311.4	313.1	314.5	315.9
Price ¹	USD/t	287.1	345.7	284.1	260.4	256.7	256.0	260.0	262.7	265.2	268.2	271.0
Developed countries												
Production	Mt	396.5	398.6	399.0	401.2	403.8	407.6	411.7	415.2	418.5	421.9	425.2
Consumption	Mt	261.4	275.4	265.7	263.9	263.8	264.4	265.6	266.3	267.1	268.3	269.1
Net trade	Mt	133.9	126.2	131.9	136.5	139.8	142.9	145.5	148.2	150.8	153.2	155.7
Closing stocks	Mt	73.5	76.9	78.3	79.1	79.4	79.6	80.1	80.8	81.4	81.7	82.1
Developing countries												
Production	Mt	373.2	386.7	389.0	391.7	394.2	397.5	401.0	404.7	408.1	411.5	414.8
Consumption	Mt	495.3	510.4	518.8	526.1	532.5	538.8	545.0	551.7	557.8	563.7	569.6
Net trade	Mt	-129.5	-126.2	-131.9	-136.5	-139.8	-142.9	-145.5	-148.2	-150.8	-153.2	-155.7
Closing stocks	Mt	214.7	220.5	222.7	224.8	226.2	227.8	229.4	230.6	231.7	232.7	233.7
OECD²												
Production	Mt	280.6	286.6	286.1	286.1	286.0	286.7	288.2	289.1	290.0	290.9	292.0
Consumption	Mt	216.5	220.9	220.9	221.2	221.0	220.5	221.1	221.2	221.6	222.1	222.5
Net trade	Mt	67.3	63.3	64.7	64.3	64.7	65.7	66.6	67.5	68.1	68.6	69.2
Closing stocks	Mt	57.8	56.7	57.1	57.8	58.1	58.6	59.1	59.5	59.9	60.1	60.5
MAIZE												
World												
Production	Mt	1 173.3	1 206.6	1 221.8	1 235.2	1 248.2	1 262.4	1 276.6	1 292.0	1 306.2	1 320.9	1 335.0
Area	Mha	200.4	203.5	205.0	205.8	206.4	206.9	207.6	208.5	209.2	209.9	210.6
Yield	t/ha	5.85	5.93	5.96	6.00	6.05	6.10	6.15	6.20	6.24	6.29	6.34
Consumption	Mt	1 181.7	1 217.3	1 230.0	1 242.9	1 252.4	1 266.1	1 279.2	1 292.9	1 306.9	1 321.5	1 336.1
Feed use	Mt	690.2	714.9	728.5	737.5	746.5	756.0	765.7	775.8	785.9	796.2	806.3
Food use	Mt	146.3	151.3	154.1	156.6	159.1	161.5	163.9	166.4	168.8	171.3	173.7
Biofuel use	Mt	182.8	189.7	187.9	187.6	187.8	187.9	188.1	188.3	188.4	188.6	188.8
Other use	Mt	118.9	116.2	114.1	115.4	113.1	114.5	115.3	116.1	117.1	118.6	120.2
Exports	Mt	174.0	174.3	175.1	174.6	177.3	180.0	182.5	186.0	189.5	192.8	195.8
Closing stocks	Mt	305.8	310.7	307.5	304.9	305.7	307.0	309.3	313.4	317.8	322.1	326.0
Price ³	USD/t	221.8	268.0	218.0	200.0	196.1	195.8	199.8	201.6	202.9	204.5	206.0
Developed countries												
Production	Mt	527.1	537.6	541.0	545.4	549.3	554.2	558.4	563.4	567.8	572.6	577.2
Consumption	Mt	466.6	484.0	487.3	493.0	496.3	499.5	502.0	505.2	508.3	511.5	514.8
Net trade	Mt	60.3	57.3	53.9	52.4	53.9	55.4	56.2	57.3	58.5	59.9	61.3
Closing stocks	Mt	90.3	95.4	95.2	95.2	94.3	93.7	93.9	94.8	95.7	96.9	97.9
Developing countries												
Production	Mt	646.2	669.1	680.8	689.8	698.9	708.1	718.1	728.7	738.5	748.2	757.8
Consumption	Mt	715.1	733.3	742.7	749.9	756.1	766.6	777.2	787.8	798.6	810.0	821.4
Net trade	Mt	-67.6	-62.3	-58.9	-57.4	-58.9	-60.4	-61.2	-62.3	-63.5	-64.9	-66.3
Closing stocks	Mt	215.5	215.3	212.3	209.7	211.4	213.3	215.5	218.7	222.1	225.2	228.0
OECD²												
Production	Mt	481.1	503.8	506.6	510.2	512.7	515.8	518.1	520.9	523.4	526.2	528.7
Consumption	Mt	500.7	516.4	520.5	526.7	530.2	533.7	536.6	540.2	543.9	547.6	551.3
Net trade	Mt	-11.5	-13.4	-15.6	-18.2	-18.4	-18.5	-19.2	-20.3	-21.4	-22.4	-23.6
Closing stocks	Mt	75.9	70.8	72.6	74.2	75.1	75.8	76.5	77.5	78.4	79.4	80.4

ANNEX C

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

Marketing year

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
OTHER COARSE GRAINS												
World												
Production	Mt	307.1	308.8	312.5	315.0	317.0	320.3	322.8	326.2	329.1	332.4	335.4
Area	Mha	148.4	149.9	150.6	150.7	150.4	150.6	150.5	150.7	150.7	150.9	150.9
Yield	t/ha	2.07	2.06	2.08	2.09	2.11	2.13	2.14	2.16	2.18	2.20	2.22
Consumption	Mt	299.2	305.1	307.4	309.8	312.5	316.2	318.7	321.9	324.7	327.8	330.8
Feed use	Mt	169.6	171.3	170.3	171.7	172.9	174.9	176.1	177.6	178.9	180.3	181.6
Food use	Mt	80.3	84.7	86.1	87.8	89.1	90.7	92.0	93.5	94.8	96.3	97.6
Biofuel use	Mt	4.8	5.1	5.0	5.0	5.1	5.2	5.2	5.3	5.4	5.5	5.5
Other use	Mt	44.5	44.1	46.0	45.3	45.3	45.5	45.4	45.5	45.7	45.8	46.0
Exports	Mt	47.9	47.6	48.1	48.5	48.6	49.2	50.0	50.7	51.3	52.1	52.6
Closing stocks	Mt	61.3	60.9	62.3	63.8	64.7	65.2	65.6	66.3	67.0	68.0	69.0
Price ⁴	USD/t	244.7	318.9	259.0	236.8	231.4	229.0	234.0	237.1	240.2	242.9	245.4
Developed countries												
Production	Mt	188.7	181.1	182.5	183.0	183.5	184.6	185.3	186.5	187.5	188.6	189.5
Consumption	Mt	149.7	148.0	148.3	147.5	147.5	148.1	148.0	148.3	148.6	148.9	149.2
Net trade	Mt	35.1	34.4	34.4	35.1	35.5	36.4	37.2	38.0	38.6	39.3	39.9
Closing stocks	Mt	32.9	33.6	33.4	33.8	34.4	34.5	34.6	34.8	35.1	35.4	35.8
Developing countries												
Production	Mt	118.4	127.7	130.0	131.9	133.4	135.7	137.5	139.7	141.6	143.9	146.0
Consumption	Mt	149.5	157.1	159.2	162.3	165.0	168.1	170.7	173.6	176.1	178.9	181.5
Net trade	Mt	-31.5	-30.7	-30.8	-31.5	-31.8	-32.7	-33.6	-34.3	-35.0	-35.7	-36.3
Closing stocks	Mt	28.4	27.3	28.9	30.0	30.3	30.7	31.0	31.5	31.9	32.6	33.3
OECD²												
Production	Mt	154.5	150.3	151.4	151.5	151.5	152.0	152.3	153.0	153.5	154.0	154.4
Consumption	Mt	129.2	128.3	128.6	127.9	127.8	128.5	128.5	128.8	129.2	129.6	130.0
Net trade	Mt	22.2	23.9	23.2	23.2	23.0	23.4	23.8	24.0	24.1	24.2	24.1
Closing stocks	Mt	24.1	23.3	23.0	23.4	24.1	24.3	24.3	24.5	24.7	25.0	25.3
RICE												
World												
Production	Mt	516.3	530.1	537.2	542.8	549.3	555.6	562.0	568.1	573.8	579.3	584.4
Area	Mha	164.0	165.4	166.0	165.7	165.6	165.5	165.4	165.4	165.3	165.2	165.1
Yield	t/ha	3.15	3.20	3.24	3.28	3.32	3.36	3.40	3.44	3.47	3.51	3.54
Consumption	Mt	511.4	527.7	534.8	541.5	548.0	554.2	560.5	566.7	572.6	578.4	583.7
Feed use	Mt	19.8	21.6	20.7	19.9	20.1	20.4	20.8	21.2	21.5	21.9	22.2
Food use	Mt	419.7	432.2	437.7	443.1	448.3	453.3	458.2	462.8	467.3	471.6	475.7
Exports	Mt	48.8	52.7	52.9	54.0	55.3	57.1	58.7	60.2	61.6	63.0	64.5
Closing stocks	Mt	195.9	201.7	204.0	205.4	206.7	208.2	209.7	211.1	212.3	213.1	213.8
Price ⁵	USD/t	404.0	398.4	400.5	404.8	408.8	410.6	411.9	412.7	413.7	414.7	415.9
Developed countries												
Production	Mt	17.6	17.6	17.5	17.3	17.3	17.3	17.3	17.3	17.2	17.2	17.2
Consumption	Mt	19.6	19.6	19.6	19.7	19.8	19.9	19.9	20.0	20.1	20.1	20.2
Net trade	Mt	-2.6	-2.8	-2.8	-2.9	-2.9	-2.8	-2.9	-2.9	-2.9	-2.9	-3.0
Closing stocks	Mt	11.4	13.1	13.7	14.3	14.7	15.0	15.3	15.4	15.5	15.5	15.4
Developing countries												
Production	Mt	498.7	512.5	519.7	525.5	532.0	538.3	544.8	550.8	556.5	562.1	567.2
Consumption	Mt	491.8	508.1	515.2	521.8	528.2	534.3	540.6	546.7	552.5	558.3	563.5
Net trade	Mt	4.8	2.8	2.8	2.9	2.9	2.8	2.9	2.9	2.9	2.9	3.0
Closing stocks	Mt	184.4	188.6	190.3	191.1	192.0	193.1	194.4	195.7	196.8	197.6	198.4
OECD²												
Production	Mt	22.3	22.4	22.3	22.1	22.0	21.9	21.7	21.6	21.5	21.4	21.3
Consumption	Mt	24.5	24.8	24.9	24.9	24.8	24.8	24.9	24.9	25.0	25.0	25.0
Net trade	Mt	-3.1	-3.1	-3.1	-3.2	-3.3	-3.3	-3.4	-3.5	-3.5	-3.6	-3.7
Closing stocks	Mt	13.2	15.0	15.6	16.0	16.5	16.8	17.0	17.2	17.3	17.3	17.2

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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. FAO all rice price index normalised to India, indica high quality 5% broken average 2014-2016 (January/December).

Source: OECD/FAO (2022), "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 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
SOYBEAN												
World												
Production	Mt	353.0	376.6	381.1	383.9	388.3	391.8	396.5	400.2	404.2	407.5	411.1
Area	Mha	128.1	133.3	133.9	134.1	134.5	134.8	135.5	135.8	136.2	136.3	136.6
Yield	t/ha	2.76	2.82	2.85	2.86	2.89	2.91	2.93	2.95	2.97	2.99	3.01
Consumption	Mt	360.1	373.3	378.4	383.1	387.7	391.3	395.7	399.5	403.2	406.7	410.8
Crush	Mt	327.0	336.4	341.3	345.9	350.3	353.7	357.8	361.3	364.8	368.1	372.0
Closing stocks	Mt	38.5	40.5	43.3	44.1	44.7	45.2	46.0	46.7	47.7	48.5	48.8
Price ¹	USD/t	510.7	560.3	497.2	472.2	475.0	480.0	489.4	499.6	504.8	512.4	523.3
Developed countries												
Production	Mt	129.6	140.7	142.9	143.8	145.5	146.8	148.5	149.7	151.2	152.4	153.6
Consumption	Mt	96.8	97.5	99.3	100.4	101.2	102.1	102.9	103.5	104.3	105.2	105.8
Crush	Mt	88.6	88.8	90.6	91.7	92.4	93.3	94.1	94.6	95.4	96.3	96.8
Closing stocks	Mt	10.8	9.3	10.8	11.1	11.3	11.4	11.6	11.8	12.0	12.1	12.3
Developing countries												
Production	Mt	223.4	235.9	238.2	240.0	242.8	245.1	248.1	250.5	253.0	255.1	257.4
Consumption	Mt	263.3	275.8	279.1	282.7	286.5	289.3	292.8	296.0	298.9	301.5	305.0
Crush	Mt	238.4	247.6	250.7	254.2	257.8	260.4	263.7	266.7	269.4	271.8	275.2
Closing stocks	Mt	27.7	31.2	32.5	33.0	33.4	33.8	34.4	35.0	35.7	36.4	36.5
OECD²												
Production	Mt	120.5	131.8	133.8	134.7	136.2	137.2	138.7	139.8	141.0	142.0	143.1
Consumption	Mt	98.1	98.7	100.5	101.5	102.4	103.3	104.1	104.7	105.5	106.4	106.9
Crush	Mt	90.3	90.4	92.2	93.2	94.1	95.0	95.7	96.2	97.0	97.9	98.4
Closing stocks	Mt	11.1	9.6	11.2	11.7	11.9	12.0	12.2	12.4	12.6	12.7	12.9
OTHER OILSEEDS												
World												
Production	Mt	159.8	169.7	171.6	172.5	176.2	178.3	180.1	182.1	184.0	185.9	187.6
Area	Mha	91.5	95.3	95.3	95.4	96.3	96.5	96.6	96.7	96.9	97.1	97.2
Yield	t/ha	1.75	1.78	1.80	1.81	1.83	1.85	1.87	1.88	1.90	1.92	1.93
Consumption	Mt	159.9	167.4	171.7	173.0	176.1	178.4	180.2	182.2	184.0	185.9	187.6
Crush	Mt	138.3	145.5	149.8	151.3	154.4	156.8	158.7	160.7	162.5	164.5	166.2
Closing stocks	Mt	9.3	11.4	11.3	10.8	10.9	10.8	10.8	10.7	10.7	10.7	10.8
Price ³	USD/t	612.1	720.5	589.9	581.7	559.5	562.1	577.5	585.0	593.7	602.9	612.4
Developed countries												
Production	Mt	94.7	102.2	103.2	103.5	106.3	107.8	108.9	110.1	111.3	112.4	113.4
Consumption	Mt	87.9	91.7	95.0	95.7	97.6	98.9	99.7	100.6	101.4	102.3	103.1
Crush	Mt	80.4	84.0	87.2	88.0	89.9	91.1	91.9	92.8	93.5	94.3	95.1
Closing stocks	Mt	7.0	8.9	8.8	8.3	8.4	8.3	8.2	8.1	8.1	8.0	8.0
Developing countries												
Production	Mt	65.1	67.5	68.4	69.0	69.9	70.5	71.3	72.0	72.8	73.5	74.2
Consumption	Mt	71.9	75.6	76.7	77.3	78.5	79.5	80.5	81.6	82.6	83.6	84.5
Crush	Mt	57.8	61.5	62.6	63.3	64.5	65.7	66.8	67.9	69.0	70.1	71.1
Closing stocks	Mt	2.3	2.4	2.5	2.5	2.6	2.6	2.6	2.6	2.7	2.7	2.7
OECD²												
Production	Mt	56.0	62.6	62.5	62.0	63.7	64.5	64.7	65.2	65.7	66.2	66.5
Consumption	Mt	57.2	59.0	61.5	61.9	63.0	63.6	63.9	64.2	64.4	64.6	64.8
Crush	Mt	51.6	53.6	56.0	56.4	57.5	58.1	58.3	58.7	58.8	59.0	59.1
Closing stocks	Mt	4.8	6.1	6.5	6.5	6.7	6.7	6.7	6.6	6.6	6.6	6.6
PROTEIN MEALS												
World												
Production	Mt	357.5	368.6	375.0	379.8	385.1	389.1	393.6	397.6	401.6	405.3	409.6
Consumption	Mt	358.5	368.2	374.5	379.7	385.1	389.2	393.6	397.6	401.5	405.2	409.4
Closing stocks	Mt	13.7	14.0	14.5	14.7	14.7	14.6	14.6	14.6	14.7	14.8	15.0
Price ⁴	USD/t	407.5	437.5	391.5	373.2	371.4	375.2	385.7	392.7	399.5	406.9	412.3
Developed countries												
Production	Mt	113.3	115.3	118.3	119.5	121.0	122.3	123.4	124.3	125.3	126.4	127.2
Consumption	Mt	124.1	123.9	126.4	127.1	128.0	128.3	128.4	128.7	128.8	128.9	129.1
Closing stocks	Mt	2.4	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.4	2.4
Developing countries												
Production	Mt	244.2	253.3	256.7	260.3	264.1	266.8	270.2	273.4	276.3	278.9	282.3
Consumption	Mt	234.4	244.4	248.1	252.6	257.1	260.9	265.2	268.9	272.7	276.3	280.4
Closing stocks	Mt	11.3	11.7	12.2	12.3	12.3	12.2	12.2	12.3	12.4	12.5	12.6
OECD²												
Production	Mt	103.3	104.6	107.3	108.4	109.7	110.8	111.6	112.2	113.0	113.9	114.4
Consumption	Mt	130.3	129.9	132.3	133.1	134.1	134.6	134.8	135.2	135.5	135.7	136.0
Closing stocks	Mt	1.7	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

ANNEX C

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

Marketing year

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
VEGETABLE OILS												
World												
Production	Mt	214.3	224.4	228.4	230.8	234.1	236.7	239.4	241.9	244.2	246.5	249.0
of which palm oil	Mt	76.6	81.9	82.9	83.6	84.6	85.4	86.4	87.3	88.1	88.8	89.6
Consumption	Mt	213.8	223.5	228.0	230.9	233.8	236.4	239.0	241.5	244.0	246.3	248.7
Food	Mt	140.7	144.1	147.5	149.7	152.2	154.4	156.6	158.5	160.5	162.4	164.3
Biofuel	Mt	32.1	36.4	36.2	36.4	36.3	36.2	36.2	36.3	36.2	36.3	36.4
Exports	Mt	85.6	87.5	88.7	89.4	90.2	90.9	91.5	92.1	92.5	93.0	93.5
Closing stocks	Mt	17.8	19.0	19.3	19.3	19.6	19.9	20.2	20.5	20.8	21.1	21.4
Price ⁵	USD/t	1 145.1	1 218.5	1 091.3	1 109.3	1 100.2	1 117.5	1 129.9	1 147.5	1 163.0	1 181.8	1 200.8
Developed countries												
Production	Mt	53.0	54.4	56.1	56.6	57.6	58.3	58.8	59.3	59.8	60.3	60.8
Consumption	Mt	55.9	58.1	58.3	58.5	58.5	58.4	58.4	58.4	58.3	58.3	58.5
Closing stocks	Mt	4.3	4.3	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
Developing countries												
Production	Mt	161.3	170.0	172.3	174.2	176.5	178.4	180.6	182.6	184.4	186.2	188.1
Consumption	Mt	157.9	165.4	169.7	172.4	175.4	177.9	180.6	183.2	185.6	187.9	190.2
Closing stocks	Mt	13.6	14.6	14.9	15.0	15.2	15.5	15.9	16.2	16.5	16.7	17.0
OECD²												
Production	Mt	43.2	44.0	45.4	45.8	46.4	46.9	47.2	47.5	47.8	48.0	48.3
Consumption	Mt	57.6	60.2	60.5	60.7	60.7	60.7	60.7	60.7	60.6	60.6	60.8
Closing stocks	Mt	4.0	3.9	3.9	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0

Note: Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
WORLD												
SUGARBEET												
Production	Mt	271.3	278.4	279.4	279.3	279.8	280.2	280.6	281.3	282.3	283.2	284.3
Area	Mha	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Yield	t/ha	59.13	60.29	60.39	60.46	60.58	60.74	60.89	61.05	61.19	61.33	61.47
Biofuel use	Mt	10.0	10.1	10.1	10.2	10.3	10.3	10.5	10.5	10.6	10.6	10.7
SUGARCANE												
Production	Mt	1 757.1	1 773.1	1 802.9	1 823.7	1 837.7	1 847.4	1 860.4	1 875.9	1 892.4	1 909.2	1 924.5
Area	Mha	24.3	24.3	24.5	24.7	24.8	24.8	24.9	25.0	25.1	25.3	25.4
Yield	t/ha	72.21	73.11	73.46	73.82	74.20	74.47	74.72	74.99	75.25	75.51	75.74
Biofuel use	Mt	379.5	380.0	383.5	391.7	395.9	402.2	408.3	415.5	422.6	430.1	438.1
SUGAR												
Production	Mt tq	170.0	173.8	177.0	179.0	180.4	181.4	183.0	184.7	186.6	188.4	190.1
Consumption	Mt tq	169.8	173.1	174.7	176.4	178.1	179.7	181.3	183.0	184.6	186.2	187.8
Closing stocks	Mt tq	87.3	83.6	84.1	84.9	85.4	85.3	85.2	85.1	85.2	85.6	86.1
Price, raw sugar ¹	USD/t	353.8	421.8	355.6	326.8	318.0	316.4	321.7	326.7	331.6	336.3	341.0
Price, white sugar ²	USD/t	435.5	501.3	435.9	407.5	400.3	398.1	405.2	410.8	416.5	422.4	427.8
Price, HFCS ³	USD/t	906.2	851.4	740.5	694.4	682.8	679.6	689.4	697.8	706.6	714.7	721.1
DEVELOPED COUNTRIES												
SUGARBEET												
Production	Mt	219.7	225.6	225.1	224.9	225.5	225.9	226.3	226.7	227.5	227.9	228.6
SUGARCANE												
Production	Mt	82.1	85.0	85.8	85.6	85.5	86.2	86.6	87.1	87.6	88.1	88.5
SUGAR												
Production	Mt tq	39.0	40.2	40.5	40.4	40.6	40.7	40.8	41.0	41.1	41.3	41.4
Consumption	Mt tq	46.1	45.7	45.6	45.6	45.5	45.5	45.4	45.4	45.4	45.4	45.3
Closing stocks	Mt tq	14.2	14.2	14.6	15.0	15.1	14.8	14.5	14.2	14.1	14.0	13.9
HFCS												
Production	Mt dw	8.7	8.5	8.4	8.4	8.4	8.3	8.3	8.3	8.2	8.2	8.2
Consumption	Mt dw	7.6	7.5	7.5	7.4	7.4	7.3	7.2	7.2	7.1	7.1	7.1
DEVELOPING COUNTRIES												
SUGARBEET												
Production	Mt	51.7	52.8	54.3	54.3	54.2	54.3	54.3	54.5	54.9	55.3	55.7
SUGARCANE												
Production	Mt	1 675.1	1 688.0	1 717.1	1 738.1	1 752.2	1 761.2	1 773.8	1 788.8	1 804.9	1 821.2	1 836.0
SUGAR												
Production	Mt tq	130.9	133.6	136.5	138.6	139.8	140.7	142.2	143.8	145.5	147.1	148.6
Consumption	Mt tq	123.7	127.4	129.1	130.8	132.5	134.2	135.9	137.6	139.2	140.8	142.4
Closing stocks	Mt tq	73.1	69.4	69.5	69.9	70.4	70.6	70.7	70.8	71.2	71.7	72.2
HFCS												
Production	Mt dw	4.9	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.2	6.3
Consumption	Mt dw	5.6	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.9	7.0	7.2
OECD⁴												
SUGARBEET												
Production	Mt	171.5	178.8	178.8	178.2	177.9	178.1	178.2	178.2	178.6	178.8	179.4
SUGARCANE												
Production	Mt	146.1	153.9	155.1	153.5	152.8	153.1	153.0	153.1	153.2	153.6	153.8
SUGAR												
Production	Mt tq	39.4	41.2	41.5	41.3	41.4	41.5	41.5	41.6	41.7	41.9	42.0
Consumption	Mt tq	45.4	45.6	45.5	45.5	45.4	45.4	45.4	45.5	45.5	45.5	45.5
Closing stocks	Mt tq	14.4	14.0	13.9	14.2	14.3	14.2	14.2	14.1	14.0	13.9	13.9
HFCS												
Production	Mt dw	9.4	9.3	9.3	9.2	9.2	9.1	9.1	9.1	9.0	9.0	9.0
Consumption	Mt dw	9.1	9.0	9.0	8.9	8.9	8.8	8.8	8.7	8.7	8.7	8.7

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
WORLD												
BEEF AND VEAL												
Production	kt cwe	70 556	72 217	72 937	73 339	73 784	74 220	74 690	75 139	75 539	75 956	76 384
Consumption	kt cwe	70 684	72 234	72 939	73 342	73 776	74 216	74 688	75 141	75 542	75 958	76 386
PIGMEAT												
Production	kt cwe	110 613	120 822	123 512	124 026	124 758	125 380	125 992	126 713	127 441	128 185	128 895
Consumption	kt cwe	110 471	120 819	123 440	124 024	124 757	125 378	125 988	126 710	127 435	128 184	128 893
POULTRY MEAT												
Production	kt rtc	132 476	135 929	137 777	139 715	141 848	143 808	145 748	147 725	149 733	151 788	153 850
Consumption	kt rtc	130 832	135 959	137 714	139 637	141 821	143 808	145 757	147 723	149 743	151 784	153 846
SHEEP MEAT												
Production	kt cwe	15 640	16 201	16 455	16 670	16 877	17 086	17 295	17 499	17 697	17 893	18 076
Consumption	kt cwe	15 695	16 209	16 463	16 678	16 884	17 093	17 302	17 505	17 704	17 899	18 081
TOTAL MEAT												
Per capita consumption ¹	kg rwt	34.1	35.2	35.4	35.4	35.5	35.5	35.5	35.5	35.5	35.6	35.6
DEVELOPED COUNTRIES												
BEEF AND VEAL												
Production	kt cwe	31 108	31 160	31 428	31 493	31 567	31 632	31 700	31 767	31 817	31 894	31 969
Consumption	kt cwe	30 033	30 063	30 071	30 022	30 050	30 074	30 100	30 125	30 122	30 145	30 163
PIGMEAT												
Production	kt cwe	47 338	47 819	47 642	47 080	46 945	46 969	47 034	47 125	47 202	47 285	47 343
Consumption	kt cwe	41 216	41 842	41 993	41 979	42 068	42 232	42 394	42 554	42 683	42 821	42 902
POULTRY MEAT												
Production	kt rtc	52 469	52 811	53 148	53 387	53 737	54 033	54 373	54 729	55 048	55 419	55 810
Consumption	kt rtc	49 184	50 073	50 460	50 806	51 271	51 587	51 885	52 176	52 483	52 801	53 140
SHEEP MEAT												
Production	kt cwe	3 417	3 467	3 486	3 508	3 533	3 557	3 580	3 603	3 625	3 646	3 666
Consumption	kt cwe	2 709	2 742	2 750	2 762	2 776	2 789	2 800	2 810	2 819	2 828	2 836
TOTAL MEAT												
Per capita consumption ¹	kg rwt	69.0	69.5	69.6	69.7	69.9	70.0	70.2	70.4	70.5	70.7	70.8
DEVELOPING COUNTRIES												
BEEF AND VEAL												
Production	kt cwe	39 449	41 057	41 509	41 846	42 217	42 587	42 990	43 372	43 722	44 062	44 415
Consumption	kt cwe	40 652	42 171	42 868	43 320	43 726	44 142	44 587	45 016	45 420	45 813	46 223
PIGMEAT												
Production	kt cwe	63 274	73 003	75 870	76 946	77 812	78 411	78 957	79 588	80 239	80 901	81 552
Consumption	kt cwe	69 256	78 977	81 447	82 045	82 689	83 146	83 594	84 156	84 752	85 363	85 991
POULTRY MEAT												
Production	kt rtc	80 006	83 118	84 629	86 329	88 111	89 774	91 375	92 996	94 685	96 369	98 040
Consumption	kt rtc	81 648	85 886	87 253	88 831	90 550	92 221	93 872	95 547	97 260	98 983	100 706
SHEEP MEAT												
Production	kt cwe	12 222	12 734	12 970	13 162	13 344	13 529	13 715	13 896	14 073	14 247	14 410
Consumption	kt cwe	12 986	13 467	13 713	13 915	14 109	14 304	14 503	14 695	14 885	15 071	15 245
TOTAL MEAT												
Per capita consumption ¹	kg rwt	26.2	27.6	27.9	27.9	28.0	28.0	28.1	28.1	28.2	28.3	28.3
OECD²												
BEEF AND VEAL												
Production	kt cwe	29 879	29 850	30 113	30 186	30 255	30 302	30 346	30 390	30 420	30 475	30 527
Consumption	kt cwe	29 055	29 108	29 080	29 052	29 089	29 128	29 167	29 205	29 215	29 252	29 283
PIGMEAT												
Production	kt cwe	45 191	45 516	45 350	44 783	44 624	44 643	44 703	44 788	44 860	44 937	44 990
Consumption	kt cwe	40 331	40 861	41 062	41 068	41 146	41 318	41 488	41 658	41 798	41 944	42 033
POULTRY MEAT												
Production	kt rtc	52 976	53 505	53 906	54 287	54 735	55 106	55 505	55 922	56 318	56 773	57 253
Consumption	kt rtc	49 658	50 935	51 343	51 748	52 265	52 641	53 008	53 364	53 734	54 114	54 512
SHEEP MEAT												
Production	kt cwe	2 442	2 498	2 513	2 526	2 538	2 552	2 565	2 577	2 589	2 600	2 610
Consumption	kt cwe	1 772	1 802	1 805	1 807	1 809	1 812	1 814	1 815	1 814	1 814	1 812
TOTAL MEAT												
Per capita consumption ¹	kg rwt	69.5	70.2	70.3	70.4	70.6	70.7	70.9	71.0	71.2	71.3	71.4

Note: Calendar Year; except year ending 30 June for New Zealand in aggregates. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
MILK												
World												
Production	kt pw	875 831	901 646	918 613	935 098	951 740	969 355	987 286	1 005 753	1 023 705	1 042 056	1 059 850
Inventory	000 hd	712 574	734 765	747 912	756 708	761 987	770 920	781 382	791 304	800 911	810 128	819 059
Yield	t/head	1.23	1.23	1.23	1.24	1.25	1.26	1.26	1.27	1.28	1.29	1.29
Developed countries												
Production	kt pw	407 063	410 437	412 515	414 750	417 472	420 574	423 760	427 495	430 658	434 175	437 198
Inventory	000 hd	74 309	74 313	74 312	74 091	73 853	73 808	73 854	73 898	73 923	73 938	73 891
Yield	t/head	5.48	5.52	5.55	5.60	5.65	5.70	5.74	5.78	5.83	5.87	5.92
Developing countries												
Production	kt pw	468 768	491 209	506 098	520 348	534 268	548 781	563 527	578 258	593 046	607 881	622 652
Inventory	000 hd	638 264	660 452	673 599	682 617	688 135	697 111	707 528	717 406	726 988	736 189	745 169
Yield	t/head	0.73	0.74	0.75	0.76	0.78	0.79	0.80	0.81	0.82	0.83	0.84
OECD¹												
Production	kt pw	372 429	376 698	379 253	381 780	384 169	386 935	389 835	393 361	396 321	399 680	402 513
Inventory	000 hd	80 608	81 801	82 271	82 158	81 883	81 910	82 142	82 408	82 702	83 032	83 365
Yield	t/head	4.62	4.61	4.61	4.65	4.69	4.72	4.75	4.77	4.79	4.81	4.83
FRESH DAIRY PRODUCTS												
World												
Consumption	kt pw	438 137	453 492	465 967	477 778	488 813	499 803	511 274	522 557	533 865	545 125	555 998
Developed countries												
Consumption	kt pw	132 552	132 733	133 804	134 764	135 591	136 240	137 115	137 925	138 781	139 539	140 010
Developing countries												
Consumption	kt pw	305 585	320 759	332 163	343 015	353 222	363 563	374 159	384 632	395 084	405 586	415 987
OECD¹												
Consumption	kt pw	105 337	105 649	106 360	106 971	107 541	107 914	108 445	108 977	109 542	110 048	110 256
BUTTER												
World												
Production	kt pw	12 318	12 715	12 977	13 223	13 472	13 739	14 000	14 255	14 519	14 780	15 043
Consumption	kt pw	12 262	12 727	12 971	13 223	13 473	13 739	13 998	14 253	14 517	14 778	15 041
Stock changes	kt pw	23	-11	7	-1	-1	1	2	3	2	3	3
Price ²	USD/t	4 495	4 834	4 545	4 413	4 395	4 439	4 533	4 584	4 691	4 764	4 843
Developed countries												
Production	kt pw	4 877	4 832	4 879	4 889	4 922	4 955	4 987	5 013	5 043	5 071	5 099
Consumption	kt pw	4 345	4 379	4 397	4 400	4 409	4 425	4 441	4 457	4 479	4 497	4 516
Developing countries												
Production	kt pw	7 441	7 883	8 098	8 334	8 550	8 784	9 014	9 242	9 476	9 709	9 945
Consumption	kt pw	7 917	8 348	8 574	8 824	9 064	9 314	9 557	9 796	10 037	10 280	10 525
OECD¹												
Production	kt pw	4 782	4 748	4 814	4 834	4 867	4 900	4 937	4 969	5 005	5 039	5 071
Consumption	kt pw	4 233	4 279	4 314	4 335	4 347	4 365	4 384	4 403	4 429	4 450	4 472
Stock changes	kt pw	25	-11	7	-1	-1	1	2	3	2	3	3
CHEESE												
World												
Production	kt pw	24 823	25 507	25 841	26 143	26 424	26 703	26 997	27 303	27 595	27 897	28 164
Consumption	kt pw	24 774	25 500	25 824	26 119	26 402	26 678	26 971	27 271	27 570	27 870	28 136
Stock changes	kt pw	13	6	16	24	22	26	27	33	25	27	28
Price ³	USD/t	4 096	4 300	4 260	4 235	4 247	4 297	4 364	4 426	4 504	4 572	4 636
Developed countries												
Production	kt pw	20 407	20 945	21 178	21 401	21 610	21 816	22 037	22 273	22 496	22 728	22 926
Consumption	kt pw	19 364	19 806	19 976	20 137	20 304	20 468	20 652	20 844	21 037	21 228	21 393
Developing countries												
Production	kt pw	4 416	4 562	4 663	4 742	4 814	4 887	4 961	5 030	5 100	5 169	5 238
Consumption	kt pw	5 409	5 694	5 849	5 982	6 098	6 209	6 318	6 427	6 534	6 642	6 743
OECD¹												
Production	kt pw	19 858	20 376	20 601	20 817	21 017	21 211	21 423	21 652	21 868	22 093	22 286
Consumption	kt pw	18 973	19 431	19 620	19 801	19 964	20 124	20 305	20 491	20 679	20 864	21 023
Stock changes	kt pw	13	6	16	24	22	26	27	33	25	27	28

Note: Calendar Year; except year ending 30 June for New Zealand in aggregates. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
SKIM MILK POWDER												
World												
Production	kt pw	4 527	4 610	4 674	4 877	4 960	5 037	5 120	5 199	5 272	5 351	5 426
Consumption	kt pw	4 576	4 609	4 675	4 877	4 960	5 036	5 119	5 200	5 273	5 351	5 426
Stock changes	kt pw	-79	0	-1	-1	0	0	0	0	0	0	0
Price ¹	USD/t	2 925	3 219	3 270	3 233	3 208	3 230	3 270	3 330	3 397	3 459	3 518
Developed countries												
Production	kt pw	3 854	3 907	3 950	4 120	4 178	4 235	4 293	4 348	4 400	4 455	4 508
Consumption	kt pw	1 734	1 669	1 662	1 775	1 783	1 790	1 801	1 810	1 818	1 826	1 830
Developing countries												
Production	kt pw	673	702	724	757	782	802	827	852	872	896	918
Consumption	kt pw	2 841	2 940	3 014	3 103	3 177	3 246	3 318	3 390	3 455	3 525	3 596
OECD²												
Production	kt pw	3 640	3 715	3 769	3 947	4 011	4 070	4 132	4 189	4 243	4 300	4 354
Consumption	kt pw	1 888	1 837	1 833	1 949	1 962	1 975	1 990	2 004	2 016	2 029	2 038
Stock changes	kt pw	-79	0	-1	-1	0	0	0	0	0	0	0
WHOLE MILK POWDER												
World												
Production	kt pw	5 272	5 349	5 431	5 512	5 605	5 692	5 765	5 851	5 935	6 020	6 108
Consumption	kt pw	5 323	5 345	5 429	5 513	5 605	5 693	5 766	5 851	5 936	6 021	6 109
Stock changes	kt pw	7	3	2	-1	-1	-1	-1	-1	-1	-1	-1
Price ³	USD/t	3 308	3 647	3 647	3 591	3 580	3 613	3 658	3 729	3 808	3 882	3 956
Developed countries												
Production	kt pw	2 652	2 654	2 710	2 764	2 795	2 825	2 845	2 868	2 893	2 917	2 943
Consumption	kt pw	744	688	693	705	712	720	707	714	722	729	739
Developing countries												
Production	kt pw	2 620	2 695	2 721	2 748	2 810	2 868	2 920	2 983	3 043	3 103	3 165
Consumption	kt pw	4 579	4 658	4 736	4 808	4 894	4 973	5 059	5 137	5 215	5 292	5 369
OECD²												
Production	kt pw	2 835	2 841	2 900	2 956	2 986	3 015	3 035	3 057	3 081	3 104	3 130
Consumption	kt pw	980	942	961	989	999	1 009	999	1 010	1 020	1 030	1 044
Stock changes	kt pw	7	3	2	-1	-1	-1	-1	-1	-1	-1	-1
WHEY POWDER												
Price ⁴	USD/t	1 006	1 061	1 053	1 032	1 023	1 031	1 043	1 060	1 077	1 095	1 113
CASEIN												
Price ⁵	USD/t	7 426	8 253	8 340	8 206	8 134	8 201	8 297	8 437	8 581	8 727	8 871

Note: Calendar Year; except year ending 30 June for New Zealand in aggregates. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.7. World fish and seafood projections

Calendar year

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
FISH¹												
World												
Production	kt	178 900	183 046	186 400	187 440	190 940	193 198	195 304	195 821	199 653	201 646	203 403
of which aquaculture	kt	87 389	90 777	93 241	95 111	96 892	98 702	100 665	102 718	104 498	106 119	107 659
Consumption	kt	179 726	182 421	186 329	187 546	190 930	193 192	195 302	195 933	199 648	201 646	203 407
of which for food	kt	158 897	161 484	165 396	167 841	170 275	172 613	174 769	176 801	179 256	181 296	183 136
of which for reduction	kt	15 959	16 313	16 425	15 313	16 378	16 394	16 430	15 109	16 452	16 491	16 492
Price												
Aquaculture ²	USD/t	3 026.0	3 740.8	3 407.6	3 490.3	3 481.9	3 577.0	3 689.3	3 932.5	3 829.7	3 919.9	4 012.7
Capture ³	USD/t	1 881.7	2 216.4	2 072.7	2 099.9	2 082.4	2 112.4	2 153.5	2 254.0	2 197.1	2 221.7	2 248.4
Product traded ⁴	USD/t	3 095.5	3 947.9	3 570.0	3 624.7	3 580.5	3 649.7	3 745.2	3 984.9	3 840.4	3 897.7	3 960.1
Developed countries												
Production	kt	28 909	28 864	29 192	29 671	29 656	29 895	29 907	30 232	30 284	30 404	30 473
of which aquaculture	kt	4 894	4 980	5 048	5 157	5 209	5 277	5 351	5 426	5 519	5 573	5 616
Consumption	kt	36 798	36 509	36 715	36 891	36 810	36 936	37 007	37 194	37 037	37 043	37 019
of which for food	kt	31 262	31 155	31 350	31 536	31 510	31 656	31 735	31 926	31 781	31 795	31 781
of which for reduction	kt	4 589	4 392	4 415	4 417	4 374	4 367	4 371	4 379	4 379	4 383	4 385
Developing countries												
Production	kt	149 991	154 182	157 209	157 769	161 284	163 303	165 397	165 589	169 369	171 242	172 930
of which aquaculture	kt	82 495	85 798	88 193	89 954	91 683	93 426	95 313	97 292	98 979	100 546	102 042
Consumption	kt	142 964	145 987	149 684	150 719	154 180	156 310	158 345	158 783	162 651	164 638	166 418
of which for food	kt	127 671	130 404	134 116	136 369	138 826	141 012	143 084	144 921	147 514	149 536	151 385
of which for reduction	kt	11 371	11 921	12 010	10 896	12 004	12 027	12 059	10 730	12 073	12 107	12 107
OECD⁵												
Production	kt	28 653	29 153	29 269	29 235	29 544	29 876	29 892	29 709	30 128	30 351	30 470
of which aquaculture	kt	7 198	7 361	7 459	7 639	7 767	7 892	8 027	8 177	8 323	8 452	8 566
Consumption	kt	38 419	38 412	39 001	38 958	39 076	39 241	39 323	39 279	39 297	39 369	39 392
of which for food	kt	32 179	32 304	32 923	33 132	33 116	33 310	33 426	33 664	33 490	33 586	33 647
of which for reduction	kt	5 058	4 964	4 952	4 717	4 868	4 856	4 839	4 574	4 784	4 778	4 757
FISHMEAL⁶												
World												
Production	kt	4 931.0	4 974.2	5 131.0	4 947.7	5 275.0	5 334.4	5 395.7	5 114.6	5 499.3	5 553.5	5 599.7
from whole fish	kt	3 516.8	3 553.8	3 685.5	3 475.5	3 773.7	3 807.5	3 845.5	3 543.8	3 904.5	3 936.5	3 960.6
Consumption	kt	4 997.4	5 001.8	5 122.7	5 081.8	5 183.2	5 286.8	5 401.3	5 252.2	5 410.4	5 495.2	5 595.6
Variation in stocks	kt	-75.2	-26.6	8.8	-134.1	91.4	46.5	-7.1	-139.6	86.3	55.3	0.6
Price ⁷	USD/t	1 453.1	1 558.3	1 484.4	1 548.6	1 381.1	1 415.5	1 502.2	1 611.9	1 546.7	1 585.5	1 625.6
Developed countries												
Production	kt	1 558.7	1 472.9	1 523.4	1 555.6	1 563.5	1 579.1	1 597.3	1 616.5	1 627.0	1 638.5	1 649.3
from whole fish	kt	983.6	901.1	943.5	968.1	968.3	976.4	987.1	998.7	1 001.5	1 005.6	1 009.0
Consumption	kt	1 611.4	1 516.2	1 528.8	1 480.8	1 496.3	1 493.7	1 490.2	1 431.3	1 456.7	1 454.5	1 453.3
Variation in stocks	kt	21.5	-17.6	7.8	-26.1	30.9	3.0	-8.1	-32.6	24.8	10.8	-0.4
Developing countries												
Production	kt	3 372.3	3 501.2	3 607.6	3 392.2	3 711.5	3 755.2	3 798.4	3 498.1	3 872.3	3 915.0	3 950.4
from whole fish	kt	2 533.2	2 652.7	2 742.0	2 507.3	2 805.4	2 831.1	2 858.4	2 545.1	2 903.0	2 930.9	2 951.6
Consumption	kt	3 584.2	3 785.6	3 883.9	3 881.0	3 956.9	4 053.1	4 161.1	4 060.9	4 183.8	4 260.6	4 352.4
Variation in stocks	kt	-96.7	-9.0	1.0	-108.0	60.5	43.5	1.0	-107.0	61.5	44.5	1.0
OECD⁵												
Production	kt	1 515.0	1 457.9	1 508.9	1 483.5	1 534.6	1 546.2	1 556.5	1 511.1	1 568.7	1 576.8	1 581.7
from whole fish	kt	1 054.0	1 004.4	1 047.9	1 015.2	1 058.9	1 063.5	1 066.7	1 014.1	1 064.4	1 065.5	1 063.4
Consumption	kt	1 715.6	1 652.4	1 676.5	1 621.3	1 624.6	1 614.0	1 604.3	1 539.1	1 563.5	1 564.3	1 566.2
Variation in stocks	kt	-11.9	-18.6	6.8	-27.1	34.9	-3.0	-8.1	-32.6	29.8	5.8	-0.4

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

Calendar year

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
FISH OIL⁶												
World												
Production	kt	1 091.8	1 169.1	1 214.3	1 187.7	1 244.0	1 260.7	1 270.7	1 227.5	1 299.2	1 308.0	1 315.8
from whole fish	kt	567.4	609.4	646.1	605.2	661.7	668.8	676.5	619.3	690.0	693.2	695.3
Consumption	kt	1 120.7	1 181.9	1 216.7	1 216.3	1 220.7	1 255.9	1 271.9	1 259.2	1 275.6	1 301.6	1 316.0
Variation in stocks	kt	-27.6	-2.8	2.6	-28.6	23.3	4.8	-1.2	-31.7	23.7	6.3	-0.1
Price ⁸	USD/t	1 910.3	2 312.5	2 028.6	1 922.0	1 738.8	1 744.1	1 773.3	2 108.8	1 979.2	2 033.1	2 088.2
Developed countries												
Production	kt	439.1	435.8	454.7	466.7	462.7	469.0	468.4	479.7	477.6	480.2	483.1
from whole fish	kt	167.7	158.2	172.2	173.5	173.2	173.2	173.4	173.7	173.8	174.0	174.2
Consumption	kt	581.9	650.3	662.1	662.3	645.7	672.4	687.6	721.0	712.3	731.7	742.9
Variation in stocks	kt	-2.1	-2.8	2.6	-10.6	7.3	2.8	-1.2	-13.7	7.7	4.3	-0.1
Developing countries												
Production	kt	653.0	733.3	759.6	721.0	781.4	791.7	802.3	747.8	821.6	827.7	832.7
from whole fish	kt	400.1	451.2	473.9	431.8	488.4	495.7	503.1	445.6	516.3	519.2	521.1
Consumption	kt	479.9	481.6	509.6	514.0	540.0	553.5	559.3	518.2	548.3	559.9	568.0
Variation in stocks	kt	-25.5	0.0	0.0	-18.0	16.0	2.0	0.0	-18.0	16.0	2.0	0.0
OECD⁵												
Production	kt	593.8	613.0	636.8	639.3	643.1	649.2	647.8	647.5	654.6	656.9	658.9
from whole fish	kt	199.0	188.4	206.2	197.1	203.6	202.9	201.8	190.1	198.7	198.1	197.0
Consumption	kt	770.6	797.9	827.5	826.2	825.8	854.9	867.4	857.6	868.0	889.6	901.6
Variation in stocks	kt	-3.4	-2.3	2.6	-15.6	12.3	2.8	-1.2	-18.7	12.7	4.3	-0.1

Note: The term "fish" indicates fish, crustaceans, molluscs and other aquatic animals, but excludes aquatic mammals, crocodiles, caimans, alligators and aquatic plants. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.8. World biofuel projections

Calendar year

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ETHANOL												
World												
Production	Bln L	124.7	129.1	129.2	130.5	131.7	133.1	134.5	135.8	137.2	138.8	140.4
Consumption	Bln L	126.1	130.5	130.5	131.6	132.6	133.9	135.2	136.5	137.9	139.4	141.0
Exports	Bln L	10.3	10.5	10.6	10.6	10.5	10.5	10.5	10.5	10.5	10.4	10.4
Price ¹	USD/hl	47.6	66.9	49.2	49.9	51.1	51.0	51.6	52.2	52.8	52.8	53.5
Developed countries												
Production	bln L	68.6	71.5	71.0	71.0	71.3	71.6	72.0	72.1	72.3	72.5	72.8
Consumption	bln L	68.5	70.9	70.2	70.0	70.0	70.3	70.5	70.7	70.9	71.1	71.3
Net trade	bln L	0.2	0.8	0.9	0.9	1.1	1.1	1.0	1.0	1.0	0.9	0.9
Developing countries												
Production	bln L	56.1	57.6	58.3	59.6	60.4	61.5	62.5	63.7	64.9	66.2	67.7
Consumption	bln L	57.6	59.6	60.3	61.5	62.6	63.7	64.6	65.8	67.0	68.3	69.7
Net trade	bln L	-1.4	-2.0	-2.1	-2.0	-2.2	-2.2	-2.2	-2.1	-2.1	-2.1	-2.1
OECD²												
Production	bln L	68.3	71.5	70.9	70.9	71.3	71.6	71.9	72.1	72.3	72.5	72.7
Consumption	bln L	69.7	73.5	72.7	72.5	72.4	72.6	72.8	73.0	73.1	73.3	73.4
Net trade	bln L	-1.3	-1.8	-1.6	-1.6	-1.4	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3
BIODIESEL												
World												
Production	bln L	48.4	55.3	55.2	55.6	55.5	55.3	55.1	55.2	55.1	55.2	55.4
Consumption	bln L	52.2	55.9	55.8	56.2	56.1	55.9	55.8	55.8	55.7	55.8	56.0
Exports	bln L	6.6	6.1	6.3	6.3	6.3	6.2	6.0	5.9	5.8	5.8	5.8
Price ³	USD/hl	105.9	125.2	109.0	108.0	108.8	109.9	111.1	112.7	113.7	114.8	116.0
Developed countries												
Production	bln L	24.8	28.6	28.1	28.0	27.7	27.3	27.0	26.8	26.4	26.1	25.9
Consumption	bln L	31.6	32.8	32.3	32.2	31.7	31.2	30.7	30.3	29.8	29.4	29.2
Net trade	bln L	-4.6	-4.2	-4.2	-4.1	-4.0	-3.9	-3.7	-3.5	-3.4	-3.3	-3.2
Developing countries												
Production	bln L	23.6	26.7	27.1	27.5	27.8	28.0	28.2	28.4	28.7	29.1	29.5
Consumption	bln L	20.6	23.1	23.6	24.0	24.4	24.7	25.1	25.5	26.0	26.4	26.8
Net trade	bln L	3.4	3.6	3.6	3.5	3.4	3.3	3.1	2.9	2.8	2.7	2.6
OECD²												
Production	bln L	26.1	30.0	29.4	29.4	29.1	28.7	28.4	28.2	27.8	27.6	27.4
Consumption	bln L	32.9	34.2	33.6	33.5	33.1	32.6	32.1	31.7	31.2	30.8	30.6
Net trade	bln L	-4.6	-4.2	-4.2	-4.1	-4.0	-3.9	-3.7	-3.5	-3.4	-3.2	-3.2

Note: Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.9. World cotton projections

Marketing year

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
WORLD												
Production	Mt	26.2	26.6	26.9	27.4	27.9	28.3	28.7	29.2	29.6	30.1	30.6
Area	Mha	33.1	33.0	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.8	33.9
Yield	t/ha	0.79	0.80	0.81	0.82	0.83	0.84	0.86	0.87	0.88	0.89	0.90
Consumption ¹	Mt	25.5	26.1	26.7	27.3	27.8	28.2	28.6	29.0	29.4	29.9	30.3
Exports	Mt	9.7	10.1	10.4	10.7	11.0	11.2	11.5	11.7	11.9	12.2	12.4
Closing stocks	Mt	20.0	21.1	21.3	21.5	21.6	21.7	21.8	22.0	22.2	22.5	22.7
Price ²	USD/t	1 964.1	2 622.6	2 190.9	1 986.4	1 794.5	1 814.8	1 832.4	1 848.1	1 855.9	1 857.8	1 854.6
DEVELOPED COUNTRIES												
Production	Mt	6.1	6.4	6.4	6.3	6.3	6.4	6.5	6.6	6.7	6.8	6.9
Consumption	Mt	1.7	1.8	1.9	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.3
Exports	Mt	4.6	4.7	4.7	4.6	4.6	4.6	4.7	4.7	4.8	4.8	4.9
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	2.3	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.7
DEVELOPING COUNTRIES												
Production	Mt	20.1	20.2	20.6	21.1	21.5	21.9	22.2	22.6	22.9	23.3	23.6
Consumption	Mt	23.8	24.2	24.8	25.2	25.7	26.0	26.4	26.8	27.2	27.5	28.0
Exports	Mt	5.2	5.4	5.7	6.1	6.4	6.6	6.8	7.0	7.2	7.3	7.5
Imports	Mt	9.5	9.7	10.1	10.4	10.7	10.9	11.1	11.3	11.6	11.8	12.1
Closing stocks	Mt	17.7	18.7	18.9	19.0	19.0	19.1	19.3	19.4	19.6	19.9	20.1
OECD³												
Production	Mt	5.7	6.0	6.0	6.1	6.1	6.2	6.3	6.4	6.5	6.6	6.7
Consumption	Mt	2.8	3.0	3.0	3.1	3.2	3.2	3.3	3.3	3.4	3.4	3.5
Exports	Mt	4.4	4.5	4.5	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.9
Imports	Mt	1.6	1.7	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7
Closing stocks	Mt	3.0	3.3	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.5	3.6

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
REAL GDP¹												
Australia	%	1.1	4.2	2.5	2.3	2.3	2.5	2.5	2.5	2.5	2.5	2.5
Canada	%	0.5	3.9	2.8	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6
Chile	%	2.1	1.5	0.5	1.7	2.2	2.5	2.5	2.4	2.3	2.3	2.2
European Union	%	0.1	2.8	2.3	1.8	1.6	1.5	1.5	1.5	1.5	1.5	1.5
Japan	%	-0.9	2.4	2.3	0.8	0.7	0.5	0.5	0.5	0.5	0.5	0.5
Korea	%	1.8	2.5	2.9	2.6	2.5	2.4	2.4	2.4	2.4	2.4	2.4
Mexico	%	-0.9	2.0	2.5	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0
New Zealand	%	2.2	2.7	2.6	1.9	1.7	2.4	2.4	2.4	2.4	2.4	2.4
Norway	%	1.4	4.0	2.6	2.2	1.6	1.3	1.3	1.3	1.3	1.3	1.3
Switzerland	%	0.6	2.2	1.4	1.8	1.2	1.8	1.8	1.8	1.8	1.8	1.8
Türkiye	%	3.9	2.7	3.0	3.7	3.3	3.3	3.3	3.1	3.0	2.8	2.6
United Kingdom	%	-0.4	3.7	1.2	1.4	2.2	1.8	1.8	1.8	1.8	1.8	1.8
United States	%	1.5	3.7	2.3	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Brazil	%	0.7	0.8	1.4	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0
China	%	5.5	4.4	5.1	5.1	5.0	4.9	4.9	4.9	4.9	4.9	4.9
Egypt	%	4.2	5.9	5.0	5.5	5.8	5.8	5.9	5.6	5.3	5.0	4.8
India	%	2.1	8.2	6.9	7.0	7.0	6.5	6.2	5.8	5.5	5.2	4.9
Indonesia	%	2.0	5.4	6.0	5.8	5.4	5.3	5.2	4.9	4.7	4.5	4.3
Iran	%	-0.3	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Malaysia	%	0.8	5.6	5.5	4.9	4.4	4.4	3.9	3.8	3.7	3.5	3.4
Pakistan	%	1.9	4.0	4.2	4.6	4.8	5.0	5.0	4.8	4.5	4.3	4.2
Russia	%	1.1	-8.5	-2.3	1.5	1.0	0.8	0.8	0.8	0.8	0.8	0.8
Saudi Arabia	%	-0.3	7.6	3.6	2.7	2.7	2.7	2.8	2.7	2.6	2.5	2.5
South Africa	%	-0.4	1.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3
Ukraine	%	0.9	3.6	3.4	3.8	4.0	4.0	3.8	3.7	3.6	3.4	3.3
OECD ^{2,3}	%	0.8	3.2	2.3	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7
PCE DEFLATOR¹												
Australia	%	1.4	3.9	2.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Canada	%	1.6	5.6	2.4	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0
Chile	%	3.2	7.5	4.5	3.3	3.0	3.0	3.0	2.9	2.8	2.8	2.7
European Union	%	1.3	7.7	2.9	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Japan	%	0.1	1.0	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Korea	%	1.3	4.0	2.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Mexico	%	4.6	6.8	3.9	3.2	3.1	3.0	3.0	3.0	3.0	3.0	3.0
New Zealand	%	2.1	5.9	3.5	2.4	2.2	2.1	2.1	2.1	2.1	2.1	2.1
Norway	%	2.2	3.5	1.8	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Switzerland	%	-0.1	2.5	1.6	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Türkiye	%	14.8	60.5	37.2	20.4	16.0	15.1	15.0	17.1	13.4	9.7	6.1
United Kingdom	%	1.9	7.4	5.3	2.6	1.9	2.0	2.0	2.0	2.0	2.0	2.0
United States	%	2.2	7.7	2.9	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Brazil	%	5.3	8.2	5.1	3.3	3.3	2.8	2.8	2.8	2.8	2.8	2.8
China	%	2.0	2.1	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Egypt	%	8.0	7.5	11.0	7.4	7.4	7.4	7.4	6.9	6.4	6.1	5.7
India	%	5.5	6.1	4.8	4.3	4.1	4.0	4.0	3.8	3.7	3.6	3.4
Indonesia	%	2.1	3.3	3.3	3.0	2.9	2.9	2.9	2.8	2.8	2.7	2.6
Iran	%	2.2	6.3	3.0	2.5	2.1	2.0	2.0	2.0	2.0	2.0	2.0
Malaysia	%	0.7	3.0	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.3	2.2
Pakistan	%	8.8	11.2	10.5	7.4	6.5	6.5	6.5	6.1	5.8	5.4	5.2
Russia	%	4.8	21.3	14.3	9.0	6.0	4.0	4.0	4.0	4.0	4.0	4.0
Saudi Arabia	%	1.5	2.5	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9
South Africa	%	3.9	5.7	4.6	4.5	4.5	4.5	4.5	4.3	4.1	4.0	3.8
Ukraine	%	6.7	7.1	5.8	5.2	5.0	5.0	4.7	4.5	4.3	4.2	4.0
OECD ^{2,3}	%	2.8	11.9	7.7	5.5	4.8	4.9	5.2	6.1	5.4	4.5	3.4

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Table C.10. Economic assumptions (cont.)

Calendar year

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
GDP DEFLATOR¹												
Australia	%	3.2	5.3	0.1	1.9	2.4	2.3	2.3	2.3	2.3	2.3	2.3
Canada	%	3.3	8.0	1.4	1.3	1.8	1.9	1.9	1.9	1.9	1.9	1.9
Chile	%	6.2	5.9	4.9	3.1	2.8	2.6	2.7	2.7	2.6	2.5	2.5
European Union	%	1.7	6.3	3.0	2.5	2.1	2.0	2.0	2.0	2.0	2.0	2.0
Japan	%	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Korea	%	0.8	2.7	2.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9
Mexico	%	4.4	4.6	3.6	3.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5
New Zealand	%	2.7	4.9	4.1	3.4	3.0	2.8	2.8	2.8	2.8	2.8	2.8
Norway	%	3.7	11.3	-2.1	-0.8	-0.2	0.5	0.5	0.5	0.5	0.5	0.5
Switzerland	%	0.2	2.0	1.3	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Türkiye	%	16.4	54.3	39.9	21.5	15.6	14.4	15.5	17.6	13.8	10.0	6.2
United Kingdom	%	2.9	4.8	5.1	2.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1
United States	%	2.3	6.3	3.0	2.5	2.1	2.0	2.0	2.0	2.0	2.0	2.0
Brazil	%	7.0	8.2	5.4	3.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7
China	%	1.9	3.5	3.3	2.4	2.1	2.0	2.0	2.0	2.0	2.0	2.0
Egypt	%	7.8	8.3	11.2	7.7	7.5	7.5	7.6	7.0	6.6	6.2	5.8
India	%	4.0	4.9	5.5	4.6	4.4	4.2	4.2	4.0	3.9	3.7	3.6
Indonesia	%	1.5	3.6	3.3	3.0	2.9	2.9	2.9	2.8	2.8	2.7	2.6
Iran	%	2.2	6.3	3.0	2.5	2.1	2.0	2.0	2.0	2.0	2.0	2.0
Malaysia	%	0.7	4.0	2.5	2.2	2.7	2.5	2.6	2.6	2.5	2.4	2.4
Pakistan	%	9.3	11.5	11.3	7.3	5.7	6.4	6.4	6.0	5.7	5.4	5.1
Russia	%	5.3	25.1	8.9	6.9	5.5	3.3	3.3	3.3	3.3	3.3	3.3
Saudi Arabia	%	3.2	16.0	-5.2	-2.2	-0.9	-0.1	0.5	0.5	0.5	0.5	0.5
South Africa	%	5.3	3.8	3.2	4.3	4.5	4.6	4.6	4.4	4.2	4.0	3.9
Ukraine	%	11.0	8.2	6.7	5.6	5.3	5.0	4.8	4.5	4.3	4.2	4.0
OECD ³	%	3.3	10.3	7.9	5.7	4.8	4.8	5.3	6.2	5.5	4.6	3.4
WORLD INPUT PRICES												
Brent crude oil ⁴	USD/barrel	58.9	100.0	84.8	85.4	85.9	86.4	87.0	87.5	88.1	88.6	89.2
Fertiliser ⁵	USD/t	95.6	138.4	96.2	98.5	98.7	97.7	95.2	94.9	95.2	95.7	96.3
EXCHANGE RATES												
Australia	AUD/USD	1.41	1.36	1.33	1.32	1.33	1.33	1.34	1.34	1.35	1.35	1.36
Canada	CAD/USD	1.31	1.26	1.23	1.21	1.20	1.20	1.19	1.18	1.17	1.17	1.16
Chile	CLP/USD	740.82	779.70	743.90	722.19	708.86	701.30	696.65	691.99	687.33	682.68	678.02
European Union	EUR/USD	0.87	0.88	0.87	0.86	0.85	0.85	0.84	0.83	0.83	0.82	0.81
Japan	JPY/USD	108.50	113.32	108.11	104.75	100.59	97.41	94.33	91.35	88.46	85.66	82.95
Korea	KRW/USD	1 163.33	1 200.69	1 195.68	1 190.22	1 186.81	1 185.39	1 183.97	1 182.56	1 181.14	1 179.73	1 178.32
Mexico	MXN/USD	20.25	21.04	21.41	21.61	21.83	22.06	22.29	22.52	22.75	22.98	23.22
New Zealand	NZD/USD	1.49	1.46	1.45	1.45	1.46	1.47	1.48	1.48	1.49	1.50	1.51
Brazil	BRL/USD	4.83	5.16	5.10	5.04	5.04	5.06	5.07	5.09	5.10	5.11	5.13
China	CNY/USD	6.76	6.11	6.04	6.02	6.01	6.00	6.00	5.99	5.99	5.98	5.97
Egypt	EGP/USD	16.49	16.74	18.92	19.79	20.53	21.40	22.34	23.29	24.23	25.17	26.11
India	INR/USD	73.79	79.91	82.76	85.29	87.70	90.10	92.58	95.07	97.56	100.05	102.54
Indonesia	'000 IDR/USD	14.34	14.37	14.39	14.56	14.73	14.89	15.06	15.23	15.40	15.56	15.73
Malaysia	MYR/USD	4.14	3.79	3.73	3.72	3.72	3.72	3.73	3.73	3.73	3.74	3.74
Pakistan	PKR/USD	119.68	134.35	145.19	152.07	157.45	164.33	171.49	178.30	184.79	190.95	196.81
Russia	RUB/USD	70.13	81.50	92.62	100.23	105.29	108.17	111.14	114.19	117.32	120.53	123.84
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	15.24	15.36	15.31	15.49	15.78	16.14	16.84	17.54	18.24	18.94	19.64
Ukraine	UAH/USD	26.78	27.41	27.66	27.80	27.80	27.80	27.80	27.80	27.80	27.80	27.80
United Kingdom	GBP/USD	0.76	0.74	0.73	0.71	0.70	0.70	0.69	0.68	0.67	0.67	0.66

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Table C.10. Economic assumptions (cont.)

Calendar year

		2021est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
POPULATION¹												
Australia	%	1.1	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9
Canada	%	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7
Chile	%	0.5	0.2	0.0	-0.1	0.0	0.1	0.2	0.2	0.3	0.3	0.4
European Union	%	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Japan	%	-0.3	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.6
Korea	%	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1
Mexico	%	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7
New Zealand	%	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.6	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	0.7
Switzerland	%	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5
Türkiye	%	0.8	0.6	0.5	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6
United Kingdom	%	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
United States	%	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Argentina	%	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7
Brazil	%	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4
China	%	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0
Egypt	%	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.6	1.6	1.5	1.5
India	%	1.0	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.7
Indonesia	%	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.7
Iran	%	1.2	1.2	1.1	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.7
Malaysia	%	1.3	1.2	1.2	1.2	1.1	1.1	1.0	1.0	1.0	0.9	0.9
Pakistan	%	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.5
Russia	%	0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3
Saudi Arabia	%	1.5	1.4	1.4	1.3	1.2	1.2	1.1	1.1	1.0	1.0	1.0
South Africa	%	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9
Ukraine	%	-0.6	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7
OECD ³	%	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
World	%	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.8	0.8

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
PER CAPITA GDP in constant 2010 US dollars¹												
Australia	%	-0.1	3.0	1.4	1.2	1.3	1.5	1.5	1.5	1.5	1.6	1.6
Canada	%	-0.4	3.1	1.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Chile	%	1.2	1.3	0.5	1.7	2.2	2.4	2.3	2.2	2.0	2.0	1.8
European Union	%	-0.1	2.8	2.3	1.8	1.6	1.5	1.5	1.5	1.5	1.5	1.5
Japan	%	-0.6	2.8	2.7	1.2	1.1	0.9	1.0	1.0	1.0	1.0	1.0
Korea	%	1.7	2.5	2.9	2.6	2.5	2.4	2.4	2.4	2.5	2.5	2.5
Mexico	%	-1.9	1.0	1.5	0.9	1.0	1.1	1.2	1.2	1.2	1.2	1.3
New Zealand	%	1.3	1.9	1.9	1.2	0.9	1.7	1.7	1.8	1.8	1.8	1.8
Norway	%	0.6	3.1	1.7	1.4	0.8	0.5	0.5	0.5	0.5	0.5	0.5
Switzerland	%	-0.2	1.5	0.8	1.2	0.6	1.2	1.2	1.2	1.3	1.3	1.3
Türkiye	%	2.8	2.1	2.6	3.2	2.9	2.8	2.7	2.6	2.4	2.2	2.0
United Kingdom	%	-0.9	3.3	0.8	1.1	1.9	1.5	1.5	1.5	1.5	1.5	1.5
United States	%	0.9	3.1	1.7	0.9	1.1	1.1	1.2	1.2	1.2	1.2	1.2
Brazil	%	0.0	0.2	0.8	1.6	1.5	1.5	1.5	1.6	1.6	1.6	1.7
China	%	5.1	4.1	4.8	4.9	4.8	4.8	4.8	4.8	4.9	4.9	4.9
Egypt	%	2.2	4.0	3.2	3.7	4.0	4.1	4.2	3.9	3.7	3.4	3.2
India	%	1.1	7.1	5.9	6.0	6.1	5.6	5.3	5.0	4.7	4.4	4.2
Indonesia	%	1.0	4.4	5.0	4.8	4.5	4.3	4.3	4.1	3.9	3.7	3.5
Iran	%	-1.6	1.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.3
Malaysia	%	-0.5	4.3	4.3	3.7	3.3	3.3	2.9	2.8	2.7	2.6	2.5
Pakistan	%	-0.1	2.0	2.3	2.7	3.0	3.2	3.2	3.1	2.9	2.7	2.6
Russia	%	1.1	-8.5	-2.2	1.7	1.2	1.0	1.0	1.0	1.1	1.1	1.1
Saudi Arabia	%	-1.9	6.1	2.3	1.4	1.4	1.5	1.6	1.6	1.6	1.5	1.5
South Africa	%	-1.7	0.7	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
Ukraine	%	1.5	4.3	4.1	4.5	4.7	4.7	4.6	4.4	4.3	4.2	4.1
OECD ³	%	0.3	2.9	1.9	1.3	1.3	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. 110, December 2021. For other economies, historical macroeconomic data were obtained from the IMF, World Economic Outlook, October 2021. Assumptions for the projection period draw on the historical 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 2019-21est and 2021est: Data for 2021 are estimated.

1. Annual per cent change.
2. Annual weighted average real GDP and CPI growth rates in OECD countries are based on weights using purchasing power parities (PPPs).
3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Short-term update for crude oil price from the OECD Economic Outlook N°110 (December 2021). For 2021, the annual average daily spot price is used and 2022 is based on an estimates of the current situation. The oil prices follow the growth rate from the World bank crude oil average price during the projection period.
5. World Bank. Data for 2021 are estimated, projections by OECD and FAO Secretariats.

Source: OECD/FAO (2022), "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 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
CEREALS												
Wheat ¹	USD/t	287.1	345.7	284.1	260.4	256.7	256.0	260.0	262.7	265.2	268.2	271.0
Maize ²	USD/t	221.8	268.0	218.0	200.0	196.1	195.8	199.8	201.6	202.9	204.5	206.0
Other coarse grains ³	USD/t	244.7	318.9	259.0	236.8	231.4	229.0	234.0	237.1	240.2	242.9	245.4
Rice ⁴	USD/t	404.0	398.4	400.5	404.8	408.8	410.6	411.9	412.7	413.7	414.7	415.9
Distiller's dry grains ⁵	USD/t	186.5	182.7	176.9	174.3	170.1	168.9	171.7	173.5	175.2	176.5	177.2
OILSEEDS												
Soybean ⁶	USD/t	510.7	560.3	497.2	472.2	475.0	480.0	489.4	499.6	504.8	512.4	523.3
Other oilseeds ⁷	USD/t	612.1	720.5	589.9	581.7	559.5	562.1	577.5	585.0	593.7	602.9	612.4
Protein meals ⁸	USD/t	407.5	437.5	391.5	373.2	371.4	375.2	385.7	392.7	399.5	406.9	412.3
Vegetable oils ⁹	USD/t	1 145.1	1 218.5	1 091.3	1 109.3	1 100.2	1 117.5	1 129.9	1 147.5	1 163.0	1 181.8	1 200.8
SWEETENERS												
Raw sugar ¹⁰	USD/t	353.8	421.8	355.6	326.8	318.0	316.4	321.7	326.7	331.6	336.3	341.0
Refined sugar ¹¹	USD/t	435.5	501.3	435.9	407.5	400.3	398.1	405.2	410.8	416.5	422.4	427.8
HFCS ¹²	USD/t dw	906.2	851.4	740.5	694.4	682.8	679.6	689.4	697.8	706.6	714.7	721.1
Molasses ¹³	USD/t	199.7	233.1	201.9	186.5	177.6	175.7	179.1	184.6	189.5	193.4	196.4
MEAT												
Beef and veal												
Price, EU ¹⁴	USD/t dwt	4 215.6	5 182.2	4 603.1	4 256.0	4 284.7	4 313.6	4 355.4	4 382.9	4 424.6	4 462.8	4 493.2
Price, United States ¹⁵	USD/t dwt	4 121.0	4 949.7	4 746.6	4 585.6	4 501.4	4 541.5	4 582.1	4 608.0	4 646.7	4 685.6	4 721.1
Price, Brazil ¹⁶	USD/t dwt	4 497.0	5 570.1	4 917.2	4 545.7	4 585.6	4 624.7	4 666.7	4 693.8	4 740.1	4 783.4	4 817.0
Pigmeat												
Price, EU ¹⁷	USD/t dwt	1 834.4	1 847.2	1 675.8	1 734.2	1 741.2	1 757.1	1 778.4	1 786.2	1 800.1	1 798.6	1 797.5
Price, United States ¹⁸	USD/t dwt	1 616.9	2 236.4	1 806.6	1 721.0	1 632.6	1 656.9	1 678.2	1 683.5	1 688.8	1 685.5	1 677.8
Price, Brazil ¹⁹	USD/t dwt	2 349.1	2 534.0	2 273.8	2 365.2	2 359.4	2 374.3	2 396.6	2 405.5	2 424.5	2 422.3	2 417.3
Poultry meat												
Price, EU ²⁰	USD/t rtc	2 162.1	2 447.4	2 354.4	2 389.5	2 438.3	2 481.3	2 526.2	2 546.2	2 559.2	2 574.6	2 590.3
Price, United States ²¹	USD/t rtc	1 056.6	1 219.2	1 115.1	1 124.5	1 144.5	1 161.9	1 181.9	1 189.9	1 195.1	1 201.0	1 194.9
Price, Brazil ²²	USD/t rtc	1 550.8	1 809.9	1 652.9	1 667.0	1 696.9	1 723.9	1 754.7	1 768.4	1 776.3	1 785.6	1 794.1
Sheep meat												
Price, New Zealand ²³	USD/t dwt	4 884.8	4 964.7	4 926.2	4 964.3	5 006.1	5 066.1	5 136.4	5 181.4	5 252.5	5 306.1	5 341.4
FISH AND SEAFOOD												
Product traded ²⁴	USD/t	3 095.5	3 947.9	3 570.0	3 624.7	3 580.5	3 649.7	3 745.2	3 984.9	3 840.4	3 897.7	3 960.1
Aquaculture ²⁵	USD/t	3 026.0	3 740.8	3 407.6	3 490.3	3 481.9	3 577.0	3 689.3	3 932.5	3 829.7	3 919.9	4 012.7
Capture ²⁶	USD/t	1 881.7	2 216.4	2 072.7	2 099.9	2 082.4	2 112.4	2 153.5	2 254.0	2 197.1	2 221.7	2 248.4
Meal ²⁷	USD/t	1 453.1	1 558.3	1 484.4	1 548.6	1 381.1	1 415.5	1 502.2	1 611.9	1 546.7	1 585.5	1 625.6
Oil ²⁸	USD/t	1 910.3	2 312.5	2 028.6	1 922.0	1 738.8	1 744.1	1 773.3	2 108.8	1 979.2	2 033.1	2 088.2
DAIRY PRODUCTS												
Butter ²⁹	USD/t	4 495.2	4 833.9	4 544.7	4 412.7	4 395.1	4 438.8	4 532.5	4 583.7	4 690.6	4 764.5	4 843.4
Cheese ³⁰	USD/t	4 096.5	4 299.8	4 259.5	4 234.6	4 246.9	4 296.7	4 364.2	4 426.3	4 503.6	4 571.5	4 635.5
Skim milk powder ³¹	USD/t	2 925.5	3 219.5	3 270.3	3 233.2	3 207.9	3 230.3	3 270.2	3 330.3	3 396.6	3 458.6	3 518.4
Whole milk powder ³²	USD/t	3 307.9	3 647.3	3 646.9	3 590.7	3 580.1	3 613.1	3 658.4	3 729.0	3 807.8	3 881.6	3 956.4
Whey powder ³³	USD/t	1 005.8	1 061.0	1 053.4	1 031.8	1 023.0	1 030.7	1 043.4	1 059.7	1 077.3	1 094.8	1 113.0
Casein ³⁴	USD/t	7 425.8	8 253.3	8 340.2	8 206.0	8 134.1	8 200.6	8 297.1	8 437.2	8 581.1	8 726.9	8 871.2
BIOFUEL												
Ethanol ³⁵	USD/hl	47.6	66.9	49.2	49.9	51.1	51.0	51.6	52.2	52.8	52.8	53.5
Biodiesel ³⁶	USD/hl	105.9	125.2	109.0	108.0	108.8	109.9	111.1	112.7	113.7	114.8	116.0
COTTON												
Cotton ³⁷	USD/t	1 964.1	2 622.6	2 190.9	1 986.4	1 794.5	1 814.8	1 832.4	1 848.1	1 855.9	1 857.8	1 854.6
ROOTS AND TUBERS												
Roots and tubers ³⁸	USD/t	436.4	450.9	463.0	459.6	469.8	474.0	484.1	487.6	493.2	501.7	504.4
USA GDP Deflator (2021=1)	Index	0.971	1.063	1.095	1.122	1.145	1.167	1.190	1.214	1.237	1.262	1.287

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Table C.11. World prices (cont.)

Real price

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
CEREALS												
Wheat ¹	USD/t	294.4	325.2	259.5	232.1	224.3	219.4	218.5	216.5	214.4	212.6	210.6
Maize ²	USD/t	227.7	252.1	199.2	178.3	171.3	167.8	167.9	166.1	164.0	162.1	160.2
Other coarse grains ³	USD/t	251.0	300.0	236.6	211.2	202.2	196.2	196.7	195.4	194.1	192.5	190.8
Rice ⁴	USD/t	416.4	374.9	365.9	360.9	357.2	351.8	346.1	340.1	334.3	328.7	323.2
Distiller's dry grains ⁵	USD/t	192.1	172.0	161.6	155.4	148.6	144.7	144.2	143.0	141.6	139.9	137.7
OILSEEDS												
Soybean ⁶	USD/t	524.8	527.3	454.2	421.0	415.0	411.3	411.3	411.7	408.0	406.1	406.8
Other oilseeds ⁷	USD/t	627.6	678.0	538.9	518.6	488.8	481.6	485.2	482.1	479.8	477.9	476.1
Protein meals ⁸	USD/t	418.9	411.7	357.6	332.8	324.5	321.5	324.1	323.6	322.9	322.5	320.5
Vegetable oils ⁹	USD/t	1 174.2	1 146.5	997.0	989.1	961.2	957.5	949.4	945.7	939.9	936.7	933.4
SWEETENERS												
Raw sugar ¹⁰	USD/t	363.5	396.9	324.8	291.4	277.8	271.1	270.4	269.2	268.0	266.5	265.1
Refined sugar ¹¹	USD/t	447.8	471.7	398.2	363.4	349.7	341.1	340.5	338.5	336.6	334.8	332.5
HFCS ¹²	USD/t dw	934.9	801.1	676.5	619.1	596.6	582.3	579.3	575.1	571.1	566.5	560.5
Molasses ¹³	USD/t	205.3	219.3	184.4	166.3	155.2	150.6	150.5	152.1	153.2	153.3	152.6
MEAT												
Beef and veal												
Price, EU ¹⁴	USD/t dwt	4 339.4	4 876.3	4 205.1	3 794.6	3 743.5	3 696.0	3 659.9	3 611.9	3 575.9	3 537.2	3 492.6
Price, United States ¹⁵	USD/t dwt	4 245.0	4 657.5	4 336.2	4 088.5	3 932.8	3 891.3	3 850.4	3 797.4	3 755.4	3 713.8	3 669.8
Price, Brazil ¹⁶	USD/t dwt	4 626.7	5 241.3	4 492.0	4 052.9	4 006.4	3 962.6	3 921.4	3 868.1	3 830.9	3 791.3	3 744.3
Pigmeat												
Price, EU ¹⁷	USD/t dwt	1 891.7	1 738.2	1 530.9	1 546.2	1 521.3	1 505.5	1 494.3	1 472.0	1 454.8	1 425.6	1 397.2
Price, United States ¹⁸	USD/t dwt	1 660.2	2 104.4	1 650.4	1 534.4	1 426.3	1 419.7	1 410.2	1 387.4	1 364.9	1 335.9	1 304.1
Price, Brazil ¹⁹	USD/t dwt	2 419.9	2 384.4	2 077.2	2 108.8	2 061.3	2 034.4	2 013.8	1 982.4	1 959.5	1 919.9	1 879.0
Poultry meat												
Price, EU ²⁰	USD/t rtc	2 228.3	2 302.9	2 150.8	2 130.5	2 130.3	2 126.0	2 122.8	2 098.3	2 068.3	2 040.7	2 013.4
Price, United States ²¹	USD/t rtc	1 087.4	1 147.2	1 018.7	1 002.6	999.9	995.6	993.1	980.6	965.9	951.9	928.8
Price, Brazil ²²	USD/t rtc	1 597.8	1 703.1	1 510.0	1 486.3	1 482.5	1 477.0	1 474.5	1 457.3	1 435.6	1 415.3	1 394.6
Sheep meat												
Price, New Zealand ²³	USD/t dwt	5 036.5	4 671.6	4 500.2	4 426.1	4 373.7	4 340.7	4 316.1	4 269.9	4 245.0	4 205.6	4 151.9
FISH AND SEAFOOD												
Product traded ²⁴	USD/t	3 187.7	3 714.8	3 261.3	3 231.7	3 128.2	3 127.2	3 147.1	3 283.9	3 103.7	3 089.3	3 078.2
Aquaculture ²⁵	USD/t	3 119.5	3 520.0	3 113.0	3 111.9	3 042.0	3 064.9	3 100.1	3 240.7	3 095.1	3 106.9	3 119.1
Capture ²⁶	USD/t	1 939.2	2 085.5	1 893.5	1 872.2	1 819.4	1 810.0	1 809.6	1 857.5	1 775.7	1 760.9	1 747.7
Meal ²⁷	USD/t	1 497.4	1 466.3	1 356.1	1 380.7	1 206.6	1 212.8	1 262.3	1 328.3	1 250.0	1 256.6	1 263.6
Oil ²⁸	USD/t	1 966.7	2 176.0	1 853.2	1 713.6	1 519.2	1 494.4	1 490.1	1 737.8	1 599.6	1 611.4	1 623.2
DAIRY PRODUCTS												
Butter ²⁹	USD/t	4 625.5	4 548.5	4 151.8	3 934.3	3 839.9	3 803.3	3 808.7	3 777.3	3 790.9	3 776.3	3 764.8
Cheese ³⁰	USD/t	4 217.6	4 046.0	3 891.2	3 775.6	3 710.4	3 681.5	3 667.2	3 647.7	3 639.8	3 623.4	3 603.2
Skim milk powder ³¹	USD/t	3 008.5	3 029.4	2 987.6	2 882.7	2 802.6	2 767.8	2 747.9	2 744.5	2 745.1	2 741.3	2 734.9
Whole milk powder ³²	USD/t	3 401.8	3 432.0	3 331.5	3 201.4	3 127.8	3 095.8	3 074.1	3 073.0	3 077.4	3 076.6	3 075.4
Whey powder ³³	USD/t	1 033.4	998.4	962.4	920.0	893.7	883.1	876.7	873.3	870.7	867.8	865.1
Casein ³⁴	USD/t	7 634.1	7 766.0	7 619.0	7 316.4	7 106.6	7 026.4	6 972.0	6 953.0	6 935.1	6 916.9	6 895.7
BIOFUEL												
Ethanol ³⁵	USD/hl	48.8	62.9	45.0	44.5	44.6	43.7	43.4	43.0	42.7	41.9	41.6
Biodiesel ³⁶	USD/hl	108.5	117.8	99.5	96.3	95.0	94.1	93.4	92.8	91.9	91.0	90.2
COTTON												
Cotton ³⁷	USD/t	2 016.1	2 467.8	2 001.4	1 771.1	1 567.8	1 555.0	1 539.7	1 523.0	1 499.9	1 472.5	1 441.6
ROOTS AND TUBERS												
Roots and tubers ³⁸	USD/t	449.8	424.3	422.9	409.8	410.5	406.2	406.8	401.8	398.6	397.6	392.1

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 2019-21est: Data for 2021 are estimated. Real prices are deflated using USA GDP base year 2021=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. FAO all rice price index normalised to India, indica high quality 5% broken average 2014-2016 (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. US Choice steers, 5-area Direct c.w.e.
16. Brazil: frozen beef, export unit value, product weight.
17. EU average pigmeat producer price.
18. US Barrows and gilts, National base 51-52% lean c.w.e.
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 (2022), "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 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Wheat												
World Trade	kt	185 356	187 226	193 408	197 944	201 191	204 361	207 216	209 998	212 706	215 248	217 904
OECD ¹	kt	39 292	37 707	39 432	40 256	40 759	40 965	41 116	41 200	41 358	41 468	41 653
Developing countries	kt	155 513	157 940	162 683	167 048	170 282	173 552	176 363	179 201	181 922	184 500	187 121
Least Developed Countries	kt	19 091	20 671	21 283	21 930	22 498	23 165	23 801	24 445	25 073	25 700	26 340
Maize												
World Trade	kt	181 298	179 294	180 069	179 556	182 296	184 983	187 479	190 953	194 470	197 775	200 817
OECD ¹	kt	78 031	80 441	81 346	81 271	81 916	82 376	83 069	84 254	85 616	86 899	88 066
Developing countries	kt	141 909	138 963	138 974	138 721	141 375	144 119	146 469	149 452	152 284	154 984	157 487
Least Developed Countries	kt	4 208	4 537	4 349	4 386	4 380	4 484	4 480	4 451	4 419	4 381	4 341
Other coarse grains												
World Trade	kt	44 301	43 974	44 475	44 923	44 945	45 619	46 333	47 084	47 681	48 427	49 006
OECD ¹	kt	9 317	8 700	8 855	9 045	9 030	9 033	9 036	9 093	9 179	9 287	9 355
Developing countries	kt	36 993	36 826	37 351	37 777	37 894	38 626	39 380	40 155	40 757	41 500	42 075
Least Developed Countries	kt	1 066	759	700	736	781	850	884	921	938	954	962
Rice												
World Trade	kt	46 598	52 692	52 868	54 014	55 327	57 075	58 695	60 183	61 601	63 041	64 482
OECD ¹	kt	6 728	6 709	6 731	6 816	6 922	7 029	7 135	7 236	7 328	7 416	7 506
Developing countries	kt	40 121	46 097	46 251	47 358	48 611	50 288	51 833	53 242	54 586	55 952	57 312
Least Developed Countries	kt	11 225	13 292	13 477	14 080	14 793	15 648	16 404	17 098	17 802	18 522	19 266
Soybean												
World Trade	kt	160 482	167 018	169 637	170 910	171 976	173 114	174 711	175 313	176 715	177 985	178 801
OECD ¹	kt	30 045	29 499	30 512	30 451	30 239	30 100	30 032	29 849	29 821	29 749	29 548
Developing countries	kt	138 051	144 778	146 537	147 924	149 325	150 713	152 532	153 447	155 049	156 519	157 659
Least Developed Countries	kt	1 617	1 684	1 728	1 769	1 804	1 842	1 883	1 919	1 961	2 003	2 039
Other oilseeds												
World Trade	kt	21 330	22 530	24 005	23 829	24 269	24 650	24 825	25 122	25 338	25 577	25 799
OECD ¹	kt	12 953	12 864	14 048	13 885	14 015	14 099	14 009	13 999	13 896	13 805	13 810
Developing countries	kt	9 929	11 388	11 664	11 651	11 998	12 331	12 622	12 942	13 247	13 566	13 763
Least Developed Countries	kt	347	386	440	480	507	537	545	554	563	570	574
Protein meals												
World Trade	kt	91 072	92 880	94 007	94 956	96 411	97 160	97 886	99 011	99 764	100 424	101 540
OECD ¹	kt	47 587	46 798	46 895	47 034	47 269	47 137	46 948	46 891	46 734	46 582	46 628
Developing countries	kt	51 738	54 306	55 392	56 238	57 550	58 519	59 544	60 883	61 922	62 878	64 123
Least Developed Countries	kt	1 363	1 553	1 567	1 612	1 671	1 767	1 872	1 983	2 085	2 192	2 308
Vegetable oils												
World Trade	kt	84 280	87 528	88 681	89 360	90 247	90 853	91 455	92 065	92 546	92 953	93 536
OECD ¹	kt	23 691	23 574	23 306	23 104	22 817	22 581	22 357	22 151	21 916	21 710	21 672
Developing countries	kt	62 035	65 325	66 776	67 654	68 842	69 671	70 496	71 319	72 039	72 654	73 270
Least Developed Countries	kt	7 058	7 573	7 839	8 086	8 329	8 558	8 810	9 053	9 286	9 502	9 711
Sugar												
World Trade	kt	60 708	58 456	59 887	60 840	61 603	62 339	63 181	64 071	64 926	65 773	66 464
OECD ¹	kt	13 056	11 917	11 830	11 984	11 943	11 875	11 790	11 722	11 675	11 643	11 552
Developing countries	kt	47 357	46 526	47 925	48 914	49 846	50 656	51 531	52 418	53 300	54 186	54 959
Least Developed Countries	kt	9 632	9 625	10 036	10 475	10 857	11 146	11 433	11 693	11 949	12 218	12 472
Beef²												
World Trade	kt	11 011	11 581	11 896	12 070	12 180	12 278	12 379	12 478	12 580	12 678	12 782
OECD ¹	kt	4 530	4 670	4 732	4 733	4 744	4 769	4 798	4 821	4 837	4 854	4 875
Developing countries	kt	6 935	7 455	7 689	7 878	7 994	8 095	8 195	8 296	8 406	8 512	8 620
Least Developed Countries	kt	89	128	166	211	231	248	263	278	297	317	340
Pigmeat²												
World Trade	kt	11 617	11 936	11 304	10 824	10 674	10 571	10 509	10 471	10 456	10 447	10 470
OECD ¹	kt	5 425	5 855	5 907	5 904	5 957	5 998	6 041	6 075	6 111	6 147	6 189
Developing countries	kt	7 773	7 864	7 249	6 799	6 615	6 489	6 404	6 352	6 321	6 297	6 295
Least Developed Countries	kt	146	167	209	220	236	252	268	284	300	316	334
Poultry meat												
World Trade	kt	13 831	14 872	14 910	14 940	15 053	15 164	15 320	15 512	15 688	15 873	16 081
OECD ¹	kt	4 074	4 300	4 387	4 439	4 468	4 490	4 504	4 519	4 526	4 535	4 552
Developing countries	kt	9 522	10 410	10 377	10 360	10 456	10 572	10 747	10 951	11 141	11 340	11 551
Least Developed Countries	kt	982	1 227	1 271	1 340	1 399	1 459	1 520	1 586	1 657	1 732	1 811
Sheep meat²												
World Trade	kt	1 104	1 064	1 069	1 072	1 072	1 072	1 073	1 077	1 080	1 082	1 086
OECD ¹	kt	446	444	437	432	426	421	415	410	405	400	396
Developing countries	kt	675	635	646	655	661	667	673	682	690	697	705
Least Developed Countries	kt	2	2	2	2	2	2	2	2	2	2	2

ANNEX C

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

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Butter												
World Trade	kt	1 022	994	1 028	1 026	1 038	1 053	1 070	1 086	1 097	1 113	1 126
OECD ¹	kt	333	309	329	326	323	324	323	325	325	327	328
Developing countries	kt	582	565	581	590	606	621	638	651	662	675	688
Least Developed Countries	kt	10	9	11	13	16	22	32	38	42	47	51
Cheese												
World Trade	kt	3 432	3 604	3 640	3 681	3 744	3 802	3 862	3 926	3 993	4 063	4 133
OECD ¹	kt	1 737	1 777	1 787	1 811	1 836	1 860	1 885	1 910	1 936	1 964	1 996
Developing countries	kt	1 570	1 709	1 756	1 795	1 833	1 870	1 906	1 944	1 986	2 029	2 070
Least Developed Countries	kt	25	36	42	48	51	56	62	66	74	79	84
Whole milk powder												
World Trade	kt	2 828	2 769	2 837	2 881	2 906	2 932	2 963	2 980	2 998	3 017	3 035
OECD ¹	kt	162	138	165	177	177	178	179	178	178	178	178
Developing countries	kt	2 676	2 638	2 691	2 737	2 764	2 791	2 825	2 844	2 864	2 885	2 904
Least Developed Countries	kt	262	263	271	281	292	301	311	320	329	338	347
Skim milk powder												
World Trade	kt	2 652	2 772	2 829	2 885	2 933	2 982	3 030	3 078	3 124	3 172	3 222
OECD ¹	kt	538	544	550	555	559	564	567	571	574	578	582
Developing countries	kt	2 381	2 518	2 566	2 615	2 661	2 710	2 757	2 805	2 851	2 899	2 949
Least Developed Countries	kt	125	129	135	139	144	149	154	159	164	169	174
Fish												
World Trade	kt	43 363	42 291	43 570	43 762	44 200	44 572	44 940	45 102	45 398	45 655	45 902
OECD ¹	kt	22 839	22 865	23 296	23 383	23 492	23 544	23 713	23 821	23 702	23 701	23 723
Developing countries	kt	21 097	20 663	21 212	21 351	21 676	21 947	22 143	22 284	22 683	22 933	23 198
Least Developed Countries	kt	1 257	1 354	1 404	1 418	1 454	1 479	1 503	1 509	1 549	1 569	1 588
Fishmeal³												
World Trade	kt	3 407	3 438	3 479	3 352	3 471	3 518	3 564	3 382	3 565	3 616	3 661
OECD ¹	kt	1 148	1 046	1 058	989	1 007	987	970	897	939	933	929
Developing countries	kt	2 513	2 616	2 653	2 595	2 682	2 742	2 799	2 685	2 822	2 878	2 927
Least Developed Countries	kt	64	71	75	72	80	82	82	74	80	82	83
Fish oil³												
World Trade	kt	908	921	936	926	947	975	987	982	1 014	1 034	1 045
OECD ¹	kt	735	739	754	747	748	773	780	787	798	818	825
Developing countries	kt	313	282	292	292	315	318	321	297	322	325	330
Least Developed Countries	kt	5	5	5	5	5	5	5	5	5	5	5
Ethanol												
World Trade	kt	11 475	11 610	11 712	11 705	11 690	11 673	11 658	11 640	11 606	11 578	11 569
OECD ¹	kt	7 297	7 887	7 886	7 839	7 800	7 758	7 729	7 686	7 632	7 585	7 560
Developing countries	kt	5 354	6 005	5 987	5 970	5 944	5 924	5 896	5 880	5 858	5 837	5 826
Least Developed Countries	kt	316	277	296	304	308	310	311	312	313	313	314
Biodiesel												
World Trade	kt	7 799	6 746	6 939	6 935	6 869	6 798	6 618	6 484	6 437	6 377	6 407
OECD ¹	kt	7 246	6 489	6 509	6 482	6 427	6 362	6 189	6 059	6 016	5 961	5 992
Developing countries	kt	554	257	430	454	442	436	428	425	420	417	414
Least Developed Countries	kt	0	0	0	0	0	0	0	0	0	0	0
Cotton												
World Trade	kt	9 836	10 091	10 412	10 723	11 033	11 214	11 461	11 699	11 945	12 190	12 436
OECD ¹	kt	1 626	1 696	1 540	1 556	1 580	1 605	1 629	1 653	1 670	1 686	1 698
Developing countries	kt	9 525	9 729	10 054	10 362	10 672	10 852	11 099	11 335	11 581	11 825	12 071
Least Developed Countries	kt	1 703	1 784	1 941	2 078	2 221	2 302	2 383	2 464	2 546	2 629	2 714
Roots and tubers												
World Trade	kt	18 371	18 676	19 193	19 386	19 681	19 990	20 334	20 685	21 037	21 453	21 837
OECD ¹	kt	3 673	3 830	3 797	3 886	3 885	3 924	3 945	3 967	3 991	3 999	4 017
Developing countries	kt	15 314	15 512	14 935	15 222	15 608	16 027	16 399	16 799	17 201	17 698	18 132
Least Developed Countries	kt	234	234	233	244	243	247	247	250	251	248	246

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 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Wheat												
OECD ¹	kt	106 588	100 987	104 169	104 540	105 455	106 708	107 749	108 671	109 477	110 041	110 808
Developing countries	kt	26 054	31 716	30 749	30 540	30 532	30 627	30 818	30 999	31 159	31 312	31 378
Least Developed Countries	kt	157	143	141	138	135	132	130	127	125	122	120
Maize												
OECD ¹	kt	66 513	67 019	65 705	63 105	63 525	63 838	63 821	63 963	64 205	64 502	64 498
Developing countries	kt	74 298	76 666	80 039	81 282	82 426	83 730	85 250	87 148	88 825	90 040	91 139
Least Developed Countries	kt	3 007	3 202	3 365	3 428	3 505	3 400	3 446	3 554	3 709	3 935	4 223
Other coarse grains												
OECD ¹	kt	31 532	32 630	32 007	32 205	32 045	32 430	32 813	33 100	33 249	33 460	33 492
Developing countries	kt	5 513	6 077	6 554	6 275	6 060	5 899	5 812	5 811	5 779	5 793	5 816
Least Developed Countries	kt	588	980	968	939	866	787	757	726	710	699	695
Rice												
OECD ¹	kt	3 668	3 608	3 636	3 568	3 623	3 721	3 746	3 774	3 802	3 835	3 842
Developing countries	kt	44 909	48 942	49 071	50 277	51 508	53 132	54 702	56 139	57 506	58 891	60 300
Least Developed Countries	kt	4 263	4 484	4 879	5 099	5 229	5 256	5 352	5 525	5 736	5 984	6 267
Soybean												
OECD ¹	kt	59 461	61 610	62 296	63 063	63 796	63 899	64 387	64 776	65 128	65 248	65 595
Developing countries	kt	95 932	102 483	104 364	104 838	105 129	106 125	107 193	107 363	108 373	109 485	109 910
Least Developed Countries	kt	20	18	18	18	18	18	18	17	17	17	17
Other oilseeds												
OECD ¹	kt	13 688	13 263	14 637	14 059	14 492	14 947	14 898	15 036	15 239	15 416	15 571
Developing countries	kt	3 041	3 197	3 267	3 397	3 377	3 293	3 346	3 371	3 376	3 387	3 403
Least Developed Countries	kt	315	342	383	396	399	367	375	375	372	371	370
Protein meals												
OECD ¹	kt	20 770	21 571	21 878	22 327	22 802	23 344	23 714	23 920	24 289	24 721	25 068
Developing countries	kt	62 135	62 884	63 512	63 830	64 543	64 491	64 597	65 296	65 439	65 407	65 954
Least Developed Countries	kt	356	346	356	339	325	298	275	254	239	225	213
Vegetable oils												
OECD ¹	kt	9 127	7 819	8 274	8 297	8 517	8 795	8 902	8 993	9 079	9 156	9 155
Developing countries	kt	66 453	68 687	69 020	69 432	69 733	69 822	70 105	70 390	70 543	70 622	70 966
Least Developed Countries	kt	566	578	563	541	518	497	477	458	440	425	410
Sugar												
OECD ¹	kt	6 936	8 191	7 968	7 562	7 736	7 972	7 890	7 980	8 023	8 050	8 087
Developing countries	kt	55 880	53 814	55 274	56 383	56 664	56 946	57 738	58 446	59 231	60 027	60 629
Least Developed Countries	kt	2 387	1 849	2 191	2 348	2 414	2 341	2 295	2 211	2 138	2 084	2 014
Beef²												
OECD ¹	kt	4 861	4 936	5 193	5 293	5 329	5 374	5 415	5 454	5 495	5 533	5 581
Developing countries	kt	5 770	6 415	6 387	6 422	6 507	6 570	6 632	6 690	6 752	6 811	6 868
Least Developed Countries	kt	13	11	10	9	8	7	6	6	5	5	5
Pigmeat²												
OECD ¹	kt	10 281	10 495	10 103	9 596	9 414	9 301	9 231	9 182	9 148	9 118	9 124
Developing countries	kt	1 665	1 750	1 511	1 518	1 539	1 548	1 553	1 561	1 576	1 593	1 606
Least Developed Countries	kt	1	1	1	1	1	1	1	1	1	1	1
Poultry meat												
OECD ¹	kt	7 414	6 897	6 893	6 901	6 911	6 954	7 010	7 076	7 122	7 189	7 290
Developing countries	kt	7 881	7 644	7 746	7 855	8 017	8 126	8 250	8 398	8 565	8 726	8 884
Least Developed Countries	kt	65	59	57	54	51	49	47	45	44	42	40
Sheep meat²												
OECD ¹	kt	1 051	1 076	1 084	1 091	1 098	1 104	1 109	1 116	1 123	1 131	1 138
Developing countries	kt	82	77	87	93	93	92	90	91	89	86	85
Least Developed Countries	kt	4	5	4	4	3	2	2	1	1	1	1
Butter												
OECD ¹	kt	841	789	823	826	844	858	874	889	899	913	925
Developing countries	kt	104	94	102	99	91	90	93	95	99	102	105
Least Developed Countries	kt	1	1	1	1	1	1	1	1	1	1	1
Cheese												
OECD ¹	kt	2 609	2 715	2 752	2 804	2 867	2 922	2 976	3 038	3 100	3 166	3 230
Developing countries	kt	577	576	570	555	549	547	548	548	551	556	565
Least Developed Countries	kt	0	0	0	0	0	0	0	0	0	0	0
Whole milk powder												
OECD ¹	kt	2 010	2 034	2 102	2 144	2 165	2 184	2 215	2 226	2 240	2 253	2 265
Developing countries	kt	718	677	676	678	681	686	686	690	693	697	700
Least Developed Countries	kt	5	5	5	5	4	4	4	4	4	4	4
Skim milk powder												
OECD ¹	kt	2 372	2 422	2 487	2 553	2 607	2 659	2 709	2 757	2 801	2 848	2 899
Developing countries	kt	216	280	276	270	266	265	266	266	268	269	271
Least Developed Countries	kt	10	12	12	12	11	11	11	10	10	10	10

ANNEX C

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

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Fish³												
OECD ¹	kt	13 076	13 566	13 554	13 662	13 963	14 182	14 285	14 254	14 536	14 686	14 804
Developing countries	kt	28 150	28 318	28 727	28 562	28 822	28 981	29 237	29 241	29 433	29 569	29 742
Least Developed Countries	kt	2 068	2 072	2 006	2 011	1 974	1 958	1 948	1 966	1 936	1 936	1 941
Fishmeal⁴												
OECD ¹	kt	960	870	883	879	882	922	930	902	914	940	945
Developing countries	kt	2 398	2 341	2 376	2 214	2 376	2 401	2 435	2 229	2 449	2 488	2 525
Least Developed Countries	kt	151	158	161	161	166	168	169	167	170	171	173
Fish oil⁴												
OECD ¹	kt	563	556	560	575	552	565	562	595	572	581	582
Developing countries	kt	512	534	542	517	541	554	564	544	579	591	595
Least Developed Countries	kt	40	31	33	35	37	39	41	41	41	41	41
Ethanol												
OECD ¹	kt	5 981	6 096	6 284	6 230	6 445	6 448	6 422	6 396	6 348	6 318	6 299
Developing countries	kt	3 984	4 015	3 929	3 974	3 743	3 722	3 734	3 743	3 757	3 759	3 770
Least Developed Countries	kt	36	31	31	31	31	31	31	31	31	31	31
Biodiesel												
OECD ¹	kt	2 647	2 311	2 353	2 397	2 441	2 488	2 537	2 603	2 661	2 723	2 774
Developing countries	kt	3 993	3 854	4 004	3 955	3 844	3 727	3 497	3 297	3 192	3 070	3 048
Least Developed Countries	kt	0	0	0	0	0	0	0	0	0	0	0
Cotton												
OECD ¹	kt	4 375	4 481	4 469	4 501	4 528	4 570	4 632	4 680	4 742	4 806	4 875
Developing countries	kt	5 163	5 398	5 709	6 079	6 422	6 586	6 774	6 968	7 158	7 347	7 532
Least Developed Countries	kt	1 195	1 408	1 542	1 571	1 599	1 607	1 627	1 652	1 676	1 701	1 726
Roots and tubers												
OECD ¹	kt	1 761	1 819	1 832	1 840	1 859	1 872	1 888	1 897	1 909	1 933	1 945
Developing countries	kt	12 263	12 499	12 993	13 174	13 439	13 721	14 041	14 369	14 702	15 077	15 445
Least Developed Countries	kt	136	137	139	132	132	132	132	132	132	135	137

Note: Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	769 701	840 061	1.32	0.79	185 356	217 904	2.66	1.60	189 822	217 904	3.02	1.60
NORTH AMERICA	78 878	88 735	-2.15	0.48	2 971	3 394	-3.36	0.87	47 568	50 909	-0.85	1.19
Canada	29 835	36 577	-0.96	1.07	204	148	13.36	2.26	22 294	26 706	-0.38	1.43
United States	49 043	52 159	-2.81	0.08	2 767	3 246	-3.98	0.81	25 275	24 203	-1.23	0.93
LATIN AMERICA	33 089	38 159	5.20	1.14	23 144	27 884	0.56	1.16	15 832	19 792	10.50	1.34
Argentina	19 817	23 436	10.80	1.41	3	3	0.00	-0.02	13 725	16 875	23.13	1.32
Brazil	6 400	7 457	1.55	1.52	6 164	6 712	-1.91	-0.31	571	589	-11.83	0.00
Chile	1 313	1 317	-1.36	-0.99	1 216	1 417	6.06	1.88	0	0	..	..
Colombia	5	4	-16.43	-1.17	1 932	2 131	3.36	0.61	20	18	30.72	-0.61
Mexico	3 172	3 217	-1.32	0.62	4 749	6 585	1.19	2.41	581	1 248	-6.08	7.40
Paraguay	992	1 133	-2.59	-0.50	1	1	-45.67	0.77	346	483	-6.83	-2.91
Peru	190	238	-2.25	1.21	2 169	2 696	3.10	1.35	3	3	-7.47	-0.32
EUROPE	262 827	273 761	2.49	0.80	8 288	8 075	-2.91	0.14	88 954	103 477	6.53	2.53
European Union ¹	133 907	126 677	0.28	-0.26	4 511	5 229	-3.04	1.47	33 832	32 046	0.87	0.78
United Kingdom	13 833	16 678	-0.37	1.02	1 516	734	-3.68	-5.65	751	1 185	-8.44	3.82
Russia	78 450	92 466	7.15	1.55	191	399	18.63	3.05	34 143	47 842	14.48	2.50
Ukraine	28 427	28 154	4.81	3.60	24	15	-12.82	-0.87	18 803	19 296	9.85	6.41
AFRICA	27 363	34 264	0.82	0.99	50 666	62 948	2.14	2.28	847	490	-0.59	-2.04
Egypt	9 000	10 416	-0.50	1.30	12 415	15 219	3.21	1.93	390	169	23.61	-1.62
Ethiopia	5 529	6 971	5.10	0.91	1 350	1 959	5.98	9.49	0	0	..	..
Nigeria	65	67	-4.03	0.40	5 722	8 158	4.31	2.86	1	1	-7.68	-0.64
South Africa	1 971	2 368	1.44	1.80	1 688	1 862	0.39	-0.23	87	47	-13.32	-4.69
ASIA	339 064	374 434	1.00	0.81	99 155	114 538	4.39	1.49	17 122	22 261	-0.76	-0.09
China ²	134 307	135 740	0.98	0.15	8 599	7 916	12.94	-0.42	265	219	-2.14	1.48
India	107 017	124 602	1.95	1.30	3	5	-24.63	0.27	3 606	5 500	-9.73	-2.53
Indonesia	0	0	..	..	10 592	12 523	5.59	1.58	72	63	-3.24	-1.56
Iran	12 500	13 001	3.25	0.31	3 595	5 380	-15.36	3.24	50	51	4.92	-0.33
Japan	1 010	1 067	1.94	0.25	5 537	5 493	-1.27	-0.09	0	0	..	..
Kazakhstan	12 508	16 455	0.73	1.89	1 200	1 348	79.47	-1.87	7 187	10 792	1.06	1.91
Korea	21	23	-2.42	0.73	3 910	4 647	-1.53	0.92	50	55	0.09	0.70
Malaysia	0	0	..	..	1 452	1 699	0.43	1.10	94	88	1.29	-1.08
Pakistan	25 633	30 781	0.83	1.28	1 853	2 296	10.70	13.30	47	45	-29.76	-1.06
Philippines	0	0	..	..	6 125	7 588	6.82	1.76	47	41	388.49	-1.73
Saudi Arabia	402	377	-7.37	-0.12	3 142	3 975	1.80	1.25	0	0	..	..
Thailand	1	1	-2.28	0.22	3 218	3 812	3.47	1.10	20	11	5.78	-1.09
Türkiye	19 067	22 590	-1.19	1.05	9 557	8 447	11.01	0.68	4 167	4 256	4.15	-0.68
Viet Nam	0	0	..	..	3 693	4 781	8.82	1.99	46	37	-9.01	-1.95
OCEANIA	28 479	30 707	1.51	0.71	1 133	1 065	3.21	0.53	19 497	20 976	-0.38	0.57
Australia	28 054	30 220	1.53	0.70	258	28	23.60	-0.84	19 497	20 976	-0.38	0.57
New Zealand	425	487	-0.76	1.32	474	500	0.17	0.65	0	0	..	..
DEVELOPED COUNTRIES	396 516	425 227	1.25	0.78	29 843	30 782	-0.15	0.26	163 767	186 525	2.85	1.87
DEVELOPING COUNTRIES	373 185	414 834	1.41	0.80	155 513	187 121	3.28	1.84	26 054	31 378	4.17	0.11
LEAST DEVELOPED COUNTRIES (LDC)	9 092	10 191	-0.65	1.11	19 091	26 340	5.89	2.73	157	120	-2.30	-1.94
OECD³	280 642	291 976	-0.37	0.24	39 292	41 653	1.00	0.86	106 588	110 808	0.11	0.94
BRICS	328 145	362 632	2.53	0.92	16 644	16 895	3.49	-0.29	38 673	54 196	8.57	1.81

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.13.2. Wheat projections: Consumption, food

Marketing year

	CONSUMPTION (kt)		Growth (%) ⁴		FOOD (kt)		Growth (%) ⁴		FOOD (kg/cap)		Growth (%) ⁴	
	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	756 649	838 667	1.20	0.79	524 843	581 412	1.21	0.88	67.7	67.8	0.09	-0.02
NORTH AMERICA	39 236	41 056	-1.48	0.43	29 160	30 262	0.25	0.38	79.1	77.1	-0.43	-0.19
Canada	8 609	9 992	-0.12	1.30	2 996	3 198	1.27	0.71	79.4	77.8	0.30	-0.06
United States	30 627	31 065	-1.82	0.17	26 164	27 064	0.14	0.34	79.0	77.0	-0.51	-0.20
LATIN AMERICA	40 431	46 192	1.38	1.02	35 221	39 516	0.91	1.00	54.0	55.8	-0.07	0.27
Argentina	5 961	6 564	1.28	0.91	5 360	5 958	1.05	1.00	118.6	120.6	0.06	0.20
Brazil	12 376	13 564	1.51	0.94	11 460	12 674	1.10	0.96	53.9	56.4	0.29	0.49
Chile	2 546	2 732	1.60	0.40	2 068	2 129	1.32	0.19	108.3	109.0	0.13	0.03
Colombia	1 904	2 115	3.14	0.77	1 772	1 941	2.83	0.65	34.9	36.2	1.54	0.18
Mexico	7 240	8 544	0.79	0.97	6 549	7 434	1.52	1.14	50.8	52.4	0.34	0.29
Paraguay	519	635	1.30	1.55	368	415	1.39	1.05	51.6	51.7	0.07	0.01
Peru	2 340	2 927	2.42	1.38	1 975	2 214	1.56	1.00	59.9	61.0	0.12	0.15
EUROPE	176 763	178 216	0.10	-0.34	79 494	80 066	-0.01	0.02	106.2	108.1	-0.15	0.13
European Union ¹	103 568	99 875	-0.16	-0.59	49 198	50 131	0.12	0.18	110.5	113.6	0.01	0.27
United Kingdom	14 619	16 212	-0.01	0.61	6 076	6 856	-1.05	0.54	89.5	97.0	-1.67	0.19
Russia	41 911	44 947	2.05	-0.04	14 680	13 933	0.28	-0.49	100.6	97.5	0.12	-0.27
Ukraine	8 458	8 830	-4.33	-0.76	4 665	4 332	-0.96	-0.70	106.7	106.7	-0.46	-0.01
AFRICA	78 969	96 246	2.21	1.81	68 634	83 955	2.60	1.80	51.7	49.1	0.03	-0.49
Egypt	21 440	25 431	1.20	1.68	19 340	23 222	2.19	1.63	189.0	189.3	0.08	0.02
Ethiopia	6 895	8 890	5.36	2.25	5 712	7 355	5.52	2.21	49.7	49.7	2.74	-0.07
Nigeria	5 612	8 198	3.84	2.83	5 162	7 328	4.03	2.86	25.0	27.2	1.35	0.42
South Africa	3 575	4 171	1.63	0.94	3 319	3 696	1.09	0.97	56.0	55.5	-0.33	-0.05
ASIA	411 467	466 166	1.75	1.07	309 432	344 251	1.38	0.90	67.1	69.2	0.43	0.24
China ²	136 469	144 112	1.50	0.31	93 900	96 206	0.66	0.11	65.2	65.7	0.18	-0.01
India	101 080	118 425	1.90	1.51	83 641	94 601	1.43	1.08	60.6	62.5	0.36	0.26
Indonesia	10 536	12 454	5.68	1.60	7 269	8 744	2.63	1.36	26.6	29.0	1.42	0.50
Iran	15 933	18 216	2.00	1.08	14 200	16 097	1.40	1.08	169.1	172.4	0.06	0.17
Japan	6 547	6 561	-0.96	-0.04	5 201	5 201	-0.33	-0.10	41.1	43.3	-0.12	0.40
Kazakhstan	6 255	6 990	-1.46	0.99	2 667	2 959	1.16	0.89	142.1	142.2	-0.25	0.01
Korea	3 893	4 609	-1.93	0.93	2 449	2 533	0.45	0.28	47.8	49.6	0.19	0.34
Malaysia	1 382	1 609	1.04	1.25	1 055	1 199	1.91	1.08	32.6	32.9	0.55	0.05
Pakistan	26 873	33 007	1.56	1.72	26 029	31 608	2.05	1.69	117.8	118.4	-0.03	-0.01
Philippines	6 245	7 540	6.60	1.79	2 706	3 369	2.67	1.82	24.7	26.9	1.17	0.64
Saudi Arabia	3 697	4 316	1.81	1.28	3 417	3 924	2.07	1.16	98.2	98.8	-0.06	0.02
Thailand	3 366	3 796	3.55	1.32	1 118	1 065	0.74	0.18	16.0	15.2	0.39	0.15
Türkiye	24 056	26 645	1.59	0.97	17 959	19 245	1.72	0.56	213.1	214.6	0.22	0.03
Viet Nam	3 531	4 738	5.89	2.03	1 684	2 141	3.19	1.73	17.3	20.5	2.16	1.10
OCEANIA	9 782	10 790	3.03	0.76	2 903	3 362	1.50	1.34	69.5	70.8	0.08	0.19
Australia	8 461	9 277	3.49	0.67	2 133	2 425	1.44	1.16	83.7	85.3	0.11	0.19
New Zealand	898	986	-0.79	0.96	426	503	1.28	1.49	88.4	96.6	0.34	0.81
DEVELOPED COUNTRIES	261 367	269 114	-0.09	-0.03	134 278	138 528	0.22	0.25	93.7	94.5	-0.19	0.07
DEVELOPING COUNTRIES	495 281	569 552	1.94	1.21	390 565	442 884	1.58	1.08	61.8	62.3	0.28	0.03
LEAST DEVELOPED COUNTRIES (LDC)	28 422	36 319	3.91	2.27	24 106	30 723	3.70	2.30	27.1	27.3	1.32	0.13
OECD³	216 487	222 499	-0.09	0.07	125 254	131 180	0.46	0.38	89.7	91.1	-0.08	0.12
BRICS	295 411	325 219	1.72	0.70	207 000	221 110	0.97	0.54	64.0	64.8	0.22	0.09

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	1 173 293	1 334 990	2.31	1.13	181 298	200 817	6.27	1.36	174 013	195 817	5.62	1.40
NORTH AMERICA	376 442	420 118	1.85	0.58	3 160	3 474	2.35	0.94	60 693	58 893	8.18	-0.35
Canada	13 650	14 478	0.66	0.83	2 123	2 402	17.17	1.61	1 159	1 676	-0.77	1.61
United States	362 791	405 640	1.90	0.57	1 037	1 072	-7.76	-0.42	59 534	57 217	8.64	-0.40
LATIN AMERICA	203 149	238 523	3.97	1.33	40 709	51 056	6.96	1.95	67 133	84 297	5.46	2.10
Argentina	60 433	66 212	8.79	1.14	4	4	0.19	-0.03	38 216	38 903	10.67	0.76
Brazil	98 837	123 478	3.09	1.64	2 372	2 347	15.50	-0.80	26 359	41 927	1.04	3.46
Chile	719	694	-8.25	-1.80	2 720	2 801	11.24	1.63	20	20	-12.74	-0.89
Colombia	1 382	1 403	-3.54	0.10	6 018	8 343	6.94	2.51	1	1	-10.76	-0.19
Mexico	27 268	29 516	2.61	0.67	16 628	20 592	9.29	1.72	893	1 345	5.77	3.09
Paraguay	4 629	5 835	1.48	2.47	13	10	2.62	0.05	1 622	2 079	-6.42	2.96
Peru	1 541	1 739	-0.57	-0.02	3 805	5 459	7.38	3.44	10	10	3.55	-0.43
EUROPE	130 363	132 920	2.53	1.44	18 502	22 258	4.51	0.92	35 750	41 374	4.71	3.28
European Union ¹	68 052	68 270	0.75	0.09	15 820	20 052	5.17	1.05	4 421	3 907	2.25	0.89
United Kingdom	0	0	..	..	1 832	1 489	2.24	-0.12	0	0	..	..
Russia	14 387	18 273	4.48	2.22	45	125	-0.03	4.86	3 644	7 193	3.05	3.35
Ukraine	36 013	32 808	5.21	4.60	30	39	-5.14	-0.42	24 596	25 670	5.32	3.29
AFRICA	93 349	120 460	3.41	2.24	23 011	29 047	3.75	2.39	5 076	6 302	2.96	2.66
Egypt	6 730	7 947	-2.05	0.59	10 076	13 668	5.79	2.93	0	0	..	..
Ethiopia	10 071	11 730	6.15	2.04	0	0	-76.48	..	900	13	2.32	-32.12
Nigeria	12 482	14 622	4.80	1.30	104	441	-12.81	49.55	1	0	2.12	-20.46
South Africa	16 792	19 589	4.17	1.23	0	0	-81.36	..	3 145	3 781	8.79	1.53
ASIA	369 455	422 350	1.68	1.18	95 730	94 875	7.25	0.89	5 302	4 891	-0.47	-2.44
China ²	264 813	297 199	1.22	1.09	19 869	6 804	25.54	-5.27	22	53	-4.21	13.32
India	30 947	37 020	4.23	1.42	171	40	24.92	-2.10	2 077	1 897	-6.38	-4.52
Indonesia	22 801	27 401	2.66	1.40	912	1 367	-14.84	7.60	15	15	-6.17	-0.73
Iran	1 225	1 284	-5.92	-0.14	9 461	10 935	9.95	1.34	0	0	..	..
Japan	0	0	..	..	15 575	15 151	0.79	0.04	0	0	..	..
Kazakhstan	994	1 602	7.95	3.24	5	4	51.78	0.41	67	571	29.30	5.93
Korea	76	71	-0.97	-0.65	11 467	11 179	2.71	-0.19	0	0	..	..
Malaysia	85	92	1.74	0.13	3 839	4 781	1.57	1.90	11	8	5.04	-1.86
Pakistan	8 016	9 185	7.77	1.24	25	794	13.81	50.38	63	1	-14.35	-32.72
Philippines	8 099	9 543	1.16	1.36	504	931	10.60	9.04	0	0	..	..
Saudi Arabia	87	92	-0.55	-0.31	3 739	4 773	5.54	3.05	0	0	..	..
Thailand	4 639	5 603	-0.32	1.17	1 684	1 969	41.93	3.08	28	24	-26.26	-0.37
Türkiye	6 433	7 787	2.34	1.88	2 605	2 646	6.80	1.37	382	229	19.89	-1.31
Viet Nam	4 582	4 625	-1.61	-0.11	11 498	16 848	19.73	3.18	447	196	44.11	-3.08
OCEANIA	536	619	-3.25	0.57	185	106	42.46	0.26	60	59	-5.72	-2.20
Australia	323	383	-4.66	0.66	4	4	255.58	0.00	57	56	-5.20	-2.44
New Zealand	200	220	-0.89	0.42	180	100	48.72	0.06	2	4	-14.31	3.10
DEVELOPED COUNTRIES	527 083	577 173	2.07	0.80	39 389	43 330	2.31	0.69	99 715	104 678	6.85	1.03
DEVELOPING COUNTRIES	646 210	757 817	2.54	1.38	141 909	157 487	7.63	1.55	74 298	91 139	4.63	1.84
LEAST DEVELOPED COUNTRIES (LDC)	46 021	64 794	3.53	2.95	4 208	4 341	13.25	-0.16	3 007	4 223	2.91	2.48
OECD³	481 136	528 714	1.67	0.53	78 031	88 066	4.52	0.99	66 513	64 498	7.62	-0.22
BRICS	425 777	495 559	2.03	1.30	22 457	9 316	21.40	-4.27	35 247	54 851	1.29	2.89

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	1 181 733	1 336 113	2.85	1.03	690 227	806 294	3.37	1.31	18.9	20.3	0.64	0.63
NORTH AMERICA	324 017	363 802	1.37	0.78	146 061	172 997	1.70	1.19	17.2	17.3	-0.40	-0.20
Canada	14 557	15 194	2.66	0.85	9 127	9 227	4.10	0.99	27.2	29.2	-2.61	-0.76
United States	309 459	348 608	1.31	0.77	136 934	163 770	1.55	1.21	16.1	15.9	-0.02	-0.10
LATIN AMERICA	177 671	204 805	4.55	1.22	117 036	137 699	4.69	1.49	50.4	52.3	0.05	0.34
Argentina	22 107	27 226	6.13	1.73	17 277	20 604	8.81	1.94	36.4	37.5	1.40	0.20
Brazil	74 711	83 630	4.55	0.87	49 293	57 832	2.57	1.30	24.5	24.7	0.12	0.12
Chile	3 454	3 473	4.07	0.90	2 987	3 010	4.86	0.99	21.3	21.3	0.34	-0.02
Colombia	7 502	9 734	4.50	2.20	6 531	8 680	5.08	2.41	18.1	18.5	0.32	0.10
Mexico	43 603	48 712	5.13	1.03	24 673	26 891	8.84	0.95	136.1	141.7	0.15	0.38
Paraguay	3 231	3 751	12.75	2.14	655	893	5.34	3.24	52.0	50.7	-1.10	0.02
Peru	5 388	7 181	4.84	2.57	4 732	6 523	5.55	2.75	15.5	15.8	1.13	0.06
EUROPE	108 944	113 709	1.12	0.33	86 350	89 924	1.30	0.67	8.5	8.7	0.19	0.27
European Union ¹	82 013	84 407	1.37	0.26	65 050	66 705	1.56	0.59	10.6	11.0	0.09	0.35
United Kingdom	1 860	1 489	4.71	-0.12	1 245	807	7.27	-1.40	5.7	5.4	2.00	-0.32
Russia	9 921	11 168	3.07	1.44	8 334	9 757	3.94	1.43	1.4	1.5	2.33	0.99
Ukraine	6 687	7 230	-3.69	-1.08	4 961	5 179	-4.18	0.18	10.8	11.1	-0.14	0.26
AFRICA	109 801	142 850	3.45	2.24	37 818	47 622	3.38	2.11	42.9	44.8	0.34	0.31
Egypt	16 773	21 577	1.99	1.99	11 956	16 234	2.04	2.32	41.5	39.7	-0.50	-0.39
Ethiopia	8 971	11 597	6.17	2.31	1 683	2 066	7.93	2.22	50.6	53.8	2.66	0.38
Nigeria	12 685	15 059	4.60	1.67	2 733	3 145	9.66	1.00	35.0	34.6	0.29	-0.13
South Africa	12 965	15 740	2.09	1.16	5 473	6 596	0.67	1.61	89.1	87.7	-0.08	-0.18
ASIA	460 638	510 281	3.67	0.99	302 466	357 566	4.41	1.37	9.5	9.4	0.42	-0.01
China ²	286 332	302 187	3.55	0.62	181 333	207 940	3.86	1.05	10.0	10.0	0.43	0.01
India	28 656	35 011	5.60	1.86	14 359	18 953	7.41	2.52	6.1	5.7	-0.21	-0.53
Indonesia	23 679	28 741	0.96	1.62	12 120	15 960	7.51	2.34	29.3	29.6	0.09	0.12
Iran	10 519	12 205	7.10	1.17	10 294	11 949	7.29	1.17	0.9	0.9	-1.32	0.03
Japan	15 375	15 158	0.80	-0.17	12 438	12 614	1.81	-0.04	0.8	0.9	0.58	0.51
Kazakhstan	815	1 033	5.52	1.89	649	826	5.82	1.91	0.5	0.5	-1.06	-0.01
Korea	11 338	11 245	2.69	-0.32	9 100	8 925	3.20	-0.41	2.0	2.0	0.92	0.09
Malaysia	3 930	4 860	1.59	1.95	3 672	4 562	1.32	2.01	2.0	2.0	3.04	0.00
Pakistan	7 978	9 962	8.10	2.27	4 483	5 852	12.63	2.58	10.7	10.9	4.89	0.51
Philippines	8 676	10 469	1.64	1.84	5 733	7 283	0.98	2.34	18.8	18.0	0.76	-0.26
Saudi Arabia	3 792	4 846	5.44	3.15	3 586	4 559	5.25	3.20	0.2	0.2	-2.09	0.01
Thailand	6 311	7 544	5.05	1.62	5 939	7 154	5.45	1.72	1.2	1.2	-0.34	-0.23
Türkiye	8 723	10 177	3.99	1.70	6 783	8 263	5.14	2.13	15.9	15.8	-0.21	-0.05
Viet Nam	15 786	21 270	9.28	2.44	12 111	17 173	8.72	2.64	8.1	8.1	3.02	0.07
OCEANIA	662	666	0.64	0.80	497	486	2.87	0.96	2.3	2.0	-0.94	-1.06
Australia	270	332	-4.15	1.28	129	181	-3.71	2.22	3.1	2.7	-0.95	-1.19
New Zealand	378	316	5.82	0.28	365	302	6.41	0.27	1.5	1.5	-0.93	0.06
DEVELOPED COUNTRIES	466 602	514 750	1.33	0.67	254 862	287 585	1.58	0.99	12.8	13.3	0.18	0.25
DEVELOPING COUNTRIES	715 131	821 362	3.95	1.27	435 365	518 709	4.54	1.49	20.2	21.7	0.65	0.63
LEAST DEVELOPED COUNTRIES (LDC)	46 927	64 894	4.15	2.73	12 457	17 455	7.72	2.65	30.0	33.9	0.48	1.01
OECD³	500 723	551 286	1.78	0.71	277 385	311 631	2.42	0.99	23.0	24.6	0.41	0.57
BRICS	412 584	447 736	3.80	0.79	258 791	301 077	3.69	1.21	10.3	10.2	0.22	-0.09

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	307 094	335 422	0.67	0.91	44 301	49 006	2.49	1.23	47 927	52 632	1.78	1.14
NORTH AMERICA	27 761	29 868	-0.03	0.08	1 501	1 707	-4.60	-0.99	11 632	11 884	2.20	-0.01
Canada	13 807	15 359	0.97	0.36	106	62	6.51	-0.19	5 472	6 182	1.99	1.31
United States	13 954	14 508	-0.91	-0.20	1 396	1 645	-5.08	-1.02	6 159	5 702	2.81	-1.26
LATIN AMERICA	20 129	22 829	-1.55	0.80	1 978	1 712	-6.28	1.90	4 123	4 450	-2.36	1.05
Argentina	7 357	8 385	-2.31	0.79	1	1	0.04	0.00	3 962	4 228	-2.33	1.40
Brazil	3 752	4 797	3.74	1.92	530	555	2.85	2.04	6	3	-18.72	-0.04
Chile	790	815	0.11	-0.46	64	56	-22.27	11.89	30	48	-9.03	-8.38
Colombia	21	19	-10.22	0.16	327	389	-8.46	1.37	0	0	..	..
Mexico	5 528	5 793	-4.65	0.37	790	448	-5.56	0.77	11	36	24.33	-0.39
Paraguay	108	129	-0.02	1.35	0	2	..	125.62	3	0	-2.89	..
Peru	264	313	-0.15	0.39	154	162	6.21	2.45	0	0	..	..
EUROPE	138 686	136 780	0.59	0.47	2 769	2 331	3.11	-0.17	22 428	26 106	3.29	2.28
European Union ¹	86 715	83 547	0.41	0.23	1 848	1 525	7.00	-0.04	10 649	12 338	0.63	1.48
United Kingdom	8 828	8 404	2.27	-0.22	158	205	-6.37	1.84	1 745	1 655	8.52	-0.59
Russia	26 615	27 531	1.38	0.52	109	131	-14.07	1.29	4 516	6 359	3.82	1.76
Ukraine	10 403	10 205	0.69	2.70	23	17	-1.86	-1.45	5 280	5 109	7.11	6.50
AFRICA	55 347	70 908	1.91	1.90	4 757	5 427	5.59	4.74	1 055	798	-1.23	-8.20
Egypt	982	1 188	0.35	1.70	76	46	-12.23	6.08	0	0	..	..
Ethiopia	13 690	17 713	3.03	2.06	0	0	-78.36	..	435	79	3.57	-21.57
Nigeria	8 656	10 732	2.54	1.85	10	293	0.00	56.31	6	0	0.00	-38.04
South Africa	659	688	3.66	0.98	80	35	-12.05	-6.10	6	8	-17.59	1.35
ASIA	49 861	60 600	0.27	1.35	33 188	37 694	3.48	0.98	1 301	2 025	2.13	5.00
China ²	9 160	9 447	-0.10	0.39	16 198	19 059	11.64	0.79	73	83	-2.72	1.92
India	18 326	23 399	-0.24	1.48	121	91	47.00	2.53	188	324	-15.34	-3.33
Indonesia	0	0	..	..	73	78	-4.67	0.63	0	0	..	..
Iran	2 680	3 094	-1.82	1.35	2 542	2 812	10.90	0.00	0	0	..	..
Japan	228	210	0.49	-0.42	2 241	1 902	-3.72	-1.20	0	0	..	..
Kazakhstan	3 647	4 558	5.94	3.39	54	39	20.21	2.85	959	1 450	13.47	9.86
Korea	194	167	2.94	-0.59	110	111	-0.53	0.02	0	0	..	..
Malaysia	0	0	..	..	13	16	155.19	1.94	0	0	..	..
Pakistan	523	574	0.79	0.84	134	242	19.27	5.96	0	0	..	..
Philippines	1	1	-3.38	1.16	41	52	2.22	2.45	0	0	..	..
Saudi Arabia	205	207	4.18	-0.31	6 463	7 383	-4.94	1.82	0	0	..	..
Thailand	183	217	0.73	1.17	870	1 064	65.33	1.53	2	2	0.13	-0.27
Türkiye	8 028	10 095	-0.32	1.44	1 461	2 019	24.62	4.56	72	159	42.04	-0.77
Viet Nam	3	4	9.59	0.89	100	124	4.84	1.98	0	0	..	..
OCEANIA	15 310	14 436	2.81	0.62	107	135	1.06	1.03	7 389	7 368	0.45	0.14
Australia	14 929	14 100	2.98	0.63	0	0	..	..	7 389	7 368	0.46	0.14
New Zealand	379	336	-2.53	0.34	22	33	-1.64	0.92	0	0	..	..
DEVELOPED COUNTRIES	188 698	189 457	0.81	0.49	7 308	6 931	-1.24	-0.42	42 415	46 817	2.73	1.46
DEVELOPING COUNTRIES	118 396	145 965	0.44	1.47	36 993	42 075	3.44	1.53	5 513	5 816	-2.80	-1.09
LEAST DEVELOPED COUNTRIES (LDC)	25 828	32 623	1.27	2.07	1 066	962	5.64	3.74	588	695	-2.68	-4.35
OECD³	154 494	154 438	0.36	0.28	9 317	9 355	-1.09	0.66	31 532	33 492	1.60	0.49
BRICS	58 513	65 862	0.74	0.93	17 037	19 871	10.00	0.81	4 789	6 778	1.67	1.43

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	299 151	330 752	0.70	0.92	169 553	181 634	0.49	0.74	10.4	11.4	0.03	0.69
NORTH AMERICA	18 422	19 564	-0.73	0.49	11 989	12 528	-0.58	0.68	4.9	5.0	2.22	-0.15
Canada	8 693	9 211	1.52	0.45	7 660	7 785	0.63	0.53	12.4	12.2	5.73	-0.73
United States	9 729	10 353	-2.44	0.53	4 329	4 743	-2.60	0.96	4.1	4.1	1.16	0.01
LATIN AMERICA	17 991	20 073	-2.12	0.98	12 079	13 443	-3.84	0.96	3.5	3.6	-1.57	0.23
Argentina	3 390	4 146	-2.63	0.72	1 893	2 642	-4.32	0.94	14.3	13.6	-3.21	-0.43
Brazil	4 275	5 348	3.85	1.93	2 813	3 528	3.95	1.70	1.9	2.3	2.19	1.84
Chile	835	822	-4.27	0.88	523	474	-7.39	0.77	3.9	3.9	1.13	-0.03
Colombia	347	409	-8.61	1.34	17	20	-30.76	2.39	0.5	0.5	-12.38	0.12
Mexico	6 274	6 204	-5.24	0.41	5 552	5 419	-5.77	0.37	5.6	5.5	-1.35	-0.12
Paraguay	104	131	0.69	1.52	89	107	-0.39	1.36	0.0	0.0	-2.19	-0.41
Peru	422	475	1.89	1.08	5	7	0.75	2.81	6.7	7.0	0.60	0.08
EUROPE	115 100	112 870	-0.07	-0.05	84 690	82 992	-0.06	0.13	13.8	14.0	-0.72	0.01
European Union ¹	74 964	72 682	0.07	-0.18	56 728	55 342	-0.05	0.09	10.4	10.9	-0.18	0.46
United Kingdom	7 161	6 959	1.67	-0.12	4 256	3 517	3.49	-1.28	35.3	35.0	-0.36	-0.05
Russia	21 520	21 271	0.34	0.14	15 367	15 350	0.33	0.32	12.7	12.2	-2.22	-1.07
Ukraine	5 091	5 085	-3.36	0.22	3 364	3 408	-3.69	0.46	17.0	15.8	-2.19	-0.74
AFRICA	59 069	74 994	2.24	2.25	8 773	10 477	1.59	2.30	31.7	32.8	0.01	0.10
Egypt	1 057	1 230	0.02	1.90	702	845	0.00	2.44	2.9	2.6	-2.07	-0.99
Ethiopia	13 396	17 379	3.60	2.56	540	595	-0.71	2.88	93.5	98.1	0.98	0.54
Nigeria	8 843	11 008	1.99	2.24	333	220	-2.87	0.77	39.1	38.4	0.02	-0.14
South Africa	730	711	2.36	0.93	96	132	-4.28	1.82	2.5	2.3	-1.20	-0.95
ASIA	81 156	96 053	1.60	1.28	46 441	56 957	2.87	1.47	5.1	5.3	-1.24	0.19
China ²	24 931	28 459	5.25	0.65	13 730	16 656	15.53	0.68	3.2	3.0	-0.44	-0.55
India	18 259	23 168	0.16	1.62	1 805	3 192	14.42	3.05	11.4	12.2	-1.66	0.41
Indonesia	73	78	-4.67	0.63	0	0	0.00	0.00	0.3	0.3	-5.80	-0.24
Iran	5 089	5 892	3.55	1.07	4 911	5 691	3.70	1.08	0.3	0.3	-1.32	-0.99
Japan	2 472	2 122	-3.75	-1.15	1 430	1 379	-7.40	-1.04	1.8	1.9	-0.20	0.41
Kazakhstan	2 723	3 143	3.96	1.49	1 720	2 094	3.14	2.00	2.5	2.2	-1.39	-0.75
Korea	303	278	1.60	-0.36	62	60	-0.76	0.00	4.7	4.3	2.01	-0.40
Malaysia	13	16	145.20	2.04	12	15	167.51	2.08	0.0	0.0	160.05	0.01
Pakistan	656	816	2.62	2.11	196	277	0.12	3.40	1.9	1.8	2.27	-0.19
Philippines	42	53	2.12	2.43	30	39	0.86	2.60	0.0	0.0	1.76	0.54
Saudi Arabia	6 868	7 546	-3.59	2.13	6 672	7 332	-3.69	2.17	2.6	2.3	-2.09	-0.99
Thailand	1 040	1 279	25.68	1.53	687	896	39.31	1.76	1.4	1.4	-0.31	0.10
Türkiye	9 191	11 826	1.34	2.13	8 141	10 644	1.65	2.22	3.5	3.2	-1.48	-0.75
Viet Nam	103	128	4.95	1.95	0	0	0.00	0.00	0.0	0.0	1.20	0.97
OCEANIA	7 413	7 198	3.20	-0.04	5 581	5 236	3.17	-0.11	6.7	7.0	-0.49	0.07
Australia	6 925	6 727	3.66	-0.09	5 220	4 907	3.72	-0.15	8.0	8.5	-0.52	0.02
New Zealand	401	369	-2.39	0.39	343	311	-2.76	0.47	1.7	1.5	-0.93	-0.65
DEVELOPED COUNTRIES	149 692	149 246	0.07	0.09	108 020	107 634	0.04	0.26	9.0	8.9	-0.51	-0.18
DEVELOPING COUNTRIES	149 459	181 506	1.37	1.65	61 533	74 000	1.37	1.48	10.7	11.9	0.11	0.80
LEAST DEVELOPED COUNTRIES (LDC)	25 947	32 684	1.60	2.19	1 746	1 592	-0.88	2.77	22.2	23.8	-0.13	0.12
OECD³	129 196	130 000	-0.20	0.15	95 949	96 423	-0.36	0.32	7.7	7.8	-0.05	0.09
BRICS	69 715	78 958	1.96	0.87	33 810	38 857	4.54	0.80	7.0	7.4	-1.30	0.30

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	516 305	584 380	0.82	1.09	46 598	64 482	2.84	2.45	48 763	64 482	1.88	2.45
NORTH AMERICA	6 360	6 738	0.13	0.31	1 496	1 670	4.35	1.83	2 904	2 855	-1.48	0.18
Canada	0	0	..	..	418	477	1.66	1.41	0	0	..	..
United States	6 360	6 738	0.13	0.31	1 078	1 194	5.58	2.00	2 904	2 855	-1.48	0.18
LATIN AMERICA	18 595	19 117	0.38	0.08	4 512	5 054	2.28	2.05	3 574	3 116	1.09	-0.72
Argentina	864	950	-2.75	0.19	9	10	6.13	-0.15	372	295	-4.77	-2.84
Brazil	7 575	7 155	-0.57	-0.41	793	862	3.05	0.86	1 000	745	1.92	-1.67
Chile	110	112	1.90	1.09	174	189	5.58	-0.04	1	0	-12.88	..
Colombia	1 937	1 992	5.43	0.01	144	250	-13.50	7.43	3	1	155.87	-1.97
Mexico	291	211	6.22	-2.63	740	913	1.71	2.79	10	0	18.50	..
Paraguay	803	1 039	10.11	1.96	1	0	-5.16	..	710	935	11.39	2.10
Peru	2 290	2 605	1.74	0.24	281	279	3.59	10.84	70	23	28.12	-6.16
EUROPE	2 839	2 860	-0.38	0.40	2 702	3 047	2.48	1.07	684	880	-0.55	3.77
European Union ¹	1 686	1 610	-0.78	-0.38	1 462	1 803	4.35	1.95	468	657	2.08	3.54
United Kingdom	0	0	..	..	675	686	0.42	0.13	38	23	-0.58	-4.73
Russia	1 103	1 196	0.91	1.49	236	237	0.44	-0.37	163	187	-5.34	6.87
Ukraine	37	39	-9.05	1.65	95	84	3.69	-1.11	7	5	-2.34	1.13
AFRICA	25 094	29 411	2.76	1.47	17 295	31 737	3.39	5.17	451	316	-4.90	-3.52
Egypt	4 439	5 187	-2.45	1.82	327	542	48.10	2.94	0	0	-85.22	..
Ethiopia	113	127	6.36	1.13	580	1 220	16.47	4.36	0	0	..	..
Nigeria	4 990	6 085	4.78	1.81	2 173	5 220	-2.45	6.57	0	0	..	..
South Africa	2	2	0.00	1.54	886	1 099	-2.03	1.45	0	0	..	..
ASIA	463 132	525 863	0.78	1.13	19 797	22 071	2.36	-0.21	41 086	57 213	2.56	2.80
China ²	147 198	156 028	0.52	0.42	2 814	2 999	2.20	-0.41	2 403	1 515	31.89	-2.62
India	123 160	149 731	2.25	1.79	4	2	16.25	0.93	17 207	25 763	6.07	3.85
Indonesia	34 927	36 475	-0.90	0.57	508	823	-8.15	-2.43	1	3	1.80	0.75
Iran	2 456	2 330	6.12	1.87	1 151	1 605	-3.42	-0.33	2	1	19.19	0.02
Japan	7 378	6 181	-0.88	-1.58	754	719	-0.39	-0.33	99	123	-0.62	3.50
Kazakhstan	360	525	5.67	4.00	12	9	-5.19	-7.81	101	223	9.34	8.77
Korea	3 683	3 393	-1.69	-1.21	407	428	-0.20	0.98	54	50	67.62	-0.39
Malaysia	1 539	1 664	-1.41	0.69	1 170	1 409	2.05	1.30	57	78	30.31	-0.97
Pakistan	8 224	9 914	3.86	0.95	6	4	-27.88	0.08	4 080	4 572	1.72	-0.32
Philippines	12 738	15 497	0.82	1.75	2 573	2 830	11.31	1.06	0	0	-20.58	..
Saudi Arabia	0	0	..	..	1 325	1 541	-0.07	1.54	0	0	..	..
Thailand	20 644	25 369	-1.33	1.64	227	180	-8.31	3.27	6 300	10 721	-2.92	3.04
Türkiye	596	701	1.66	1.13	283	250	0.57	-0.63	25	29	-3.14	0.52
Viet Nam	28 196	32 094	-0.26	1.39	1 049	1 634	7.84	-1.89	6 758	8 006	-2.94	1.93
OCEANIA	283	392	-17.67	2.07	796	901	5.57	0.79	64	100	-26.23	4.96
Australia	271	378	-18.46	2.16	269	234	8.10	-2.00	63	99	-26.39	5.07
New Zealand	0	0	..	..	55	59	3.16	1.50	0	0	..	..
DEVELOPED COUNTRIES	17 614	17 170	-0.77	-0.23	6 477	7 169	1.85	0.98	3 854	4 181	-2.50	1.37
DEVELOPING COUNTRIES	498 691	567 210	0.88	1.14	40 121	57 312	3.00	2.64	44 909	60 300	2.34	2.52
LEAST DEVELOPED COUNTRIES (LDC)	78 817	93 483	1.36	1.50	11 225	19 266	5.75	4.47	4 263	6 267	5.36	3.21
OECD³	22 313	21 316	-0.49	-0.57	6 728	7 506	2.03	1.34	3 668	3 842	-2.24	0.84
BRICS	279 039	314 112	1.22	1.04	4 733	5 198	1.18	0.16	20 772	28 210	7.18	3.22

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	511 385	583 716	1.08	1.13	54.1	55.5	-0.04	0.17
NORTH AMERICA	5 076	5 523	2.61	0.98	13.8	14.1	1.92	0.41
Canada	418	477	1.66	1.41	11.1	11.6	0.69	0.64
United States	4 658	5 047	2.70	0.94	14.1	14.4	2.04	0.40
LATIN AMERICA	19 566	21 031	0.41	0.61	27.2	27.0	-0.43	-0.12
Argentina	558	664	1.82	1.92	11.1	12.8	2.11	0.99
Brazil	7 380	7 272	-1.19	-0.14	31.9	29.6	-1.80	-0.62
Chile	287	300	4.57	0.36	12.4	12.2	3.04	-0.01
Colombia	2 059	2 237	3.93	0.54	37.2	38.0	2.15	0.02
Mexico	918	1 123	0.49	0.96	7.1	7.9	-0.68	0.11
Paraguay	85	103	2.26	1.14	6.2	6.5	-0.06	0.16
Peru	2 521	2 856	2.00	1.05	68.3	70.5	0.53	0.26
EUROPE	4 848	5 025	1.29	0.28	6.4	6.7	1.17	0.39
European Union ¹	2 690	2 756	1.31	0.21	6.0	6.2	1.19	0.31
United Kingdom	636	663	0.44	0.35	9.4	9.4	-0.19	-0.01
Russia	1 158	1 243	2.31	0.50	7.9	8.7	2.15	0.72
Ukraine	125	118	-1.36	-0.37	2.8	2.8	-0.72	0.27
AFRICA	41 818	60 549	3.30	3.27	27.3	31.4	0.84	1.20
Egypt	4 663	5 711	0.87	1.83	41.0	42.4	-0.71	0.26
Ethiopia	660	1 325	14.59	4.09	5.1	8.3	10.72	2.02
Nigeria	7 296	11 264	1.91	3.78	30.5	36.9	-0.72	1.52
South Africa	922	1 100	-0.96	1.46	15.2	16.3	-1.70	0.46
ASIA	439 040	490 397	0.89	0.92	76.9	78.7	-0.08	0.15
China ²	149 376	157 996	1.29	0.45	76.5	76.5	0.08	0.00
India	102 423	123 487	1.00	1.49	69.1	76.1	0.08	0.66
Indonesia	36 561	37 268	-0.78	0.45	123.5	115.3	-0.83	-0.48
Iran	3 695	3 930	3.25	0.91	38.5	38.0	1.52	0.01
Japan	7 238	6 879	-1.22	-0.28	51.4	51.9	-1.14	0.30
Kazakhstan	281	312	3.96	1.07	13.4	13.5	2.24	0.15
Korea	3 980	3 772	-1.12	-1.20	57.9	47.4	-1.91	-1.69
Malaysia	2 658	2 993	-0.07	1.03	76.5	76.3	-0.87	-0.02
Pakistan	3 896	5 312	5.10	2.21	14.4	16.3	2.49	0.66
Philippines	15 352	18 283	2.26	1.61	121.1	126.5	0.63	0.44
Saudi Arabia	1 244	1 533	-0.81	1.64	35.2	38.0	-2.84	0.51
Thailand	13 137	14 769	-0.52	0.64	102.1	104.2	0.41	0.06
Türkiye	848	921	1.74	0.55	9.5	9.8	0.55	-0.03
Viet Nam	22 450	25 681	0.92	0.99	148.4	145.7	-0.89	-0.11
OCEANIA	1 036	1 191	3.37	0.89	19.2	21.0	3.28	0.25
Australia	476	512	0.43	-0.33	10.8	12.6	2.08	-0.53
New Zealand	55	59	3.16	1.50	11.3	11.3	2.20	0.82
DEVELOPED COUNTRIES	19 605	20 226	0.58	0.36	12.9	13.1	0.25	0.24
DEVELOPING COUNTRIES	491 779	563 490	1.10	1.15	63.5	64.2	-0.18	0.05
LEAST DEVELOPED COUNTRIES (LDC)	85 987	106 148	1.68	1.90	76.6	75.6	-0.13	-0.17
OECD³	24 534	25 046	0.53	0.08	15.9	15.6	-0.04	-0.13
BRICS	261 259	291 097	1.10	0.87	66.2	69.2	0.02	0.31

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.17. Main policy assumptions for cereal markets

Marketing year

		Average 2019-21 ^{est}	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
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	mln EUR	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
Rice ⁵	mln EUR	55.6	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	42.0	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	4 164.5	3 447.2	3 447.2	3 447.2	3 447.2	3 447.2	3 447.2	3 447.2	3 447.2	3 447.2	3 447.2
Coarse grain tariff-quota ¹	kt	4 451.4	4 434.1	4 435.1	4 436.1	4 437.1	4 438.1	4 439.1	4 440.1	4 441.1	4 442.1	4 442.1
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	%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Maize tariff-quota	kt	9 893.3	11 280.0	11 280.0	11 280.0	11 280.0	11 280.0	11 280.0	11 280.0	11 280.0	11 280.0	11 280.0
In-quota tariff	%	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Out-of-quota tariff	%	328.0	328.0	328.0	328.0	328.0	328.0	328.0	328.0	328.0	328.0	328.0
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	%	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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
Out-of-quota tariff	%	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0
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
UNITED STATES												
ARC participation rate												
Wheat	%	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Coarse grains	%	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Wheat loan rate	USD/t	124.2	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	86.6	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

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

Marketing year

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
INDIA												
Minimum support price												
Rice	INR/t	21 042	19 206	20 006	20 736	21 426	22 102	22 799	23 481	24 148	24 800	25 437
Wheat	INR/t	18 299	22 624	22 057	22 282	22 703	23 294	23 940	24 624	25 293	25 948	26 605
Wheat tariff	%	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Rice tariff	%	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
RUSSIA												
Wheat export tax	%	11.0	29.5	20.7	16.2	15.5	15.3	16.2	16.7	17.2	17.8	18.3
Maize export tax	%	7.5	21.7	10.6	5.2	4.0	3.9	5.2	5.8	6.2	6.7	7.1
Other coarse grains export tax	%	9.6	29.4	20.0	15.3	14.0	13.5	14.7	15.4	16.1	16.7	17.2

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	353 031	411 059	2.91	0.99	160 482	178 801	5.97	0.72	158 486	178 801	4.86	0.72
NORTH AMERICA	116 964	138 210	2.96	0.85	801	1 044	-7.48	1.18	59 224	65 294	3.70	0.67
Canada	6 258	8 631	2.29	2.65	347	505	4.57	2.79	4 059	5 551	2.78	2.35
United States	110 706	129 579	3.00	0.74	454	539	-13.31	-0.14	55 165	59 744	3.77	0.52
LATIN AMERICA	188 816	216 930	2.65	0.94	11 254	10 966	9.90	0.51	95 316	109 208	5.54	0.74
Argentina	45 645	52 864	-2.46	0.88	3 392	3 005	752.34	0.01	9 506	12 307	-6.04	0.91
Brazil	129 222	147 108	5.73	0.86	410	399	-0.55	1.03	78 097	87 416	8.55	0.58
Chile	0	0	..	..	212	213	-1.18	0.93	2	2	65.73	-0.92
Colombia	75	90	0.93	1.40	584	615	0.13	0.91	0	0	-42.87	..
Mexico	240	490	-1.74	5.91	5 316	5 418	5.02	0.93	5	3	49.67	0.00
Paraguay	8 513	10 711	-1.18	1.97	33	97	-45.46	1.12	5 350	6 917	0.04	2.37
Peru	5	6	0.00	1.41	380	413	7.84	0.90	0	0	..	..
EUROPE	10 856	13 195	7.31	2.11	17 393	15 963	2.03	-1.16	3 312	3 585	8.62	1.34
European Union ¹	2 727	3 719	11.33	2.23	13 731	12 546	1.13	-1.26	223	279	8.76	1.72
United Kingdom	0	0	..	..	758	780	0.12	0.26	0	0	..	..
Russia	4 603	5 671	12.76	2.06	2 078	1 891	9.54	-1.84	1 316	1 551	43.45	0.00
Ukraine	3 070	3 327	0.90	2.31	15	10	31.78	-0.34	1 766	1 747	0.77	2.64
AFRICA	2 869	3 370	3.93	1.39	5 458	6 148	12.04	0.99	168	152	-0.02	-0.41
Egypt	30	36	-0.56	0.96	4 173	4 648	13.52	0.92	13	0	-58.57	..
Ethiopia	121	136	9.24	0.85	3	0	-57.23	..	79	84	11.43	0.34
Nigeria	705	784	1.86	0.90	71	144	147.50	7.28	10	8	99.50	-1.65
South Africa	1 233	1 554	7.59	1.96	81	102	14.93	-2.00	2	1	-30.97	0.18
ASIA	33 488	39 255	2.98	1.35	125 572	144 677	6.23	0.95	463	551	-3.41	0.19
China ²	18 783	21 004	5.49	1.20	96 281	112 093	5.92	0.94	236	309	-4.51	0.00
India	12 469	15 615	0.74	1.57	356	49	88.82	-17.85	64	80	-10.73	4.05
Indonesia	552	717	-5.49	1.32	2 626	3 111	4.20	1.70	4	5	8.36	-0.22
Iran	219	256	3.14	1.40	2 040	2 423	20.22	1.45	20	17	16.73	-1.42
Japan	220	231	-0.29	0.25	3 365	3 127	2.37	-0.16	0	0	..	..
Kazakhstan	287	353	5.68	1.71	47	44	8.15	-2.66	13	0	53.54	..
Korea	93	94	-5.09	0.19	1 278	1 293	0.06	-0.02	0	0	..	..
Malaysia	0	0	..	..	977	1 016	7.50	0.30	10	9	-15.12	-0.30
Pakistan	2	2	-12.20	1.46	2 466	3 173	27.70	2.09	0	0	..	..
Philippines	1	1	0.00	1.45	202	267	17.02	1.90	0	0	..	..
Saudi Arabia	0	0	..	..	808	881	13.62	1.31	0	0	..	..
Thailand	43	49	-4.46	1.39	3 858	4 325	9.05	0.98	5	3	-19.35	-0.97
Türkiye	139	147	-0.98	0.77	2 892	3 297	8.16	1.21	5	5	-19.17	-0.83
Viet Nam	68	77	-12.26	1.25	1 907	2 251	5.07	1.16	67	89	149.00	-1.14
OCEANIA	38	100	-2.82	3.80	5	4	9.66	-0.24	2	11	-10.09	5.35
Australia	38	100	-2.82	3.80	4	3	15.38	-0.33	2	11	-10.10	5.35
New Zealand	0	0	..	..	1	1	0.00	-0.02	0	0	..	..
DEVELOPED COUNTRIES	129 602	153 645	3.30	0.96	22 431	21 142	1.59	-0.83	62 554	68 891	3.90	0.70
DEVELOPING COUNTRIES	223 430	257 414	2.67	1.00	138 051	157 659	6.83	0.95	95 932	109 910	5.48	0.73
LEAST DEVELOPED COUNTRIES (LDC)	897	992	1.98	0.90	1 617	2 039	21.51	2.13	20	17	-2.53	-0.85
OECD³	120 503	143 086	3.06	0.90	30 045	29 548	1.96	-0.19	59 461	65 595	3.71	0.67
BRICS	166 310	190 951	5.36	1.00	99 206	114 535	5.97	0.86	79 716	89 357	8.66	0.57

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	360 090	410 783	3.50	1.05	327 017	372 008	3.71	1.10
NORTH AMERICA	65 238	73 844	2.77	1.22	60 464	68 290	2.91	1.28
Canada	2 630	3 575	2.53	3.24	1 814	2 577	1.89	3.78
United States	62 608	70 269	2.78	1.12	58 650	65 713	2.95	1.19
LATIN AMERICA	105 778	118 669	1.51	1.18	98 537	110 411	1.50	1.17
Argentina	39 531	43 579	-0.34	0.81	38 511	42 513	-0.35	0.82
Brazil	52 202	60 057	2.83	1.44	46 714	53 682	2.93	1.45
Chile	216	211	-0.91	0.94	215	211	-0.97	0.94
Colombia	660	705	0.74	0.97	652	697	0.73	0.98
Mexico	5 668	5 905	5.38	1.55	5 429	5 652	5.65	1.60
Paraguay	3 297	3 890	-0.81	1.40	3 181	3 770	-0.70	1.38
Peru	386	419	8.27	0.91	386	419	8.28	0.91
EUROPE	25 440	25 571	3.44	-0.03	23 157	23 313	3.52	-0.05
European Union ¹	16 499	15 986	2.37	-0.70	14 717	14 267	2.27	-0.78
United Kingdom	758	780	0.12	0.26	701	689	0.51	-0.12
Russia	5 564	6 012	8.87	1.19	5 481	5 933	8.80	1.21
Ukraine	1 360	1 587	1.42	2.01	1 225	1 452	1.44	2.16
AFRICA	8 386	9 364	8.91	1.17	7 735	8 580	10.49	1.07
Egypt	4 246	4 683	13.61	0.93	4 237	4 680	13.63	0.93
Ethiopia	46	52	5.68	1.84	25	24	5.37	1.41
Nigeria	770	919	3.12	1.71	647	754	11.31	1.21
South Africa	1 464	1 654	8.58	1.69	1 326	1 498	8.60	1.68
ASIA	155 207	183 243	5.12	1.06	137 083	161 323	5.64	1.15
China ²	111 426	132 681	5.36	1.00	97 077	114 933	5.74	1.12
India	12 760	15 573	0.92	1.45	11 037	13 566	1.93	1.43
Indonesia	3 200	3 822	1.98	1.63	2 626	3 128	4.20	1.78
Iran	2 303	2 662	17.57	1.48	2 277	2 640	17.79	1.49
Japan	3 528	3 360	1.83	-0.44	2 677	2 549	1.97	-0.50
Kazakhstan	314	396	5.00	1.19	181	227	5.11	1.03
Korea	1 382	1 387	-0.16	-0.01	1 357	1 363	0.04	-0.03
Malaysia	970	1 007	8.81	0.37	968	1 004	8.77	0.37
Pakistan	2 440	3 171	28.14	2.15	2 436	3 167	28.11	2.16
Philippines	210	268	17.33	1.95	206	268	17.32	1.95
Saudi Arabia	808	881	13.66	1.31	806	881	13.63	1.31
Thailand	3 846	4 370	8.80	1.03	3 834	4 354	8.94	1.04
Türkiye	3 023	3 431	8.34	1.22	2 955	3 364	8.29	1.23
Viet Nam	1 905	2 234	3.81	1.44	1 888	2 234	4.45	1.44
OCEANIA	41	92	-0.49	3.44	40	91	-0.45	3.51
Australia	40	91	-0.47	3.49	40	91	-0.45	3.51
New Zealand	1	1	0.00	-0.02	0	0	0.00	0.00
DEVELOPED COUNTRIES	96 777	105 777	3.00	0.86	88 588	96 828	3.12	0.90
DEVELOPING COUNTRIES	263 313	305 006	3.69	1.12	238 429	275 180	3.93	1.17
LEAST DEVELOPED COUNTRIES (LDC)	2 502	3 013	10.66	1.74	2 057	2 478	13.72	1.74
OECD³	98 135	106 917	2.86	0.84	90 319	98 387	2.98	0.89
BRICS	183 415	215 975	4.32	1.16	161 634	189 612	4.65	1.24

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	159 762	187 619	2.27	1.16	21 330	25 799	2.01	1.27	22 380	25 799	2.54	1.27
NORTH AMERICA	21 508	27 191	0.47	0.99	901	985	-1.29	0.11	9 249	12 247	-1.04	3.01
Canada	17 049	22 038	0.33	1.05	270	272	1.74	-0.28	8 578	11 474	-1.12	3.15
United States	4 459	5 153	1.23	0.74	632	712	-2.26	0.26	671	773	-0.25	1.14
LATIN AMERICA	6 181	6 933	2.94	0.80	1 434	1 881	-1.92	1.38	1 044	1 197	6.90	0.95
Argentina	4 324	4 680	3.10	0.41	1	1	0.00	0.00	651	711	4.99	0.49
Brazil	604	839	4.95	2.88	6	5	-8.48	0.00	174	223	16.57	2.15
Chile	199	201	1.94	-0.04	35	37	14.94	1.97	9	8	10.71	-1.64
Colombia	2	2	0.00	0.38	7	7	0.00	-0.02	0	0	..	..
Mexico	104	116	-1.46	0.62	1 358	1 806	-2.19	1.41	2	2	-4.37	0.00
Paraguay	217	245	-2.20	1.49	0	0	..	..	27	35	-2.01	3.46
Peru	6	7	0.00	0.42	1	0	0.00	..	0	0	..	..
EUROPE	66 436	80 083	3.21	1.49	7 771	8 135	6.25	0.39	6 148	7 343	6.05	1.09
European Union ¹	26 089	31 050	-0.18	0.96	6 757	7 181	5.46	0.46	842	877	-0.80	-0.42
United Kingdom	1 561	1 971	-5.84	0.39	373	318	8.82	0.25	94	130	-22.75	-0.98
Russia	17 917	21 702	8.00	1.48	253	265	9.53	0.31	1 813	1 929	32.91	-1.22
Ukraine	18 519	22 673	6.32	2.40	31	32	2.36	-0.09	2 672	3 577	6.82	3.21
AFRICA	9 348	10 632	0.87	1.13	383	400	0.33	0.76	374	429	14.29	-0.09
Egypt	118	133	-0.04	1.06	68	59	1.49	0.24	22	22	6.87	-0.24
Ethiopia	100	111	-2.54	0.77	0	4	..	55.00	0	0	..	..
Nigeria	2 121	2 491	-0.34	1.42	0	0	..	..	14	13	-8.24	-2.63
South Africa	965	1 123	4.07	1.10	24	23	-13.40	-0.26	2	1	-12.45	-0.14
ASIA	51 844	59 400	2.02	1.07	10 809	14 369	0.65	1.91	2 112	2 305	6.84	0.50
China ²	29 144	32 218	1.02	0.83	3 502	6 521	-1.84	4.15	697	679	3.69	0.00
India	14 951	17 892	3.83	1.29	142	160	-4.39	0.55	701	919	10.40	0.71
Indonesia	468	532	-5.99	1.45	247	222	5.41	-1.26	1	1	0.90	0.12
Iran	402	459	6.84	1.13	112	117	10.86	0.21	1	1	0.00	-0.02
Japan	23	25	1.33	0.70	2 284	2 448	-1.46	-0.08	0	0	..	..
Kazakhstan	1 199	1 464	9.53	1.47	7	7	-1.68	-0.10	458	498	18.92	1.23
Korea	13	14	-1.75	-0.23	31	30	2.13	0.22	0	0	..	..
Malaysia	5	5	0.00	0.13	44	49	1.53	1.19	3	3	0.00	-1.17
Pakistan	969	1 170	1.35	1.65	1 032	1 182	1.26	0.74	0	0	-72.37	..
Philippines	20	23	0.20	1.36	89	105	7.20	1.02	0	0	..	..
Saudi Arabia	3	3	0.00	1.53	4	4	0.00	0.79	0	0	..	..
Thailand	90	101	0.12	1.23	59	56	-0.08	-0.66	4	4	-0.76	0.48
Türkiye	1 889	2 400	3.37	2.28	1 025	808	3.27	-1.62	22	13	-4.58	0.32
Viet Nam	319	371	2.73	1.63	187	174	3.70	-0.39	35	36	8.45	0.39
OCEANIA	4 444	3 379	1.33	-1.99	31	29	4.98	0.10	3 454	2 278	0.98	-3.06
Australia	4 431	3 367	1.33	-2.00	27	24	6.29	0.00	3 454	2 278	0.98	-3.06
New Zealand	10	10	0.00	-0.05	4	4	0.00	0.00	0	0	..	..
DEVELOPED COUNTRIES	94 703	113 409	2.62	1.23	11 401	12 036	3.57	0.27	19 339	22 395	2.02	1.39
DEVELOPING COUNTRIES	65 059	74 210	1.81	1.05	9 929	13 763	0.48	2.24	3 041	3 403	6.47	0.48
LEAST DEVELOPED COUNTRIES (LDC)	6 798	7 710	1.46	1.04	347	574	8.78	4.00	315	370	22.54	0.00
OECD³	55 977	66 522	0.24	0.80	12 953	13 810	2.28	0.31	13 688	15 571	-0.52	1.41
BRICS	63 580	73 774	3.39	1.15	3 927	6 974	-1.63	3.85	3 386	3 752	15.51	-0.39

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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

Marketing year

	CONSUMPTION (kt)		Growth (%) ⁴		DOMESTIC CRUSH (kt)		Growth (%) ⁴	
	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	159 859	187 596	2.29	1.22	138 267	166 205	2.57	1.43
NORTH AMERICA	14 625	15 924	3.34	0.71	12 373	13 628	3.23	0.69
Canada	10 118	10 832	4.21	0.72	9 682	10 349	4.06	0.69
United States	4 506	5 091	1.60	0.67	2 691	3 279	0.66	0.70
LATIN AMERICA	6 713	7 617	1.54	0.93	6 239	7 085	1.85	0.89
Argentina	3 818	3 970	3.30	0.39	3 684	3 833	3.92	0.39
Brazil	433	620	2.10	3.13	353	499	1.32	2.95
Chile	226	230	3.16	0.32	207	209	3.30	0.26
Colombia	9	10	0.00	0.07	8	8	0.00	0.09
Mexico	1 461	1 920	-2.10	1.37	1 349	1 821	-2.06	1.41
Paraguay	190	210	-2.99	1.19	157	170	-3.25	1.03
Peru	7	8	0.00	0.78	3	3	0.00	0.70
EUROPE	67 754	80 891	3.00	1.33	63 058	75 870	3.12	1.43
European Union ¹	32 502	37 354	0.83	0.99	29 804	34 727	0.68	1.06
United Kingdom	1 840	2 159	-0.63	0.46	1 765	2 084	-0.62	0.48
Russia	16 402	20 029	6.41	1.77	15 670	19 125	6.84	1.76
Ukraine	15 017	19 156	5.28	1.72	14 060	17 983	5.73	1.95
AFRICA	9 376	10 599	0.50	1.18	5 663	6 109	0.80	0.70
Egypt	171	170	0.15	0.96	119	113	1.25	0.89
Ethiopia	100	114	-2.54	1.14	62	73	-2.94	1.32
Nigeria	2 112	2 478	-0.29	1.44	739	805	-0.31	0.37
South Africa	965	1 141	2.96	1.08	867	1 017	2.89	1.08
ASIA	60 366	71 436	1.67	1.26	50 027	62 498	2.05	1.75
China ²	31 863	38 061	0.71	1.34	25 059	33 279	1.01	2.30
India	14 322	17 114	3.49	1.31	12 740	15 194	3.87	1.30
Indonesia	707	752	-3.22	0.63	279	316	3.29	1.08
Iran	518	575	7.61	0.99	476	527	7.68	0.97
Japan	2 311	2 473	-1.44	-0.08	2 167	2 329	-2.15	-0.08
Kazakhstan	752	971	6.15	1.57	597	759	6.35	1.50
Korea	44	44	0.76	0.08	40	40	0.86	0.09
Malaysia	46	51	1.46	1.21	45	50	1.51	1.22
Pakistan	1 988	2 350	0.72	1.27	1 835	2 163	0.73	1.24
Philippines	110	128	5.80	1.10	97	114	6.73	1.09
Saudi Arabia	7	7	0.00	1.11	5	5	0.00	1.10
Thailand	143	153	0.11	0.52	88	97	0.04	0.80
Türkiye	2 888	3 192	3.37	1.10	2 678	2 953	3.40	1.08
Viet Nam	472	509	3.10	1.01	358	381	3.21	0.87
OCEANIA	1 026	1 130	2.28	1.09	908	1 015	2.17	1.22
Australia	1 009	1 113	2.32	1.11	896	1 003	2.20	1.24
New Zealand	14	14	0.00	-0.03	11	11	0.00	0.00
DEVELOPED COUNTRIES	87 921	103 055	2.97	1.19	80 425	95 106	3.02	1.27
DEVELOPING COUNTRIES	71 938	84 541	1.51	1.26	57 842	71 099	1.97	1.65
LEAST DEVELOPED COUNTRIES (LDC)	6 846	7 913	1.22	1.29	4 759	5 330	1.37	0.97
OECD³	57 211	64 753	1.36	0.87	51 557	59 108	1.17	0.92
BRICS	63 984	76 964	2.60	1.45	54 689	69 114	3.13	1.91

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	357 505	409 553	3.10	1.14	91 072	101 540	1.86	0.97	90 689	101 540	0.79	0.97
NORTH AMERICA	57 351	64 523	2.82	1.22	5 126	4 588	1.48	-0.25	17 860	21 867	3.05	1.78
Canada	6 919	7 895	3.41	1.40	1 166	1 035	3.45	-1.34	5 132	5 541	4.67	0.54
United States	50 432	56 629	2.74	1.19	3 960	3 553	0.95	0.09	12 728	16 325	2.45	2.24
LATIN AMERICA	82 545	93 211	1.45	1.29	9 542	11 036	1.74	1.29	47 915	54 072	-0.20	1.24
Argentina	31 840	35 060	-0.33	0.80	0	0	..	..	27 693	30 213	-0.63	0.69
Brazil	38 301	44 623	2.92	1.72	5	5	4.91	0.00	16 476	20 203	0.68	2.37
Chile	287	285	0.49	0.65	1 133	1 036	-0.37	0.62	1	1	0.00	-0.06
Colombia	711	776	1.26	0.87	1 721	2 283	8.28	2.04	102	85	5.92	-2.00
Mexico	5 296	5 779	3.84	1.58	1 896	1 991	1.95	0.43	22	22	0.84	0.00
Paraguay	2 565	3 024	-1.04	1.37	2	2	0.06	0.64	1 875	1 998	-2.38	0.94
Peru	327	355	6.59	0.84	1 484	2 002	6.96	2.64	5	5	0.00	-0.63
EUROPE	48 203	54 371	2.86	0.88	27 287	24 957	-0.37	-0.92	10 452	13 434	3.73	2.25
European Union ¹	27 864	30 202	1.07	0.35	22 071	19 882	-0.41	-1.06	2 072	2 256	0.11	1.72
United Kingdom	1 480	1 646	-0.10	0.29	2 921	2 618	-0.16	-0.93	394	537	11.05	1.42
Russia	9 886	11 586	7.66	1.58	423	499	-4.79	-0.02	2 567	3 131	3.91	2.50
Ukraine	7 229	9 138	5.09	1.98	30	29	-6.91	0.27	5 130	7 225	5.25	2.46
AFRICA	10 899	12 417	6.35	1.10	4 022	5 546	-3.72	3.44	691	503	1.76	-3.61
Egypt	3 476	3 816	12.70	0.93	328	824	-16.63	12.03	8	5	18.06	-1.27
Ethiopia	111	134	2.36	2.15	20	35	23.57	4.82	0	0	..	..
Nigeria	1 028	1 194	4.95	1.07	641	760	21.66	0.38	188	177	2.02	-0.38
South Africa	1 477	1 686	6.89	1.48	642	734	-6.64	0.56	33	32	-3.82	-0.24
ASIA	157 610	184 060	4.03	1.13	41 836	51 465	4.24	1.77	13 704	11 575	-0.06	-2.29
China ²	93 088	109 179	4.47	1.09	4 846	6 754	27.22	2.04	1 088	996	-6.83	-0.25
India	21 944	26 145	1.90	1.36	460	1 202	12.70	12.41	2 735	1 101	-1.11	-11.04
Indonesia	8 206	9 551	4.82	1.20	5 458	6 219	4.81	0.84	5 491	5 180	4.83	-0.83
Iran	2 132	2 463	15.06	1.40	2 040	2 526	-0.59	0.33	10	10	-24.55	-0.04
Japan	3 378	3 365	0.32	-0.34	2 087	1 889	0.19	-0.25	3	3	16.73	0.00
Kazakhstan	490	633	5.42	1.52	5	5	-0.04	-0.18	176	225	7.20	1.57
Korea	1 176	1 178	0.04	-0.03	3 433	3 658	-0.92	0.70	43	39	-16.46	0.00
Malaysia	3 365	3 736	1.12	0.74	1 509	1 518	1.58	0.38	2 504	2 509	-0.22	-0.38
Pakistan	4 022	4 829	3.45	1.64	410	1 284	-9.42	10.20	66	43	-13.22	-3.82
Philippines	1 130	1 358	2.65	1.55	2 969	3 683	3.85	1.96	343	288	-4.79	-1.92
Saudi Arabia	639	698	13.52	1.31	1 669	1 997	10.51	1.86	12	5	45.46	-0.53
Thailand	3 568	4 110	9.34	1.11	3 369	3 814	0.45	1.15	12	12	8.61	-0.11
Türkiye	4 489	5 282	5.42	1.36	2 255	2 729	3.72	2.18	235	222	12.74	-2.02
Viet Nam	1 727	2 032	4.31	1.38	6 044	7 698	5.80	2.22	47	36	-10.07	-1.14
OCEANIA	898	972	-0.47	0.21	3 259	3 947	4.03	1.86	65	90	-8.82	-0.11
Australia	766	817	-0.73	0.18	1 058	1 377	6.48	2.44	12	12	-22.04	0.00
New Zealand	8	8	0.10	0.00	2 192	2 564	3.04	1.56	0	0	..	..
DEVELOPED COUNTRIES	113 290	127 248	2.76	1.02	39 334	37 418	0.19	-0.39	28 554	35 586	3.24	1.95
DEVELOPING COUNTRIES	244 215	282 306	3.26	1.20	51 738	64 123	3.28	1.87	62 135	65 954	-0.20	0.48
LEAST DEVELOPED COUNTRIES (LDC)	5 253	6 356	4.86	1.40	1 363	2 308	10.84	4.83	356	213	2.36	-5.97
OECD³	103 318	114 421	2.26	0.92	47 587	46 628	0.70	-0.08	20 770	25 068	2.71	1.70
BRICS	164 696	193 219	3.89	1.30	6 376	9 193	12.76	2.65	22 900	25 463	-0.11	1.12

.. Not available

Note: Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31
WORLD	358 503	409 437	3.42	1.15
NORTH AMERICA	44 658	47 243	2.55	0.81
Canada	2 970	3 386	1.19	1.91
United States	41 688	43 857	2.65	0.73
LATIN AMERICA	44 237	50 158	3.62	1.36
Argentina	4 146	4 847	2.01	1.56
Brazil	21 831	24 425	4.93	1.20
Chile	1 401	1 319	-0.14	0.65
Colombia	2 325	2 971	6.01	1.92
Mexico	7 168	7 748	3.28	1.28
Paraguay	733	1 022	1.54	2.63
Peru	1 816	2 350	6.61	2.41
EUROPE	65 031	65 892	1.31	-0.07
European Union ¹	47 862	47 829	0.41	-0.32
United Kingdom	4 007	3 727	-0.87	-0.73
Russia	7 628	8 954	8.45	1.19
Ukraine	2 175	1 939	4.95	0.52
AFRICA	14 231	17 452	2.81	1.98
Egypt	3 766	4 632	4.98	2.26
Ethiopia	131	169	4.21	2.63
Nigeria	1 478	1 777	10.37	0.95
South Africa	2 087	2 386	0.81	1.24
ASIA	186 248	223 863	4.48	1.50
China ²	97 332	114 934	5.23	1.16
India	19 644	26 220	3.01	2.84
Indonesia	8 034	10 573	4.62	2.19
Iran	4 222	4 977	5.44	0.87
Japan	5 463	5 251	0.20	-0.31
Kazakhstan	319	412	4.99	1.52
Korea	4 579	4 798	-0.29	0.52
Malaysia	2 370	2 744	2.97	1.69
Pakistan	4 364	6 064	2.08	3.07
Philippines	3 779	4 749	5.13	2.16
Saudi Arabia	2 306	2 689	11.51	1.72
Thailand	6 908	7 911	4.03	1.14
Türkiye	6 553	7 777	4.69	1.76
Viet Nam	7 807	9 692	5.96	2.06
OCEANIA	4 098	4 829	3.29	1.54
Australia	1 821	2 182	3.70	1.54
New Zealand	2 198	2 571	3.02	1.56
DEVELOPED COUNTRIES	124 115	129 073	1.78	0.36
DEVELOPING COUNTRIES	234 388	280 364	4.38	1.54
LEAST DEVELOPED COUNTRIES (LDC)	6 223	8 445	6.11	2.55
OECD³	130 264	135 963	1.60	0.43
BRICS	148 521	176 918	4.94	1.40

Note: Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	214 328	248 952	3.21	1.13	84 280	93 536	2.42	0.71	85 607	93 536	2.41	0.71
NORTH AMERICA	18 243	19 959	3.10	1.11	5 152	5 362	3.33	0.69	4 660	4 776	2.22	2.90
Canada	4 569	4 920	3.91	0.94	358	284	0.34	-2.73	3 349	3 517	3.48	0.69
United States	13 674	15 039	2.84	1.16	4 794	5 078	3.61	0.92	1 311	1 259	-0.81	13.24
LATIN AMERICA	27 337	31 421	2.36	1.30	4 523	5 003	0.49	0.66	11 001	11 124	2.15	-0.10
Argentina	8 634	9 378	0.34	0.75	17	17	1.46	-0.02	6 202	6 604	1.92	0.11
Brazil	10 180	12 119	3.45	1.89	485	635	0.41	1.36	1 180	750	-3.19	-2.64
Chile	118	118	1.81	0.47	475	554	4.05	1.08	1	1	-5.68	-0.16
Colombia	1 970	2 398	5.57	0.76	626	609	3.34	0.53	810	747	13.94	-0.53
Mexico	2 006	2 305	2.49	1.53	889	1 029	0.61	0.44	54	62	3.32	0.00
Paraguay	650	809	-0.62	1.35	13	9	0.00	-1.18	562	683	0.44	1.19
Peru	293	339	4.54	1.42	608	722	4.81	1.67	1	0	0.00	-0.14
EUROPE	31 071	36 722	3.28	1.23	14 406	11 687	2.16	-2.31	14 176	17 480	6.98	1.74
European Union ¹	15 505	17 478	1.15	0.74	10 563	7 993	1.67	-3.20	2 439	2 596	0.33	0.92
United Kingdom	915	1 035	-0.75	0.39	1 227	1 119	2.12	0.03	322	242	1.37	0.06
Russia	7 190	8 795	7.13	1.67	1 394	1 448	6.21	0.06	4 846	6 341	14.20	1.74
Ukraine	6 555	8 440	5.62	1.96	278	205	-1.61	-2.11	6 090	7 821	6.32	2.16
AFRICA	9 017	10 588	3.61	1.20	10 884	14 867	1.49	3.04	1 555	1 214	1.11	-2.71
Egypt	853	926	11.21	0.93	1 597	2 011	-1.75	2.33	131	98	-11.18	-2.28
Ethiopia	60	74	1.42	2.11	517	826	3.74	4.93	0	0	..	..
Nigeria	1 983	2 515	4.21	1.71	1 225	1 911	-1.43	4.67	40	17	-17.03	-1.69
South Africa	574	661	4.91	1.31	793	894	-0.47	1.33	19	20	-16.95	-0.91
ASIA	127 360	148 736	3.38	1.08	48 942	56 191	2.81	0.89	53 266	57 830	1.54	0.50
China ²	28 161	33 401	3.56	1.23	11 355	11 022	2.73	-0.94	171	110	-4.37	0.00
India	10 493	12 396	1.97	1.33	13 564	16 249	1.72	1.80	281	387	9.11	-1.21
Indonesia	51 566	60 561	5.74	1.00	136	115	3.06	0.03	31 122	35 046	3.16	0.58
Iran	627	720	12.50	1.30	1 920	2 855	3.07	0.73	201	368	-7.77	-0.73
Japan	1 406	1 477	-1.00	-0.23	857	950	0.87	0.10	2	2	-4.25	0.00
Kazakhstan	327	422	5.31	1.57	171	198	10.17	1.09	74	64	15.63	-1.08
Korea	292	292	0.08	-0.02	1 251	1 408	5.34	1.02	3	3	1.65	0.01
Malaysia	20 188	22 409	-0.93	0.83	2 159	2 211	6.59	-0.58	17 696	18 532	-0.91	0.58
Pakistan	1 708	1 992	-0.26	1.42	3 228	4 473	2.95	2.57	50	23	-12.14	-1.89
Philippines	1 899	2 250	1.28	1.47	1 302	1 581	9.23	1.30	921	746	0.08	-1.28
Saudi Arabia	147	161	13.17	1.30	885	1 033	8.22	1.34	55	47	23.92	-1.32
Thailand	4 118	5 148	7.33	1.48	312	334	1.67	-3.02	576	749	4.98	3.12
Türkiye	2 077	2 438	4.27	1.35	1 547	1 475	0.26	0.30	502	375	-4.03	-0.30
Viet Nam	695	811	3.99	1.24	1 163	1 390	5.56	1.32	155	123	4.05	-1.30
OCEANIA	1 299	1 525	1.82	0.54	372	426	3.85	1.00	949	1 114	2.97	0.48
Australia	433	470	0.37	0.61	247	289	5.41	0.99	192	211	3.82	1.48
New Zealand	5	5	0.29	0.00	97	111	1.87	1.35	0	0	..	..
DEVELOPED COUNTRIES	53 025	60 803	3.05	1.14	22 245	20 266	2.40	-1.05	19 154	22 570	5.56	1.95
DEVELOPING COUNTRIES	161 303	188 149	3.26	1.13	62 035	73 270	2.43	1.25	66 453	70 966	1.64	0.34
LEAST DEVELOPED COUNTRIES (LDC)	4 137	4 834	2.41	1.17	7 058	9 711	3.69	2.80	566	410	6.74	-3.88
OECD³	43 221	48 254	2.20	0.91	23 691	21 672	2.29	-0.97	9 127	9 155	2.02	1.68
BRICS	56 598	67 372	3.63	1.42	27 591	30 248	2.13	0.61	6 498	7 607	7.73	1.02

.. Not available

Note: Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	213 827	248 681	3.30	1.15	18.1	19.2	1.69	0.53
NORTH AMERICA	18 679	20 546	3.29	0.62	39.6	41.6	1.42	0.62
Canada	1 535	1 688	4.90	0.73	36.9	37.1	3.37	-0.04
United States	17 144	18 858	3.15	0.61	39.9	42.1	1.24	0.69
LATIN AMERICA	20 929	25 295	1.98	1.88	18.0	20.1	-0.86	1.43
Argentina	2 446	2 790	-3.21	2.39	19.5	20.5	0.47	0.44
Brazil	9 531	12 002	4.21	2.31	22.4	27.2	-1.79	2.95
Chile	593	671	3.61	1.00	8.7	8.8	-0.81	0.36
Colombia	1 790	2 258	2.53	1.21	18.4	21.3	0.31	0.56
Mexico	2 848	3 273	1.90	1.21	22.1	23.1	0.72	0.36
Paraguay	102	135	-7.02	2.02	12.5	15.6	-8.56	1.04
Peru	904	1 060	4.82	1.62	10.7	11.4	3.16	0.98
EUROPE	31 149	30 929	1.42	-0.55	24.3	24.4	2.04	0.39
European Union ¹	23 490	22 875	1.46	-0.94	25.1	24.3	2.70	0.15
United Kingdom	1 820	1 911	0.68	0.22	26.8	27.0	0.05	-0.13
Russia	3 723	3 901	1.19	0.93	25.5	27.3	1.03	1.16
Ukraine	739	824	-1.31	0.46	12.6	15.4	-1.03	0.81
AFRICA	18 448	24 230	2.62	2.58	8.9	9.6	-0.46	0.91
Egypt	2 346	2 837	2.86	2.09	7.0	8.1	-0.79	1.87
Ethiopia	578	900	3.50	4.67	4.7	5.8	1.04	2.53
Nigeria	3 194	4 408	2.40	2.92	9.8	10.6	-0.56	0.76
South Africa	1 366	1 534	2.26	1.38	12.6	13.8	1.05	1.27
ASIA	123 900	146 845	4.19	1.27	18.1	19.8	2.69	0.66
China ²	39 861	44 288	3.76	0.64	27.7	30.2	3.27	0.52
India	24 039	28 242	1.90	1.67	10.9	11.6	1.22	1.08
Indonesia	20 204	25 491	10.59	1.59	25.7	31.2	8.03	1.44
Iran	2 244	3 197	4.33	1.24	14.4	19.0	4.83	0.79
Japan	2 236	2 426	-0.18	-0.07	17.7	20.2	0.03	0.43
Kazakhstan	426	556	5.82	1.88	21.0	25.0	3.97	1.04
Korea	1 551	1 697	4.39	0.88	17.6	22.0	3.06	1.52
Malaysia	5 110	6 055	2.54	1.27	23.1	25.5	0.55	0.62
Pakistan	4 911	6 434	2.17	2.28	15.9	18.0	-1.25	0.96
Philippines	2 269	3 082	6.01	2.17	13.8	16.1	5.43	1.25
Saudi Arabia	977	1 145	8.51	1.50	23.6	24.5	7.16	0.49
Thailand	3 875	4 729	7.76	0.84	13.7	14.8	7.70	0.62
Türkiye	3 094	3 531	3.52	1.10	26.4	27.5	1.81	0.35
Viet Nam	1 717	2 077	5.18	1.50	2.7	2.9	4.90	0.57
OCEANIA	723	836	1.51	0.93	16.8	17.1	0.15	-0.21
Australia	493	548	1.42	0.48	19.3	19.3	0.09	-0.48
New Zealand	101	116	1.80	1.30	21.0	22.2	0.86	0.62
DEVELOPED COUNTRIES	55 901	58 498	2.05	0.03	26.4	27.6	1.65	0.56
DEVELOPING COUNTRIES	157 927	190 183	3.78	1.52	16.3	17.4	1.80	0.60
LEAST DEVELOPED COUNTRIES (LDC)	10 674	14 130	3.19	2.50	8.2	9.0	0.56	0.83
OECD³	57 562	60 764	2.25	0.06	27.3	28.4	1.66	0.46
BRICS	78 520	89 968	3.07	1.20	19.8	21.3	2.07	0.73

Note: Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
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
CANADA												
Tariffs												
Palm oil	%	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
EUROPEAN UNION^{1,2}												
Voluntary coupled support												
Soybean	mIn EUR	33	35	36	36	36	37	38	39	39	41	40
Tariffs												
Soybean oil	%	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Rapeseed oil	%	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
KOREA												
Soybean tariff-quota	kt	800	1 200	1 200	1 200	1 200	1 200	1 200	1 200	1 200	1 200	1 200
In-quota tariff	%	3	3	3	3	3	3	3	3	3	3	3
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	%	51.2	50.8	50.5	50.5	50.7	50.8	50.9	50.6	50.5	50.5	50.5
Soybean loan rate	USD/t	227.8	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	%	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	%	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
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	%	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
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 2019-21est: Data for 2021 are estimated. The sources for tariffs and Tariff Rate Quotas are the national questionnaire reply, UNCTAD and WTO.

1. 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%).
2. Refers to all current European Union member States (excludes the United Kingdom)

Source: OECD/FAO (2022), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.23.1. Sugar projections: Production and trade

Marketing year

	PRODUCTION (kt)		Growth (%) ⁴		IMPORTS (kt)		Growth (%) ⁴		EXPORTS (kt)		Growth (%) ⁴	
	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	169 979	190 070	0.02	0.93	60 708	66 464	0.46	1.38	62 531	68 288	0.16	1.34
NORTH AMERICA	7 609	8 616	0.89	0.44	4 151	3 517	-0.49	0.03	102	80	-11.10	0.00
Canada	111	132	2.06	0.26	1 186	1 194	0.54	0.82	60	50	7.72	0.00
United States	7 499	8 483	0.87	0.44	2 966	2 323	-0.92	-0.34	42	30	-19.75	0.00
LATIN AMERICA	56 905	63 649	-0.98	1.65	2 223	2 396	-0.31	1.06	33 968	40 442	-0.97	2.60
Argentina	1 730	1 932	-1.32	1.69	0	0	..	..	394	632	7.58	6.58
Brazil	37 418	44 014	-0.88	2.57	0	0	-68.56	..	27 033	33 466	-0.66	3.33
Chile	138	108	-8.37	-0.54	599	600	1.62	-0.35	0	0	..	..
Colombia	2 127	2 027	-0.33	-0.25	225	226	3.82	0.88	645	493	-0.45	-0.87
Mexico	5 702	5 917	-1.23	-0.32	41	34	22.00	-0.29	1 324	1 558	-5.21	-1.77
Paraguay	147	95	-1.80	-3.12	77	117	175.09	2.42	87	65	3.69	-2.36
Peru	1 157	1 077	0.21	-0.61	341	580	7.26	3.93	122	71	3.23	-3.78
EUROPE	24 488	25 327	0.33	0.30	4 725	3 572	-6.15	-1.44	2 244	2 970	-4.09	6.92
European Union ¹	15 044	15 994	0.37	0.33	2 493	1 572	-7.91	-2.63	863	1 706	-8.44	6.03
United Kingdom	1 068	1 021	-1.70	-0.22	1 087	1 097	-0.32	-0.03	235	264	-1.62	-0.69
Russia	5 979	6 140	3.32	0.73	292	84	-18.24	-1.94	669	506	70.80	22.21
Ukraine	1 261	1 091	-5.24	-1.77	67	1	34.40	-21.75	65	199	1.14	28.51
AFRICA	11 104	13 337	1.19	1.11	14 504	17 250	1.92	2.34	5 367	4 746	2.13	-0.64
Egypt	2 627	3 327	3.84	1.61	851	981	-5.93	2.32	235	265	-3.15	-2.26
Ethiopia	406	509	3.41	1.96	404	587	29.03	5.92	37	48	207.68	-2.78
Nigeria	20	0	10.45	..	1 550	1 731	-0.07	2.88	0	0	-58.08	..
South Africa	2 024	2 191	0.44	0.56	345	185	-6.95	-2.02	966	1 073	10.53	2.06
ASIA	65 667	74 561	0.60	0.65	34 790	39 415	1.30	1.44	17 581	16 588	2.96	-1.02
China ²	10 307	10 495	-2.31	0.35	5 396	7 460	0.61	2.95	112	70	9.38	0.00
India	30 318	31 992	3.10	0.05	820	341	-15.36	8.43	6 801	2 764	19.05	-7.78
Indonesia	2 135	2 587	-2.10	1.80	5 580	6 684	5.88	2.02	5	0	41.90	..
Iran	1 328	1 531	0.12	1.75	1 476	1 099	4.03	-2.52	6	0	-68.37	..
Japan	722	765	0.59	0.07	1 288	1 144	-0.44	-0.87	4	5	20.88	0.00
Kazakhstan	51	0	32.47	..	470	527	0.19	0.51	6	0	-46.42	..
Korea	0	0	..	..	1 978	2 032	0.74	0.15	317	363	-0.37	0.73
Malaysia	0	0	-78.96	..	2 072	2 391	0.77	1.17	187	130	-7.07	-1.15
Pakistan	5 588	7 254	1.03	2.05	195	55	26.32	-3.29	356	272	-5.38	1.88
Philippines	2 236	2 246	-1.33	-0.04	156	318	568.49	3.05	112	95	-4.89	-3.01
Saudi Arabia	0	0	..	..	1 775	1 915	4.27	0.47	448	456	12.09	-0.47
Thailand	8 310	12 456	-1.96	1.55	0	0	..	..	6 609	10 080	0.14	2.03
Türkiye	2 785	3 015	3.26	0.51	189	281	40.29	5.14	314	263	26.33	-4.89
Viet Nam	777	912	-8.61	0.31	889	601	22.63	0.05	308	325	5.41	-0.05
OCEANIA	4 207	4 580	-1.81	0.09	314	314	-2.77	0.13	3 269	3 462	-1.83	-0.35
Australia	4 004	4 345	-1.74	0.08	18	20	-23.20	0.00	3 108	3 331	-1.70	-0.34
New Zealand	0	0	..	..	227	224	-0.93	-0.11	20	20	-2.31	0.00
DEVELOPED COUNTRIES	39 031	41 424	0.25	0.32	13 351	11 505	-3.01	-0.43	6 651	7 659	-1.98	2.36
DEVELOPING COUNTRIES	130 949	148 646	-0.04	1.11	47 357	54 959	1.66	1.81	55 880	60 629	0.42	1.22
LEAST DEVELOPED COUNTRIES (LDC)	3 934	4 739	1.51	1.09	9 632	12 472	3.01	2.84	2 387	2 014	-3.45	-0.20
OECD³	39 429	42 038	0.00	0.19	13 056	11 552	-1.92	-0.35	6 936	8 087	-2.93	0.20
BRICS	86 047	94 832	0.54	1.24	6 852	8 071	-2.99	2.92	35 582	37 879	1.90	2.00

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 are estimated. Sugar data are expressed on a ten thousand metric tonne 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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

Marketing year

	CONSUMPTION (kt)		Growth (%) ⁴		PER CAPITA (kg/cap)		Growth (%) ⁴	
	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	169 838	187 758	0.65	0.91	21.9	21.9	-0.44	0.02
NORTH AMERICA	11 680	12 047	0.58	0.26	30.8	30.0	0.32	-0.29
Canada	1 256	1 275	0.79	0.19	24.5	24.0	3.30	-0.43
United States	10 424	10 772	0.55	0.27	31.5	30.6	0.13	-0.27
LATIN AMERICA	25 123	25 487	-0.93	0.17	38.5	36.0	-1.88	-0.56
Argentina	1 290	1 298	-3.70	0.29	28.5	26.3	-4.64	-0.50
Brazil	10 277	10 489	-1.60	0.34	48.4	46.7	-2.38	-0.13
Chile	742	710	-0.45	-0.38	38.9	36.3	-1.62	-0.54
Colombia	1 737	1 759	0.27	0.07	34.2	32.8	-0.99	-0.40
Mexico	4 314	4 394	0.06	-0.05	33.5	31.0	-1.10	-0.89
Paraguay	137	147	0.82	0.63	19.2	18.3	-0.48	-0.41
Peru	1 401	1 575	2.56	1.03	42.5	43.4	1.10	0.18
EUROPE	27 197	26 035	-0.57	-0.30	36.3	35.1	-0.71	-0.19
European Union ¹	16 623	15 925	-0.55	-0.30	37.3	36.1	-0.67	-0.20
United Kingdom	1 868	1 868	-1.35	-0.05	27.5	26.4	-1.97	-0.40
Russia	5 861	5 720	0.82	-0.12	40.2	40.0	0.66	0.10
Ukraine	1 251	922	-5.47	-2.18	28.6	22.7	-5.00	-1.51
AFRICA	20 077	25 702	1.79	2.29	15.1	15.0	-0.76	-0.01
Egypt	3 222	4 016	0.31	2.00	31.5	32.7	-1.76	0.38
Ethiopia	672	1 020	6.27	3.77	5.8	6.9	3.47	1.46
Nigeria	1 517	1 726	-0.60	2.86	7.4	6.4	-3.15	0.42
South Africa	1 537	1 300	-3.46	-0.79	25.9	19.5	-4.82	-1.79
ASIA	84 391	97 064	1.35	1.21	18.3	19.5	0.40	0.55
China ²	15 653	17 855	0.64	1.10	10.9	12.2	0.16	0.98
India	25 841	29 544	1.21	1.17	18.7	19.5	0.14	0.34
Indonesia	7 313	9 199	3.08	1.95	26.7	30.5	1.87	1.08
Iran	2 476	2 625	0.37	0.30	29.5	28.1	-0.96	-0.61
Japan	2 004	1 904	-1.09	-0.51	15.8	15.9	-0.89	-0.01
Kazakhstan	488	527	0.60	0.48	26.0	25.3	-0.79	-0.40
Korea	1 625	1 670	0.98	0.05	31.7	32.7	0.72	0.10
Malaysia	1 884	2 261	2.38	1.36	58.2	62.1	1.01	0.32
Pakistan	5 576	7 035	2.45	2.02	25.2	26.3	0.37	0.32
Philippines	2 164	2 452	-0.14	0.88	19.7	19.6	-1.60	-0.29
Saudi Arabia	1 272	1 449	2.01	1.13	36.5	36.5	-0.12	-0.01
Thailand	2 604	2 348	-0.89	-0.51	37.3	33.4	-1.23	-0.54
Türkiye	2 632	2 985	2.41	0.81	31.2	33.3	0.90	0.29
Viet Nam	1 541	1 174	-0.85	0.09	15.9	11.2	-1.84	-0.53
OCEANIA	1 369	1 423	0.04	0.45	32.8	30.0	-1.37	-0.69
Australia	1 027	1 031	-0.39	0.18	40.3	36.3	-1.69	-0.78
New Zealand	210	204	-0.46	-0.12	43.6	39.3	-1.38	-0.79
DEVELOPED COUNTRIES	46 145	45 350	-0.32	-0.09	32.0	30.7	-0.63	-0.27
DEVELOPING COUNTRIES	123 693	142 408	1.04	1.25	19.6	20.0	-0.25	0.20
LEAST DEVELOPED COUNTRIES (LDC)	10 770	15 109	4.07	2.76	12.1	13.4	1.68	0.59
OECD³	45 425	45 523	-0.03	0.00	32.3	31.4	-0.47	-0.26
BRICS	59 169	64 908	0.35	0.85	18.3	19.0	-0.40	0.40

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 are estimated. Sugar data are expressed on a tel quel 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.24. Main policy assumptions for sugar markets

Marketing year

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
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	17.0
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	%	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
Tariff, over-quota	%	70.6	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	172.9	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	0.0	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
RUSSIA												
Minimum tariff, raw sugar	USD/t	190.3	171.0	203.0	203.0	240.0	240.0	240.0	203.0	203.0	203.0	203.0
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	1 637	1 487	1 494	1 502	1 509	1 517	1 525	1 533	1 541	1 546	1 552
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	%	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	329 284	377 205	1.18	0.95	37 563	40 419	3.97	0.33	38 942	40 037	3.18	0.31
NORTH AMERICA	52 514	55 591	1.99	0.65	2 833	3 082	2.52	0.01	10 351	10 482	2.29	0.45
Canada	5 202	5 431	1.85	0.43	694	809	-0.15	0.99	2 235	2 264	3.12	0.12
United States	47 312	50 160	2.00	0.68	2 139	2 273	3.56	-0.32	8 116	8 218	2.07	0.54
LATIN AMERICA	54 816	61 613	1.60	0.91	4 960	5 899	4.00	0.98	10 263	11 608	4.20	1.01
Argentina	6 107	6 754	2.37	1.00	42	39	1.54	0.40	986	1 238	10.81	1.90
Brazil	27 567	29 697	1.18	0.54	49	45	-2.50	-0.01	7 009	7 553	3.02	0.94
Chile	1 576	1 796	1.06	0.90	675	770	10.84	0.25	471	506	6.34	0.21
Colombia	2 930	3 680	2.91	1.85	247	350	11.55	1.48	45	85	11.36	1.55
Mexico	7 386	8 127	2.93	0.78	2 243	2 670	4.30	1.25	579	654	11.45	1.22
Paraguay	647	1 004	6.03	2.66	35	36	3.66	0.33	376	666	3.87	3.16
Peru	2 141	2 767	3.94	2.33	109	97	13.87	-3.46	1	1	-27.87	0.53
EUROPE	64 591	63 718	1.76	-0.23	4 875	5 003	-3.55	-0.10	10 231	8 645	5.65	-1.71
European Union ¹	44 789	43 247	1.38	-0.47	1 402	1 498	-1.77	0.56	7 728	6 343	5.12	-2.11
United Kingdom	4 003	3 911	1.74	-0.28	1 730	1 975	0.82	0.61	875	651	2.15	-2.80
Russia	10 655	11 339	4.05	0.48	700	399	-14.22	-5.48	592	500	30.25	0.58
Ukraine	2 236	2 279	0.53	0.63	411	396	0.93	-0.35	488	547	16.30	0.77
AFRICA	18 023	22 687	2.36	2.28	2 949	4 933	1.65	3.74	330	348	2.25	0.68
Egypt	2 158	3 084	1.34	3.49	321	383	-3.23	1.04	4	2	-0.47	-1.16
Ethiopia	790	938	3.56	1.57	1	2	5.13	11.96	14	17	-0.53	3.83
Nigeria	1 223	1 396	1.28	1.34	7	16	13.78	4.18	0	0	..	..
South Africa	3 458	4 146	2.23	1.51	530	451	1.03	-0.88	149	222	0.81	3.85
ASIA	132 982	166 333	0.35	1.39	21 363	20 806	7.34	-0.39	5 030	5 783	1.82	1.57
China ²	75 416	94 292	-1.26	0.91	8 237	6 198	23.83	-2.60	708	607	-2.24	-0.27
India	7 475	10 394	1.90	2.76	2	2	4.13	0.34	1 347	1 444	-2.45	0.16
Indonesia	4 675	5 805	8.36	1.96	250	356	20.55	1.81	3	3	-6.16	1.34
Iran	3 033	3 825	1.34	1.78	135	117	0.28	2.56	75	146	-1.92	5.53
Japan	3 445	3 354	0.76	-0.12	3 105	3 093	2.60	-0.09	19	23	7.72	0.24
Kazakhstan	1 010	1 235	4.00	1.15	321	382	1.36	1.49	28	32	26.29	-1.44
Korea	2 680	2 713	2.57	0.14	1 419	1 621	5.72	0.70	62	51	6.56	-0.75
Malaysia	2 015	2 587	1.47	2.06	340	404	3.24	1.29	221	221	5.50	-1.16
Pakistan	4 723	6 462	6.66	2.52	2	2	-12.82	0.21	81	55	4.27	-2.83
Philippines	3 075	4 280	-0.55	4.54	713	1 175	10.84	1.00	7	8	-10.64	-0.22
Saudi Arabia	915	1 323	7.28	3.26	841	823	-3.60	-0.91	61	68	-1.16	1.15
Thailand	3 128	3 612	0.78	1.60	30	34	-7.11	-0.02	1 313	1 682	6.32	2.31
Türkiye	3 400	4 137	3.02	2.29	74	83	-1.61	-0.56	716	1 155	7.11	5.93
Viet Nam	5 435	7 025	3.18	2.03	770	518	-3.07	-2.58	35	25	5.96	1.36
OCEANIA	6 357	7 262	0.29	1.11	582	696	3.12	1.22	2 737	3 171	-1.46	1.25
Australia	4 768	5 598	-0.02	1.31	379	424	2.74	0.64	1 629	2 068	-3.31	1.81
New Zealand	1 450	1 511	1.31	0.40	82	97	4.89	1.25	1 105	1 100	1.90	0.29
DEVELOPED COUNTRIES	134 332	138 788	1.79	0.29	12 658	13 248	-0.21	0.08	23 544	22 594	3.09	-0.31
DEVELOPING COUNTRIES	194 952	238 417	0.78	1.36	24 906	27 171	6.79	0.45	15 398	17 442	3.33	1.17
LEAST DEVELOPED COUNTRIES (LDC)	11 268	14 605	3.00	2.55	1 219	2 487	2.16	5.36	82	47	14.58	-5.19
OECD³	130 488	135 381	1.73	0.34	14 475	16 013	2.75	0.49	23 607	23 133	2.98	-0.11
BRICS	124 570	149 868	-0.10	0.93	9 518	7 095	10.98	-2.68	9 803	10 327	2.29	0.79

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.25.2. Meat projections: Consumption, food

Calendar year

	CONSUMPTION (kt cwe)		Growth (%) ⁴		FOOD (kg rwe/cap) ⁵		Growth (%) ⁴	
	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	327 683	377 206	1.25	0.96	34.1	35.6	0.21	0.09
NORTH AMERICA	45 281	48 420	1.97	0.66	98.5	99.2	1.34	0.12
Canada	3 320	3 646	1.38	0.79	70.5	71.3	0.52	0.05
United States	41 961	44 774	2.02	0.65	101.7	102.5	1.41	0.13
LATIN AMERICA	49 061	55 424	1.32	0.90	60.9	63.4	0.47	0.19
Argentina	5 162	5 555	1.26	0.81	89.6	88.4	0.41	0.05
Brazil	20 519	22 088	0.68	0.39	77.7	79.2	0.07	-0.06
Chile	1 760	2 038	2.56	0.84	73.4	83.2	1.27	0.69
Colombia	3 080	3 882	3.35	1.85	49.6	59.6	2.29	1.45
Mexico	8 825	9 909	2.99	0.92	56.0	57.2	1.84	0.08
Paraguay	302	371	8.67	1.62	32.2	35.3	7.03	0.59
Peru	2 248	2 863	4.36	2.08	58.4	67.7	2.97	1.24
EUROPE	58 926	59 858	0.62	0.03	63.2	65.0	0.56	0.16
European Union ¹	38 136	38 178	0.59	-0.10	68.5	69.4	0.53	0.02
United Kingdom	4 857	5 235	1.34	0.42	58.0	60.1	0.76	0.08
Russia	10 775	11 238	0.76	0.19	59.8	63.7	0.75	0.43
Ukraine	2 154	2 125	-1.55	0.40	40.4	43.0	-0.98	1.15
AFRICA	20 713	27 445	2.30	2.57	12.7	13.1	-0.18	0.29
Egypt	2 509	3 496	0.56	3.16	20.0	23.3	-1.25	1.64
Ethiopia	753	918	3.97	1.74	5.1	4.8	1.44	-0.51
Nigeria	1 283	1 493	1.32	1.47	5.0	4.5	-1.19	-0.93
South Africa	3 778	4 295	1.80	1.16	52.6	53.2	0.41	0.15
ASIA	149 784	181 671	1.10	1.15	26.3	29.6	0.22	0.53
China ²	82 995	99 809	-0.09	0.65	46.3	54.7	-0.51	0.54
India	6 118	8 941	3.12	3.25	3.7	5.0	2.10	2.51
Indonesia	5 053	6 317	8.75	1.93	15.7	17.8	7.77	1.08
Iran	3 080	3 780	1.50	1.69	31.0	34.4	0.10	0.79
Japan	6 530	6 425	1.59	-0.11	41.5	43.0	1.83	0.39
Kazakhstan	1 307	1 589	3.08	1.28	55.0	60.8	1.68	0.42
Korea	4 026	4 283	3.53	0.36	62.2	66.4	3.29	0.41
Malaysia	2 152	2 788	1.32	2.23	56.5	65.4	-0.01	1.22
Pakistan	4 634	6 399	6.68	2.58	16.6	19.2	4.71	0.92
Philippines	3 788	5 454	1.16	3.66	28.4	35.9	-0.09	2.47
Saudi Arabia	1 850	2 254	1.02	1.39	45.7	48.8	-1.10	0.25
Thailand	1 592	1 631	-3.09	0.70	18.5	18.9	-3.53	0.67
Türkiye	2 778	3 082	1.66	1.11	26.9	28.2	0.15	0.56
Viet Nam	6 193	7 533	2.23	1.64	50.6	57.6	1.43	1.04
OCEANIA	3 918	4 389	2.45	0.87	75.6	75.0	1.01	-0.23
Australia	3 237	3 594	2.68	0.80	101.9	102.2	1.30	-0.13
New Zealand	424	469	1.12	0.69	72.2	74.2	0.38	0.04
DEVELOPED COUNTRIES	123 141	129 040	1.32	0.38	69.0	70.8	0.97	0.21
DEVELOPING COUNTRIES	204 542	248 166	1.20	1.27	26.2	28.3	0.01	0.25
LEAST DEVELOPED COUNTRIES (LDC)	12 448	17 161	3.06	2.95	11.2	12.3	0.72	0.81
OECD³	120 817	127 640	1.63	0.44	69.5	71.4	1.14	0.20
BRICS	124 186	146 371	0.30	0.73	31.0	34.6	-0.35	0.30

Note: Calendar year; except year ending 30 June for New Zealand. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	70 556	76 384	0.92	0.61	11 011	12 782	4.45	0.99	10 680	12 525	2.63	0.99
NORTH AMERICA	13 590	14 111	1.47	0.33	1 696	1 800	2.86	0.16	1 981	2 231	4.50	0.88
Canada	1 534	1 575	1.80	0.20	223	304	-2.21	2.29	555	616	7.07	0.70
United States	12 056	12 536	1.43	0.35	1 474	1 496	3.89	-0.22	1 426	1 616	3.65	0.95
LATIN AMERICA	18 041	19 987	0.47	0.56	808	885	0.65	0.46	4 074	5 141	7.28	1.19
Argentina	3 101	3 415	2.04	0.76	7	7	0.00	-0.05	715	936	20.16	1.86
Brazil	8 727	9 377	-0.63	0.29	39	41	-3.28	0.00	1 964	2 351	5.84	1.05
Chile	235	255	1.00	0.55	369	423	8.71	0.79	23	21	18.48	-0.78
Colombia	818	890	-1.33	0.35	8	22	13.28	2.12	44	85	15.13	1.55
Mexico	2 054	2 178	1.73	0.52	126	115	-1.70	-0.65	271	300	9.13	1.39
Paraguay	530	851	5.42	2.80	5	4	12.03	-0.17	364	654	3.50	3.24
Peru	188	203	-0.32	0.67	10	7	7.43	-2.99	0	0	..	..
EUROPE	10 771	10 177	0.48	-0.51	1 207	1 134	-3.16	-0.81	1 098	1 177	3.93	0.47
European Union ¹	7 166	6 612	0.68	-0.76	338	390	0.07	1.18	591	644	3.84	0.63
United Kingdom	912	870	0.69	-0.15	333	387	1.13	0.54	152	111	1.06	-1.13
Russia	1 634	1 669	0.13	0.17	372	196	-9.43	-5.66	75	85	38.86	-1.22
Ukraine	352	288	-2.19	-0.97	7	9	4.20	-1.33	39	52	7.89	3.16
AFRICA	6 373	7 660	1.20	1.86	489	917	-2.14	5.12	90	136	-3.08	5.38
Egypt	566	808	-4.50	2.17	294	366	2.81	0.88	1	1	15.43	-0.08
Ethiopia	445	504	2.12	1.24	0	0	..	..	0	0	31.92	..
Nigeria	277	296	-0.98	0.62	2	3	-3.69	0.91	0	0	..	..
South Africa	1 096	1 299	2.37	1.47	10	10	-19.92	1.91	56	127	4.50	8.48
ASIA	18 719	20 966	1.50	0.90	6 773	8 012	8.55	1.13	1 681	1 739	-1.53	0.00
China ²	6 740	7 216	1.31	0.51	2 536	3 255	42.13	0.85	16	20	-11.05	0.03
India	2 425	2 683	-0.73	0.35	0	0	..	..	1 330	1 433	-2.40	0.18
Indonesia	386	421	-2.10	1.03	246	348	21.62	1.78	1	1	-3.53	-0.14
Iran	483	606	3.39	0.69	97	62	-3.82	8.00	6	7	12.32	-1.59
Japan	477	460	-0.77	-0.43	859	844	2.36	0.00	9	13	30.46	0.00
Kazakhstan	515	592	4.23	1.18	66	71	0.20	0.35	9	7	38.12	-0.90
Korea	294	309	-1.53	0.48	569	610	7.65	0.46	5	4	0.86	-1.98
Malaysia	29	33	0.40	0.78	199	227	1.39	0.82	11	13	-0.66	-0.81
Pakistan	2 306	2 907	5.01	1.96	1	1	-6.29	0.39	67	41	7.11	-3.55
Philippines	180	166	-7.48	-0.67	171	274	5.73	3.61	4	4	-1.51	-1.20
Saudi Arabia	41	44	-1.64	1.16	172	213	0.62	1.27	11	9	-10.53	-1.26
Thailand	185	170	-3.21	-0.06	25	30	-4.89	-0.04	46	51	-1.69	0.04
Türkiye	974	1 044	2.74	1.61	6	3	-8.86	-0.50	28	69	4.96	2.29
Viet Nam	448	522	3.35	0.83	370	275	-9.49	1.68	1	1	37.26	-0.16
OCEANIA	3 062	3 484	-1.10	1.21	37	33	0.80	0.00	1 756	2 101	-2.76	1.59
Australia	2 329	2 730	-1.99	1.47	18	14	5.95	0.00	1 103	1 460	-5.22	2.18
New Zealand	724	747	2.13	0.35	10	10	1.32	0.02	650	638	2.98	0.40
DEVELOPED COUNTRIES	31 108	31 969	0.96	0.25	4 076	4 162	0.57	-0.01	4 911	5 657	1.34	1.16
DEVELOPING COUNTRIES	39 449	44 415	0.89	0.87	6 935	8 620	7.50	1.51	5 770	6 868	3.86	0.86
LEAST DEVELOPED COUNTRIES (LDC)	3 848	4 658	2.04	1.90	89	340	-4.05	9.95	13	5	0.51	-8.64
OECD³	29 879	30 527	0.85	0.21	4 530	4 875	3.17	0.44	4 861	5 581	1.49	1.10
BRICS	20 622	22 245	0.17	0.43	2 957	3 502	14.70	0.34	3 442	4 016	2.06	0.83

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	70 684	76 386	1.12	0.61	6.4	6.2	0.00	-0.29
NORTH AMERICA	13 556	13 921	1.19	0.20	25.7	24.8	0.51	-0.36
Canada	1 012	1 079	0.39	0.54	18.8	18.4	-0.57	-0.23
United States	12 544	12 842	1.26	0.17	26.5	25.6	0.60	-0.37
LATIN AMERICA	14 300	15 244	-1.01	0.35	15.3	15.1	-1.97	-0.38
Argentina	2 393	2 487	-0.57	0.38	37.1	35.2	-1.54	-0.42
Brazil	6 714	6 969	-1.85	0.00	22.1	21.7	-2.63	-0.47
Chile	560	635	4.63	0.77	20.5	22.8	3.41	0.61
Colombia	728	763	-2.06	0.29	10.0	10.0	-3.29	-0.18
Mexico	1 661	1 751	1.08	0.48	9.0	8.6	-0.09	-0.36
Paraguay	168	197	10.60	1.46	16.5	17.2	9.17	0.41
Peru	198	210	-0.02	0.53	4.2	4.1	-1.44	-0.32
EUROPE	10 660	9 973	-0.57	-0.58	10.0	9.4	-0.70	-0.47
European Union ¹	6 680	6 196	0.23	-0.67	10.5	9.8	0.11	-0.58
United Kingdom	1 093	1 145	0.76	0.18	11.3	11.3	0.14	-0.17
Russia	1 952	1 787	-3.52	-0.60	9.4	8.8	-3.67	-0.38
Ukraine	314	239	-3.13	-1.71	5.0	4.1	-2.65	-1.03
AFRICA	6 878	8 625	1.02	2.16	3.6	3.5	-1.51	-0.13
Egypt	891	1 204	-2.47	1.70	6.1	6.9	-4.49	0.09
Ethiopia	421	500	2.48	1.58	2.6	2.4	-0.22	-0.68
Nigeria	329	375	-0.74	1.17	1.1	1.0	-3.29	-1.23
South Africa	987	1 103	0.60	1.06	11.7	11.6	-0.82	0.04
ASIA	24 222	27 586	3.42	0.99	3.7	3.9	2.45	0.34
China ²	9 358	10 474	5.47	0.55	4.6	5.0	4.97	0.43
India	1 095	1 250	2.24	0.54	0.6	0.6	1.15	-0.28
Indonesia	777	936	3.54	1.26	2.0	2.2	2.32	0.40
Iran	577	662	2.90	1.22	4.8	5.0	1.54	0.31
Japan	1 326	1 293	1.19	-0.16	7.3	7.5	1.40	0.35
Kazakhstan	574	659	3.54	1.10	21.4	22.2	2.10	0.21
Korea	854	914	3.45	0.48	11.7	12.5	3.18	0.53
Malaysia	233	263	0.73	0.85	5.0	5.1	-0.61	-0.19
Pakistan	2 230	2 857	4.94	2.08	7.1	7.5	2.80	0.38
Philippines	354	443	-2.14	1.78	2.3	2.5	-3.56	0.60
Saudi Arabia	202	249	1.20	1.35	4.1	4.4	-0.91	0.21
Thailand	121	111	-3.30	-0.14	1.2	1.1	-3.63	-0.17
Türkiye	974	994	1.77	1.51	8.1	7.8	0.27	0.98
Viet Nam	838	809	-3.35	1.10	6.0	5.4	-4.31	0.47
OCEANIA	1 069	1 037	2.37	-0.01	17.9	15.3	0.93	-1.14
Australia	976	949	3.21	0.05	26.8	23.4	1.86	-0.90
New Zealand	76	75	-3.84	-0.55	11.0	10.1	-4.73	-1.22
DEVELOPED COUNTRIES	30 033	30 163	0.71	0.04	14.7	14.4	0.30	-0.14
DEVELOPING COUNTRIES	40 652	46 223	1.43	0.99	4.5	4.6	0.14	-0.06
LEAST DEVELOPED COUNTRIES (LDC)	3 992	5 111	2.26	2.30	3.1	3.2	-0.08	0.14
OECD³	29 055	29 283	1.05	0.08	14.6	14.2	0.51	-0.18
BRICS	20 106	21 583	1.17	0.30	4.3	4.4	0.41	-0.16

Note: Calendar year; except year ending 30 June for New Zealand. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	110 613	128 895	-0.48	0.63	11 617	10 470	6.37	-1.19	11 623	10 201	5.07	-1.32
NORTH AMERICA	14 690	15 415	2.45	0.82	729	839	2.12	-0.44	4 655	4 644	3.82	0.27
Canada	2 189	2 191	1.56	0.01	271	278	2.51	-0.04	1 535	1 488	2.93	-0.21
United States	12 501	13 225	2.61	0.96	458	562	1.93	-0.63	3 119	3 156	4.28	0.50
LATIN AMERICA	8 744	9 814	2.93	0.87	1 781	2 263	8.09	1.51	1 477	1 366	8.86	-0.51
Argentina	647	730	7.53	0.94	28	25	7.76	1.36	33	18	24.46	-1.35
Brazil	4 254	4 578	2.98	0.62	2	1	-8.85	-2.08	851	699	8.32	-1.23
Chile	565	622	0.32	0.21	153	183	22.65	0.15	262	276	6.46	-0.15
Colombia	441	577	8.26	1.68	127	199	14.00	1.61	0	0	..	..
Mexico	1 624	1 772	3.80	0.53	1 061	1 387	6.78	2.07	302	345	14.27	1.00
Paraguay	63	80	9.60	1.47	4	5	5.66	0.41	6	5	15.42	-0.52
Peru	173	225	4.26	2.08	10	27	6.80	9.41	0	0	..	..
EUROPE	30 405	29 573	1.51	-0.54	1 231	1 343	-6.85	0.84	5 237	3 882	5.94	-3.35
European Union ¹	23 397	22 075	0.94	-0.81	160	177	0.99	-0.01	4 727	3 561	6.21	-3.44
United Kingdom	933	952	2.21	-0.14	748	762	0.40	0.28	269	222	4.28	-2.00
Russia	4 210	4 639	6.21	0.51	69	57	-31.00	3.05	165	30	25.99	-2.75
Ukraine	707	778	-0.20	0.56	42	47	-11.39	1.54	5	8	-15.75	-0.22
AFRICA	1 593	1 955	3.58	2.09	275	531	2.19	5.83	30	28	2.62	-2.97
Egypt	1	1	4.74	-1.70	2	3	31.97	3.19	0	0	..	..
Ethiopia	2	3	1.90	1.90	0	1	..	..	0	0	..	..
Nigeria	296	323	2.30	1.28	5	13	33.26	4.97	0	0	..	..
South Africa	303	364	4.68	0.80	31	40	-1.99	3.39	26	23	2.77	-3.28
ASIA	54 612	71 492	-2.59	1.03	7 161	4 982	12.13	-3.36	191	245	-4.90	2.57
China ²	42 580	57 051	-3.41	0.78	4 044	1 749	25.69	-6.60	69	95	-11.45	2.68
India	342	374	-0.47	1.24	1	1	2.94	0.10	1	2	25.10	-0.10
Indonesia	252	303	-2.36	1.84	3	6	3.52	3.64	0	0	..	..
Iran	0	0	..	..	1	0	157.39	..	1	0	125.69	..
Japan	1 313	1 282	0.25	-0.06	1 340	1 338	2.84	0.01	2	4	5.30	1.49
Kazakhstan	88	92	-1.96	-0.10	40	61	-1.20	1.92	1	1	17.28	-0.33
Korea	1 380	1 372	2.36	-0.01	631	760	4.32	0.85	6	3	8.15	-5.85
Malaysia	220	227	0.20	0.53	23	36	5.85	3.85	4	3	-6.84	-1.69
Pakistan	0	0	..	..	0	0	..	..	0	0	..	..
Philippines	1 432	2 158	-2.60	6.81	184	129	7.82	-12.50	2	3	-4.37	1.63
Saudi Arabia	0	0	..	..	17	16	13.96	0.00	2	2	15.77	0.00
Thailand	1 105	1 242	0.75	1.64	1	1	-18.71	0.27	45	65	5.17	7.25
Türkiye	0	0	..	..	20	27	4.69	0.00	20	27	4.69	0.00
Viet Nam	3 534	4 546	1.46	2.03	179	31	71.96	-21.88	16	14	-4.00	3.08
OCEANIA	569	647	2.05	1.07	441	512	3.14	0.92	33	36	2.60	0.49
Australia	426	489	2.67	1.08	361	409	2.58	0.67	31	35	2.15	0.56
New Zealand	45	47	-0.88	0.54	69	83	5.94	1.47	1	1	..	0.01
DEVELOPED COUNTRIES	47 338	47 343	1.76	-0.07	3 843	4 175	-1.44	0.35	9 958	8 595	4.88	-1.53
DEVELOPING COUNTRIES	63 274	81 552	-1.91	1.05	7 773	6 295	13.28	-2.09	1 665	1 606	6.23	-0.10
LEAST DEVELOPED COUNTRIES (LDC)	2 195	2 948	4.88	3.11	146	334	1.63	7.07	1	1	-5.76	-0.53
OECD³	45 191	44 990	1.60	-0.09	5 425	6 189	3.68	0.62	10 281	9 124	5.16	-1.38
BRICS	51 689	67 006	-2.36	0.75	4 146	1 849	13.37	-6.28	1 112	849	6.67	-1.00

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	110 471	128 893	-0.39	0.63	11.1	11.7	-1.49	-0.26
NORTH AMERICA	10 773	11 607	1.92	0.97	22.8	23.1	1.23	0.41
Canada	775	832	0.13	0.27	16.0	15.8	-0.82	-0.49
United States	9 998	10 775	2.06	1.03	23.6	23.9	1.41	0.48
LATIN AMERICA	9 070	10 718	2.99	1.20	10.8	11.8	1.99	0.47
Argentina	642	737	6.94	1.02	11.1	11.6	5.90	0.22
Brazil	3 405	3 880	1.92	1.02	12.5	13.5	1.11	0.55
Chile	456	530	1.12	0.38	18.6	21.2	-0.06	0.22
Colombia	568	776	9.34	1.66	8.7	11.3	7.97	1.18
Mexico	2 405	2 821	4.03	1.20	14.5	15.5	2.83	0.35
Paraguay	61	80	8.89	1.55	6.7	7.7	7.48	0.50
Peru	183	252	4.43	2.62	4.3	5.4	2.94	1.75
EUROPE	26 382	27 017	0.25	0.00	27.5	28.4	0.11	0.11
European Union ¹	18 802	18 666	-0.08	-0.21	32.9	33.0	-0.20	-0.12
United Kingdom	1 413	1 490	0.89	0.38	16.2	16.4	0.26	0.03
Russia	4 109	4 660	2.16	0.56	22.0	25.4	2.00	0.79
Ukraine	746	820	-2.19	0.62	13.3	15.8	-1.70	1.32
AFRICA	1 838	2 458	3.36	2.86	1.1	1.1	0.76	0.55
Egypt	3	3	22.60	2.14	0.0	0.0	20.07	0.52
Ethiopia	2	4	1.11	5.47	0.0	0.0	-1.55	3.12
Nigeria	302	337	2.53	1.39	1.1	1.0	-0.11	-1.02
South Africa	308	381	3.98	1.36	4.0	4.5	2.52	0.34
ASIA	61 432	75 970	-1.53	0.66	10.4	11.9	-2.46	0.00
China ²	46 506	58 607	-2.33	0.45	25.2	31.2	-2.79	0.33
India	341	373	-0.51	1.24	0.2	0.2	-1.57	0.42
Indonesia	241	300	-2.28	2.08	0.7	0.8	-3.42	1.21
Iran	0	0	..	..	0.0	0.0	23.39	-0.90
Japan	2 650	2 616	1.48	-0.03	16.3	17.0	1.69	0.47
Kazakhstan	127	152	-1.72	0.66	5.3	5.7	-3.09	-0.22
Korea	2 000	2 129	3.02	0.30	30.4	32.5	2.75	0.36
Malaysia	239	261	0.83	0.95	5.8	5.6	-0.51	-0.08
Pakistan	0	0	..	..	0.0	0.0	21.31	-1.67
Philippines	1 614	2 284	-1.47	4.09	11.5	14.3	-2.91	2.88
Saudi Arabia	15	14	15.48	0.00	0.3	0.3	13.07	-1.13
Thailand	849	883	-1.23	0.91	9.5	9.8	-1.56	0.87
Türkiye	0	0	..	..	0.0	0.0	-1.48	-1.22
Viet Nam	3 698	4 565	2.19	1.40	29.6	34.0	1.18	0.76
OCEANIA	977	1 123	2.53	1.02	18.2	18.4	1.09	-0.12
Australia	756	863	2.68	0.90	23.1	23.7	1.34	-0.06
New Zealand	113	129	2.68	1.13	18.2	19.3	1.73	0.45
DEVELOPED COUNTRIES	41 216	42 902	0.79	0.29	22.4	22.8	0.38	0.10
DEVELOPING COUNTRIES	69 256	85 991	-1.04	0.80	8.5	9.4	-2.30	-0.24
LEAST DEVELOPED COUNTRIES (LDC)	2 351	3 293	4.62	3.44	2.1	2.3	2.22	1.25
OECD³	40 331	42 033	1.10	0.32	22.5	22.8	0.56	0.06
BRICS	54 669	67 901	-1.78	0.50	13.2	15.5	-2.51	0.05

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	132 476	153 850	2.82	1.39	13 831	16 081	2.23	0.90	15 496	16 081	2.46	0.90
NORTH AMERICA	24 146	25 969	2.03	0.73	253	281	-0.50	0.57	3 714	3 605	-0.32	0.42
Canada	1 462	1 648	2.36	1.25	180	205	-1.12	0.77	145	160	-4.76	1.04
United States	22 684	24 321	2.01	0.70	73	76	1.16	0.04	3 569	3 445	-0.10	0.39
LATIN AMERICA	27 575	31 315	2.00	1.16	2 358	2 741	2.84	0.74	4 685	5 067	1.03	1.30
Argentina	2 306	2 551	1.76	1.35	6	7	-10.44	-1.88	235	280	-2.24	2.32
Brazil	14 447	15 588	1.88	0.66	5	0	296.33	..	4 194	4 503	1.13	1.29
Chile	762	906	1.74	1.55	153	164	8.69	-0.91	180	205	5.41	0.91
Colombia	1 670	2 212	4.34	2.57	112	129	9.19	1.18	0	0	-42.05	..
Mexico	3 603	4 068	3.34	1.06	1 052	1 167	3.14	0.55	4	7	0.25	6.96
Paraguay	51	70	10.70	2.56	25	28	1.80	0.40	6	6	279.19	-0.40
Peru	1 742	2 301	4.60	2.56	88	64	15.96	-6.20	1	1	-27.90	0.54
EUROPE	22 128	22 669	2.90	0.30	2 194	2 334	-1.43	-0.07	3 733	3 433	6.02	-0.40
European Union ¹	13 587	13 896	2.62	0.21	756	827	-2.96	0.90	2 355	2 063	3.39	-0.44
United Kingdom	1 849	1 790	2.29	-0.47	564	748	2.05	1.27	361	249	2.61	-4.19
Russia	4 597	4 820	3.98	0.60	257	145	-9.31	-7.26	345	385	30.89	1.39
Ukraine	1 165	1 206	2.06	1.12	361	340	5.84	-0.56	443	486	19.96	0.56
AFRICA	6 716	8 917	3.42	2.83	2 174	3 477	3.30	3.14	178	145	6.86	-1.70
Egypt	1 533	2 199	5.61	4.06	25	14	-20.15	5.94	2	1	-4.95	-1.72
Ethiopia	64	78	0.25	1.73	1	1	..	0.35	0	0	..	..
Nigeria	238	281	2.22	1.58	0	0	..	..	0	0	..	..
South Africa	1 881	2 300	2.05	1.73	487	400	2.54	-1.26	65	68	-2.36	0.90
ASIA	50 311	63 108	3.57	2.03	6 771	7 121	3.16	0.32	3 130	3 781	4.83	2.33
China ²	21 164	24 448	2.48	1.30	1 284	799	12.32	-4.70	622	493	-0.07	-0.76
India	3 862	6 379	4.23	4.37	1	1	22.88	0.73	5	3	-6.34	-3.74
Indonesia	3 897	4 931	11.50	2.10	0	0	-27.84	..	2	2	-6.39	1.83
Iran	2 223	2 865	1.57	2.33	24	55	-22.14	-1.38	67	139	-2.94	6.07
Japan	1 656	1 612	1.68	-0.08	884	888	2.59	-0.30	8	6	-1.26	0.00
Kazakhstan	235	372	9.53	1.90	216	250	2.29	1.75	16	23	22.55	-1.68
Korea	1 003	1 031	4.43	0.24	200	233	4.69	1.00	52	44	6.91	-0.07
Malaysia	1 765	2 326	1.68	2.24	85	103	7.50	1.19	206	206	6.36	-1.18
Pakistan	1 669	2 591	8.96	3.25	1	1	-15.91	0.12	9	8	10.24	-1.19
Philippines	1 430	1 913	3.59	3.00	358	771	15.92	5.56	1	2	-23.34	-0.42
Saudi Arabia	874	1 279	7.91	3.34	630	566	-4.40	-1.73	48	56	4.06	1.66
Thailand	1 836	2 197	1.31	1.72	3	3	-13.39	0.69	1 222	1 566	6.76	2.23
Türkiye	2 308	2 973	3.34	2.65	47	53	2.79	-0.84	668	1 057	7.30	6.42
Viet Nam	1 432	1 933	8.73	2.38	221	212	2.10	2.71	17	10	61.08	-0.56
OCEANIA	1 598	1 872	2.84	1.24	82	127	7.30	3.06	57	50	1.38	0.41
Australia	1 333	1 574	2.69	1.27	0	0	..	..	40	35	-0.29	0.18
New Zealand	233	263	3.88	1.00	1	1	64.57	0.00	16	15	6.63	1.00
DEVELOPED COUNTRIES	52 469	55 810	2.44	0.61	4 310	4 530	0.27	0.04	7 615	7 197	2.41	0.00
DEVELOPING COUNTRIES	80 006	98 040	3.07	1.86	9 522	11 551	3.21	1.27	7 881	8 884	2.52	1.70
LEAST DEVELOPED COUNTRIES (LDC)	3 185	4 332	3.47	2.91	982	1 811	3.02	4.43	65	40	24.22	-4.16
OECD³	52 976	57 253	2.45	0.75	4 074	4 552	1.43	0.53	7 414	7 290	1.61	0.63
BRICS	45 951	53 535	2.55	1.38	2 033	1 344	4.53	-4.16	5 230	5 452	1.72	1.08

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

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

Calendar year

	CONSUMPTION (kt rtc)		Growth (%) ⁴		FOOD (kg rwe/cap) ⁵		Growth (%) ⁴	
	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	130 832	153 846	2.80	1.39	14.8	15.8	1.66	0.49
NORTH AMERICA	20 717	22 643	2.52	0.80	49.4	50.8	1.83	0.24
Canada	1 496	1 695	2.85	1.22	34.9	36.3	1.87	0.45
United States	19 220	20 949	2.50	0.77	51.1	52.4	1.84	0.23
LATIN AMERICA	25 248	28 990	2.26	1.09	34.1	36.0	1.28	0.36
Argentina	2 077	2 277	2.25	1.23	40.4	40.6	1.25	0.43
Brazil	10 258	11 085	2.21	0.42	42.5	43.4	1.40	-0.05
Chile	735	865	2.13	1.19	33.9	39.0	0.94	1.03
Colombia	1 782	2 342	4.63	2.49	30.9	38.4	3.32	2.00
Mexico	4 651	5 227	3.29	0.93	31.7	32.4	2.10	0.09
Paraguay	70	91	5.56	2.08	8.7	10.0	4.19	1.02
Peru	1 829	2 364	5.08	2.21	48.8	57.3	3.58	1.36
EUROPE	20 577	21 569	1.88	0.37	24.2	25.6	1.75	0.48
European Union ¹	11 978	12 660	2.05	0.36	23.7	25.2	1.93	0.45
United Kingdom	2 052	2 290	2.19	0.61	26.6	28.5	1.56	0.25
Russia	4 506	4 580	1.84	0.16	27.2	28.2	1.69	0.39
Ukraine	1 083	1 059	-0.50	0.80	21.8	23.0	0.00	1.49
AFRICA	8 712	12 249	3.34	2.99	5.8	6.3	0.74	0.67
Egypt	1 555	2 212	4.35	4.08	13.4	15.9	2.20	2.42
Ethiopia	64	79	0.30	1.72	0.5	0.5	-2.34	-0.55
Nigeria	238	281	2.22	1.58	1.0	0.9	-0.41	-0.83
South Africa	2 303	2 631	2.32	1.23	34.2	34.8	0.88	0.22
ASIA	53 954	66 446	3.46	1.82	10.3	11.8	2.49	1.16
China ²	21 826	24 754	2.99	1.08	13.3	14.9	2.50	0.96
India	3 859	6 377	4.26	4.37	2.5	3.7	3.15	3.52
Indonesia	3 895	4 929	11.51	2.10	12.5	14.4	10.20	1.23
Iran	2 180	2 781	1.72	2.09	22.8	26.2	0.37	1.17
Japan	2 532	2 494	1.95	-0.16	17.6	18.3	2.16	0.34
Kazakhstan	435	600	5.20	2.00	20.4	25.4	3.74	1.10
Korea	1 152	1 221	4.36	0.39	19.8	21.0	4.09	0.44
Malaysia	1 643	2 224	1.44	2.57	44.7	53.7	0.09	1.52
Pakistan	1 661	2 584	8.92	3.26	6.6	8.5	6.70	1.54
Philippines	1 787	2 682	5.41	3.68	14.4	18.9	3.87	2.47
Saudi Arabia	1 457	1 789	1.17	1.49	36.8	39.7	-0.94	0.35
Thailand	618	634	-5.18	0.57	7.8	7.9	-5.51	0.54
Türkiye	1 688	1 969	1.78	1.00	17.6	19.3	0.28	0.48
Viet Nam	1 636	2 134	6.51	2.43	14.8	17.9	5.45	1.79
OCEANIA	1 624	1 949	3.08	1.37	34.2	36.1	1.63	0.23
Australia	1 293	1 539	2.79	1.30	44.6	47.6	1.44	0.33
New Zealand	217	249	3.72	1.00	39.6	42.2	2.76	0.32
DEVELOPED COUNTRIES	49 184	53 140	2.25	0.65	30.2	31.9	1.84	0.46
DEVELOPING COUNTRIES	81 648	100 706	3.15	1.80	11.4	12.5	1.84	0.75
LEAST DEVELOPED COUNTRIES (LDC)	4 103	6 102	3.19	3.41	4.1	4.8	0.82	1.22
OECD³	49 658	54 512	2.52	0.75	31.3	33.3	1.97	0.49
BRICS	42 752	49 428	2.75	1.22	11.6	12.7	1.98	0.76

Note: Calendar year; except year ending 30 June for New Zealand. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	15 640	18 076	2.03	1.21	1 104	1 086	0.59	0.20	1 143	1 229	0.81	0.60
NORTH AMERICA	88	96	-1.16	0.75	155	161	7.05	-0.19	2	2	-9.39	0.12
Canada	17	18	0.40	0.82	21	22	2.02	0.00	0	0	..	..
United States	71	78	-1.50	0.73	134	139	8.07	-0.22	2	1	-9.38	0.13
LATIN AMERICA	456	497	1.06	0.49	14	9	-10.04	0.20	27	34	1.98	-0.35
Argentina	53	57	-1.49	0.69	0	0	..	..	4	5	5.35	0.45
Brazil	139	154	2.56	0.79	3	2	-11.34	1.73	0	0	..	..
Chile	14	13	-0.66	-1.45	0	0	..	..	6	5	1.03	-2.33
Colombia	1	1	3.73	-0.09	0	0	..	..	0	0	..	..
Mexico	105	110	0.98	0.40	4	1	-17.11	-1.76	1	2	..	0.00
Paraguay	3	3	-4.80	0.82	0	0	..	..	0	0	..	..
Peru	38	38	-1.07	-0.29	0	0	..	..	0	0	..	..
EUROPE	1 288	1 299	0.63	0.20	243	191	-3.02	-2.25	162	152	0.47	0.51
European Union ¹	640	664	0.49	0.44	149	104	-2.03	-2.78	55	76	5.61	3.62
United Kingdom	308	300	0.43	0.03	85	78	-3.74	-1.67	94	68	-2.52	-2.21
Russia	215	210	1.59	-0.20	2	1	-20.37	-2.54	6	0	79.78	..
Ukraine	12	7	-5.19	-2.49	0	1	..	-1.39	0	0	..	..
AFRICA	3 341	4 156	2.05	2.01	12	8	-21.78	-1.54	33	39	-0.80	1.43
Egypt	59	76	-10.29	2.56	0	0	-34.48	..	0	0	..	..
Ethiopia	279	352	7.45	2.01	0	0	..	..	14	17	-0.91	4.18
Nigeria	411	497	1.80	1.70	0	0	..	..	0	0	..	..
South Africa	177	182	-0.14	0.49	3	1	-20.88	-6.52	2	5	3.52	4.95
ASIA	9 339	10 768	2.57	1.15	658	692	3.69	1.11	28	18	-6.96	0.00
China ²	4 932	5 578	2.51	1.01	374	396	9.48	0.51	0	0	-32.25	..
India	845	959	1.63	1.18	0	0	..	..	11	6	-7.18	-2.34
Indonesia	140	150	3.90	0.64	2	1	-0.03	3.52	0	0	..	..
Iran	327	355	-2.59	-0.37	13	0	0.18	..	0	0	..	..
Japan	0	0	..	..	22	22	0.10	-0.33	0	0	..	..
Kazakhstan	172	179	1.30	0.26	0	0	..	..	2	1	169.95	-0.28
Korea	2	2	5.38	0.00	18	18	17.78	-0.47	0	0	..	..
Malaysia	1	0	-10.63	..	33	38	3.94	2.35	0	0	..	..
Pakistan	748	964	7.38	2.35	0	0	..	..	6	5	-13.20	1.66
Philippines	33	44	-7.22	2.23	1	1	-3.77	6.34	0	0	..	..
Saudi Arabia	0	0	..	..	22	27	-11.65	1.33	1	0	-16.65	..
Thailand	2	3	3.77	0.31	1	0	-2.64	-2.85	0	0	..	..
Türkiye	117	121	-0.36	-0.15	0	0	..	..	1	2	..	5.57
Viet Nam	21	25	13.28	1.43	0	0	-26.11	..	0	0	..	..
OCEANIA	1 128	1 259	0.09	0.69	22	24	-4.01	0.53	892	985	1.22	0.64
Australia	680	806	0.70	1.03	0	0	..	..	454	538	2.12	1.10
New Zealand	448	453	-0.76	0.13	3	3	-1.84	0.00	438	447	0.34	0.11
DEVELOPED COUNTRIES	3 417	3 666	0.54	0.64	429	381	-0.33	-1.32	1 061	1 145	1.12	0.64
DEVELOPING COUNTRIES	12 222	14 410	2.47	1.37	675	705	1.35	1.12	82	85	-2.64	0.23
LEAST DEVELOPED COUNTRIES (LDC)	2 039	2 667	2.30	2.53	2	2	-1.54	0.30	4	1	0.54	-16.96
OECD³	2 442	2 610	0.19	0.49	446	396	0.45	-1.26	1 051	1 138	1.01	0.61
BRICS	6 308	7 082	2.28	0.98	382	400	7.49	0.48	19	11	-3.64	0.31

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	15 695	18 081	2.07	1.21	1.8	1.9	0.94	0.31
NORTH AMERICA	236	249	3.91	0.16	0.6	0.6	3.21	-0.40
Canada	38	40	1.11	0.36	0.9	0.9	0.15	-0.40
United States	198	209	4.53	0.12	0.5	0.5	3.85	-0.42
LATIN AMERICA	443	472	0.37	0.53	0.6	0.6	-0.60	-0.20
Argentina	50	53	-1.84	0.71	1.0	0.9	-2.79	-0.09
Brazil	142	155	1.99	0.75	0.6	0.6	1.18	0.27
Chile	8	8	-1.64	-0.85	0.4	0.3	-2.79	-1.01
Colombia	1	1	4.19	0.12	0.0	0.0	2.88	-0.35
Mexico	108	110	-0.54	0.38	0.7	0.7	-1.69	-0.46
Paraguay	3	3	-4.79	0.82	0.3	0.4	-6.02	-0.22
Peru	38	38	-1.07	-0.29	1.0	0.9	-2.48	-1.13
EUROPE	1 306	1 299	-0.42	-0.04	1.5	1.5	-0.55	0.07
European Union ¹	676	656	-0.90	-0.06	1.3	1.3	-1.02	0.03
United Kingdom	299	310	0.05	0.12	3.9	3.9	-0.57	-0.23
Russia	208	210	0.49	-0.22	1.3	1.3	0.34	0.01
Ukraine	12	7	-5.99	-2.74	0.2	0.1	-5.52	-2.06
AFRICA	3 284	4 113	1.89	2.05	2.2	2.1	-0.67	-0.25
Egypt	59	77	-14.00	2.56	0.5	0.5	-15.77	0.93
Ethiopia	265	335	8.23	1.95	2.0	2.0	5.38	-0.33
Nigeria	414	501	1.86	1.68	1.8	1.6	-0.76	-0.73
South Africa	180	179	-1.09	0.33	2.7	2.4	-2.48	-0.68
ASIA	10 177	11 668	2.63	1.15	1.9	2.1	1.66	0.50
China ²	5 305	5 973	2.87	0.98	3.2	3.6	2.38	0.86
India	823	941	1.64	1.22	0.5	0.5	0.56	0.39
Indonesia	141	152	3.86	0.66	0.5	0.4	2.64	-0.19
Iran	323	337	-1.86	-0.40	3.4	3.2	-3.16	-1.30
Japan	22	22	0.10	-0.33	0.2	0.2	0.31	0.18
Kazakhstan	171	178	1.11	0.27	8.0	7.5	-0.30	-0.61
Korea	20	20	15.88	-0.43	0.3	0.3	15.58	-0.38
Malaysia	37	41	3.07	2.06	1.0	1.0	1.70	1.01
Pakistan	743	959	7.73	2.35	3.0	3.2	5.54	0.65
Philippines	33	44	-7.16	2.28	0.3	0.3	-8.52	1.09
Saudi Arabia	176	201	-1.02	0.68	4.4	4.5	-3.08	-0.45
Thailand	3	3	-0.83	-0.29	0.0	0.0	-1.17	-0.33
Türkiye	117	119	-0.75	-0.23	1.2	1.2	-2.22	-0.75
Viet Nam	22	25	8.66	1.42	0.2	0.2	7.59	0.79
OCEANIA	249	279	-1.15	0.30	5.2	5.2	-2.54	-0.83
Australia	212	243	-0.15	0.39	7.3	7.5	-1.46	-0.58
New Zealand	18	16	-6.91	-1.23	3.3	2.6	-7.78	-1.89
DEVELOPED COUNTRIES	2 709	2 836	0.31	0.39	1.7	1.7	-0.10	0.20
DEVELOPING COUNTRIES	12 986	15 245	2.47	1.37	1.8	1.9	1.17	0.32
LEAST DEVELOPED COUNTRIES (LDC)	2 003	2 654	2.71	2.62	2.0	2.1	0.35	0.45
OECD³	1 772	1 812	-0.01	0.07	1.1	1.1	-0.54	-0.20
BRICS	6 659	7 459	2.49	0.95	1.8	1.9	1.72	0.50

Note: Calendar year; except year ending 30 June for New Zealand. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.30. Main policy assumptions for meat markets

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ARGENTINA												
Beef export tax ²	%	6.8	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	103.0	106.9	107.9	109.3	110.8	112.3	113.7	115.1	116.6	118.0	119.4
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
Out-of-quota tariff	%	249.0	249.0	249.0	249.0	249.0	249.0	249.0	249.0	249.0	249.0	249.0
EUROPEAN UNION^{3,4}												
Voluntary coupled support												
Beef and veal ⁵	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 ⁶	mIn EUR	510	505	505	505	505	505	505	505	505	505	505
Beef basic price ¹	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 tariff-quota	kt cwe	347.9	324.0	325.6	327.1	328.7	329.2	329.7	330.2	330.7	331.2	331.2
Pig tariff-quota	kt cwe	211.0	212.1	213.0	213.9	214.8	215.7	216.6	217.5	218.4	219.3	220.2
Poultry tariff-quota	kt rtc	948.0	809.2	811.3	813.3	815.4	817.4	819.5	821.6	823.6	825.7	825.7
Sheep meat tariff-quota	kt cwe	251.8	163.1	163.3	163.5	163.7	163.9	164.1	164.3	164.5	164.7	164.9
JAPAN⁷												
Beef stabilisation prices												
Upper price	JPY/kg dwt	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beef tariff	%	27.7	24.3	23.5	22.7	21.8	21.0	20.2	18.6	16.8	15.0	13.1
Pigmeat stabilisation prices												
Upper price	JPY/kg dwt	0.0	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	0.0	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	%	2.2	1.5	1.3	1.0	0.8	0.5	0.3	0.1	0.0	0.0	0.0
Standard import price	JPY/kg dwt	365.2	454.4	337.1	300.2	274.9	266.7	258.3	248.1	241.4	234.9	227.6
Poultry meat tariff	%	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
KOREA												
Beef tariff	%	16.0	10.6	8.0	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
Pigmeat tariff	%	16.0	10.6	8.0	5.3	2.6	0.0	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
MEXICO⁸												
Beef and veal tariff-quota	kt pw	73.3	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 ⁹	%	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
Poultry meat tariff-quota	kt pw	110.0	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	%	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Pigmeat tariff-quota ¹⁰	kt pw	143.3	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	%	38.3	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

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

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
CHINA												
Beef tariff	%	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Pigmeat tariff	%	9.3	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
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	%	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
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	%	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
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	%	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1

Note: Average 2019-21est: Data for 2021 are estimated.

1. Price for R3 grade male cattle.
2. In Argentina, a temporary export tax is applied on all goods from September 4th 2018 until December 31st 2020.
3. 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
4. Refers to all current European Union member States (excludes the United Kingdom)
5. Implemented in 24 Member States.
6. Implemented in 22 Member States.
7. Year beginning 1 April.
8. Intended for countries which whom Mexico has no free trade agreements.
9. 25% for frozen beef.
10. Eliminated in 2020 and replaced by import tariff.

Source: OECD/FAO (2022), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.31.1. Butter projections: Production and trade

Calendar year

	PRODUCTION (kt)		Growth (%) ⁴		IMPORTS (kt)		Growth (%) ⁴		EXPORTS (kt)		Growth (%) ⁴	
	Average 2019-21 ^{est}	2031	2012-21	2022-31	Average 2019-21 ^{est}	2031	2012-21	2022-31	Average 2019-21 ^{est}	2031	2012-21	2022-31
WORLD	12 318	15 043	2.57	1.88	1 022	1 126	1.29	1.32	1 039	1 126	-0.12	1.32
NORTH AMERICA	1 061	1 171	1.86	1.12	60	66	22.37	-1.58	28	46	-8.01	6.03
Canada	116	133	3.87	1.52	20	28	16.83	0.06	0	0	-30.91	..
United States	944	1 038	1.63	1.07	40	38	26.20	-2.63	28	46	-7.78	6.03
LATIN AMERICA	432	484	0.43	0.73	64	78	0.03	3.64	34	38	-7.09	0.00
Argentina	30	34	-7.08	1.11	0	0	..	..	7	7	-9.31	2.55
Brazil	110	110	3.85	0.06	2	9	-0.87	8.12	0	1	-11.58	-4.20
Chile	24	26	1.14	1.06	5	6	14.59	-0.61	2	1	-8.56	0.60
Colombia	18	14	-1.89	-2.25	0	3	..	77.46	1	0	..	..
Mexico	204	240	1.88	1.36	35	37	-1.70	2.96	7	12	9.28	5.95
Paraguay	1	1	-1.16	3.11	0	0	..	..	1	2	9.13	2.63
Peru	6	8	7.14	2.93	7	8	3.52	2.82	0	0	..	..
EUROPE	3 127	3 240	2.05	0.45	279	278	0.00	0.27	432	505	2.76	1.98
European Union ¹	2 355	2 474	2.04	0.50	39	34	-1.59	-0.14	280	352	3.22	2.98
United Kingdom	177	155	2.30	0.47	92	99	-1.81	0.68	49	41	0.72	-0.69
Russia	305	310	4.37	0.30	128	120	2.32	-0.19	4	5	2.78	0.00
Ukraine	79	71	-2.59	-0.68	8	14	-3.99	3.72	13	7	26.50	-3.59
AFRICA	328	400	0.25	2.01	77	93	-6.92	2.81	6	9	-12.13	5.00
Egypt	109	129	-1.81	1.86	29	32	-8.74	0.91	2	1	-5.93	-0.21
Ethiopia	15	24	-1.62	4.49	0	0	..	..	0	5	..	24.01
Nigeria	12	16	-0.46	1.98	2	5	-14.82	14.05	0	0	..	..
South Africa	17	16	0.20	-0.34	5	10	5.18	6.64	3	1	-10.78	-6.22
ASIA	6 829	9 230	3.65	2.72	499	564	2.34	1.84	76	74	7.14	0.94
China ²	92	100	-1.37	0.70	114	147	10.87	0.67	2	2	0.76	1.00
India	4 844	6 703	3.65	2.96	0	0	-23.21	..	28	18	18.61	-3.90
Indonesia	0	0	..	..	21	25	1.43	2.13	1	1	..	0.00
Iran	197	208	1.67	0.24	22	9	-19.88	9.55	1	2	-18.04	-1.14
Japan	68	67	0.39	-0.54	16	10	5.95	-0.01	0	0	..	..
Kazakhstan	18	28	3.51	3.49	6	3	-6.22	-5.00	3	7	56.91	5.26
Korea	3	3	-2.26	0.44	18	20	15.82	0.28	0	0	..	..
Malaysia	0	0	..	..	20	27	3.33	2.38	4	3	-0.45	0.00
Pakistan	1 090	1 473	5.22	2.73	0	1	0.69	..	0	0	..	..
Philippines	0	0	..	..	33	38	9.43	1.87	0	1	..	0.00
Saudi Arabia	7	7	0.76	-1.16	48	51	-2.21	1.18	8	8	9.04	-1.16
Thailand	3	4	160.79	1.38	13	15	0.55	0.76	1	1	0.21	0.00
Türkiye	268	335	3.71	1.81	16	0	-12.67	-14.31	11	18	29.15	14.11
Viet Nam	0	0	..	..	15	16	0.81	0.63	0	0	..	..
OCEANIA	541	518	-1.82	0.16	44	46	8.61	0.32	463	454	-1.59	0.43
Australia	74	56	-6.62	-2.03	40	40	9.88	0.00	20	15	-11.78	-0.93
New Zealand	466	462	-0.85	0.47	1	1	2.10	1.00	443	439	-0.85	0.48
DEVELOPED COUNTRIES	4 877	5 099	1.50	0.59	440	438	2.84	0.01	935	1 021	-0.05	1.38
DEVELOPING COUNTRIES	7 441	9 945	3.32	2.62	582	688	0.24	2.24	104	105	-1.10	0.76
LEAST DEVELOPED COUNTRIES (LDC)	259	318	3.22	1.83	10	51	-3.64	23.10	1	1	-16.77	-3.47
OECD³	4 782	5 071	1.50	0.70	333	328	3.20	0.30	841	925	-0.34	1.69
BRICS	5 369	7 239	3.57	2.74	250	286	5.17	0.61	37	27	7.99	-3.05

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand and Australia. Average 2019-21^{est}: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.31.2. Butter projections: Consumption, food

Calendar year

	CONSUMPTION (kt)		Growth (%) ⁴		FOOD (kg/cap)		Growth (%) ⁴	
	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	12 262	15 041	2.71	1.88	1.6	1.8	1.57	0.97
NORTH AMERICA	1 080	1 190	2.85	0.73	2.9	3.0	2.16	0.17
Canada	137	161	5.47	1.28	3.6	3.9	4.47	0.50
United States	943	1 030	2.51	0.65	2.8	2.9	1.85	0.11
LATIN AMERICA	465	525	1.28	1.17	0.7	0.7	0.30	0.43
Argentina	25	28	-4.50	0.80	0.6	0.6	-5.43	0.00
Brazil	112	118	3.87	0.52	0.5	0.5	3.04	0.05
Chile	27	31	3.91	0.72	1.4	1.6	2.69	0.56
Colombia	18	17	-2.50	0.00	0.3	0.3	-3.73	-0.47
Mexico	232	265	1.30	1.40	1.8	1.9	0.12	0.55
Paraguay	0	0	..	..	0.0	0.0	-57.71	0.16
Peru	13	16	4.99	2.88	0.4	0.4	3.49	2.01
EUROPE	2 953	3 013	1.71	0.20	3.9	4.1	1.57	0.31
European Union ¹	2 109	2 155	1.88	0.13	4.7	4.9	1.76	0.23
United Kingdom	204	213	-0.30	0.81	3.0	3.0	-0.92	0.45
Russia	430	425	3.47	0.16	2.9	3.0	3.31	0.39
Ukraine	73	77	-4.75	0.31	1.7	1.9	-4.28	1.01
AFRICA	399	484	-1.22	2.11	0.3	0.3	-3.70	-0.19
Egypt	136	160	-3.60	1.68	1.3	1.3	-5.59	0.06
Ethiopia	16	19	-1.42	2.28	0.1	0.1	-4.01	0.00
Nigeria	14	20	-3.53	3.86	0.1	0.1	-6.01	1.39
South Africa	20	25	4.38	2.40	0.3	0.4	2.91	1.37
ASIA	7 244	9 718	3.51	2.68	1.6	2.0	2.54	2.02
China ²	204	245	4.10	0.68	0.1	0.2	3.61	0.56
India	4 817	6 685	3.58	2.98	3.5	4.4	2.49	2.14
Indonesia	21	24	1.33	2.19	0.1	0.1	0.14	1.32
Iran	218	216	-0.61	0.53	2.6	2.3	-1.92	-0.37
Japan	80	77	0.72	-0.48	0.6	0.6	0.92	0.02
Kazakhstan	21	23	-0.95	1.52	1.1	1.1	-2.33	0.62
Korea	17	20	8.74	1.30	0.3	0.4	8.45	1.36
Malaysia	16	24	4.39	2.77	0.5	0.7	3.01	1.71
Pakistan	1 090	1 473	5.22	2.73	4.9	5.5	3.08	1.02
Philippines	33	38	9.31	1.90	0.3	0.3	7.71	0.71
Saudi Arabia	46	50	-3.10	1.25	1.3	1.3	-5.12	0.11
Thailand	16	18	3.12	0.91	0.2	0.3	2.77	0.88
Türkiye	273	317	2.73	1.40	3.2	3.5	1.21	0.86
Viet Nam	15	16	0.74	0.63	0.2	0.2	-0.26	0.00
OCEANIA	122	110	1.56	-0.80	2.9	2.3	0.13	-1.92
Australia	94	81	1.50	-1.28	3.7	2.8	0.17	-2.23
New Zealand	24	24	7.00	0.28	5.0	4.6	6.00	-0.39
DEVELOPED COUNTRIES	4 345	4 516	1.98	0.34	3.0	3.1	1.56	0.15
DEVELOPING COUNTRIES	7 917	10 525	3.13	2.62	1.3	1.5	1.82	1.55
LEAST DEVELOPED COUNTRIES (LDC)	268	368	3.11	3.33	0.3	0.3	0.75	1.15
OECD³	4 233	4 472	2.01	0.46	3.0	3.1	1.46	0.20
BRICS	5 583	7 498	3.60	2.68	1.7	2.2	2.82	2.21

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand and Australia. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21 ^{est}	2031	2012-21	2022-31	Average 2019-21 ^{est}	2031	2012-21	2022-31	Average 2019-21 ^{est}	2031	2012-21	2022-31
WORLD	24 823	28 164	1.74	1.10	3 432	4 133	3.10	1.57	3 469	4 133	2.08	1.57
NORTH AMERICA	6 556	7 630	2.67	1.41	175	180	-0.03	-0.81	383	510	2.90	2.92
Canada	497	572	3.09	1.59	38	53	6.85	0.98	10	8	-2.04	0.41
United States	6 059	7 057	2.63	1.40	137	126	-1.42	-1.48	372	501	3.05	2.97
LATIN AMERICA	2 190	2 662	-0.52	1.68	388	530	4.22	2.26	178	164	1.21	-0.94
Argentina	443	532	-2.60	1.63	1	1	-10.97	0.00	63	64	1.26	0.00
Brazil	774	1 002	1.08	2.14	30	30	1.67	1.86	4	6	6.19	3.45
Chile	100	117	1.52	1.16	58	88	15.44	1.60	8	6	0.57	-1.56
Colombia	52	48	-1.89	-0.28	5	13	13.66	4.69	1	1	12.83	-2.00
Mexico	321	391	0.00	1.33	118	166	2.71	3.27	9	4	12.08	-1.34
Paraguay	0	0	..	..	5	5	12.35	2.19	0	0	..	..
Peru	25	29	1.75	1.77	9	14	15.55	2.06	0	0	..	..
EUROPE	12 580	13 865	1.94	0.81	1 211	1 320	1.07	1.06	1 988	2 482	2.92	1.99
European Union ¹	10 689	11 706	1.81	0.78	208	208	2.09	1.20	1 383	1 816	2.26	2.49
United Kingdom	486	507	2.96	0.11	511	560	1.42	1.19	193	151	5.60	-1.56
Russia	554	680	2.28	1.49	311	340	-2.32	1.00	31	22	4.30	-3.82
Ukraine	154	151	-1.48	0.04	42	77	15.25	4.24	7	5	-22.33	-3.39
AFRICA	998	1 147	-0.17	1.31	147	222	-0.42	4.87	110	56	-6.81	-3.03
Egypt	602	680	-0.61	1.06	29	54	-3.54	7.86	91	29	-5.87	-7.29
Ethiopia	5	8	-1.91	5.09	0	0	..	..	0	2	..	32.43
Nigeria	10	10	-0.74	0.03	1	8	8.96	17.54	0	0	..	..
South Africa	55	76	-3.62	3.56	8	4	-3.44	-7.65	10	21	0.03	8.28
ASIA	1 735	2 033	0.91	1.45	1 400	1 764	5.82	1.73	312	378	1.25	0.90
China ²	207	225	-2.53	0.61	138	170	15.86	1.09	0	0	..	..
India	6	6	12.38	-2.57	2	2	5.09	1.72	8	8	11.58	-1.69
Indonesia	0	0	..	..	29	38	5.05	2.30	2	2	13.44	-2.25
Iran	312	326	2.48	0.46	0	0	..	..	89	91	5.27	-0.03
Japan	160	166	2.33	0.17	294	373	3.17	2.45	1	0	16.45	..
Kazakhstan	30	37	4.24	1.68	30	38	4.10	1.83	3	3	23.44	-1.79
Korea	32	30	4.93	0.79	145	189	7.64	1.87	1	1	..	0.00
Malaysia	0	0	..	..	33	44	10.35	2.04	1	1	18.72	-2.00
Pakistan	0	0	..	..	2	3	3.19	7.57	0	0	..	..
Philippines	0	0	..	..	44	71	12.63	3.36	1	1	-8.67	-3.25
Saudi Arabia	118	150	-3.56	3.25	184	200	3.66	-0.40	83	78	-5.96	0.41
Thailand	2	2	-10.39	1.38	17	21	9.83	1.22	1	1	..	0.00
Türkiye	260	379	3.70	2.74	10	6	0.05	-1.26	50	111	3.12	6.06
Viet Nam	0	0	..	..	10	10	13.65	1.50	0	1	..	0.00
OCEANIA	765	828	2.41	0.37	110	118	3.85	0.67	498	544	1.55	0.46
Australia	389	418	2.33	0.33	97	103	3.14	0.49	158	174	-0.33	0.55
New Zealand	377	410	2.53	0.41	12	13	12.20	2.00	340	370	2.57	0.42
DEVELOPED COUNTRIES	20 407	22 926	2.16	1.01	1 862	2 063	1.52	1.05	2 893	3 568	2.68	1.88
DEVELOPING COUNTRIES	4 416	5 238	-0.03	1.51	1 570	2 070	5.28	2.11	577	565	-0.60	-0.23
LEAST DEVELOPED COUNTRIES (LDC)	441	511	2.62	1.47	25	84	6.71	9.63	0	0	..	..
OECD³	19 858	22 286	2.11	1.00	1 737	1 996	2.89	1.33	2 609	3 230	2.42	1.98
BRICS	1 595	1 989	0.71	1.76	489	546	0.93	0.97	53	56	4.14	0.39

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand and Australia. Average 2019-21^{est}: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	24 774	28 136	1.87	1.10	3.2	3.3	0.74	0.20
NORTH AMERICA	6 343	7 272	2.60	1.23	17.2	18.5	1.91	0.66
Canada	526	617	3.72	1.56	13.9	15.0	2.73	0.78
United States	5 817	6 654	2.51	1.20	17.6	18.9	1.85	0.65
LATIN AMERICA	2 400	3 028	0.01	1.94	3.7	4.3	-0.95	1.20
Argentina	381	469	-3.17	1.87	8.4	9.5	-4.11	1.06
Brazil	799	1 027	1.07	2.12	3.8	4.6	0.27	1.64
Chile	150	198	5.53	1.46	7.8	10.1	4.29	1.29
Colombia	56	59	-1.18	0.62	1.1	1.1	-2.42	0.15
Mexico	431	552	0.50	1.90	3.3	3.9	-0.67	1.05
Paraguay	5	5	13.93	2.33	0.6	0.6	12.45	1.27
Peru	33	42	4.02	1.89	1.0	1.2	2.53	1.03
EUROPE	11 803	12 702	1.70	0.62	15.8	17.1	1.56	0.73
European Union ¹	9 514	10 098	1.76	0.51	21.4	22.9	1.64	0.61
United Kingdom	804	915	1.45	1.08	11.9	12.9	0.82	0.72
Russia	834	998	0.09	1.46	5.7	7.0	-0.07	1.69
Ukraine	190	223	4.49	1.41	4.3	5.5	5.01	2.12
AFRICA	1 034	1 313	0.58	2.07	0.8	0.8	-1.95	-0.22
Egypt	540	704	0.07	2.03	5.3	5.7	-2.00	0.41
Ethiopia	5	6	-1.85	2.28	0.0	0.0	-4.44	0.00
Nigeria	11	17	0.07	4.72	0.1	0.1	-2.50	2.22
South Africa	53	60	-4.24	1.16	0.9	0.9	-5.59	0.15
ASIA	2 821	3 419	3.06	1.66	0.6	0.7	2.09	1.00
China ²	344	394	2.10	0.81	0.2	0.3	1.61	0.69
India	0	0	..	..	0.0	0.0	-65.31	2.44
Indonesia	27	36	4.63	2.59	0.1	0.1	3.40	1.71
Iran	222	235	1.85	0.65	2.7	2.5	0.50	-0.26
Japan	451	539	2.81	1.69	3.6	4.5	3.02	2.21
Kazakhstan	57	72	3.60	1.92	3.0	3.5	2.16	1.03
Korea	176	218	7.11	1.72	3.4	4.3	6.83	1.77
Malaysia	32	43	10.16	2.15	1.0	1.2	8.69	1.10
Pakistan	2	3	3.17	7.60	0.0	0.0	1.08	5.80
Philippines	43	70	13.69	3.48	0.4	0.6	12.03	2.28
Saudi Arabia	219	272	4.34	1.20	6.3	6.8	2.17	0.06
Thailand	19	23	5.04	1.28	0.3	0.3	4.68	1.24
Türkiye	220	275	3.59	1.62	2.6	3.1	2.06	1.09
Viet Nam	9	9	12.94	1.66	0.1	0.1	11.82	1.03
OCEANIA	372	403	3.76	0.33	8.9	8.5	2.31	-0.80
Australia	322	347	3.75	0.27	12.6	12.2	2.39	-0.69
New Zealand	48	54	3.96	0.72	10.0	10.3	3.00	0.04
DEVELOPED COUNTRIES	19 364	21 393	2.02	0.87	13.5	14.6	1.60	0.68
DEVELOPING COUNTRIES	5 409	6 743	1.36	1.85	0.9	0.9	0.07	0.80
LEAST DEVELOPED COUNTRIES (LDC)	466	595	2.81	2.31	0.5	0.5	0.45	0.15
OECD³	18 973	21 023	2.14	0.88	13.6	14.6	1.59	0.61
BRICS	2 031	2 479	0.64	1.61	0.6	0.7	-0.11	1.16

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21 ^{est}	2031	2012-21	2022-31	Average 2019-21 ^{est}	2031	2012-21	2022-31	Average 2019-21 ^{est}	2031	2012-21	2022-31
WORLD	4 527	5 426	2.00	1.81	2 652	3 222	3.53	1.66	2 686	3 222	3.86	1.66
NORTH AMERICA	1 265	1 609	2.23	1.58	4	3	-3.28	0.00	839	1 151	7.30	2.26
Canada	94	112	1.73	1.23	1	1	-14.18	0.00	35	28	16.47	5.27
United States	1 170	1 497	2.27	1.60	3	2	8.26	0.00	804	1 123	6.90	2.20
LATIN AMERICA	287	327	-0.29	1.14	486	570	5.52	1.34	59	59	1.91	0.39
Argentina	40	44	2.15	1.05	0	0	..	..	21	26	0.92	2.07
Brazil	159	197	1.04	1.63	22	24	-3.20	0.00	0	1	..	2.03
Chile	13	8	-1.06	-4.29	13	16	7.21	4.20	1	1	-5.32	-2.21
Colombia	0	0	..	..	29	36	30.04	2.17	0	0	..	..
Mexico	45	46	-2.01	0.27	337	385	5.92	1.19	16	12	21.70	0.00
Paraguay	0	0	..	..	1	1	0.55	0.00	1	1	..	0.00
Peru	0	0	..	..	23	31	1.45	1.91	0	0	..	..
EUROPE	1 898	2 260	3.23	2.09	148	162	-2.72	1.47	1 108	1 324	5.75	2.44
European Union ¹	1 460	1 860	3.57	2.71	42	27	4.25	-1.18	855	1 078	6.41	2.94
United Kingdom	81	88	1.73	1.09	25	25	-6.79	-0.13	99	106	6.89	0.84
Russia	91	76	4.66	-1.20	68	75	-4.81	0.94	2	2	-4.90	0.00
Ukraine	94	54	-1.61	-4.20	3	25	7.99	14.45	16	2	-4.34	-12.62
AFRICA	11	20	0.65	7.69	440	622	3.82	3.17	20	25	2.57	0.12
Egypt	0	0	..	..	75	96	0.19	2.99	0	0	-33.02	..
Ethiopia	0	0	..	..	1	1	19.58	2.28	0	0	..	..
Nigeria	0	0	..	..	99	179	14.10	4.22	1	1	..	-4.05
South Africa	7	16	1.18	10.21	14	10	7.76	-3.52	8	13	-2.66	3.65
ASIA	524	710	4.65	3.29	1 551	1 844	3.52	1.34	150	206	-1.01	-0.37
China ²	21	21	0.52	0.51	368	462	8.68	1.14	1	2	8.86	0.00
India	308	485	6.53	4.52	1	0	-14.86	..	20	9	-15.99	-13.45
Indonesia	0	0	..	..	195	243	4.10	2.03	1	1	-2.31	-1.99
Iran	0	0	..	..	25	47	5.76	0.00	24	47	10.68	0.00
Japan	131	114	-0.34	-0.39	40	33	2.10	-2.48	0	0	..	..
Kazakhstan	1	0	-11.95	..	22	26	1.10	2.51	1	1	21.58	-2.44
Korea	9	11	-7.27	1.78	20	21	0.06	-0.32	0	0	..	..
Malaysia	0	0	..	..	122	128	0.95	0.85	3	2	-27.10	-0.85
Pakistan	0	0	..	..	27	32	-1.14	5.04	0	0	..	..
Philippines	0	0	..	..	174	191	6.62	1.45	0	1	..	-1.43
Saudi Arabia	0	0	..	..	15	16	-17.62	0.48	8	8	-12.44	-0.48
Thailand	0	0	..	..	65	67	0.33	0.36	7	6	35.16	0.00
Türkiye	45	70	249.24	4.09	3	12	17.98	0.00	41	82	51.51	3.37
Viet Nam	0	0	..	..	110	130	5.38	1.04	1	10	14.22	0.00
OCEANIA	543	500	-2.47	-0.14	24	21	14.16	-0.18	509	457	-1.53	-0.49
Australia	148	114	-5.75	-1.62	16	13	18.44	-1.03	120	77	-3.25	-3.88
New Zealand	395	386	-0.91	0.34	5	3	-2.84	0.00	389	380	-0.91	0.34
DEVELOPED COUNTRIES	3 854	4 508	1.79	1.58	270	273	0.18	0.61	2 470	2 952	4.24	1.86
DEVELOPING COUNTRIES	673	918	3.32	3.01	2 381	2 949	3.97	1.76	216	271	0.22	-0.30
LEAST DEVELOPED COUNTRIES (LDC)	0	0	..	..	125	174	2.92	3.36	10	10	11.67	-2.66
OECD³	3 640	4 354	1.78	1.75	538	582	4.92	0.74	2 372	2 899	4.71	1.97
BRICS	585	796	4.20	3.03	473	571	4.64	0.95	31	27	-11.25	-5.65

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand and Australia. Average 2019-21^{est}: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	4 576	5 426	2.18	1.81	0.6	0.6	1.08	1.01
NORTH AMERICA	431	461	-4.10	0.02	1.1	1.0	-5.12	-0.51
Canada	62	85	-1.96	0.10	0.7	0.6	-3.53	0.18
United States	369	376	-4.57	0.00	1.1	1.1	-5.19	-0.54
LATIN AMERICA	714	839	3.04	1.33	1.0	1.1	2.20	0.58
Argentina	19	18	5.92	-0.29	0.4	0.4	4.89	-1.07
Brazil	180	220	0.38	1.44	0.6	0.7	-0.85	0.97
Chile	25	23	2.88	0.83	1.3	1.2	1.67	0.67
Colombia	29	36	30.31	2.20	0.6	0.7	28.68	1.72
Mexico	365	418	3.69	1.13	2.8	2.9	2.49	0.28
Paraguay	0	0	..	..	0.0	0.0	-41.30	0.78
Peru	23	31	1.45	1.91	0.7	0.9	0.01	1.05
EUROPE	1 022	1 097	1.26	1.60	1.2	1.3	0.95	2.04
European Union ¹	727	810	2.34	2.27	1.4	1.6	2.15	2.96
United Kingdom	10	7	-17.77	0.36	0.1	0.1	-18.28	0.00
Russia	157	149	0.13	-0.23	1.1	1.0	-0.02	-0.01
Ukraine	80	77	-0.52	-0.24	1.8	1.9	-0.02	0.45
AFRICA	430	617	3.79	3.42	0.3	0.4	1.19	1.10
Egypt	75	96	0.39	3.00	0.7	0.8	-1.69	1.36
Ethiopia	1	1	19.58	2.28	0.0	0.0	16.43	0.00
Nigeria	99	178	14.03	4.26	0.5	0.7	11.10	1.78
South Africa	13	13	17.46	1.61	0.2	0.2	15.80	0.59
ASIA	1 917	2 348	4.31	2.06	0.4	0.5	3.38	1.42
China ²	388	481	8.07	1.12	0.3	0.3	7.56	1.00
India	289	477	12.09	5.42	0.2	0.3	10.90	4.55
Indonesia	193	242	4.16	2.06	0.7	0.8	2.93	1.19
Iran	1	0	-11.29	..	0.0	0.0	-12.47	-0.09
Japan	162	147	-0.27	-0.90	1.1	1.0	-0.25	-0.60
Kazakhstan	22	25	0.07	2.66	1.2	1.2	-1.32	1.76
Korea	31	32	0.50	0.35	0.6	0.6	0.24	0.41
Malaysia	120	126	4.35	0.88	3.7	3.5	2.96	-0.15
Pakistan	27	32	-0.73	5.05	0.1	0.1	-2.75	3.30
Philippines	174	190	6.59	1.46	1.6	1.5	5.04	0.28
Saudi Arabia	8	8	-21.50	1.52	0.2	0.2	-23.14	0.37
Thailand	58	61	-1.17	0.40	0.8	0.9	-1.51	0.37
Türkiye	7	0	30.59	..	0.1	0.0	28.66	-0.05
Viet Nam	108	120	5.38	1.13	1.1	1.2	4.34	0.50
OCEANIA	62	64	-6.05	2.72	1.5	1.3	-7.37	1.56
Australia	47	51	-8.45	3.25	1.8	1.8	-9.65	2.26
New Zealand	11	9	1.48	0.07	2.3	1.7	0.54	-0.60
DEVELOPED COUNTRIES	1 734	1 830	-0.60	1.01	1.1	1.1	-1.24	1.02
DEVELOPING COUNTRIES	2 841	3 596	4.21	2.25	0.4	0.5	2.95	1.20
LEAST DEVELOPED COUNTRIES (LDC)	115	165	2.38	3.85	0.1	0.1	0.04	1.65
OECD³	1 888	2 038	0.18	1.15	1.2	1.3	-0.50	1.09
BRICS	1 028	1 340	5.58	2.34	0.3	0.4	5.08	1.93

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand and Australia. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21 ^{est}	2031	2012-21	2022-31	Average 2019-21 ^{est}	2031	2012-21	2022-31	Average 2019-21 ^{est}	2031	2012-21	2022-31
WORLD	5 272	6 108	0.69	1.48	2 828	3 035	1.66	0.94	2 770	3 035	1.74	0.94
NORTH AMERICA	67	82	13.91	1.44	12	14	-3.68	0.00	35	71	17.23	4.96
Canada	8	7	-2.67	-1.72	3	3	-3.19	0.00	1	1	3.50	1.21
United States	59	75	19.47	1.79	9	11	-3.47	0.00	35	70	17.70	5.01
LATIN AMERICA	1 348	1 761	0.46	2.33	300	317	-4.68	1.18	302	346	-1.11	1.63
Argentina	186	209	-4.63	1.21	0	0	..	..	115	150	-6.20	2.59
Brazil	592	896	0.79	3.41	66	54	2.14	-0.18	2	13	-6.47	8.13
Chile	95	98	-0.09	0.19	6	10	0.20	2.07	2	1	-24.36	-0.88
Colombia	37	28	-1.89	-1.69	18	39	11.21	7.15	2	2	-9.75	-4.70
Mexico	226	266	1.44	1.33	24	39	-40.07	6.47	12	0	-45.84	..
Paraguay	0	0	..	..	7	7	23.28	0.00	7	7	44.46	0.00
Peru	0	0	..	..	26	39	5.95	1.90	0	0	..	..
EUROPE	904	988	0.84	1.51	84	77	-2.18	-0.01	426	445	-0.98	0.92
European Union ¹	707	771	0.95	1.65	27	15	-3.17	-2.45	320	324	-2.22	0.96
United Kingdom	50	53	0.63	0.73	19	20	-4.82	0.09	54	56	4.21	0.34
Russia	60	64	-0.54	0.81	34	39	0.06	1.41	18	17	42.30	0.00
Ukraine	9	9	-1.27	-0.12	0	1	..	2.99	6	3	21.32	-2.90
AFRICA	38	50	3.55	2.36	541	706	0.23	2.73	22	17	-4.35	0.76
Egypt	0	0	..	..	19	23	-13.20	3.55	8	2	15.88	-3.43
Ethiopia	0	0	..	..	2	3	22.86	2.28	0	0	..	..
Nigeria	0	0	..	..	59	114	-2.78	4.94	1	0	-4.53	..
South Africa	20	29	8.13	4.20	4	3	5.87	-5.53	6	9	-3.69	5.85
ASIA	1 313	1 427	-1.23	1.33	1 844	1 888	3.53	0.40	400	348	5.04	-0.57
China ²	1 151	1 242	-1.64	1.26	720	657	5.09	-1.05	1	2	-18.42	0.34
India	4	6	35.26	3.33	0	0	..	..	2	3	18.79	7.06
Indonesia	87	123	2.93	2.64	56	89	0.94	3.36	1	1	-24.33	-0.74
Iran	1	1	-0.60	0.56	4	4	15.72	0.00	3	5	14.46	0.08
Japan	35	13	-0.98	-2.35	2	2	45.14	0.00	0	0	..	..
Kazakhstan	24	29	5.24	1.84	2	0	-8.33	-65.64	0	1	..	..
Korea	1	1	-6.70	1.29	5	6	15.70	1.31	0	0	..	..
Malaysia	0	0	..	..	51	45	8.82	0.55	39	25	13.53	-0.55
Pakistan	0	0	..	..	0	0	-25.00	..	0	0	-37.94	..
Philippines	0	0	..	..	27	23	-2.16	1.28	8	7	-11.29	-1.26
Saudi Arabia	0	0	..	..	137	145	3.99	1.34	9	8	-10.67	-1.32
Thailand	0	0	..	..	60	70	7.20	0.95	2	3	-7.03	0.00
Türkiye	0	0	..	..	2	2	6.03	0.00	2	2	6.03	0.00
Viet Nam	0	0	..	..	41	48	0.46	1.21	15	13	38.10	0.00
OCEANIA	1 601	1 801	2.20	0.80	47	34	16.31	-1.17	1 583	1 809	2.34	1.00
Australia	48	30	-10.42	-2.88	38	22	23.26	-2.50	36	44	-10.92	8.21
New Zealand	1 553	1 771	2.94	0.87	2	2	9.36	0.00	1 547	1 764	2.94	0.86
DEVELOPED COUNTRIES	2 652	2 943	1.93	1.07	152	131	1.89	-0.68	2 051	2 334	1.69	1.10
DEVELOPING COUNTRIES	2 620	3 165	-0.45	1.88	2 676	2 904	1.64	1.02	718	700	1.83	0.41
LEAST DEVELOPED COUNTRIES (LDC)	10	11	5.58	-0.73	262	347	3.16	3.18	5	4	-13.98	-2.92
OECD³	2 835	3 130	1.75	0.99	162	178	2.33	1.77	2 010	2 265	1.51	1.08
BRICS	1 827	2 236	-0.77	2.09	824	752	4.46	-0.91	30	44	-0.47	3.42

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand and Australia. Average 2019-21^{est}: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	5 323	6 109	0.64	1.49	0.7	0.7	-0.47	0.59
NORTH AMERICA	39	24	2.39	-4.66	0.1	0.1	1.70	-5.19
Canada	5	9	-12.99	3.32	0.1	0.2	-13.82	2.53
United States	34	15	8.22	-7.55	0.1	0.0	7.53	-8.04
LATIN AMERICA	1 347	1 732	-0.49	2.25	2.1	2.4	-1.45	1.51
Argentina	70	59	-1.40	-1.71	1.6	1.2	-2.37	-2.48
Brazil	656	937	1.14	3.12	3.1	4.2	0.34	2.63
Chile	99	107	2.07	0.36	5.2	5.5	0.88	0.20
Colombia	53	65	0.97	2.83	1.1	1.2	-0.29	2.35
Mexico	239	306	1.23	1.79	1.9	2.2	0.05	0.94
Paraguay	0	0	..	..	0.0	0.0	-43.05	-0.10
Peru	26	39	5.98	1.90	0.8	1.1	4.47	1.05
EUROPE	558	620	1.89	1.74	0.7	0.8	1.75	1.85
European Union ¹	415	462	3.97	1.96	0.9	1.0	3.85	2.06
United Kingdom	15	17	-11.95	1.30	0.2	0.2	-12.50	0.94
Russia	76	85	-3.08	1.25	0.5	0.6	-3.23	1.47
Ukraine	4	7	-13.98	2.10	0.1	0.2	-13.55	2.81
AFRICA	557	739	0.66	2.75	0.4	0.4	-1.86	0.44
Egypt	10	21	-21.87	4.69	0.1	0.2	-23.48	3.02
Ethiopia	2	3	24.00	2.28	0.0	0.0	20.73	0.00
Nigeria	59	114	-2.74	4.99	0.3	0.4	-5.24	2.49
South Africa	17	23	16.41	1.57	0.3	0.3	14.76	0.55
ASIA	2 758	2 968	0.86	0.96	0.6	0.6	-0.09	0.30
China ²	1 869	1 897	0.47	0.40	1.3	1.3	0.00	0.28
India	2	3	19.81	0.82	0.0	0.0	18.54	0.00
Indonesia	141	211	2.80	2.96	0.5	0.7	1.60	2.09
Iran	1	0	-53.29	..	0.0	0.0	-53.90	-0.09
Japan	36	15	-0.42	-2.15	0.3	0.1	-0.22	-1.66
Kazakhstan	26	28	3.26	0.82	1.4	1.4	1.83	-0.07
Korea	7	8	9.02	0.55	0.1	0.1	8.73	0.61
Malaysia	13	20	1.03	2.11	0.4	0.6	-0.31	1.06
Pakistan	0	0	14.67	..	0.0	0.0	12.34	0.00
Philippines	19	15	8.72	2.77	0.2	0.1	7.14	1.58
Saudi Arabia	127	137	6.53	1.52	3.7	3.5	4.31	0.38
Thailand	58	67	8.24	1.00	0.8	1.0	7.87	0.97
Türkiye	0	0	..	..	0.0	0.0	-1.48	-0.05
Viet Nam	26	35	-4.81	1.71	0.3	0.3	-5.75	1.07
OCEANIA	65	26	5.45	-9.74	1.6	0.5	3.97	-10.76
Australia	50	8	6.61	-19.37	2.0	0.3	5.22	-20.14
New Zealand	8	9	4.19	3.08	1.7	1.6	3.23	2.39
DEVELOPED COUNTRIES	744	739	2.41	0.68	0.5	0.5	1.99	0.49
DEVELOPING COUNTRIES	4 579	5 369	0.38	1.60	0.7	0.8	-0.90	0.55
LEAST DEVELOPED COUNTRIES (LDC)	267	354	3.96	3.13	0.3	0.3	1.58	0.95
OECD³	980	1 044	2.24	0.97	0.7	0.7	1.70	0.70
BRICS	2 621	2 945	0.60	1.22	0.8	0.9	-0.15	0.76

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand and Australia. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	3 291	3 754	1.63	1.10	1 648.6	1 946.1	3.80	1.74	2 001.0	2 260.4	1.98	1.48
NORTH AMERICA	479	510	-1.10	0.67	6.5	6.3	4.34	0.15	221.6	240.6	-1.40	0.93
Canada	41	47	4.08	1.59	6.5	6.3	4.34	0.15	43.0	43.2	5.19	0.08
United States	439	463	-1.49	0.58	0.0	0.0	..	..	178.6	197.4	-2.57	1.13
LATIN AMERICA	154	185	-0.23	1.47	140.3	153.7	1.81	0.89	177.1	197.5	-0.97	1.08
Argentina	73	88	0.69	1.63	0.5	0.5	-27.66	0.00	49.9	59.9	-4.14	1.61
Brazil	0	0	..	..	14.5	14.6	-5.22	0.02	0.5	0.5	..	0.00
Chile	8	10	5.54	1.16	10.3	22.0	15.86	7.14	18.4	31.4	9.40	4.99
Colombia	0	0	..	..	14.1	19.0	7.56	2.29	0.0	0.0	-74.29	..
Mexico	57	70	0.56	1.33	71.1	66.0	3.53	-0.51	71.1	66.0	3.53	-0.55
Paraguay	0	0	..	..	1.5	2.2	51.11	2.68	0.0	0.0	..	..
Peru	0	0	..	..	9.2	8.9	1.13	-0.60	9.2	8.9	1.13	-0.60
EUROPE	2 347	2 697	2.15	1.15	185.8	179.0	0.16	0.25	937.5	1 064.7	2.43	0.82
European Union ²	2 122	2 468	2.23	1.19	54.3	50.7	-1.65	1.46	681.0	785.6	3.76	0.80
United Kingdom	66	50	0.32	-1.10	47.9	38.2	6.06	-2.00	50.9	45.8	-0.33	-1.00
Russia	1	1	1.12	0.00	63.3	63.4	-2.06	0.00	63.3	63.4	-2.06	0.00
Ukraine	23	23	0.44	0.04	4.0	9.2	17.84	7.99	24.9	30.1	1.93	1.90
AFRICA	2	3	-4.77	3.56	74.5	99.8	7.18	2.61	41.4	59.0	3.92	3.36
Egypt	0	0	..	..	23.9	36.2	4.86	3.83	23.9	36.2	4.86	3.83
Ethiopia	0	0	..	..	0.8	0.8	36.58	0.00	0.0	0.0	..	..
Nigeria	0	0	..	..	3.5	0.0	-0.91	-42.25	3.5	0.0	-0.91	-44.33
South Africa	2	3	-4.77	3.56	21.3	25.0	11.79	1.20	0.3	0.0	-25.37	..
ASIA	166	206	5.44	1.63	1 206.6	1 468.2	4.39	2.02	577.0	652.8	4.04	2.96
China ³	78	84	-0.02	0.50	578.6	795.2	5.64	1.69	0.8	0.8	7.44	0.00
India	2	2	9.12	-2.57	9.0	13.3	8.46	4.19	0.2	0.6	..	..
Indonesia	0	0	..	..	138.6	197.8	4.67	3.25	138.6	197.8	4.67	3.25
Iran	9	9	4.18	0.46	5.2	8.4	6.55	4.67	6.3	8.8	-4.48	3.85
Japan	19	19	530.82	0.00	55.1	54.6	1.20	0.01	0.0	0.0	..	..
Kazakhstan	0	0	..	..	9.4	15.4	8.72	4.64	9.4	15.4	8.72	4.64
Korea	0	0	..	..	39.5	34.7	0.87	-0.83	0.3	0.3	..	..
Malaysia	0	0	..	..	86.7	116.7	2.24	2.68	86.7	116.7	2.24	2.68
Pakistan	0	0	..	..	29.1	37.6	5.44	2.26	29.1	37.6	5.44	2.26
Philippines	0	0	..	..	54.2	92.5	11.31	5.01	54.2	92.5	11.31	5.01
Saudi Arabia	0	0	..	..	6.3	10.1	10.59	4.44	6.3	10.1	10.59	4.44
Thailand	0	0	..	..	61.7	0.0	1.16	..	61.7	0.0	1.16	..
Türkiye	59	92	10.80	3.45	0.1	0.0	..	..	58.8	92.0	11.72	3.45
Viet Nam	0	0	..	..	46.1	0.0	1.95	..	46.1	0.0	1.95	..
OCEANIA	141	153	2.14	0.34	34.9	39.1	9.07	0.44	46.4	45.6	0.02	0.16
Australia	110	119	1.80	0.33	14.4	22.1	3.26	0.75	32.2	30.2	-1.68	0.04
New Zealand	31	34	3.40	0.41	20.2	16.8	17.00	0.07	14.1	15.5	6.06	0.39
DEVELOPED COUNTRIES	2 989	3 382	1.65	1.04	322.2	338.5	2.17	0.74	1 222.1	1 382.1	1.58	0.91
DEVELOPING COUNTRIES	301	371	1.43	1.64	1 326.4	1 607.6	4.21	1.96	778.9	878.3	2.66	2.44
LEAST DEVELOPED COUNTRIES (LDC)	0	0	..	..	23.7	38.0	9.63	4.42	14.1	24.8	9.36	5.28
OECD⁴	2 978	3 396	1.81	1.08	342.7	339.7	2.78	0.26	1 154.9	1 314.1	2.24	0.90
BRICS	83	90	-0.09	0.53	686.8	911.6	4.59	1.55	65.1	65.3	-2.18	0.06

.. Not available

Note: Calendar year; except year ending 30 June for New Zealand and Australia. Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	438 723	556 930	2.19	2.27	56.5	64.9	1.09	1.37
NORTH AMERICA	25 212	23 995	-1.43	-0.38	68.2	60.9	-2.10	-0.94
Canada	2 771	2 700	-0.94	0.00	74.0	66.1	-1.93	-0.76
United States	22 440	21 294	-1.49	-0.42	67.5	60.3	-2.12	-0.96
LATIN AMERICA	35 835	41 214	-0.13	1.24	54.6	57.8	-1.07	0.52
Argentina	1 562	1 686	-0.95	0.39	27.9	27.6	-1.22	-0.34
Brazil	16 319	19 793	1.01	1.62	77.0	88.4	0.19	1.17
Chile	259	238	-11.50	0.41	13.6	12.2	-12.54	0.25
Colombia	4 804	5 372	-2.29	1.15	94.5	100.1	-3.51	0.67
Mexico	3 450	3 271	-0.55	-0.47	26.9	23.1	-1.74	-1.30
Paraguay	320	440	-6.54	3.00	44.9	54.8	-7.75	1.94
Peru	1 901	2 470	2.21	2.26	57.7	68.0	0.76	1.40
EUROPE	75 752	75 550	-0.41	0.06	100.4	100.6	-0.50	0.17
European Union ¹	37 772	38 157	0.44	0.18	82.5	82.8	0.14	0.24
United Kingdom	7 423	7 192	-0.79	-0.28	111.1	105.5	-0.21	-0.43
Russia	16 630	17 001	-0.51	0.10	116.2	121.2	-0.61	0.33
Ukraine	6 721	6 079	-2.69	-0.35	153.7	149.8	-2.21	0.34
AFRICA	33 551	46 515	-0.11	3.27	25.3	27.2	-2.61	0.95
Egypt	621	935	-10.16	4.15	6.1	7.6	-12.02	2.50
Ethiopia	3 287	5 184	-0.94	4.49	28.6	35.0	-3.54	2.16
Nigeria	210	275	-1.75	2.58	1.0	1.0	-4.28	0.14
South Africa	1 999	2 267	-1.79	1.05	33.7	34.1	-3.18	0.04
ASIA	264 839	365 740	4.23	3.02	57.6	73.8	3.30	2.35
China ²	27 420	29 648	1.73	0.32	19.8	21.1	1.65	0.26
India	128 329	184 265	5.20	3.51	93.0	121.7	4.08	2.66
Indonesia	1 099	1 511	1.21	3.37	4.0	5.0	0.02	2.49
Iran	1 813	2 104	-5.72	1.31	21.6	22.5	-6.97	0.39
Japan	4 375	4 246	0.35	-0.15	34.6	35.4	0.56	0.35
Kazakhstan	5 322	6 712	2.78	1.93	283.4	322.6	1.35	1.04
Korea	1 583	1 536	0.13	-0.49	31.1	30.1	0.00	-0.47
Malaysia	49	56	-7.31	0.96	1.5	1.5	-8.54	-0.07
Pakistan	44 724	65 361	6.08	3.51	202.4	244.8	3.92	1.78
Philippines	15	19	-3.89	2.85	0.1	0.2	-5.30	1.66
Saudi Arabia	1 953	2 412	7.62	1.59	56.1	60.8	5.38	0.45
Thailand	1 182	1 430	2.01	1.38	16.9	20.3	1.66	1.35
Türkiye	16 822	22 718	4.26	2.56	199.6	253.3	2.72	2.03
Viet Nam	1 080	1 673	11.80	4.11	11.1	16.0	10.69	3.46
OCEANIA	3 535	3 916	1.70	0.48	67.6	65.4	-1.56	-0.70
Australia	2 981	3 349	1.45	0.55	102.4	101.5	-0.99	-0.51
New Zealand	545	556	3.20	0.03	42.5	40.2	-5.97	-0.52
DEVELOPED COUNTRIES	133 933	141 899	-0.03	0.59	92.5	95.5	-0.46	0.41
DEVELOPING COUNTRIES	304 791	415 030	3.30	2.91	48.4	58.5	2.03	1.84
LEAST DEVELOPED COUNTRIES (LDC)	22 273	33 123	1.05	4.08	25.1	29.4	-1.27	1.88
OECD³	107 016	112 459	0.18	0.47	75.5	76.6	-0.38	0.21
BRICS	190 697	252 974	3.58	2.65	59.3	74.6	2.86	2.18

Note: Calendar year; except year ending 30 June for New Zealand and Australia. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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

Calendar year

	PRODUCTION (kt)		Growth (%) ¹		INVENTORIES ('000 hd)		Growth (%)		YIELD (t/head)		Growth (%)	
	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	875 831	1 059 850	2.01	1.82	712 574	819 059	1.07	1.19	1.23	1.29	0.93	0.62
NORTH AMERICA	111 645	126 016	1.50	1.13	10 364	10 689	0.25	0.20	10.77	11.79	1.25	0.92
Canada	10 666	12 084	2.80	1.33	965	1 085	0.08	0.28	11.07	11.14	2.72	1.05
United States	100 979	113 931	1.37	1.10	9 400	9 604	0.26	0.20	10.74	11.86	1.10	0.91
LATIN AMERICA	82 906	96 322	0.20	1.39	37 458	39 470	-3.46	0.43	2.21	2.44	3.80	0.95
Argentina	10 660	12 034	-0.76	1.02	1 717	1 698	-0.49	-0.10	6.21	7.09	-0.26	1.12
Brazil	36 517	44 705	0.64	1.88	16 194	17 642	-4.86	0.87	2.26	2.53	5.79	1.00
Chile	2 037	2 196	-1.86	0.75	761	676	-5.50	-1.39	2.68	3.25	3.84	2.16
Colombia	5 762	6 150	-2.22	0.79	3 391	2 976	-8.66	-1.25	1.70	2.07	7.05	2.06
Mexico	12 894	13 705	1.83	0.63	2 600	2 673	1.06	0.32	4.96	5.13	0.76	0.31
Paraguay	335	470	-6.33	3.01	217	259	-0.55	1.48	1.54	1.81	-5.81	1.50
Peru	2 172	2 814	2.39	2.27	1 180	1 335	0.13	0.83	1.84	2.11	2.25	1.42
EUROPE	227 619	232 818	0.87	0.32	39 622	36 199	-1.13	-0.75	5.75	6.43	2.02	1.08
European Union ²	153 758	160 849	1.22	0.48	20 276	18 812	-0.75	-0.55	7.46	8.41	2.06	1.03
United Kingdom	15 092	13 758	0.75	-0.53	1 853	1 661	0.26	-1.06	8.14	8.28	0.49	0.53
Russia	31 969	31 081	0.70	0.00	7 805	7 371	-1.12	-0.47	4.10	4.22	1.85	0.47
Ukraine	9 404	8 572	-2.56	-0.37	2 550	2 013	-4.15	-2.24	3.69	4.26	1.66	1.92
AFRICA	44 589	59 728	0.01	2.92	234 640	274 831	1.74	1.39	0.19	0.22	-1.70	1.50
Egypt	4 562	5 463	-2.75	1.78	6 327	6 416	-0.85	0.10	0.72	0.85	-1.92	1.68
Ethiopia	3 627	5 721	-1.01	4.49	13 125	18 227	-1.65	2.86	0.28	0.31	0.66	1.59
Nigeria	526	661	-1.02	2.01	2 254	2 448	-0.53	0.43	0.23	0.27	-0.49	1.58
South Africa	2 843	3 288	-1.62	1.40	840	831	-1.49	-0.31	3.39	3.96	-0.13	1.72
ASIA	377 928	513 398	3.82	2.85	384 185	451 909	1.52	1.35	0.98	1.14	2.27	1.48
China ³	37 759	40 777	0.73	0.53	13 815	13 426	-0.79	-0.37	2.44	2.73	1.83	0.96
India	191 458	271 607	4.74	3.33	143 006	173 103	2.11	1.64	1.34	1.57	2.57	1.66
Indonesia	1 637	2 277	1.78	3.12	14 825	18 138	2.54	1.60	0.11	0.13	-0.74	1.49
Iran	7 622	8 231	-0.60	0.56	20 855	18 418	0.12	-1.15	0.37	0.45	-0.73	1.73
Japan	7 422	7 311	-0.11	-0.01	841	809	-0.92	-0.31	8.82	9.03	0.82	0.30
Kazakhstan	6 049	7 710	2.91	2.03	2 946	3 079	1.74	0.22	2.05	2.50	1.15	1.80
Korea	2 067	1 997	-0.47	-0.35	245	235	-0.91	-0.34	8.45	8.48	0.44	-0.01
Malaysia	49	56	-7.31	0.96	46	40	-7.23	-1.14	1.07	1.40	-0.08	2.12
Pakistan	57 694	82 895	5.87	3.34	37 465	47 837	2.12	2.19	1.54	1.73	3.67	1.13
Philippines	15	19	-3.89	2.85	5	6	-0.01	0.35	2.71	3.38	-3.88	2.49
Saudi Arabia	2 821	3 479	3.37	1.88	4 884	5 109	0.31	0.36	0.58	0.68	3.05	1.51
Thailand	1 259	1 520	2.35	1.38	223	220	-0.51	-0.39	5.66	6.90	2.87	1.78
Türkiye	23 736	31 699	4.08	2.42	32 807	37 712	4.97	0.89	0.72	0.84	-0.84	1.51
Viet Nam	1 080	1 673	11.80	4.11	355	447	7.92	2.19	3.04	3.74	3.59	1.88
OCEANIA	31 143	31 569	0.50	0.07	6 304	5 962	-0.77	-0.45	4.94	5.30	1.28	0.52
Australia	9 081	8 413	-1.08	-0.85	1 368	1 169	-2.77	-1.22	6.64	7.20	1.74	0.38
New Zealand	22 042	23 137	1.22	0.42	4 898	4 761	-0.13	-0.24	4.50	4.86	1.34	0.67
DEVELOPED COUNTRIES	407 063	437 198	1.09	0.73	74 309	73 891	-0.39	-0.06	5.48	5.92	1.49	0.78
DEVELOPING COUNTRIES	468 768	622 652	2.87	2.66	638 264	745 169	1.25	1.32	0.73	0.84	1.59	1.32
LEAST DEVELOPED COUNTRIES (LDC)	29 901	42 353	1.52	3.53	221 476	261 714	1.50	1.52	0.14	0.16	0.01	1.98
OECD⁴	372 429	402 513	1.26	0.75	80 608	83 365	0.90	0.18	4.62	4.83	0.36	0.57
BRICS	300 547	391 458	3.10	2.52	181 659	212 373	0.92	1.35	1.65	1.84	2.15	1.15

Note: Calendar year; except year ending 30 June for New Zealand and Australia. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.38. Main policy assumptions for dairy markets

Calendar year

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
CANADA												
Milk target price ²	CADc/litre	68.0	68.7	70.0	71.2	72.6	74.0	75.6	77.2	78.7	80.4	82.0
Butter support price	CAD/t	8 295.3	8 707.9	8 870.1	9 052.3	9 251.9	9 447.5	9 652.4	9 845.8	10 032.5	10 233.9	10 428.1
Cheese tariff-quota	kt pw	40.4	56.4	60.9	63.2	65.4	65.7	65.9	66.2	66.5	66.8	67.1
In-quota tariff	%	0.6	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	854	858	858	858	858	858	858	858	858	858	858
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	81.3	63.6	63.6	63.7	63.7	63.8	63.8	63.9	63.9	64.0	64.0
Cheese tariff-quotas	kt pw	114.3	104.3	104.7	105.0	105.3	105.6	106.0	106.3	106.6	106.9	106.9
JAPAN												
Direct payments ⁶	JPY/kg	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
Cheese tariff ⁷	%	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
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	%	271.0	246.6	270.9	285.7	297.1	303.0	306.1	311.8	314.3	319.0	323.5
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
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
Licensa social program	mln MXN	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	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	2.6	2.6	2.8	2.8	2.8	2.8	2.7	2.7	2.6	2.6
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	%	36.7	35.0	35.1	35.6	35.8	35.4	34.9	34.4	33.8	33.3	32.7
INDIA												
Butter tariff	%	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
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

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Note: Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

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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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	178 900	203 403	2.00	1.16	43 363	45 902	1.27	0.80	42 540	45 902	1.09	0.80
NORTH AMERICA	5 961	6 362	-1.16	0.51	6 271	6 968	1.87	0.83	2 520	2 661	-1.85	1.14
Canada	931	1 070	-1.24	1.58	677	638	0.72	-0.66	791	815	-0.14	0.94
United States	5 030	5 292	-1.14	0.31	5 594	6 330	2.02	1.00	1 729	1 846	-2.55	1.24
LATIN AMERICA	16 255	18 151	2.10	0.80	2 299	2 675	-0.23	1.11	5 310	6 201	3.32	1.58
Argentina	839	900	0.65	0.74	62	69	0.93	-0.70	595	680	-0.03	1.34
Brazil	1 334	1 521	0.48	1.22	537	560	-5.25	-0.58	58	67	4.05	0.82
Chile	3 336	4 328	0.68	2.22	132	135	3.80	0.00	1 666	2 771	2.74	4.69
Colombia	266	303	6.51	0.62	263	400	2.10	3.75	53	48	-4.94	-1.78
Mexico	1 825	1 925	1.09	0.33	481	521	3.52	2.01	369	299	11.03	-1.90
Paraguay	31	37	4.00	1.45	5	5	3.67	0.00	0	0	..	..
Peru	5 801	6 201	3.23	0.23	159	169	5.47	0.61	788	629	1.34	-1.79
EUROPE	17 405	18 757	0.82	0.88	11 586	11 612	0.22	0.35	10 505	12 011	0.97	1.55
European Union ¹	5 182	5 564	-0.18	0.66	8 166	8 370	1.05	-0.07	2 558	2 886	0.21	0.43
United Kingdom	855	976	-0.37	0.73	1 158	1 183	-1.65	-0.01	787	840	-1.59	-0.02
Norway	3 893	4 011	1.72	0.40	258	260	0.61	-0.38	2 918	2 997	0.37	0.41
Russia	5 247	5 923	2.31	1.56	844	813	-4.81	2.87	2 392	3 387	3.00	5.45
Ukraine	93	69	-9.46	10.03	553	405	1.10	11.53	33	19	-9.71	14.70
AFRICA	12 281	13 926	2.81	1.07	4 642	6 232	0.58	2.69	2 924	2 409	3.46	-1.86
Egypt	2 027	2 384	5.10	1.75	638	998	1.44	5.60	31	11	1.04	0.00
Ethiopia	61	73	7.29	1.64	3	5	3.21	4.81	1	0	-18.22	..
Nigeria	1 075	1 219	1.42	1.13	669	861	-7.88	0.41	4	4	-24.53	0.00
South Africa	519	554	-1.31	0.17	286	323	3.73	0.98	77	122	-15.55	0.83
ASIA	125 168	144 277	2.24	1.29	17 949	17 726	2.33	0.43	20 194	21 512	0.66	0.53
China ²	62 829	73 892	1.73	1.51	5 459	4 643	5.79	-0.08	7 347	7 696	-0.40	0.84
India	13 999	17 589	5.91	1.87	80	197	17.40	9.94	1 398	1 165	5.60	-3.35
Indonesia	12 456	13 820	3.49	1.17	150	275	-1.80	2.66	1 339	1 882	0.02	3.40
Iran	1 292	1 451	5.69	0.85	42	50	-6.36	1.51	134	106	9.13	-1.53
Japan	3 742	3 407	-1.83	-0.88	3 317	2 885	-1.57	-0.64	743	825	1.85	0.19
Kazakhstan	53	57	4.70	0.73	63	71	-2.66	1.53	40	41	0.58	0.00
Korea	1 963	1 932	-1.11	0.05	1 859	1 979	2.67	1.00	675	664	-0.14	0.48
Malaysia	1 659	1 809	-0.85	0.60	674	703	2.39	-0.36	421	425	5.37	-0.82
Pakistan	656	695	0.63	0.49	8	9	5.38	0.00	228	207	3.92	0.17
Philippines	2 767	3 307	-1.21	1.29	522	634	7.71	2.85	308	265	-2.34	-2.56
Saudi Arabia	161	204	9.92	1.69	302	334	-1.01	0.86	37	36	2.43	-1.32
Thailand	2 583	2 842	-1.10	0.87	2 017	1 974	2.35	-0.52	1 809	1 892	-3.46	0.61
Türkiye	821	790	3.86	-1.17	115	104	4.20	1.16	300	323	11.88	-2.09
Viet Nam	8 033	9 120	4.65	1.20	500	590	9.40	1.98	2 978	3 370	2.63	1.12
OCEANIA	1 830	1 930	3.09	0.24	626	690	-1.25	0.97	1 088	1 108	2.44	0.09
Australia	278	306	2.23	0.92	448	513	-0.65	1.28	78	52	5.20	-2.10
New Zealand	510	546	-0.86	0.31	59	60	0.96	0.00	408	437	-0.94	0.43
DEVELOPED COUNTRIES	28 909	30 473	0.12	0.57	22 277	22 705	0.39	0.40	14 390	16 160	0.34	1.35
DEVELOPING COUNTRIES	149 991	172 930	2.39	1.27	21 097	23 198	2.30	1.21	28 150	29 742	1.50	0.51
LEAST DEVELOPED COUNTRIES (LDC)	13 884	15 740	3.15	1.10	1 257	1 588	3.05	1.70	2 068	1 941	8.38	-0.63
OECD³	28 653	30 470	-0.14	0.50	22 839	23 723	0.87	0.35	13 076	14 804	0.42	1.05
BRICS	83 928	99 479	2.33	1.56	7 205	6 537	2.74	0.41	11 272	12 436	0.81	1.34

.. 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 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

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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 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	15 959	16 492	1.28	0.15	158 897	183 136	2.01	1.36	20.5	21.4	0.88	0.46
NORTH AMERICA	911	929	-1.02	0.08	8 221	9 232	1.18	0.78	22.3	23.5	0.49	0.22
Canada	9	19	-16.78	1.18	798	865	-0.10	0.48	21.1	21.0	-1.05	-0.28
United States	902	909	-0.65	0.06	7 423	8 368	1.32	0.81	22.4	23.8	0.67	0.27
LATIN AMERICA	5 887	6 275	1.08	-0.07	6 784	7 802	1.31	1.16	10.4	11.0	0.33	0.42
Argentina	0	0	0.00	0.00	305	288	2.18	-0.89	6.8	5.8	1.19	-1.67
Brazil	81	87	-2.22	1.07	1 731	1 927	-1.58	0.69	8.1	8.6	-2.36	0.22
Chile	1 269	1 209	-2.20	-1.13	235	243	0.26	0.34	12.3	12.4	-0.92	0.18
Colombia	0	0	0.00	0.00	476	657	5.64	2.98	9.4	12.2	4.31	2.49
Mexico	213	202	-5.21	0.04	1 723	1 945	1.56	1.19	13.4	13.7	0.38	0.34
Paraguay	0	0	0.00	0.00	36	42	3.94	1.27	5.0	5.2	2.60	0.22
Peru	4 234	4 610	3.50	0.20	963	1 101	4.51	1.36	29.2	30.3	3.02	0.51
EUROPE	2 457	2 420	3.53	0.41	15 742	15 684	0.04	0.11	21.0	21.2	-0.09	0.22
European Union ¹	736	665	3.84	0.68	9 940	10 254	0.42	0.13	22.3	23.2	0.30	0.23
United Kingdom	0	0	0.00	0.00	1 226	1 318	-0.84	0.54	18.1	18.6	-1.46	0.19
Norway	908	912	10.63	-0.06	275	312	0.74	1.08	50.8	52.7	-0.20	0.28
Russia	390	414	2.19	1.35	3 225	2 876	-0.37	-1.28	22.1	20.1	-0.52	-1.06
Ukraine	0	0	0.00	0.00	612	454	-0.33	11.18	14.0	11.2	0.17	11.95
AFRICA	672	737	-0.30	0.47	13 268	16 951	1.86	2.20	10.0	9.9	-0.70	-0.10
Egypt	0	0	0.00	0.00	2 633	3 371	4.34	2.77	25.8	27.5	2.18	1.14
Ethiopia	0	0	0.00	0.00	62	77	7.85	1.84	0.5	0.5	5.01	-0.44
Nigeria	0	0	0.00	0.00	1 740	2 076	-3.58	0.77	8.4	7.7	-6.06	-1.63
South Africa	295	320	2.16	0.73	432	436	2.51	0.18	7.3	6.5	1.06	-0.83
ASIA	5 936	6 041	1.54	0.26	113 939	132 335	2.47	1.46	24.7	26.6	1.50	0.81
China ²	1 390	1 654	-7.94	0.32	58 051	67 936	2.50	1.57	40.3	46.4	2.01	1.45
India	933	948	14.83	1.37	11 331	15 434	5.63	2.90	8.2	10.2	4.51	2.06
Indonesia	85	85	18.98	0.00	11 182	12 129	3.82	0.90	40.9	40.2	2.60	0.05
Iran	110	134	1.10	0.02	1 090	1 262	5.08	1.19	13.0	13.5	3.69	0.28
Japan	693	482	-0.63	-2.77	5 623	4 986	-1.79	-0.71	44.5	41.5	-1.59	-0.21
Kazakhstan	0	0	0.00	0.00	76	86	-0.23	1.77	4.0	4.2	-1.61	0.88
Korea	116	117	-3.52	-0.42	2 893	3 071	0.77	0.65	56.4	60.1	0.51	0.70
Malaysia	128	105	-0.20	-1.07	1 756	1 982	0.04	0.90	54.3	54.4	-1.30	-0.14
Pakistan	134	128	3.81	0.00	303	369	-2.31	0.85	1.4	1.4	-4.30	-0.84
Philippines	0	0	0.00	0.00	2 981	3 676	0.14	1.89	27.2	29.4	-1.32	0.70
Saudi Arabia	0	0	0.00	0.00	426	503	1.76	1.37	12.2	12.7	-0.36	0.23
Thailand	312	236	-5.28	-2.40	2 292	2 587	4.10	0.73	32.8	36.8	3.74	0.70
Türkiye	123	151	4.31	2.51	512	419	0.97	-1.05	6.1	4.7	-0.52	-1.57
Viet Nam	1 379	1 482	13.76	1.29	3 983	4 758	3.95	1.52	40.9	45.5	2.92	0.89
OCEANIA	97	90	-4.57	0.02	978	1 162	0.08	1.38	23.4	24.5	-1.33	0.23
Australia	34	33	-3.55	0.02	614	735	0.14	1.47	24.1	25.8	-1.17	0.50
New Zealand	54	57	2.50	0.01	106	112	-0.92	-0.17	22.0	21.5	-1.84	-0.84
DEVELOPED COUNTRIES	4 589	4 385	1.96	-0.06	31 262	31 781	0.06	0.22	21.8	21.7	-0.35	0.03
DEVELOPING COUNTRIES	11 371	12 107	1.05	0.23	127 671	151 385	2.55	1.61	20.2	21.3	1.25	0.56
LEAST DEVELOPED COUNTRIES (LDC)	320	296	2.35	0.33	12 532	14 941	2.31	1.52	14.1	13.3	-0.04	-0.63
OECD³	5 058	4 757	0.36	-0.46	32 179	33 647	0.29	0.37	23.1	23.4	-0.24	0.11
BRICS	3 090	3 422	-1.42	0.78	74 771	88 608	2.67	1.66	23.1	26.0	1.90	1.20

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 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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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 2019-21est	2031		Average 2019-21est	2031		Average 2019-21est	2031	
WORLD	124 707	140 445	0.98	126 110	141 010	0.91	102 365	115 894	0.99
NORTH AMERICA	60 172	63 721	0.21	57 452	60 649	0.27	54 175	57 160	0.26
Canada	1 990	2 178	0.95	3 217	3 866	1.46	2 674	3 215	1.38
United States	58 182	61 543	0.18	54 235	56 783	0.19	51 501	53 945	0.20
LATIN AMERICA	36 656	38 948	0.91	35 815	37 480	1.04	32 579	34 061	1.03
Argentina	1 128	1 164	0.02	1 116	1 118	-0.07	926	901	-0.73
Brazil	32 748	33 999	0.88	31 711	32 531	1.02	29 924	30 941	1.03
Chile	5	8	6.16	41	37	1.10	0	0	0.00
Colombia	495	794	1.86	790	952	1.02	687	851	1.14
Mexico	225	311	-0.92	461	452	-0.27	262	256	-0.37
Paraguay	583	946	2.49	403	638	3.47	360	575	3.93
Peru	212	285	2.36	265	386	1.69	181	232	1.84
EUROPE	7 603	8 173	0.74	8 758	8 490	-0.47	5 720	5 466	-0.76
European Union ¹	6 112	6 292	0.16	6 819	6 081	-1.51	4 924	4 181	-2.12
United Kingdom	577	910	5.95	1 010	1 487	4.26	664	1 132	6.02
Russia	643	641	0.07	534	523	0.03	0	0	0.00
Ukraine	160	215	2.72	165	192	3.11	88	130	3.76
AFRICA	1 271	1 301	2.43	1 404	1 646	2.09	122	193	3.74
Egypt	10	12	1.37	8	6	2.76	0	0	0.00
Ethiopia	113	165	3.57	114	167	3.53	50	84	4.15
Nigeria	49	79	4.75	199	228	1.42	0	0	0.00
South Africa	323	352	0.33	135	175	0.68	5	5	0.30
ASIA	18 677	27 981	3.15	22 381	32 476	2.45	9 554	18 824	4.21
China ²	10 433	11 032	0.28	10 753	11 802	0.44	3 948	4 610	0.90
India	3 560	10 970	8.76	4 089	11 510	8.17	2 303	9 670	10.72
Indonesia	182	231	2.57	153	232	2.55	0	0	0.00
Iran	148	173	1.30	216	219	1.01	0	0	0.00
Japan	64	57	-0.10	1 717	1 496	-1.42	936	731	-2.71
Kazakhstan	59	74	2.14	85	92	1.68	0	0	0.00
Korea	155	139	-1.20	668	1 490	-2.76	0	884	-3.82
Malaysia	0	4	23.39	16	22	2.06	0	0	0.00
Pakistan	571	771	0.67	21	23	0.12	0	0	0.00
Philippines	361	600	3.64	838	1 134	1.76	596	819	1.30
Saudi Arabia	0	48	14.06	81	105	4.28	0	0	0.00
Thailand	1 794	2 064	0.51	1 807	2 055	0.54	1 531	1 753	0.62
Türkiye	131	202	2.82	312	394	1.35	91	119	0.83
Viet Nam	246	387	2.41	263	357	2.12	150	239	3.25
OCEANIA	326	321	-0.43	300	269	-0.63	215	190	-0.94
Australia	317	310	-0.48	292	260	-0.69	215	190	-0.94
New Zealand	3	3	0.00	0	0	..	0	0	0.00
DEVELOPED COUNTRIES	68 589	72 756	0.27	68 535	71 268	0.14	61 051	63 552	0.13
DEVELOPING COUNTRIES	56 117	67 688	1.81	57 575	69 742	1.76	41 314	52 342	2.14
LEAST DEVELOPED COUNTRIES (LDC)	735	653	3.51	740	936	2.73	0	0	0.00
OECD³	68 254	72 748	0.27	69 736	73 438	0.08	61 997	65 528	0.07
BRICS	47 708	56 993	1.85	47 221	56 541	1.97	36 180	45 226	2.45

.. Not available

Note: Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

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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 2019-21est	2031	Average 2019-21est	2031		Average 2019-21est	2031	
WORLD	..	..	11 475	11 569	-0.10	10 335	10 429	-0.11
NORTH AMERICA	..	..	2 338	2 263	1.16	5 109	5 356	-0.12
Canada	6.0	6.8	1 291	1 780	2.08	90	91	-0.09
United States	9.8	11.0	1 047	483	-1.61	5 019	5 264	-0.12
LATIN AMERICA	..	..	1 880	1 127	0.36	2 911	2 592	-0.99
Argentina	10.9	11.7	2	3	5.35	21	50	2.56
Brazil	46.5	49.1	961	375	0.06	2 181	1 839	-1.53
Chile	..	..	37	32	0.00	1	3	0.00
Colombia	..	..	302	168	-2.17	6	9	0.48
Mexico	0.7	1.0	238	142	1.26	2	1	-0.20
Paraguay	..	..	0	0	..	180	308	0.71
Peru	..	..	211	236	0.00	157	136	0.00
EUROPE	..	..	1 993	1 933	0.44	958	1 021	2.47
European Union ¹	5.4	6.6	1 194	1 090	-0.19	610	707	3.76
United Kingdom	4.4	6.7	602	703	1.65	165	126	0.00
Russia	0.0	0.0	1	2	-1.14	111	119	0.22
Ukraine	..	..	27	2	0.00	21	25	0.00
AFRICA	..	..	682	604	0.52	276	259	0.00
Egypt	..	..	2	2	0.00	4	8	0.00
Ethiopia	..	..	1	2	0.00	0	0	..
Nigeria	..	..	151	149	0.00	0	0	..
South Africa	..	..	8	11	0.00	197	188	0.00
ASIA	..	..	4 536	5 609	-0.86	1 003	1 115	-0.03
China ²	2.0	2.0	358	862	1.73	218	92	-4.39
India	..	..	623	640	0.18	94	99	-0.10
Indonesia	..	..	31	65	0.00	60	63	0.00
Iran	..	..	74	53	0.00	7	7	0.00
Japan	2.1	2.0	1 655	1 441	-1.46	1	2	-0.02
Kazakhstan	..	..	29	21	0.00	3	3	0.00
Korea	0.0	10.0	521	1 350	-2.92	0	0	..
Malaysia	..	..	16	18	0.00	0	0	..
Pakistan	..	..	0	1	1.16	550	749	0.69
Philippines	..	..	477	534	0.00	1	0	..
Saudi Arabia	..	..	81	57	0.00	0	0	..
Thailand	..	..	26	11	2.20	14	20	-1.23
Türkiye	..	..	186	197	0.00	5	5	0.00
Viet Nam	..	..	36	14	-2.65	19	44	2.70
OCEANIA	..	..	46	34	-1.46	78	86	-0.23
Australia	1.3	1.2	44	32	-1.53	74	82	-0.24
New Zealand	0.0	0.0	2	2	0.00	4	4	0.00
DEVELOPED COUNTRIES	..	..	6 121	5 744	0.16	6 350	6 659	0.23
DEVELOPING COUNTRIES	..	..	5 354	5 826	-0.35	3 984	3 770	-0.70
LEAST DEVELOPED COUNTRIES (LDC)	..	..	316	314	1.03	36	31	0.00
OECD³	..	..	7 297	7 560	-0.50	5 981	6 299	0.24
BRICS	..	..	1 951	1 889	0.83	2 801	2 337	-1.44

.. Not available

Note: Average 2019-21est: Data for 2021 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 (2022), "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 2019-21est	2031		Average 2019-21est	2031	
WORLD	48 422	55 390	-0.02	52 215	56 006	-0.02
NORTH AMERICA	9 283	9 631	-1.28	10 600	10 829	-1.14
Canada	379	430	0.80	454	420	-0.53
United States	8 905	9 202	-1.37	10 145	10 409	-1.17
LATIN AMERICA	8 897	10 835	1.65	8 129	10 195	1.92
Argentina	1 765	2 003	3.10	856	1 242	7.83
Brazil	6 325	7 695	1.25	6 307	7 675	1.24
Chile	0	0	..	0	0	..
Colombia	622	856	1.72	622	856	1.72
Mexico	0	0	..	0	0	..
Paraguay	12	28	5.46	12	28	5.46
Peru	173	254	2.66	333	394	1.63
EUROPE	15 449	16 220	-0.98	20 956	18 296	-1.49
European Union ¹	14 882	15 599	-1.04	19 312	17 050	-1.50
United Kingdom	568	621	0.89	1 374	977	-2.35
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	14 755	18 652	0.66	12 503	16 650	1.49
China ²	1 365	1 170	-5.97	742	864	4.29
India	209	389	1.84	155	323	1.38
Indonesia	8 476	10 930	1.27	8 006	10 927	1.31
Iran	0	0	..	0	0	..
Japan	23	21	-1.00	15	16	0.05
Kazakhstan	0	0	..	0	0	..
Korea	716	637	-0.24	691	616	-0.23
Malaysia	1 305	1 638	2.26	842	1 311	2.59
Pakistan	0	0	..	0	0	..
Philippines	185	279	2.24	185	279	2.24
Saudi Arabia	0	0	..	0	0	..
Thailand	1 443	2 142	0.93	1 867	2 314	1.24
Türkiye	0	0	..	0	0	..
Viet Nam	0	0	..	0	0	..
OCEANIA	37	51	2.14	27	36	3.17
Australia	37	51	2.14	27	36	3.18
New Zealand	0	0	..	0	0	..
DEVELOPED COUNTRIES	24 793	25 924	-1.09	31 597	29 176	-1.35
DEVELOPING COUNTRIES	23 629	29 467	1.02	20 618	26 830	1.65
LEAST DEVELOPED COUNTRIES (LDC)	0	0	..	0	0	..
OECD³	26 130	27 417	-0.99	32 910	30 648	-1.26
BRICS	7 899	9 254	0.11	7 204	8 863	1.51

.. Not available

Note: Average 2019-21est: Data for 2021 are estimated.

1. Refers to all current European Union member States (excludes the United Kingdom)
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3. Excludes Iceland and Costa Rica but includes all EU member countries.
4. Least-squares growth rate (see glossary).

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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 2019-21est	2031	Average 2019-21est	2031		Average 2019-21est	2031	
WORLD	..	..	7 799	6 407	-0.98	6 615	5 801	-1.08
NORTH AMERICA	..	..	2 211	2 355	0.27	883	1 158	0.47
Canada	1.5	1.5	370	328	-0.91	294	338	0.76
United States	5.9	6.0	1 841	2 027	0.47	589	820	0.35
LATIN AMERICA	..	..	160	140	0.00	923	777	-1.48
Argentina	8.0	8.5	0	0	..	910	758	-1.57
Brazil	11.7	11.6	0	0	..	13	19	3.59
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	..	..	160	140	0.00	0	0	..
EUROPE	..	..	5 033	3 635	-1.99	1 720	1 573	3.57
European Union ¹	9.6	12.1	3 890	2 932	-1.79	1 653	1 496	3.69
United Kingdom	5.0	4.8	873	434	-5.45	67	77	1.52
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	..	..	395	275	4.03	3 079	2 278	-3.94
China ²	0.7	0.6	390	102	-1.26	1 012	408	-14.89
India	..	..	3	1	0.74	57	67	4.87
Indonesia	..	..	0	0	..	470	3	-25.84
Iran	..	..	0	0	..	0	0	..
Japan	0.1	0.1	1	1	-0.21	9	6	-3.12
Kazakhstan	..	..	0	0	..	0	0	..
Korea	0.0	0.0	0	0	..	24	22	-0.77
Malaysia	..	..	0	0	..	463	326	1.04
Pakistan	..	..	0	0	..	0	0	..
Philippines	..	..	0	0	..	0	0	..
Saudi Arabia	..	..	0	0	..	0	0	..
Thailand	..	..	1	171	22.34	9	0	..
Türkiye	..	..	0	0	..	0	0	..
Viet Nam	..	..	0	0	..	0	0	..
OCEANIA	..	..	1	1	-0.37	11	16	0.00
Australia	0.2	0.4	1	1	-0.38	11	16	0.00
New Zealand	0.0	0.0	0	0	..	0	0	..
DEVELOPED COUNTRIES	..	..	7 246	5 992	-1.15	2 622	2 753	2.11
DEVELOPING COUNTRIES	..	..	554	414	2.18	3 993	3 048	-3.32
LEAST DEVELOPED COUNTRIES (LDC)	..	..	0	0	..	0	0	..
OECD³	..	..	7 246	5 992	-1.15	2 647	2 774	2.08
BRICS	..	..	393	103	-1.25	1 083	494	-13.12

.. Not available

Note: Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.42. Main policy assumptions for biofuel markets

		2021est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
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	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
EUROPEAN UNION												
Biofuel												
Energy share in fuel consumption ⁶	%	8.2	8.2	8.3	8.5	8.7	8.9	9.2	9.5	9.9	10.3	10.5
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	%	8.0	10.0	10.0	10.0	20.0	20.0	20.0	20.0	20.0	20.0	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	%	20.0	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	%	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
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	75 025	73 411	72 060	72 008	71 955	71 902	71 850	71 797	71 745	71 693	71 640
advanced mandate	mIn L	19 368	19 368	19 368	19 368	19 368	19 368	19 368	19 368	19 368	19 368	19 368
cellulosic ethanol	mIn L	1 737	1 737	1 737	1 737	1 737	1 737	1 737	1 737	1 737	1 737	1 737
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	26.42	26.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Note: 2021est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.43.1. Cotton projections: Production and trade

Marketing year

	PRODUCTION (kt)		Growth (%) ⁴		IMPORTS (kt)		Growth (%) ⁴		EXPORTS (kt)		Growth (%) ⁴	
	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	26 177	30 554	0.19	1.58	9 836	12 436	1.39	2.28	9 738	12 436	1.22	2.28
NORTH AMERICA	3 784	4 459	2.01	1.51	1	1	-3.24	0.62	3 322	3 795	4.35	1.67
Canada	0	0	..	..	0	0	..	..	0	0	..	..
United States	3 784	4 459	2.01	1.51	1	1	5.82	1.01	3 322	3 795	4.35	1.67
LATIN AMERICA	3 220	4 780	7.51	5.12	317	341	-3.87	0.52	2 145	3 630	14.05	6.34
Argentina	284	337	4.39	1.28	0	0	-63.84	..	121	118	11.49	-0.20
Brazil	2 583	4 064	8.76	6.07	3	3	-21.64	0.01	1 924	3 396	14.42	6.95
Chile	0	0	..	..	0	0	..	..	0	0	..	..
Colombia	17	16	-5.14	0.00	17	11	-8.90	0.00	0	0	-70.66	..
Mexico	301	324	4.82	0.61	173	206	-4.16	0.41	94	109	14.70	0.35
Paraguay	4	5	-10.36	-0.05	2	2	13.01	0.59	5	5	-5.81	-0.59
Peru	20	22	-4.70	-0.36	41	39	-4.08	0.12	1	0	-7.64	..
EUROPE	282	295	-1.31	0.26	250	311	-6.10	0.24	352	421	-3.14	-0.07
European Union ¹	281	294	-1.32	0.26	205	270	-5.54	0.18	350	419	-3.16	-0.07
United Kingdom	0	0	..	..	0	0	..	..	0	0	..	..
Russia	0	0	..	..	31	27	-10.58	0.00	0	1	40.14	0.00
Ukraine	0	0	..	..	1	1	-7.04	3.14	0	0	..	..
AFRICA	2 066	2 666	5.18	1.50	147	133	-0.57	1.10	1 773	2 385	5.03	1.58
Egypt	84	76	-2.51	0.95	110	104	7.38	1.63	82	48	11.68	-1.60
Ethiopia	62	82	6.59	2.80	0	1	-34.06	..	2	0	-47.79	..
Nigeria	78	93	3.66	0.00	1	1	0.00	0.00	42	0	-0.36	0.00
South Africa	28	25	19.17	0.14	13	12	-4.56	-0.50	25	0	21.79	0.51
ASIA	16 321	17 963	-1.46	0.95	9 120	11 649	1.97	2.41	1 658	1 815	-8.12	-0.08
China ²	5 843	5 879	-2.18	0.32	2 318	2 513	-2.20	-0.37	33	29	18.06	-0.16
India	6 627	7 552	0.00	1.34	255	109	1.08	-2.17	1 014	1 271	-6.32	2.22
Indonesia	3	3	-9.30	0.30	594	761	-2.08	3.90	1	1	-34.22	-3.75
Iran	70	86	2.48	0.86	79	112	5.91	3.98	0	0	..	..
Japan	0	0	..	..	42	37	-6.64	-0.26	0	0	..	..
Kazakhstan	79	114	1.65	2.48	0	0	..	..	66	96	2.45	2.31
Korea	0	0	..	..	140	198	-9.60	0.49	0	1	-26.09	0.00
Malaysia	0	0	..	..	150	172	5.90	1.96	61	45	0.93	-1.92
Pakistan	1 179	1 241	-7.77	1.00	954	1 290	17.76	1.98	16	9	-23.21	-0.42
Philippines	0	0	..	..	10	11	-0.78	4.50	0	0	..	..
Saudi Arabia	0	0	..	..	0	0	..	..	0	0	..	..
Thailand	1	1	2.41	-1.65	168	197	-9.73	2.54	0	0	..	..
Türkiye	845	1 190	2.69	2.09	1 044	972	2.64	1.04	111	152	13.23	-1.02
Viet Nam	1	1	-11.95	0.49	1 557	2 464	12.70	4.71	0	0	..	..
OCEANIA	504	393	-6.33	-2.27	1	1	-0.18	0.00	488	390	-8.00	-2.29
Australia	503	392	-6.34	-2.27	0	0	..	..	487	389	-8.02	-2.30
New Zealand	1	1	0.00	0.00	1	1	0.00	0.00	1	1	0.00	0.00
DEVELOPED COUNTRIES	6 112	6 909	0.49	1.01	311	365	-5.99	0.17	4 576	4 904	-0.99	0.51
DEVELOPING COUNTRIES	20 065	23 645	0.11	1.75	9 525	12 071	1.75	2.35	5 163	7 532	3.61	3.61
LEAST DEVELOPED COUNTRIES (LDC)	1 549	2 063	4.36	1.55	1 703	2 714	5.94	4.50	1 195	1 726	4.79	1.81
OECD³	5 741	6 685	1.00	1.23	1 626	1 698	-1.34	0.70	4 375	4 875	1.59	1.00
BRICS	15 081	17 520	0.22	1.88	2 620	2 663	-2.34	-0.45	2 996	4 718	3.31	5.37

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.43.2. Cotton projections: Consumption

Marketing year

	CONSUMPTION (kt) ⁴		Growth (%) ⁵	
	Average 2019-21est	2031	2012-21	2022-31
WORLD	25 528	30	1.02	1.62
NORTH AMERICA	512	636	-5.41	1.56
Canada	0	0	..	..
United States	512	636	-5.40	1.56
LATIN AMERICA	1 410	1 376	-1.93	0.41
Argentina	130	112	-1.07	0.18
Brazil	708	663	-2.42	0.33
Chile	0	0	..	..
Colombia	31	27	-8.11	0.00
Mexico	386	420	-0.67	0.55
Paraguay	2	1	-11.85	3.43
Peru	64	60	-4.16	-0.04
EUROPE	167	183	-6.43	1.46
European Union ¹	129	143	-4.46	0.91
United Kingdom	0	0	..	..
Russia	25	26	-14.57	4.54
Ukraine	1	1	-7.39	3.19
AFRICA	363	410	-0.32	1.89
Egypt	134	132	0.12	2.66
Ethiopia	55	83	3.10	2.86
Nigeria	29	30	6.07	0.00
South Africa	20	16	-1.23	-0.69
ASIA	23 071	27 683	1.52	1.68
China ²	7 970	8	0.59	0.05
India	5 644	6	1.63	1.21
Indonesia	575	763	-2.59	3.90
Iran	141	198	3.96	2.53
Japan	43	37	-6.64	-0.28
Kazakhstan	16	19	1.70	3.44
Korea	140	198	-9.32	0.51
Malaysia	89	127	18.86	3.79
Pakistan	2 221	3	-0.65	1.50
Philippines	10	11	-0.31	4.52
Saudi Arabia	0	0	..	..
Thailand	185	198	-8.68	2.51
Türkiye	1 596	2 001	1.75	2.29
Viet Nam	1 546	2	13.19	4.72
OCEANIA	4	3	-11.93	0.00
Australia	3	2	-15.13	0.00
New Zealand	1	1	0.00	0.00
DEVELOPED COUNTRIES	1 709	2 340	0.71	2.52
DEVELOPING COUNTRIES	23 819	27 953	1.04	1.55
LEAST DEVELOPED COUNTRIES (LDC)	1 910	3 048	4.41	4.13
OECD³	2 842	3 467	-1.54	1.71
BRICS	14 366	15 354	0.76	0.54

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.44. Main policy assumptions for cotton markets

Marketing year

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ARGENTINA												
Export tax equivalent of export barriers	%	2.8	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	5 967.2	8 490.0	10 629.9	10 629.9	10 629.9	10 629.9	10 629.9	10 629.9	10 629.9	10 629.9	10 629.9
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
RUSSIA												
Tariff equivalent of import barriers	%	3.3	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 2019-21est: Data for 2021 are estimated.

Source: OECD/FAO (2022), "OECD-FAO Agricultural Outlook", *OECD Agriculture statistics* (database). dx.doi.org/10.1787/agr-outl-data-en

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

Calendar year

	PRODUCTION (kt)		Growth (%) ⁴		FOOD CONSUMPTION (kg/cap)		Growth (%) ⁴	
	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	246 781	288 262	2.30	1.40	16.9	18.0	0.75	0.64
NORTH AMERICA	5 636	5 897	0.88	0.28	12.7	12.5	0.53	-0.31
Canada	966	1 010	0.44	0.39	17.0	16.6	1.79	-0.46
United States	4 670	4 888	0.98	0.26	12.2	12.0	0.34	-0.30
LATIN AMERICA	14 050	15 013	-0.03	0.63	12.3	12.7	-0.27	0.38
Argentina	629	700	1.18	0.93	9.4	9.4	-0.48	0.02
Brazil	5 880	5 412	-3.23	-0.53	11.6	10.7	-3.59	-0.50
Chile	290	302	3.16	0.10	14.3	16.0	1.62	0.88
Colombia	1 414	1 539	2.96	0.81	22.5	24.0	1.65	0.48
Mexico	404	463	-0.15	1.07	3.4	3.4	-0.87	0.03
Paraguay	1 049	1 248	5.66	1.55	40.5	39.8	0.01	0.03
Peru	1 747	2 150	2.98	1.95	34.6	40.7	2.24	1.42
EUROPE	28 600	29 306	2.10	0.68	17.8	17.8	0.23	0.14
European Union ¹	12 932	13 406	1.98	0.17	13.5	12.8	-0.99	-0.40
United Kingdom	1 178	1 287	1.70	0.84	24.9	25.9	1.82	0.31
Russia	7 430	8 034	2.96	0.49	25.1	26.9	1.54	0.51
Ukraine	5 477	4 899	2.59	2.60	29.1	28.9	1.17	1.76
AFRICA	97 683	121 973	2.92	1.95	41.8	42.6	0.46	0.20
Egypt	1 205	1 525	2.37	2.28	8.3	9.1	0.09	0.86
Ethiopia	2 561	3 317	2.95	2.37	18.7	18.9	-0.41	0.21
Nigeria	33 523	41 138	2.82	1.76	69.7	70.7	0.59	0.16
South Africa	505	630	1.35	2.08	5.9	5.9	-0.83	0.01
ASIA	99 701	114 817	2.23	1.19	10.5	10.8	0.39	0.25
China ²	44 233	47 633	1.66	0.57	15.3	15.3	-0.05	0.03
India	14 190	17 163	3.00	1.60	7.3	8.0	1.18	0.73
Indonesia	9 873	11 372	2.61	1.04	19.3	20.3	1.52	0.29
Iran	986	1 073	0.41	0.99	9.9	9.8	-1.03	0.09
Japan	719	696	-1.73	-0.14	6.2	6.2	-0.95	0.03
Kazakhstan	823	999	3.21	1.82	21.9	24.0	0.77	0.79
Korea	275	286	2.87	0.17	5.4	5.6	3.66	0.01
Malaysia	40	47	1.95	1.32	3.7	4.2	1.15	1.07
Pakistan	1 088	1 311	3.39	1.59	3.8	4.0	1.13	0.54
Philippines	1 102	1 427	3.02	2.25	9.8	11.0	1.54	1.02
Saudi Arabia	78	95	-0.85	1.98	4.8	5.2	3.74	0.59
Thailand	11 287	14 262	2.90	2.19	5.5	6.0	0.37	0.70
Türkiye	746	786	-1.82	0.50	6.6	6.4	-4.08	-0.01
Viet Nam	4 271	5 432	3.28	2.00	3.9	4.0	-0.12	0.01
OCEANIA	1 111	1 255	0.97	0.70	22.1	22.6	-0.69	0.00
Australia	246	265	-1.10	0.60	9.9	8.8	-2.13	-0.99
New Zealand	141	151	2.76	0.49	11.8	12.7	-0.16	0.61
DEVELOPED COUNTRIES	38 344	39 899	1.81	0.69	14.5	14.3	0.15	-0.02
DEVELOPING COUNTRIES	208 437	248 363	2.39	1.52	17.4	18.8	0.84	0.72
LEAST DEVELOPED COUNTRIES (LDC)	49 807	63 612	3.12	2.16	35.3	37.1	0.92	0.47
OECD³	24 251	25 364	1.42	0.29	11.7	11.5	-0.19	-0.17
BRICS	72 237	78 872	1.55	0.71	11.9	12.1	0.01	0.10

Note: Calendar year. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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

Calendar year

	PRODUCTION (kt)		Growth (%) ⁴		FOOD CONSUMPTION (kg/cap)		Growth (%) ⁴	
	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	97 276	120 053	3.78	1.71	7.9	9.0	1.56	1.07
NORTH AMERICA	9 620	11 491	1.40	1.52	5.4	6.2	2.30	1.20
Canada	6 632	7 677	0.66	1.22	12.2	13.8	3.52	1.02
United States	2 988	3 815	3.29	2.16	4.6	5.3	2.05	1.21
LATIN AMERICA	7 640	8 431	1.20	1.00	9.6	10.2	-1.82	0.52
Argentina	815	987	6.97	1.56	2.6	3.1	15.84	1.46
Brazil	2 997	3 091	0.23	0.65	12.7	13.0	-3.06	0.51
Chile	67	81	4.22	0.90	4.2	4.3	3.02	0.08
Colombia	197	209	-0.89	0.33	6.5	6.8	-0.91	0.25
Mexico	1 732	1 838	1.49	0.88	8.6	9.2	-2.21	0.00
Paraguay	88	107	4.44	0.99	10.0	10.5	2.59	0.34
Peru	251	306	-1.10	0.70	8.4	9.1	-0.78	0.84
EUROPE	10 245	12 879	6.12	2.57	3.6	4.6	2.52	3.06
European Union ¹	4 050	5 813	5.34	3.73	4.2	5.7	2.73	3.99
United Kingdom	836	952	6.88	1.05	3.1	3.1	-0.28	0.10
Russia	3 646	4 365	6.49	1.57	2.8	3.3	5.44	1.24
Ukraine	1 142	1 071	14.62	3.17	1.5	1.7	-0.44	0.66
AFRICA	21 903	27 575	3.72	1.82	11.6	11.7	0.28	0.00
Egypt	397	433	7.57	0.23	4.9	5.2	-2.37	0.53
Ethiopia	3 279	3 958	6.14	1.64	22.3	22.0	3.03	-0.19
Nigeria	3 787	4 857	5.10	1.82	12.1	12.5	2.58	-0.08
South Africa	92	101	0.87	0.82	1.5	1.5	-7.51	0.11
ASIA	45 136	56 116	4.48	1.65	7.6	8.9	2.41	1.22
China ²	5 532	6 146	3.37	0.75	1.7	2.0	3.87	1.51
India	26 987	34 276	6.28	1.77	17.3	20.1	2.99	1.01
Indonesia	183	202	-5.23	0.82	0.9	1.0	-4.07	0.57
Iran	527	592	-5.16	1.00	7.4	7.5	-2.53	0.18
Japan	98	96	-0.43	-0.05	1.6	1.6	0.45	0.14
Kazakhstan	866	1 317	42.04	3.78	0.5	0.5	-0.52	0.11
Korea	16	22	-0.56	3.40	1.4	1.4	-0.27	-0.03
Malaysia	0	0	..	..	2.9	2.9	-0.92	0.08
Pakistan	457	545	-7.39	1.13	5.4	6.1	-0.86	0.92
Philippines	74	80	0.44	0.47	1.6	1.7	0.99	0.68
Saudi Arabia	15	18	1.54	0.63	5.6	5.7	-0.72	0.04
Thailand	207	230	-0.50	0.03	2.5	2.6	-1.57	0.21
Türkiye	1 337	1 554	1.20	0.82	13.2	13.5	0.53	0.10
Viet Nam	292	357	-0.13	1.01	3.3	3.9	0.35	1.20
OCEANIA	2 732	3 560	2.46	1.19	1.7	1.9	0.91	1.03
Australia	2 695	3 522	2.53	1.21	1.4	1.6	3.85	1.40
New Zealand	22	23	-2.33	0.53	3.3	3.7	-1.20	1.20
DEVELOPED COUNTRIES	24 272	30 177	4.12	1.99	3.6	4.3	1.96	2.10
DEVELOPING COUNTRIES	73 003	89 876	3.68	1.62	8.9	10.0	1.43	0.89
LEAST DEVELOPED COUNTRIES (LDC)	18 424	23 414	2.47	1.97	11.0	11.6	-0.23	0.49
OECD³	20 736	25 672	2.37	1.80	5.1	6.0	1.18	1.57
BRICS	39 254	47 980	5.26	1.54	9.1	10.8	2.59	1.29

.. Not available

Note: Calendar year. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.47. Egg projections : Production and food consumption

Calendar year

	PRODUCTION (kt)		Growth (%) ⁴		FOOD CONSUMPTION (kg/cap)		Growth (%) ⁴	
	Average 2019-21est	2031	2012-21	2022-31	Average 2019-21est	2031	2012-21	2022-31
WORLD	90 513	105 809	3.04	1.34	10.9	11.6	1.75	0.48
NORTH AMERICA	6 432	7 469	2.31	1.86	16.9	18.1	1.71	0.82
Canada	602	691	3.54	1.03	16.2	17.2	3.22	0.42
United States	5 830	6 779	2.19	1.95	17.0	18.2	1.56	0.86
LATIN AMERICA	9 880	11 300	3.17	1.02	14.3	15.1	2.16	0.35
Argentina	863	968	3.75	1.01	19.0	19.5	2.79	0.21
Brazil	2 854	3 120	4.12	0.62	13.3	13.8	3.39	0.16
Chile	227	256	1.22	0.67	9.6	10.8	-0.54	0.67
Colombia	889	1 091	4.34	1.44	13.9	16.9	3.15	1.28
Mexico	3 030	3 435	2.59	1.03	23.8	24.4	1.41	0.17
Paraguay	119	151	-0.82	2.03	16.4	18.5	-1.88	1.00
Peru	503	593	5.67	1.03	11.2	12.6	4.38	0.51
EUROPE	11 494	12 428	1.13	0.56	14.6	15.9	0.83	0.63
European Union ¹	6 364	6 834	1.35	0.44	13.6	14.6	1.19	0.44
United Kingdom	1 007	1 129	2.96	0.78	16.1	17.3	1.25	0.38
Russia	2 618	2 711	1.60	0.23	17.9	19.0	1.18	0.45
Ukraine	940	1 135	-2.41	1.73	14.3	20.3	-3.32	3.18
AFRICA	3 459	4 360	1.01	1.97	2.2	2.2	-1.59	0.02
Egypt	384	488	-2.35	2.72	2.9	3.3	-4.42	1.75
Ethiopia	55	83	3.85	3.62	0.4	0.5	0.66	1.99
Nigeria	640	800	-0.11	1.75	2.8	2.8	-2.72	-0.53
South Africa	564	626	2.10	0.74	7.2	7.3	1.08	-0.06
ASIA	58 901	69 816	3.66	1.44	11.9	13.3	2.47	0.87
China ²	33 945	36 300	2.21	0.64	23.5	24.7	1.73	0.52
India	5 966	9 199	6.33	3.14	3.7	5.5	5.38	2.71
Indonesia	5 292	7 766	20.73	3.44	15.6	22.3	19.34	3.22
Iran	702	758	-2.97	0.89	6.2	6.2	-4.42	0.28
Japan	2 662	2 613	0.88	-0.27	21.7	22.4	0.82	0.28
Kazakhstan	285	329	3.70	1.10	7.9	9.1	-0.21	1.10
Korea	791	851	2.86	0.30	15.5	16.7	2.58	0.33
Malaysia	874	1 024	3.17	1.18	19.0	20.9	2.67	0.57
Pakistan	938	1 462	5.09	3.41	3.6	4.9	3.26	2.16
Philippines	654	943	4.95	3.42	5.0	6.7	3.43	2.73
Saudi Arabia	360	431	6.15	1.25	9.3	9.9	9.15	0.23
Thailand	1 113	1 249	0.22	0.92	12.0	13.8	-0.68	1.17
Türkiye	1 281	1 405	3.66	0.57	8.8	9.5	1.46	0.43
Viet Nam	410	798	0.12	5.65	3.6	7.1	-1.94	5.61
OCEANIA	348	435	2.35	1.85	8.2	9.1	0.88	0.71
Australia	259	325	1.99	1.87	10.3	11.5	0.64	0.88
New Zealand	69	86	2.89	1.90	14.1	16.6	2.28	1.22
DEVELOPED COUNTRIES	22 673	24 964	1.66	0.91	14.9	16.0	1.03	0.59
DEVELOPING COUNTRIES	67 840	80 845	3.54	1.47	10.0	10.7	2.11	0.52
LEAST DEVELOPED COUNTRIES (LDC)	1 988	2 880	4.03	3.33	1.9	2.3	1.50	1.62
OECD³	23 308	25 842	2.09	0.93	16.0	17.0	1.41	0.53
BRICS	45 948	51 956	2.75	1.02	13.8	14.9	1.94	0.59

Note: Calendar year. Average 2019-21est: Data for 2021 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 (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.48. 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	
	2021	2022	2021	2022	2021	2022	2021	2022
OECD								
Australia ¹	1.1	..	10.0	..	12.8	12.8	1.3	..
Austria	0.8	5.0	-1.1	4.9	12.0	12.0	-0.1	0.6
Belgium	0.3	7.6	1.2	2.4	17.4	17.4	0.2	0.4
Canada	1.0	5.1	0.1	6.5	11.5	11.5	0.0	0.7
Chile	3.1	7.7	7.8	6.0	18.9	18.9	1.5	1.1
Colombia	1.6	6.9	5.5	19.9	34.7	34.7	-0.1	1.3
Czech Republic	2.2	9.9	0.6	5.4	17.0	17.0	0.9	3.4
Denmark	0.6	4.3	0.3	4.0	11.5	11.5	0.1	0.6
Estonia	0.2	11.3	0.1	9.3	21.7	21.7	0.1	0.9
Finland	0.9	4.4	0.4	3.2	13.4	13.4	0.0	1.2
France	0.6	2.9	1.0	1.7	14.7	14.7	0.1	0.5
Germany	1.0	4.9	1.9	4.9	10.4	10.4	0.1	0.2
Greece	-2.0	6.2	-0.4	5.2	17.1	17.1	0.3	0.8
Hungary	2.7	7.9	3.4	10.1	19.6	19.6	-0.1	1.0
Iceland	4.3	5.7	6.7	3.5	14.9	14.9	0.5	1.5
Ireland	-0.2	5.0	-2.1	2.1	11.7	11.7	0.8	0.4
Israel	-0.4	3.1	-0.1	4.2	14.3	14.3	-0.3	0.3
Italy	0.4	4.8	0.7	3.6	16.3	16.3	0.0	0.7
Japan	-0.7	0.5	-0.1	2.3	19.0	19.0	0.1	0.7
Korea	0.9	3.6	6.4	5.5	14.4	14.4	0.0	0.3
Luxembourg	1.9	3.6	1.2	2.8	11.1	11.1	0.7	0.6
Mexico	3.5	7.1	5.1	11.9	18.9	18.9	0.2	0.5
Netherlands	1.6	6.4	0.5	4.4	11.3	11.3	0.6	1.3
New Zealand ¹	1.5	..	0.9	..	17.4	17.4	0.1	..
Norway	2.5	3.2	0.7	-1.6	13.3	13.3	0.1	-0.2
Poland	2.6	8.7	0.8	9.4	24.1	24.1	0.2	-0.4
Portugal	0.3	3.3	1.0	3.7	18.1	18.1	0.1	1.7
Slovak Republic	0.7	8.4	-0.5	8.1	18.4	18.4	0.2	0.7
Slovenia	-0.7	5.8	0.1	4.6	17.0	17.0	-0.1	1.4
Spain	0.5	6.1	1.7	4.8	18.2	18.2	0.0	0.8
Sweden	1.6	3.7	1.9	1.9	13.9	13.9	0.2	0.7
Switzerland	-0.5	1.6	-0.3	-1.5	10.8	10.8	0.2	0.2
Türkiye	15.0	48.7	18.1	55.6	26.8	26.8	-0.1	-0.4
United Kingdom	0.9	4.9	-0.7	4.4	11.8	11.8	2.1	6.6
United States	1.4	7.5	3.7	7.3	7.8	7.8	-0.1	0.3
OECD Total ²	1.6	7.2	3.1	7.5	..	..	..	..
Enhanced Engagement								
Brazil	4.6	10.4	16.2	8.0	22.5	22.5	1.2	1.3
China	-0.3	0.9	1.4	-3.8	33.6	33.6	5.4	2.7
India	3.2	5.8	1.9	..	35.4	35.4	1.1	2.7
Indonesia	1.6	2.2	2.8	3.5	19.6	19.6	0.6	0.7
Russia	5.2	8.7	8.0	12.7	32.8	32.8	2.6	4.2
South Africa	3.3	5.7	5.3	5.7	18.3	18.3	1.0	1.0

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Table C.48. 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	
	2021	2022	2021	2022	2021	2022	2021	2022
Non OECD								
Algeria	4.2	9.0	4.0	13.3	43.8	43.8	0.6	-1.7
Bangladesh	5.0	5.9	5.2	5.6	28.6	28.6	1.1	3.8
Bolivia	1.2	0.7	1.2	0.5	27.6	27.6	1.4	1.5
Botswana	2.3	10.6	0.5	7.0	23.7	23.7	0.3	0.1
Bulgaria	-0.6	4.1	-0.4	3.7	37.2	37.2	0.2	2.6
Costa Rica	1.0	3.5	3.8	3.2	21.4	21.4	0.8	0.7
Dominican Republic	6.2	8.5	8.9	9.3	29.2	29.2	2.6	2.7
Ecuador	-1.0	2.6	1.0	0.5	23.0	23.0	0.2	0.1
Egypt	4.8	7.3	-0.5	12.5	26.3	26.3	-0.1	3.3
El Salvador	-0.7	6.5	0.1	4.5	26.0	26.0	0.0	1.2
Ethiopia	19.2	34.5	23.2	39.9	57.0	57.0	13.2	22.7
Ghana	9.9	13.9	12.8	13.7	37.0	37.0	4.7	5.1
Guatemala	5.2	2.9	9.2	3.1	28.6	28.6	2.6	0.9
Haiti	18.7	24.0	22.5	25.0	50.4	50.4	11.3	12.6
Honduras	4.2	6.2	3.7	7.5	31.8	31.8	1.2	2.4
Iraq	0.9	5.3	-3.1	8.4	35.0	35.0	-1.1	2.9
Jordan	-0.3	2.5	-0.8	4.0	35.2	35.2	-0.3	1.4
Kenya	5.7	5.4	7.4	8.9	36.0	36.0	2.6	3.2
Madagascar	5.0	..	5.7	..	60.0	60.0	3.4	..
Malawi	7.7	12.1	9.7	14.2	50.0	50.0	4.9	7.1
Malaysia	-0.2	2.3	1.5	3.6	56.3	56.3	0.8	2.0
Moldavia	0.2	16.6	1.3	21.1	60.0	60.0	0.8	12.6
Morocco	0.0	4.3	-0.8	4.2	40.4	40.4	-0.3	1.7
New Caledonia	-0.7	2.3	4.4	..	21.0	21.0	0.9	3.3
Nicaragua	4.1	7.7	5.9	10.3	26.1	26.1	1.5	2.7
Niger	..	..	..	..	40.0	40.0	..	..
Nigeria	16.5	15.6	20.6	17.1	51.8	51.8	10.7	8.9
Pakistan	5.7	13.0	6.7	12.5	37.5	37.5	2.5	4.7
Panama	-1.1	3.0	1.0	2.2	33.6	33.6	0.3	0.7
Paraguay	2.6	7.9	5.4	5.8	39.1	39.1	2.1	2.3
Peru	2.9	5.7	3.7	8.0	25.0	25.0	0.9	2.0
Philippines	2.2	3.0	5.4	6.4	39.0	39.0	2.1	2.5
Romania	3.0	8.4	2.9	7.2	37.4	37.4	1.1	2.7
Rwanda	2.8	1.3	2.0	-2.8	39.0	39.0	0.8	-1.1
Senegal	0.9	5.5	0.6	9.1	53.4	53.4	0.3	4.9
Singapore	0.2	2.6	1.5	4.0	21.7	21.7	0.3	0.9
Sri Lanka	3.3	14.2	7.9	24.4	41.0	41.0	3.2	10.0
Chinese Taipei	-0.2	2.8	1.2	3.8	23.7	23.7	0.3	0.9
Tanzania	3.5	4.0	2.8	6.3	38.5	38.5	1.1	2.4
Thailand	-0.4	3.2	0.6	7.6	33.0	33.0	0.2	2.5
Tunisia	4.9	6.7	4.9	7.6	28.7	28.7	1.4	2.2
Uganda	3.7	2.7	-1.2	5.3	27.2	27.2	-0.3	1.4
Zambia	21.5	15.1	25.6	16.9	52.5	52.5	13.4	8.9

.. Not available

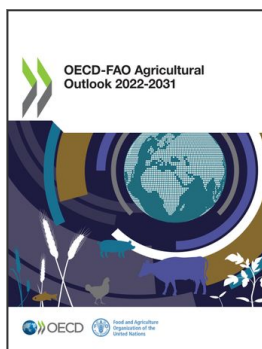
1. No data available for January 2022 in Australia and New Zealand.

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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