

Annex C. Statistical annex

ANNEX C

Table C.1. World cereal projections

Marketing year

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
WHEAT												
World												
Production	Mt	752.5	764.9	774.2	782.5	791.6	799.9	807.5	815.4	823.0	830.8	838.5
Area	Mha	216.4	217.0	217.6	217.5	217.6	217.7	217.7	217.7	217.7	217.6	217.6
Yield	t/ha	3.48	3.52	3.56	3.60	3.64	3.67	3.71	3.75	3.78	3.82	3.85
Consumption	Mt	747.4	761.0	770.7	780.0	787.6	795.3	802.9	810.8	818.4	826.1	833.8
Feed use	Mt	149.4	152.9	154.0	155.9	157.6	159.5	161.4	163.3	165.0	167.0	168.9
Food use	Mt	511.5	521.2	527.2	532.4	537.1	541.2	545.7	550.1	554.5	558.6	562.6
Biofuel use	Mt	9.2	9.0	8.9	8.9	8.9	9.0	9.1	9.3	9.5	9.7	9.8
Other use	Mt	77.4	77.9	80.6	82.8	83.9	85.7	86.6	88.0	89.4	90.9	92.5
Exports	Mt	173.1	184.2	188.9	192.4	196.1	199.1	201.8	204.5	207.1	209.8	212.5
Closing stocks	Mt	270.1	274.4	277.9	280.3	284.4	288.9	293.6	298.2	302.7	307.4	312.0
Price ¹	USD/t	225.4	217.0	218.8	222.4	227.9	232.1	236.4	240.7	244.8	249.1	253.4
Developed countries												
Production	Mt	388.6	402.1	406.1	410.2	414.9	419.2	423.2	427.1	430.7	434.4	438.1
Consumption	Mt	273.8	272.3	271.5	272.4	273.7	275.1	276.4	278.0	279.4	280.8	282.3
Net trade	Mt	118.4	129.5	134.1	137.5	140.9	143.5	145.8	148.2	150.5	152.7	155.0
Closing stocks	Mt	74.8	70.7	71.1	71.4	71.6	72.2	73.1	74.1	74.9	75.8	76.6
Developing countries												
Production	Mt	364.0	362.8	368.1	372.3	376.7	380.7	384.4	388.3	392.3	396.3	400.4
Consumption	Mt	473.7	488.7	499.1	507.6	513.9	520.2	526.5	532.8	539.0	545.3	551.5
Net trade	Mt	-118.2	-129.5	-134.1	-137.5	-140.9	-143.5	-145.8	-148.2	-150.5	-152.7	-155.0
Closing stocks	Mt	195.3	203.7	206.8	209.0	212.8	216.7	220.4	224.1	227.8	231.6	235.4
OECD²												
Production	Mt	275.9	285.6	287.1	288.5	290.3	292.3	294.4	296.6	298.6	300.6	302.7
Consumption	Mt	225.5	224.3	224.2	224.8	225.7	226.5	227.4	228.6	229.7	230.7	231.8
Net trade	Mt	52.1	60.8	61.9	63.0	64.2	65.2	66.2	67.2	68.2	69.2	70.2
Closing stocks	Mt	63.4	60.8	61.7	62.4	62.7	63.2	64.1	64.8	65.5	66.2	66.8
MAIZE												
World												
Production	Mt	1 122.1	1 160.1	1 173.1	1 187.3	1 205.3	1 223.4	1 242.6	1 260.4	1 278.6	1 296.6	1 315.2
Area	Mha	188.9	191.0	191.5	192.2	193.0	193.8	194.6	195.3	196.1	196.9	197.6
Yield	t/ha	5.94	6.07	6.13	6.18	6.24	6.31	6.39	6.45	6.52	6.59	6.65
Consumption	Mt	1 141.5	1 172.6	1 193.2	1 204.6	1 222.8	1 237.4	1 252.6	1 266.5	1 282.5	1 297.7	1 313.2
Feed use	Mt	675.1	684.1	694.7	706.6	720.5	733.0	746.0	756.1	768.2	779.6	791.3
Food use	Mt	141.8	145.9	147.8	149.9	151.9	154.0	156.1	158.1	160.2	162.3	164.4
Biofuel use	Mt	181.4	186.0	187.2	187.7	188.0	188.3	188.9	189.0	189.4	189.7	190.0
Other use	Mt	97.6	111.2	117.6	114.3	115.8	115.1	114.1	115.2	116.1	117.1	118.1
Exports	Mt	158.5	163.2	167.1	170.5	174.4	177.8	181.1	184.3	187.5	190.9	194.3
Closing stocks	Mt	358.4	315.5	295.4	278.1	260.7	246.7	236.7	230.6	226.7	225.6	227.6
Price ³	USD/t	165.2	168.1	171.3	174.5	178.2	181.1	184.3	187.7	190.8	194.1	197.6
Developed countries												
Production	Mt	511.4	524.1	528.3	533.0	537.9	542.9	547.6	552.2	556.9	561.6	566.4
Consumption	Mt	464.0	469.4	473.1	476.0	479.9	483.2	486.5	489.6	492.6	495.7	498.8
Net trade	Mt	49.5	53.3	53.7	55.3	57.3	59.0	60.6	62.2	63.9	65.5	67.3
Closing stocks	Mt	90.2	86.1	87.6	89.4	89.9	90.5	91.0	91.5	91.9	92.3	92.6
Developing countries												
Production	Mt	610.7	636.0	644.9	654.2	667.5	680.6	695.1	708.2	721.6	735.0	748.8
Consumption	Mt	677.6	703.2	720.1	728.6	742.8	754.2	766.2	776.9	789.9	802.0	814.4
Net trade	Mt	-51.2	-53.3	-53.7	-55.3	-57.3	-59.0	-60.6	-62.2	-63.9	-65.5	-67.3
Closing stocks	Mt	268.1	229.3	207.8	188.8	170.7	156.2	145.7	139.2	134.8	133.3	134.9
OECD²												
Production	Mt	477.8	486.9	490.8	494.5	498.2	502.2	505.8	509.3	512.9	516.4	520.1
Consumption	Mt	496.8	504.0	508.2	511.6	516.1	519.8	523.5	527.1	530.6	534.2	537.8
Net trade	Mt	-17.3	-18.2	-19.2	-19.1	-18.5	-18.3	-18.3	-18.2	-18.2	-18.2	-18.0
Closing stocks	Mt	90.9	85.0	86.9	88.9	89.5	90.1	90.7	91.1	91.5	91.9	92.3

ANNEX C

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

Marketing year

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
OTHER COARSE GRAINS												
World												
Production	Mt	289.8	296.5	299.2	301.6	303.4	306.2	308.8	311.4	313.9	316.4	318.9
Area	Mha	153.7	154.3	154.2	154.0	153.8	153.7	153.6	153.5	153.4	153.3	153.2
Yield	t/ha	1.89	1.92	1.94	1.96	1.97	1.99	2.01	2.03	2.05	2.06	2.08
Consumption	Mt	282.6	290.3	293.4	295.2	298.3	299.9	302.2	304.9	307.0	309.7	312.4
Feed use	Mt	144.9	146.1	148.2	150.4	151.8	153.0	154.1	155.2	156.4	157.6	158.9
Food use	Mt	78.9	80.0	81.1	82.3	83.2	84.0	84.9	85.9	86.9	87.9	89.0
Biofuel use	Mt	9.1	9.0	9.0	9.0	9.0	9.0	9.1	9.1	9.1	9.1	9.2
Other use	Mt	49.6	55.1	54.9	53.5	54.3	53.9	54.2	54.7	54.6	55.1	55.4
Exports	Mt	42.0	43.9	44.3	44.6	45.0	45.5	46.0	46.6	47.2	47.8	48.4
Closing stocks	Mt	50.4	55.6	55.5	56.1	55.3	55.8	56.5	57.2	58.2	59.0	59.6
Price ⁴	USD/t	196.9	188.6	193.2	197.3	204.6	209.7	214.2	218.0	221.7	225.7	229.6
Developed countries												
Production	Mt	173.3	178.8	179.6	180.5	180.9	181.9	182.8	183.7	184.4	185.2	186.0
Consumption	Mt	142.5	146.6	147.3	146.8	148.0	147.6	147.7	148.1	148.0	148.3	148.6
Net trade	Mt	30.3	32.0	32.5	32.9	33.5	34.1	34.7	35.4	36.0	36.6	37.3
Closing stocks	Mt	24.9	28.8	28.6	29.4	28.8	29.0	29.4	29.5	29.9	30.2	30.3
Developing countries												
Production	Mt	116.5	117.7	119.6	121.1	122.5	124.3	126.0	127.7	129.4	131.2	132.9
Consumption	Mt	140.1	143.7	146.1	148.4	150.3	152.3	154.5	156.7	159.0	161.4	163.8
Net trade	Mt	-24.4	-26.2	-26.7	-27.0	-27.6	-28.3	-28.8	-29.6	-30.2	-30.8	-31.4
Closing stocks	Mt	25.4	26.7	27.0	26.7	26.5	26.7	27.1	27.7	28.3	28.8	29.3
OECD²												
Production	Mt	140.1	145.5	145.8	146.4	146.5	147.2	147.8	148.3	148.7	149.1	149.6
Consumption	Mt	121.9	127.4	127.8	127.2	128.4	128.1	128.3	128.8	128.7	129.1	129.4
Net trade	Mt	17.9	18.3	18.4	18.3	18.7	19.0	19.2	19.5	19.7	19.9	20.1
Closing stocks	Mt	17.7	20.6	20.2	21.0	20.5	20.7	21.0	21.0	21.3	21.5	21.5
RICE												
World												
Production	Mt	515.0	532.5	535.7	540.1	545.1	550.7	557.0	563.0	569.3	575.5	581.8
Area	Mha	164.9	166.2	165.9	165.7	165.6	165.6	165.6	165.6	165.6	165.6	165.6
Yield	t/ha	3.12	3.20	3.23	3.26	3.29	3.33	3.36	3.40	3.44	3.47	3.51
Consumption	Mt	511.7	529.5	535.7	541.2	545.9	551.5	557.1	562.7	568.6	574.6	580.8
Feed use	Mt	17.8	17.5	17.7	18.0	18.2	18.5	18.7	18.9	19.1	19.4	19.6
Food use	Mt	414.2	428.5	432.6	436.0	439.1	443.5	447.8	452.0	456.4	460.7	465.1
Exports	Mt	47.2	49.0	50.5	51.5	52.7	54.2	55.8	57.2	58.8	60.4	62.1
Closing stocks	Mt	178.2	181.9	181.6	180.4	179.4	178.3	178.0	178.1	178.6	179.3	180.1
Price ⁵	USD/t	428.7	435.3	431.8	434.1	441.3	449.4	455.7	462.2	467.5	472.3	476.2
Developed countries												
Production	Mt	17.6	18.7	18.2	18.3	18.4	18.4	18.4	18.4	18.5	18.5	18.7
Consumption	Mt	20.4	20.6	20.5	20.4	20.5	20.5	20.5	20.5	20.5	20.5	20.5
Net trade	Mt	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1
Closing stocks	Mt	4.2	3.7	3.4	3.4	3.4	3.4	3.5	3.5	3.6	3.8	4.1
Developing countries												
Production	Mt	497.4	513.8	517.4	521.8	526.7	532.3	538.5	544.6	550.8	557.0	563.0
Consumption	Mt	491.3	508.9	515.1	520.7	525.4	531.0	536.6	542.2	548.1	554.1	560.2
Net trade	Mt	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3
Closing stocks	Mt	173.9	178.2	178.2	177.0	176.0	174.9	174.5	174.6	175.0	175.5	176.0
OECD²												
Production	Mt	22.4	23.5	23.0	23.1	23.1	23.1	23.2	23.1	23.1	23.1	23.3
Consumption	Mt	25.7	25.8	25.7	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.7
Net trade	Mt	-2.4	-2.4	-2.4	-2.5	-2.5	-2.5	-2.6	-2.6	-2.6	-2.6	-2.7
Closing stocks	Mt	5.7	5.2	5.0	5.0	5.0	5.0	5.1	5.1	5.2	5.4	5.7

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
3. No.2 yellow corn, United States FOB Gulf Ports (September/August).
4. Feed barley, Europe, FOB Rouen (July/June).
5. Milled 100%, grade b, nominal price quote, FOB Bangkok (January/December).

Source: OECD/FAO (2020), "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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
SOYBEAN												
World												
Production	Mt	347.3	364.1	367.1	372.2	377.2	382.0	386.7	391.9	396.7	401.5	406.2
Area	Mha	124.2	126.2	126.2	126.9	127.5	128.1	128.6	129.2	129.8	130.3	130.7
Yield	t/ha	2.80	2.88	2.91	2.93	2.96	2.98	3.01	3.03	3.06	3.08	3.11
Consumption	Mt	348.3	358.6	367.5	372.3	377.3	382.1	386.7	391.6	396.5	401.3	406.1
Crush	Mt	313.0	323.4	332.1	336.8	341.5	346.1	350.4	355.1	359.7	364.3	368.8
Closing stocks	Mt	43.3	45.5	45.1	44.9	44.9	44.7	44.7	45.0	45.3	45.5	45.7
Price ¹	USD/t	384.4	394.6	404.4	412.7	420.6	429.0	439.7	447.7	455.9	465.0	474.3
Developed countries												
Production	Mt	132.5	134.3	134.1	135.5	136.8	138.1	139.4	140.8	142.2	143.5	144.9
Consumption	Mt	94.7	96.6	97.1	97.6	98.2	98.6	99.0	99.4	99.8	100.1	100.5
Crush	Mt	85.9	87.6	88.1	88.5	89.0	89.5	89.7	90.1	90.4	90.8	91.1
Closing stocks	Mt	21.4	22.0	21.5	21.1	20.8	20.4	20.3	20.4	20.5	20.5	20.5
Developing countries												
Production	Mt	214.8	229.8	233.0	236.7	240.4	243.9	247.3	251.1	254.6	258.0	261.3
Consumption	Mt	253.6	262.0	270.4	274.8	279.1	283.5	287.7	292.2	296.7	301.2	305.6
Crush	Mt	227.1	235.9	244.1	248.3	252.4	256.6	260.6	265.0	269.2	273.5	277.7
Closing stocks	Mt	21.9	23.5	23.6	23.8	24.1	24.3	24.4	24.6	24.9	25.1	25.2
OECD²												
Production	Mt	123.3	124.8	124.4	125.7	126.8	127.9	129.0	130.2	131.4	132.5	133.7
Consumption	Mt	96.1	97.8	98.4	98.9	99.6	100.1	100.5	100.9	101.4	101.8	102.2
Crush	Mt	87.7	89.2	89.8	90.3	90.9	91.4	91.7	92.1	92.5	92.9	93.3
Closing stocks	Mt	21.0	21.8	21.2	20.9	20.5	20.2	20.1	20.1	20.2	20.2	20.1
OTHER OILSEEDS												
World												
Production	Mt	153.9	156.5	158.4	160.8	163.0	164.9	166.9	168.9	170.9	172.9	174.9
Area	Mha	88.8	88.8	89.0	89.5	89.8	90.0	90.2	90.4	90.6	90.8	91.0
Yield	t/ha	1.73	1.76	1.78	1.80	1.82	1.83	1.85	1.87	1.89	1.90	1.92
Consumption	Mt	153.8	156.6	158.7	160.8	162.9	164.8	166.8	168.8	170.9	172.9	174.9
Crush	Mt	133.0	135.3	137.1	139.1	141.0	142.8	144.6	146.3	148.2	149.9	151.7
Closing stocks	Mt	10.3	9.4	9.1	9.2	9.3	9.3	9.3	9.4	9.4	9.4	9.5
Price ³	USD/t	426.6	431.2	448.4	457.0	461.6	471.0	479.6	487.6	494.6	502.0	509.8
Developed countries												
Production	Mt	93.3	93.9	94.9	96.3	97.4	98.4	99.3	100.3	101.4	102.3	103.3
Consumption	Mt	84.7	85.5	86.3	87.3	88.1	88.8	89.5	90.2	90.9	91.6	92.3
Crush	Mt	77.7	78.4	79.1	80.1	80.9	81.6	82.3	82.9	83.5	84.2	84.8
Closing stocks	Mt	8.3	7.9	7.6	7.6	7.7	7.7	7.7	7.7	7.8	7.8	7.8
Developing countries												
Production	Mt	60.6	62.6	63.5	64.6	65.6	66.5	67.5	68.6	69.6	70.6	71.6
Consumption	Mt	69.1	71.1	72.3	73.5	74.7	76.0	77.3	78.6	79.9	81.3	82.6
Crush	Mt	55.3	56.9	58.0	59.0	60.0	61.2	62.3	63.5	64.6	65.8	66.9
Closing stocks	Mt	2.0	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.7	1.7
OECD²												
Production	Mt	59.7	58.1	58.5	59.2	59.7	60.1	60.4	60.8	61.2	61.5	61.9
Consumption	Mt	57.8	56.5	56.8	57.2	57.5	57.7	57.9	58.1	58.2	58.4	58.6
Crush	Mt	52.3	51.1	51.4	51.7	52.1	52.3	52.5	52.6	52.7	52.9	53.0
Closing stocks	Mt	7.2	6.4	6.1	6.1	6.2	6.2	6.2	6.1	6.2	6.2	6.2
PROTEIN MEALS												
World												
Production	Mt	342.7	354.0	362.2	367.5	372.8	377.8	382.6	387.7	392.8	397.9	402.9
Consumption	Mt	343.1	354.1	362.2	367.4	372.7	377.7	382.5	387.6	392.7	397.8	402.9
Closing stocks	Mt	14.9	13.4	13.4	13.4	13.5	13.6	13.7	13.7	13.8	13.9	14.0
Price ⁴	USD/t	323.6	315.3	319.3	326.5	334.3	341.2	349.3	357.4	364.7	373.1	381.7
Developed countries												
Production	Mt	110.7	112.5	113.4	114.4	115.5	116.2	116.8	117.4	118.1	118.7	119.4
Consumption	Mt	124.0	125.3	126.3	126.9	127.8	128.2	128.6	129.0	129.5	130.0	130.5
Closing stocks	Mt	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
Developing countries												
Production	Mt	231.9	241.5	248.8	253.1	257.3	261.6	265.8	270.3	274.7	279.2	283.6
Consumption	Mt	219.1	228.8	235.9	240.5	244.9	249.4	253.9	258.6	263.2	267.8	272.4
Closing stocks	Mt	13.0	11.6	11.6	11.6	11.7	11.8	11.8	11.9	12.0	12.0	12.1
OECD²												
Production	Mt	102.4	103.2	104.0	104.8	105.7	106.3	106.8	107.3	107.8	108.3	108.8
Consumption	Mt	130.9	132.1	133.3	134.1	135.1	135.7	136.3	136.9	137.6	138.2	138.8
Closing stocks	Mt	1.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4

ANNEX C

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

Marketing year

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
VEGETABLE OILS												
World												
Production	Mt	209.5	217.1	220.8	224.1	227.5	230.6	233.8	237.0	240.2	243.4	246.7
of which palm oil	Mt	76.8	81.1	82.1	83.4	84.7	85.9	87.1	88.4	89.7	90.9	92.2
Consumption	Mt	209.8	217.7	220.6	223.6	227.2	230.3	233.5	236.7	239.9	243.2	246.4
Food	Mt	138.8	142.3	144.9	147.3	150.3	152.8	155.5	158.2	161.1	164.1	167.1
Biofuel	Mt	29.2	32.2	31.8	31.7	31.7	31.6	31.4	31.3	30.9	30.5	30.1
Exports	Mt	84.8	87.4	88.5	89.5	90.8	92.0	93.2	94.3	95.5	96.7	97.9
Closing stocks	Mt	21.6	19.4	19.7	20.2	20.6	20.9	21.1	21.3	21.6	21.9	22.2
Price ⁵	USD/t	724.0	775.7	800.0	818.9	828.8	845.5	864.6	879.6	893.4	907.2	921.8
Developed countries												
Production	Mt	51.6	51.8	52.3	52.8	53.4	53.8	54.1	54.5	54.9	55.2	55.6
Consumption	Mt	56.7	55.9	56.0	56.0	56.2	56.2	56.3	56.2	56.1	56.0	55.9
Closing stocks	Mt	3.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Developing countries												
Production	Mt	157.9	165.3	168.5	171.3	174.2	176.8	179.6	182.5	185.3	188.2	191.1
Consumption	Mt	153.1	161.7	164.6	167.6	170.9	174.1	177.2	180.5	183.8	187.2	190.5
Closing stocks	Mt	17.7	15.8	16.1	16.6	17.0	17.2	17.4	17.7	18.0	18.3	18.5
OECD²												
Production	Mt	43.1	42.8	43.2	43.6	44.0	44.2	44.5	44.7	44.9	45.2	45.4
Consumption	Mt	57.9	57.2	57.3	57.3	57.6	57.6	57.7	57.7	57.6	57.5	57.5
Closing stocks	Mt	3.6	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4

Note: Average 2017-19est: Data for 2019 are estimated. Prices are in nominal terms.

1. Soybean, U.S., CIF Rotterdam (October/September).
2. Excludes Iceland 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 (2020), "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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
WORLD												
SUGARBEET												
Production	Mt	296.7	290.9	295.6	298.3	301.1	303.7	306.4	309.0	311.3	313.3	315.1
Area	Mha	5.0	4.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Yield	t/ha	59.46	59.12	59.60	60.01	60.41	60.85	61.29	61.72	62.13	62.53	62.95
Biofuel use	Mt	12.8	13.5	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
SUGARCANE												
Production	Mt	1 713.0	1 736.8	1 778.2	1 803.6	1 822.0	1 839.0	1 855.1	1 870.6	1 888.5	1 907.1	1 929.7
Area	Mha	24.4	24.5	24.9	25.0	25.1	25.1	25.1	25.2	25.3	25.3	25.5
Yield	t/ha	70.12	70.83	71.51	72.13	72.72	73.28	73.80	74.29	74.79	75.26	75.72
Biofuel use	Mt	400.1	427.4	432.7	438.0	443.0	450.0	454.6	461.1	466.7	472.9	478.6
SUGAR												
Production	Mt tq	175.6	176.2	182.0	185.1	187.2	189.6	192.2	194.6	197.1	199.9	202.8
Consumption	Mt tq	171.1	175.0	177.5	180.2	182.8	185.3	187.9	190.6	193.3	195.9	198.6
Closing stocks	Mt tq	83.3	76.8	78.4	80.2	81.7	83.0	84.4	85.4	86.3	87.3	88.6
Price, raw sugar ¹	USD/t	286.5	318.9	314.4	323.0	330.7	337.1	344.1	353.9	364.7	375.0	385.7
Price, white sugar ²	USD/t	357.0	399.0	394.4	403.7	409.0	416.6	423.1	432.1	444.2	456.2	468.9
Price, HFCS ³	USD/t	821.7	616.6	519.8	535.2	541.9	550.0	557.3	571.5	588.6	603.9	620.3
DEVELOPED COUNTRIES												
SUGARBEET												
Production	Mt	239.9	231.7	235.1	236.5	238.0	239.2	240.6	241.8	242.6	243.1	243.4
SUGARCANE												
Production	Mt	81.1	80.2	80.6	81.0	81.5	81.8	82.2	82.4	82.7	83.1	83.6
SUGAR												
Production	Mt tq	43.7	41.7	42.2	42.5	42.9	43.2	43.6	43.9	44.2	44.5	44.7
Consumption	Mt tq	46.2	45.7	45.8	45.8	45.8	45.8	45.8	45.8	45.7	45.7	45.6
Closing stocks	Mt tq	14.4	13.3	13.3	13.6	13.8	13.9	13.9	13.9	13.8	13.8	13.8
HFCS												
Production	Mt dw	8.9	8.9	9.0	9.0	9.0	9.1	9.1	9.2	9.2	9.3	9.3
Consumption	Mt dw	7.8	7.9	7.9	7.9	7.9	7.8	7.8	7.8	7.8	7.8	7.8
DEVELOPING COUNTRIES												
SUGARBEET												
Production	Mt	56.8	59.3	60.5	61.8	63.1	64.5	65.8	67.3	68.7	70.2	71.7
SUGARCANE												
Production	Mt	1 631.9	1 656.6	1 697.5	1 722.6	1 740.6	1 757.2	1 772.9	1 788.1	1 805.8	1 824.0	1 846.1
SUGAR												
Production	Mt tq	131.9	134.5	139.8	142.6	144.3	146.4	148.6	150.7	152.9	155.5	158.1
Consumption	Mt tq	124.9	129.3	131.7	134.3	136.9	139.5	142.1	144.8	147.5	150.2	152.9
Closing stocks	Mt tq	68.9	63.5	65.0	66.7	67.9	69.2	70.5	71.5	72.5	73.6	74.8
HFCS												
Production	Mt dw	4.5	4.9	5.0	5.1	5.2	5.3	5.4	5.6	5.7	5.8	5.9
Consumption	Mt dw	5.6	5.9	6.1	6.2	6.4	6.6	6.7	6.9	7.1	7.3	7.5
OECD⁴												
SUGARBEET												
Production	Mt	187.0	181.9	184.3	185.1	186.0	186.8	187.7	188.5	188.9	188.9	188.7
SUGARCANE												
Production	Mt	153.3	152.6	153.6	154.6	155.4	156.1	156.6	156.9	157.2	157.7	158.2
SUGAR												
Production	Mt tq	42.7	41.1	41.5	41.8	42.1	42.4	42.7	42.9	43.1	43.3	43.4
Consumption	Mt tq	44.9	44.5	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
Closing stocks	Mt tq	14.0	13.1	13.3	13.6	13.8	13.9	14.0	14.0	14.0	14.0	14.1
HFCS												
Production	Mt dw	9.9	9.8	9.9	9.9	9.9	10.0	10.0	10.1	10.1	10.2	10.3
Consumption	Mt dw	9.7	9.7	9.8	9.8	9.8	9.9	9.9	9.9	9.9	10.0	10.0

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 but includes all EU member countries.

Source: OECD/FAO (2020), "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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
WORLD												
BEEF AND VEAL												
Production	kt cwe	69 774	71 140	71 698	71 910	72 429	72 929	73 525	74 185	74 788	75 448	76 005
Consumption	kt cwe	69 479	70 882	71 451	71 637	72 149	72 660	73 243	73 906	74 507	75 170	75 728
PIGMEAT												
Production	kt cwe	116 595	106 526	109 006	112 829	116 274	119 869	123 466	125 300	126 114	126 797	127 526
Consumption	kt cwe	116 269	106 279	108 775	112 585	116 028	119 622	123 219	125 053	125 864	126 549	127 278
POULTRY MEAT												
Production	kt rtc	125 312	132 067	133 301	134 561	136 116	137 666	139 256	140 831	142 436	144 076	145 711
Consumption	kt rtc	124 419	131 230	132 426	133 696	135 255	136 809	138 402	139 983	141 591	143 235	144 874
SHEEP MEAT												
Production	kt cwe	15 047	15 429	15 649	15 874	16 096	16 317	16 542	16 702	16 861	17 027	17 194
Consumption	kt cwe	15 079	15 520	15 742	15 965	16 194	16 415	16 636	16 790	16 946	17 109	17 269
TOTAL MEAT												
Per capita consumption ¹	kg rwt	34.5	33.7	33.8	34.0	34.3	34.6	34.8	34.9	34.9	34.9	34.9
DEVELOPED COUNTRIES												
BEEF AND VEAL												
Production	kt cwe	30 642	30 796	30 820	30 582	30 688	30 773	30 953	31 200	31 417	31 680	31 828
Consumption	kt cwe	29 261	29 513	29 571	29 344	29 421	29 509	29 638	29 810	29 960	30 170	30 272
PIGMEAT												
Production	kt cwe	45 625	46 747	46 252	45 983	45 960	46 044	46 133	46 206	46 306	46 377	46 491
Consumption	kt cwe	41 185	41 239	41 363	41 417	41 491	41 647	41 777	41 891	41 969	42 042	42 133
POULTRY MEAT												
Production	kt rtc	51 103	53 172	53 554	53 940	54 320	54 663	55 043	55 418	55 802	56 213	56 620
Consumption	kt rtc	48 427	50 313	50 609	51 005	51 356	51 686	52 046	52 338	52 649	52 977	53 290
SHEEP MEAT												
Production	kt cwe	3 506	3 513	3 548	3 583	3 612	3 636	3 663	3 688	3 713	3 742	3 774
Consumption	kt cwe	2 734	2 716	2 734	2 750	2 771	2 788	2 802	2 816	2 829	2 846	2 863
TOTAL MEAT												
Per capita consumption ¹	kg rwt	68.6	69.5	69.6	69.6	69.7	69.9	70.1	70.3	70.5	70.7	70.9
DEVELOPING COUNTRIES												
BEEF AND VEAL												
Production	kt cwe	39 132	40 344	40 879	41 328	41 741	42 156	42 572	42 985	43 371	43 768	44 176
Consumption	kt cwe	40 218	41 369	41 881	42 292	42 727	43 150	43 605	44 096	44 547	45 000	45 456
PIGMEAT												
Production	kt cwe	70 971	59 778	62 754	66 846	70 314	73 825	77 332	79 095	79 807	80 420	81 036
Consumption	kt cwe	75 084	65 040	67 413	71 168	74 537	77 975	81 441	83 162	83 895	84 507	85 146
POULTRY MEAT												
Production	kt rtc	74 209	78 895	79 747	80 621	81 796	83 002	84 212	85 413	86 634	87 864	89 092
Consumption	kt rtc	75 992	80 917	81 817	82 691	83 899	85 123	86 356	87 645	88 942	90 258	91 584
SHEEP MEAT												
Production	kt cwe	11 541	11 916	12 101	12 291	12 484	12 680	12 879	13 014	13 149	13 284	13 421
Consumption	kt cwe	12 346	12 804	13 009	13 216	13 423	13 627	13 834	13 974	14 117	14 262	14 406
TOTAL MEAT												
Per capita consumption ¹	kg rwt	26.6	25.6	25.8	26.2	26.5	26.8	27.2	27.3	27.4	27.4	27.4
OECD²												
BEEF AND VEAL												
Production	kt cwe	29 556	29 820	29 850	29 596	29 698	29 795	29 978	30 230	30 439	30 697	30 837
Consumption	kt cwe	28 460	28 731	28 801	28 575	28 655	28 757	28 888	29 071	29 220	29 431	29 531
PIGMEAT												
Production	kt cwe	43 735	44 904	44 423	44 209	44 215	44 324	44 435	44 529	44 648	44 740	44 873
Consumption	kt cwe	40 561	40 853	40 994	41 083	41 186	41 374	41 536	41 682	41 790	41 896	42 017
POULTRY MEAT												
Production	kt rtc	51 191	53 321	53 667	54 054	54 448	54 827	55 245	55 661	56 088	56 540	56 989
Consumption	kt rtc	48 189	50 234	50 597	51 038	51 436	51 813	52 224	52 571	52 930	53 311	53 681
SHEEP MEAT												
Production	kt cwe	2 759	2 742	2 763	2 784	2 798	2 808	2 820	2 830	2 839	2 854	2 871
Consumption	kt cwe	2 042	2 010	2 017	2 022	2 032	2 037	2 040	2 043	2 045	2 051	2 056
TOTAL MEAT												
Per capita consumption ¹	kg rwt	69.3	70.3	70.3	70.3	70.5	70.6	70.9	71.0	71.2	71.4	71.6

Note: Calendar Year; except year ending 30 September for New Zealand in aggregates. Average 2017-19est: Data for 2019 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 but includes all EU member countries.

Source: OECD/FAO (2020), "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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
MILK												
World												
Production	kt pw	839 528	867 394	880 960	895 238	909 366	923 731	937 871	952 498	967 183	982 282	996 760
Inventory	000 hd	707 939	725 750	731 507	737 337	743 256	749 909	756 337	762 840	769 352	775 756	782 044
Yield	t/head	1.19	1.20	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.27
Developed countries												
Production	kt pw	401 312	406 072	408 634	411 441	414 121	416 699	418 934	421 512	424 050	426 922	429 208
Inventory	000 hd	78 741	78 710	78 612	78 507	78 381	78 279	78 182	78 086	77 993	77 903	77 810
Yield	t/head	5.10	5.16	5.20	5.24	5.28	5.32	5.36	5.40	5.44	5.48	5.52
Developing countries												
Production	kt pw	438 216	461 322	472 326	483 797	495 246	507 032	518 936	530 986	543 133	555 360	567 552
Inventory	000 hd	629 198	647 041	652 896	658 831	664 876	671 630	678 155	684 755	691 359	697 854	704 234
Yield	t/head	0.70	0.71	0.72	0.73	0.74	0.75	0.77	0.78	0.79	0.80	0.81
OECD¹												
Production	kt pw	366 080	369 940	372 324	374 977	377 613	380 155	382 328	384 837	387 317	390 134	392 376
Inventory	000 hd	81 755	83 146	83 208	83 349	83 596	83 892	84 147	84 376	84 619	84 870	85 118
Yield	t/head	4.48	4.45	4.47	4.50	4.52	4.53	4.54	4.56	4.58	4.60	4.61
FRESH DAIRY PRODUCTS												
World												
Consumption	kt pw	421 910	440 120	448 278	456 984	465 808	474 855	483 936	493 474	502 527	511 584	520 625
Developed countries												
Consumption	kt pw	132 662	133 454	133 860	134 337	134 865	135 401	135 938	136 483	137 026	137 523	138 058
Developing countries												
Consumption	kt pw	289 248	306 666	314 418	322 647	330 943	339 454	347 998	356 992	365 501	374 060	382 568
OECD¹												
Consumption	kt pw	104 822	104 308	104 590	104 941	105 368	105 816	106 265	106 726	107 202	107 647	108 152
BUTTER												
World												
Production	kt pw	11 310	11 722	11 968	12 173	12 363	12 560	12 763	12 964	13 170	13 377	13 584
Consumption	kt pw	11 254	11 763	11 966	12 170	12 360	12 556	12 759	12 961	13 166	13 374	13 581
Stock changes	kt pw	-4	-42	3	3	4	3	3	3	3	3	3
Price ²	USD/t	4 927	4 028	4 112	4 199	4 270	4 348	4 425	4 502	4 573	4 646	4 722
Developed countries												
Production	kt pw	4 736	4 754	4 827	4 866	4 899	4 929	4 960	4 988	5 015	5 044	5 070
Consumption	kt pw	4 173	4 259	4 266	4 282	4 294	4 304	4 315	4 324	4 333	4 344	4 354
Developing countries												
Production	kt pw	6 574	6 968	7 141	7 307	7 464	7 630	7 803	7 976	8 154	8 333	8 513
Consumption	kt pw	7 081	7 504	7 700	7 888	8 066	8 252	8 444	8 637	8 833	9 030	9 227
OECD¹												
Production	kt pw	4 624	4 693	4 777	4 827	4 870	4 911	4 952	4 990	5 026	5 063	5 098
Consumption	kt pw	4 099	4 236	4 259	4 291	4 316	4 339	4 363	4 385	4 408	4 431	4 454
Stock changes	kt pw	0	-42	3	3	4	3	3	3	3	3	3
CHEESE												
World												
Production	kt pw	23 579	24 139	24 428	24 705	24 984	25 287	25 584	25 889	26 196	26 517	26 829
Consumption	kt pw	23 566	24 138	24 427	24 705	24 984	25 286	25 583	25 889	26 195	26 517	26 828
Stock changes	kt pw	-65	1	1	0	1	0	1	1	1	1	1
Price ³	USD/t	3 805	3 784	3 868	3 955	4 042	4 132	4 220	4 311	4 398	4 489	4 582
Developed countries												
Production	kt pw	19 459	19 924	20 132	20 323	20 520	20 743	20 960	21 184	21 406	21 643	21 868
Consumption	kt pw	18 529	18 935	19 107	19 263	19 423	19 607	19 784	19 968	20 153	20 351	20 538
Developing countries												
Production	kt pw	4 121	4 215	4 296	4 382	4 465	4 543	4 623	4 705	4 790	4 875	4 961
Consumption	kt pw	5 036	5 203	5 320	5 442	5 561	5 680	5 800	5 920	6 042	6 166	6 290
OECD¹												
Production	kt pw	19 001	19 410	19 611	19 795	19 977	20 185	20 386	20 593	20 798	21 016	21 222
Consumption	kt pw	18 282	18 619	18 792	18 946	19 100	19 277	19 447	19 625	19 802	19 993	20 174
Stock changes	kt pw	-65	1	1	0	1	0	1	1	1	1	1

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand in aggregates. Average 2017-19est: Data for 2019 are estimated. Prices are in nominal terms.

1. Excludes Iceland 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 (2020), "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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
SKIM MILK POWDER												
World												
Production	kt pw	4 359	4 473	4 570	4 653	4 728	4 805	4 879	4 953	5 027	5 105	5 184
Consumption	kt pw	4 511	4 504	4 569	4 652	4 727	4 805	4 879	4 953	5 028	5 106	5 184
Stock changes	kt pw	-164	-30	1	1	1	0	0	0	0	0	0
Price ¹	USD/t	2 220	2 913	2 997	3 062	3 136	3 207	3 272	3 339	3 404	3 472	3 538
Developed countries												
Production	kt pw	3 799	3 890	3 970	4 044	4 109	4 176	4 241	4 306	4 372	4 441	4 511
Consumption	kt pw	1 920	1 842	1 840	1 851	1 860	1 867	1 871	1 874	1 877	1 883	1 888
Developing countries												
Production	kt pw	560	583	600	609	620	629	638	647	655	664	673
Consumption	kt pw	2 591	2 662	2 729	2 800	2 868	2 937	3 008	3 079	3 150	3 223	3 296
OECD²												
Production	kt pw	3 564	3 637	3 711	3 782	3 843	3 908	3 970	4 032	4 096	4 162	4 229
Consumption	kt pw	1 965	1 925	1 925	1 939	1 952	1 964	1 973	1 980	1 988	1 998	2 008
Stock changes	kt pw	-159	-30	1	1	1	0	0	0	0	0	0
WHOLE MILK POWDER												
World												
Production	kt pw	5 033	5 066	5 162	5 255	5 344	5 436	5 527	5 618	5 710	5 802	5 894
Consumption	kt pw	5 089	5 075	5 174	5 255	5 344	5 436	5 527	5 618	5 710	5 802	5 894
Stock changes	kt pw	18	-9	-12	0	0	0	0	0	0	0	0
Price ³	USD/t	3 078	3 243	3 302	3 385	3 459	3 534	3 606	3 679	3 750	3 824	3 898
Developed countries												
Production	kt pw	2 444	2 514	2 542	2 561	2 587	2 615	2 644	2 673	2 704	2 733	2 763
Consumption	kt pw	663	722	730	723	725	728	731	734	737	740	743
Developing countries												
Production	kt pw	2 589	2 552	2 620	2 694	2 757	2 821	2 883	2 944	3 006	3 069	3 131
Consumption	kt pw	4 427	4 353	4 444	4 532	4 619	4 708	4 796	4 884	4 973	5 062	5 151
OECD²												
Production	kt pw	2 630	2 705	2 738	2 763	2 791	2 822	2 854	2 886	2 919	2 951	2 984
Consumption	kt pw	893	945	957	956	962	970	977	984	991	998	1 006
Stock changes	kt pw	18	-9	-12	0	0	0	0	0	0	0	0
WHEY POWDER												
Price ⁴	USD/t	958	965	976	999	1 026	1 045	1 068	1 089	1 110	1 132	1 158
CASEIN												
Price ⁵	USD/t	6 062	6 462	6 579	6 713	6 847	6 982	7 116	7 251	7 387	7 524	7 662

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand in aggregates. Average 2017-19est: Data for 2019 are estimated. Prices are in nominal terms.

1. FOB export price, non-fat dry milk, 1.25% butterfat, Oceania.
2. Excludes Iceland 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 (2020), "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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
FISH¹												
World												
Production	kt	175 798	179 002	178 372	182 285	185 418	188 113	190 563	191 516	195 448	197 962	200 400
of which aquaculture	kt	81 910	85 964	87 691	89 955	92 343	94 655	96 860	99 037	101 007	103 078	105 205
Consumption	kt	176 248	180 497	179 717	183 480	186 463	189 008	191 308	192 111	195 893	198 257	200 545
of which for food	kt	155 109	160 016	160 492	163 355	166 389	168 930	171 289	173 106	175 756	178 119	180 416
of which for reduction	kt	16 902	16 404	15 220	16 201	16 222	16 297	16 310	15 367	16 571	16 643	16 686
Price												
Aquaculture ²	USD/t	3 022.3	3 041.0	3 194.8	3 328.8	3 420.7	3 567.4	3 634.4	3 684.9	3 629.6	3 660.5	3 708.5
Capture ³	USD/t	1 831.0	1 917.0	1 978.3	2 036.3	2 078.4	2 149.9	2 188.4	2 238.8	2 214.9	2 231.2	2 247.2
Product traded ⁴	USD/t	3 032.7	3 135.0	3 260.0	3 396.7	3 490.6	3 603.4	3 634.4	3 684.9	3 629.6	3 660.5	3 690.1
Developed countries												
Production	kt	30 101	30 262	30 245	30 423	30 741	30 889	30 978	31 121	31 249	31 349	31 410
of which aquaculture	kt	4 694	4 870	4 954	5 049	5 164	5 280	5 324	5 421	5 505	5 569	5 597
Consumption	kt	37 859	37 858	37 713	38 042	38 279	38 416	38 438	38 557	38 665	38 853	39 024
of which for food	kt	31 724	32 064	31 924	32 267	32 497	32 645	32 665	32 770	32 888	33 085	33 264
of which for reduction	kt	4 928	4 651	4 648	4 636	4 646	4 636	4 640	4 656	4 648	4 641	4 635
Developing countries												
Production	kt	145 697	148 740	148 128	151 861	154 677	157 224	159 585	160 395	164 199	166 612	168 990
of which aquaculture	kt	77 216	81 094	82 737	84 907	87 179	89 375	91 536	93 616	95 502	97 509	99 608
Consumption	kt	138 389	142 638	142 004	145 437	148 184	150 592	152 870	153 554	157 228	159 403	161 521
of which for food	kt	123 385	127 952	128 568	131 088	133 893	136 285	138 624	140 337	142 868	145 034	147 152
of which for reduction	kt	11 974	11 753	10 572	11 565	11 576	11 661	11 670	10 711	11 923	12 002	12 051
OECD												
Production	kt	29 473	29 684	29 302	29 568	29 905	30 075	30 171	29 925	30 335	30 587	30 714
of which aquaculture	kt	6 756	7 051	7 163	7 280	7 422	7 563	7 627	7 755	7 882	7 988	8 073
Consumption	kt	39 434	39 253	38 890	39 329	39 584	39 740	39 772	39 668	39 945	40 180	40 372
of which for food	kt	32 811	32 962	32 814	33 203	33 460	33 612	33 637	33 716	33 861	34 083	34 273
of which for reduction	kt	5 198	4 957	4 754	4 817	4 828	4 844	4 863	4 693	4 838	4 863	4 878
FISHMEAL⁵												
World												
Production	kt	5 343.4	5 305.3	5 057.7	5 364.5	5 429.5	5 506.0	5 566.7	5 375.8	5 749.6	5 824.0	5 890.2
from whole fish	kt	4 085.0	4 012.5	3 738.4	4 009.3	4 034.5	4 074.5	4 096.6	3 871.1	4 203.3	4 239.8	4 269.0
Consumption	kt	5 353.1	5 312.9	5 290.8	5 236.6	5 336.1	5 490.2	5 549.7	5 619.6	5 650.6	5 739.2	5 874.7
Variation in stocks	kt	-12.8	-7.6	-233.2	127.9	93.4	15.8	17.0	-243.9	99.0	84.9	15.5
Price ⁶	USD/t	1 447.7	1 418.3	1 502.5	1 467.1	1 499.1	1 539.3	1 575.7	1 701.3	1 638.8	1 656.4	1 676.9
Developed countries												
Production	kt	1 591.5	1 531.6	1 544.2	1 556.2	1 578.0	1 592.0	1 610.3	1 631.3	1 646.5	1 662.2	1 678.1
from whole fish	kt	1 175.9	1 120.6	1 125.5	1 127.0	1 133.0	1 134.3	1 138.8	1 146.4	1 148.0	1 150.1	1 152.2
Consumption	kt	1 640.2	1 621.7	1 566.5	1 544.5	1 552.2	1 573.5	1 564.3	1 553.3	1 555.9	1 558.5	1 566.4
Variation in stocks	kt	-9.1	-32.6	-52.2	35.9	6.4	1.8	4.0	-52.9	34.5	8.4	3.0
Developing countries												
Production	kt	3 751.9	3 773.6	3 513.4	3 808.3	3 851.4	3 914.0	3 956.3	3 744.4	4 103.1	4 161.8	4 212.1
from whole fish	kt	2 909.1	2 892.0	2 612.9	2 882.3	2 901.5	2 940.2	2 957.8	2 724.7	3 055.3	3 089.7	3 116.8
Consumption	kt	3 867.5	3 801.2	3 824.4	3 782.1	3 863.9	3 986.7	4 045.4	4 116.3	4 134.8	4 210.6	4 328.3
Variation in stocks	kt	-3.7	25.0	-181.0	92.0	87.0	14.0	13.0	-191.0	64.5	76.5	12.5
OECD												
Production	kt	1 614.5	1 557.4	1 524.5	1 555.6	1 579.6	1 601.7	1 624.8	1 603.1	1 655.5	1 680.0	1 702.0
from whole fish	kt	1 200.8	1 145.4	1 104.9	1 125.9	1 134.2	1 143.8	1 153.3	1 118.4	1 157.4	1 168.4	1 176.8
Consumption	kt	1 873.8	1 921.6	1 864.9	1 831.0	1 842.0	1 871.9	1 863.8	1 855.5	1 863.5	1 876.2	1 899.0
Variation in stocks	kt	5.2	-47.6	-62.2	30.9	11.4	3.8	7.0	-57.9	34.5	10.4	6.0

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

Calendar year

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
FISH OIL⁵												
World												
Production	kt	1 187.4	1 270.8	1 224.6	1 286.5	1 300.2	1 316.4	1 328.8	1 294.4	1 363.6	1 377.9	1 391.2
from whole fish	kt	702.2	729.1	674.6	724.8	727.8	734.0	736.4	692.1	752.6	758.2	762.5
Consumption	kt	1 210.2	1 254.9	1 254.4	1 261.6	1 299.2	1 312.9	1 327.4	1 336.3	1 339.2	1 382.2	1 392.5
Variation in stocks	kt	-22.8	13.0	-31.8	23.9	1.0	4.5	3.4	-38.9	28.5	-0.2	0.7
Price ⁷	USD/t	1 600.3	1 871.0	1 956.0	1 898.3	1 920.0	1 959.4	2 003.8	2 131.7	2 075.9	2 106.4	2 142.9
Developed countries												
Production	kt	457.1	460.8	465.1	469.4	474.8	479.4	484.3	489.6	493.9	498.0	502.0
from whole fish	kt	214.9	201.4	200.7	199.7	199.8	199.2	199.0	199.3	198.7	198.3	197.9
Consumption	kt	593.9	611.8	616.6	618.4	639.7	650.5	658.6	671.1	667.1	691.5	695.0
Variation in stocks	kt	-4.1	-9.1	-13.8	11.9	3.0	-0.5	-0.6	-14.9	11.5	2.8	-0.3
Developing countries												
Production	kt	732.3	810.0	759.6	817.1	825.5	837.0	844.5	804.8	869.7	879.9	889.2
from whole fish	kt	489.3	527.7	473.9	525.1	528.1	534.8	537.5	492.8	553.8	559.9	564.6
Consumption	kt	578.1	623.0	619.9	627.2	645.5	650.4	658.8	657.2	666.1	686.7	695.5
Variation in stocks	kt	-18.8	22.0	-18.0	12.0	-2.0	5.0	4.0	-24.0	17.0	-3.0	1.0
OECD												
Production	kt	558.4	559.1	554.3	563.2	569.5	575.9	582.4	579.3	591.9	598.2	603.7
from whole fish	kt	252.5	244.1	233.9	237.0	237.5	238.2	239.1	230.5	237.8	239.0	239.7
Consumption	kt	771.2	803.6	802.7	813.4	841.1	851.9	860.5	862.4	869.4	902.6	910.4
Variation in stocks	kt	4.7	-11.1	-19.8	14.9	-1.0	6.5	0.4	-21.9	14.5	-2.2	-0.3

Note: The term “fish” indicates fish, crustaceans, molluscs and other aquatic animals, but excludes aquatic mammals, crocodiles, caimans, alligators and aquatic plants. Average 2017-19est: Data for 2019 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. Data are in product weight.
6. Fishmeal, 64-65% protein, Hamburg, Germany.
7. Fish oil, any origin, N.W. Europe.

Source: OECD/FAO (2020), “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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ETHANOL												
World												
Production	bln L	124.9	130.8	132.1	133.0	133.9	134.9	135.8	136.8	137.9	139.0	140.1
Consumption	bln L	124.7	130.6	131.9	132.9	133.8	134.9	135.9	136.9	138.1	139.2	140.2
Exports	bln L	10.7	10.6	10.5	10.4	10.2	10.1	10.0	9.9	9.8	9.8	9.7
Price ¹	USD/hl	38.7	39.6	42.7	45.9	47.4	48.2	49.4	49.4	50.0	50.7	51.3
Developed countries												
Production	bln L	70.8	71.9	72.4	72.5	72.7	72.8	73.2	73.4	73.7	73.9	74.1
Consumption	bln L	69.2	70.6	71.3	71.6	71.9	72.1	72.5	72.8	73.1	73.3	73.5
Net trade	bln L	1.6	1.0	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7
Developing countries												
Production	bln L	54.1	58.9	59.7	60.5	61.1	62.0	62.6	63.5	64.2	65.1	66.0
Consumption	bln L	55.6	60.0	60.6	61.3	61.9	62.8	63.4	64.2	65.0	65.9	66.7
Net trade	bln L	-2.1	-1.0	-0.9	-0.8	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7
OECD²												
Production	bln L	70.3	71.6	72.1	72.2	72.4	72.5	72.8	73.0	73.3	73.5	73.7
Consumption	bln L	70.0	71.6	72.3	72.6	72.9	73.1	73.5	73.8	74.1	74.3	74.5
Net trade	bln L	0.3	-0.3	-0.4	-0.5	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6
BIODIESEL												
World												
Production	bln L	43.1	48.3	47.4	47.2	47.2	47.1	46.9	46.7	46.4	46.0	45.6
Consumption	bln L	43.6	49.4	48.5	48.3	48.2	48.2	48.0	47.8	47.5	47.1	46.7
Exports	bln L	6.1	6.0	5.8	5.7	5.5	5.3	5.1	4.9	4.7	4.6	4.4
Price ³	USD/hl	83.2	81.8	85.8	88.8	90.5	91.2	91.5	92.6	93.8	94.7	95.1
Developed countries												
Production	bln L	24.3	27.1	26.0	25.7	25.4	25.1	24.7	24.3	23.8	23.3	22.7
Consumption	bln L	27.4	30.3	29.2	28.9	28.5	28.2	27.7	27.3	26.8	26.1	25.5
Net trade	bln L	-3.4	-3.1	-3.2	-3.1	-3.1	-3.0	-3.0	-2.9	-2.9	-2.8	-2.7
Developing countries												
Production	bln L	18.8	21.2	21.4	21.6	21.7	22.0	22.2	22.4	22.6	22.8	22.9
Consumption	bln L	16.2	19.1	19.3	19.4	19.7	20.0	20.2	20.5	20.7	20.9	21.2
Net trade	bln L	2.6	2.1	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.8	1.7
OECD²												
Production	bln L	25.6	28.5	27.4	27.0	26.8	26.5	26.1	25.7	25.2	24.6	24.1
Consumption	bln L	28.7	31.7	30.6	30.2	29.9	29.6	29.1	28.7	28.1	27.5	26.8
Net trade	bln L	-3.3	-3.1	-3.1	-3.1	-3.1	-3.0	-3.0	-2.9	-2.9	-2.8	-2.7

Note: Average 2017-19est: Data for 2019 are estimated. Prices are in nominal terms.

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

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.9. World cotton projections

Marketing year

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
WORLD												
Production	Mt	26.2	26.1	26.5	26.9	27.3	27.6	28.0	28.4	28.9	29.4	29.8
Area	Mha	33.3	33.7	33.8	34.0	34.2	34.3	34.5	34.6	34.8	35.0	35.2
Yield	t/ha	0.79	0.78	0.78	0.79	0.80	0.81	0.81	0.82	0.83	0.84	0.85
Consumption ¹	Mt	26.2	26.6	27.0	27.5	27.8	28.1	28.5	28.8	29.2	29.7	30.1
Exports	Mt	9.2	9.3	9.6	9.9	10.2	10.3	10.5	10.7	10.9	11.1	11.3
Closing stocks	Mt	18.6	17.8	17.2	16.4	15.7	15.1	14.5	13.9	13.4	13.0	12.5
Price ²	USD/t	1 834.4	1 656.6	1 659.8	1 680.7	1 690.0	1 715.2	1 739.2	1 778.9	1 809.7	1 836.0	1 858.1
DEVELOPED COUNTRIES												
Production	Mt	6.5	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0
Consumption	Mt	1.7	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.0
Exports	Mt	5.0	4.6	4.8	4.9	5.0	5.0	5.1	5.2	5.2	5.3	5.4
Imports	Mt	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Closing stocks	Mt	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
DEVELOPING COUNTRIES												
Production	Mt	19.7	20.1	20.4	20.6	20.9	21.1	21.4	21.8	22.1	22.5	22.9
Consumption	Mt	24.5	24.8	25.2	25.7	26.0	26.3	26.6	26.9	27.3	27.7	28.2
Exports	Mt	4.2	4.7	4.9	5.1	5.2	5.3	5.4	5.5	5.7	5.8	6.0
Imports	Mt	8.7	8.8	9.0	9.4	9.6	9.8	10.0	10.1	10.3	10.6	10.8
Closing stocks	Mt	16.5	15.7	15.0	14.3	13.6	13.0	12.4	11.8	11.3	10.8	10.4
OECD³												
Production	Mt	6.5	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1
Consumption	Mt	3.1	3.1	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.4	3.5
Exports	Mt	4.7	4.4	4.5	4.6	4.8	4.9	5.0	5.0	5.1	5.2	5.3
Imports	Mt	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7
Closing stocks	Mt	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 but includes all EU member countries.

Source: OECD/FAO (2020), "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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
REAL GDP¹												
Australia	%	2.3	2.3	2.3	2.7	3.3	3.3	3.2	3.2	3.1	3.1	3.1
Canada	%	2.1	1.6	1.7	1.7	2.1	2.1	2.1	2.1	2.1	2.1	2.0
Chile	%	2.6	3.0	3.2	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2
European Union	%	1.8	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Japan	%	1.2	0.6	0.7	0.5	1.1	1.2	1.2	1.3	1.3	1.3	1.3
Korea	%	2.6	2.3	2.3	2.9	2.8	2.7	2.6	2.5	2.5	2.4	2.3
Mexico	%	1.4	1.2	1.6	2.1	2.8	2.8	2.9	2.9	3.0	3.1	3.2
New Zealand	%	2.7	2.5	2.4	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5
Norway	%	1.6	2.4	2.3	1.6	2.2	2.1	2.0	2.0	1.9	1.9	1.9
Switzerland	%	1.8	1.4	1.0	1.6	2.1	2.1	2.1	2.0	2.0	2.0	2.0
Turkey	%	3.5	3.0	3.0	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5
United Kingdom	%	1.5	1.0	1.2	1.5	2.8	2.7	2.7	2.6	2.6	2.5	2.5
United States	%	2.5	2.0	2.0	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.3
Brazil	%	1.0	1.7	1.8	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7
China	%	6.5	5.7	5.5	5.7	4.4	4.2	4.0	3.9	3.7	3.6	3.5
Egypt	%	5.0	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
India	%	6.7	7.0	7.4	7.4	7.4	7.3	7.3	7.3	7.3	7.3	7.3
Indonesia	%	5.1	5.1	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Iran	%	-3.5	0.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1
Malaysia	%	5.0	4.4	4.9	4.8	4.8	4.9	4.9	4.9	4.9	4.9	4.9
Pakistan	%	4.7	2.4	3.0	4.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Russia	%	1.7	1.6	1.4	2.0	2.8	2.8	2.8	2.8	2.7	2.7	2.6
Saudi Arabia	%	0.6	2.2	2.2	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5
South Africa	%	1.0	1.1	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Ukraine	%	2.9	3.0	3.1	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
OECD ^{2,3}	%	2.2	1.7	1.7	2.0	2.2	2.2	2.2	2.1	2.1	2.1	2.1
PCE DEFLATOR¹												
Australia	%	1.6	1.7	1.6	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Canada	%	1.6	1.9	1.8	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0
Chile	%	2.2	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
European Union	%	1.5	1.2	1.3	1.6	1.7	1.8	1.7	1.7	1.7	1.7	1.7
Japan	%	0.3	1.0	1.0	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Korea	%	1.2	1.3	1.4	1.8	1.9	2.0	2.0	2.0	2.0	2.0	2.0
Mexico	%	4.2	2.8	2.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
New Zealand	%	1.5	1.7	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Norway	%	2.1	1.7	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Switzerland	%	0.7	0.6	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Turkey	%	14.4	12.6	12.4	11.4	11.0	11.0	11.0	11.0	11.0	11.0	11.0
United Kingdom	%	1.8	1.8	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
United States	%	1.8	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Brazil	%	3.1	3.0	3.4	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5
China	%	2.0	2.4	2.8	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Egypt	%	19.4	10.0	7.2	7.0	7.0	7.1	7.1	7.1	7.1	7.1	7.1
India	%	3.5	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Indonesia	%	3.4	3.3	3.1	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Iran	%	2.1	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Malaysia	%	1.9	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Pakistan	%	5.1	13.0	8.3	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Russia	%	3.7	3.5	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Saudi Arabia	%	0.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
South Africa	%	4.8	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Ukraine	%	11.4	5.9	5.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
OECD ^{2,3}	%	2.5	2.6	2.7	2.8	2.9	3.0	3.0	3.1	3.2	3.3	3.4

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Table C.10. Economic assumptions (cont.)

Calendar year

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
GDP DEFLATOR¹												
Australia	%	3.0	1.3	1.1	2.3	2.4	2.1	2.1	2.1	2.1	2.1	2.1
Canada	%	2.1	2.0	1.9	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1
Chile	%	3.0	2.6	3.3	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
European Union	%	1.1	1.4	1.5	1.4	1.5	1.6	1.5	1.5	1.5	1.5	1.5
Japan	%	0.1	0.9	1.0	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Korea	%	0.7	1.1	1.3	1.6	1.8	2.0	2.0	2.0	2.0	2.0	2.0
Mexico	%	5.1	2.7	2.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
New Zealand	%	2.2	2.2	2.0	2.2	2.0	2.1	2.1	2.1	2.1	2.1	2.1
Norway	%	3.0	1.5	2.2	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Switzerland	%	0.1	0.7	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Turkey	%	13.9	11.8	11.6	10.9	10.8	11.0	11.0	11.0	11.0	11.0	11.0
United Kingdom	%	2.0	1.7	1.6	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
United States	%	2.0	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Brazil	%	3.5	3.1	3.5	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
China	%	2.7	1.5	2.1	2.1	2.2	2.3	2.3	2.3	2.3	2.3	2.3
Egypt	%	19.4	9.7	7.1	7.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9
India	%	3.8	4.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Indonesia	%	3.8	3.3	3.0	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Iran	%	2.1	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Malaysia	%	1.8	1.3	2.2	2.1	2.2	2.3	2.3	2.3	2.3	2.3	2.3
Pakistan	%	5.0	12.8	9.9	7.0	5.2	5.1	5.1	5.1	5.1	5.1	5.1
Russia	%	6.8	2.9	2.9	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Saudi Arabia	%	6.0	-1.6	-0.1	1.2	1.6	2.0	2.0	2.0	2.0	2.0	2.0
South Africa	%	4.5	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Ukraine	%	15.8	8.3	6.8	6.2	5.9	5.6	5.6	5.6	5.6	5.6	5.6
OECD ³	%	2.5	2.5	2.6	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3
WORLD INPUT PRICES												
Brent crude oil ⁴	USD/barrel	63.1	64.8	66.2	67.5	68.9	70.3	71.7	73.2	74.7	76.2	77.8
Fertiliser ⁵	USD/t	258.0	261.5	265.4	268.8	272.2	275.0	279.0	283.5	288.1	292.7	297.3
EXCHANGE RATES												
Australia	AUD/USD	1.36	1.47	1.47	1.47	1.47	1.47	1.46	1.46	1.46	1.46	1.46
Canada	CAD/USD	1.31	1.31	1.31	1.29	1.27	1.25	1.23	1.21	1.19	1.17	1.16
Chile	CLP/USD	656.72	685.57	689.60	694.40	699.41	704.61	709.85	715.13	720.44	725.80	731.19
European Union	EUR/USD	0.88	0.90	0.90	0.89	0.89	0.88	0.88	0.87	0.86	0.86	0.85
Japan	JPY/USD	110.54	108.73	108.73	106.34	103.86	101.24	98.69	96.20	93.78	91.42	89.12
Korea	KRW/USD	1 131.94	1 169.60	1 169.60	1 163.23	1 157.73	1 151.87	1 146.04	1 140.25	1 134.48	1 128.74	1 123.03
Mexico	MXN/USD	19.08	19.02	19.02	19.15	19.28	19.41	19.55	19.68	19.82	19.96	20.10
New Zealand	NZD/USD	1.46	1.58	1.58	1.56	1.54	1.53	1.51	1.49	1.48	1.46	1.45
Brazil	BRL/USD	3.59	3.98	3.98	4.05	4.11	4.17	4.23	4.29	4.35	4.41	4.48
China	CNY/USD	6.77	7.07	7.07	7.05	7.04	7.02	7.01	7.00	6.99	6.97	6.96
Egypt	EGP/USD	16.69	17.52	18.64	20.04	21.49	22.54	23.64	24.80	26.02	27.29	28.63
India	INR/USD	68.52	72.61	73.95	75.32	76.63	77.96	79.31	80.68	82.08	83.51	84.96
Indonesia	'000 IDR/USD	14.11	14.48	14.57	14.75	14.93	15.11	15.29	15.47	15.65	15.84	16.03
Malaysia	MYR/USD	4.17	4.23	4.23	4.22	4.22	4.22	4.21	4.21	4.20	4.20	4.20
Pakistan	PKR/USD	106.38	121.55	130.94	137.36	141.56	145.78	150.13	154.60	159.21	163.95	168.84
Russia	RUB/USD	61.97	63.71	63.71	65.08	66.18	67.12	68.07	69.03	70.01	71.00	72.01
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	13.61	14.72	15.15	15.59	16.04	16.47	16.92	17.39	17.86	18.35	18.85
Ukraine	UAH/USD	26.85	27.72	28.70	29.67	30.64	31.61	32.62	33.65	34.72	35.82	36.96
United Kingdom	GBP/USD	0.77	0.78	0.78	0.78	0.77	0.77	0.76	0.76	0.76	0.75	0.75

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Table C.10. Economic assumptions (cont.)

Calendar year

		2019est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
POPULATION¹												
Australia	%	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9
Canada	%	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
Chile	%	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5
European Union	%	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Japan	%	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5
Korea	%	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1
Mexico	%	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8
New Zealand	%	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.6
Norway	%	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Switzerland	%	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.5
Turkey	%	1.3	1.1	0.8	0.6	0.5	0.4	0.4	0.5	0.5	0.5	0.6
United Kingdom	%	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3
United States	%	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5
Argentina	%	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8
Brazil	%	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4
China	%	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1
Egypt	%	1.8	1.8	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.4
India	%	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8
Indonesia	%	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.7
Iran	%	1.0	0.9	0.9	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.4
Malaysia	%	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.0	1.0
Pakistan	%	1.9	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5
Russia	%	0.1	0.0	0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3
Saudi Arabia	%	1.7	1.7	1.6	1.5	1.4	1.4	1.3	1.3	1.2	1.1	1.1
South Africa	%	1.2	1.1	1.1	1.1	1.0	1.0	0.9	0.9	0.9	0.8	0.8
Ukraine	%	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.6	-0.6	-0.6
OECD ³	%	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
World	%	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
REAL GDP PER CAPITA¹												
Australia	%	1.0	1.1	1.2	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7
Canada	%	1.2	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0
Chile	%	1.8	2.3	2.5	2.6	2.6	2.5	2.5	2.6	2.6	2.6	2.6
European Union	%	1.6	1.0	1.1	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9
Japan	%	1.5	0.9	1.1	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.1
Korea	%	2.4	2.2	2.3	2.8	2.8	2.9	2.9	3.0	3.0	3.0	3.0
Mexico	%	0.3	0.2	0.5	1.1	1.3	1.4	1.5	1.5	1.5	1.6	1.6
New Zealand	%	1.8	1.7	1.6	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.8
Norway	%	0.8	1.6	1.4	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9
Switzerland	%	1.0	0.6	0.3	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.1
Turkey	%	2.1	1.9	2.2	2.4	3.0	3.1	3.1	3.0	3.0	2.9	2.9
United Kingdom	%	0.9	0.5	0.7	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2
United States	%	1.9	1.4	1.4	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8
Brazil	%	0.2	0.9	1.1	1.7	1.8	1.7	1.7	1.7	1.8	1.8	1.8
China	%	6.0	5.3	5.1	5.4	5.3	5.3	5.3	5.3	5.4	5.4	5.4
Egypt	%	3.0	4.0	4.2	4.3	4.3	4.4	4.4	4.4	4.5	4.5	4.5
India	%	5.5	5.9	6.3	6.4	6.4	6.3	6.4	6.4	6.4	6.4	6.5
Indonesia	%	4.0	4.0	4.2	4.3	4.4	4.4	4.4	4.4	4.5	4.5	4.5
Iran	%	-6.5	-3.2	-1.9	-1.8	-1.8	-1.6	-1.5	-1.5	-1.4	-1.4	-1.4
Malaysia	%	3.6	3.1	3.6	3.5	3.5	3.6	3.7	3.7	3.8	3.8	3.9
Pakistan	%	2.7	0.5	1.2	2.7	3.3	3.3	3.3	3.4	3.4	3.5	3.5
Russia	%	1.5	1.5	1.4	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.1
Saudi Arabia	%	-1.2	0.5	0.6	0.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4
South Africa	%	-0.3	-0.1	0.3	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9
Ukraine	%	3.4	3.5	3.7	3.7	3.9	3.9	3.9	3.9	3.9	3.9	4.0
OECD ³	%	1.6	1.2	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

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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. 106, November 2019. For other economies, historical macroeconomic data were obtained from the IMF, World Economic Outlook, October 2019. Assumptions for the projection period draw on the recent medium term update of the OECD Economics Department, projections of the IMF, and for population, projections from the United Nations World Population Prospects Database, 2019 Revision (medium variant). Data for the European Union are euro area aggregates except for population. The price index used is the private consumption expenditure deflator. Average 2017-19est and 2019est: Data for 2019 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 but includes all EU member countries.
4. Short-term update for crude oil price from the OECD Economic Outlook N°106 (November 2019). For 2019, the annual average monthly spot price is used, while the average daily spot price for December 2019 is used as the oil price value for the year 2020 and oil prices during the projection period are expected to remain flat in real terms.
5. World Bank. Data for 2019 are estimated, projections by OECD and FAO Secretariats.

Source: OECD/FAO (2020), "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 2017-19 ^{est}	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CEREALS												
Wheat ¹	USD/t	225.4	217.0	218.8	222.4	227.9	232.1	236.4	240.7	244.8	249.1	253.4
Maize ²	USD/t	165.2	168.1	171.3	174.5	178.2	181.1	184.3	187.7	190.8	194.1	197.6
Other coarse grains ³	USD/t	196.9	188.6	193.2	197.3	204.6	209.7	214.2	218.0	221.7	225.7	229.6
Rice ⁴	USD/t	428.7	435.3	431.8	434.1	441.3	449.4	455.7	462.2	467.5	472.3	476.2
Distiller's dry grains ⁵	USD/t	130.3	134.2	136.4	139.1	142.3	144.9	147.9	150.9	153.7	156.7	159.8
OILSEEDS												
Soybean ⁶	USD/t	384.4	394.6	404.4	412.7	420.6	429.0	439.7	447.7	455.9	465.0	474.3
Other oilseeds ⁷	USD/t	426.6	431.2	448.4	457.0	461.6	471.0	479.6	487.6	494.6	502.0	509.8
Protein meals ⁸	USD/t	323.6	315.3	319.3	326.5	334.3	341.2	349.3	357.4	364.7	373.1	381.7
Vegetable oils ⁹	USD/t	724.0	775.7	800.0	818.9	828.8	845.5	864.6	879.6	893.4	907.2	921.8
SWEETENERS												
Raw sugar ¹⁰	USD/t	286.5	318.9	314.4	323.0	330.7	337.1	344.1	353.9	364.7	375.0	385.7
Refined sugar ¹¹	USD/t	357.0	399.0	394.4	403.7	409.0	416.6	423.1	432.1	444.2	456.2	468.9
HFCS ¹²	USD/t dw	821.7	616.6	519.8	535.2	541.9	550.0	557.3	571.5	588.6	603.9	620.3
Molasses ¹³	USD/t	144.7	155.1	158.0	159.7	161.0	161.0	160.3	159.7	160.3	161.9	164.1
MEAT												
Beef and veal												
Price, EU ¹⁴	USD/t dwt	4 255.1	4 093.0	4 073.1	4 031.8	3 992.2	3 999.4	4 002.3	4 056.6	4 084.4	4 109.1	4 138.4
Price, United States ¹⁵	USD/t dwt	4 212.7	4 183.8	4 171.0	4 133.4	4 098.5	4 118.2	4 151.7	4 187.6	4 214.0	4 237.7	4 260.8
Price, Brazil ¹⁶	USD/t dwt	4 014.7	4 075.1	4 019.6	3 979.2	3 940.2	3 949.6	3 963.2	4 003.7	4 036.4	4 065.7	4 090.0
Pigmeat												
Price, EU ¹⁷	USD/t dwt	1 778.5	2 046.9	2 016.6	2 013.9	2 001.3	2 010.3	2 025.0	2 042.6	2 053.9	2 069.7	2 077.5
Price, United States ¹⁸	USD/t dwt	1 473.4	1 679.3	1 671.7	1 681.4	1 681.2	1 673.3	1 657.6	1 650.2	1 639.2	1 633.5	1 623.0
Price, Brazil ¹⁹	USD/t dwt	2 233.0	2 532.3	2 455.5	2 445.2	2 439.4	2 447.6	2 461.3	2 479.8	2 488.0	2 507.6	2 512.9
Poultry meat												
Price, EU ²⁰	USD/t rtc	2 163.1	2 200.4	2 225.2	2 271.0	2 287.6	2 316.7	2 340.8	2 363.6	2 385.4	2 408.1	2 429.3
Price, United States ²¹	USD/t rtc	1 191.7	1 147.5	1 163.6	1 187.3	1 195.1	1 209.8	1 220.7	1 233.4	1 245.0	1 257.2	1 269.7
Price, Brazil ²²	USD/t rtc	1 608.7	1 663.5	1 685.3	1 719.6	1 731.5	1 753.3	1 770.6	1 791.0	1 810.0	1 830.2	1 850.6
Sheep meat												
Price, New Zealand ²³	USD/t dwt	4 612.0	4 844.1	4 766.7	4 711.9	4 684.7	4 682.6	4 689.5	4 708.5	4 738.5	4 776.3	4 817.7
FISH AND SEAFOOD												
Product traded ²⁴	USD/t	3 032.7	3 135.0	3 260.0	3 396.7	3 490.6	3 603.4	3 634.4	3 684.9	3 629.6	3 660.5	3 690.1
Aquaculture ²⁵	USD/t	3 022.3	3 041.0	3 194.8	3 328.8	3 420.7	3 567.4	3 634.4	3 684.9	3 629.6	3 660.5	3 708.5
Capture ²⁶	USD/t	1 831.0	1 917.0	1 978.3	2 036.3	2 078.4	2 149.9	2 188.4	2 238.8	2 214.9	2 231.2	2 247.2
Meal ²⁷	USD/t	1 447.7	1 418.3	1 502.5	1 467.1	1 499.1	1 539.3	1 575.7	1 701.3	1 638.8	1 656.4	1 676.9
Oji ²⁸	USD/t	1 600.3	1 871.0	1 956.0	1 898.3	1 920.0	1 959.4	2 003.8	2 131.7	2 075.9	2 106.4	2 142.9
DAIRY PRODUCTS												
Butter ²⁹	USD/t	4 927.1	4 028.3	4 111.5	4 198.8	4 270.0	4 348.1	4 425.4	4 501.8	4 572.8	4 645.6	4 721.6
Cheese ³⁰	USD/t	3 805.0	3 783.7	3 868.1	3 954.7	4 041.6	4 132.0	4 220.1	4 310.5	4 398.5	4 488.6	4 582.2
Skim milk powder ³¹	USD/t	2 219.7	2 912.5	2 997.1	3 061.9	3 136.3	3 206.5	3 271.8	3 338.5	3 404.4	3 471.8	3 538.2
Whole milk powder ³²	USD/t	3 077.6	3 242.6	3 302.1	3 384.6	3 459.0	3 534.4	3 606.4	3 678.8	3 749.6	3 823.6	3 898.3
Whey powder ³³	USD/t	957.5	965.2	976.1	999.3	1 025.7	1 044.6	1 068.1	1 089.1	1 110.0	1 132.3	1 157.9
Casein ³⁴	USD/t	6 062.1	6 461.6	6 578.8	6 712.8	6 847.5	6 981.8	7 116.1	7 251.4	7 387.1	7 524.2	7 662.2
BIOFUEL												
Ethanol ³⁵	USD/hl	38.7	39.6	42.7	45.9	47.4	48.2	49.4	49.4	50.0	50.7	51.3
Biodiesel ³⁶	USD/hl	83.2	81.8	85.8	88.8	90.5	91.2	91.5	92.6	93.8	94.7	95.1
COTTON												
Cotton ³⁷	USD/t	1 834.4	1 656.6	1 659.8	1 680.7	1 690.0	1 715.2	1 739.2	1 778.9	1 809.7	1 836.0	1 858.1
ROOTS AND TUBERS												
Roots and tubers ³⁸	USD/t	432.1	482.9	492.0	505.2	511.6	520.8	527.5	536.9	543.7	553.6	562.0
USA GDP Deflator (2019=1)	Index	0.981	1.022	1.044	1.065	1.087	1.109	1.132	1.155	1.178	1.203	1.227

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Table C.11. World prices (cont.)

Real price

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CEREALS												
Wheat ¹	USD/t	230.1	212.3	209.6	208.7	209.7	209.2	208.9	208.5	207.7	207.2	206.5
Maize ²	USD/t	168.4	164.5	164.1	163.8	163.9	163.3	162.9	162.5	161.9	161.4	161.0
Other coarse grains ³	USD/t	200.9	184.6	185.1	185.2	188.2	189.1	189.2	188.7	188.1	187.7	187.1
Rice ⁴	USD/t	437.3	426.0	413.5	407.4	406.0	405.1	402.6	400.2	396.8	392.8	388.1
Distiller's dry grains ⁵	USD/t	132.9	131.4	130.6	130.6	130.9	130.7	130.7	130.7	130.4	130.3	130.3
OILSEEDS												
Soybean ⁶	USD/t	392.3	386.1	387.3	387.4	386.9	386.7	388.5	387.7	386.9	386.7	386.6
Other oilseeds ⁷	USD/t	435.1	421.9	429.5	429.0	424.6	424.6	423.8	422.2	419.7	417.5	415.5
Protein meals ⁸	USD/t	330.6	308.6	305.8	306.5	307.5	307.6	308.6	309.5	309.5	310.3	311.1
Vegetable oils ⁹	USD/t	738.6	759.1	766.2	768.6	762.4	762.3	763.9	761.6	758.1	754.5	751.3
SWEETENERS												
Raw sugar ¹⁰	USD/t	292.1	312.1	301.1	303.2	304.2	303.9	304.0	306.4	309.5	311.9	314.4
Refined sugar ¹¹	USD/t	364.0	390.4	377.7	379.0	376.3	375.6	373.8	374.2	376.9	379.4	382.1
HFCS ¹²	USD/t dw	839.3	603.4	497.9	502.3	498.5	495.8	492.4	494.9	499.5	502.3	505.5
Molasses ¹³	USD/t	147.5	151.8	151.4	149.9	148.1	145.1	141.6	138.3	136.1	134.6	133.8
MEAT												
Beef and veal												
Price, EU ¹⁴	USD/t dwt	4 342.5	4 005.5	3 900.9	3 784.4	3 672.5	3 605.7	3 536.2	3 512.6	3 465.9	3 417.3	3 372.8
Price, United States ¹⁵	USD/t dwt	4 298.8	4 094.3	3 994.6	3 879.7	3 770.3	3 712.7	3 668.2	3 626.0	3 576.0	3 524.2	3 472.6
Price, Brazil ¹⁶	USD/t dwt	4 095.5	3 987.9	3 849.7	3 735.1	3 624.7	3 560.8	3 501.6	3 466.8	3 425.2	3 381.1	3 333.4
Pigmeat												
Price, EU ¹⁷	USD/t dwt	1 814.1	2 003.1	1 931.3	1 890.3	1 841.0	1 812.4	1 789.2	1 768.7	1 742.9	1 721.2	1 693.2
Price, United States ¹⁸	USD/t dwt	1 503.7	1 643.4	1 601.0	1 578.2	1 546.5	1 508.5	1 464.5	1 428.9	1 391.0	1 358.5	1 322.8
Price, Brazil ¹⁹	USD/t dwt	2 279.9	2 478.2	2 351.7	2 295.2	2 244.0	2 206.7	2 174.7	2 147.2	2 111.3	2 085.4	2 048.1
Poultry meat												
Price, EU ²⁰	USD/t rtc	2 206.2	2 153.3	2 131.1	2 131.7	2 104.4	2 088.6	2 068.2	2 046.6	2 024.2	2 002.6	1 979.9
Price, United States ²¹	USD/t rtc	1 216.5	1 122.9	1 114.4	1 114.4	1 099.4	1 090.6	1 078.6	1 068.0	1 056.5	1 045.5	1 034.8
Price, Brazil ²²	USD/t rtc	1 641.4	1 627.9	1 614.1	1 614.1	1 592.8	1 580.7	1 564.4	1 550.8	1 535.9	1 522.1	1 508.3
Sheep meat												
Price, New Zealand ²³	USD/t dwt	4 697.8	4 740.5	4 565.1	4 422.7	4 309.5	4 221.6	4 143.4	4 077.1	4 021.0	3 972.1	3 926.4
FISH AND SEAFOOD												
Product traded ²⁴	USD/t	3 093.3	3 067.9	3 122.1	3 188.3	3 211.0	3 248.7	3 211.1	3 190.7	3 080.0	3 044.2	3 007.4
Aquaculture ²⁵	USD/t	3 082.9	2 975.9	3 059.7	3 124.5	3 146.8	3 216.2	3 211.1	3 190.7	3 080.0	3 044.2	3 022.5
Capture ²⁶	USD/t	1 867.6	1 876.0	1 894.6	1 911.3	1 912.0	1 938.3	1 933.5	1 938.5	1 879.6	1 855.5	1 831.5
Meal ²⁷	USD/t	1 476.1	1 387.9	1 438.9	1 377.1	1 379.0	1 387.8	1 392.2	1 473.1	1 390.6	1 377.5	1 366.7
Oji ²⁸	USD/t	1 630.8	1 831.0	1 873.3	1 781.9	1 766.2	1 766.5	1 770.4	1 845.8	1 761.6	1 751.8	1 746.5
DAIRY PRODUCTS												
Butter ²⁹	USD/t	5 032.4	3 942.1	3 937.7	3 941.1	3 928.0	3 920.0	3 910.0	3 898.1	3 880.4	3 863.4	3 848.2
Cheese ³⁰	USD/t	3 881.3	3 702.8	3 704.6	3 712.1	3 718.0	3 725.2	3 728.6	3 732.4	3 732.5	3 732.9	3 734.5
Skim milk powder ³¹	USD/t	2 260.6	2 850.2	2 870.4	2 874.1	2 885.1	2 890.8	2 890.7	2 890.8	2 888.9	2 887.3	2 883.6
Whole milk powder ³²	USD/t	3 139.4	3 173.2	3 162.5	3 176.9	3 182.0	3 186.4	3 186.4	3 185.5	3 181.9	3 179.8	3 177.2
Whey powder ³³	USD/t	977.6	944.6	934.8	937.9	943.6	941.8	943.7	943.0	941.9	941.6	943.7
Casein ³⁴	USD/t	6 189.1	6 323.4	6 300.7	6 300.9	6 299.1	6 294.4	6 287.4	6 278.9	6 268.6	6 257.3	6 244.8
BIOFUEL												
Ethanol ³⁵	USD/hi	39.5	38.7	40.9	43.1	43.6	43.4	43.7	42.8	42.5	42.1	41.8
Biodiesel ³⁶	USD/hi	84.9	80.1	82.1	83.3	83.2	82.2	80.9	80.2	79.6	78.7	77.5
COTTON												
Cotton ³⁷	USD/t	1 873.1	1 621.2	1 589.6	1 577.5	1 554.6	1 546.3	1 536.6	1 540.3	1 535.7	1 526.9	1 514.3
ROOTS AND TUBERS												
Roots and tubers ³⁸	USD/t	439.9	472.6	471.2	474.2	470.6	469.5	466.1	464.9	461.4	460.4	458.0

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 products on calendar year basis. See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 are estimated. Real prices are deflated using USA GDP base year 2018=1.

1. No.2 hard red winter wheat, ordinary protein, United States FOB Gulf Ports (June/May).
2. No.2 yellow corn, United States FOB Gulf Ports (September/August).
3. Feed barley, Europe, FOB Rouen (July/June).
4. Milled 100%, grade b, nominal price quote, FOB Bangkok (January/December).
5. Wholesale price, Central Illinois (September/August).
6. Soybean, U.S., CIF Rotterdam (October/September).
7. Rapeseed, Europe, CIF Hamburg (October/September).
8. Weighted average meal price, European port (October/September).
9. Weighted average price of oilseed oils and palm oil, European port (October/September).
10. Raw sugar world price, ICE contract No11 nearby (October/September).
11. Refined sugar price, Euronext, Liffe, Contract No. 407 London, Europe (October/September).
12. United States wholesale spot price for HFCS-55, dry weight (October/September).
13. Unit import price, Europe (October/September).
14. EU average beef producer price.
15. Choice steers, 1100-1300 lb lw, Nebraska - lw to dwt conversion factor 0.63.
16. Brazil: frozen beef, export unit value, product weight.
17. EU average pigmeat producer price.
18. Barrows and gilts, No. 1-3, 230-250 lb lw, Iowa/South Minnesota - lw to dwt conversion factor 0.74.
19. Brazil: frozen pigmeat, export unit value, product weight.
20. EU average producer price.
21. Wholesale weighted average broiler price 12 cities average prior 2013. 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 (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.12.1. World trade projections, imports

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Wheat												
World Trade	kt	172 945	184 180	188 911	192 416	196 133	199 104	201 803	204 528	207 101	209 810	212 482
OECD ¹	kt	38 621	38 919	39 152	39 078	39 107	39 224	39 266	39 320	39 349	39 505	39 618
Developing countries	kt	142 228	154 037	158 660	162 109	165 746	168 694	171 377	174 066	176 622	179 234	181 846
Least Developed Countries	kt	17 255	19 126	19 569	20 138	20 718	21 284	21 862	22 450	23 050	23 656	24 280
Maize												
World Trade	kt	160 262	163 226	167 128	170 518	174 401	177 834	181 050	184 267	187 545	190 852	194 305
OECD ¹	kt	78 161	77 402	80 124	81 122	81 748	82 639	83 486	84 293	85 138	85 983	86 850
Developing countries	kt	117 349	121 421	123 575	126 796	130 639	133 846	136 849	139 902	142 999	146 117	149 395
Least Developed Countries	kt	3 659	3 570	3 496	3 480	3 522	3 609	3 691	3 763	3 837	3 907	3 975
Other coarse grains												
World Trade	kt	36 158	38 001	38 476	38 692	39 115	39 616	40 116	40 759	41 336	41 937	42 575
OECD ¹	kt	7 444	7 614	7 658	7 669	7 641	7 663	7 679	7 707	7 709	7 730	7 759
Developing countries	kt	29 395	31 078	31 643	31 943	32 430	32 970	33 514	34 190	34 807	35 434	36 091
Least Developed Countries	kt	662	698	657	637	689	752	835	965	1 096	1 206	1 313
Rice												
World Trade	kt	46 985	48 744	50 261	51 301	52 519	54 014	55 556	57 020	58 599	60 190	61 858
OECD ¹	kt	6 422	6 608	6 673	6 725	6 793	6 858	6 934	7 006	7 076	7 147	7 222
Developing countries	kt	40 808	42 393	43 871	44 858	46 007	47 445	48 927	50 327	51 844	53 368	54 967
Least Developed Countries	kt	10 923	10 977	11 632	12 183	12 784	13 588	14 367	15 184	16 045	16 941	17 889
Soybean												
World Trade	kt	149 088	149 264	155 561	157 835	160 046	162 146	163 976	166 214	168 348	170 451	172 540
OECD ¹	kt	29 822	30 274	30 460	30 690	30 897	31 012	30 983	31 026	31 039	31 051	31 061
Developing countries	kt	126 084	126 079	132 369	134 613	136 796	138 952	140 968	143 340	145 631	147 891	150 135
Least Developed Countries	kt	1 284	1 563	1 602	1 636	1 666	1 695	1 721	1 749	1 778	1 805	1 833
Other oilseeds												
World Trade	kt	21 144	20 999	21 328	21 525	21 845	22 190	22 491	22 773	23 079	23 384	23 692
OECD ¹	kt	12 260	12 015	12 093	12 171	12 283	12 336	12 328	12 316	12 311	12 307	12 309
Developing countries	kt	11 008	11 074	11 354	11 510	11 754	12 079	12 423	12 755	13 107	13 458	13 807
Least Developed Countries	kt	246	223	240	249	265	282	297	314	332	350	369
Protein meals												
World Trade	kt	89 890	91 908	92 134	92 840	93 623	94 389	95 124	95 946	96 690	97 442	98 161
OECD ¹	kt	48 317	48 099	48 372	48 291	48 298	48 279	48 317	48 350	48 426	48 474	48 538
Developing countries	kt	49 632	52 008	52 165	53 099	54 001	54 930	55 772	56 694	57 505	58 350	59 151
Least Developed Countries	kt	889	872	909	945	992	1 039	1 087	1 138	1 186	1 230	1 281
Vegetable oils												
World Trade	kt	84 555	87 424	88 530	89 548	90 838	91 969	93 174	94 313	95 472	96 688	97 915
OECD ¹	kt	23 411	22 828	22 731	22 455	22 417	22 260	22 211	22 023	21 734	21 493	21 260
Developing countries	kt	62 761	66 266	67 466	68 758	70 085	71 375	72 633	73 963	75 416	76 879	78 345
Least Developed Countries	kt	7 548	8 012	8 235	8 477	8 735	8 987	9 233	9 491	9 752	10 014	10 274
Sugar												
World Trade	kt	56 570	58 063	60 039	60 841	61 263	62 091	62 946	63 822	64 790	65 909	67 075
OECD ¹	kt	11 568	11 921	11 855	11 823	11 567	11 382	11 203	11 133	11 073	11 047	11 006
Developing countries	kt	44 753	46 140	48 213	49 007	49 671	50 705	51 776	52 699	53 718	54 881	56 100
Least Developed Countries	kt	9 868	10 036	10 659	11 025	11 332	11 765	12 237	12 726	13 279	13 879	14 513
Beef²												
World Trade	kt	10 102	10 682	10 763	10 804	10 862	10 918	10 990	11 131	11 258	11 379	11 496
OECD ¹	kt	4 349	4 408	4 483	4 529	4 578	4 617	4 662	4 691	4 723	4 751	4 778
Developing countries	kt	6 079	6 678	6 694	6 698	6 714	6 739	6 773	6 896	7 002	7 106	7 206
Least Developed Countries	kt	172	158	167	174	183	193	207	217	230	244	259
Pigmeat²												
World Trade	kt	9 213	10 419	9 946	9 731	9 682	9 655	9 635	9 612	9 652	9 674	9 725
OECD ¹	kt	5 339	5 470	5 514	5 572	5 627	5 679	5 717	5 754	5 792	5 830	5 874
Developing countries	kt	5 352	6 634	6 115	5 832	5 736	5 667	5 620	5 572	5 586	5 582	5 600
Least Developed Countries	kt	155	168	180	197	211	225	242	260	279	299	321
Poultry meat												
World Trade	kt	13 552	14 285	14 391	14 504	14 627	14 776	14 939	15 164	15 401	15 647	15 897
OECD ¹	kt	4 106	4 274	4 335	4 381	4 405	4 428	4 459	4 468	4 478	4 494	4 505
Developing countries	kt	9 089	9 709	9 831	9 928	10 054	10 191	10 333	10 563	10 791	11 030	11 278
Least Developed Countries	kt	933	981	1 033	1 078	1 125	1 171	1 217	1 261	1 305	1 346	1 388
Sheep meat²												
World Trade	kt	1 169	1 223	1 233	1 244	1 255	1 261	1 266	1 272	1 280	1 289	1 297
OECD ¹	kt	469	453	449	450	449	448	446	446	445	444	444
Developing countries	kt	717	788	803	814	824	832	839	846	855	865	874
Least Developed Countries	kt	4	4	4	4	4	4	4	4	4	4	5

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

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Butter												
World Trade	kt	997	1 062	1 080	1 092	1 104	1 116	1 128	1 140	1 153	1 166	1 179
OECD ¹	kt	311	344	348	349	348	346	345	344	344	344	344
Developing countries	kt	610	656	676	691	706	721	736	752	768	784	800
Least Developed Countries	kt	17	18	19	19	19	20	20	21	21	22	22
Cheese												
World Trade	kt	3 116	3 255	3 305	3 357	3 406	3 454	3 503	3 552	3 599	3 647	3 696
OECD ¹	kt	1 682	1 733	1 758	1 783	1 802	1 821	1 840	1 859	1 879	1 899	1 920
Developing countries	kt	1 433	1 488	1 520	1 554	1 592	1 631	1 670	1 709	1 746	1 785	1 824
Least Developed Countries	kt	29	33	34	35	37	39	41	44	46	49	52
Whole milk powder												
World Trade	kt	2 637	2 677	2 704	2 720	2 747	2 775	2 805	2 835	2 866	2 897	2 929
OECD ¹	kt	153	151	147	140	139	137	136	134	133	132	132
Developing countries	kt	2 502	2 532	2 564	2 586	2 614	2 643	2 674	2 705	2 737	2 768	2 800
Least Developed Countries	kt	230	238	244	250	258	265	273	281	289	297	305
Skim milk powder												
World Trade	kt	2 672	2 736	2 779	2 841	2 896	2 954	3 014	3 075	3 137	3 201	3 265
OECD ¹	kt	615	658	651	657	661	666	671	676	681	687	692
Developing countries	kt	2 317	2 386	2 438	2 498	2 554	2 613	2 673	2 735	2 796	2 860	2 924
Least Developed Countries	kt	154	164	170	177	184	192	200	208	216	224	233
Fish												
World Trade	kt	42 928	43 942	43 979	44 483	44 830	45 221	45 469	45 672	46 118	46 404	46 721
OECD	kt	23 164	23 055	23 037	23 310	23 356	23 463	23 459	23 588	23 647	23 734	23 883
Developing countries	kt	20 345	21 283	21 415	21 713	21 981	22 279	22 538	22 672	23 048	23 172	23 329
Least Developed Countries	kt	1 435	1 544	1 547	1 572	1 594	1 613	1 636	1 656	1 690	1 720	1 739
Fishmeal²												
World Trade	kt	3 253	3 241	3 098	3 184	3 189	3 276	3 287	3 190	3 309	3 320	3 379
OECD	kt	1 084	1 208	1 107	1 145	1 122	1 139	1 130	1 075	1 138	1 121	1 121
Developing countries	kt	2 388	2 285	2 244	2 278	2 308	2 387	2 409	2 375	2 431	2 466	2 533
Least Developed Countries	kt	33	26	26	26	27	28	29	29	30	31	32
Fish oil³												
World Trade	kt	841	910	901	938	960	973	987	982	1 012	1 041	1 050
OECD	kt	679	753	741	772	788	796	805	798	821	844	850
Developing countries	kt	284	293	294	305	317	324	331	329	342	355	362
Least Developed Countries	kt	4	3	3	3	3	3	3	3	3	3	3
Ethanol												
World Trade	kt	11 148	10 603	10 483	10 385	10 235	10 129	10 028	9 924	9 847	9 765	9 687
OECD ¹	kt	6 687	7 064	7 020	6 972	6 847	6 764	6 681	6 586	6 506	6 415	6 321
Developing countries	kt	5 381	4 573	4 476	4 419	4 396	4 375	4 360	4 353	4 359	4 369	4 388
Least Developed Countries	kt	5	1	1	1	1	1	1	1	1	1	1
Biodiesel												
World Trade	kt	6 838	7 053	6 855	6 739	6 493	6 272	6 082	5 907	5 738	5 585	5 412
OECD ¹	kt	5 952	5 832	5 665	5 565	5 325	5 105	4 921	4 753	4 587	4 438	4 274
Developing countries	kt	886	1 221	1 190	1 173	1 167	1 167	1 161	1 155	1 150	1 147	1 138
Least Developed Countries	kt	0	0	0	0	0	0	0	0	0	0	0
Cotton												
World Trade	kt	9 097	9 164	9 469	9 803	10 055	10 207	10 409	10 559	10 760	10 966	11 186
OECD ¹	kt	1 446	1 413	1 474	1 492	1 520	1 540	1 564	1 585	1 607	1 634	1 660
Developing countries	kt	8 689	8 759	9 047	9 388	9 646	9 797	9 999	10 147	10 349	10 553	10 773
Least Developed Countries	kt	1 669	1 691	1 760	1 831	1 906	1 978	2 054	2 127	2 207	2 290	2 379
Roots and tubers												
World Trade	kt	16 915	17 414	17 861	18 136	18 484	18 822	19 176	19 529	19 914	20 300	20 728
OECD ¹	kt	2 986	3 005	3 044	3 049	3 065	3 068	3 077	3 090	3 100	3 113	3 117
Developing countries	kt	14 547	14 984	15 400	15 677	16 003	16 346	16 689	17 034	17 412	17 793	18 221
Least Developed Countries	kt	222	218	224	226	239	253	277	312	371	462	619

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 2017-19est: Data for 2019 are estimated.

1. Excludes Iceland but includes all EU member countries.
2. Excludes trade of live animals.
3. Data are in product weight.

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.12.2. World trade projections, exports

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Wheat												
OECD ¹	kt	90 707	99 713	101 095	102 071	103 329	104 388	105 451	106 513	107 577	108 700	109 832
Developing countries	kt	23 983	24 518	24 571	24 578	24 808	25 241	25 541	25 842	26 146	26 523	26 888
Least Developed Countries	kt	111	105	104	102	100	98	96	95	93	91	90
Maize												
OECD ¹	kt	60 812	59 240	60 875	62 049	63 263	64 354	65 187	66 052	66 933	67 819	68 809
Developing countries	kt	66 125	68 140	69 917	71 493	73 300	74 798	76 269	77 699	79 141	80 610	82 105
Least Developed Countries	kt	3 169	3 336	3 420	3 454	3 428	3 351	3 287	3 236	3 190	3 153	3 122
Other coarse grains												
OECD ¹	kt	25 379	25 920	26 019	25 970	26 292	26 633	26 857	27 232	27 448	27 652	27 897
Developing countries	kt	4 967	4 910	4 964	4 922	4 795	4 714	4 667	4 622	4 623	4 649	4 683
Least Developed Countries	kt	702	717	758	773	697	628	559	484	439	415	400
Rice												
OECD ¹	kt	3 977	4 168	4 234	4 275	4 301	4 348	4 367	4 405	4 463	4 506	4 563
Developing countries	kt	43 136	44 664	46 135	47 152	48 332	49 766	51 275	52 683	54 186	55 715	57 309
Least Developed Countries	kt	4 607	4 536	4 976	5 412	5 927	6 169	6 436	6 704	6 990	7 311	7 639
Soybean												
OECD ¹	kt	55 661	52 011	57 047	57 776	58 484	59 166	59 570	60 232	60 990	61 775	62 599
Developing countries	kt	88 581	93 721	94 924	96 382	97 803	99 142	100 485	101 978	103 277	104 516	105 701
Least Developed Countries	kt	31	21	20	19	19	19	19	18	18	18	18
Other oilseeds												
OECD ¹	kt	13 546	13 800	14 103	14 142	14 406	14 669	14 866	15 045	15 252	15 457	15 662
Developing countries	kt	2 754	2 540	2 499	2 540	2 555	2 587	2 626	2 668	2 709	2 752	2 799
Least Developed Countries	kt	148	170	155	150	143	141	141	138	136	132	129
Protein meals												
OECD ¹	kt	19 807	19 306	19 050	19 000	18 929	18 873	18 804	18 734	18 645	18 565	18 474
Developing countries	kt	63 513	64 689	65 058	65 646	66 349	67 000	67 615	68 328	68 985	69 636	70 266
Least Developed Countries	kt	350	379	372	371	364	358	353	348	346	343	340
Vegetable oils												
OECD ¹	kt	8 854	8 500	8 621	8 678	8 804	8 876	8 945	9 015	9 074	9 133	9 192
Developing countries	kt	67 872	70 323	71 160	71 945	72 952	73 846	74 807	75 707	76 637	77 622	78 621
Least Developed Countries	kt	479	467	453	439	425	411	399	387	376	365	355
Sugar												
OECD ¹	kt	9 347	8 512	8 680	8 663	8 764	9 013	9 210	9 388	9 581	9 695	9 789
Developing countries	kt	50 568	52 804	54 808	55 601	55 855	56 367	56 959	57 528	58 177	59 068	60 009
Least Developed Countries	kt	2 291	1 527	1 301	1 191	1 035	940	826	721	658	615	579
Beef²												
OECD ¹	kt	5 096	5 131	5 160	5 177	5 211	5 241	5 321	5 413	5 498	5 571	5 644
Developing countries	kt	4 995	5 546	5 587	5 633	5 629	5 643	5 638	5 676	5 711	5 754	5 801
Least Developed Countries	kt	11	11	11	10	10	10	10	10	9	9	9
Pigmeat²												
OECD ¹	kt	8 437	9 478	8 916	8 656	8 613	8 583	8 570	8 553	8 601	8 625	8 680
Developing countries	kt	1 123	1 296	1 303	1 312	1 311	1 307	1 297	1 286	1 271	1 261	1 250
Least Developed Countries	kt	0	0	0	0	0	0	0	0	0	0	0
Poultry meat												
OECD ¹	kt	7 067	7 393	7 399	7 402	7 426	7 455	7 497	7 579	7 661	7 751	7 845
Developing countries	kt	7 319	7 687	7 761	7 858	7 950	8 069	8 189	8 330	8 483	8 635	8 786
Least Developed Countries	kt	23	26	25	25	24	24	23	23	23	22	22
Sheep meat²												
OECD ¹	kt	1 114	1 126	1 140	1 156	1 168	1 174	1 178	1 181	1 187	1 194	1 200
Developing countries	kt	78	69	66	62	60	59	59	58	58	58	58
Least Developed Countries	kt	3	2	2	2	2	2	2	2	2	2	2
Butter												
OECD ¹	kt	831	843	863	882	899	915	930	945	959	973	986
Developing countries	kt	106	117	114	107	101	96	92	88	86	84	83
Least Developed Countries	kt	2	2	2	2	2	2	2	2	2	1	1
Cheese												
OECD ¹	kt	2 466	2 523	2 577	2 632	2 679	2 729	2 779	2 827	2 874	2 921	2 968
Developing countries	kt	518	500	495	494	496	495	494	494	494	494	495
Least Developed Countries	kt	0	0	0	0	0	0	0	0	0	0	0
Whole milk powder												
OECD ¹	kt	1 872	1 921	1 940	1 947	1 967	1 989	2 012	2 036	2 061	2 085	2 110
Developing countries	kt	664	732	740	748	752	757	761	766	770	775	779
Least Developed Countries	kt	8	7	7	7	7	7	7	6	6	6	6
Skim milk powder												
OECD ¹	kt	2 382	2 400	2 435	2 498	2 551	2 608	2 668	2 728	2 789	2 851	2 914
Developing countries	kt	288	308	309	307	306	305	303	302	301	301	300
Least Developed Countries	kt	5	4	4	4	4	4	4	3	3	3	3

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

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Fish³												
OECD	kt	13 189	13 486	13 449	13 549	13 677	13 798	13 858	13 845	14 037	14 141	14 224
Developing countries	kt	27 725	27 390	27 543	28 142	28 480	28 916	29 258	29 517	30 024	30 386	30 803
Least Developed Countries	kt	1 889	1 934	1 950	1 933	1 923	1 918	1 911	1 910	1 894	1 884	1 888
Fishmeal⁴												
OECD	kt	816	892	829	839	848	865	885	881	895	914	918
Developing countries	kt	2 273	2 233	2 114	2 212	2 209	2 300	2 307	2 194	2 335	2 341	2 404
Least Developed Countries	kt	172	163	167	170	172	174	178	182	184	186	187
Fish oil⁴												
OECD	kt	462	520	513	507	518	514	526	536	529	542	544
Developing countries	kt	457	458	452	483	499	505	513	500	529	552	555
Least Developed Countries	kt	40	41	42	42	43	43	43	44	44	45	45
Ethanol												
OECD ¹	kt	7 034	6 729	6 574	6 446	6 282	6 160	6 048	5 936	5 851	5 769	5 694
Developing countries	kt	3 306	3 526	3 563	3 592	3 604	3 619	3 630	3 636	3 644	3 645	3 642
Least Developed Countries	kt	1	1	1	1	1	1	1	1	1	1	1
Biodiesel												
OECD ¹	kt	2 626	2 721	2 531	2 450	2 272	2 112	1 971	1 845	1 734	1 641	1 555
Developing countries	kt	3 530	3 349	3 342	3 305	3 236	3 176	3 127	3 078	3 019	2 960	2 872
Least Developed Countries	kt	0	0	0	0	0	0	0	0	0	0	0
Cotton												
OECD ¹	kt	4 650	4 363	4 498	4 627	4 779	4 853	4 952	5 015	5 099	5 180	5 277
Developing countries	kt	4 200	4 667	4 855	5 075	5 204	5 302	5 424	5 528	5 664	5 808	5 951
Least Developed Countries	kt	1 120	1 264	1 306	1 350	1 395	1 441	1 490	1 541	1 593	1 646	1 699
Roots and tubers												
OECD ¹	kt	1 710	1 741	1 726	1 743	1 756	1 787	1 813	1 831	1 861	1 880	1 916
Developing countries	kt	11 469	11 786	12 241	12 493	12 828	13 135	13 464	13 799	14 156	14 524	14 917
Least Developed Countries	kt	134	144	141	141	136	132	126	120	114	108	103

Note: Average 2017-19est: Data for 2019 are estimated.

1. Excludes Iceland 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 (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.13.1. Wheat projections: Production and trade

Marketing year

	PRODUCTION (kt)		Growth (%) ⁴		IMPORTS (kt)		Growth (%) ⁴		EXPORTS (kt)		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	752 549	838 510	1.61	1.02	172 945	212 482	2.94	1.54	173 130	212 482	3.04	1.54
NORTH AMERICA	81 946	88 273	-0.14	0.34	3 709	3 706	1.25	0.75	48 940	51 280	-0.10	0.36
Canada	31 642	34 863	2.86	0.70	107	112	6.79	-0.15	23 384	25 217	3.59	0.72
United States	50 304	53 411	-1.62	0.11	3 602	3 595	1.10	0.78	25 556	26 063	-2.59	0.02
LATIN AMERICA	31 663	37 063	2.67	1.28	24 496	26 558	1.65	0.60	15 301	18 309	5.38	1.01
Argentina	19 516	22 249	6.54	1.00	3	3	0.00	0.00	13 320	15 731	12.46	0.99
Brazil	5 280	6 518	-0.38	1.72	7 135	7 434	-0.18	0.33	425	527	-17.13	0.00
Chile	1 440	1 721	0.22	1.57	1 248	1 082	6.55	-1.19	1	0	..	..
Colombia	5	8	-17.63	2.17	1 785	2 006	3.22	1.39	9	6	13.16	-1.37
Mexico	3 246	3 974	-1.02	1.89	4 968	5 525	3.10	0.58	848	1 159	6.17	2.42
Paraguay	1 029	1 163	-4.26	1.46	1	1	-34.62	-0.12	409	559	-8.44	1.54
Peru	192	251	-2.00	2.47	2 108	2 437	2.85	1.36	10	9	7.65	-1.21
EUROPE	260 386	290 898	3.14	1.01	10 152	9 199	0.20	-0.76	81 018	107 181	10.01	1.97
European Union ¹	133 555	138 702	1.07	0.39	5 635	5 826	-1.41	0.04	24 969	33 053	2.24	0.85
United Kingdom	14 742	17 302	0.51	1.21	1 941	1 198	4.65	-2.88	713	1 504	-11.79	4.09
Russia	77 880	90 891	7.73	1.49	273	335	36.24	1.23	36 661	44 720	22.08	2.12
Ukraine	26 255	34 098	5.19	1.96	26	15	-11.17	0.13	17 052	25 136	18.14	2.88
AFRICA	27 721	29 663	1.97	0.91	47 571	62 681	2.23	2.15	1 032	1 039	-3.29	0.29
Egypt	8 667	10 068	1.19	1.47	12 467	15 321	2.83	1.43	0	0	..	..
Ethiopia	4 760	5 138	6.41	0.60	1 400	2 954	4.44	6.25	0	0	-53.63	..
Nigeria	70	92	-7.57	1.41	4 667	5 910	2.03	2.12	600	487	3.68	-2.08
South Africa	1 736	1 876	0.23	0.16	1 725	2 159	-0.67	3.00	113	285	-11.27	9.92
ASIA	331 867	365 602	1.30	1.11	86 120	109 357	4.22	1.70	16 219	16 937	-0.21	1.67
China ²	133 119	135 982	1.64	0.61	3 453	9 632	8.91	4.73	346	208	-4.49	-1.77
India	100 190	115 488	1.92	1.49	553	3	9.49	-2.12	512	607	-3.81	3.25
Indonesia	0	0	..	..	11 148	13 606	8.17	1.97	92	82	14.42	-1.93
Iran	13 467	13 132	4.33	-0.15	64	3 150	-30.95	7.74	195	1	-4.49	22.03
Japan	842	898	2.55	0.45	5 795	5 595	-0.65	-0.12	0	0	..	..
Kazakhstan	13 417	15 136	0.29	1.39	60	60	281.33	0.39	7 700	8 400	0.37	1.86
Korea	26	21	-5.39	1.49	3 981	5 497	-2.36	1.90	50	55	0.00	0.77
Malaysia	0	0	..	..	1 544	1 694	1.16	0.53	139	142	8.07	-0.53
Pakistan	25 648	30 184	0.87	1.56	6	6	-42.10	-0.60	830	824	-0.08	7.09
Philippines	0	0	..	..	6 803	9 263	9.80	2.11	46	40	556.62	-2.06
Saudi Arabia	403	690	-26.58	-0.15	3 177	3 575	5.26	1.88	0	0	..	..
Thailand	1	2	0.65	7.17	3 077	4 281	6.45	2.15	15	12	6.05	-2.11
Turkey	20 167	23 699	-0.37	1.44	6 235	5 437	6.65	-1.68	4 552	5 034	7.49	1.70
Viet Nam	0	0	..	..	4 173	5 338	9.70	2.68	45	37	72.08	-2.61
OCEANIA	18 967	27 011	-4.50	2.04	896	981	3.95	1.07	10 620	17 737	-8.36	3.33
Australia	18 580	26 571	-4.55	2.06	30	28	11.21	0.11	10 620	17 737	-8.36	3.33
New Zealand	387	440	-1.49	1.00	537	576	6.40	1.07	0	0	-23.63	..
DEVELOPED COUNTRIES	388 579	438 111	1.63	0.97	30 717	30 636	0.64	0.16	149 147	185 594	3.23	1.61
DEVELOPING COUNTRIES	363 970	400 399	1.58	1.08	142 228	181 846	3.48	1.80	23 983	26 888	2.05	1.10
LEAST DEVELOPED COUNTRIES (LDC)	8 641	10 309	1.26	1.65	17 255	24 280	5.79	2.71	111	90	-2.43	-1.76
OECD³	275 947	302 701	0.07	0.66	38 621	39 618	1.30	0.17	90 707	109 832	-0.76	1.06
BRICS	318 205	350 755	2.90	1.14	13 139	19 563	2.19	2.52	38 056	46 347	14.57	2.12

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.13.2. Wheat projections: Consumption, food

Marketing year

	CONSUMPTION (kt)		Growth (%) ⁴		FOOD (kt)		Growth (%) ⁴		FOOD (kg/cap)		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	747 447	833 844	1.41	1.00	511 511	562 625	1.25	0.84	67.3	66.6	0.08	-0.09
NORTH AMERICA	39 090	40 595	-0.63	0.22	29 035	29 996	0.35	0.35	79.7	77.2	-0.38	-0.22
Canada	8 726	9 733	0.74	0.76	2 962	3 075	0.97	0.39	79.9	75.8	-0.04	-0.40
United States	30 364	30 862	-0.99	0.06	26 073	26 922	0.28	0.35	79.7	77.4	-0.42	-0.20
LATIN AMERICA	40 657	45 256	1.69	0.98	35 960	40 244	1.48	1.01	55.8	57.2	0.42	0.23
Argentina	5 865	6 523	1.30	0.94	5 265	5 916	1.16	1.04	118.7	121.5	0.15	0.20
Brazil	11 991	13 405	1.24	1.00	11 414	12 827	1.17	1.04	54.5	57.5	0.33	0.50
Chile	2 811	2 801	3.85	0.37	1 992	2 024	1.13	0.02	109.5	103.6	0.28	-0.60
Colombia	1 854	1 994	3.26	1.40	1 692	1 807	2.70	1.40	34.2	34.2	1.77	0.82
Mexico	7 382	8 351	0.99	1.05	6 395	7 334	2.21	1.22	50.7	52.5	0.95	0.31
Paraguay	497	596	0.87	1.44	360	414	1.62	1.28	52.3	53.3	0.31	0.21
Peru	2 287	2 674	2.60	1.46	2 150	2 501	2.81	1.42	66.1	68.6	1.51	0.40
EUROPE	189 177	192 301	0.61	0.38	80 280	80 616	0.14	0.03	107.5	108.4	-0.03	0.10
European Union ¹	112 517	110 965	0.34	0.21	49 424	49 726	0.12	0.06	111.2	112.4	-0.02	0.14
United Kingdom	15 603	17 023	1.58	0.68	6 897	7 726	1.19	1.08	102.7	110.0	0.50	0.70
Russia	43 298	46 373	2.29	0.83	14 680	14 468	0.31	-0.17	100.7	100.6	0.11	0.00
Ukraine	9 180	8 984	-4.46	-0.30	4 657	4 104	-1.36	-1.28	105.8	99.0	-0.87	-0.73
AFRICA	75 560	91 009	2.70	1.75	63 884	78 185	2.60	1.81	50.1	47.4	0.01	-0.52
Egypt	21 599	25 340	2.29	1.50	18 500	21 969	2.22	1.49	186.2	186.1	0.13	-0.04
Ethiopia	6 244	8 074	5.76	2.32	5 110	6 717	5.14	2.38	47.5	49.1	2.51	0.19
Nigeria	4 144	5 508	1.59	2.59	3 942	5 264	2.99	2.62	20.1	20.4	0.32	0.10
South Africa	3 311	3 745	0.76	1.15	3 249	3 705	1.09	1.15	56.6	57.9	-0.25	0.20
ASIA	392 727	454 454	1.71	1.22	299 580	330 462	1.34	0.85	66.1	67.3	0.33	0.14
China ²	125 475	143 464	0.48	0.96	91 167	94 680	0.41	0.25	63.9	64.7	-0.11	0.06
India	97 798	113 729	2.61	1.27	81 128	90 371	1.49	0.92	59.9	60.2	0.30	0.01
Indonesia	11 101	13 501	8.27	2.00	6 997	8 649	3.28	1.99	26.2	29.5	2.07	1.14
Iran	14 743	16 280	0.87	0.99	13 643	14 865	1.20	0.73	166.4	168.0	0.01	0.10
Japan	6 525	6 496	-0.38	-0.13	5 178	5 000	-0.54	-0.29	40.7	41.2	-0.39	0.16
Kazakhstan	6 454	6 775	-1.07	0.93	2 614	2 863	1.12	0.79	142.1	142.0	-0.31	0.00
Korea	3 891	5 461	-2.48	1.81	2 442	2 519	0.63	0.29	47.7	49.2	0.25	0.30
Malaysia	1 455	1 550	3.08	0.60	1 015	1 047	2.05	0.15	31.7	28.7	0.43	-1.01
Pakistan	25 691	29 349	1.38	1.43	24 949	28 792	2.01	1.41	124.2	119.6	-0.04	-0.20
Philippines	6 690	9 195	9.66	2.12	2 560	3 189	2.32	1.86	24.0	25.7	0.70	0.49
Saudi Arabia	3 633	4 212	1.27	1.47	3 307	3 899	2.50	1.50	98.6	99.8	0.02	0.18
Thailand	3 030	4 224	7.70	2.17	1 145	1 284	2.20	0.96	16.6	18.4	1.85	0.92
Turkey	22 122	24 069	0.84	0.72	17 162	18 435	1.53	0.51	209.6	209.7	-0.03	0.01
Viet Nam	4 333	5 293	11.41	2.73	1 662	2 121	4.39	2.34	17.2	20.1	3.27	1.52
OCEANIA	10 237	10 227	4.58	0.52	2 773	3 121	1.44	1.05	68.5	67.7	-0.08	-0.11
Australia	8 988	8 838	4.90	0.44	2 043	2 303	1.43	1.06	82.1	82.5	-0.01	0.05
New Zealand	918	1 016	3.43	1.04	415	462	1.29	0.97	87.5	89.9	0.27	0.25
DEVELOPED COUNTRIES	273 790	282 305	0.47	0.45	134 447	137 970	0.33	0.24	94.5	94.6	-0.10	0.04
DEVELOPING COUNTRIES	473 657	551 539	1.99	1.30	377 064	424 655	1.59	1.04	61.0	60.8	0.24	-0.05
LEAST DEVELOPED COUNTRIES (LDC)	26 736	34 353	4.39	2.37	22 698	29 643	4.14	2.51	26.3	26.9	1.73	0.28
OECD³	225 455	231 833	0.46	0.39	124 709	129 623	0.58	0.36	90.3	90.5	0.02	0.07
BRICS	281 874	320 716	1.50	1.05	201 639	216 051	0.88	0.56	63.1	63.6	0.06	0.03

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.14.1. Maize projections: Production and trade

Marketing year

	PRODUCTION (kt)		Growth (%) ⁴		IMPORTS (kt)		Growth (%) ⁴		EXPORTS (kt)		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	1 122 085	1 315 199	3.03	1.43	160 262	194 305	6.52	1.93	158 527	194 305	6.58	1.93
NORTH AMERICA	374 808	409 688	2.22	0.71	3 134	2 800	5.40	-1.19	56 112	62 522	5.50	1.46
Canada	13 795	15 350	1.74	0.95	2 169	1 770	12.28	-1.81	1 621	1 786	4.80	2.12
United States	361 013	394 338	2.24	0.70	965	1 030	-0.22	-0.03	54 491	60 736	5.66	1.44
LATIN AMERICA	183 982	228 587	4.93	1.79	37 832	44 727	7.33	1.76	60 012	77 429	9.13	2.47
Argentina	51 153	63 606	10.87	1.84	4	4	0.00	0.00	28 176	34 057	11.68	1.43
Brazil	88 506	113 762	3.87	2.00	962	639	5.20	-3.53	28 907	38 908	8.90	3.22
Chile	1 012	1 134	-5.24	1.58	2 119	2 034	12.72	2.25	22	20	-16.74	-0.87
Colombia	1 242	1 686	-4.10	2.84	5 253	6 320	6.11	1.56	1	1	-0.84	-0.12
Mexico	26 998	29 807	3.64	0.67	16 572	19 679	10.18	1.91	1 057	1 300	24.82	3.78
Paraguay	5 097	6 868	6.07	2.88	12	10	-3.63	-0.10	1 715	2 970	-3.68	5.61
Peru	1 537	1 907	-0.72	2.10	3 758	5 437	9.91	3.44	10	10	5.23	-0.44
EUROPE	121 107	138 763	2.96	1.31	21 505	23 509	10.89	1.21	34 481	47 702	12.20	2.40
European Union ¹	67 002	69 778	0.49	0.79	18 213	20 382	11.61	1.37	3 488	4 817	2.62	3.17
United Kingdom	0	0	..	..	2 360	2 500	9.38	0.62	0	0	..	..
Russia	12 542	17 935	12.78	2.82	40	101	-6.15	4.06	4 512	8 331	40.66	3.53
Ukraine	31 490	38 908	8.12	1.47	44	39	-1.69	-0.14	24 574	30 965	14.13	1.78
AFRICA	79 974	96 628	2.30	1.66	22 486	30 240	5.84	3.40	3 912	3 535	-5.01	-1.75
Egypt	7 283	7 740	0.11	0.30	9 433	13 059	6.24	3.71	0	0	..	..
Ethiopia	9 096	10 139	6.92	1.05	0	0	-83.96	..	800	54	4.22	-24.71
Nigeria	11 039	12 775	3.45	1.32	400	1 426	15.95	14.72	150	80	-5.99	-6.59
South Africa	12 238	13 916	0.40	1.37	395	466	-3.29	-0.28	1 690	1 703	-4.00	0.28
ASIA	361 621	440 831	3.24	1.96	75 229	92 911	5.48	1.87	3 947	3 033	-5.26	-2.44
China ²	259 005	314 027	3.10	2.08	4 152	7 198	7.87	3.45	23	17	-14.92	4.01
India	28 127	34 403	3.32	1.72	116	111	44.32	-0.85	824	399	-22.40	-5.42
Indonesia	26 361	33 653	5.23	1.52	705	246	-18.65	2.66	192	203	26.37	-0.70
Iran	1 074	1 292	-7.35	1.32	9 094	12 149	13.20	2.51	0	0	..	..
Japan	0	0	..	..	15 710	15 636	0.24	-0.01	0	0	..	..
Kazakhstan	858	1 111	8.44	1.44	5	5	105.34	2.23	55	187	25.77	4.77
Korea	74	69	-0.48	-0.91	9 970	11 365	2.68	0.91	0	0	..	..
Malaysia	81	100	3.76	1.70	3 758	4 457	2.63	2.05	19	16	12.88	-2.01
Pakistan	6 170	7 864	6.11	2.12	18	37	5.42	4.85	33	15	189.06	-6.26
Philippines	7 796	9 612	1.64	2.00	674	806	31.61	1.64	0	0	..	..
Saudi Arabia	84	102	-0.24	1.36	4 561	6 160	12.43	1.67	0	0	..	..
Thailand	4 983	6 270	0.10	2.00	322	562	2.41	1.80	207	187	-0.69	-1.51
Turkey	5 867	6 970	4.13	1.47	2 667	3 573	20.09	3.07	70	66	19.90	-0.61
Viet Nam	4 986	5 331	0.55	0.37	9 594	15 393	31.04	4.66	255	171	52.18	-4.15
OCEANIA	594	701	-0.80	0.81	77	117	54.10	1.42	63	84	-2.93	1.42
Australia	397	471	-0.56	0.69	2	2	17.50	0.00	59	80	-2.54	1.49
New Zealand	187	217	-1.25	1.01	73	115	85.54	1.54	3	4	-6.76	0.00
DEVELOPED COUNTRIES	511 386	566 435	2.34	0.87	42 913	44 909	5.14	0.59	92 402	112 199	6.76	1.83
DEVELOPING COUNTRIES	610 699	748 764	3.66	1.88	117 349	149 395	7.05	2.37	66 125	82 105	6.83	2.07
LEAST DEVELOPED COUNTRIES (LDC)	41 888	53 328	3.67	2.10	3 659	3 975	15.03	1.50	3 169	3 122	2.50	-1.06
OECD³	477 819	520 071	2.00	0.73	78 161	86 850	6.19	1.14	60 812	68 809	5.29	1.60
BRICS	400 418	494 043	3.40	2.04	5 665	8 515	6.47	2.44	35 956	49 358	6.16	3.05

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	1 141 538	1 313 210	3.39	1.24	675 123	791 278	3.82	1.65	18.7	19.5	0.77	0.40
NORTH AMERICA	325 458	349 712	1.60	0.64	144 807	163 427	2.19	1.22	18.3	17.2	-0.80	-0.63
Canada	14 575	15 323	2.68	0.52	9 170	9 649	4.10	0.95	37.9	28.0	-4.08	-3.01
United States	310 883	334 390	1.55	0.64	135 637	153 779	2.07	1.24	16.1	15.9	-0.06	-0.10
LATIN AMERICA	162 917	195 242	4.40	1.52	107 299	128 673	4.95	1.68	53.5	55.5	0.61	0.34
Argentina	22 853	29 448	10.97	2.35	17 112	22 659	13.20	2.51	36.2	37.1	1.44	0.20
Brazil	61 490	75 206	2.59	1.36	44 724	52 728	1.99	1.47	24.6	24.9	0.34	0.12
Chile	3 014	3 106	3.57	1.47	2 419	2 487	4.36	1.48	21.4	23.7	0.59	1.00
Colombia	6 401	7 983	3.66	1.85	3 999	5 112	3.32	2.36	47.4	53.1	3.67	0.42
Mexico	42 413	48 125	5.49	1.08	23 853	26 931	9.70	0.99	135.9	140.5	0.05	0.32
Paraguay	3 493	3 843	14.81	1.51	686	753	5.91	2.32	54.3	53.8	-0.56	0.37
Peru	5 288	7 321	5.81	3.08	4 557	6 540	6.24	3.32	15.9	16.5	2.09	0.48
EUROPE	105 851	114 541	1.90	0.76	82 416	89 253	1.94	0.73	8.9	9.1	0.85	0.20
European Union ¹	79 907	85 348	1.77	0.67	62 375	66 577	1.94	0.56	10.5	10.6	0.06	0.07
United Kingdom	2 219	2 558	9.86	0.70	890	1 133	6.86	1.58	11.4	12.9	10.27	0.25
Russia	8 005	9 674	8.06	1.97	6 280	8 027	6.81	2.43	1.4	1.5	3.72	0.86
Ukraine	7 737	7 979	0.23	0.31	5 934	6 061	0.75	0.22	10.7	11.3	-0.47	0.56
AFRICA	98 394	122 740	3.46	2.20	33 814	43 897	4.05	2.59	40.2	39.9	0.10	-0.07
Egypt	16 583	20 743	3.05	2.34	11 850	15 580	3.59	2.90	41.6	38.4	-0.50	-0.65
Ethiopia	8 013	10 059	6.89	1.89	1 567	1 989	14.63	2.14	47.2	48.2	1.87	0.02
Nigeria	10 949	14 061	4.01	2.23	2 067	2 408	11.10	1.79	31.7	31.1	-0.75	0.00
South Africa	11 744	12 655	1.45	1.46	5 282	6 747	0.63	2.35	90.3	86.6	0.08	-0.42
ASIA	448 308	530 241	4.86	1.45	306 355	365 465	4.83	1.96	9.4	9.4	0.79	-0.02
China ²	277 974	321 049	4.92	1.23	191 939	217 681	4.20	1.80	9.9	9.9	1.35	0.00
India	27 467	34 091	6.33	1.84	13 331	18 378	8.25	2.67	6.4	6.3	0.21	-0.22
Indonesia	27 021	33 650	3.38	1.60	12 323	17 080	9.62	2.45	29.6	28.8	0.34	-0.14
Iran	10 002	13 394	8.62	2.38	9 777	13 168	8.85	2.44	0.9	0.8	-1.17	-1.72
Japan	15 769	15 649	0.26	0.01	11 952	11 885	0.72	-0.13	0.8	0.9	0.53	0.45
Kazakhstan	797	926	7.96	1.06	687	796	7.66	1.01	0.5	0.6	-1.41	0.96
Korea	10 298	11 433	3.03	1.01	8 000	9 133	3.59	1.28	2.0	2.0	0.88	0.18
Malaysia	3 773	4 536	2.01	2.06	3 510	4 265	1.72	2.17	2.0	2.0	2.47	0.07
Pakistan	6 439	7 862	7.44	2.14	3 583	4 783	11.74	2.60	8.2	8.5	1.36	0.52
Philippines	8 335	10 392	2.22	1.98	5 583	7 209	1.63	2.32	18.2	17.8	0.70	-0.19
Saudi Arabia	4 632	6 257	12.09	1.67	4 426	6 035	11.68	1.70	0.2	0.2	-2.42	-0.99
Thailand	5 097	6 629	0.79	2.11	4 759	6 293	1.13	2.23	1.2	1.1	-0.35	-0.69
Turkey	8 430	10 448	7.10	2.08	6 516	8 486	8.76	2.55	16.0	16.1	0.21	0.20
Viet Nam	14 760	20 536	13.05	3.46	11 249	16 514	11.68	4.04	7.5	8.7	3.28	1.24
OCEANIA	609	735	1.91	0.84	433	562	3.85	1.07	2.3	2.1	-0.90	-0.92
Australia	341	393	0.05	0.53	189	240	2.75	0.85	3.1	2.9	-0.85	-0.89
New Zealand	256	328	4.54	1.20	241	319	4.54	1.22	1.5	1.5	-1.00	0.04
DEVELOPED COUNTRIES	463 971	498 815	1.64	0.68	248 900	276 813	2.03	1.03	13.3	13.3	0.29	-0.03
DEVELOPING COUNTRIES	677 568	814 395	4.73	1.61	426 224	514 465	4.99	2.00	19.9	20.8	0.80	0.41
LEAST DEVELOPED COUNTRIES (LDC)	42 504	53 952	4.63	2.29	10 861	14 294	8.19	2.46	27.1	28.5	0.59	0.52
OECD³	496 761	537 769	2.05	0.72	267 375	298 284	2.80	1.05	24.4	25.8	0.65	0.47
BRICS	386 679	452 674	4.54	1.32	261 556	303 561	3.93	1.82	10.4	10.4	0.75	-0.07

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	289 771	318 900	0.90	0.81	36 158	42 575	3.28	1.28	42 017	48 434	3.28	1.11
NORTH AMERICA	26 334	27 569	2.01	0.18	1 556	1 662	-1.56	0.37	9 293	9 287	3.06	0.26
Canada	13 143	13 795	2.25	0.19	59	67	5.10	0.88	5 620	5 697	3.39	0.30
United States	13 191	13 775	1.81	0.17	1 497	1 594	-1.73	0.35	3 673	3 589	2.71	0.19
LATIN AMERICA	19 337	22 685	-1.67	1.34	1 753	1 761	-11.21	0.41	3 402	4 015	-4.64	1.53
Argentina	7 136	8 422	-2.29	1.14	1	1	0.00	0.00	3 196	3 732	-4.89	1.43
Brazil	3 367	4 079	2.73	1.52	628	730	12.06	1.77	4	3	-6.87	0.23
Chile	787	905	0.59	1.63	94	126	-23.30	1.24	42	48	-9.31	-1.16
Colombia	22	30	-15.69	2.71	319	347	-9.10	0.54	0	0	..	..
Mexico	5 648	6 414	-4.25	1.34	435	350	-20.02	-0.84	1	2	19.32	0.99
Paraguay	108	129	-3.35	1.78	0	0	..	..	2	1	-1.11	-3.04
Peru	253	297	-0.33	1.77	163	143	4.19	-1.04	36	42	392.88	1.05
EUROPE	127 861	136 231	1.09	0.41	2 368	2 196	1.27	-1.27	20 049	24 747	6.47	1.94
European Union ¹	78 489	82 796	0.54	0.08	1 544	1 587	5.33	-0.04	8 824	9 981	2.69	1.19
United Kingdom	7 691	7 441	2.88	-0.13	202	248	-0.12	0.84	1 043	969	3.97	-1.62
Russia	26 088	27 669	4.30	0.87	59	63	-24.10	0.08	5 486	6 961	15.61	2.43
Ukraine	9 753	11 598	-0.21	1.57	17	17	-12.97	-0.10	4 525	6 411	8.16	2.75
AFRICA	55 425	65 466	1.96	1.69	3 840	5 725	6.57	3.43	1 341	540	-1.34	-10.64
Egypt	969	1 157	-0.18	1.64	36	19	-11.59	-2.68	0	0	..	..
Ethiopia	13 347	16 483	4.27	2.26	0	0	-77.22	..	495	10	3.37	-36.02
Nigeria	8 114	9 373	-1.13	1.32	20	21	0.00	0.43	100	84	0.00	-1.30
South Africa	563	638	2.01	1.26	214	222	9.28	-0.51	24	29	-1.15	0.43
ASIA	49 059	53 288	0.07	0.85	26 531	31 103	5.56	1.22	1 771	2 247	8.33	-1.35
China ²	10 076	11 450	1.88	1.60	10 106	11 364	20.03	0.39	90	100	-7.28	2.67
India	17 270	16 008	-2.60	-0.30	182	513	89.59	1.53	136	38	-12.89	-0.76
Indonesia	0	0	..	..	65	79	-6.83	1.68	0	0	..	..
Iran	2 982	3 610	0.37	1.84	2 750	4 229	19.46	3.56	0	0	..	..
Japan	218	220	0.76	-0.34	2 047	1 796	-6.10	-1.43	0	0	..	..
Kazakhstan	4 412	5 083	11.73	0.21	31	10	-2.83	1.79	1 522	2 089	23.01	-1.53
Korea	107	104	3.68	-1.23	114	122	2.44	0.60	0	0	..	..
Malaysia	0	0	..	..	14	15	291.09	2.01	0	0	..	..
Pakistan	514	620	-0.10	1.67	134	162	33.86	2.68	0	0	..	..
Philippines	1	0	8.39	..	39	52	0.45	2.21	0	0	..	..
Saudi Arabia	210	231	6.39	1.38	7 426	8 933	-0.26	2.13	0	0	..	..
Thailand	171	220	0.37	2.45	24	4	0.00	-16.92	2	3	-0.16	3.55
Turkey	7 951	9 404	-0.18	1.52	466	712	18.35	4.53	14	10	-8.96	-0.68
Viet Nam	3	4	9.67	1.69	100	113	6.04	1.23	0	0	..	..
OCEANIA	11 753	13 659	0.41	1.09	110	128	4.83	2.38	6 160	7 599	1.53	1.75
Australia	11 366	13 206	0.47	1.10	0	0	..	..	6 160	7 599	1.53	1.75
New Zealand	384	448	-1.26	0.79	25	23	20.91	0.56	0	0	..	..
DEVELOPED COUNTRIES	173 257	186 004	1.42	0.44	6 763	6 485	-2.17	-0.70	37 050	43 751	4.87	1.34
DEVELOPING COUNTRIES	116 514	132 895	0.18	1.35	29 395	36 091	4.98	1.68	4 967	4 683	-4.48	-0.80
LEAST DEVELOPED COUNTRIES (LDC)	26 588	31 475	2.62	1.56	662	1 313	1.63	8.70	702	400	-3.87	-7.87
OECD³	140 098	149 586	0.64	0.32	7 444	7 759	-5.23	0.18	25 379	27 897	2.46	0.90
BRICS	57 364	59 844	1.18	0.72	11 189	12 892	17.10	0.49	5 739	7 130	12.15	2.40

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	282 625	312 361	0.40	0.80	144 919	158 855	-0.09	0.88	10.4	10.5	-0.16	0.22
NORTH AMERICA	18 846	19 920	0.20	0.15	11 439	12 267	-0.38	0.07	4.2	4.1	-0.11	-0.20
Canada	7 740	8 164	0.08	0.07	7 075	7 561	-0.08	0.14	7.7	7.1	-0.77	-0.78
United States	11 106	11 756	0.25	0.20	4 364	4 707	-1.00	-0.04	3.8	3.8	-0.01	-0.09
LATIN AMERICA	17 675	20 405	-1.96	1.14	11 616	13 607	-4.48	1.39	3.8	3.6	-0.23	-0.73
Argentina	3 935	4 687	2.31	0.74	2 235	2 845	0.07	0.93	17.1	18.2	-1.32	-0.01
Brazil	3 991	4 805	4.36	1.55	2 445	2 839	3.22	1.04	1.8	2.2	2.31	1.92
Chile	845	977	-4.61	1.23	513	612	-8.33	1.46	4.0	4.5	2.83	1.00
Colombia	344	376	-9.81	0.69	20	32	-35.56	2.07	0.6	0.4	-9.81	-1.08
Mexico	6 048	6 759	-6.78	1.22	5 265	6 099	-7.76	1.70	6.2	4.7	2.31	-3.52
Paraguay	106	128	-3.40	1.86	93	107	-4.53	1.95	0.0	0.0	-2.21	-1.07
Peru	381	398	-0.15	0.73	23	34	-3.26	3.25	6.2	5.3	-0.01	-0.61
EUROPE	109 873	113 591	-0.59	0.05	70 930	68 529	-0.65	-0.24	13.5	13.4	-0.87	-0.07
European Union ¹	70 576	74 374	-0.61	-0.09	44 139	41 359	-1.01	-0.68	10.0	10.0	-0.20	0.15
United Kingdom	6 926	6 726	2.02	0.13	3 843	3 695	2.31	0.26	36.0	36.3	0.47	0.10
Russia	20 748	20 714	0.46	0.44	14 630	14 973	1.45	0.61	12.4	11.7	-3.58	-0.87
Ukraine	5 151	5 199	-5.40	0.14	3 410	3 487	-5.56	0.28	17.0	15.9	-2.73	-0.74
AFRICA	57 149	70 265	1.93	1.94	8 572	10 802	0.48	1.96	31.8	31.0	-0.14	-0.12
Egypt	1 005	1 173	-0.60	1.57	650	782	-1.05	1.93	3.0	2.7	-1.72	-0.66
Ethiopia	12 500	16 324	4.02	2.54	600	657	2.64	0.76	92.2	100.4	1.04	0.89
Nigeria	8 001	9 302	-2.16	1.35	273	317	-16.65	1.60	37.2	32.7	-1.80	-1.20
South Africa	760	829	3.74	0.68	130	178	0.57	2.27	2.6	2.4	-1.37	-1.01
ASIA	73 286	81 995	1.71	1.06	38 258	49 213	3.21	2.56	5.3	4.8	-1.36	-0.89
China ²	20 218	22 769	8.19	0.94	7 900	12 225	27.37	5.11	3.3	3.0	0.98	-0.66
India	17 426	16 485	-1.54	-0.24	790	590	2.87	0.01	11.9	10.3	-2.16	-1.20
Indonesia	65	79	-6.83	1.68	0	0	0.00	0.00	0.2	0.3	-7.94	0.83
Iran	5 665	7 806	5.90	2.71	5 488	7 630	6.14	2.78	0.3	0.3	-1.17	-1.73
Japan	2 260	2 028	-5.98	-1.31	1 600	1 434	-8.01	-1.43	4.0	4.2	1.93	0.40
Kazakhstan	2 559	2 973	5.34	1.82	1 699	2 142	4.35	2.16	2.5	2.2	-1.41	-1.05
Korea	221	226	2.93	-0.29	59	60	0.55	0.14	3.2	3.2	3.54	-0.43
Malaysia	13	15	268.61	2.12	12	14	321.76	2.15	0.0	0.0	159.37	0.98
Pakistan	648	782	2.85	1.87	198	263	0.24	2.90	2.0	2.0	2.54	-0.17
Philippines	40	52	0.55	2.18	28	38	-1.40	2.25	0.0	0.1	1.17	1.06
Saudi Arabia	7 802	9 095	0.52	2.05	7 606	8 892	0.53	2.10	2.7	2.4	-2.42	-1.00
Thailand	193	220	0.33	1.39	57	69	0.89	2.17	1.4	1.6	-0.49	0.98
Turkey	8 334	10 078	0.17	1.75	7 281	8 977	0.25	1.92	3.6	3.2	-1.54	-0.89
Viet Nam	103	116	6.13	1.25	0	0	0.00	0.00	0.0	0.0	7.01	1.52
OCEANIA	5 796	6 186	-1.23	0.35	4 104	4 437	-1.84	0.41	6.4	6.7	-2.54	-0.09
Australia	5 301	5 607	-1.31	0.28	3 735	4 005	-1.91	0.36	7.4	7.6	-3.81	-0.55
New Zealand	408	470	-0.84	0.78	350	412	-0.97	0.90	1.7	1.6	-1.00	-0.72
DEVELOPED COUNTRIES	142 494	148 559	-0.45	0.13	91 980	91 682	-0.66	-0.07	8.9	8.6	-0.89	-0.26
DEVELOPING COUNTRIES	140 132	163 802	1.32	1.44	52 939	67 173	0.98	2.34	10.7	10.9	-0.04	0.27
LEAST DEVELOPED COUNTRIES (LDC)	26 376	32 200	2.70	1.89	1 650	1 984	5.91	1.35	23.4	23.0	0.39	0.01
OECD³	121 850	129 376	-0.92	0.17	79 780	80 590	-1.60	-0.02	7.7	7.5	0.05	-0.27
BRICS	63 143	65 601	2.03	0.51	25 895	30 805	5.59	2.22	7.2	6.6	-1.49	-0.86

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.16.1. Rice projections: Production and trade

Marketing year

	PRODUCTION (kt)		Growth (%) ⁴		IMPORTS (kt)		Growth (%) ⁴		EXPORTS (kt)		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	514 978	581 764	0.96	1.02	46 985	61 858	3.75	2.67	47 193	62 066	2.86	2.66
NORTH AMERICA	6 237	7 074	-0.64	0.05	1 294	1 513	3.74	1.31	2 932	3 349	-1.26	0.56
Canada	0	0	..	..	388	462	0.71	1.72	0	0	..	..
United States	6 237	7 074	-0.64	0.05	906	1 052	5.32	1.14	2 932	3 349	-1.26	0.56
LATIN AMERICA	18 469	20 016	0.12	0.77	4 319	4 431	2.89	-0.04	3 449	3 272	1.63	0.70
Argentina	888	893	-1.83	0.31	7	5	-1.61	0.00	399	254	-4.74	-3.13
Brazil	7 897	7 687	-1.10	-0.42	722	655	1.02	-1.22	849	737	0.08	1.08
Chile	111	134	5.30	1.56	151	176	3.09	1.44	4	3	70.42	-0.87
Colombia	1 815	1 998	4.38	0.88	141	209	1.26	1.76	2	1	55.78	-0.13
Mexico	283	215	5.86	-2.18	783	934	2.84	2.20	69	9	32.51	0.00
Paraguay	651	883	13.29	2.43	1	1	3.34	-0.09	618	811	18.00	2.62
Peru	2 190	2 543	1.89	1.80	318	248	10.02	-3.82	67	86	58.80	2.43
EUROPE	2 839	3 008	-0.51	0.60	2 652	2 895	3.52	0.83	676	876	0.59	3.51
European Union ¹	1 758	1 800	-0.30	0.13	1 450	1 648	6.46	1.41	474	631	2.10	3.25
United Kingdom	0	0	..	..	670	681	0.54	0.12	45	25	1.79	-5.00
Russia	1 027	1 149	0.01	1.33	221	240	0.43	0.32	148	214	-2.44	6.53
Ukraine	42	44	-12.22	1.39	82	69	4.51	-1.93	3	2	-17.49	1.81
AFRICA	21 525	25 046	3.18	1.41	17 582	31 208	4.66	5.06	446	189	0.81	-4.00
Egypt	3 744	4 034	0.42	1.54	390	710	24.80	-0.51	48	0	-56.66	..
Ethiopia	109	124	8.35	0.72	522	857	26.35	4.70	0	0	..	..
Nigeria	4 947	6 420	7.98	2.22	2 603	4 589	-0.89	5.58	0	0	..	..
South Africa	2	2	0.00	0.80	937	1 146	1.38	1.98	0	0	..	..
ASIA	465 648	526 285	0.95	1.02	20 579	21 201	3.23	0.81	39 436	54 089	3.64	2.96
China ²	145 906	150 643	0.78	0.26	3 220	4 414	21.91	2.16	2 011	1 730	21.61	-2.33
India	114 977	135 743	1.72	1.58	4	3	19.79	1.30	11 688	18 768	8.95	3.33
Indonesia	46 634	56 357	1.42	0.92	969	9	-9.80	-16.41	3	6	26.44	3.56
Iran	1 954	2 418	4.22	2.07	1 380	1 371	0.07	-2.36	2	1	21.84	0.19
Japan	7 518	7 440	-0.48	-0.30	744	728	-1.01	-0.08	101	156	-5.15	2.19
Kazakhstan	321	365	4.31	1.42	12	9	-7.82	-0.31	94	85	8.66	0.32
Korea	3 896	3 661	-1.00	-0.50	382	429	0.54	-0.01	56	50	37.04	0.00
Malaysia	1 760	2 072	1.13	1.42	997	1 147	0.21	0.69	19	35	53.86	-0.12
Pakistan	7 315	8 597	3.89	1.30	8	8	-25.61	0.00	4 308	5 069	2.80	1.50
Philippines	12 399	14 331	1.17	1.22	2 575	3 442	11.17	1.08	0	0	-13.80	..
Saudi Arabia	0	0	..	..	1 225	1 500	0.57	1.24	0	0	..	..
Thailand	21 411	23 808	-2.12	1.25	326	548	-3.21	4.61	10 092	11 589	2.02	2.81
Turkey	563	688	1.04	1.59	278	309	1.18	0.61	39	47	-6.54	-0.59
Viet Nam	28 368	32 974	0.60	1.42	597	642	-0.11	2.45	6 725	9 019	-1.70	2.59
OCEANIA	261	335	-23.10	2.01	560	610	3.41	0.29	255	292	-13.91	1.50
Australia	252	323	-24.14	2.02	201	208	4.79	-1.00	254	291	-13.93	1.50
New Zealand	0	0	..	..	50	62	2.39	1.50	0	0	..	..
DEVELOPED COUNTRIES	17 576	18 747	-0.88	0.10	6 177	6 891	2.56	0.93	4 057	4 758	-1.89	1.15
DEVELOPING COUNTRIES	497 402	563 017	1.03	1.05	40 808	54 967	3.94	2.91	43 136	57 309	3.45	2.79
LEAST DEVELOPED COUNTRIES (LDC)	78 229	92 696	1.17	1.45	10 923	17 889	5.82	5.59	4 607	7 639	9.90	5.66
OECD³	22 433	23 334	-0.55	-0.03	6 422	7 222	2.64	1.00	3 977	4 563	-1.70	0.94
BRICS	269 810	295 224	1.11	0.83	5 104	6 458	9.75	1.63	14 695	21 449	9.01	2.66

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	511 663	580 764	1.30	1.02	54.5	55.1	-0.01	-0.02
NORTH AMERICA	4 782	5 083	0.98	0.19	13.1	13.1	0.25	-0.39
Canada	388	462	0.71	1.72	10.5	11.4	-0.30	0.92
United States	4 394	4 622	1.01	0.05	13.4	13.3	0.31	-0.50
LATIN AMERICA	19 373	21 140	0.36	0.60	28.2	28.3	-0.76	-0.20
Argentina	539	641	3.02	2.09	10.4	10.9	2.54	1.00
Brazil	7 750	7 604	-1.03	-0.59	37.0	34.1	-1.86	-1.12
Chile	260	307	3.76	1.52	12.0	13.4	2.94	1.01
Colombia	1 919	2 200	2.61	0.99	35.2	38.2	1.07	0.40
Mexico	916	1 140	1.61	0.81	7.3	8.2	0.36	-0.09
Paraguay	84	73	5.16	0.51	6.5	5.5	1.65	-0.96
Peru	2 443	2 700	2.21	1.10	65.6	65.9	0.57	0.10
EUROPE	4 841	5 026	1.45	0.29	6.4	6.7	1.32	0.37
European Union ¹	2 747	2 818	2.30	0.23	6.2	6.4	2.16	0.31
United Kingdom	626	655	0.66	0.38	9.3	9.3	-0.02	0.00
Russia	1 112	1 175	0.69	0.40	7.6	8.2	0.50	0.58
Ukraine	121	111	-3.14	-0.82	2.7	2.6	-2.39	-0.32
AFRICA	38 933	55 815	4.28	3.32	26.9	30.8	2.00	1.16
Egypt	4 146	4 736	1.76	1.30	38.4	37.8	0.14	-0.22
Ethiopia	638	977	21.89	4.10	5.3	6.7	18.52	2.12
Nigeria	7 574	10 960	4.95	3.52	33.5	37.7	2.26	1.16
South Africa	933	1 145	1.91	1.96	15.9	17.6	0.83	1.02
ASIA	443 103	493 047	1.12	0.82	77.6	78.1	-0.09	-0.05
China ²	146 115	153 912	1.45	0.38	76.6	76.5	0.09	0.00
India	99 650	116 872	1.03	1.17	68.5	72.2	-0.07	0.21
Indonesia	47 680	56 073	1.34	1.18	134.0	131.5	-0.04	-0.24
Iran	3 305	3 778	2.42	0.19	35.8	38.2	0.93	-0.47
Japan	8 555	7 843	0.12	-0.78	53.4	51.8	-1.12	-0.21
Kazakhstan	239	288	1.79	1.75	11.5	12.7	0.03	1.00
Korea	4 520	4 039	-0.74	-0.37	61.7	54.1	-2.08	-1.19
Malaysia	2 752	3 180	0.70	1.16	79.8	81.2	-0.26	0.00
Pakistan	3 108	3 526	3.35	1.36	12.5	12.1	0.69	-0.23
Philippines	14 780	17 716	1.94	1.23	118.0	121.1	0.16	-0.20
Saudi Arabia	1 309	1 499	0.88	1.24	38.5	37.9	-1.48	-0.07
Thailand	12 522	12 740	-0.78	0.08	99.0	91.1	-0.04	-1.01
Turkey	794	947	1.44	1.47	9.1	10.1	-0.12	0.99
Viet Nam	22 258	24 552	1.22	1.04	152.9	149.7	-0.72	-0.15
OCEANIA	631	653	-2.69	0.59	15.4	13.9	-4.22	-0.56
Australia	267	239	-7.88	-0.15	10.7	8.6	-9.19	-1.15
New Zealand	50	62	2.39	1.50	10.6	12.1	1.36	0.78
DEVELOPED COUNTRIES	20 388	20 549	0.71	-0.02	13.0	12.9	-0.19	-0.12
DEVELOPING COUNTRIES	491 275	560 215	1.33	1.06	64.1	63.9	-0.13	-0.14
LEAST DEVELOPED COUNTRIES (LDC)	83 930	102 603	1.44	1.79	76.2	73.6	-0.17	-0.39
OECD³	25 710	25 660	0.55	-0.04	16.1	15.7	-0.57	-0.34
BRICS	255 560	280 707	1.20	0.68	66.3	67.8	-0.05	0.07

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ARGENTINA												
Crops export tax	%	8.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Rice export tax	%	8.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
CANADA												
Tariff-quotas ¹												
Wheat	kt	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0
In-quota tariff	%	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Out-of-quota tariff	%	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
Barley	kt	399.0	399.0	399.0	399.0	399.0	399.0	399.0	399.0	399.0	399.0	399.0
In-quota tariff	%	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Out-of-quota tariff	%	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
EUROPEAN UNION^{2,3}												
Voluntary coupled support												
Wheat ⁴	mIn EUR	90.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
Rice ⁵	mIn EUR	55.9	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	bIn EUR	41.6	42.2	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	4 513.2	4 523.2	4 523.2	4 523.2	4 523.2	4 523.2	4 523.2	4 523.2	4 523.2	4 523.2	4 523.2
Coarse grain tariff-quota ¹	kt	4 430.2	4 470.8	4 470.8	4 470.8	4 470.8	4 470.8	4 470.8	4 470.8	4 470.8	4 470.8	4 470.8
JAPAN												
Wheat tariff-quota	kt	5 740.0	5 740.0	5 740.0	5 740.0	5 740.0	5 740.0	5 740.0	5 740.0	5 740.0	5 740.0	5 740.0
In-quota tariff	'000 JPY/t	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Out-of-quota tariff	'000 JPY/t	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
Barley tariff-quota	kt	1 369.0	1 369.0	1 369.0	1 369.0	1 369.0	1 369.0	1 369.0	1 369.0	1 369.0	1 369.0	1 369.0
In-quota tariff	'000 JPY/t	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Out-of-quota tariff	'000 JPY/t	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
Rice tariff-quota	kt	682.2	682.2	682.2	682.2	682.2	682.2	682.2	682.2	682.2	682.2	682.2
In-quota tariff	'000 JPY/t	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Out-of-quota tariff	'000 JPY/t	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0
KOREA												
Wheat tariff	%	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Maize tariff-quota	kt	6 102.0	6 102.0	6 102.0	6 102.0	6 102.0	6 102.0	6 102.0	6 102.0	6 102.0	6 102.0	6 102.0
In-quota tariff	%	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Out-of-quota tariff	%	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7
Barley tariff-quota	kt	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
In-quota tariff	%	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Out-of-quota tariff	%	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.4
Rice quota ⁹	kt	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7
In-quota tariff	%	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
MERCOSUR												
Wheat tariff	%	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Coarse grain tariff ¹⁰	%	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Rice tariff	%	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
MEXICO												
Barley import tariff	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UNITED STATES												
ARC participation rate												
Wheat	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coarse grains	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wheat loan rate	USD/t	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
Maize loan rate	USD/t	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
INDIA												
Minimum support price												
Rice	INR/t	19 706	27 802	28 599	29 434	30 294	31 187	32 095	33 032	33 997	34 990	36 011
Wheat	INR/t	16 918	17 841	18 428	19 032	19 600	20 107	20 502	20 956	21 441	21 940	22 439
Wheat tariff	%	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
Rice tariff	%	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
RUSSIA												
Wheat ad valorem import tax	%	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Rice tariff equivalent of import barriers	%	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Coarse grains tariff equivalent of import barriers	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coarse grain specific tariff	RUB/t	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coarse grain ad valorem import tax	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.18.1. Soybean projections: Production and trade

Marketing year

	PRODUCTION (kt)		Growth (%) ⁴		IMPORTS (kt)		Growth (%) ⁴		EXPORTS (kt)		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	347 325	406 214	3.96	1.26	149 088	172 540	6.55	1.46	147 873	172 540	6.42	1.46
NORTH AMERICA	119 509	128 500	3.63	0.76	1 178	947	2.96	1.62	55 254	62 233	4.10	1.59
Canada	7 043	8 092	5.62	3.08	688	538	12.45	3.02	4 998	5 051	7.63	2.32
United States	112 466	120 408	3.52	0.62	490	409	-3.73	0.03	50 256	57 183	3.80	1.53
LATIN AMERICA	182 801	221 205	4.43	1.40	11 504	9 301	11.16	0.63	87 859	105 075	7.78	1.38
Argentina	49 016	61 315	0.27	1.07	3 780	500	930.35	0.00	9 592	11 914	-4.53	1.36
Brazil	118 311	140 157	6.78	1.51	410	410	18.64	0.00	70 042	82 401	10.97	1.37
Chile	0	0	..	..	232	388	4.26	1.39	2	2	96.12	-1.38
Colombia	70	89	-0.17	2.11	873	976	8.32	0.71	20	18	23.18	-0.71
Mexico	396	562	10.62	2.05	4 863	5 455	4.43	0.97	0	0	..	..
Paraguay	9 617	12 457	5.32	1.70	0	0	-80.08	..	5 543	7 312	2.93	1.81
Peru	5	6	0.00	1.97	383	429	22.62	0.92	0	0	..	..
EUROPE	11 127	13 995	11.60	2.23	17 895	17 596	3.40	-0.50	4 017	4 590	16.77	1.88
European Union ¹	2 786	3 970	13.52	3.33	14 096	14 212	2.52	-0.20	270	244	11.87	0.15
United Kingdom	0	0	..	..	758	758	-0.83	0.00	11	11	29.09	0.00
Russia	3 852	5 002	14.83	1.90	2 438	1 911	12.18	-2.97	1 262	1 645	106.80	0.96
Ukraine	4 025	4 493	10.01	1.82	5	5	20.29	-0.14	2 467	2 678	10.97	2.68
AFRICA	2 928	3 674	5.45	1.96	4 684	7 699	10.36	3.08	197	166	2.18	-0.66
Egypt	35	42	0.37	1.50	3 501	5 745	9.85	3.06	50	34	11.03	-2.97
Ethiopia	118	134	20.34	1.09	0	0	-75.42	..	78	80	259.21	0.18
Nigeria	683	864	1.47	2.09	53	51	221.68	-2.53	10	11	40.76	0.64
South Africa	1 342	1 761	9.81	2.17	11	4	12.80	-2.64	12	5	-31.92	2.53
ASIA	30 916	38 790	0.55	1.75	113 825	136 995	6.60	1.72	538	465	1.69	-0.17
China ²	16 449	21 488	1.73	1.73	87 281	104 504	6.17	1.82	128	150	-12.64	0.00
India	12 178	14 632	-0.67	1.86	60	74	76.02	-0.26	197	129	17.73	1.14
Indonesia	633	701	-4.63	0.74	2 705	3 831	5.73	2.33	2	2	24.10	-0.22
Iran	207	268	2.93	2.50	2 246	2 450	24.14	0.77	60	55	63.78	-0.77
Japan	238	273	1.06	0.95	3 246	3 126	1.07	-0.65	0	0	..	..
Kazakhstan	257	303	8.52	1.40	10	7	-19.25	-1.29	0	0	..	..
Korea	89	73	-4.72	-1.93	1 322	1 486	0.31	0.86	0	0	..	..
Malaysia	0	0	..	..	857	1 006	7.67	1.04	13	9	-2.91	-1.03
Pakistan	2	2	-16.89	1.75	2 590	3 799	36.92	2.64	0	0	..	..
Philippines	1	1	0.00	2.41	227	299	21.33	1.50	0	0	..	..
Saudi Arabia	0	0	..	..	584	742	118.04	1.38	0	0	..	..
Thailand	41	55	-11.08	2.53	2 829	3 362	5.70	1.48	4	3	-12.06	-1.45
Turkey	140	165	3.51	1.47	2 107	2 391	7.62	1.47	95	79	151.00	-1.45
Viet Nam	88	97	-13.13	1.74	1 826	2 396	17.61	2.24	2	2	54.00	-1.10
OCEANIA	45	51	-0.08	2.28	2	2	-1.48	0.05	7	11	15.84	0.67
Australia	45	51	-0.08	2.28	1	1	-2.84	0.09	7	11	15.85	0.67
New Zealand	0	0	..	..	1	1	0.00	0.00	0	0	..	..
DEVELOPED COUNTRIES	132 521	144 887	4.20	0.91	23 004	22 405	2.95	-0.40	59 291	66 839	4.64	1.61
DEVELOPING COUNTRIES	214 804	261 327	3.78	1.45	126 084	150 135	7.33	1.77	88 581	105 701	7.74	1.37
LEAST DEVELOPED COUNTRIES (LDC)	878	1 035	2.68	1.62	1 284	1 833	40.23	1.74	31	18	7.99	-1.73
OECD³	123 277	133 686	3.79	0.83	29 822	31 061	2.96	0.26	55 661	62 599	4.14	1.58
BRICS	152 131	183 040	5.53	1.58	90 200	106 903	6.33	1.70	71 641	84 329	11.06	1.36

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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

Marketing year

	CONSUMPTION (kt)		Growth (%) ⁴		DOMESTIC CRUSH (kt)		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	348 300	406 057	3.99	1.33	312 969	368 842	4.14	1.40
NORTH AMERICA	63 873	67 240	3.21	0.44	58 661	61 678	3.05	0.43
Canada	2 743	3 572	4.09	4.24	1 942	2 912	3.99	4.84
United States	61 130	63 668	3.17	0.26	56 718	58 766	3.02	0.25
LATIN AMERICA	106 857	125 425	2.75	1.35	99 832	117 138	2.79	1.34
Argentina	43 537	49 908	2.31	0.98	42 543	48 842	2.36	1.00
Brazil	48 679	58 170	2.35	1.69	43 385	51 782	2.32	1.69
Chile	223	386	3.53	1.45	223	386	3.57	1.45
Colombia	922	1 046	8.65	0.85	917	1 041	8.63	0.85
Mexico	5 205	6 016	4.76	0.99	4 968	5 766	5.01	1.01
Paraguay	4 190	5 133	8.67	1.57	4 027	4 935	8.82	1.54
Peru	398	435	20.23	0.93	397	435	20.46	0.93
EUROPE	25 028	27 000	4.88	0.43	22 483	24 331	4.85	0.46
European Union ¹	16 789	17 938	3.83	0.50	14 789	15 872	3.57	0.57
United Kingdom	747	747	-0.97	0.00	667	650	-0.13	-0.39
Russia	4 883	5 269	9.92	0.10	4 796	5 191	9.77	0.10
Ukraine	1 555	1 818	9.29	0.62	1 404	1 639	9.33	0.64
AFRICA	7 338	11 187	8.34	2.78	6 703	10 334	9.64	2.78
Egypt	3 469	5 744	9.29	3.14	3 469	5 744	9.34	3.14
Ethiopia	40	54	6.82	2.61	20	31	5.56	3.99
Nigeria	727	904	2.54	1.78	592	674	9.19	0.87
South Africa	1 265	1 752	13.02	2.18	1 139	1 584	13.07	2.19
ASIA	145 162	175 162	4.99	1.73	125 250	155 321	5.51	1.92
China ²	104 202	125 716	5.31	1.80	88 153	110 385	5.73	2.09
India	12 320	14 575	-0.61	1.85	10 481	12 321	-0.71	1.83
Indonesia	3 303	4 525	2.98	2.08	2 705	3 741	5.73	1.85
Iran	2 393	2 661	19.94	0.95	2 378	2 644	20.29	0.96
Japan	3 578	3 400	1.18	-0.53	2 771	2 589	2.51	-0.69
Kazakhstan	267	310	5.24	1.33	139	153	2.56	0.88
Korea	1 398	1 559	-0.30	0.71	1 376	1 528	-0.06	0.72
Malaysia	843	996	7.91	1.05	842	996	7.90	1.05
Pakistan	2 559	3 794	36.15	2.62	2 555	3 784	36.20	2.63
Philippines	218	300	20.06	1.58	218	300	20.37	1.58
Saudi Arabia	582	741	126.28	1.38	582	741	126.28	1.38
Thailand	2 900	3 413	5.27	1.50	2 865	3 394	5.50	1.51
Turkey	2 214	2 477	6.78	1.58	2 160	2 433	7.18	1.61
Viet Nam	1 897	2 482	11.35	2.18	1 855	2 452	14.52	2.21
OCEANIA	41	42	-1.08	2.66	40	40	-1.06	2.77
Australia	40	41	-1.09	2.74	40	40	-1.06	2.77
New Zealand	1	1	0.00	0.00	0	0	0.00	0.00
DEVELOPED COUNTRIES	94 714	100 470	3.65	0.44	85 887	91 094	3.58	0.43
DEVELOPING COUNTRIES	253 586	305 587	4.12	1.64	227 082	277 748	4.36	1.73
LEAST DEVELOPED COUNTRIES (LDC)	2 139	2 849	14.29	1.72	1 710	2 325	19.83	1.66
OECD³	96 136	102 174	3.35	0.49	87 709	93 299	3.30	0.49
BRICS	171 349	205 482	4.04	1.73	147 955	181 263	4.24	1.89

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	153 896	174 906	2.85	1.24	21 144	23 692	3.60	1.35	20 663	23 692	3.39	1.35
NORTH AMERICA	24 655	27 322	4.74	1.63	955	957	0.13	1.96	10 519	12 289	3.31	2.09
Canada	20 166	22 535	5.04	1.89	259	241	-1.25	0.02	9 884	11 742	3.47	2.23
United States	4 489	4 787	3.80	0.45	697	716	1.05	2.71	635	547	1.45	-0.67
LATIN AMERICA	6 295	9 160	2.29	3.49	1 760	2 233	0.61	2.58	1 044	1 702	8.38	5.27
Argentina	4 558	7 009	1.95	4.04	1	1	41.68	0.00	708	1 299	7.95	6.56
Brazil	591	815	7.28	3.09	5	5	-11.98	0.00	211	260	22.08	2.00
Chile	200	237	9.08	1.56	38	29	7.36	-1.82	9	10	14.24	1.57
Colombia	2	3	0.00	2.58	7	7	0.00	-0.10	0	0	..	..
Mexico	105	120	1.10	1.28	1 682	2 165	0.58	2.72	3	3	10.43	0.00
Paraguay	215	254	-1.33	1.52	0	0	-16.50	..	27	36	-3.04	3.32
Peru	6	8	0.00	2.41	1	1	0.00	6.32	0	0	..	..
EUROPE	63 599	70 239	4.01	0.94	6 297	5 975	3.66	-0.55	5 092	5 770	4.35	1.02
European Union ¹	27 807	26 587	1.01	-0.02	5 758	5 571	3.86	-0.61	894	723	0.14	0.17
United Kingdom	2 046	2 000	-2.81	0.21	312	166	-0.04	1.09	288	377	-7.45	0.32
Russia	13 628	16 054	7.82	1.32	148	152	3.17	-0.14	350	253	14.73	-1.65
Ukraine	17 637	22 524	8.02	1.83	20	26	-0.18	-0.09	2 697	3 381	6.38	1.04
AFRICA	9 162	10 702	1.20	1.43	464	567	5.21	2.24	225	156	3.84	-3.72
Egypt	117	126	-0.41	0.57	99	113	5.18	1.54	22	19	7.15	-1.52
Ethiopia	99	110	2.88	0.65	0	1	..	..	0	0	..	..
Nigeria	2 130	2 524	0.17	1.67	0	0	..	..	33	0	-10.09	-53.30
South Africa	898	1 038	3.65	1.19	55	101	5.27	5.83	0	0	-73.62	..
ASIA	47 334	54 267	1.33	1.21	11 641	13 939	4.45	2.02	2 028	1 561	8.10	-1.37
China ²	27 892	30 967	1.10	0.95	4 642	6 289	10.74	3.10	634	514	2.80	-0.11
India	12 220	14 917	1.34	1.70	253	302	6.68	-0.46	579	207	5.57	-8.39
Indonesia	623	736	-2.46	1.60	218	240	4.28	0.37	2	1	-3.20	-0.03
Iran	395	459	5.79	1.37	193	221	35.46	1.81	1	1	0.00	-0.16
Japan	20	21	-1.06	0.66	2 456	2 407	0.04	-0.10	0	0	..	..
Kazakhstan	1 141	1 333	11.22	1.39	7	7	1.78	-0.30	515	596	34.29	1.59
Korea	13	16	1.94	1.23	29	27	-2.21	-0.66	0	0	..	..
Malaysia	5	6	0.00	1.58	44	48	2.83	0.91	3	3	3.71	-0.91
Pakistan	750	890	-2.79	1.70	1 030	1 261	2.28	4.17	0	0	-66.28	..
Philippines	20	25	0.46	2.09	62	67	1.09	0.95	0	0	..	..
Saudi Arabia	3	3	0.00	1.37	4	4	0.00	0.14	0	0	..	..
Thailand	90	120	-0.09	2.74	51	46	-0.55	-3.25	3	4	1.57	2.07
Turkey	1 893	2 262	6.29	1.54	833	787	-1.98	-0.44	62	32	4.23	0.30
Viet Nam	328	368	2.48	1.06	184	244	262.51	2.20	35	27	11.99	-2.16
OCEANIA	2 850	3 218	-2.17	-0.84	27	21	-1.53	-0.59	1 754	2 215	-3.96	-1.21
Australia	2 838	3 204	-2.18	-0.84	23	17	1.53	-0.70	1 754	2 214	-3.96	-1.21
New Zealand	10	10	0.00	-0.06	4	4	-9.74	0.13	0	0	..	..
DEVELOPED COUNTRIES	93 291	103 314	4.02	1.06	10 137	9 885	2.56	-0.07	17 909	20 893	3.03	1.37
DEVELOPING COUNTRIES	60 605	71 593	1.26	1.50	11 008	13 807	4.69	2.51	2 754	2 799	6.09	1.23
LEAST DEVELOPED COUNTRIES (LDC)	6 352	7 284	0.85	1.22	246	369	-0.17	5.70	148	129	12.53	-2.53
OECD³	59 711	61 915	2.24	0.70	12 260	12 309	1.75	0.25	13 546	15 662	1.50	1.40
BRICS	55 229	63 790	2.56	1.24	5 102	6 848	9.88	2.86	1 774	1 234	6.54	-2.02

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

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

Marketing year

	CONSUMPTION (kt)		Growth (%) ⁴		DOMESTIC CRUSH (kt)		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	153 834	174 883	2.83	1.23	133 030	151 730	3.13	1.28
NORTH AMERICA	14 313	15 996	4.40	1.13	12 122	13 670	4.69	1.22
Canada	9 822	11 040	4.99	1.24	9 394	10 548	4.87	1.28
United States	4 491	4 956	3.27	0.88	2 728	3 122	4.18	1.02
LATIN AMERICA	7 078	9 690	1.56	3.00	6 549	9 028	1.45	3.06
Argentina	3 916	5 711	1.72	3.53	3 781	5 526	1.86	3.56
Brazil	388	559	3.16	3.61	310	442	1.92	3.60
Chile	229	256	8.57	1.11	210	230	8.54	0.91
Colombia	9	10	0.00	0.60	8	9	0.00	0.82
Mexico	1 784	2 283	0.60	2.65	1 615	2 105	0.22	2.82
Paraguay	187	218	-1.47	1.25	154	177	-1.66	1.05
Peru	7	9	0.00	2.81	3	3	0.00	0.65
EUROPE	64 777	70 435	3.93	0.81	60 416	65 637	4.14	0.82
European Union ¹	32 795	31 434	1.53	-0.12	30 292	28 917	1.50	-0.12
United Kingdom	2 069	1 789	-1.19	0.27	1 934	1 650	-1.36	0.40
Russia	13 293	15 955	7.63	1.35	12 656	15 066	8.40	1.26
Ukraine	14 960	19 163	8.31	1.97	14 103	18 164	8.80	2.06
AFRICA	9 427	11 112	1.30	1.56	5 713	6 184	1.60	0.64
Egypt	192	219	1.61	1.31	142	163	3.85	1.41
Ethiopia	99	111	2.88	0.72	62	63	5.45	-0.43
Nigeria	2 097	2 524	0.45	1.73	734	555	0.45	-3.09
South Africa	985	1 138	3.32	1.53	889	1 035	3.41	1.59
ASIA	57 131	66 626	1.74	1.44	47 258	56 251	2.03	1.68
China ²	31 981	36 741	2.01	1.30	25 356	30 091	2.33	1.69
India	12 009	14 998	1.32	1.89	10 572	13 375	1.53	1.98
Indonesia	841	975	-0.90	1.28	261	333	2.92	2.25
Iran	585	679	10.63	1.52	544	623	11.07	1.39
Japan	2 464	2 428	0.04	-0.10	2 449	2 410	0.14	-0.10
Kazakhstan	623	743	4.45	1.27	484	577	4.41	1.11
Korea	43	43	-1.46	0.00	38	38	-1.47	-0.01
Malaysia	46	51	2.48	1.09	45	49	2.70	0.97
Pakistan	1 787	2 151	-0.11	3.08	1 655	1 997	0.05	3.24
Philippines	81	92	1.08	1.24	69	78	1.11	1.34
Saudi Arabia	7	7	0.00	0.68	5	5	0.00	0.71
Thailand	138	161	-0.18	0.66	81	116	-0.31	1.76
Turkey	2 667	3 017	3.32	1.01	2 459	2 765	3.04	0.96
Viet Nam	482	584	6.68	1.71	363	443	9.05	1.67
OCEANIA	1 107	1 024	3.08	0.03	971	961	2.76	0.03
Australia	1 090	1 007	3.23	0.03	960	949	2.80	0.03
New Zealand	14	14	-4.40	0.00	11	11	0.00	0.00
DEVELOPED COUNTRIES	84 705	92 301	3.89	0.85	77 737	84 790	4.08	0.87
DEVELOPING COUNTRIES	69 129	82 582	1.64	1.68	55 293	66 940	1.91	1.83
LEAST DEVELOPED COUNTRIES (LDC)	6 447	7 523	0.56	1.48	4 472	5 068	0.65	1.15
OECD³	57 751	58 566	2.12	0.39	52 344	53 020	2.07	0.40
BRICS	58 657	69 390	2.93	1.46	49 783	60 008	3.42	1.65

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	342 665	402 941	3.45	1.40	89 890	98 161	2.45	0.77	90 422	98 161	1.83	0.77
NORTH AMERICA	56 155	59 958	3.06	0.58	4 753	4 149	2.98	-0.95	17 322	16 889	4.49	-0.14
Canada	6 831	8 269	4.68	2.14	968	510	-1.51	-5.63	5 051	5 800	6.32	1.40
United States	49 325	51 690	2.85	0.35	3 785	3 640	4.50	-0.06	12 271	11 089	3.78	-0.86
LATIN AMERICA	82 242	98 281	2.46	1.44	9 443	10 652	2.87	1.34	49 632	58 317	1.48	1.42
Argentina	35 243	40 672	2.23	1.13	0	0	..	..	31 268	36 228	1.88	1.15
Brazil	33 992	42 046	1.80	1.76	5	5	-15.67	0.00	13 998	17 416	-0.49	2.20
Chile	295	435	5.17	1.28	1 071	983	0.97	0.27	1	1	-20.01	-0.03
Colombia	912	1 070	7.26	1.18	1 520	1 872	11.19	2.06	97	76	5.98	-2.02
Mexico	5 129	6 098	3.94	1.32	1 969	2 184	3.45	1.14	22	22	1.91	0.00
Paraguay	3 221	3 948	8.13	1.53	2	2	0.55	0.07	2 566	3 060	11.75	1.31
Peru	337	369	14.91	0.89	1 470	2 174	8.22	3.81	5	5	0.00	-0.88
EUROPE	46 948	50 699	3.90	0.64	28 919	27 612	-0.15	-0.53	9 367	10 693	4.43	1.11
European Union ¹	28 693	28 543	2.28	0.14	23 773	22 127	-0.16	-0.86	1 859	860	-0.77	-5.45
United Kingdom	1 102	1 297	-1.42	1.38	3 192	3 241	0.96	0.65	227	272	2.74	3.17
Russia	8 377	9 758	7.48	0.87	129	88	-17.85	-0.09	1 799	2 548	4.83	1.93
Ukraine	7 362	9 349	8.90	1.85	37	29	-9.15	-0.21	5 066	6 558	7.57	2.06
AFRICA	9 881	13 672	5.88	2.26	4 749	5 223	1.23	2.02	678	603	2.56	-1.73
Egypt	2 895	4 685	8.32	3.06	504	4	-7.11	-29.10	11	8	21.54	3.57
Ethiopia	103	129	8.40	1.57	0	0	..	..	0	0	..	..
Nigeria	960	993	3.89	-0.01	467	648	32.10	2.75	183	146	5.81	-2.68
South Africa	1 350	1 773	9.37	1.99	680	844	-7.73	2.69	28	31	-11.88	-1.00
ASIA	146 371	178 570	3.90	1.80	38 745	46 995	4.46	1.49	13 312	11 464	-1.15	-1.03
China ²	86 441	106 698	4.61	2.00	3 180	3 470	10.74	-1.51	1 005	620	0.43	0.35
India	19 514	23 398	-0.21	1.73	413	687	24.10	3.66	2 716	1 448	-10.25	-3.53
Indonesia	8 001	10 292	6.07	1.74	4 695	5 127	4.50	0.68	5 380	5 367	6.59	-0.68
Iran	2 222	2 481	17.44	1.03	2 194	3 070	-0.71	-0.12	43	9	-23.54	0.04
Japan	3 609	3 442	1.57	-0.46	1 813	1 734	-2.79	-0.60	0	1	15.59	0.00
Kazakhstan	414	477	2.18	0.81	5	5	-0.10	0.03	123	141	-2.04	0.65
Korea	1 180	1 300	0.07	0.66	3 379	3 990	-0.07	1.36	50	50	-5.58	0.00
Malaysia	3 459	3 794	1.80	0.73	1 599	1 673	4.45	0.49	2 578	2 510	1.10	-0.48
Pakistan	4 501	6 012	5.56	2.35	346	195	-7.10	8.10	68	78	-10.98	-2.08
Philippines	1 073	1 378	2.52	1.92	2 939	3 595	6.05	1.99	389	301	-2.94	-1.96
Saudi Arabia	462	588	75.35	1.37	1 704	2 087	16.15	1.65	55	46	79.25	-1.63
Thailand	2 763	3 305	6.60	1.59	3 610	4 328	1.89	1.83	12	12	7.05	-0.19
Turkey	3 818	4 378	4.52	1.37	2 138	2 791	5.78	2.81	94	73	-3.07	-1.34
Viet Nam	1 691	2 213	12.52	2.14	6 064	8 910	8.58	3.90	84	97	12.85	-3.33
OCEANIA	1 068	1 762	2.13	4.78	3 282	3 530	7.03	1.20	110	194	-3.16	1.62
Australia	936	1 608	2.40	5.16	976	1 027	6.86	0.88	57	125	-6.83	1.30
New Zealand	8	8	0.28	0.00	2 293	2 493	7.15	1.35	0	0	..	..
DEVELOPED COUNTRIES	110 739	119 355	3.34	0.65	40 258	39 010	0.41	-0.28	26 909	27 895	4.35	0.33
DEVELOPING COUNTRIES	231 926	283 587	3.50	1.73	49 632	59 151	4.40	1.53	63 513	70 266	0.92	0.95
LEAST DEVELOPED COUNTRIES (LDC)	4 706	6 049	5.15	1.87	889	1 281	8.36	4.44	350	340	4.10	-1.23
OECD³	102 363	108 771	2.82	0.57	48 317	48 538	1.18	0.07	19 807	18 474	3.63	-0.43
BRICS	149 675	183 673	3.37	1.84	4 408	5 093	3.79	-0.30	19 546	22 064	-1.96	1.62

.. Not available

Note: Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29
WORLD	343 104	402 871	3.63	1.39
NORTH AMERICA	43 573	47 216	2.53	0.69
Canada	2 708	2 976	-0.20	1.42
United States	40 865	44 240	2.73	0.64
LATIN AMERICA	42 408	50 604	3.49	1.43
Argentina	3 979	4 445	1.94	0.96
Brazil	20 249	24 635	3.55	1.46
Chile	1 356	1 417	1.91	0.55
Colombia	2 344	2 865	9.67	1.84
Mexico	7 076	8 259	3.84	1.27
Paraguay	690	884	2.14	2.18
Peru	1 802	2 536	9.15	3.33
EUROPE	66 445	67 611	1.91	0.08
European Union ¹	50 606	49 809	1.18	-0.19
United Kingdom	4 067	4 266	0.19	0.72
Russia	6 717	7 297	7.07	0.51
Ukraine	2 263	2 814	11.68	1.30
AFRICA	13 941	18 285	4.36	2.35
Egypt	3 371	4 678	5.20	2.83
Ethiopia	103	129	8.40	1.57
Nigeria	1 244	1 494	8.78	1.43
South Africa	1 986	2 585	1.22	2.24
ASIA	172 496	214 057	4.60	1.90
China ²	89 084	109 554	5.03	1.87
India	17 164	22 616	2.04	2.23
Indonesia	7 375	10 050	5.02	2.66
Iran	4 386	5 541	6.78	0.35
Japan	5 418	5 176	-0.19	-0.51
Kazakhstan	297	340	5.02	0.87
Korea	4 496	5 240	0.06	1.19
Malaysia	2 477	2 955	4.33	1.73
Pakistan	4 825	6 127	4.47	2.55
Philippines	3 626	4 668	6.54	2.27
Saudi Arabia	2 165	2 628	18.93	1.65
Thailand	6 364	7 620	3.84	1.73
Turkey	5 914	7 093	5.45	1.95
Viet Nam	7 706	11 018	9.22	3.60
OCEANIA	4 240	5 098	6.06	2.29
Australia	1 856	2 510	4.86	3.39
New Zealand	2 301	2 500	7.34	1.35
DEVELOPED COUNTRIES	123 999	130 460	2.12	0.42
DEVELOPING COUNTRIES	219 105	272 412	4.57	1.89
LEAST DEVELOPED COUNTRIES (LDC)	5 250	6 989	5.77	2.48
OECD³	130 895	138 827	2.09	0.53
BRICS	135 199	166 687	4.41	1.80

Note: Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	209 498	246 688	3.91	1.41	84 555	97 915	3.68	1.27	84 765	97 915	3.45	1.27
NORTH AMERICA	17 876	18 818	3.62	0.64	4 922	5 115	3.71	0.22	4 654	4 823	2.11	1.91
Canada	4 554	4 953	5.10	1.29	287	332	-1.09	-0.03	3 458	3 712	4.44	1.77
United States	13 322	13 866	3.15	0.41	4 635	4 783	4.08	0.24	1 196	1 110	-2.79	2.41
LATIN AMERICA	27 446	33 536	3.32	1.77	4 686	4 913	2.05	0.30	11 341	13 992	3.80	1.75
Argentina	9 388	11 324	2.23	1.58	17	17	6.01	0.00	6 037	7 212	2.63	1.11
Brazil	9 299	11 420	2.43	1.90	502	543	2.01	0.94	1 484	2 610	-2.45	4.91
Chile	121	157	6.38	1.14	469	552	5.71	1.59	1	1	-11.18	-0.23
Colombia	2 031	2 801	7.89	2.67	708	573	7.67	-1.85	863	1 049	19.31	1.88
Mexico	2 012	2 450	3.10	1.64	977	1 058	3.09	0.51	54	54	5.45	0.00
Paraguay	789	962	7.41	1.50	13	11	2.02	-1.55	682	837	13.54	1.57
Peru	286	348	8.62	1.71	621	819	6.73	2.60	1	0	0.00	-0.21
EUROPE	29 966	32 683	4.33	0.85	14 137	11 385	2.91	-1.68	11 915	14 130	8.35	1.21
European Union ¹	15 584	15 362	1.97	0.01	10 647	8 021	2.89	-2.14	2 334	2 308	3.09	-1.12
United Kingdom	992	828	-1.93	2.00	1 187	1 172	2.23	-0.64	195	168	-6.94	1.35
Russia	6 063	7 110	8.77	1.20	1 113	1 098	3.77	0.05	2 858	3 466	14.31	1.63
Ukraine	6 594	8 456	8.83	2.00	283	235	-1.43	-1.80	6 147	7 753	10.15	1.83
AFRICA	8 246	10 096	3.30	1.57	11 446	14 990	4.31	2.62	1 357	1 087	-0.92	-2.62
Egypt	733	1 142	7.03	2.92	1 929	2 068	1.68	0.85	134	102	-13.55	-0.85
Ethiopia	57	69	7.64	1.11	517	788	11.95	4.26	0	0	..	..
Nigeria	1 701	1 943	2.00	0.87	1 387	2 250	4.26	4.34	65	84	-6.27	-3.22
South Africa	556	691	6.27	1.78	886	966	1.22	0.78	17	19	-21.56	-0.48
ASIA	124 614	149 848	4.05	1.54	49 013	61 150	3.93	1.80	54 573	62 821	2.81	1.22
China ²	26 709	32 693	3.98	1.94	10 145	10 952	0.59	0.49	201	183	1.25	0.00
India	9 198	11 102	0.09	1.73	15 393	22 447	6.72	3.20	67	44	-5.24	-0.51
Indonesia	49 842	62 236	7.05	1.68	122	116	5.96	-0.01	31 826	39 486	5.60	1.81
Iran	665	745	15.13	1.11	1 362	1 441	-2.38	-0.19	26	30	-25.45	0.15
Japan	1 544	1 493	0.82	-0.30	902	1 020	2.36	1.02	2	2	-1.72	0.00
Kazakhstan	287	329	2.87	0.91	153	172	7.56	0.34	94	99	35.31	-0.34
Korea	305	334	0.03	0.62	1 157	1 207	4.70	0.35	3	3	-17.66	0.00
Malaysia	22 553	24 342	0.80	0.65	1 706	1 779	-3.51	-0.39	18 895	19 660	-0.36	0.40
Pakistan	1 935	2 470	1.70	2.31	3 406	4 317	5.68	2.28	77	57	-7.11	-2.09
Philippines	1 790	2 272	1.17	1.97	1 391	1 539	13.39	0.85	965	869	0.96	-0.84
Saudi Arabia	107	136	52.61	1.37	858	1 140	11.47	2.57	63	43	39.89	-2.51
Thailand	3 992	4 978	8.43	1.83	306	303	3.55	-2.55	576	661	1.18	2.62
Turkey	1 875	2 154	3.53	1.23	1 393	1 457	2.52	0.24	423	444	-0.71	-0.24
Viet Nam	671	853	8.50	1.94	1 062	1 230	5.39	1.17	156	143	14.78	-1.16
OCEANIA	1 350	1 706	2.23	2.18	351	362	4.49	0.33	925	1 063	2.58	0.98
Australia	502	715	2.47	3.46	221	219	5.87	-0.05	177	191	4.61	-0.40
New Zealand	5	4	0.86	0.00	101	118	3.41	1.50	0	0	..	..
DEVELOPED COUNTRIES	51 551	55 609	3.85	0.78	21 794	19 570	3.12	-0.83	16 894	19 294	6.03	1.35
DEVELOPING COUNTRIES	157 947	191 079	3.93	1.60	62 761	78 345	3.88	1.87	67 872	78 621	2.89	1.25
LEAST DEVELOPED COUNTRIES (LDC)	3 842	4 677	2.23	1.62	7 548	10 274	7.10	2.82	479	355	5.25	-3.04
OECD³	43 093	45 402	2.87	0.64	23 411	21 260	3.39	-0.76	8 854	9 192	2.91	0.86
BRICS	51 823	63 015	3.38	1.81	28 039	36 006	3.83	2.10	4 628	6 322	4.31	2.77

.. Not available

Note: Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	209 762	246 424	4.25	1.40	18.3	19.8	2.32	0.85
NORTH AMERICA	18 315	19 111	3.93	0.26	39.2	39.0	1.20	0.60
Canada	1 464	1 573	5.94	0.40	36.3	35.3	3.81	-0.36
United States	16 852	17 537	3.77	0.25	39.5	39.4	0.96	0.71
LATIN AMERICA	20 798	24 452	2.85	1.47	19.2	20.2	0.57	0.48
Argentina	3 368	4 128	1.66	2.41	19.2	21.7	0.22	1.16
Brazil	8 306	9 353	3.52	1.15	24.3	24.4	0.17	0.36
Chile	587	709	6.07	1.49	11.5	12.5	3.16	0.58
Colombia	1 882	2 323	4.72	1.69	21.0	24.8	2.99	1.44
Mexico	2 936	3 454	3.06	1.31	23.3	24.7	1.79	0.40
Paraguay	122	136	-5.28	0.80	16.5	16.3	-6.02	-0.27
Peru	905	1 165	7.31	2.33	10.6	12.7	5.22	1.75
EUROPE	32 285	29 942	2.65	-0.37	25.5	25.1	3.31	0.51
European Union ¹	23 981	21 081	2.40	-0.79	25.6	23.7	3.35	0.32
United Kingdom	1 984	1 832	1.39	0.28	29.6	26.1	0.70	-0.09
Russia	4 340	4 742	5.73	0.62	29.8	33.0	5.52	0.80
Ukraine	715	935	-2.28	2.30	12.2	17.7	-2.82	3.36
AFRICA	18 351	23 985	4.42	2.47	9.5	10.0	1.65	0.57
Egypt	2 550	3 107	5.39	1.64	8.4	9.1	5.31	0.69
Ethiopia	575	856	11.48	3.97	4.9	5.9	8.65	1.95
Nigeria	3 013	4 107	3.28	2.75	10.0	10.4	0.49	0.32
South Africa	1 439	1 639	4.14	1.20	13.8	14.8	2.29	0.83
ASIA	119 249	147 931	5.02	1.77	17.7	20.7	3.00	1.34
China ²	37 532	43 461	3.81	1.45	26.3	29.8	3.27	1.29
India	24 809	33 474	4.09	2.69	11.1	14.3	1.04	2.32
Indonesia	16 884	22 713	10.37	1.54	24.2	34.3	10.05	1.65
Iran	2 038	2 156	3.48	0.23	11.6	11.3	0.78	-0.42
Japan	2 430	2 511	1.28	0.21	19.1	20.7	1.42	0.67
Kazakhstan	349	402	1.70	1.01	18.1	19.0	0.19	0.20
Korea	1 460	1 539	3.78	0.41	16.2	18.6	0.35	0.98
Malaysia	5 426	6 428	4.73	1.10	27.2	30.9	4.89	0.27
Pakistan	5 264	6 723	4.46	2.33	20.4	22.4	2.54	0.99
Philippines	2 253	2 939	7.79	2.32	6.1	8.4	12.30	2.03
Saudi Arabia	902	1 231	12.35	2.65	21.4	24.9	9.34	1.23
Thailand	3 790	4 616	9.68	1.37	13.5	18.3	8.18	2.54
Turkey	2 881	3 166	4.16	0.99	25.9	26.5	1.98	0.47
Viet Nam	1 574	1 939	6.12	1.70	2.5	3.4	3.06	2.88
OCEANIA	763	1 005	2.69	2.81	17.4	20.5	1.59	1.78
Australia	533	743	2.92	3.43	21.4	26.6	1.46	2.39
New Zealand	105	123	3.28	1.44	22.2	23.9	2.25	0.73
DEVELOPED COUNTRIES	56 708	55 886	3.00	0.01	27.1	27.2	2.23	0.61
DEVELOPING COUNTRIES	153 053	190 538	4.75	1.85	16.2	18.3	2.48	1.01
LEAST DEVELOPED COUNTRIES (LDC)	10 948	14 588	5.38	2.60	8.6	9.3	2.40	0.83
OECD³	57 920	57 473	3.09	0.07	27.7	27.7	2.01	0.57
BRICS	76 427	92 669	3.98	1.80	19.7	22.5	2.44	1.32

Note: Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ARGENTINA												
Export tax												
Soybean	%	29.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Other oilseeds	%	8.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Soybean meal	%	28.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Soybean oil	%	28.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
AUSTRALIA												
Tariffs												
Soybean oil	%	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Rapeseed oil	%	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
CANADA												
Tariffs												
Rapeseed oil	%	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
EUROPEAN UNION^{1,2}												
Voluntary coupled support												
Soybean	mIn EUR	34	37	39	40	41	42	44	46	47	49	51
Tariffs												
Soybean oil	%	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Rapeseed oil	%	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
JAPAN												
New output payments												
Soybean	JPY/kg	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7
Tariffs												
Soybean oil	JPY/kg	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Rapeseed oil	JPY/kg	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
KOREA												
Soybean tariff-quota	kt	1 032	1 032	1 032	1 032	1 032	1 032	1 032	1 032	1 032	1 032	1 032
In-quota tariff	%	5	5	5	5	5	5	5	5	5	5	5
Out-of-quota tariff	%	487	487	487	487	487	487	487	487	487	487	487
Soybean (for food) mark up	'000 KRW/t	131	131	131	131	131	131	131	131	131	131	131
MEXICO												
Tariffs												
Soybean	%	33	33	33	33	33	33	33	33	33	33	33
Soybean meal	%	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
Soybean oil	%	45	45	45	45	45	45	45	45	45	45	45
UNITED STATES												
ARC participation rate												
Soybean	%	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
Soybean loan rate	USD/t	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7
Tariffs												
Rapeseed	%	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Soybean meal	%	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Rapeseed meal	%	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Soybean oil	%	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
Rapeseed oil	%	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
CHINA												
Tariffs												
Soybean	%	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Soybean meal	%	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Soybean oil in-quota tariff	%	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Vegetable oil tariff-quota	kt	7 998.1	7 998.1	7 998.1	7 998.1	7 998.1	7 998.1	7 998.1	7 998.1	7 998.1	7 998.1	7 998.1
INDIA												
Soybean tariff	%	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Rapeseed tariff	%	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Soybean meal tariff	%	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Soybean oil tariff	%	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
INDONESIA												
Protein meal tariff	%	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
PAKISTAN												
Protein meal tariff	%	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
VIET NAM												
Protein meal tariff	%	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 are estimated. The sources for tariffs and Tariff Rate Quotas are the national questionnaire reply, UNCTAD and WTO.

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

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	175 645	202 813	0.78	1.45	56 570	67 075	0.92	1.47	59 947	70 075	1.12	1.40
NORTH AMERICA	7 475	7 684	0.75	0.46	3 861	3 780	-2.97	-0.32	75	60	-18.24	0.00
Canada	109	104	0.49	0.34	1 181	1 056	-0.66	-0.54	38	30	-4.16	0.00
United States	7 366	7 580	0.75	0.46	2 681	2 723	-3.89	-0.24	37	30	-24.04	0.00
LATIN AMERICA	51 207	61 329	-1.00	0.96	1 994	1 712	-2.62	-1.13	28 274	36 959	-1.25	1.30
Argentina	1 842	2 203	0.39	1.44	0	0	-66.93	..	281	694	9.38	5.78
Brazil	30 133	37 139	-2.26	0.74	1	0	4.70	..	20 672	26 940	-2.35	1.08
Chile	232	293	-3.21	2.59	510	490	0.43	-0.70	0	0	..	..
Colombia	2 359	2 589	1.14	1.25	108	85	-7.83	-2.38	743	914	-0.29	2.44
Mexico	6 079	6 185	1.18	0.50	64	10	-13.25	0.00	1 638	1 743	0.69	0.21
Paraguay	145	202	0.58	3.55	85	65	51.41	-2.46	112	116	6.74	2.53
Peru	1 234	1 608	1.83	1.67	206	228	0.19	3.54	99	98	5.73	-3.43
EUROPE	28 588	28 881	1.89	0.83	3 405	2 524	-9.42	-3.99	4 691	5 213	8.07	4.52
European Union ¹	17 545	17 349	0.74	0.55	1 631	1 303	-8.48	-5.15	2 537	2 695	4.65	4.71
United Kingdom	1 111	1 181	-0.09	1.49	943	774	-4.39	-0.76	379	372	4.16	3.29
Russia	6 693	6 538	7.49	0.54	247	66	-21.65	-11.87	865	803	268.59	0.13
Ukraine	1 798	1 961	-1.39	2.53	0	0	-69.55	..	422	642	61.04	13.07
AFRICA	11 294	15 831	2.22	2.81	14 284	17 565	3.11	2.20	4 090	3 184	0.17	-2.30
Egypt	2 448	4 100	4.08	3.90	1 193	690	-1.81	-2.56	132	228	-8.85	2.46
Ethiopia	405	689	5.05	3.60	248	363	17.83	3.36	37	26	287.99	-10.08
Nigeria	17	0	-2.55	..	1 193	1 612	0.92	2.78	0	0	-34.90	..
South Africa	2 151	2 683	0.98	2.00	353	188	-4.53	-2.90	737	999	1.39	2.98
ASIA	72 342	84 291	1.46	1.95	32 640	41 090	2.85	1.93	19 026	20 830	4.10	1.81
China ²	10 756	12 198	-1.44	1.12	4 800	6 257	4.33	1.03	106	68	7.91	0.00
India	30 813	35 252	1.84	1.90	1 469	1 536	14.94	0.52	4 082	4 230	6.26	-0.52
Indonesia	2 355	2 799	-1.25	1.14	4 848	7 495	6.53	4.28	0	0	..	..
Iran	1 752	2 315	7.68	1.66	620	411	-9.97	-2.64	24	0	-66.84	..
Japan	746	750	1.42	0.00	1 313	1 256	-0.42	-0.71	4	5	16.40	0.00
Kazakhstan	45	0	17.56	..	458	531	1.30	0.57	27	4	16.26	-0.57
Korea	0	0	..	..	1 907	2 086	1.15	0.81	311	336	-0.96	0.36
Malaysia	0	0	-81.13	..	2 024	2 408	1.22	1.52	116	83	-11.44	-1.50
Pakistan	5 784	7 370	3.56	2.67	9	8	-22.19	-0.98	771	650	12.73	13.10
Philippines	2 126	2 550	-1.28	1.60	73	119	114.43	-1.63	223	342	-5.62	2.37
Saudi Arabia	0	0	..	..	1 574	1 827	2.49	1.24	321	282	6.55	-1.23
Thailand	12 972	15 759	2.58	2.89	0	0	-45.79	..	9 737	12 656	4.88	3.43
Turkey	2 435	2 653	1.06	1.34	159	1	65.83	-45.60	20	52	-13.38	9.79
Viet Nam	1 359	1 267	0.28	1.75	356	823	14.28	2.80	47	53	76.81	-2.08
OCEANIA	4 740	4 798	2.10	0.49	386	404	-1.09	-0.33	3 790	3 829	4.67	0.41
Australia	4 510	4 436	2.14	0.29	86	120	-8.51	0.00	3 612	3 583	4.95	0.31
New Zealand	0	0	..	..	243	238	0.21	-0.08	20	20	-1.66	0.00
DEVELOPED COUNTRIES	43 717	44 732	1.71	0.78	11 817	10 975	-4.54	-1.03	9 379	10 066	5.25	2.54
DEVELOPING COUNTRIES	131 928	158 082	0.50	1.65	44 753	56 100	2.95	2.03	50 568	60 009	0.52	1.22
LEAST DEVELOPED COUNTRIES (LDC)	3 994	5 272	2.59	2.71	9 868	14 513	5.68	4.01	2 291	579	0.68	-10.42
OECD³	42 731	43 407	0.93	0.61	11 568	11 006	-2.97	-1.01	9 347	9 789	2.62	1.69
BRICS	80 547	93 810	0.02	1.23	6 870	8 047	0.82	0.61	26 461	33 041	-0.69	0.85

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 are estimated. Sugar data are expressed on a t equivalent basis.

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

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.23.2. Sugar projections: Consumption, food

Marketing year

	CONSUMPTION (kt)		Growth (%) ⁴		FOOD (kg/cap)		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	171 123	198 589	1.26	1.42	22.5	23.5	0.10	0.48
NORTH AMERICA	11 271	11 399	-0.13	0.20	31.0	29.4	-0.76	-0.38
Canada	1 223	1 130	0.48	-0.47	33.0	27.9	-0.53	-1.26
United States	10 048	10 268	-0.20	0.27	30.7	29.5	-0.79	-0.28
LATIN AMERICA	25 357	25 935	-0.70	0.26	39.4	36.9	-1.75	-0.52
Argentina	1 535	1 509	-0.89	-0.08	34.6	31.0	-1.88	-0.90
Brazil	10 397	10 095	-1.99	-0.09	49.6	45.3	-2.81	-0.62
Chile	750	783	0.02	0.42	41.2	40.1	-0.82	-0.20
Colombia	1 672	1 758	0.82	0.48	33.8	33.2	-0.10	-0.10
Mexico	4 310	4 458	0.88	0.11	34.2	31.9	-0.36	-0.79
Paraguay	134	151	1.04	1.06	19.5	19.5	-0.27	-0.01
Peru	1 375	1 719	2.84	2.05	42.2	47.1	1.53	1.03
EUROPE	27 402	26 209	-0.57	-0.31	36.7	35.2	-0.74	-0.24
European Union ¹	16 938	15 967	-0.49	-0.39	38.1	36.1	-0.62	-0.31
United Kingdom	1 692	1 583	-2.17	-0.03	25.2	22.5	-2.84	-0.40
Russia	5 852	5 802	0.68	-0.23	40.2	40.4	0.48	-0.06
Ukraine	1 401	1 326	-3.89	-0.54	31.8	32.0	-3.41	0.01
AFRICA	21 398	29 858	3.52	3.13	16.8	18.1	0.91	0.77
Egypt	3 448	4 496	2.65	2.80	34.7	38.1	0.55	1.25
Ethiopia	627	1 007	6.46	4.23	5.8	7.4	3.80	2.01
Nigeria	1 202	1 612	0.86	2.79	6.1	6.3	-1.76	0.27
South Africa	1 716	1 871	-1.03	0.95	29.9	29.3	-2.34	0.00
ASIA	84 403	103 815	2.27	1.91	18.6	21.1	1.25	1.20
China ²	16 254	18 416	2.14	1.13	11.4	12.6	1.61	0.94
India	25 919	32 267	2.42	2.02	19.1	21.5	1.22	1.10
Indonesia	7 115	10 223	3.70	3.31	26.7	34.8	2.49	2.45
Iran	2 480	2 722	0.64	0.89	30.3	30.8	-0.53	0.26
Japan	2 095	2 001	-0.80	-0.45	16.5	16.5	-0.66	0.00
Kazakhstan	490	526	1.17	0.59	26.6	26.1	-0.26	-0.20
Korea	1 579	1 743	1.71	0.92	30.9	34.0	1.32	0.94
Malaysia	1 890	2 309	3.40	1.67	59.0	63.3	1.76	0.50
Pakistan	5 330	6 683	2.50	2.03	26.5	27.7	0.45	0.40
Philippines	2 042	2 318	0.85	1.36	19.2	18.7	-0.74	0.00
Saudi Arabia	1 262	1 536	2.87	1.72	37.6	39.3	0.38	0.40
Thailand	2 882	3 070	1.30	0.55	41.7	44.1	0.95	0.51
Turkey	2 391	2 552	1.02	0.52	29.2	29.0	-0.53	0.02
Viet Nam	1 608	2 019	3.40	2.19	16.7	19.1	2.29	1.37
OCEANIA	1 292	1 373	-0.56	0.46	31.9	29.8	-2.04	-0.69
Australia	942	976	-1.35	0.20	37.8	35.0	-2.75	-0.80
New Zealand	220	218	0.30	-0.10	46.4	42.4	-0.71	-0.81
DEVELOPED COUNTRIES	46 233	45 642	-0.36	-0.03	32.5	31.3	-0.76	-0.23
DEVELOPING COUNTRIES	124 890	152 947	1.91	1.89	20.2	21.9	0.56	0.79
LEAST DEVELOPED COUNTRIES (LDC)	11 643	18 905	5.55	4.51	13.5	17.1	3.11	2.24
OECD³	44 856	44 574	-0.14	0.02	32.5	31.1	-0.68	-0.27
BRICS	60 137	68 452	1.19	1.21	18.8	20.2	0.37	0.69

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.24. Main policy assumptions for sugar markets

Marketing year

		Average 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ARGENTINA												
Tariff, sugar	ARS/t	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
BRAZIL												
Tariff, raw sugar	%	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Tariff, white sugar	%	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
CANADA												
Tariff, raw sugar	CAD/t	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
Tariff, white sugar	CAD/t	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
CHINA¹												
TRQ sugar	kt	1 954.0	1 954.0	1 954.0	1 954.0	1 954.0	1 954.0	1 954.0	1 954.0	1 954.0	1 954.0	1 954.0
In-quota tariff, raw sugar	%	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
In-quota tariff, white sugar	%	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Tariff, over-quota	%	82.2	73.3	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
EUROPEAN UNION^{2,3}												
Voluntary coupled support												
Sugarbeet ⁴	mIn EUR	179.1	169.3	169.3	169.3	169.3	169.3	169.3	169.3	169.3	169.3	169.3
Tariff, raw sugar	EUR/t	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0
Tariff, white sugar	EUR/t	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0
INDIA												
Tariff, sugar	%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
INDONESIA												
Tariff, sugar	%	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
JAPAN												
Minimum stabilisation price, raw sugar	JPY/kg	153.2	153.2	153.2	153.2	153.2	153.2	153.2	153.2	153.2	153.2	153.2
Tariff, raw sugar	JPY/kg	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
Tariff, white sugar	JPY/kg	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1
KOREA												
Tariff, raw sugar	%	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Tariff, white sugar	%	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
MEXICO												
Mexico common external tariff, raw sugar	USD/t	338.6	338.6	338.6	338.6	338.6	338.6	338.6	338.6	338.6	338.6	338.6
Mexico common external tariff, white sugar	USD/t	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4
RUSSIA												
Minimum tariff, raw sugar	USD/t	253.3	240.0	240.0	240.0	203.0	203.0	203.0	203.0	171.0	171.0	171.0
Minimum tariff, white sugar	USD/t	340.0	340.0	340.0	340.0	340.0	340.0	340.0	340.0	340.0	340.0	340.0
UNITED STATES												
Loan rate, raw sugar	USD/t	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4
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	1 461	1 436	1 440	1 443	1 446	1 450	1 453	1 457	1 460	1 463	1 463
TRQ, refined sugar	kt rse	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
Raw sugar 2nd tier WTO tariff	USD/t	338.6	338.6	338.6	338.6	338.6	338.6	338.6	338.6	338.6	338.6	338.6
White sugar 2nd tier WTO tariff	USD/t	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4	357.4
VIET NAM												
Tariff, sugar	%	75.8	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 are estimated. The sources for tariffs and Tariff Rate Quotas are the national questionnaire reply, UNCTAD and WTO.

1. Refers to mainland only.
2. Production supported by a EU sugar production quota at 13.5 million tonnes of sugar and 720 kt of HFCS until 30 september 2017.
3. Refers to all current European Union member States (excludes the United Kingdom)
4. Implemented in 10 Member States.

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	326 729	366 436	1.48	1.39	34 036	38 414	3.28	0.60	35 206	39 285	2.78	0.54
NORTH AMERICA	50 483	54 725	1.42	0.49	2 677	2 954	3.24	1.08	9 576	10 712	1.36	0.39
Canada	4 953	5 467	0.98	0.69	656	814	0.32	1.28	2 046	2 524	1.59	1.30
United States	45 530	49 258	1.47	0.47	2 021	2 140	4.37	1.00	7 530	8 188	1.30	0.13
LATIN AMERICA	53 135	59 999	1.54	1.01	4 595	5 197	4.80	0.90	8 659	10 509	2.33	1.01
Argentina	5 706	6 509	2.48	0.94	54	52	-2.39	0.17	701	1 143	4.09	1.78
Brazil	26 962	29 462	1.00	0.67	45	56	1.77	0.90	6 146	7 396	1.48	1.02
Chile	1 502	1 866	1.29	1.63	661	793	13.18	0.45	374	463	4.77	0.38
Colombia	2 764	3 414	3.45	2.07	230	319	15.46	3.46	28	45	7.96	5.90
Mexico	6 860	8 099	2.36	1.44	2 026	2 169	5.15	0.41	356	393	9.89	0.24
Paraguay	677	769	3.52	2.00	37	35	5.49	1.09	345	395	5.61	2.83
Peru	1 939	2 486	4.22	2.11	93	182	14.49	7.98	3	2	-13.94	-0.72
EUROPE	63 633	65 318	1.78	0.11	5 219	5 217	-3.18	0.13	8 664	8 932	4.23	-0.27
European Union ¹	44 166	44 336	1.20	-0.06	1 556	1 764	-0.12	0.60	6 686	6 777	3.60	-0.46
United Kingdom	3 989	4 023	1.85	-0.29	1 825	1 958	1.17	1.06	797	718	1.31	-0.71
Russia	10 521	11 356	4.92	0.53	838	567	-13.60	-2.84	279	338	37.67	1.35
Ukraine	2 126	2 557	0.93	1.37	408	333	-1.17	-1.44	392	545	24.62	1.20
AFRICA	17 066	21 144	2.03	2.06	3 077	4 127	3.42	3.18	279	283	1.12	0.19
Egypt	2 078	2 710	1.68	2.29	428	478	4.09	3.27	7	6	7.01	0.05
Ethiopia	504	596	-3.23	1.62	0	0	..	..	17	14	3.48	-1.21
Nigeria	1 193	1 391	0.96	1.55	2	5	-8.58	5.85	1	1	102.50	-1.41
South Africa	3 147	4 000	2.01	2.39	634	673	6.72	0.63	150	172	4.84	1.60
ASIA	135 856	158 129	1.25	2.37	17 948	20 315	5.54	0.10	4 787	5 352	4.81	0.84
China ²	82 137	93 330	0.26	2.82	3 869	3 646	19.67	-5.29	600	650	-1.68	2.03
India	7 244	9 126	2.35	2.07	2	4	-0.24	3.05	1 581	1 475	4.17	-0.59
Indonesia	3 243	4 146	4.32	2.30	211	382	14.01	3.55	3	2	-7.30	-2.16
Iran	3 092	3 714	2.67	1.58	189	158	-3.62	-1.16	69	77	6.90	1.16
Japan	3 359	3 149	0.65	-0.79	3 140	3 227	2.79	0.10	18	20	10.31	0.09
Kazakhstan	899	1 020	2.53	1.13	268	364	0.85	3.18	17	19	34.08	-1.98
Korea	2 500	2 637	3.37	0.22	1 434	1 599	5.94	0.58	35	50	1.71	0.00
Malaysia	2 124	2 714	3.69	2.23	341	398	5.24	1.87	208	317	6.15	4.07
Pakistan	3 769	4 866	4.52	2.17	29	34	3.64	4.34	58	67	3.49	-0.38
Philippines	3 573	4 471	2.75	1.95	604	982	9.07	5.58	8	9	-11.92	-0.42
Saudi Arabia	744	989	3.93	2.04	888	907	-1.07	0.70	69	64	2.40	-0.65
Thailand	2 992	3 683	1.65	1.41	23	19	-1.63	-1.70	1 232	1 666	7.24	1.90
Turkey	3 628	4 596	5.36	1.72	53	32	-5.94	-0.75	592	685	12.27	0.70
Viet Nam	4 948	6 183	2.75	3.64	1 525	2 103	4.96	2.93	25	14	44.26	1.10
OCEANIA	6 556	7 121	1.78	1.34	519	603	2.64	1.88	3 240	3 496	2.31	1.46
Australia	5 010	5 507	1.95	1.62	334	370	1.90	1.63	2 177	2 418	2.43	2.18
New Zealand	1 406	1 448	1.28	0.33	82	98	7.59	1.40	1 060	1 075	2.09	0.02
DEVELOPED COUNTRIES	130 876	138 712	1.64	0.40	12 799	13 456	0.13	0.55	21 691	23 390	2.62	0.29
DEVELOPING COUNTRIES	195 853	227 724	1.37	2.03	21 236	24 958	5.62	0.63	13 515	15 895	3.04	0.93
LEAST DEVELOPED COUNTRIES (LDC)	11 080	13 772	3.61	2.15	1 265	1 974	2.20	4.62	37	34	-2.42	-1.59
OECD³	127 241	135 570	1.57	0.44	14 262	15 601	3.27	0.71	21 715	23 370	2.53	0.26
BRICS	130 010	147 274	0.90	2.12	5 388	4 946	5.18	-4.32	8 756	10 031	2.11	0.84

.. Not available

Note: Calendar year; except year ending 30 September for New Zealand. Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

ANNEX C

Table C.25.2. Meat projections: Consumption, food

Calendar year

	CONSUMPTION (kt cwe)		Growth (%) ⁴		FOOD (kg rwe/cap) ⁵		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	325 246	365 149	1.51	1.39	34.5	34.9	0.41	0.45
NORTH AMERICA	43 813	47 305	1.51	0.56	96.5	97.8	0.84	-0.01
Canada	3 241	3 495	1.19	0.70	70.2	69.8	0.31	-0.03
United States	40 573	43 810	1.53	0.55	99.4	101.1	0.89	0.00
LATIN AMERICA	48 583	54 141	1.69	0.99	60.8	62.2	0.69	0.22
Argentina	5 059	5 417	2.16	0.76	89.0	87.1	1.24	-0.05
Brazil	20 687	21 985	0.95	0.56	78.8	78.8	0.14	0.02
Chile	1 778	2 179	3.66	1.47	78.2	89.1	2.75	0.84
Colombia	2 933	3 656	4.05	2.16	48.6	57.0	3.40	1.59
Mexico	8 308	9 582	2.99	1.21	53.8	56.1	1.76	0.31
Paraguay	365	405	2.11	1.20	40.5	39.9	0.74	0.13
Peru	2 029	2 666	4.62	2.42	53.2	62.6	3.37	1.41
EUROPE	59 903	61 403	0.88	0.18	64.4	66.5	0.82	0.27
European Union ¹	38 706	39 074	0.74	0.06	69.5	70.8	0.68	0.16
United Kingdom	5 012	5 263	1.67	0.26	60.6	61.1	1.06	-0.11
Russia	11 111	11 611	1.47	0.31	62.0	65.7	1.52	0.49
Ukraine	2 136	2 339	-1.38	0.96	39.8	46.5	-0.78	1.55
AFRICA	19 816	24 969	2.22	2.27	12.5	12.2	-0.31	-0.06
Egypt	2 530	3 212	2.07	2.41	20.4	21.9	0.17	0.92
Ethiopia	464	568	-3.58	1.94	3.1	3.0	-6.64	-0.24
Nigeria	1 249	1 487	0.73	1.76	5.1	4.6	-2.01	-0.77
South Africa	3 616	4 482	2.43	2.12	52.0	57.6	1.16	1.10
ASIA	149 642	173 489	1.63	2.12	26.7	28.6	0.67	1.38
China ²	85 333	96 233	0.79	2.37	48.0	52.8	0.32	2.13
India	5 654	7 643	1.94	2.68	3.5	4.3	1.10	1.81
Indonesia	3 572	4 667	4.69	2.38	11.1	13.2	3.49	1.56
Iran	3 198	3 781	2.26	1.47	32.9	35.9	1.05	0.81
Japan	6 468	6 357	1.64	-0.37	40.8	42.1	1.83	0.10
Kazakhstan	1 152	1 369	1.90	1.69	49.4	53.8	0.51	0.93
Korea	3 867	4 187	4.07	0.36	59.8	64.6	3.68	0.37
Malaysia	2 276	2 813	3.58	1.97	60.5	65.6	2.00	0.79
Pakistan	3 734	4 826	4.55	2.23	14.7	15.9	2.64	0.60
Philippines	4 176	5 451	3.58	2.51	31.8	35.9	2.06	1.19
Saudi Arabia	1 701	1 987	1.07	1.38	43.6	43.6	-1.38	0.03
Thailand	1 641	1 734	-1.02	0.69	19.3	20.3	-1.35	0.67
Turkey	3 253	3 994	4.35	1.83	32.6	37.1	2.63	1.30
Viet Nam	6 499	8 314	3.26	3.44	53.2	62.6	2.09	2.62
OCEANIA	3 487	3 843	1.41	1.07	69.9	67.9	0.04	-0.06
Australia	2 815	3 078	1.30	1.01	91.6	89.7	-0.01	0.03
New Zealand	432	467	2.12	0.77	74.8	74.5	1.35	0.07
DEVELOPED COUNTRIES	121 606	128 558	1.25	0.43	68.6	70.9	0.91	0.24
DEVELOPING COUNTRIES	203 640	236 591	1.67	1.95	26.6	27.4	0.38	0.83
LEAST DEVELOPED COUNTRIES (LDC)	12 187	15 588	3.51	2.46	11.3	11.4	1.17	0.25
OECD³	119 252	127 285	1.59	0.50	69.3	71.6	1.09	0.22
BRICS	126 401	141 954	0.97	1.90	31.9	33.7	0.24	1.34

Note: Calendar year; except year ending 30 September New Zealand. Average 2017-19est: Data for 2019 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 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 (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	69 774	76 005	0.88	0.75	10 102	11 496	4.42	0.81	10 168	11 510	3.32	0.78
NORTH AMERICA	13 210	14 061	0.40	0.48	1 584	1 705	3.76	0.74	1 912	2 257	2.81	0.79
Canada	1 449	1 605	0.07	0.47	216	253	-1.24	0.69	531	756	3.61	1.78
United States	11 761	12 456	0.45	0.48	1 369	1 452	4.79	0.75	1 381	1 502	2.58	0.32
LATIN AMERICA	17 933	19 476	0.92	0.75	729	844	0.88	0.84	3 092	3 992	5.15	0.86
Argentina	2 910	3 302	1.53	0.76	7	7	9.89	0.00	458	802	8.49	1.45
Brazil	9 138	9 816	0.60	0.56	33	47	0.67	1.26	1 436	1 942	4.44	0.79
Chile	214	264	0.98	1.10	300	384	7.99	1.45	15	21	6.09	-1.40
Colombia	748	787	-1.68	1.84	6	7	14.05	-1.44	23	42	18.75	6.39
Mexico	1 968	2 204	1.39	1.19	138	135	-3.86	-0.15	215	224	11.25	-0.04
Paraguay	458	515	4.26	2.43	8	4	16.59	-2.80	335	381	5.31	2.88
Peru	190	215	0.83	1.32	7	6	4.34	-0.23	0	0	..	..
EUROPE	10 811	10 331	0.05	-0.47	1 309	1 343	-2.77	0.78	1 026	1 029	2.65	0.45
European Union ¹	7 256	6 822	0.26	-0.64	370	401	1.06	1.49	605	647	2.64	0.56
United Kingdom	899	828	0.08	-0.85	344	370	1.60	2.12	129	91	-1.58	-0.19
Russia	1 603	1 649	-0.38	0.10	444	405	-8.71	-0.63	7	8	69.13	0.00
Ukraine	362	345	-1.87	0.14	3	3	-12.36	-0.28	49	48	17.42	0.56
AFRICA	6 623	7 894	1.81	1.78	635	892	0.09	4.19	86	108	-2.02	3.36
Egypt	799	910	-0.35	0.90	293	415	1.81	4.46	1	1	14.59	-0.35
Ethiopia	415	493	0.23	1.67	0	0	..	..	2	1	20.59	-2.33
Nigeria	325	376	2.80	1.40	1	2	-3.59	1.15	1	1	126.37	-1.40
South Africa	1 009	1 362	2.27	3.41	21	16	-5.77	-2.19	53	86	6.53	5.81
ASIA	17 909	20 765	1.35	1.08	5 813	6 678	8.46	0.45	1 881	1 802	3.82	-0.44
China ²	6 497	7 141	0.72	0.40	1 155	1 218	56.90	-3.81	61	35	-5.40	1.46
India	2 536	2 653	-0.10	0.28	0	0	..	..	1 554	1 468	4.19	-0.51
Indonesia	431	473	1.42	1.05	206	376	14.05	3.55	1	1	-5.54	-0.28
Iran	502	704	4.75	2.54	154	109	-2.72	-1.61	3	4	53.91	0.20
Japan	474	416	-1.10	-1.44	868	918	2.27	0.19	5	6	27.50	0.00
Kazakhstan	467	518	2.53	0.89	50	88	1.92	4.71	6	7	36.39	-1.44
Korea	283	306	0.11	0.58	527	605	6.46	0.46	4	4	1.75	0.00
Malaysia	35	47	8.06	2.35	200	270	3.69	2.85	9	7	0.49	-2.78
Pakistan	1 904	2 394	3.02	2.16	1	1	-9.09	0.01	48	57	7.89	-0.06
Philippines	302	359	0.09	1.84	174	221	5.30	2.17	3	4	-5.68	-0.38
Saudi Arabia	42	61	-0.66	3.76	152	193	0.05	1.98	15	12	-7.27	-1.94
Thailand	205	266	-2.19	1.78	17	12	0.36	-3.04	43	70	4.25	3.13
Turkey	912	1 362	6.33	2.28	31	9	-7.90	-2.39	18	31	3.22	1.58
Viet Nam	372	531	-0.33	2.91	849	882	13.07	2.44	2	2	60.21	-0.26
OCEANIA	3 287	3 478	1.22	1.56	31	33	-1.12	1.16	2 171	2 321	1.82	1.73
Australia	2 610	2 823	1.26	2.06	12	8	-0.85	0.00	1 573	1 750	1.52	2.59
New Zealand	667	645	1.10	-0.31	9	10	5.94	-0.03	595	569	2.66	-0.50
DEVELOPED COUNTRIES	30 642	31 828	0.50	0.41	4 024	4 290	0.84	0.74	5 173	5 708	2.40	1.15
DEVELOPING COUNTRIES	39 132	44 176	1.19	1.00	6 079	7 206	7.50	0.86	4 995	5 801	4.39	0.43
LEAST DEVELOPED COUNTRIES (LDC)	3 873	4 605	2.52	1.74	172	259	0.62	5.66	11	9	-0.85	-1.80
OECD³	29 556	30 837	0.58	0.42	4 349	4 778	3.03	0.87	5 096	5 644	2.51	1.11
BRICS	20 783	22 620	0.54	0.59	1 653	1 687	7.99	-2.98	3 111	3 539	4.04	0.32

.. Not available

Note: Calendar year; except year ending 30 September for New Zealand. Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	69 479	75 728	0.94	0.75	6.4	6.3	-0.22	-0.19
NORTH AMERICA	13 158	13 830	0.36	0.49	25.3	24.9	-0.37	-0.09
Canada	959	928	-0.53	-0.25	18.1	16.0	-1.54	-1.03
United States	12 199	12 902	0.44	0.55	26.1	26.0	-0.26	0.00
LATIN AMERICA	15 071	15 769	0.20	0.71	16.4	15.7	-0.85	-0.07
Argentina	2 459	2 507	0.55	0.55	38.8	36.0	-0.46	-0.28
Brazil	7 562	7 784	0.21	0.53	25.3	24.4	-0.63	-0.01
Chile	488	609	4.27	1.45	18.8	21.8	3.39	0.82
Colombia	698	719	-2.09	1.68	9.9	9.5	-2.98	1.10
Mexico	1 657	1 810	0.93	1.07	9.2	9.1	-0.31	0.16
Paraguay	128	135	3.19	1.13	13.0	12.1	1.85	0.07
Peru	197	221	0.94	1.28	4.2	4.2	-0.34	0.26
EUROPE	10 889	10 508	-0.88	-0.36	10.2	9.9	-1.04	-0.29
European Union ¹	6 791	6 412	-0.06	-0.58	10.7	10.1	-0.20	-0.50
United Kingdom	1 114	1 107	0.75	0.00	11.6	11.0	0.06	-0.37
Russia	2 075	2 080	-3.68	-0.05	10.0	10.1	-3.87	0.12
Ukraine	307	291	-3.81	0.07	4.9	4.9	-3.33	0.63
AFRICA	7 198	8 763	1.61	2.04	4.0	3.7	-0.95	-0.30
Egypt	1 122	1 354	0.23	1.85	7.9	8.0	-1.83	0.31
Ethiopia	391	477	0.14	1.96	2.5	2.4	-2.37	-0.21
Nigeria	375	462	2.16	2.06	1.3	1.3	-0.50	-0.44
South Africa	955	1 265	1.14	3.15	11.7	13.8	-0.20	2.17
ASIA	22 342	26 028	2.76	0.99	3.5	3.7	1.74	0.28
China ²	7 632	8 351	3.10	-0.36	3.7	4.0	2.57	-0.55
India	982	1 185	-4.22	1.35	0.5	0.6	-5.34	0.43
Indonesia	773	1 012	3.83	2.00	2.0	2.4	2.61	1.14
Iran	657	814	2.49	1.86	5.6	6.4	1.29	1.22
Japan	1 326	1 330	1.00	-0.44	7.3	7.7	1.15	0.01
Kazakhstan	514	602	2.23	1.39	19.5	20.9	0.79	0.59
Korea	806	907	4.09	0.50	11.0	12.4	3.69	0.51
Malaysia	242	326	3.10	2.78	5.3	6.3	1.46	1.60
Pakistan	1 851	2 332	2.92	2.23	6.5	6.8	0.86	0.60
Philippines	481	584	2.11	1.96	3.2	3.3	0.50	0.59
Saudi Arabia	179	242	0.52	2.63	3.7	4.3	-1.91	1.29
Thailand	129	126	-4.28	0.30	1.3	1.3	-4.61	0.26
Turkey	1 089	1 391	6.08	2.06	9.3	11.1	4.45	1.55
Viet Nam	1 270	1 453	7.54	2.53	9.2	9.6	6.38	1.72
OCEANIA	821	830	-1.52	0.29	14.2	12.6	-2.98	-0.87
Australia	722	724	-1.17	0.23	20.3	18.1	-2.57	-0.77
New Zealand	80	83	-3.78	0.46	11.8	11.3	-4.74	-0.25
DEVELOPED COUNTRIES	29 261	30 272	0.01	0.31	14.4	14.5	-0.42	0.11
DEVELOPING COUNTRIES	40 218	45 456	1.66	1.05	4.6	4.6	0.31	-0.05
LEAST DEVELOPED COUNTRIES (LDC)	3 984	4 826	2.43	2.00	3.2	3.1	0.06	-0.22
OECD³	28 460	29 531	0.57	0.34	14.4	14.4	0.00	0.05
BRICS	19 207	20 665	0.50	0.28	4.2	4.3	-0.31	-0.24

Note: Calendar year; except year ending 30 September New Zealand. Average 2017-19est: Data for 2019 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 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 (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	116 595	127 526	0.56	2.14	9 213	9 725	4.18	-0.53	9 403	9 708	2.97	-0.67
NORTH AMERICA	13 952	15 055	2.09	0.29	710	845	2.80	1.92	4 062	4 467	2.54	-0.06
Canada	2 063	2 210	0.81	0.52	238	317	2.04	1.55	1 370	1 610	1.71	1.07
United States	11 889	12 844	2.32	0.25	471	528	3.20	2.15	2 692	2 857	2.99	-0.65
LATIN AMERICA	8 381	9 893	2.77	1.12	1 608	1 872	10.88	0.90	939	1 057	4.17	-0.91
Argentina	599	704	9.93	0.94	40	39	-0.67	0.22	16	19	13.17	0.65
Brazil	3 938	4 454	2.30	0.62	2	1	10.69	0.00	564	617	2.77	-1.72
Chile	517	637	-0.30	1.81	209	264	37.22	-0.25	193	231	4.46	0.25
Colombia	387	526	7.86	1.59	126	193	28.74	5.06	1	0	..	..
Mexico	1 497	1 873	3.15	1.80	885	949	9.32	0.10	137	162	9.95	0.43
Paraguay	194	227	2.38	1.50	3	3	5.72	-2.12	5	10	63.36	4.00
Peru	160	195	4.21	1.79	12	21	14.72	13.27	0	0	..	..
EUROPE	29 506	29 343	1.21	-0.09	1 320	1 350	-6.59	0.77	4 138	3 906	3.46	-1.36
European Union ¹	23 056	22 570	0.62	-0.20	164	209	0.71	0.75	3 734	3 486	3.51	-1.54
United Kingdom	875	867	2.38	-0.08	786	807	0.17	0.72	241	262	4.03	0.65
Russia	3 704	4 023	6.02	0.41	152	111	-23.37	1.97	84	89	85.46	0.28
Ukraine	707	769	0.85	1.04	27	9	-26.27	-6.51	4	3	-9.28	1.01
AFRICA	1 501	1 929	3.62	2.23	281	488	1.70	6.23	29	29	20.09	-3.08
Egypt	0	0	..	..	1	0	..	..	0	0	..	..
Ethiopia	2	2	1.37	0.90	0	0	..	..	0	0	..	..
Nigeria	278	341	2.07	2.05	1	2	..	5.17	0	0	..	..
South Africa	250	326	2.99	1.54	40	39	0.52	3.31	25	26	31.67	-3.20
ASIA	62 708	70 721	-0.42	3.85	4 892	4 717	7.90	-2.33	186	197	-2.88	2.41
China ²	50 450	56 975	-0.90	4.44	1 772	1 527	23.11	-6.40	94	104	-7.40	8.24
India	300	272	-2.72	-0.93	1	2	0.22	5.14	1	0	..	..
Indonesia	361	419	5.63	1.31	2	2	18.13	-0.07	0	0	..	..
Iran	0	0	..	..	2	2	14.97	0.00	2	2	14.97	0.00
Japan	1 282	1 115	-0.05	-1.49	1 332	1 359	2.78	0.12	3	4	22.42	0.49
Kazakhstan	87	80	-2.70	-0.54	30	38	-4.10	2.54	1	2	180.97	-0.59
Korea	1 324	1 354	3.68	-0.08	708	769	5.89	0.83	2	2	13.60	0.00
Malaysia	195	207	-1.86	-0.14	30	30	9.77	5.87	4	4	-1.59	-2.22
Pakistan	0	0	..	..	0	0	..	..	0	0	..	..
Philippines	1 894	2 320	2.14	1.88	150	142	6.29	0.76	2	2	-7.09	-0.06
Saudi Arabia	0	0	..	..	24	22	15.93	0.00	4	4	288.81	0.00
Thailand	1 006	1 167	-0.02	0.74	1	1	-12.06	1.60	24	36	2.24	-2.72
Turkey	0	0	..	..	13	14	1.81	-0.01	13	14	1.81	0.01
Viet Nam	3 574	4 327	1.89	4.29	70	118	6.39	-3.33	24	13	50.50	1.28
OCEANIA	548	585	1.64	1.01	402	452	2.85	1.63	50	51	-0.55	1.91
Australia	404	423	2.11	1.00	322	361	2.00	1.67	48	50	-0.80	1.96
New Zealand	47	45	-0.62	-0.23	68	84	8.11	1.67	1	1	..	-0.06
DEVELOPED COUNTRIES	45 625	46 491	1.44	0.01	3 861	4 125	-1.35	0.93	8 281	8 458	3.02	-0.70
DEVELOPING COUNTRIES	70 971	81 036	-0.01	3.55	5 352	5 600	10.26	-1.49	1 123	1 250	2.62	-0.47
LEAST DEVELOPED COUNTRIES (LDC)	2 022	2 610	5.19	2.56	155	321	-0.10	7.41	0	0	-15.44	..
OECD³	43 735	44 873	1.29	0.07	5 339	5 874	4.29	0.79	8 437	8 680	3.11	-0.65
BRICS	58 642	66 049	-0.33	3.82	1 967	1 680	7.11	-5.85	767	835	2.87	-0.81

.. Not available

Note: Calendar year; except year ending 30 September New Zealand. Average 2017-19est: Data for 2019 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 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 (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	116 269	127 278	0.63	2.14	11.9	11.8	-0.53	1.20
NORTH AMERICA	10 592	11 424	2.01	0.54	22.7	22.9	1.27	-0.04
Canada	786	797	0.59	0.40	16.5	15.3	-0.43	-0.40
United States	9 805	10 627	2.13	0.55	23.4	23.8	1.42	0.00
LATIN AMERICA	9 058	10 714	3.74	1.31	11.0	11.9	2.66	0.53
Argentina	623	724	8.72	0.91	10.9	11.6	7.63	0.08
Brazil	3 376	3 838	2.22	1.05	12.6	13.4	1.36	0.51
Chile	533	671	3.68	1.50	22.8	26.8	2.81	0.87
Colombia	513	719	10.60	2.42	8.1	10.6	9.60	1.82
Mexico	2 252	2 666	4.88	1.24	13.9	14.9	3.59	0.33
Paraguay	192	220	2.09	1.35	21.7	22.0	0.77	0.28
Peru	172	216	4.82	2.49	4.1	4.6	3.49	1.46
EUROPE	26 673	26 772	0.36	0.15	27.9	28.1	0.20	0.23
European Union ¹	19 441	19 246	0.14	0.07	34.1	33.9	0.00	0.15
United Kingdom	1 420	1 412	0.87	0.23	16.5	15.7	0.18	-0.14
Russia	3 772	4 045	1.93	0.45	20.2	21.9	1.73	0.62
Ukraine	732	778	-1.80	0.90	13.0	14.6	-1.31	1.46
AFRICA	1 754	2 389	3.13	3.02	1.1	1.1	0.53	0.66
Egypt	1	0	-3.94	..	0.0	0.0	-5.91	0.49
Ethiopia	2	2	1.11	1.01	0.0	0.0	-1.42	-1.15
Nigeria	280	343	2.11	2.05	1.1	1.0	-0.54	-0.45
South Africa	264	339	1.50	2.20	3.6	4.1	0.16	1.24
ASIA	67 293	74 994	0.06	3.34	11.6	11.9	-0.94	2.61
China ²	52 014	58 277	-0.45	3.95	28.4	31.1	-0.97	3.76
India	301	274	-2.71	-0.89	0.2	0.1	-3.85	-1.79
Indonesia	348	399	6.25	1.37	1.0	1.1	5.01	0.52
Iran	0	0	..	..	0.0	0.0	-1.17	-0.63
Japan	2 614	2 471	1.30	-0.64	16.0	15.9	1.45	-0.19
Kazakhstan	116	116	-3.28	0.38	4.9	4.5	-4.65	-0.41
Korea	1 998	2 121	3.88	0.24	30.5	32.3	3.48	0.25
Malaysia	221	233	-0.77	0.51	5.4	5.0	-2.34	-0.64
Pakistan	0	0	..	..	0.0	0.0	13.70	-1.59
Philippines	2 042	2 459	2.41	1.81	15.0	15.5	0.79	0.45
Saudi Arabia	20	18	13.64	0.00	0.5	0.4	10.88	-1.30
Thailand	879	914	-0.16	0.40	9.9	10.2	-0.51	0.36
Turkey	0	0	..	..	0.0	0.0	-1.54	-0.51
Viet Nam	3 621	4 432	1.91	4.03	29.3	32.7	0.82	3.20
OCEANIA	900	985	2.30	1.24	17.3	16.7	0.78	0.08
Australia	678	735	2.28	1.26	21.2	20.5	0.83	0.24
New Zealand	114	129	3.79	0.97	18.8	19.5	2.75	0.25
DEVELOPED COUNTRIES	41 185	42 133	0.86	0.25	22.6	22.5	0.43	0.04
DEVELOPING COUNTRIES	75 084	85 146	0.49	3.20	9.5	9.5	-0.84	2.09
LEAST DEVELOPED COUNTRIES (LDC)	2 188	2 943	4.75	2.98	2.0	2.1	2.32	0.74
OECD³	40 561	42 017	1.29	0.32	22.9	22.9	0.73	0.03
BRICS	59 726	66 774	-0.17	3.50	14.6	15.3	-0.98	2.96

.. Not available

Note: Calendar year; except year ending 30 September for New Zealand. Average 2017-19est: Data for 2019 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 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 (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	125 312	145 711	2.72	1.11	13 552	15 897	1.93	1.20	14 421	16 766	2.32	1.13
NORTH AMERICA	23 230	25 507	1.65	0.61	244	284	0.40	1.32	3 599	3 985	-0.47	0.69
Canada	1 425	1 636	2.30	1.17	176	218	-0.15	1.75	145	158	-4.41	1.35
United States	21 806	23 870	1.61	0.57	68	66	1.93	0.00	3 454	3 827	-0.28	0.67
LATIN AMERICA	26 444	30 231	1.64	1.14	2 232	2 455	3.01	0.92	4 609	5 441	0.47	1.54
Argentina	2 146	2 446	2.39	1.18	7	6	-11.15	0.00	226	321	-1.55	2.73
Brazil	13 767	15 066	0.92	0.76	4	3	9.71	-2.18	4 147	4 838	0.44	1.52
Chile	756	950	2.69	1.67	152	145	10.31	-0.70	161	206	5.44	0.71
Colombia	1 621	2 093	5.66	2.28	97	119	8.12	1.60	4	2	-7.74	-0.15
Mexico	3 332	3 952	2.64	1.41	994	1 074	4.04	0.76	4	7	-12.88	6.88
Paraguay	21	23	0.23	-1.26	26	28	3.32	2.22	5	5	81.24	-2.17
Peru	1 551	2 036	4.86	2.28	74	156	15.98	7.85	3	1	-14.49	-0.79
EUROPE	22 046	24 360	3.69	0.62	2 313	2 255	-1.09	-0.55	3 332	3 826	6.03	0.77
European Union ¹	13 207	14 295	2.95	0.47	854	993	-0.31	0.40	2 295	2 595	3.99	0.96
United Kingdom	1 913	2 025	2.77	-0.20	597	683	3.06	1.09	328	268	1.81	-2.26
Russia	4 987	5 450	6.48	0.77	239	48	-13.33	-14.43	179	226	31.31	1.95
Ukraine	1 044	1 429	2.22	1.89	378	321	5.44	-1.25	339	494	28.93	1.27
AFRICA	5 804	7 555	2.47	2.44	2 136	2 726	5.00	2.47	134	119	1.93	-1.23
Egypt	1 153	1 658	3.59	3.25	134	62	13.14	-2.64	6	5	5.92	0.30
Ethiopia	14	17	-19.44	1.79	0	0	..	..	0	0	..	..
Nigeria	198	206	-0.83	0.51	0	2	-13.19	..	0	0	..	..
South Africa	1 730	2 138	2.00	2.03	566	614	8.27	0.62	71	60	0.66	-0.50
ASIA	46 259	56 269	3.52	1.38	6 566	8 087	1.97	1.39	2 681	3 318	6.52	1.52
China ²	20 433	23 608	2.56	0.56	622	493	3.04	-8.03	444	510	0.86	1.30
India	3 665	5 399	5.81	3.49	1	1	..	0.97	6	5	-1.92	-4.78
Indonesia	2 324	3 109	4.92	2.71	0	0	-9.39	..	2	2	-7.61	-2.80
Iran	2 217	2 639	3.04	1.57	0	1	-68.08	-0.15	64	71	6.39	1.25
Japan	1 602	1 617	1.84	-0.10	916	930	3.53	0.03	10	10	4.37	0.00
Kazakhstan	173	222	7.00	2.14	187	237	1.69	2.76	9	10	33.60	-2.45
Korea	892	975	4.24	0.53	182	207	4.20	0.09	29	44	0.70	0.00
Malaysia	1 892	2 457	4.37	2.45	75	51	7.09	-4.23	194	306	6.77	4.41
Pakistan	1 393	1 933	8.74	2.45	28	33	4.42	4.56	7	7	9.84	-1.42
Philippines	1 316	1 719	4.53	2.07	279	615	14.35	8.81	3	3	-19.01	-0.74
Saudi Arabia	702	928	4.53	1.94	676	663	-1.28	0.36	47	47	7.17	-0.35
Thailand	1 778	2 248	3.35	1.73	4	4	-4.63	0.57	1 165	1 560	7.56	1.99
Turkey	2 316	2 820	5.04	1.67	8	7	-0.24	0.30	561	640	13.04	0.68
Viet Nam	985	1 304	7.87	1.98	605	1 101	-1.32	4.29	0	0	..	..
OCEANIA	1 529	1 790	3.36	1.34	61	89	5.70	3.78	65	78	6.21	2.57
Australia	1 261	1 484	2.96	1.35	0	0	..	..	43	48	2.39	2.39
New Zealand	236	267	5.90	1.14	1	1	..	0.00	22	29	18.99	2.93
DEVELOPED COUNTRIES	51 103	56 620	2.59	0.69	4 463	4 619	0.95	0.14	7 102	7 981	2.28	0.73
DEVELOPING COUNTRIES	74 209	89 092	2.81	1.39	9 089	11 278	2.44	1.67	7 319	8 786	2.36	1.52
LEAST DEVELOPED COUNTRIES (LDC)	3 059	3 969	4.88	2.49	933	1 388	2.94	3.90	23	22	-0.81	-1.65
OECD³	51 191	56 989	2.46	0.74	4 106	4 505	2.69	0.54	7 067	7 845	1.83	0.67
BRICS	44 583	51 661	2.61	0.97	1 431	1 159	-0.29	-4.92	4 847	5 639	0.93	1.49

.. Not available

Note: Calendar year; except year ending 30 September for New Zealand. Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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

Calendar year

	CONSUMPTION (kt rce)		Growth (%) ⁴		FOOD (kg rwe/cap) ⁵		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	124 419	144 874	2.68	1.12	14.4	15.1	1.50	0.19
NORTH AMERICA	19 845	21 838	2.03	0.62	48.0	49.5	1.29	0.04
Canada	1 454	1 729	2.79	1.41	34.5	37.6	1.77	0.61
United States	18 392	20 110	1.97	0.55	49.5	50.9	1.27	0.00
LATIN AMERICA	24 066	27 245	2.00	1.04	32.9	34.1	0.93	0.27
Argentina	1 928	2 131	2.78	0.96	38.2	38.5	1.74	0.13
Brazil	9 624	10 232	1.13	0.42	40.4	40.4	0.28	-0.12
Chile	748	888	3.30	1.48	36.2	40.0	2.44	0.85
Colombia	1 714	2 210	5.85	2.25	30.5	36.8	4.89	1.66
Mexico	4 322	5 019	2.97	1.26	30.1	31.6	1.70	0.36
Paraguay	42	46	0.90	0.81	5.3	5.2	-0.41	-0.26
Peru	1 622	2 190	5.28	2.59	43.8	52.8	3.95	1.56
EUROPE	21 024	22 789	2.75	0.47	24.8	27.0	2.59	0.54
European Union ¹	11 767	12 693	2.50	0.37	23.3	25.2	2.35	0.44
United Kingdom	2 176	2 440	2.96	0.41	28.5	30.6	2.26	0.03
Russia	5 050	5 271	4.03	0.35	30.5	32.3	3.82	0.53
Ukraine	1 082	1 255	-0.18	1.23	21.6	26.6	0.32	1.79
AFRICA	7 806	10 163	3.11	2.50	5.4	5.4	0.52	0.15
Egypt	1 282	1 715	4.30	2.99	11.4	12.8	2.16	1.44
Ethiopia	14	17	-19.31	1.82	0.1	0.1	-21.33	-0.35
Nigeria	199	208	-1.43	0.57	0.9	0.7	-3.99	-1.89
South Africa	2 225	2 692	3.37	1.75	34.1	37.0	2.00	0.79
ASIA	50 153	61 037	3.17	1.37	9.7	10.9	2.14	0.67
China ²	20 612	23 591	2.63	0.28	12.7	14.2	2.09	0.09
India	3 659	5 395	5.83	3.50	2.4	3.2	4.59	2.56
Indonesia	2 322	3 108	4.94	2.71	7.7	9.3	3.71	1.85
Iran	2 153	2 569	2.59	1.58	23.1	25.5	1.39	0.94
Japan	2 504	2 537	2.41	-0.05	17.3	18.4	2.56	0.40
Kazakhstan	351	450	3.64	2.60	16.8	19.6	2.17	1.79
Korea	1 044	1 139	4.29	0.47	18.0	19.6	3.88	0.48
Malaysia	1 773	2 202	4.23	1.99	48.7	53.1	2.58	0.82
Pakistan	1 414	1 958	8.62	2.50	6.2	7.2	6.44	0.87
Philippines	1 592	2 331	5.94	3.48	13.1	16.6	4.27	2.09
Saudi Arabia	1 331	1 544	1.16	1.30	34.9	34.8	-1.30	-0.02
Thailand	629	691	-1.32	1.15	8.0	8.7	-1.66	1.11
Turkey	1 763	2 187	3.35	1.98	18.9	21.9	1.76	1.47
Viet Nam	1 590	2 404	3.52	2.97	14.5	20.0	2.41	2.16
OCEANIA	1 525	1 801	3.34	1.39	33.1	34.4	1.80	0.23
Australia	1 218	1 435	2.98	1.32	43.1	45.2	1.52	0.31
New Zealand	214	238	5.11	0.93	39.8	40.8	4.06	0.22
DEVELOPED COUNTRIES	48 427	53 290	2.46	0.64	30.0	32.1	2.03	0.44
DEVELOPING COUNTRIES	75 992	91 584	2.82	1.41	10.8	11.5	1.46	0.31
LEAST DEVELOPED COUNTRIES (LDC)	3 969	5 336	4.48	2.86	4.0	4.3	2.05	0.62
OECD³	48 189	53 681	2.56	0.74	30.7	33.0	1.99	0.45
BRICS	41 170	47 181	2.71	0.72	11.3	12.2	1.88	0.20

Note: Calendar year; except year ending 30 September for New Zealand. Average 2017-19est: Data for 2019 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 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 (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	15 047	17 194	1.67	1.21	1 169	1 297	3.72	0.62	1 213	1 301	2.46	0.68
NORTH AMERICA	90	103	-0.77	1.28	139	120	5.51	-0.20	3	3	-12.03	-0.06
Canada	16	16	0.47	0.03	26	26	3.63	0.06	0	0	..	..
United States	74	87	-1.02	1.53	113	93	5.97	-0.27	3	3	-12.26	-0.06
LATIN AMERICA	377	399	-0.54	0.50	25	25	-1.71	0.33	19	19	-5.29	-0.02
Argentina	51	56	-1.73	0.93	0	0	..	..	2	2	-14.21	0.10
Brazil	118	126	0.76	0.49	6	5	2.44	0.30	0	0	..	..
Chile	14	16	-1.72	0.52	0	0	..	..	5	5	-2.78	0.99
Colombia	8	8	-2.80	0.02	0	0	..	..	0	0	..	..
Mexico	63	71	1.54	1.14	9	10	-3.60	0.16	0	0	..	..
Paraguay	4	4	1.00	0.51	0	0	..	..	0	0	..	..
Peru	39	39	-0.55	0.10	0	0	..	..	0	0	..	..
EUROPE	1 271	1 285	0.65	-0.02	277	269	-2.45	-0.25	168	171	1.06	0.03
European Union ¹	647	649	0.15	-0.21	168	161	-2.14	-0.40	53	49	5.17	-1.06
United Kingdom	302	304	0.45	0.11	98	97	-2.22	-0.11	98	97	-1.76	0.08
Russia	227	234	2.77	0.16	3	3	-15.51	0.53	9	14	157.82	0.00
Ukraine	14	14	-5.40	0.16	0	0	..	..	0	0	..	..
AFRICA	3 138	3 765	1.06	1.84	25	20	-1.99	-2.26	29	27	-1.10	0.25
Egypt	126	142	-0.22	1.19	0	0	-38.01	..	0	0	..	..
Ethiopia	72	84	-11.16	1.35	0	0	..	..	15	13	3.44	-1.11
Nigeria	392	468	-0.01	1.80	0	0	..	..	0	0	..	..
South Africa	158	174	-0.73	1.05	7	4	0.26	-5.19	1	1	13.65	0.72
ASIA	8 979	10 374	2.20	1.22	678	834	8.11	1.12	40	35	-2.62	1.45
China ²	4 756	5 607	2.60	1.30	320	408	19.63	-0.05	1	1	-26.29	-0.35
India	743	802	-0.44	0.86	0	0	..	..	20	2	5.64	-16.64
Indonesia	128	144	1.73	1.15	2	4	12.72	6.25	0	0	..	..
Iran	374	371	-1.30	0.03	32	45	16.37	-0.02	0	0	..	..
Japan	0	0	..	..	24	19	-2.87	-1.87	0	0	..	..
Kazakhstan	172	200	2.14	1.43	0	1	..	..	1	0	43.99	..
Korea	2	2	2.45	0.00	17	18	20.22	0.10	0	0	..	..
Malaysia	2	3	2.05	2.37	36	47	8.00	3.33	0	0	..	..
Pakistan	472	539	0.86	1.25	0	0	..	..	3	3	-17.67	-3.29
Philippines	61	73	1.34	1.75	1	4	3.94	21.12	0	0	..	..
Saudi Arabia	0	0	-65.90	..	36	29	-6.65	1.12	2	1	-7.08	-1.11
Thailand	2	3	5.44	0.92	1	2	7.00	3.65	0	0	..	..
Turkey	400	414	4.96	0.34	1	1	4.00	-1.23	0	0	..	..
Viet Nam	17	22	10.66	2.74	1	2	42.74	6.85	0	0	..	..
OCEANIA	1 193	1 268	1.54	0.91	25	29	-0.95	1.42	955	1 046	3.44	0.79
Australia	735	777	2.76	0.96	0	0	..	..	513	569	6.21	1.04
New Zealand	457	491	-0.16	0.84	4	4	2.67	0.00	442	476	0.92	0.51
DEVELOPED COUNTRIES	3 506	3 774	1.56	0.77	452	423	-0.46	-0.27	1 135	1 243	3.09	0.80
DEVELOPING COUNTRIES	11 541	13 421	1.71	1.34	717	874	7.39	1.09	78	58	-4.28	-1.66
LEAST DEVELOPED COUNTRIES (LDC)	2 127	2 588	2.62	2.00	4	5	6.49	2.22	3	2	-6.90	0.06
OECD³	2 759	2 871	1.36	0.47	469	444	0.06	-0.20	1 114	1 200	2.85	0.65
BRICS	6 002	6 944	2.05	1.19	336	420	16.55	-0.11	30	18	5.14	-4.36

.. Not available

Note: Calendar year; except year ending 30 September for New Zealand. Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	15 079	17 269	1.86	1.20	1.7	1.8	0.69	0.26
NORTH AMERICA	219	213	3.10	0.48	0.5	0.5	2.35	-0.09
Canada	42	42	2.09	0.05	1.0	0.9	1.06	-0.74
United States	177	171	3.35	0.59	0.5	0.4	2.63	0.04
LATIN AMERICA	388	412	-0.25	0.50	0.5	0.5	-1.30	-0.28
Argentina	49	54	-0.69	0.96	1.0	1.0	-1.69	0.12
Brazil	125	131	0.73	0.47	0.5	0.5	-0.12	-0.07
Chile	9	10	-0.97	0.29	0.4	0.5	-1.81	-0.34
Colombia	8	8	-2.71	0.09	0.1	0.1	-3.59	-0.49
Mexico	77	86	1.17	0.89	0.5	0.5	-0.08	-0.01
Paraguay	4	4	1.01	0.51	0.5	0.5	-0.30	-0.55
Peru	39	39	-0.54	0.10	1.1	0.9	-1.81	-0.91
EUROPE	1 317	1 334	-0.56	0.07	1.6	1.6	-0.73	0.14
European Union ¹	707	723	-1.39	0.07	1.4	1.4	-1.53	0.15
United Kingdom	302	305	0.23	0.05	4.0	3.8	-0.45	-0.33
Russia	214	215	1.15	0.18	1.3	1.3	0.95	0.35
Ukraine	14	14	-5.44	0.16	0.3	0.3	-4.96	0.72
AFRICA	3 059	3 653	1.10	1.76	2.1	2.0	-1.45	-0.57
Egypt	125	142	-0.43	1.19	1.1	1.1	-2.48	-0.34
Ethiopia	57	71	-13.29	1.86	0.5	0.5	-15.46	-0.32
Nigeria	396	473	-0.12	1.80	1.8	1.6	-2.71	-0.70
South Africa	172	186	0.00	0.81	2.6	2.6	-1.32	-0.14
ASIA	9 854	11 430	2.66	1.21	1.9	2.0	1.63	0.50
China ²	5 075	6 014	3.20	1.21	3.1	3.6	2.67	1.02
India	713	789	-0.73	1.01	0.5	0.5	-1.89	0.09
Indonesia	130	148	1.92	1.27	0.4	0.4	0.73	0.43
Iran	388	399	0.36	0.03	4.2	4.0	-0.82	-0.60
Japan	24	19	-2.87	-1.87	0.2	0.1	-2.73	-1.42
Kazakhstan	171	200	2.06	1.46	8.2	8.7	0.62	0.66
Korea	19	19	17.30	0.09	0.3	0.3	16.85	0.11
Malaysia	41	53	7.64	3.09	1.1	1.3	5.93	1.91
Pakistan	469	536	1.25	1.28	2.1	2.0	-0.78	-0.34
Philippines	62	77	1.37	2.26	0.5	0.5	-0.23	0.89
Saudi Arabia	171	183	0.18	0.62	4.5	4.1	-2.25	-0.69
Thailand	3	4	3.97	2.22	0.0	0.1	3.62	2.18
Turkey	401	415	4.45	0.34	4.3	4.2	2.84	-0.17
Viet Nam	18	24	10.21	3.02	0.2	0.2	9.02	2.21
OCEANIA	242	227	-1.67	0.73	5.3	4.3	-3.14	-0.43
Australia	197	184	-1.52	0.81	7.0	5.8	-2.91	-0.20
New Zealand	24	17	-3.17	-1.17	4.4	2.9	-4.14	-1.87
DEVELOPED COUNTRIES	2 734	2 863	0.75	0.58	1.7	1.7	0.32	0.37
DEVELOPING COUNTRIES	12 346	14 406	2.12	1.32	1.8	1.8	0.77	0.23
LEAST DEVELOPED COUNTRIES (LDC)	2 046	2 484	2.73	1.94	2.1	2.0	0.35	-0.28
OECD³	2 042	2 056	0.45	0.24	1.3	1.3	-0.11	-0.05
BRICS	6 298	7 334	2.47	1.13	1.7	1.9	1.64	0.60

Note: Calendar year; except year ending 30 September for New Zealand. Average 2017-19est: Data for 2019 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 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 (2020), "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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ARGENTINA												
Beef export tax ¹	%	5.6	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	95.8	101.8	102.4	104.0	105.6	106.7	108.1	109.4	110.6	112.0	113.3
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^{2,3}												
Voluntary coupled support												
Beef and veal ⁴	mIn EUR	1 693	1 693	1 693	1 693	1 693	1 693	1 693	1 693	1 693	1 693	1 693
Sheep and goat meat ⁵	mIn EUR	487	496	496	496	496	496	496	496	496	496	496
Beef basic price ⁶	EUR/kg dwt	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Beef buy-in price ^{6,7}	EUR/kg dwt	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Beef tariff-quota	kt cwe	350.6	369.0	378.3	387.5	389.0	390.6	392.2	392.7	393.2	393.7	394.2
Pig tariff-quota	kt cwe	190.1	216.9	230.3	245.7	246.6	247.5	248.4	249.3	250.2	251.1	252.0
Poultry tariff-quota	kt rtc	1 014.7	1 021.1	1 024.3	1 026.3	1 028.4	1 030.5	1 032.5	1 034.6	1 036.7	1 038.7	1 040.8
Sheep meat tariff-quota	kt cwe	295.6	296.3	296.5	296.7	296.9	297.1	297.1	297.5	297.7	297.9	298.1
JAPAN⁸												
Beef stabilisation prices												
Upper price	JPY/kg dwt	1 241.7	1 255.0	1 255.0	1 255.0	1 255.0	1 255.0	1 255.0	1 255.0	1 255.0	1 255.0	1 255.0
Lower price	JPY/kg dwt	916.7	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0
Beef tariff	%	35.8	26.9	26.0	25.2	24.4	23.6	22.7	21.9	21.1	20.2	18.6
Pigmeat stabilisation prices												
Upper price	JPY/kg dwt	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
Lower price	JPY/kg dwt	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0
Pig meat import system												
Tariff	%	3.8	2.0	1.8	1.5	1.3	1.0	0.8	0.5	0.3	0.1	0.0
Standard import price	JPY/kg dwt	380.1	311.2	309.9	306.4	260.5	238.1	227.8	218.5	209.1	200.4	194.6
Poultry meat tariff	%	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
KOREA												
Beef tariff	%	21.3	16.0	13.3	10.6	8.0	5.3	2.6	0.0	0.0	0.0	0.0
Pigmeat tariff	%	21.3	16.0	13.3	10.6	8.0	5.3	2.6	0.0	0.0	0.0	0.0
Poultry meat tariff	%	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
MEXICO⁹												
Beef and veal tariff-quota	kt pw	220.0	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 ¹⁰	%	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Poultry meat tariff-quota	kt pw	300.0	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	%	58.3	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
Pigmeat tariff-quota ¹¹	kt pw	430.0	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	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Out-of-quota tariff	%	65.0	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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CHINA												
Beef tariff	%	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
Pigmeat tariff	%	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Sheep meat tariff	%	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Poultry meat tariff	%	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
INDIA												
Beef tariff	%	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
Pigmeat tariff	%	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Sheep meat tariff	%	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Poultry meat tariff	%	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
SOUTH AFRICA												
Sheep meat tariff-quota	kt pw	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
In-quota tariff	%	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Out-of-quota tariff	%	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0

Note: Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.31.1. Butter projections: Production and trade

Calendar year

	PRODUCTION (kt)		Growth (%) ⁴		IMPORTS (kt)		Growth (%) ⁴		EXPORTS (kt)		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	11 310	13 584	2.26	1.62	997	1 179	0.98	1.13	1 050	1 179	1.25	1.13
NORTH AMERICA	965	1 023	1.45	0.50	56	50	18.38	-2.85	31	37	-11.13	6.17
Canada	112	131	3.41	1.73	18	25	16.83	1.02	0	0	-14.56	..
United States	853	892	1.22	0.33	38	25	19.27	-5.62	31	37	-11.06	6.19
LATIN AMERICA	437	497	2.43	1.16	63	85	4.80	3.18	37	40	-2.17	1.80
Argentina	28	34	-8.24	1.02	0	0	..	..	10	6	-4.74	2.09
Brazil	103	109	3.93	0.44	3	8	9.65	10.72	0	1	-27.13	8.88
Chile	25	25	2.11	-0.23	8	16	30.83	5.90	2	1	-5.03	-5.51
Colombia	21	23	0.04	1.24	0	0	..	..	1	3	..	15.29
Mexico	200	235	4.88	1.43	31	38	5.42	2.37	8	12	25.25	1.66
Paraguay	1	3	7.80	12.37	0	0	..	..	0	2	..	14.56
Peru	4	5	4.53	3.78	8	10	6.26	2.30	0	0	..	..
EUROPE	3 053	3 276	1.98	0.67	242	242	-3.26	-0.49	425	541	3.78	2.67
European Union ¹	2 292	2 515	2.21	0.82	45	52	-1.24	0.04	248	362	2.24	3.77
United Kingdom	149	143	1.72	0.27	99	111	-0.18	-0.05	55	55	7.74	0.05
Russia	311	313	0.74	-0.01	89	71	-6.50	-1.36	3	2	-2.84	0.00
Ukraine	105	90	3.37	-0.92	1	1	-25.95	-0.16	28	11	50.56	-4.88
AFRICA	292	348	-0.79	1.97	97	145	-5.28	2.66	6	5	-5.62	-0.37
Egypt	101	116	-2.87	1.77	30	61	-7.87	4.94	1	1	-18.71	-0.90
Ethiopia	17	22	-0.80	2.64	0	0	..	..	0	0	..	..
Nigeria	12	16	-0.55	3.61	10	15	-9.45	1.51	0	0	..	..
South Africa	22	29	2.83	2.76	7	7	12.78	-0.25	3	3	12.52	0.25
ASIA	5 984	7 842	2.93	2.32	498	609	3.41	1.68	71	46	7.42	-7.03
China ²	106	115	0.01	0.48	106	142	17.61	2.07	2	2	-4.68	1.00
India	4 363	5 681	3.24	2.25	1	1	-19.06	1.54	33	9	17.40	-17.71
Indonesia	0	0	..	..	24	32	6.52	3.06	0	0	..	..
Iran	143	142	-3.07	-0.03	36	57	-4.41	3.86	1	1	5.11	-0.46
Japan	56	51	-2.49	-0.76	12	12	7.68	1.54	0	0	..	..
Kazakhstan	21	29	5.91	4.00	6	3	-0.84	-4.81	1	2	79.84	4.28
Korea	2	3	2.27	0.36	11	19	7.19	3.05	0	0	..	..
Malaysia	0	0	..	..	20	24	6.17	1.29	7	7	8.34	-1.28
Pakistan	823	1 135	2.97	2.93	0	0	..	..	0	0	..	..
Philippines	0	0	..	..	34	59	7.41	4.14	0	0	..	..
Saudi Arabia	5	5	-2.61	-0.38	48	55	-1.25	2.29	6	5	8.30	-2.24
Thailand	0	0	..	..	13	14	2.56	-0.04	1	1	11.81	0.04
Turkey	274	419	6.53	3.00	10	1	-3.40	-19.63	1	1	7.88	2.96
Viet Nam	0	0	..	..	15	25	-0.59	4.15	0	0	..	..
OCEANIA	578	599	0.29	0.59	40	48	6.99	0.67	482	509	0.07	0.42
Australia	84	73	-5.87	0.98	36	44	8.67	0.63	20	12	-14.28	-2.95
New Zealand	492	523	1.60	0.54	1	1	4.10	1.00	462	497	1.40	0.53
DEVELOPED COUNTRIES	4 736	5 070	1.60	0.67	387	380	0.20	-0.76	945	1 097	1.14	1.65
DEVELOPING COUNTRIES	6 574	8 513	2.76	2.24	610	800	1.49	2.17	106	83	2.03	-4.07
LEAST DEVELOPED COUNTRIES (LDC)	185	238	-0.22	2.74	17	22	2.56	2.05	2	1	-1.90	-0.85
OECD³	4 624	5 098	1.96	0.87	311	344	3.84	-0.10	831	986	0.52	1.73
BRICS	4 904	6 248	3.00	2.05	207	230	1.08	0.99	40	17	10.39	-12.84

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.31.2. Butter projections: Consumption, food

Calendar year

	CONSUMPTION (kt)		Growth (%) ⁴		FOOD (kg/cap)		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	11 254	13 581	2.22	1.60	1.5	1.6	1.04	0.66
NORTH AMERICA	984	1 035	2.43	0.15	2.7	2.7	1.69	-0.42
Canada	125	156	4.07	1.56	3.4	3.9	3.03	0.75
United States	859	879	2.21	-0.08	2.6	2.5	1.50	-0.63
LATIN AMERICA	468	542	3.64	1.40	0.7	0.8	2.55	0.62
Argentina	22	27	-3.91	0.78	0.5	0.6	-4.87	-0.05
Brazil	106	116	4.44	0.87	0.5	0.5	3.57	0.34
Chile	30	40	6.41	2.10	1.7	2.0	5.51	1.46
Colombia	20	19	-0.28	0.06	0.4	0.4	-1.19	-0.52
Mexico	223	260	4.52	1.55	1.8	1.9	3.23	0.64
Paraguay	0	0	..	..	0.0	0.1	-1.55	2.08
Peru	12	15	5.68	2.79	0.4	0.4	4.34	1.75
EUROPE	2 864	2 977	1.03	0.21	3.8	4.0	0.87	0.29
European Union ¹	2 086	2 205	1.98	0.35	4.7	5.0	1.84	0.42
United Kingdom	188	198	-0.95	0.15	2.8	2.8	-1.62	-0.23
Russia	397	383	-1.51	-0.27	2.7	2.7	-1.70	-0.10
Ukraine	78	80	-1.53	-0.23	1.8	1.9	-1.03	0.32
AFRICA	384	488	-2.05	2.20	0.3	0.3	-4.52	-0.14
Egypt	130	176	-4.21	2.78	1.3	1.5	-6.18	1.23
Ethiopia	17	22	-0.80	2.66	0.2	0.2	-3.28	0.47
Nigeria	21	32	-5.58	2.53	0.1	0.1	-8.03	0.01
South Africa	26	34	4.03	2.23	0.5	0.5	2.66	1.27
ASIA	6 411	8 402	2.90	2.35	1.4	1.7	1.87	1.64
China ²	210	255	6.10	1.33	0.1	0.2	5.55	1.14
India	4 331	5 673	3.14	2.35	3.2	3.8	1.93	1.42
Indonesia	23	32	7.20	3.10	0.1	0.1	5.95	2.24
Iran	179	198	-3.33	0.94	2.2	2.2	-4.46	0.31
Japan	69	64	-2.36	-0.66	0.5	0.5	-2.22	-0.21
Kazakhstan	25	30	3.28	2.55	1.4	1.5	1.82	1.74
Korea	13	18	4.29	3.29	0.2	0.4	3.89	3.30
Malaysia	13	18	5.28	2.43	0.4	0.5	3.61	1.25
Pakistan	822	1 135	2.98	2.93	4.1	4.7	0.91	1.29
Philippines	34	59	7.35	4.17	0.3	0.5	5.66	2.77
Saudi Arabia	47	55	-2.23	2.56	1.4	1.4	-4.60	1.22
Thailand	12	13	2.01	-0.04	0.2	0.2	1.65	-0.08
Turkey	284	420	5.99	2.68	3.5	4.8	4.36	2.17
Viet Nam	15	25	-0.60	4.16	0.2	0.2	-1.66	3.34
OCEANIA	143	137	6.50	0.18	3.5	3.0	4.91	-0.97
Australia	107	105	7.14	-0.01	4.3	3.8	5.62	-1.01
New Zealand	31	27	10.10	0.74	6.6	5.2	9.00	0.03
DEVELOPED COUNTRIES	4 173	4 354	1.48	0.25	2.9	3.0	1.05	0.04
DEVELOPING COUNTRIES	7 081	9 227	2.67	2.31	1.1	1.3	1.32	1.20
LEAST DEVELOPED COUNTRIES (LDC)	200	258	0.02	2.70	0.2	0.2	-2.30	0.47
OECD³	4 099	4 454	2.34	0.56	3.0	3.1	1.77	0.26
BRICS	5 070	6 460	2.84	2.10	1.6	1.9	2.01	1.57

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.32.1. Cheese projections: Production and trade

Calendar year

	PRODUCTION (kt)		Growth (%) ⁴		IMPORTS (kt)		Growth (%) ⁴		EXPORTS (kt)		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	23 579	26 829	1.53	1.18	3 116	3 696	2.81	1.42	3 195	3 696	1.59	1.42
NORTH AMERICA	6 340	7 498	2.73	1.50	169	182	0.10	0.80	358	464	6.18	2.24
Canada	483	561	3.25	1.65	31	55	4.96	2.30	12	13	3.03	0.32
United States	5 857	6 937	2.68	1.49	138	128	-0.80	0.23	346	451	6.31	2.30
LATIN AMERICA	2 143	2 580	-0.23	1.70	350	445	4.78	2.38	156	142	0.38	-0.87
Argentina	429	511	-3.52	1.63	2	1	-11.46	0.00	56	59	0.74	-0.51
Brazil	765	969	1.77	1.97	28	30	0.35	1.99	3	5	-0.64	4.78
Chile	98	100	3.14	0.25	48	76	22.23	4.30	9	6	-2.89	-4.10
Colombia	59	62	-0.01	0.58	4	2	23.50	-4.31	1	1	-10.04	0.63
Mexico	331	383	2.45	1.24	123	160	5.95	2.79	2	4	29.66	7.89
Paraguay	0	0	..	..	5	7	16.34	2.16	0	0	..	..
Peru	25	34	3.25	3.07	7	8	12.04	0.70	0	0	..	..
EUROPE	11 927	13 040	1.68	0.79	1 049	1 131	0.17	0.22	1 793	2 209	2.43	1.91
European Union ¹	10 238	11 046	1.69	0.70	195	206	1.76	0.47	1 279	1 613	2.20	2.24
United Kingdom	475	556	3.03	0.97	513	522	2.44	-0.02	180	180	6.02	0.04
Russia	491	619	1.90	2.15	207	243	-6.56	0.06	15	11	-0.44	-2.15
Ukraine	134	138	-5.91	0.47	15	37	-0.21	5.14	8	4	-27.76	-5.06
AFRICA	876	1 069	-1.81	2.23	138	194	-2.53	3.02	127	91	-5.20	-1.49
Egypt	520	616	-2.76	2.09	24	37	-4.70	1.86	101	66	-6.02	-1.83
Ethiopia	6	7	0.14	1.92	0	1	..	12.67	0	0	..	..
Nigeria	9	9	-0.71	-0.15	1	3	-19.93	12.96	0	0	..	..
South Africa	100	128	2.73	2.13	11	8	5.34	-0.60	10	12	23.47	0.60
ASIA	1 547	1 860	0.35	1.76	1 292	1 629	5.99	2.03	255	284	-3.63	1.00
China ²	269	297	-0.07	0.52	109	150	20.51	3.11	0	0	..	..
India	4	3	12.20	-2.08	3	4	13.51	0.60	7	7	15.09	-0.60
Indonesia	0	0	..	..	30	40	7.41	2.56	1	1	10.02	-2.50
Iran	209	228	-3.26	0.92	0	0	..	..	59	51	13.53	-1.96
Japan	45	45	-0.23	-0.05	290	382	4.51	1.69	0	0	..	..
Kazakhstan	25	28	4.26	1.26	18	25	-2.36	3.29	2	1	32.14	-3.01
Korea	30	29	2.39	0.33	126	164	8.49	2.37	0	0	..	..
Malaysia	0	0	..	..	26	35	10.59	2.74	1	0	11.75	..
Pakistan	0	0	..	..	5	8	22.12	3.90	0	0	..	..
Philippines	0	0	..	..	37	52	12.19	3.03	0	0	-20.12	..
Saudi Arabia	171	216	0.27	2.19	173	195	5.01	1.28	76	72	-13.25	-1.27
Thailand	5	4	0.00	-1.38	17	23	12.52	2.30	0	0	..	..
Turkey	220	290	3.09	2.91	9	4	5.61	-6.93	50	105	7.11	7.44
Viet Nam	0	0	..	..	9	13	9.67	3.59	0	0	..	..
OCEANIA	745	783	2.11	0.42	118	114	5.43	0.60	506	507	2.16	0.21
Australia	369	397	1.05	0.52	106	101	4.97	0.65	168	160	0.24	0.02
New Zealand	376	386	3.24	0.31	11	11	10.81	0.00	338	347	3.24	0.30
DEVELOPED COUNTRIES	19 459	21 868	2.03	1.04	1 683	1 872	1.26	0.61	2 677	3 202	2.86	1.67
DEVELOPING COUNTRIES	4 121	4 961	-0.60	1.82	1 433	1 824	4.90	2.32	518	495	-3.44	-0.08
LEAST DEVELOPED COUNTRIES (LDC)	295	392	-0.84	2.97	29	52	4.19	5.28	0	0	..	..
OECD³	19 001	21 222	2.08	1.00	1 682	1 920	3.72	1.11	2 466	2 968	2.95	1.81
BRICS	1 629	2 016	1.58	1.80	359	436	-1.47	1.14	36	35	5.73	-0.08

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	23 566	26 828	1.74	1.18	3.1	3.2	0.57	0.24
NORTH AMERICA	6 217	7 215	2.64	1.44	17.1	18.6	1.90	0.86
Canada	503	602	3.40	1.74	13.6	14.9	2.36	0.93
United States	5 714	6 613	2.58	1.41	17.5	19.0	1.86	0.85
LATIN AMERICA	2 337	2 883	0.36	1.95	3.6	4.1	-0.69	1.16
Argentina	375	453	-4.12	1.94	8.4	9.3	-5.08	1.10
Brazil	790	994	1.73	1.95	3.8	4.5	0.88	1.41
Chile	138	169	7.90	2.10	7.6	8.7	6.99	1.46
Colombia	63	64	0.94	0.35	1.3	1.2	0.03	-0.23
Mexico	452	539	3.26	1.64	3.6	3.9	1.99	0.73
Paraguay	5	6	18.14	2.33	0.7	0.8	16.61	1.25
Peru	31	42	4.59	2.60	1.0	1.1	3.26	1.57
EUROPE	11 183	11 962	1.42	0.54	15.0	16.1	1.26	0.62
European Union ¹	9 154	9 639	1.63	0.46	20.6	21.8	1.49	0.53
United Kingdom	808	898	2.09	0.57	12.0	12.8	1.40	0.20
Russia	683	851	-1.12	1.57	4.7	5.9	-1.32	1.75
Ukraine	140	171	-0.23	1.50	3.2	4.1	0.27	2.07
AFRICA	887	1 172	-1.35	2.72	0.7	0.7	-3.83	0.36
Egypt	443	587	-1.99	2.62	4.5	5.0	-4.00	1.07
Ethiopia	6	8	0.28	2.79	0.1	0.1	-2.22	0.60
Nigeria	10	12	-10.30	1.64	0.1	0.0	-12.63	-0.86
South Africa	100	124	1.92	2.09	1.8	1.9	0.57	1.12
ASIA	2 585	3 205	3.44	1.97	0.6	0.7	2.40	1.25
China ²	378	447	3.30	1.32	0.3	0.3	2.77	1.13
India	0	0	..	..	0.0	0.0	-66.95	0.14
Indonesia	29	39	7.24	2.74	0.1	0.1	5.99	1.88
Iran	149	177	-6.53	1.94	1.8	2.0	-7.62	1.30
Japan	335	427	3.76	1.50	2.6	3.5	3.91	1.96
Kazakhstan	41	52	0.50	2.35	2.2	2.6	-0.92	1.54
Korea	156	193	7.04	2.04	3.0	3.8	6.63	2.06
Malaysia	25	34	10.53	2.82	0.8	0.9	8.77	1.64
Pakistan	5	8	22.13	3.90	0.0	0.0	19.68	2.25
Philippines	37	51	13.13	3.05	0.3	0.4	11.35	1.67
Saudi Arabia	268	338	20.04	2.53	8.0	8.7	17.13	1.20
Thailand	21	27	8.39	1.75	0.3	0.4	8.02	1.71
Turkey	179	189	2.26	0.76	2.2	2.2	0.69	0.25
Viet Nam	9	13	9.15	3.78	0.1	0.1	7.98	2.95
OCEANIA	357	390	3.73	0.75	8.8	8.5	2.18	-0.41
Australia	307	338	3.59	0.81	12.3	12.1	2.12	-0.20
New Zealand	49	50	4.59	0.34	10.3	9.7	3.54	-0.37
DEVELOPED COUNTRIES	18 529	20 538	1.91	0.91	13.0	14.1	1.48	0.70
DEVELOPING COUNTRIES	5 036	6 290	1.12	2.13	0.8	0.9	-0.22	1.02
LEAST DEVELOPED COUNTRIES (LDC)	323	443	-0.53	3.22	0.4	0.4	-2.83	0.97
OECD³	18 282	20 174	2.18	0.89	13.2	14.1	1.60	0.60
BRICS	1 952	2 417	0.91	1.70	0.6	0.7	0.09	1.17

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	4 359	5 184	3.15	1.62	2 672	3 265	5.68	2.00	2 692	3 265	5.86	2.00
NORTH AMERICA	1 170	1 542	2.74	2.53	4	5	0.62	0.00	709	1 053	6.95	3.88
Canada	105	119	4.32	1.44	2	3	-5.25	0.00	61	56	29.50	0.93
United States	1 065	1 423	2.59	2.63	2	2	21.31	0.00	649	997	6.03	4.07
LATIN AMERICA	296	349	2.16	1.69	505	537	7.76	1.27	143	153	14.20	0.32
Argentina	43	43	2.34	0.93	0	0	..	..	22	25	2.36	1.85
Brazil	157	191	2.14	1.68	27	20	2.27	0.00	0	0	..	..
Chile	7	8	-7.60	0.86	14	21	14.37	4.22	1	0	-10.06	-4.05
Colombia	0	0	..	..	18	28	35.08	0.58	0	0	..	..
Mexico	45	44	4.76	0.05	326	390	7.37	1.39	101	104	45.14	0.00
Paraguay	0	0	..	..	1	1	..	0.08	0	0	..	..
Peru	0	0	..	..	24	27	4.82	2.56	0	0	..	..
EUROPE	1 871	2 242	5.21	1.55	228	211	7.86	-0.35	1 101	1 329	8.05	2.01
European Union ¹	1 473	1 774	6.18	1.60	53	50	14.83	-0.97	864	1 032	8.74	2.00
United Kingdom	79	102	1.64	3.06	44	34	-0.67	-0.16	72	88	2.92	4.37
Russia	77	81	2.74	0.98	96	93	8.51	-0.03	1	1	28.54	0.00
Ukraine	88	86	-2.63	0.09	1	1	-17.32	0.22	25	24	5.34	-0.09
AFRICA	9	12	0.89	1.69	401	521	4.44	3.17	15	11	6.70	-1.33
Egypt	0	0	..	..	68	100	2.14	3.88	0	0	-24.67	..
Ethiopia	0	0	..	..	0	0	..	..	0	0	..	..
Nigeria	0	0	..	..	33	52	2.92	3.87	0	0	..	..
South Africa	5	7	1.68	0.38	10	8	8.64	-0.15	8	7	13.57	0.15
ASIA	381	435	1.41	0.97	1 518	1 971	5.16	2.22	142	145	4.13	-0.90
China ²	20	21	0.00	0.55	269	350	10.69	2.18	1	1	21.10	0.00
India	231	285	5.15	1.38	1	0	-39.95	..	34	52	8.96	-1.36
Indonesia	0	0	..	..	168	255	3.45	2.67	1	1	3.41	-2.60
Iran	0	0	..	..	20	6	0.74	0.00	20	6	12.99	0.00
Japan	112	107	-3.45	0.00	55	46	7.94	-1.97	0	0	..	..
Kazakhstan	2	3	-0.34	0.25	21	22	1.06	2.62	0	0	..	..
Korea	10	12	2.58	1.24	24	27	5.96	0.38	0	0	..	..
Malaysia	0	0	..	..	126	167	4.43	2.73	9	4	-2.92	-2.66
Pakistan	0	0	..	..	38	47	7.90	3.87	0	0	1.68	..
Philippines	0	0	..	..	169	235	7.11	2.05	0	0	..	..
Saudi Arabia	0	0	..	..	44	50	-2.74	2.39	10	6	-14.11	-2.34
Thailand	0	0	..	..	67	68	1.24	-0.13	12	14	32.00	0.13
Turkey	0	0	..	..	34	45	37.89	0.00	34	45	65.00	0.00
Viet Nam	0	0	..	..	90	137	0.61	3.75	1	0	-8.01	..
OCEANIA	633	604	0.21	0.18	15	20	6.73	0.87	583	573	1.02	0.40
Australia	197	125	-0.84	-3.91	10	13	12.77	0.00	154	101	1.86	-3.90
New Zealand	436	478	0.75	1.61	0	0	-25.84	..	429	472	0.75	1.63
DEVELOPED COUNTRIES	3 799	4 511	3.14	1.63	355	341	7.30	-0.16	2 404	2 965	5.64	2.27
DEVELOPING COUNTRIES	560	673	3.18	1.53	2 317	2 924	5.48	2.29	288	300	8.13	-0.34
LEAST DEVELOPED COUNTRIES (LDC)	0	0	..	..	154	233	8.62	4.01	5	3	7.28	-3.21
OECD³	3 564	4 229	3.14	1.66	615	692	8.44	0.67	2 382	2 914	6.22	2.22
BRICS	490	585	3.44	1.38	402	471	7.50	1.56	44	61	8.90	-1.15

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	4 511	5 184	3.17	1.58	0.6	0.6	2.01	0.73
NORTH AMERICA	475	494	-1.63	0.14	1.2	1.2	-2.48	-0.59
Canada	57	65	-3.20	1.84	0.7	0.8	-7.24	0.28
United States	418	429	-1.42	-0.10	1.3	1.2	-2.10	-0.65
LATIN AMERICA	659	733	4.09	1.68	0.9	1.0	3.15	0.91
Argentina	21	18	0.63	-0.24	0.5	0.4	-0.39	-1.06
Brazil	184	211	2.09	1.51	0.6	0.7	1.04	0.95
Chile	21	29	3.58	3.31	1.1	1.5	2.71	2.67
Colombia	18	28	37.89	0.58	0.4	0.5	36.64	0.00
Mexico	270	331	3.03	1.67	2.1	2.4	1.75	0.76
Paraguay	0	0	..	..	0.0	0.0	-11.29	-0.70
Peru	24	27	4.83	2.56	0.7	0.7	3.50	1.53
EUROPE	1 144	1 124	3.21	0.51	1.4	1.4	2.98	0.86
European Union ¹	796	792	3.78	0.69	1.5	1.6	3.63	1.21
United Kingdom	59	48	-0.26	-0.99	0.9	0.7	-0.94	-1.36
Russia	177	173	5.53	0.43	1.2	1.2	5.33	0.60
Ukraine	64	63	-4.87	0.16	1.4	1.5	-4.40	0.72
AFRICA	396	522	4.28	3.26	0.3	0.3	1.65	0.89
Egypt	68	100	2.36	3.89	0.7	0.8	0.26	2.33
Ethiopia	0	0	..	..	0.0	0.0	-9.76	0.00
Nigeria	33	52	2.93	3.89	0.2	0.2	0.25	1.34
South Africa	7	8	14.96	0.06	0.1	0.1	13.44	-0.89
ASIA	1 760	2 261	4.37	2.20	0.4	0.5	3.36	1.52
China ²	289	370	9.44	2.08	0.2	0.3	8.88	1.89
India	197	234	4.43	2.08	0.1	0.2	3.21	1.15
Indonesia	167	254	3.45	2.70	0.6	0.9	2.24	1.84
Iran	0	0	-77.59	..	0.0	0.0	-77.86	-0.06
Japan	169	154	-0.87	-0.64	1.1	1.1	-1.33	-0.22
Kazakhstan	23	25	1.18	2.35	1.3	1.2	-0.25	1.55
Korea	35	39	4.47	0.63	0.7	0.8	4.07	0.64
Malaysia	117	163	4.90	2.89	3.6	4.5	3.24	1.70
Pakistan	38	47	8.08	3.91	0.2	0.2	5.91	2.25
Philippines	169	235	7.11	2.05	1.6	1.9	5.42	0.68
Saudi Arabia	34	44	6.45	3.21	1.0	1.1	3.87	1.87
Thailand	55	54	-1.10	-0.20	0.8	0.8	-1.44	-0.24
Turkey	0	0	-44.55	..	0.0	0.0	-45.41	-0.05
Viet Nam	90	137	0.69	3.77	0.9	1.3	-0.39	2.94
OCEANIA	77	50	-0.14	-1.79	1.9	1.1	-1.63	-2.92
Australia	66	37	-0.14	-2.72	2.6	1.3	-1.56	-3.69
New Zealand	7	7	-4.58	0.22	1.5	1.3	-5.54	-0.49
DEVELOPED COUNTRIES	1 920	1 888	1.35	0.29	1.2	1.2	0.77	0.21
DEVELOPING COUNTRIES	2 591	3 296	4.73	2.40	0.4	0.5	3.40	1.31
LEAST DEVELOPED COUNTRIES (LDC)	149	230	8.66	4.15	0.2	0.2	6.14	1.89
OECD³	1 965	2 008	1.58	0.49	1.3	1.3	0.88	0.33
BRICS	854	996	5.17	1.64	0.3	0.3	4.52	1.11

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	5 033	5 894	1.53	1.69	2 637	2 929	2.40	1.01	2 563	2 929	2.20	1.01
NORTH AMERICA	57	92	4.76	3.94	10	11	1.18	0.36	25	57	11.91	9.99
Canada	8	7	-3.89	-1.83	3	4	-3.68	1.11	1	1	6.26	1.11
United States	49	85	7.21	4.61	7	7	3.56	0.00	24	56	12.13	10.18
LATIN AMERICA	1 317	1 756	0.53	2.37	270	207	-2.50	-1.31	273	379	-0.13	2.05
Argentina	175	202	-5.89	1.00	0	0	-42.47	..	100	141	-6.93	2.23
Brazil	592	851	1.87	3.03	65	48	4.89	-1.15	2	11	-4.79	26.44
Chile	77	85	-2.55	0.74	8	4	13.39	0.61	4	5	-13.84	-0.56
Colombia	42	59	-0.01	3.86	13	7	36.26	-6.15	2	3	-1.15	5.83
Mexico	223	259	0.84	1.27	43	42	13.23	-0.73	6	1	-5.45	-18.33
Paraguay	0	0	..	..	3	5	10.48	0.00	3	5	63.31	0.00
Peru	0	0	..	..	20	20	8.27	2.04	0	0	..	..
EUROPE	889	1 052	0.99	2.11	83	86	2.52	-0.85	427	529	-1.75	3.33
European Union ¹	706	816	1.11	2.05	20	23	-4.24	0.00	350	421	-2.39	3.20
United Kingdom	38	71	1.02	5.23	18	11	-3.52	-4.44	42	68	5.75	4.25
Russia	58	57	-0.63	0.16	41	49	17.99	-0.22	2	2	35.40	0.00
Ukraine	12	18	1.80	2.25	0	0	..	..	4	7	6.47	5.04
AFRICA	53	64	13.93	1.14	612	747	1.63	2.29	26	26	8.15	-0.72
Egypt	0	0	..	..	27	43	-5.50	2.44	10	8	35.94	-2.38
Ethiopia	0	0	..	..	1	2	9.14	2.18	0	0	..	..
Nigeria	0	0	..	..	86	123	-1.46	3.82	0	0	-9.82	..
South Africa	12	15	3.07	2.28	4	3	9.62	-1.96	6	9	10.45	1.99
ASIA	1 257	1 359	0.57	2.18	1 629	1 852	3.68	0.97	371	385	3.63	-0.44
China ²	1 132	1 183	0.38	2.04	514	590	4.35	0.50	2	2	-12.54	0.35
India	7	9	120.33	2.82	0	0	-35.66	..	3	5	12.55	4.83
Indonesia	79	118	2.72	3.73	55	67	0.47	1.25	0	0	-39.07	..
Iran	1	1	-3.18	0.61	2	2	-2.96	0.30	2	1	4.06	0.00
Japan	10	13	-3.33	1.67	0	0	..	..	0	0	..	..
Kazakhstan	16	17	1.24	0.90	2	1	-12.11	-4.24	0	0	..	..
Korea	2	2	-1.12	0.68	5	6	11.83	0.50	0	0	..	..
Malaysia	0	0	..	..	57	63	11.63	0.15	40	44	17.48	-0.15
Pakistan	0	0	..	..	3	2	-9.45	1.32	0	0	-26.32	..
Philippines	0	0	..	..	23	30	-7.78	1.06	5	7	-20.99	-1.05
Saudi Arabia	0	0	..	..	122	139	3.48	2.00	17	13	-7.10	-1.96
Thailand	0	0	..	..	59	80	8.60	1.89	2	1	-14.53	-1.85
Turkey	0	0	..	..	1	1	-12.78	0.00	1	1	-5.01	0.00
Viet Nam	0	0	..	..	47	52	1.56	1.23	11	9	8.43	-1.21
OCEANIA	1 460	1 573	3.25	0.26	33	26	10.02	-2.11	1 440	1 553	3.57	0.28
Australia	63	57	-10.89	0.21	27	19	14.58	-2.96	49	43	-10.26	0.83
New Zealand	1 397	1 515	4.44	0.27	2	2	11.15	0.00	1 391	1 509	4.44	0.27
DEVELOPED COUNTRIES	2 444	2 763	2.36	1.06	136	129	3.87	-1.09	1 899	2 149	2.25	1.14
DEVELOPING COUNTRIES	2 589	3 131	0.78	2.28	2 502	2 800	2.32	1.12	664	779	1.96	0.66
LEAST DEVELOPED COUNTRIES (LDC)	34	38	41.99	0.38	230	305	1.76	2.85	8	6	-0.59	-1.60
OECD³	2 630	2 984	2.08	1.09	153	132	5.06	-1.42	1 872	2 110	2.20	1.06
BRICS	1 800	2 114	0.93	2.38	623	690	4.82	0.31	15	28	1.01	5.90

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	5 089	5 894	1.61	1.67	0.7	0.7	0.45	0.73
NORTH AMERICA	41	46	0.72	-1.27	0.1	0.1	-0.01	-1.84
Canada	11	10	-4.23	-1.09	0.3	0.2	-5.19	-1.87
United States	30	36	2.47	-1.33	0.1	0.1	1.76	-1.87
LATIN AMERICA	1 314	1 583	-0.04	1.88	2.0	2.2	-1.09	1.10
Argentina	76	60	-4.16	-1.41	1.7	1.2	-5.12	-2.22
Brazil	655	888	2.17	2.67	3.1	4.0	1.32	2.12
Chile	81	84	-0.41	0.81	4.4	4.3	-1.24	0.18
Colombia	52	62	2.66	2.11	1.1	1.2	1.73	1.52
Mexico	260	300	2.38	1.24	2.1	2.1	1.12	0.33
Paraguay	0	0	..	..	0.0	0.0	-58.50	-0.10
Peru	20	20	8.55	2.05	0.6	0.5	7.17	1.02
EUROPE	525	609	3.45	0.54	0.7	0.8	3.29	0.62
European Union ¹	356	418	4.34	0.64	0.8	0.9	4.19	0.72
United Kingdom	14	14	-11.61	-0.18	0.2	0.2	-12.21	-0.55
Russia	97	104	3.84	-0.02	0.7	0.7	3.64	0.16
Ukraine	8	11	1.29	0.69	0.2	0.3	1.80	1.25
AFRICA	639	785	2.08	2.30	0.5	0.5	-0.49	-0.04
Egypt	17	35	-10.83	3.95	0.2	0.3	-12.66	2.38
Ethiopia	1	2	10.76	2.18	0.0	0.0	7.99	0.00
Nigeria	86	122	-1.37	3.84	0.4	0.5	-3.93	1.29
South Africa	10	9	1.90	0.94	0.2	0.1	0.56	-0.02
ASIA	2 514	2 826	2.09	1.75	0.6	0.6	1.07	1.04
China ²	1 643	1 771	1.58	1.50	1.2	1.2	1.06	1.32
India	4	4	11.33	0.92	0.0	0.0	10.02	0.00
Indonesia	134	184	3.28	2.76	0.5	0.6	2.07	1.91
Iran	1	2	-10.52	0.63	0.0	0.0	-11.57	0.00
Japan	10	13	-3.13	1.64	0.1	0.1	-2.99	2.10
Kazakhstan	18	19	-1.55	0.48	1.0	0.9	-2.94	-0.32
Korea	7	7	5.88	0.56	0.1	0.1	5.47	0.57
Malaysia	17	19	3.97	0.85	0.5	0.5	2.31	-0.31
Pakistan	3	1	28.19	1.62	0.0	0.0	25.61	0.00
Philippines	18	23	4.83	1.85	0.2	0.2	3.18	0.48
Saudi Arabia	106	125	6.17	2.54	3.2	3.2	3.60	1.20
Thailand	57	78	10.69	1.97	0.8	1.1	10.31	1.93
Turkey	0	0	..	..	0.0	0.0	-40.77	-0.05
Viet Nam	37	44	0.88	1.80	0.4	0.4	-0.21	0.99
OCEANIA	56	46	-1.48	-1.70	1.4	1.0	-1.66	-2.82
Australia	45	33	-2.91	-2.50	1.8	1.2	-4.29	-3.47
New Zealand	7	8	5.23	0.47	1.5	1.5	154.99	-0.25
DEVELOPED COUNTRIES	663	743	2.77	0.29	0.5	0.5	2.45	0.09
DEVELOPING COUNTRIES	4 427	5 151	1.43	1.88	0.7	0.7	0.09	0.78
LEAST DEVELOPED COUNTRIES (LDC)	256	337	3.60	2.64	0.3	0.3	1.19	0.40
OECD³	893	1 006	2.14	0.68	0.6	0.7	1.65	0.39
BRICS	2 409	2 776	1.82	1.80	0.8	0.8	1.00	1.27

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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

Calendar year

	PRODUCTION (kt)		Growth (%) ¹		IMPORTS (kt)		Growth (%)		EXPORTS (kt)		Growth (%)	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	3 124	3 547	1.46	1.17	1 593.6	2 069.4	5.77	2.47	1 943.8	2 419.6	5.33	2.08
NORTH AMERICA	498	567	-0.18	1.32	3.8	5.5	-1.87	1.90	241.0	294.1	1.91	1.92
Canada	39	46	7.30	1.65	3.8	5.5	-1.87	1.90	41.0	48.2	10.02	1.14
United States	459	521	-0.65	1.29	0.0	0.0	..	..	200.0	245.9	0.76	2.08
LATIN AMERICA	162	191	2.63	1.48	104.9	118.5	-0.18	1.58	158.2	189.1	6.02	1.57
Argentina	71	84	3.86	1.63	0.6	0.5	-28.84	0.00	50.3	57.2	-1.10	1.60
Brazil	0	0	..	..	15.6	11.5	-6.94	0.01	0.2	0.4	..	..
Chile	9	9	193.79	0.25	6.9	14.4	0.23	6.78	15.6	23.5	9.33	3.74
Colombia	0	0	..	..	13.7	16.6	14.01	2.15	0.0	0.0	-60.72	..
Mexico	56	65	0.26	1.24	38.9	38.0	1.21	-0.21	45.9	49.1	146.04	-0.05
Paraguay	0	0	..	..	1.0	1.2	..	2.27	0.0	0.0	..	..
Peru	0	0	..	..	10.2	13.7	5.20	2.65	10.2	13.7	5.20	2.65
EUROPE	2 187	2 484	1.62	1.15	255.3	244.7	8.20	-0.17	915.6	1 041.4	4.84	1.24
European Union ²	1 846	2 094	0.81	1.17	66.8	49.5	3.40	-1.45	624.6	723.3	4.31	1.53
United Kingdom	79	93	-0.12	0.97	53.1	41.9	11.15	-2.02	54.7	49.0	-0.39	-0.98
Russia	1	1	0.06	2.20	116.6	141.8	14.07	1.51	3.1	3.2	55.68	0.00
Ukraine	42	44	11.63	0.47	1.3	0.6	-4.17	-8.36	31.1	32.4	7.23	0.27
AFRICA	3	4	-3.36	2.14	47.4	67.4	3.93	3.35	27.3	40.9	4.81	3.94
Egypt	0	0	..	..	11.1	2.2	-2.41	-14.92	11.1	2.2	-2.41	-14.93
Ethiopia	0	0	..	..	1.3	1.9	48.12	3.93	0.0	0.0	..	..
Nigeria	0	0	..	..	4.4	12.0	11.98	9.47	4.4	12.0	332.36	9.47
South Africa	3	4	-3.36	2.13	11.0	15.4	5.90	3.00	3.7	5.6	9.65	3.90
ASIA	128	144	2.96	1.16	1 136.9	1 585.1	5.83	3.08	554.8	809.1	9.08	3.51
China ³	75	75	-0.99	0.00	514.6	718.1	6.87	3.02	0.7	0.8	13.93	0.00
India	1	1	5.83	-2.08	16.0	22.9	15.12	3.15	0.1	0.0	..	..
Indonesia	0	0	..	..	130.8	186.6	6.52	3.25	130.8	186.6	6.52	3.25
Iran	8	9	3.29	0.92	1.9	0.6	-4.31	-11.21	7.6	7.0	-1.51	-1.02
Japan	0	0	..	..	56.7	54.3	0.69	0.00	0.0	0.0	..	..
Kazakhstan	0	0	..	..	7.5	20.6	19.78	9.47	7.5	20.6	203.86	9.47
Korea	0	0	..	..	34.3	34.7	-0.52	0.01	0.1	0.0	..	..
Malaysia	0	0	..	..	79.5	72.8	4.90	-1.18	79.5	72.8	4.90	-1.18
Pakistan	0	0	..	..	27.7	45.7	3.84	4.67	27.7	45.7	71.72	4.67
Philippines	0	0	..	..	63.6	132.4	13.89	6.92	63.6	132.4	-8.68	6.92
Saudi Arabia	0	0	..	..	6.5	17.8	12.73	9.47	6.5	17.8	387.84	9.47
Thailand	0	0	..	..	67.8	94.8	8.28	3.04	67.8	94.8	8.28	3.04
Turkey	43	59	16.88	2.91	0.4	0.7	..	5.24	43.3	60.0	17.22	2.94
Viet Nam	0	0	..	..	35.2	27.0	-1.15	-2.55	35.2	27.0	372.55	-2.55
OCEANIA	147	157	3.08	0.48	45.4	48.2	15.65	0.06	46.9	45.0	-1.55	0.10
Australia	116	124	2.58	0.52	20.9	22.1	7.77	0.00	31.7	29.6	-3.80	-0.02
New Zealand	31	32	5.16	0.31	24.2	25.9	29.46	0.12	15.1	15.4	5.30	0.33
DEVELOPED COUNTRIES	2 835	3 212	1.34	1.15	386.8	397.3	7.49	0.38	1 216.6	1 408.2	3.96	1.43
DEVELOPING COUNTRIES	289	335	2.75	1.34	1 206.8	1 672.2	5.29	3.04	727.2	1 011.4	8.02	3.06
LEAST DEVELOPED COUNTRIES (LDC)	0	0	..	..	22.2	54.0	10.65	8.41	17.7	48.2	120.17	9.42
OECD⁴	2 765	3 133	0.98	1.15	330.1	313.0	4.34	-0.21	1 144.7	1 323.7	3.85	1.41
BRICS	80	80	-1.03	0.10	673.8	909.6	7.29	2.73	7.8	10.0	13.70	1.88

.. Not available

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2017-19est: Data for 2019 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 but includes all EU member countries.

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	422 814	520 494	2.03	1.86	55.5	61.7	0.87	0.96
NORTH AMERICA	25 796	24 346	-1.58	-0.41	70.5	62.4	-2.33	-0.98
Canada	2 872	2 851	-0.76	-0.03	77.0	69.9	-2.01	-0.82
United States	22 924	21 495	-1.68	-0.46	69.8	61.5	-2.37	-1.01
LATIN AMERICA	35 341	41 720	-0.23	1.69	54.6	59.0	-1.24	0.93
Argentina	1 539	1 674	-1.45	0.43	28.5	27.8	-1.80	-0.38
Brazil	14 896	19 310	0.41	2.48	71.4	86.9	-0.43	1.96
Chile	468	521	-9.46	-0.12	25.7	26.6	-10.22	-0.74
Colombia	5 877	6 829	1.20	2.01	118.8	129.1	0.28	1.42
Mexico	3 490	3 294	-1.42	-0.45	27.9	23.8	-2.61	-1.34
Paraguay	491	549	-0.10	0.95	71.2	70.6	-1.40	-0.11
Peru	1 809	2 429	1.97	2.84	55.6	66.6	0.68	1.81
EUROPE	76 372	76 401	-0.17	-0.05	101.3	103.0	-0.37	0.18
European Union ¹	37 401	37 745	0.84	-0.03	82.3	85.4	0.62	0.36
United Kingdom	7 783	7 706	0.67	-0.07	112.5	107.2	-0.28	-0.39
Russia	15 772	16 138	-1.84	0.10	110.6	114.4	-1.83	0.27
Ukraine	7 230	6 844	-1.80	-0.44	164.3	165.1	-1.31	0.11
AFRICA	34 146	44 377	-0.79	2.55	26.8	26.9	-3.29	0.21
Egypt	1 099	1 359	-3.79	2.10	11.1	11.5	-5.76	0.56
Ethiopia	3 065	4 444	-2.60	3.77	28.5	32.5	-5.03	1.56
Nigeria	220	248	1.02	1.20	1.1	1.0	-1.60	-1.28
South Africa	2 147	2 408	0.00	0.94	37.4	37.7	-1.32	-0.01
ASIA	247 711	329 928	4.17	2.51	54.8	67.4	3.17	1.80
China ²	24 738	27 160	-0.47	0.10	17.8	19.3	-0.60	0.03
India	127 100	180 422	6.30	3.06	93.8	120.2	5.06	2.13
Indonesia	1 051	1 250	-0.51	1.76	3.9	4.3	-1.67	0.91
Iran	3 487	3 867	3.16	0.98	42.5	43.7	1.95	0.34
Japan	4 306	4 268	-0.18	-0.11	33.9	35.1	-0.03	0.34
Kazakhstan	4 845	5 051	0.51	0.26	263.3	250.4	-0.91	-0.53
Korea	1 347	1 269	-0.16	-0.44	26.5	25.0	-0.49	-0.43
Malaysia	46	48	-7.97	0.40	1.4	1.3	-9.44	-0.76
Pakistan	35 855	50 201	3.20	3.10	178.5	208.5	1.13	1.46
Philippines	20	23	2.47	1.38	0.2	0.2	0.86	0.02
Saudi Arabia	1 307	1 460	8.73	0.96	39.0	37.4	6.10	-0.36
Thailand	377	355	-10.97	-0.36	5.5	5.1	-11.28	-0.40
Turkey	14 744	17 536	4.50	2.02	180.1	199.4	2.89	1.52
Viet Nam	945	1 422	14.12	3.68	9.8	13.5	12.89	2.85
OCEANIA	3 447	3 722	2.26	0.56	69.3	63.4	-0.96	-0.76
Australia	2 881	3 133	2.04	0.63	103.3	96.0	-0.41	-0.61
New Zealand	537	556	3.64	0.18	43.3	40.8	-5.18	-0.46
DEVELOPED COUNTRIES	134 100	138 765	0.09	0.30	93.3	94.6	-0.40	0.18
DEVELOPING COUNTRIES	288 714	381 729	3.05	2.50	46.8	54.8	1.73	1.40
LEAST DEVELOPED COUNTRIES (LDC)	21 905	28 275	-0.03	2.60	25.3	25.6	-2.34	0.36
OECD³	106 558	109 129	0.45	0.30	75.9	75.5	-0.22	0.12
BRICS	184 653	245 437	3.71	2.41	58.1	72.7	2.94	1.88

Note: Calendar year; except year ending 30 June for Australia and 31 May for New Zealand. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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

Calendar year

	PRODUCTION (kt)		Growth (%) ¹		INVENTORIES ('000 hd)		Growth (%)		YIELD (t/head)		Growth (%)	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	839 528	996 760	2.00	1.56	707 939	782 044	1.03	0.84	1.19	1.27	0.97	0.71
NORTH AMERICA	108 697	119 074	1.57	0.88	10 345	10 395	0.30	0.10	10.51	11.45	1.26	0.79
Canada	10 389	11 629	2.71	0.96	970	962	0.02	-0.07	10.71	12.09	2.69	1.03
United States	98 309	107 445	1.45	0.88	9 375	9 433	0.33	0.11	10.49	11.39	1.12	0.76
LATIN AMERICA	81 271	95 596	1.02	1.55	41 557	44 126	-1.80	0.46	1.96	2.17	2.87	1.08
Argentina	10 323	11 756	-0.68	0.99	1 719	1 699	-0.11	-0.10	6.00	6.92	-0.57	1.10
Brazil	34 947	43 192	2.35	1.95	16 669	18 475	-4.35	0.94	2.10	2.34	7.01	1.00
Chile	2 130	2 250	-2.56	0.17	1 195	1 022	-2.13	-1.57	1.78	2.20	-0.44	1.77
Colombia	6 970	8 090	1.00	1.97	6 697	7 338	2.04	0.51	1.04	1.10	-1.02	1.46
Mexico	12 252	13 139	1.43	0.74	2 526	2 646	0.83	0.44	4.85	4.97	0.60	0.30
Paraguay	506	606	0.03	1.64	225	251	0.47	0.60	2.26	2.42	-0.44	1.04
Peru	2 043	2 750	2.15	2.89	1 209	1 426	1.20	1.44	1.69	1.93	0.94	1.43
EUROPE	225 732	235 709	0.88	0.37	41 128	37 929	-0.77	-0.74	5.49	6.21	1.67	1.12
European Union ²	151 661	158 214	1.31	0.35	20 875	19 430	-0.32	-0.63	7.22	8.09	1.65	0.99
United Kingdom	15 563	16 410	1.13	0.48	1 885	1 889	0.56	0.00	8.26	8.69	0.57	0.47
Russia	30 612	32 940	-0.27	0.59	7 922	7 492	-1.35	-0.51	3.86	4.40	1.10	1.10
Ukraine	10 338	9 712	-1.30	-0.43	2 800	2 242	-3.87	-2.01	3.69	4.33	2.68	1.61
AFRICA	44 079	56 406	-0.76	2.46	227 644	252 922	0.90	0.99	0.19	0.22	-1.65	1.45
Egypt	4 626	5 482	-3.00	2.00	6 841	6 962	0.53	0.43	0.68	0.79	-3.51	1.56
Ethiopia	3 438	4 925	-2.42	3.65	16 401	20 860	2.06	2.15	0.21	0.24	-4.39	1.47
Nigeria	521	639	0.04	2.22	2 291	2 533	1.00	0.77	0.23	0.25	-0.95	1.44
South Africa	3 308	3 929	0.90	1.48	946	957	-0.34	0.04	3.50	4.10	1.25	1.43
ASIA	348 807	458 793	3.67	2.43	380 656	430 302	1.72	0.98	0.92	1.07	1.92	1.43
China ³	35 130	38 037	-0.19	0.53	12 833	12 952	-1.76	-0.41	2.42	2.62	1.94	1.00
India	184 019	254 528	5.37	2.82	140 441	161 556	2.13	1.22	1.31	1.58	3.17	1.58
Indonesia	1 538	1 972	0.40	2.44	14 223	16 519	2.93	1.22	0.11	0.12	-2.46	1.20
Iran	7 612	8 090	-0.64	0.61	20 883	18 655	-1.01	-1.39	0.36	0.43	0.37	2.02
Japan	7 300	7 297	-0.54	-0.01	846	813	-1.35	-0.31	8.63	8.97	0.82	0.30
Kazakhstan	5 530	5 949	0.95	0.63	2 766	2 546	0.30	-0.90	2.00	2.34	0.65	1.54
Korea	2 044	1 957	0.11	-0.35	258	241	0.67	-0.61	7.91	8.11	-0.56	0.26
Malaysia	46	48	-7.97	0.40	51	46	-15.65	-1.39	0.91	1.05	9.10	1.81
Pakistan	45 636	63 696	3.17	3.07	37 135	45 133	2.89	1.65	1.23	1.41	0.28	1.39
Philippines	20	23	2.47	1.38	5	5	-0.31	-0.71	3.70	4.57	2.79	2.11
Saudi Arabia	2 470	2 887	3.55	1.46	4 823	4 880	0.85	-0.11	0.51	0.59	2.68	1.57
Thailand	407	380	-10.45	-0.43	202	169	1.61	-1.98	2.01	2.25	-11.87	1.58
Turkey	21 537	27 627	4.89	2.37	29 369	33 884	5.78	1.06	0.73	0.82	-0.84	1.29
Viet Nam	945	1 422	14.12	3.68	338	430	11.54	2.08	2.79	3.31	2.31	1.57
OCEANIA	30 942	31 182	1.69	0.11	6 610	6 369	0.52	-0.19	4.68	4.90	1.16	0.30
Australia	9 326	8 606	-0.21	-0.53	1 543	1 400	-0.61	-0.53	6.05	6.15	0.41	0.01
New Zealand	21 549	22 499	2.61	0.36	5 012	4 916	0.90	-0.09	4.30	4.58	1.70	0.45
DEVELOPED COUNTRIES	401 312	429 208	1.23	0.62	78 741	77 810	0.13	-0.13	5.10	5.52	1.10	0.75
DEVELOPING COUNTRIES	438 216	567 552	2.76	2.34	629 198	704 234	1.15	0.95	0.70	0.81	1.59	1.37
LEAST DEVELOPED COUNTRIES (LDC)	27 329	35 266	0.02	2.61	219 943	246 897	0.93	1.07	0.12	0.14	-0.90	1.53
OECD⁴	366 080	392 376	1.49	0.66	81 755	85 118	1.92	0.28	4.48	4.61	-0.43	0.38
BRICS	288 017	372 625	3.43	2.23	178 812	201 432	0.88	1.01	1.61	1.85	2.53	1.21

Note: Calendar year, except year ending 30 June for Australia and 31 May for New Zealand. Average 2017-19est: Data for 2019 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 but includes all EU member countries.

Source: OECD/FAO (2020), "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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CANADA												
Milk target price ²	CADc/litre	82.7	86.7	87.9	89.2	90.6	92.0	93.5	95.0	96.5	98.0	99.6
Butter support price	CAD/t	8 107.2	8 488.5	8 643.0	8 763.9	8 904.2	9 040.3	9 187.3	9 337.8	9 487.9	9 636.9	9 784.7
Cheese tariff-quota	kt pw	28.6	38.6	43.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
In-quota tariff	%	0.7	0.7	0.7	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	mIn EUR	852	846	846	846	846	846	846	846	846	846	846
Butter reference price ⁵	EUR/t	2 217.5	2 217.5	2 217.5	2 217.5	2 217.5	2 217.5	2 217.5	2 217.5	2 217.5	2 217.5	2 217.5
SMP reference price	EUR/t	1 400.0	1 400.0	1 400.0	1 400.0	1 400.0	1 400.0	1 400.0	1 400.0	1 400.0	1 400.0	1 400.0
Butter tariff-quota	kt pw	89.9	90.3	90.3	90.4	90.4	90.5	90.5	90.6	90.6	90.7	90.7
Cheese tariff-quotas	kt pw	118.9	119.5	119.9	120.2	120.5	120.8	121.2	121.5	121.8	122.1	122.5
JAPAN												
Direct payments ⁶	JPY/kg	9.0	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
Cheese tariff ⁷	%	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
Tariff-quotas												
Butter	kt pw	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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	%	249.0	299.6	294.3	294.6	296.4	298.3	300.4	302.6	305.3	307.9	310.4
SMP	kt pw	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
In-quota tariff	%	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Out-of-quota tariff	%	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
WMP	kt pw	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
In-quota tariff	%	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Out-of-quota tariff	%	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2
KOREA												
Tariff-quotas												
Butter	kt pw	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
In-quota tariff	%	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Out-of-quota tariff	%	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
SMP	kt pw	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
In-quota tariff	%	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Out-of-quota tariff	%	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0
WMP	kt pw	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
In-quota tariff	%	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Out-of-quota tariff	%	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0
MEXICO												
Butter tariff	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tariff-quotas												
Cheese	kt pw	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
In-quota tariff	%	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Out-of-quota tariff	%	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
SMP	kt pw	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
In-quota tariff	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Out-of-quota tariff	%	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Liconsa social program	mIn MXN	1 241.3	1 260.1	1 260.1	1 260.1	1 260.1	1 260.1	1 260.1	1 260.1	1 260.1	1 260.1	1 260.1
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	%	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
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	%	30.6	36.8	36.1	35.6	35.0	34.4	33.8	33.2	32.7	32.1	31.6
INDIA												
Butter tariff	%	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Cheese tariff	%	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Skim milk powder tariff	%	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
Whole milk powder tariff	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SOUTH AFRICA												
Butter tariff	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cheese tariff	%	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
Skim milk powder tariff	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Whole milk powder tariff	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Note: Average 2017-19est: Data for 2019 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 (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	175 798	200 400	2.30	1.34	42 928	46 721	1.43	0.71	42 558	46 581	1.40	1.07
NORTH AMERICA	6 349	6 680	0.09	0.59	6 201	6 441	1.70	0.27	2 777	2 602	-0.49	-0.48
Canada	1 024	1 099	-0.51	0.64	655	676	0.34	0.15	817	809	-0.29	-0.12
United States	5 325	5 582	0.21	0.58	5 546	5 765	1.87	0.28	1 959	1 793	-0.53	-0.63
LATIN AMERICA	15 529	16 623	-0.21	0.89	2 475	2 937	1.58	1.53	4 611	5 304	2.64	1.19
Argentina	835	896	0.42	0.81	68	60	1.61	0.00	589	627	-0.88	1.09
Brazil	1 312	1 470	0.98	1.05	649	786	-1.44	2.07	55	64	3.16	0.70
Chile	3 304	3 846	-1.44	1.49	150	168	7.37	1.27	1 493	2 240	3.84	3.30
Colombia	204	255	2.93	1.36	226	317	3.03	2.46	42	53	-7.09	-1.31
Mexico	1 909	2 036	1.62	0.64	507	631	6.73	1.92	340	310	5.27	-0.90
Paraguay	25	27	1.82	0.96	5	4	4.05	0.00	0	0	..	..
Peru	5 329	5 254	-1.53	0.67	175	185	6.45	0.56	607	439	-0.48	-1.89
EUROPE	18 223	19 211	1.40	0.61	11 631	12 342	0.12	0.42	10 677	11 708	1.35	0.80
European Union ¹	5 889	6 005	0.74	0.44	8 252	8 657	1.04	0.43	2 740	2 886	1.59	0.40
United Kingdom	909	941	1.38	0.55	1 214	1 203	-0.92	0.16	897	855	0.18	-0.09
Norway	3 757	3 946	0.76	0.48	251	189	1.22	-1.29	2 916	3 035	0.06	0.41
Russia	5 213	5 904	2.66	1.22	809	1 225	-6.40	2.14	2 431	3 248	3.55	2.32
Ukraine	102	113	-10.35	0.00	479	469	-1.78	-1.72	22	22	-19.17	-1.95
AFRICA	12 258	13 641	3.81	1.33	4 668	6 512	1.13	2.68	2 954	2 775	5.23	-0.47
Egypt	1 925	2 541	5.17	2.87	621	1 278	5.43	6.63	49	68	21.05	3.47
Ethiopia	57	68	13.29	1.69	3	5	11.68	2.28	1	0	-15.69	..
Nigeria	1 175	1 263	4.11	0.89	555	703	-13.49	1.35	6	6	-21.77	0.00
South Africa	562	584	-0.38	0.61	320	449	9.42	2.84	169	198	0.11	0.76
ASIA	121 813	142 511	2.79	1.55	17 263	17 731	2.38	0.29	20 601	23 299	0.98	1.63
China ²	62 240	72 392	2.66	1.67	4 525	4 780	4.34	-0.43	8 149	8 554	0.77	1.63
India	12 391	15 371	5.46	1.44	59	106	12.59	3.31	1 348	1 340	4.78	0.49
Indonesia	12 342	14 697	5.54	1.97	185	208	-5.03	2.85	1 226	1 547	-0.32	2.54
Iran	1 254	1 527	7.77	1.65	48	10	-10.71	0.00	137	113	12.80	1.25
Japan	3 786	3 542	-2.46	-0.80	3 560	3 232	-0.83	-0.37	671	740	0.35	0.93
Kazakhstan	37	39	-0.78	0.11	77	86	-0.71	1.70	34	29	-1.73	0.15
Korea	1 903	1 847	-1.88	-0.35	1 820	1 946	2.58	0.67	580	672	-2.70	0.48
Malaysia	1 680	1 827	-0.52	0.88	600	579	1.88	-0.61	325	314	0.40	-1.05
Pakistan	668	691	1.41	0.70	10	9	18.29	0.00	237	253	5.09	0.28
Philippines	2 856	3 207	-1.05	0.55	541	548	12.57	-0.07	406	418	1.60	0.30
Saudi Arabia	140	186	7.50	1.76	305	349	1.35	1.75	63	68	7.26	3.47
Thailand	2 479	2 744	-2.85	1.18	1 997	2 074	2.36	0.40	1 741	2 107	-4.85	1.93
Turkey	632	683	-0.61	0.75	115	142	3.82	3.67	247	349	13.47	2.83
Viet Nam	7 452	9 389	5.08	2.09	514	503	13.95	0.58	3 078	4 195	5.17	2.90
OCEANIA	1 626	1 734	2.09	0.69	690	759	0.66	1.02	939	894	1.39	-0.29
Australia	280	354	1.49	2.13	485	528	0.31	1.13	62	48	1.60	-1.78
New Zealand	529	557	-0.50	0.49	54	55	-1.23	0.00	425	432	-0.67	0.40
DEVELOPED COUNTRIES	30 101	31 410	0.58	0.46	22 599	23 392	0.48	0.35	14 839	15 778	0.86	0.56
DEVELOPING COUNTRIES	145 697	168 990	2.69	1.52	20 345	23 329	2.55	1.09	27 725	30 803	1.70	1.33
LEAST DEVELOPED COUNTRIES (LDC)	13 670	16 018	3.77	1.78	1 435	1 739	9.71	1.41	1 889	1 888	7.40	-0.35
OECD³	29 473	30 714	-0.26	0.45	23 164	23 883	1.06	0.38	13 189	14 224	0.70	0.64
BRICS	81 716	95 721	2.99	1.59	6 362	7 346	2.02	0.43	12 151	13 404	1.68	1.65

.. 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 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	16 902	16 686	0.39	0.44	155 109	180 416	2.50	1.41	20.4	21.4	1.32	0.47
NORTH AMERICA	1 095	1 161	1.84	0.06	8 159	8 841	1.21	0.80	22.4	22.8	0.47	0.22
Canada	24	38	-7.40	0.33	824	910	0.57	1.01	22.2	22.4	-0.44	0.22
United States	1 070	1 123	2.16	0.05	7 335	7 931	1.28	0.77	22.4	22.8	0.58	0.22
LATIN AMERICA	6 025	5 849	-3.47	0.51	6 834	7 987	2.40	1.41	10.6	11.4	1.33	0.63
Argentina	0	0	0.00	0.00	315	330	3.34	0.17	7.1	6.8	2.30	-0.66
Brazil	59	63	-2.89	-0.01	1 847	2 129	0.27	1.46	8.8	9.5	-0.57	0.92
Chile	1 431	1 364	-5.91	0.07	233	250	-0.60	0.43	12.8	12.8	-1.44	-0.19
Colombia	0	0	0.00	0.00	388	519	4.82	2.35	7.8	9.8	3.87	1.76
Mexico	196	278	-11.09	2.57	1 882	2 079	4.55	1.03	14.9	14.9	3.26	0.13
Paraguay	0	0	0.00	0.00	29	31	2.15	0.83	4.2	4.0	0.82	-0.23
Peru	4 086	3 915	-2.02	0.57	834	1 085	3.25	2.28	25.6	29.7	1.94	1.25
EUROPE	2 633	2 391	3.98	-0.19	16 120	17 057	0.31	0.48	21.6	22.9	0.15	0.56
European Union ¹	686	515	-0.58	-1.12	10 506	11 061	1.02	0.53	23.6	25.0	0.88	0.61
United Kingdom	0	0	0.00	0.00	1 220	1 289	-0.27	0.62	18.2	18.3	-0.94	0.24
Norway	743	697	7.17	0.07	292	337	1.44	1.05	54.7	57.8	0.35	0.23
Russia	478	479	5.28	0.22	3 046	3 332	-1.13	0.71	20.9	23.2	-1.32	0.89
Ukraine	0	0	-32.77	0.00	559	561	-2.53	-1.39	12.7	13.5	-2.04	-0.84
AFRICA	918	1 016	4.24	1.31	13 009	16 311	2.64	2.21	10.2	9.9	0.06	-0.13
Egypt	0	0	0.00	0.00	2 497	3 752	5.03	4.01	25.1	31.8	2.88	2.44
Ethiopia	0	0	0.00	0.00	59	73	14.57	1.73	0.5	0.5	11.70	-0.44
Nigeria	0	0	0.00	0.00	1 724	1 960	-4.32	1.06	8.8	7.6	-6.81	-1.42
South Africa	308	381	2.63	2.44	405	453	3.26	1.09	7.1	7.1	1.89	0.14
ASIA	6 102	6 139	2.93	0.59	109 896	128 886	2.95	1.48	24.3	26.2	1.92	0.77
China ²	1 982	1 975	-1.38	0.79	55 701	65 843	3.12	1.60	39.0	45.0	2.59	1.41
India	766	765	14.62	0.00	9 997	13 022	5.47	1.69	7.4	8.7	4.24	0.77
Indonesia	62	70	18.61	0.00	11 212	13 274	6.02	1.94	42.0	45.2	4.78	1.08
Iran	162	162	12.02	1.18	1 003	1 262	5.62	1.74	12.2	14.3	4.39	1.10
Japan	700	497	-0.80	-1.07	5 774	5 336	-1.96	-0.77	45.4	43.9	-1.82	-0.32
Kazakhstan	0	0	0.00	0.00	76	96	-0.91	1.52	4.1	4.7	-2.31	0.72
Korea	118	130	-1.90	0.00	2 878	2 917	0.44	0.19	56.2	57.0	0.05	0.20
Malaysia	155	110	6.35	-1.68	1 794	1 987	0.75	0.91	56.0	54.5	-0.85	-0.25
Pakistan	120	107	2.70	-0.21	322	340	-1.05	1.33	1.6	1.4	-3.03	-0.28
Philippines	0	0	0.00	0.00	2 991	3 337	0.14	0.48	28.1	26.9	-1.44	-0.87
Saudi Arabia	0	0	0.00	0.00	383	467	2.42	1.52	11.4	12.0	-0.06	0.20
Thailand	390	280	-3.12	-2.25	2 111	2 371	2.70	1.24	30.5	34.0	2.35	1.20
Turkey	131	131	-2.08	1.10	367	341	-3.85	-0.19	4.5	3.9	-5.33	-0.68
Viet Nam	1 126	1 443	15.72	2.14	3 616	4 153	2.73	1.46	37.5	39.3	1.63	0.65
OCEANIA	129	129	0.89	0.41	1 091	1 334	1.75	1.91	26.9	28.9	0.23	0.74
Australia	55	52	1.72	1.31	648	783	0.57	1.78	26.0	28.0	-0.85	0.76
New Zealand	42	53	-3.55	-0.21	115	127	0.40	0.88	24.1	24.7	-0.61	0.17
DEVELOPED COUNTRIES	4 928	4 635	2.64	-0.01	31 724	33 264	0.17	0.43	22.3	22.8	-0.26	0.22
DEVELOPING COUNTRIES	11 974	12 051	-0.41	0.63	123 385	147 152	3.17	1.64	20.0	21.1	1.81	0.54
LEAST DEVELOPED COUNTRIES (LDC)	644	683	11.32	0.94	12 417	15 036	3.43	2.10	14.4	13.6	1.03	-0.13
OECD³	5 198	4 878	-1.77	-0.03	32 811	34 273	0.52	0.45	23.7	23.9	-0.04	0.16
BRICS	3 593	3 664	1.85	0.69	70 997	84 779	3.13	1.57	22.2	25.0	2.29	1.04

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 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "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 2017-19est	2029	2020-29	Average 2017-19est	2029	2020-29	Average 2017-19est	2029	2020-29
WORLD	124 883	140 077	0.75	124 747	140 245	0.78	..	..	..
NORTH AMERICA	61 999	65 521	0.44	58 595	62 945	0.58	..	..	..
Canada	1 808	2 040	0.49	3 165	3 136	-0.18	3 161	3 124	-0.18
United States	60 191	63 481	0.44	55 430	59 809	0.62	54 581	59 066	0.63
LATIN AMERICA	37 163	44 767	1.29	37 041	44 434	1.27	..	..	..
Argentina	1 093	1 462	3.21	1 076	1 451	3.19	1 062	1 418	3.19
Brazil	32 714	39 025	1.26	31 935	38 489	1.25	29 276	35 367	1.28
Chile	4	7	5.56	28	20	1.60	0	0	0.00
Colombia	506	686	1.11	764	1 004	0.51	643	895	0.56
Mexico	219	223	-0.50	371	383	0.22	172	186	0.61
Paraguay	468	800	1.60	403	540	1.42	348	443	1.74
Peru	207	275	2.47	255	291	2.32	194	255	2.38
EUROPE	8 144	7 970	-0.69	8 632	8 887	-0.29	..	..	..
European Union ¹	6 134	6 164	-0.51	6 435	6 580	-0.05	4 630	4 730	-0.07
United Kingdom	830	561	-4.67	1 029	1 054	-2.53	755	775	-3.32
Russia	644	614	-0.16	518	505	-0.31	0	0	0.00
Ukraine	375	472	1.85	367	462	1.89	185	241	2.13
AFRICA	997	1 241	2.03	980	1 140	2.23	..	..	..
Egypt	10	13	3.06	9	14	3.00	0	0	0.00
Ethiopia	109	167	3.75	109	167	3.75	38	70	4.40
Nigeria	40	66	3.00	163	138	1.32	0	0	0.00
South Africa	317	331	0.34	116	134	0.87	5	5	0.60
ASIA	16 273	20 308	1.10	19 211	22 574	0.80	..	..	..
China ²	10 067	12 074	0.68	10 576	12 105	0.68	3 725	5 048	1.48
India	2 633	4 242	2.40	3 063	4 568	1.71	1 388	2 853	2.82
Indonesia	192	230	1.96	134	176	2.64	1	1	2.78
Iran	0	0	..	0	0	..	0	0	0.00
Japan	20	0	..	1 527	1 271	-1.53	895	678	-2.69
Kazakhstan	0	0	..	0	0	..	0	0	0.00
Korea	150	148	-0.39	564	593	-0.02	5	4	-3.27
Malaysia	0	0	..	0	0	..	0	0	0.00
Pakistan	600	432	0.41	19	20	0.09	0	0	0.00
Philippines	320	525	4.08	760	971	2.00	590	739	1.64
Saudi Arabia	0	6	28.10	73	49	1.23	0	0	0.00
Thailand	1 789	1 980	0.48	1 795	1 983	0.51	1 534	1 741	0.57
Turkey	114	139	1.47	214	236	0.84	97	93	-0.37
Viet Nam	220	289	0.49	215	285	1.08	109	175	1.75
OCEANIA	307	270	-0.04	289	264	-0.46	..	..	..
Australia	298	262	-0.08	283	258	-0.51	216	203	-0.64
New Zealand	3	1	0.00	0	0	..	0	0	0.00
DEVELOPED COUNTRIES	70 786	74 096	0.31	69 187	73 521	0.43	..	..	..
DEVELOPING COUNTRIES	54 096	65 981	1.25	55 560	66 724	1.19	..	..	..
LEAST DEVELOPED COUNTRIES (LDC)	362	482	2.99	366	483	2.99	..	..	..
OECD³	70 320	73 745	0.31	70 025	74 544	0.42	..	..	..
BRICS	46 375	56 285	1.19	46 209	55 801	1.15	..	..	..

.. Not available

Note: Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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 2017-19est	2029	Average 2017-19est	2029	2020-29	Average 2017-19est	2029	2020-29
WORLD	..	..	11 148	9 687	-1.01	10 716	9 687	-1.01
NORTH AMERICA	..	..	2 596	2 337	-1.74	5 940	4 934	-2.12
Canada	6.1	6.7	1 420	1 186	-1.21	89	90	0.00
United States	9.7	11.2	1 177	1 151	-2.27	5 851	4 844	-2.16
LATIN AMERICA	..	..	3 069	2 631	-0.12	2 370	2 960	0.31
Argentina	11.1	12.5	16	8	4.94	12	20	5.13
Brazil	46.2	49.9	1 686	1 428	-0.22	1 665	1 959	0.19
Chile	..	..	24	14	0.00	1	0	..
Colombia	..	..	262	324	-0.67	3	6	0.08
Mexico	0.4	0.5	155	162	1.30	3	2	-0.01
Paraguay	..	..	1	0	..	67	260	1.99
Peru	..	..	192	206	0.00	143	191	0.00
EUROPE	..	..	1 614	1 643	-1.13	1 231	876	0.13
European Union ¹	5.3	7.3	787	772	-2.53	663	507	0.12
United Kingdom	4.5	6.0	657	703	0.40	399	210	-0.02
Russia	0.0	0.0	2	2	-1.62	114	111	0.57
Ukraine	..	..	0	0	..	8	10	0.00
AFRICA	..	..	213	118	0.00	231	219	0.00
Egypt	..	..	1	1	0.00	2	1	0.00
Ethiopia	..	..	0	0	..	0	0	..
Nigeria	..	..	123	72	0.00	0	0	..
South Africa	..	..	11	4	0.00	212	200	0.00
ASIA	..	..	3 640	2 933	-1.14	922	667	0.43
China ²	2.2	2.3	388	113	0.83	95	83	0.37
India	..	..	538	411	-3.44	107	84	3.06
Indonesia	..	..	34	1	0.00	92	55	0.00
Iran	..	..	0	0	..	0	0	..
Japan	1.8	1.8	1 498	1 273	-1.52	1	2	0.00
Kazakhstan	..	..	0	0	..	0	0	..
Korea	0.0	0.0	419	445	0.10	0	0	..
Malaysia	..	..	0	0	..	0	0	..
Pakistan	..	..	0	0	..	581	412	0.42
Philippines	..	..	440	447	0.00	0	1	0.00
Saudi Arabia	..	..	73	44	0.00	0	0	..
Thailand	..	..	24	20	1.90	18	17	-1.48
Turkey	..	..	100	98	0.00	1	0	0.00
Viet Nam	..	..	18	6	8.42	23	10	-7.84
OCEANIA	..	..	15	26	-1.87	23	31	0.20
Australia	1.2	1.2	14	25	-1.93	19	30	0.21
New Zealand	0.0	0.0	1	1	0.00	4	1	0.00
DEVELOPED COUNTRIES	..	..	5 766	5 299	-1.50	7 410	6 045	-1.75
DEVELOPING COUNTRIES	..	..	5 381	4 388	-0.39	3 306	3 642	0.33
LEAST DEVELOPED COUNTRIES (LDC)	..	..	5	1	0.00	1	1	0.00
OECD³	..	..	6 687	6 321	-1.27	7 034	5 694	-1.86
BRICS	..	..	2 625	1 958	-0.91	2 193	2 437	0.29

.. Not available

Note: Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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Table C.41.1. Biodiesel projections: Production and use

Calendar year

	PRODUCTION (mln L)		Growth (%) ⁴	DOMESTIC USE (mln L)		Growth (%) ⁴
	Average 2017-19est	2029	2020-29	Average 2017-19est	2029	2020-29
WORLD	43 138	45 631	-0.51	43 630	46 696	-0.50
NORTH AMERICA	8 722	8 701	-2.57	10 033	9 764	-2.14
Canada	315	372	0.09	391	436	-0.19
United States	8 407	8 328	-2.67	9 642	9 328	-2.22
LATIN AMERICA	8 686	10 586	1.84	7 390	8 766	1.39
Argentina	2 840	3 465	2.56	1 295	1 389	1.13
Brazil	5 164	6 254	1.51	5 134	6 235	1.50
Chile	0	0	..	0	0	..
Colombia	614	733	0.80	614	733	0.80
Mexico	0	0	..	0	0	..
Paraguay	12	23	6.02	12	23	6.02
Peru	56	111	6.10	335	385	1.43
EUROPE	15 522	13 908	-1.22	17 359	15 648	-1.48
European Union ¹	14 732	12 952	-1.36	16 063	14 317	-1.48
United Kingdom	481	621	1.00	986	995	-2.12
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	10 168	12 377	0.14	8 807	12 458	1.10
China ²	959	1 106	2.25	1 172	1 359	1.00
India	179	204	0.26	177	226	2.06
Indonesia	5 287	7 009	-0.02	4 241	6 971	1.27
Iran	0	0	..	0	0	..
Japan	17	19	0.35	12	15	1.82
Kazakhstan	0	0	..	0	0	..
Korea	700	651	-0.44	676	629	-0.42
Malaysia	1 242	1 217	-1.14	750	1 102	1.77
Pakistan	0	0	..	0	0	..
Philippines	211	298	3.08	211	298	3.08
Saudi Arabia	0	0	..	0	0	..
Thailand	1 573	1 871	0.29	1 568	1 859	0.32
Turkey	0	0	..	0	0	..
Viet Nam	0	0	..	0	0	..
OCEANIA	40	59	3.64	41	60	3.55
Australia	40	59	3.64	41	60	3.55
New Zealand	0	0	..	0	0	..
DEVELOPED COUNTRIES	24 301	22 687	-1.74	27 445	25 487	-1.72
DEVELOPING COUNTRIES	18 837	22 944	0.89	16 185	21 209	1.22
LEAST DEVELOPED COUNTRIES (LDC)	0	0	..	0	0	..
OECD³	25 615	24 071	-1.64	28 735	26 849	-1.63
BRICS	6 302	7 564	1.58	6 483	7 820	1.43

.. Not available

Note: Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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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 2017-19est	2029	Average 2017-19est	2029	2020-29	Average 2017-19est	2029	2020-29
WORLD	..	..	6 838	5 412	-2.95	6 132	4 405	-3.51
NORTH AMERICA	..	..	1 971	1 833	0.97	762	769	-0.55
Canada	1.3	1.5	420	301	-2.29	342	237	-2.44
United States	4.1	4.3	1 551	1 532	1.75	420	532	0.43
LATIN AMERICA	..	..	279	274	0.00	1 567	2 094	3.59
Argentina	14.7	15.0	0	0	..	1 556	2 076	3.59
Brazil	11.0	11.7	0	0	..	11	18	4.03
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	..	..	279	274	0.00	0	0	..
EUROPE	..	..	3 979	2 439	-5.85	1 834	759	-9.78
European Union ¹	7.6	9.2	3 436	1 990	-6.06	1 774	684	-10.45
United Kingdom	3.3	3.8	542	448	-4.85	60	74	1.50
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	..	..	608	865	-0.81	1 970	783	-9.37
China ²	1.0	1.3	590	833	-1.07	377	580	0.00
India	..	..	15	29	12.49	17	8	-11.15
Indonesia	..	..	0	0	..	1 046	39	-28.57
Iran	..	..	0	0	..	0	0	..
Japan	0.0	0.1	1	1	-0.04	6	5	-3.19
Kazakhstan	..	..	0	0	..	0	0	..
Korea	0.0	0.0	0	0	..	24	22	-0.83
Malaysia	..	..	0	0	..	492	115	-12.76
Pakistan	..	..	0	0	..	0	0	..
Philippines	..	..	0	0	..	0	0	..
Saudi Arabia	..	..	0	0	..	0	0	..
Thailand	..	..	2	2	2.23	7	15	-2.79
Turkey	..	..	0	0	..	0	0	..
Viet Nam	..	..	0	0	..	0	0	..
OCEANIA	..	..	1	1	-0.23	0	0	..
Australia	0.4	0.6	1	1	-0.24	0	0	..
New Zealand	0.0	0.0	0	0	..	0	0	..
DEVELOPED COUNTRIES	..	..	5 952	4 274	-3.48	2 602	1 533	-6.22
DEVELOPING COUNTRIES	..	..	886	1 138	-0.62	3 530	2 872	-1.71
LEAST DEVELOPED COUNTRIES (LDC)	..	..	0	0	..	0	0	..
OECD³	..	..	5 952	4 274	-3.48	2 626	1 555	-6.16
BRICS	..	..	605	862	-0.82	405	606	-0.16

.. Not available

Note: Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "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

		2019est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ARGENTINA												
Biodiesel												
Export tax	%	15.0	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}	%	9.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Biodiesel												
Blending target ²	%	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
EUROPEAN UNION												
Biofuel												
Energy share in fuel consumption ⁶	%	7.4	7.7	7.9	8.0	8.2	8.3	8.5	8.7	9.0	9.2	9.4
Ethanol												
Tax concessions ⁴	EUR/hl	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
Import tariff	EUR/hl	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
Biodiesel												
Tax concessions ⁴	EUR/hl	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
Import tariff	%	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
INDIA												
Ethanol												
Import tariff	%	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Share of biofuel mandates in total fuel consumption	%	5.0	5.7	6.4	7.3	8.3	9.4	10.7	12.1	13.7	15.5	17.6
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	%	..	..	..	..	..	..	..	..	..	..	..
MALAYSIA												
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
THAILAND												
Ethanol												
Blending target ²	%	13.5	8.2	8.2	8.2	8.3	8.3	8.3	8.3	8.4	8.4	8.4
Biodiesel												
Blending target ²	%	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
UNITED STATES												
Renewable Fuel Standard⁷												
Total	mln L	75 405	76 049	76 049	76 049	76 049	76 049	76 049	76 049	76 049	76 049	76 049
advanced mandate	mln L	18 624	19 268	19 268	19 268	19 268	19 268	19 268	19 268	19 268	19 268	19 268
cellulosic ethanol	mln L	1 582	2 233	2 233	2 233	2 233	2 233	2 233	2 233	2 233	2 233	2 233
Ethanol												
Import surcharge	USD/hl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Import tariff (undenatured)	%	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
Import tariff (denatured)	%	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
Blender tax credit	USD/hl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Biodiesel												
Import tariff	%	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60
Blender tax credit	USD/hl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Note: 2019est: Data for 2019 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 (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	26 242	29 829	-0.63	1.47	9 097	11 186	-0.18	2.12	9 238	11 326	-0.05	2.09
NORTH AMERICA	4 310	4 602	2.24	1.41	1	0	-22.58	..	3 384	3 987	2.64	1.53
Canada	0	0	..	..	0	0	-16.76	..	0	0	..	..
United States	4 310	4 602	2.24	1.41	1	0	-43.00	..	3 384	3 987	2.64	1.53
LATIN AMERICA	3 156	3 835	3.81	2.30	310	297	-6.14	0.29	1 446	2 681	7.92	3.96
Argentina	250	287	0.44	1.27	1	1	-19.67	0.00	91	110	3.80	0.40
Brazil	2 482	3 096	4.36	2.67	8	3	-18.89	0.02	1 281	2 478	8.84	4.24
Chile	0	0	..	..	0	0	..	..	0	0	..	..
Colombia	13	17	-12.45	0.00	26	23	-5.28	0.00	0	0	-55.45	..
Mexico	373	396	7.30	0.62	149	148	-7.11	0.46	70	88	2.84	2.07
Paraguay	4	5	-16.86	1.47	2	1	67.88	-1.25	3	4	-13.32	1.27
Peru	22	22	-7.96	0.16	43	37	-5.52	-0.15	1	1	-8.80	0.05
EUROPE	282	295	-0.67	0.51	335	351	-4.13	0.10	433	450	-0.13	0.31
European Union ¹	281	294	-0.68	0.51	278	292	-2.86	0.06	432	449	-0.14	0.31
United Kingdom	0	0	..	..	0	0	..	..	0	0	..	..
Russia	0	0	..	..	40	40	-10.60	0.00	0	0	47.96	..
Ukraine	0	0	..	..	2	2	-6.72	1.49	0	0	..	..
AFRICA	1 828	2 513	4.45	2.59	174	205	1.82	0.01	1 588	2 289	5.85	2.63
Egypt	100	83	-5.98	0.51	129	169	11.47	0.15	74	81	0.61	-0.15
Ethiopia	58	77	11.60	1.89	0	0	-74.44	..	7	0	19.06	-29.49
Nigeria	51	51	-1.08	0.00	1	1	-13.33	0.00	25	25	-6.51	0.00
South Africa	42	49	17.69	1.02	15	10	-3.29	-0.29	21	36	12.62	0.29
ASIA	16 053	17 887	-2.06	1.03	8 276	10 332	0.37	2.30	1 719	1 230	-8.16	-1.84
China ²	5 961	6 198	-2.96	0.60	1 685	1 905	-11.69	1.18	35	39	11.89	0.16
India	5 900	6 834	-0.84	1.30	352	387	15.59	0.32	944	815	-7.70	-0.32
Indonesia	3	5	-8.21	1.77	719	956	3.80	2.95	1	0	-61.22	..
Iran	52	57	-2.28	1.33	69	71	1.42	0.70	0	0	..	..
Japan	0	0	..	..	53	48	-4.56	-0.70	0	0	..	..
Kazakhstan	76	78	0.27	0.00	0	0	..	..	56	65	-1.59	0.00
Korea	0	0	..	..	176	174	-5.12	0.96	1	0	56.71	..
Malaysia	0	0	..	..	166	200	4.41	1.47	58	62	-3.37	-1.45
Pakistan	1 713	2 107	-3.14	1.49	698	638	14.77	-0.63	41	32	-19.49	0.28
Philippines	0	0	..	..	14	21	5.03	4.04	0	0	..	..
Saudi Arabia	0	0	..	..	0	0	..	..	0	0	..	..
Thailand	1	2	0.25	2.52	242	240	-4.44	-0.05	0	0	..	..
Turkey	908	1 108	1.72	1.51	759	972	1.01	2.70	85	52	9.71	-2.63
Viet Nam	0	0	-31.70	..	1 525	2 192	20.06	3.54	0	0	..	..
OCEANIA	613	697	-9.46	6.80	1	1	-1.26	0.00	668	690	-5.67	8.25
Australia	612	696	-9.47	6.81	0	0	..	..	667	689	-5.68	8.26
New Zealand	1	1	0.00	0.00	1	1	0.00	0.00	1	1	0.00	0.00
DEVELOPED COUNTRIES	6 534	6 957	-0.23	1.60	408	413	-4.21	0.01	5 038	5 376	-0.58	1.57
DEVELOPING COUNTRIES	19 708	22 872	-0.76	1.43	8 689	10 773	0.07	2.21	4 200	5 951	0.76	2.57
LEAST DEVELOPED COUNTRIES (LDC)	1 393	2 020	4.39	3.06	1 669	2 379	9.01	3.84	1 120	1 699	7.53	3.35
OECD³	6 509	7 125	0.82	1.75	1 446	1 660	-2.12	1.64	4 650	5 277	1.01	2.05
BRICS	14 385	16 177	-1.02	1.27	2 101	2 345	-9.49	1.00	2 281	3 367	-0.65	2.83

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.43.2. Cotton projections: Consumption

Marketing year

	CONSUMPTION (kt) ⁴		Growth (%) ⁵	
	Average 2017-19est	2029	2010-19	2020-29
WORLD	26 168	30 130	1.37	1.35
NORTH AMERICA	669	589	-2.39	-1.03
Canada	0	0	-18.30	..
United States	668	589	-2.36	-1.03
LATIN AMERICA	1 507	1 433	-2.21	-0.70
Argentina	161	170	0.09	0.05
Brazil	715	612	-3.68	-1.82
Chile	0	0	..	..
Colombia	40	40	-8.52	0.00
Mexico	438	454	1.38	0.30
Paraguay	3	2	-12.76	-0.04
Peru	59	58	-7.43	-0.04
EUROPE	189	197	-6.97	0.71
European Union ¹	132	138	-5.25	0.91
United Kingdom	0	0	..	..
Russia	41	40	-11.93	-0.09
Ukraine	2	2	-8.90	1.49
AFRICA	372	430	0.79	1.09
Egypt	157	172	2.52	0.46
Ethiopia	49	77	4.50	3.03
Nigeria	28	28	5.06	0.00
South Africa	19	23	-0.66	1.61
ASIA	23 423	27 475	1.88	1.53
China ²	8 317	8 550	-0.52	0.42
India	5 453	6 406	2.64	1.47
Indonesia	729	961	3.60	2.94
Iran	116	128	-1.02	0.97
Japan	53	48	-4.34	-0.43
Kazakhstan	13	13	0.15	0.00
Korea	178	175	-4.60	0.97
Malaysia	108	138	20.75	3.13
Pakistan	2 389	2 713	0.98	0.97
Philippines	13	21	3.94	4.04
Saudi Arabia	0	0	..	..
Thailand	242	242	-4.71	-0.04
Turkey	1 544	2 029	2.23	2.21
Viet Nam	1 514	2 193	19.77	3.54
OCEANIA	7	7	-4.00	-0.03
Australia	6	6	-4.55	-0.03
New Zealand	1	1	0.00	0.00
DEVELOPED COUNTRIES	1 708	1 968	0.33	1.10
DEVELOPING COUNTRIES	24 460	28 162	1.44	1.36
LEAST DEVELOPED COUNTRIES (LDC)	1 913	2 700	7.17	3.55
OECD³	3 063	3 482	-0.27	1.15
BRICS	14 545	15 630	0.30	0.73

.. Not available

Note: Marketing year: See Glossary of Terms for definitions. Average 2017-19est: Data for 2019 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 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 (2020), "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 2017-19est	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ARGENTINA												
Export tax equivalent of export barriers	%	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tariff equivalent of import barriers	%	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
BRAZIL												
Producer Minimum Price, lint cotton	BRL/t	5 097.1	5 748.4	5 864.5	5 864.5	5 864.5	5 946.2	6 104.0	6 265.2	6 466.7	6 679.6	6 900.0
Tariff equivalent of import barriers	%	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
EUROPEAN UNION												
Area for coupled payment	kha	301.7	301.7	301.7	301.7	301.7	301.7	301.7	301.7	301.7	301.7	301.7
Coupled payment per ha ¹	EUR/ha	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0
Tariff equivalent of import barriers	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
JAPAN												
Tariff equivalent of import barriers	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KOREA												
Tariff equivalent of import barriers	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEXICO												
Tariff equivalent of import barriers	%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUSSIA												
Tariff equivalent of import barriers	%	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UNITED STATES												
Economic Adjustment Assistance payment level	USD/t	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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 2017-19est: Data for 2019 are estimated.

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

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

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

Calendar year

	PRODUCTION (kt)		Growth (%) ⁴		FOOD CONSUMPTION (kg/cap)		Growth (%) ⁴	
	Average 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	232 375	273 950	2.52	1.46	16.3	17.7	0.90	0.79
NORTH AMERICA	5 498	5 687	1.18	0.20	12.5	12.2	0.39	-0.30
Canada	956	993	1.01	0.31	16.3	15.9	0.67	-0.48
United States	4 541	4 694	1.22	0.17	12.0	11.8	0.34	-0.29
LATIN AMERICA	14 015	15 545	-0.51	1.00	12.1	12.6	-0.66	0.44
Argentina	611	680	1.04	0.92	9.3	9.4	-0.58	0.05
Brazil	6 249	6 056	-3.83	-0.02	12.4	11.4	-3.95	-0.50
Chile	273	326	1.15	1.27	14.2	15.6	1.61	0.75
Colombia	1 348	1 778	3.29	2.22	22.0	25.9	2.32	1.35
Mexico	401	470	0.61	1.17	3.4	3.4	-0.22	0.07
Paraguay	989	1 136	4.65	1.09	41.0	36.8	-0.05	-1.02
Peru	1 647	2 036	3.23	1.89	32.5	36.8	2.04	1.04
EUROPE	26 469	24 636	1.20	-0.42	17.0	16.6	-0.25	-0.21
European Union ¹	11 444	9 314	0.08	-1.50	13.8	12.6	-1.34	-0.68
United Kingdom	1 238	1 262	0.19	0.18	17.0	16.6	-0.63	-0.15
Russia	7 004	6 598	3.88	-0.36	24.3	25.2	1.54	0.21
Ukraine	5 162	5 668	2.61	0.90	27.8	29.4	1.45	0.61
AFRICA	89 920	115 916	3.68	2.27	39.6	41.8	1.30	0.57
Egypt	1 136	1 429	2.73	2.30	8.1	9.3	0.73	1.31
Ethiopia	2 414	3 110	5.27	2.14	18.8	19.1	1.87	0.02
Nigeria	31 598	41 606	3.44	2.39	68.8	74.3	0.95	0.64
South Africa	489	602	1.25	1.93	5.9	6.3	-1.30	0.68
ASIA	95 380	110 873	2.48	1.24	10.4	10.8	0.32	0.33
China ²	42 773	45 677	1.57	0.39	15.3	15.4	-0.06	0.04
India	13 375	16 890	3.18	1.98	7.1	8.0	1.16	1.03
Indonesia	9 334	11 190	2.09	1.25	18.7	19.4	1.22	0.30
Iran	966	1 095	0.72	1.01	10.1	10.7	0.16	0.31
Japan	746	727	-0.95	-0.08	6.3	6.3	-0.47	0.03
Kazakhstan	775	907	4.24	1.41	22.3	25.0	0.41	1.04
Korea	261	242	3.69	-0.80	5.1	5.3	4.33	0.05
Malaysia	38	46	7.90	1.71	3.5	4.0	2.28	1.00
Pakistan	1 026	1 327	3.82	2.43	3.9	4.6	1.51	1.65
Philippines	1 040	1 249	2.92	1.65	9.5	9.8	1.19	0.17
Saudi Arabia	79	97	-1.13	1.59	4.7	5.3	9.34	1.00
Thailand	10 639	13 714	5.36	2.45	5.3	5.2	-0.15	-0.37
Turkey	758	829	-2.58	0.86	6.9	6.1	-5.32	-0.98
Viet Nam	4 088	4 969	3.48	1.92	3.9	3.9	0.01	0.27
OCEANIA	1 093	1 292	1.30	1.52	22.5	23.1	-0.45	0.17
Australia	251	274	-0.37	0.83	10.3	9.3	-1.48	-0.88
New Zealand	135	149	2.90	1.38	11.9	12.5	-0.34	0.53
DEVELOPED COUNTRIES	35 984	34 965	1.26	-0.10	14.0	13.7	-0.17	-0.20
DEVELOPING COUNTRIES	196 392	238 985	2.76	1.71	16.8	18.5	1.10	0.92
LEAST DEVELOPED COUNTRIES (LDC)	44 644	57 393	4.05	2.32	32.2	34.4	2.03	0.78
OECD³	22 629	21 349	0.43	-0.38	11.4	11.0	-0.60	-0.29
BRICS	69 889	75 824	1.45	0.63	11.9	12.1	-0.09	0.16

Note: Calendar year. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "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 2017-19est	2029	2010-19	2020-29	Average 2017-19est	2029	2010-19	2020-29
WORLD	86 430	102 645	2.86	1.54	7.7	8.3	1.92	0.54
NORTH AMERICA	10 282	12 012	4.40	1.37	5.8	6.3	3.75	0.46
Canada	7 548	8 838	4.78	1.38	14.9	15.6	4.51	0.20
United States	2 735	3 174	3.72	1.33	4.8	5.2	3.47	0.50
LATIN AMERICA	8 028	8 818	2.61	1.18	11.2	11.1	0.63	-0.26
Argentina	668	914	5.92	2.97	0.9	1.1	12.85	1.63
Brazil	3 123	3 511	-0.09	1.30	16.2	16.9	-0.18	0.43
Chile	74	84	-0.68	1.09	4.9	5.4	4.13	0.72
Colombia	214	277	1.67	2.02	6.7	6.3	-0.14	-0.77
Mexico	1 922	1 653	6.66	-0.71	10.2	6.8	1.93	-4.55
Paraguay	89	104	4.44	1.29	11.1	10.9	3.89	-0.29
Peru	303	360	2.18	2.22	9.4	10.4	2.25	0.96
EUROPE	7 702	10 288	3.48	2.56	3.1	3.5	5.68	0.82
European Union ¹	3 597	5 344	6.12	3.46	3.5	4.0	8.80	0.90
United Kingdom	526	589	-0.91	1.10	3.8	3.9	4.32	0.10
Russia	2 583	3 181	3.97	1.87	1.9	2.1	0.43	1.09
Ukraine	364	401	-4.74	0.50	1.5	1.3	-0.87	-0.71
AFRICA	19 102	21 292	2.76	0.98	11.4	11.4	0.69	0.05
Egypt	270	294	-0.86	0.76	5.4	5.1	-1.15	-0.71
Ethiopia	2 032	2 138	-0.30	0.35	14.9	12.6	-2.36	-1.55
Nigeria	3 495	4 268	3.58	1.87	12.4	13.0	2.60	0.44
South Africa	92	94	3.81	0.00	2.0	1.8	-4.80	-1.02
ASIA	38 691	47 285	2.58	1.75	7.2	7.8	2.08	0.62
China ²	4 732	4 795	1.45	0.10	1.5	1.5	2.56	-0.28
India	21 234	26 999	2.94	2.15	15.4	16.4	1.94	0.43
Indonesia	193	555	-5.83	1.54	1.1	1.0	-2.16	-1.09
Iran	994	1 189	3.57	1.52	11.3	12.7	1.50	0.80
Japan	81	85	0.50	0.57	1.6	1.6	-1.08	0.45
Kazakhstan	67	85	-1.99	2.08	0.5	0.6	-5.42	0.99
Korea	22	31	6.64	2.00	1.4	1.4	0.18	0.01
Malaysia	0	0	..	..	3.4	3.8	1.25	0.99
Pakistan	1 242	1 422	6.48	1.44	7.0	6.9	2.04	-0.15
Philippines	75	94	2.22	2.62	1.3	1.2	-2.05	-0.89
Saudi Arabia	16	19	3.70	1.44	6.1	6.8	1.01	0.99
Thailand	240	334	1.73	3.66	3.8	4.1	4.85	0.46
Turkey	1 458	1 613	1.78	1.00	13.9	14.9	0.84	0.53
Viet Nam	327	365	0.89	0.98	3.1	3.1	0.14	0.02
OCEANIA	2 624	2 949	1.59	0.98	2.0	2.2	2.53	0.53
Australia	2 579	2 899	1.63	0.98	1.5	1.6	4.71	0.00
New Zealand	31	33	-1.35	0.52	4.0	4.5	-1.85	0.81
DEVELOPED COUNTRIES	21 171	25 921	3.59	1.78	3.5	3.8	4.09	0.68
DEVELOPING COUNTRIES	65 259	76 724	2.63	1.47	8.7	9.2	1.62	0.43
LEAST DEVELOPED COUNTRIES (LDC)	17 557	19 957	3.05	1.14	11.6	12.1	1.64	0.34
OECD³	20 865	24 707	3.95	1.55	5.2	5.4	3.57	-0.13
BRICS	31 764	38 581	2.42	1.77	8.4	9.1	1.90	0.65

.. Not available

Note: Calendar year. Average 2017-19est: Data for 2019 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 but includes all EU member countries.
4. Least-squares growth rate (see glossary).

Source: OECD/FAO (2020), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database). dx.doi.org/10.1787/agr-outl-data-en

Table C.47. Information on food price changes

	Total inflation % change (year-on-year)		Food inflation % change (year-on-year) ²		Expenditure share of food		Food contribution to total change in inflation ³	
	2019	2020	2019	2020	2019	2020	2019	2020
OECD								
Australia ¹	1.3	..	3.7	..	12.8	12.8	0.5	..
Austria	1.8	2.0	1.2	1.2	12.0	12.0	0.1	0.1
Belgium	2.0	1.4	1.4	1.1	17.4	17.4	0.2	0.2
Canada	1.4	2.4	2.5	3.8	11.5	11.5	0.3	0.4
Chile	2.2	3.5	1.3	5.1	18.9	18.9	0.2	1.0
Czech Republic	2.5	3.6	-0.2	6.3	17.0	17.0	0.0	1.1
Denmark	1.3	0.7	1.1	0.0	11.5	11.5	0.1	0.0
Estonia	2.7	1.6	1.7	2.8	21.7	21.7	0.4	0.6
Finland	1.1	1.0	2.1	1.8	13.4	13.4	0.3	0.2
France	1.2	1.5	2.9	1.9	14.7	14.7	0.4	0.3
Germany	1.4	1.7	0.7	2.4	10.4	10.4	0.1	0.3
Greece	0.4	0.9	1.9	-0.1	17.1	17.1	0.3	0.0
Hungary	2.7	4.7	3.8	6.9	19.6	19.6	0.8	1.3
Iceland	3.4	1.7	4.8	1.3	14.9	14.9	0.7	0.2
Ireland	0.7	1.3	-1.5	-1.1	11.7	11.7	-0.2	-0.1
Israel	1.2	0.3	4.7	-0.9	14.3	14.3	0.7	-0.1
Italy	0.9	0.5	0.7	0.6	16.3	16.3	0.1	0.1
Japan	0.2	0.7	-2.2	0.7	19.0	19.0	-0.4	0.1
Korea	0.8	1.5	2.6	1.8	14.4	14.4	0.4	0.3
Luxembourg	1.8	1.9	2.6	1.5	11.1	11.1	0.3	0.2
Mexico	4.4	3.2	5.3	3.4	18.9	18.9	1.0	0.6
Netherlands	2.2	1.8	3.0	1.8	11.3	11.3	0.3	0.2
New Zealand ¹	1.5	..	0.7	..	17.4	17.4	0.1	..
Norway	3.1	1.8	1.2	2.1	13.3	13.3	0.2	0.3
Poland	0.7	..	0.8	..	24.1	24.1	0.2	..
Portugal	0.5	0.8	0.2	0.8	18.1	18.1	0.0	0.1
Slovak Republic	2.2	3.0	1.6	4.4	18.4	18.4	0.3	0.8
Slovenia	1.1	2.1	0.8	3.4	17.0	17.0	0.1	0.6
Spain	1.0	1.1	0.9	2.0	18.2	18.2	0.2	0.4
Sweden	1.9	1.3	1.6	2.4	13.9	13.9	0.2	0.3
Switzerland	0.6	0.2	0.8	-1.0	10.8	10.8	0.1	-0.1
Turkey	20.4	12.2	31.0	9.0	26.8	26.8	8.3	2.4
United Kingdom	1.8	1.8	0.9	1.4	11.8	11.8	0.1	0.2
United States	1.6	2.5	0.7	0.7	7.8	7.8	0.1	0.1
OECD Total	2.1	2.3	2.0	1.6	..	..	..	..
Enhanced Engagement								
Brazil	3.8	4.2	4.2	5.8	22.5	22.5	0.9	1.3
China	1.7	5.4	2.0	20.6	33.6	33.6	0.7	6.9
India	6.6	7.5	-2.2	23.6	35.4	35.4	-0.8	8.4
Indonesia	2.8	2.7	2.0	4.3	19.6	19.6	0.4	0.8
Russia	5.0	2.4	6.2	2.1	32.8	32.8	2.0	0.7
South Africa	3.9	4.4	2.9	1.2	18.3	18.3	0.5	0.2

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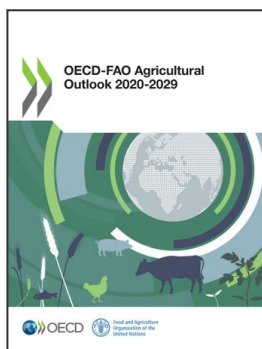
Table C.47. Information on food price changes (cont.)

	Total inflation % change (year-on-year)		Food inflation % change (year-on-year) ²		Expenditure share of food		Food contribution to total change in inflation ³	
	2019	2020	2019	2020	2019	2020	2019	2020
Non OECD								
Algeria	2.6	1.4	1.4	-1.0	43.8	43.8	0.6	-0.4
Bangladesh	5.4	5.6	5.3	5.1	28.6	28.6	1.5	1.5
Bolivia	1.4	1.2	1.5	1.6	27.6	27.6	0.4	0.4
Botswana	3.5	2.2	-0.2	3.2	23.7	23.7	0.0	0.8
Bulgaria	3.0	4.2	3.6	8.0	37.2	37.2	1.3	3.0
Colombia	3.2	3.6	2.1	5.1	34.7	34.7	0.7	1.8
Costa Rica	1.7	1.6	-0.7	-0.3	21.4	21.4	-0.1	-0.1
Dominican Republic	0.7	2.1	-0.4	7.6	29.2	29.2	-0.1	2.2
Ecuador	0.5	-0.3	0.4	-0.7	23.0	23.0	0.1	-0.2
Egypt	12.5	7.2	12.5	2.6	26.3	26.3	3.3	0.7
El Salvador	0.3	2.1	0.8	3.7	26.0	26.0	0.2	0.9
Ethiopia	11.5	18.7	11.5	..	57.0	57.0	6.6	..
Ghana	9.0	7.8	8.0	7.8	37.0	37.0	3.0	2.9
Guatemala	4.1	1.8	9.8	1.3	28.6	28.6	2.8	0.4
Haiti	15.5	..	18.9	..	50.4	50.4	9.5	..
Honduras	4.0	3.5	1.1	1.2	31.8	31.8	0.4	0.4
Iraq	1.1	1.0	2.0	-2.8	35.0	35.0	0.7	-1.0
Jordan	3.6	-0.4	3.6	-1.9	35.2	35.2	1.3	-0.7
Kenya	4.7	5.8	1.6	9.6	36.0	36.0	0.6	3.5
Madagascar	6.2	3.9	6.3	3.0	60.0	60.0	3.8	1.8
Malawi	8.8	11.8	10.7	17.6	50.0	50.0	5.4	8.8
Malaysia	-0.7	1.6	1.0	0.9	56.3	56.3	0.6	0.5
Moldavia	2.2	4.6	-3.0	8.3	60.0	60.0	-1.8	5.0
Morocco	-0.5	1.3	-3.1	1.4	40.4	40.4	-1.3	0.6
New Caledonia	1.0	-0.1	-0.6	0.9	21.0	21.0	-0.1	0.2
Nicaragua	3.3	..	1.3	..	26.1	26.1	0.3	..
Niger	..	0.3	-4.0	-0.2	40.0	40.0	-1.6	-0.1
Nigeria	11.3	12.1	13.5	14.9	51.8	51.8	7.0	7.7
Pakistan	7.2	15.4	4.3	17.8	37.5	37.5	1.6	6.7
Panama	-0.3	0.4	0.9	-0.5	33.6	33.6	0.3	-0.2
Paraguay	2.4	2.8	-1.0	2.4	39.1	39.1	-0.4	0.9
Peru	2.4	2.9	1.5	2.8	25.0	25.0	0.4	0.7
Philippines	4.4	2.9	5.6	2.2	39.0	39.0	2.2	0.9
Romania	3.3	4.8	3.8	3.6	37.4	37.4	1.4	1.3
Rwanda	1.0	7.3	-4.3	15.8	39.0	39.0	-1.7	6.2
Senegal	0.6	2.0	0.7	2.0	53.4	53.4	0.4	1.1
Singapore	0.4	0.3	1.4	1.6	21.7	21.7	0.3	0.3
Sri Lanka	3.7	5.7	-2.1	12.4	41.0	41.0	-0.9	5.1
Chinese Taipei	0.2	1.8	0.8	2.6	23.7	23.7	0.2	0.6
Tanzania	3.0	3.7	0.7	5.7	38.5	38.5	0.3	2.2
Thailand	0.3	1.0	1.3	1.9	33.0	33.0	0.4	0.6
Tunisia	7.1	5.9	7.1	4.4	28.7	28.7	2.0	1.3
Uganda	2.7	3.4	-1.5	3.1	27.2	27.2	-0.4	0.8
Zambia	7.8	..	7.7	15.4	52.5	52.5	4.0	8.1

.. Not available

1. No data available for January 2020 in Australia and New Zealand.
2. CPI food: definition based on national sources.
3. Contribution is food inflation multiplied by expenditure share, expressed in %.

Source: OECD and national sources.



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