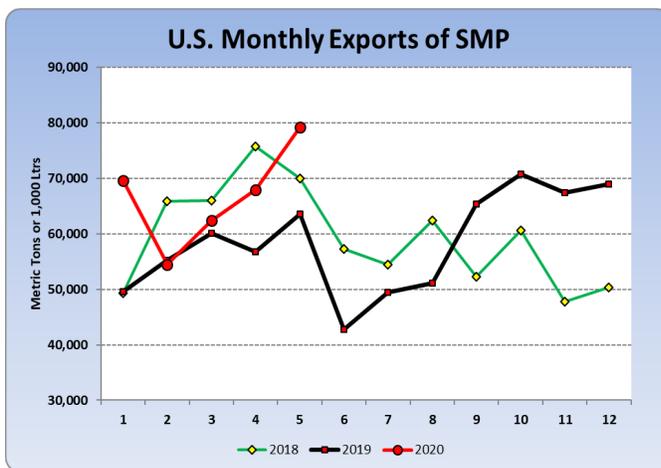


Dairy: World Markets and Trade

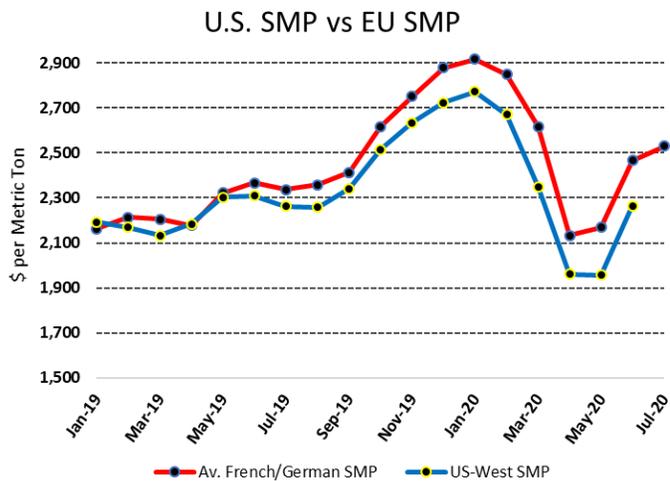
Dairy Production and Trade Developments

Since the previous circular published in December 2019, the spread of COVID-19 has resulted in a tumultuous period for the U.S. dairy industry as it has rapidly adapted supply chains and



pivoted from food service sector sales to grocery sales. During this adjustment phase, the outlook for U.S. dairy exports dimmed as there were concerns that global import demand would collapse and stocks particularly for skimmed milk powder (SMP) would mount in the United States and the European Union (EU). Although the industry continues to adapt, the outlook for U.S. dairy exports has brightened considerably. Exports through May reached \$2.7 billion, an increase of 12 percent over the same period in 2019.

U.S. shipments of SMP, dried whey and whey products, and lactose through May are up 17 percent, 16 percent, and 10 percent, respectively year-over-year (YOY). On a value basis, exports of SMP through May are up 38 percent year-over-year (YOY) and accounted for nearly a third of total dairy exports. Undoubtedly, this boost in exports was aided by the strong competitive position of the U.S. versus EU SMP prices with a differential that was at times over \$250 per metric ton (11 cents/lb).



U.S. SMP continues to hold a competitive edge and prospects for continued growth in SMP exports for the balance of the year are positive. Currently, total U.S. SMP exports are forecast to reach a record 777,000 tons; up 11 percent from 2019.

Milk Production Summary for Major Exporters (Million Tons)

	2019	Dec. 2020 Forecast	Revised 2020 Forecast	2020 Forecast Change
Argentina	10.6	10.8	11.1	3%
Australia	8.8	8.6	9.2	8%
EU-28	155.2	155.9	156.7	1%
New Zealand	21.9	21.9	21.9	0%
United States	99.1	100.9	100.5	0%
Major Exporter Total	295.6	298.1	299.4	0%

Note: Data is rounded.

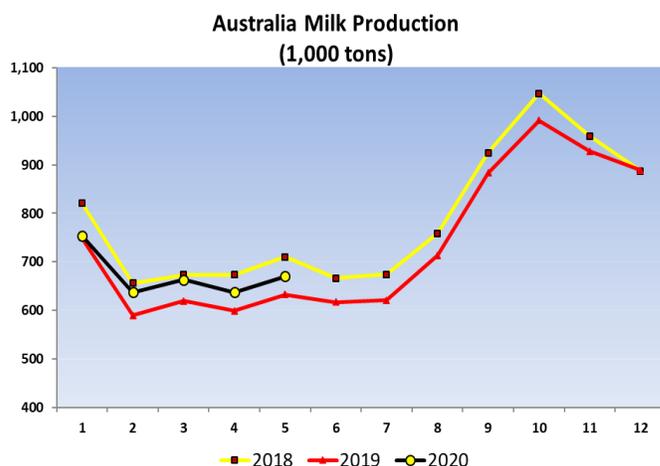
Fluid Milk:

- In **Argentina**, favorable weather conditions early in the year have led to a strong surge in milk output with cumulative production through May up 9 percent in comparison to the same period last year. As a result, the forecast is revised up by 3 percent to 11.1 million tons or about 4 percent higher than 2019.

The production environment, however, remains challenging as producers face a monthly inflation rate of between 2-3 percent and the devaluation of the currency. Nevertheless, milk prices have been holding steady at around 27-29 cents/liter (approximately \$1.06 per gallon). During the second half of the year, consumption is expected to weaken due to a slowdown in GDP growth and lower export demand.

Rainfall conditions are expected to be normal during the second half of the year although some dryness has been noted in the main grain producing regions. The National Oceanic and Atmospheric Administration noted in early July that there is a slightly higher probability (50-55 percent) of a La Niña event occurring in last quarter of this year. This would likely bring drier conditions affecting milk production.

- After two years of drought, milk production in **Australia** is set to rebound due to beneficial rains early this year that improved pasture conditions and reduced fodder and grain prices. In the latest report (July 8) published by the Australian Bureau of Meteorology, the outlook for the eastern two-thirds of Australia is for a wetter than average 3 months from August through October. Higher milk prices, which reached record levels in 2019, have also helped dairy farmers to rapidly boost milk production early this year. Due to drought conditions, herd sizes were expected to shrink significantly, however, data from the major producing state of Victoria indicated a culling rate of 8.9 percent which was relatively low given the drought conditions.



Currently, the herd is expected to shrink marginally but milk production for 2020 is revised up by 8 percent to 9.2 million tons. While this represents a growth rate of over 4 percent YOY, this is still below the average total production of about 9.5 million tons during the past ten years.

- Monthly milk production in **New Zealand** through May 2020 is marginally ahead of last year’s pace over the same period as drought conditions early in the year in the North Island reduced pasture growth and milk output. However, conditions have improved and the latest update from the New Zealand National Institute for Weather and Atmospheric Research (NIWA) does not indicate any current drought. For the July-September period, the NIWA forecast calls for an equal chance of near normal or above normal rainfall in the east of North Island and near normal rainfall for all other regions except in the west of South Island where there is a greater probability of below normal precipitation.

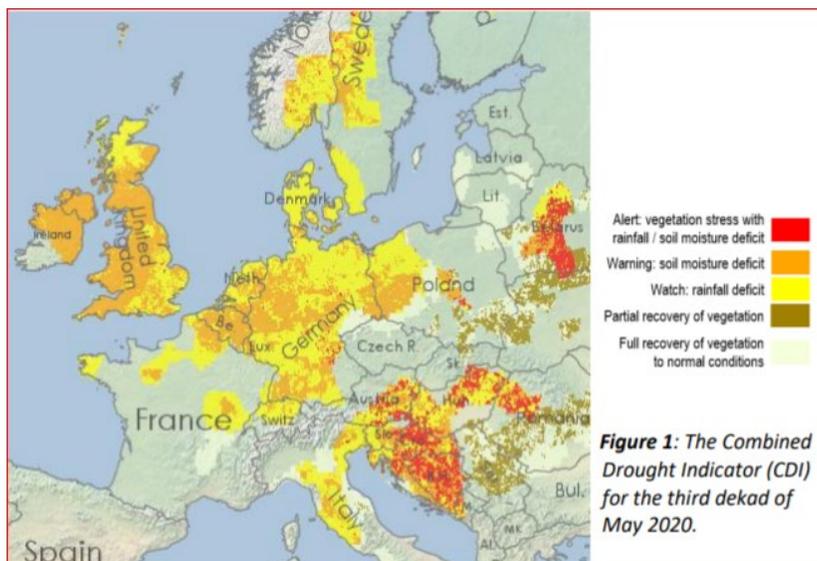
Despite the positive precipitation outlook, milk prices remain uncertain due to the global disruption of COVID-19. In the most recent (July 2020) price outlook released by Fonterra, the farmgate milk price for 2019/2020 (June/May) season is estimated at a mid-point price of NZ\$7.15 per kilogram of milk solids (US\$2.15 per pound). For the next season this price is anticipated to fall to a level between NZ\$5.40-\$6.90 per kilogram of milk solids. Since that estimate, however, global product prices have strengthened which will likely lead to an upward revision in the milk price forecast

Although there is some optimism regarding rainfall conditions and prices, lower cow numbers are expected and the condition of the herd going into the peak spring production period is likely to be less than ideal. In addition, pasture conditions are still recovering from the drought particularly as soil moisture has not been fully replenished. Consequently, the milk production forecast for 2020 is slightly lowered by about 50,000 tons but remains at about 21.9 million tons, fractionally above 2019

- Milk output in the **European Union** has been surprisingly strong with milk production through April 2020 running 2 percent ahead of last year. There are, however, signs that milk production likely slowed in May and June due to dry conditions. The European Drought Monitor reported in June that “Some regions of Europe are facing a robust dry spell, following poor rainfall during April and May 2020. Particularly affected are central and northwestern European countries (i.e., Germany, Belgium, the Netherlands, Ireland,

and most of the United Kingdom)”

Eurostat data indicates that milk deliveries in May 2020 for France, Italy, and the U.K. were down 2 percent, 8 percent, and 1 percent, respectively compared to May 2019. In 2019 these three regions accounted for about one third of the EU’s total milk deliveries. In Germany milk production in May was flat YOY, while in Ireland and the Czech Republic it was 3-4 percent higher.



Given these factors, for the balance of the year EU milk production is expected to slow during the summer but recover to some extent in the Fall. Consequently, the milk production forecast is revised up but only by 1 percent to 156.7 million tons which represents a 1 percent increase over 2019 output.

Source: EDO June 2019

CHEESE:

Cheese Exports Summary for Major Exporters (1,000 Tons)

	2019	Dec 2020 Forecast	Revised 2020 Forecast	2020 Forecast Change
Australia	160	170	170	0%
Belarus	244	260	260	0%
EU-28	880	900	925	3%
New Zealand	335	350	340	-3%
United States	357	365	353	-3%
Major Exporter Total	1,976	2,045	2,048	0%

Note: Data is rounded.

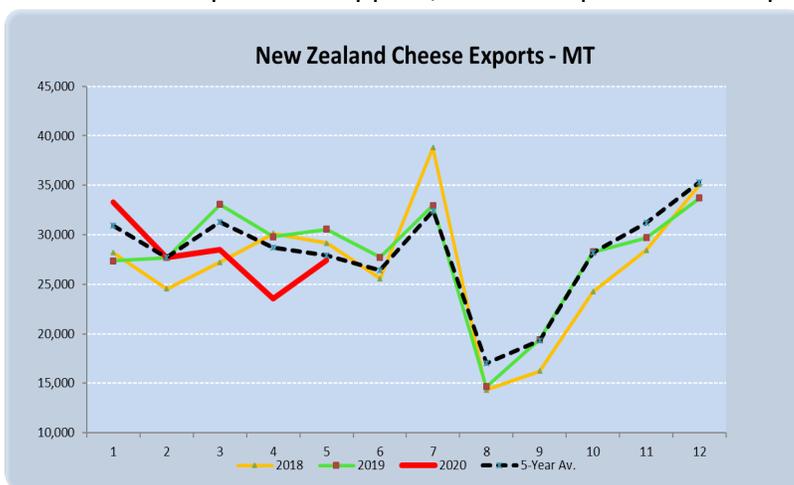
- The **European Union** cheese export forecast for 2020 is revised up by 3 percent to 925,000 tons which represents an expansion of 5 percent over 2019. Year-to-date shipments this year have been about 9 percent ahead in comparison to the same period

last year. However, shipments are expected to slow down during the second half of the year as the availability of industrial milk declines due to the seasonal decline in milk production.

Traditionally the United States has been the largest market for EU cheese accounting for about 16 percent of EU shipments in 2019. This year, shipments to the U.S. import market through May are down about 11 percent. This may have been due to COVID-19 affecting the food service sector and the retaliatory tariffs of 25 percent imposed on imports of EU cheeses by the United States starting in October 2019. These retaliatory tariffs were in response to a World Trade Organization ruling in favor of the United States over EU subsidies to Airbus. While EU cheese exports to the United States declined, shipments particularly to the Ukraine, South Korea, and Japan markets have increased significantly.

To support the dairy market during the COVID-19 pandemic, in late April the European Union authorized the subsidization of storage costs for up to 100,000 tons of cheese for between 60-180 days under the Private Storage Scheme. Cumulative volumes through end-of-June total 48,000 tons.

- As a result of a slight decrease in the milk production forecast for **New Zealand**, the 2020 cheese production forecast is trimmed by 1 percent to 360 million tons. With more limited exportable supplies, cheese shipments are expected to be lower and the



export forecast is revised down by 10,000 tons to 340,000 tons. Cheese shipments through May are already down 5 percent YOY primarily due to decreased exports to China, Australia, and Japan. In contrast, sales to South Korea are up by about 49 percent YOY.

- The **United States** production 2020 forecast is revised up by 1 percent to 6.15 million tons with most of the additional cheese being channeled to domestic consumption which is expected to grow by 4 percent YOY. Cheese exports through May are lagging last year's pace by 5 percent with a notable slowdown in shipments to such key markets as South Korea and Japan. Surprisingly, sales to Mexico have been faring well with exports to this market through May up 5 percent YOY. However, recent high prices for U.S. cheese relative to competitors have dimmed prospects and the export forecast is revised down by 3 percent to 353,000 tons.

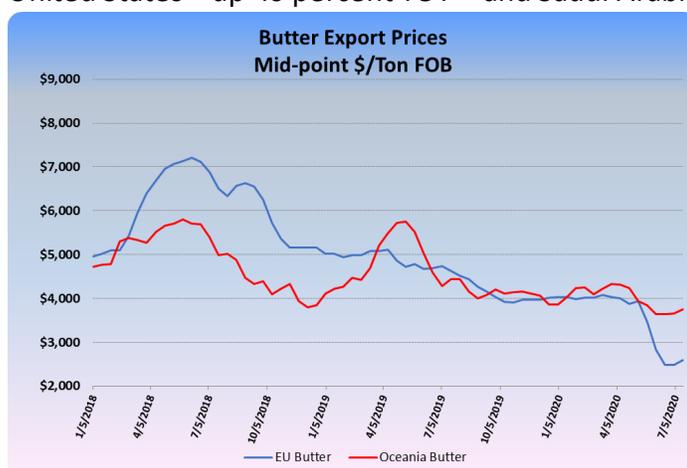
BUTTER (Includes Butteroil/AMF):

**Butter Exports Summary for Major Exporters
(1,000 Butter Equivalent Tons)**

	2019	Dec-2020 Forecast	Revised 2020 Forecast	2020 Forecast Change
Belarus	67	65	65	0%
EU-28	218	195	265	36%
New Zealand	509	500	510	2%
United States	26	25	24	-4%
Major Exporter Total	820	785	864	10%

Note: Data is rounded.

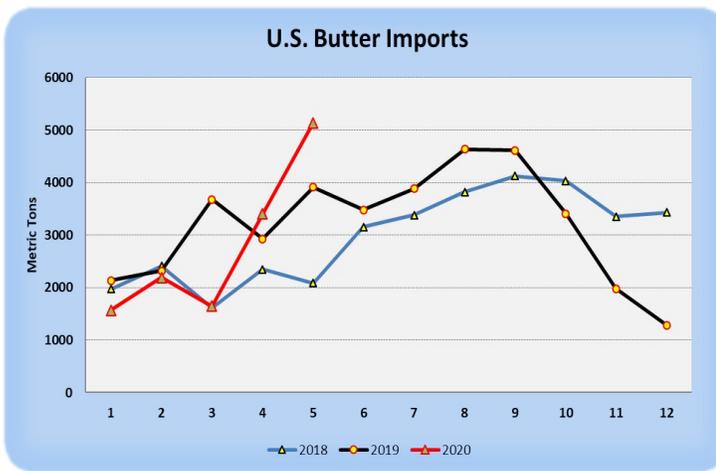
- **European Union** exports of butter have grown rapidly this year with shipments through April up nearly 70 percent YOY. There was a significant jump in exports of butter to the United States – up 40 percent YOY – and Saudi Arabia. In the past few years the United States has become a key market accounting for a 13 percent share of total EU butter exports in 2019. EU butter prices are currently competitive on world markets and exports are expected to continue at a strong pace. Consequently, the 2020 export forecast is revised up by 36 percent to 265,000 tons. This would represent the highest level of EU butter exports since 2005.



Source: AMS/USDA

- As the major global exporter of butter, **New Zealand** exports are anticipated to grow slightly over 2019 particularly as shipments to its top market, China, are expected to grow. This year, exports of butter to China through May have expanded by 24 percent. However, this has been somewhat offset by lower shipments to key markets such as Australia, Philippines and the United States. The 2020 export forecast is revised up by 10,000 tons to 510,000 tons
- Butter exports from the **United States** have been trailing last year's pace and exports are expected to reach 24,000 tons, about 2,000 tons lower than last year.

Despite lower U.S. butter prices relative to world markets, imports of butter through May have grown by 9 percent compared to the same period last year. The import forecast is revised up by 11 percent to 71,000 tons – the highest level of butter imports since 1966. Import data indicates that Ireland is the single major supplier responsible for about 83 percent of total butter imports through May.



Import data indicates that Ireland is the single major supplier responsible for about 83 percent of total butter imports through May. Although there is a tariff rate quota of 6,977 tons, the bulk of the butter is being imported over-quota which requires an import license and is subject to a tariff of about 70 cents/lb. (\$1.58 per kg)

SKIMMED MILK POWDER (SMP):

**SMP Exports Summary for Major Exporters
(1,000 Tons)**

	2019	Dec-2020 Forecast	Revised 2020 Forecast	2020 Forecast Change
Australia	128	120	130	8%
Belarus	123	158	128	-19%
EU-28	962	925	880	-2%
New Zealand	373	390	425	9%
United States	701	718	777	8%
Major Exporter Total	2,287	2,311	2,340	1%

Note: Data is rounded.

- **EU** exports of SMP have been surprisingly slow with cumulative shipments through May down 18 percent over the comparable period in 2019. While there have been strong gains in shipments to Algeria they were offset by lower sales to key markets such as China (-21 percent), Indonesia (-57 percent), and Philippines (-70 percent).

Despite the substantial lag in the pace of shipments through May, the EU export forecast is only revised down 5 percent to 880,000 tons as EU SMP prices are expected

to become more competitive in the second half of this year. As a result, YOY shipments will drop by about 9 percent.

It is also worth noting that the EU has been exporting substantial volumes of fat-filled milk powder which includes dried skimmed milk combined with a vegetable fat such as palm oil. This provides a cheaper alternative for whole milk powder (WMP). Exports of fat-filled milk powder through May totaled about 146,000 tons; if the current rate of sales is maintained this could total 356,000 tons for the year. So far this year, the major markets have been Senegal, Nigeria, and the United Arab Emirates.

- In the **United States**, despite a sharp drop in February, exports of SMP have rebounded growing by an average of about 13 percent per month from March through to May. Given that U.S. SMP is expected to remain competitive on global markets, the forecast is revised up by 8 percent to 777,000 tons. This represents a YOY increase of about 11 percent.

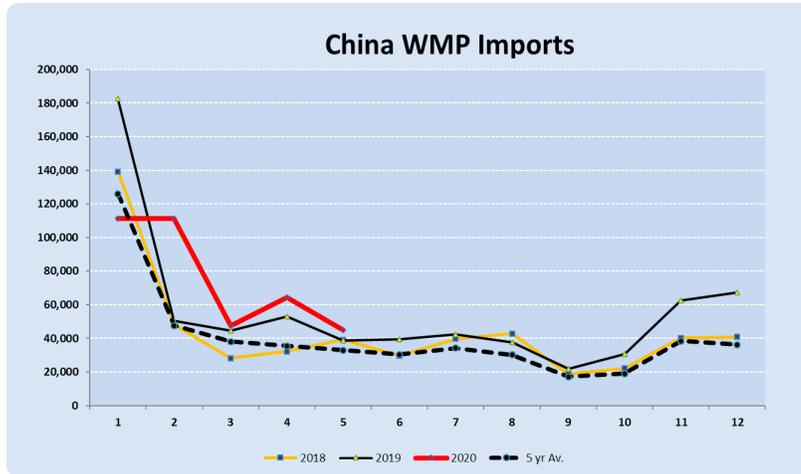
Mexico remains the top market accounting for about a third of total U.S. SMP shipped through May. However, the pace of exports to Mexico through May is down 21 percent YOY due to the rapid devaluation of the Mexican peso and slower economic growth. Nevertheless, there are signs of some market recovery in Mexico as U.S. shipments of SMP from April to May jumped by 26 percent. U.S. exports to other destinations have fared well, with strong gains registered in Indonesia, Philippines, Malaysia, and Egypt.

WHOLE MILK POWDER (WMP):

WMP Exports Summary for Major Exporters (1,000 Tons)

	2019	Dec-2020 Forecast	Revised 2020 Forecast	2020 Forecast Change
Argentina	97	115	110	-4%
Australia	42	40	40	0%
EU-28	298	300	320	7%
New Zealand	1,536	1,540	1,480	-4%
Major Exporter Total	1,973	1,995	1,950	-2%

- Despite the slowdown in economic growth and port disruptions caused by COVID-19, purchases of WMP by **China** have been surprisingly robust with imports through May up 3 percent YOY. However, China typically imports some 60-70 percent of it's annual WPM needs in the first half of the year, so the rate of monthly imports is expected to



slow down in the second half of this year. Consequently, the import forecast is adjusted down by 2 percent to 680,000 tons. Despite this downward revision, this still represent a growth rate of 1 percent over 2019 imports and would be a record import volume.

- The **New Zealand** export forecast for WMP is revised down by 60,000 tons to 1.48 million tons due to lower-than-anticipated shipments between January and May. It is likely that dry pasture conditions early in the year lowered milk supplies available for the production and export of WMP. China remains the key destination accounting for about 40 percent of WMP exports in 2019 and about one third of WMP shipped so far this year.

U.S. Dairy Export Forecasts:

U.S. Dairy Products Export Forecast - Calendar Year 2020-2021

	2020 (For)	Milk Equivalent (Bil. Lbs.)		2021 (For)	Milk Equivalent (Bil. Lbs)	
		Fat	Skims		Fat	Skims
NON-FAT DRY AND SKIM MILK PWDR	777,360 MT	0.3	18.3	750,000 MT	0.3	17.6
MILK POWDER > 1.5% MILK FAT	40,474 MT	0.6	0.7	40,500 MT	0.6	0.7
BUTTER/MILKFAT/SPREADS	22,838 MT	1.1	0.0	21,650 MT	1.0	0.0
CHEESE AND CURD	352,914 MT	5.4	2.8	364,350 MT	5.5	3.0
FLUID PRODUCTS 4/	162,963 Liters	0.4	0.3	167,250 Liters	0.5	0.3
DRIED WHEY PRODUCTS	491,947 MT	0.6	11.4	506,000 MT	0.6	11.7
LACTOSE	401,448 MT	0.0	9.8	413,000 MT	0.0	10.1
OTHER DAIRY PRODUCTS	203,671 MT	0.6	2.5	192,300 MT	0.6	2.1
TOTAL - Billion Pounds		9.1	45.8		9.3	45.5

Note: 1) CY 2020 includes actual exports through May 2020
 2) Milk Equivalent figures are rounded and totals may not add up.
 3) Forecasts assume current policy
 4/ Includes milk based drinks, fluid whey, cream and fluid milk

Exports Through May 2020

Top Dest. -M.E. Milkfat Basis (Mill. lbs)	2020	Top Dest.-M.E. Skim Basis (Mill. lbs)	2020
MEXICO	922 24%	MEXICO	3,850 20%
SOUTH KOREA	489 13%	CHINA (MAINLAND)	2,454 13%
CANADA	297 8%	INDONESIA	1,738 9%
JAPAN	271 7%	PHILIPPINES	1,732 9%
AUSTRALIA	215 6%	VIETNAM	1,074 6%
CHINA (MAINLAND)	170 4%	JAPAN	1,065 5%
Other	1,486 39%	Other	7,583 39%
TOTAL	3,849	TOTAL	19,495

Additional Resources:

For additional information, please contact Paul Kiendl at 202-720-8870 or Paul.Kiendl@usda.gov

Subscription services for FAS circulars can be obtained at:
<https://public.govdelivery.com/accounts/USDAFAS/subscriber/new>

Individual FAS country reports covering dairy are available at: <https://gain.fas.usda.gov/#/>

The USDA Production, Supply and Demand database is available at:
<https://apps.fas.usda.gov/psdonline/app/index.html#/app/home>

A monthly “Livestock, Dairy, and Poultry Outlook” for the United States published by the Economic Research Service is available at: <https://www.ers.usda.gov/publications/>

U.S. trade data is available on the Global Agricultural Trade System (GATS):
<https://apps.fas.usda.gov/gats/default.aspx>

The next publication of this circular will be on December 18, 2020.

Circular Notes:

- Fluid milk in liters are converted to kilograms using a 1.03 conversion factor.
- U.S. cheese imports only include cow’s milk cheeses.
- For the United States, SMP includes nonfat dry milk (NDM) and skimmed milk powder.
- The Butter PS&D’s include butter, anhydrous milk fat (AMF), and butteroil. The AMF and butteroil are converted to a butter equivalent basis by multiplying by 1.25.
- Production data for fluid milk, cheese, and butter for China is based on data published by the National Bureau of Statistics and Organization for Economic Development.

Cows Milk Production and Consumption: Summary For Selected Countries

1,000 Metric Tons

	2016	2017	2018	2019	2020 Dec	2020 Jul
Cows Milk Production						
Argentina	10,191	10,090	10,837	10,640	10,800	11,100
Australia	9,486	9,462	9,451	8,832	8,550	9,200
Belarus	7,140	7,321	7,345	7,394	7,420	7,700
Brazil	22,726	23,624	23,745	24,450	25,250	24,950
Canada	9,081	9,675	9,944	9,995	10,095	10,000
China	30,640	30,386	30,750	32,000	31,800	33,000
European Union	151,000	153,400	154,575	155,200	155,900	156,700
India	78,099	83,634	89,800	92,000	95,200	94,000
Japan	7,394	7,281	7,289	7,305	7,360	7,360
Korea, South	2,070	2,081	2,041	2,035	2,030	2,030
Mexico	11,956	12,121	12,368	12,650	12,867	12,750
New Zealand	21,224	21,530	22,017	21,852	21,950	21,900
Russia	30,510	30,934	30,398	30,560	31,000	31,000
Taiwan	380	380	385	419	423	423
Ukraine	10,375	10,275	10,070	9,900	9,690	9,690
Others	14	15	16	17	18	18
Subtotal	402,286	412,209	421,031	425,249	430,353	431,821
United States	96,367	97,762	98,688	99,057	100,880	100,485
Total	498,653	509,971	519,719	524,306	531,233	532,306
Fluid Use Dom. Consum.						
Argentina	1,718	1,681	1,771	1,645	1,780	1,600
Australia	2,550	2,530	2,620	2,550	2,600	2,500
Belarus	1,050	1,065	1,050	1,055	1,055	1,075
Brazil	9,600	9,993	10,762	11,040	11,250	11,250
Canada	2,917	2,884	2,832	2,800	2,780	2,780
China	12,555	12,810	12,700	13,200	13,350	12,800
European Union	33,600	33,550	33,500	33,300	33,260	33,260
India	67,700	72,185	77,000	79,000	80,800	81,000
Japan	3,988	3,974	3,995	3,969	3,999	3,999
Korea, South	1,500	1,561	1,566	1,575	1,580	1,580
Mexico	4,183	4,174	4,183	4,190	4,200	4,145
New Zealand	497	497	515	520	500	525
Russia	8,960	8,555	7,318	7,215	7,200	7,200
Taiwan	397	408	420	449	457	457
Ukraine	5,241	4,998	4,862	4,800	4,866	4,866
Others	81	86	96	117	123	123
Subtotal	156,537	160,951	165,190	167,425	169,800	169,160
United States	22,549	22,067	21,623	21,250	21,400	21,200
Total	179,086	183,018	186,813	188,675	191,200	190,360

Fluid Milk - Cow Numbers: Summary For Selected Countries
1,000 Head

	2016	2017	2018	2019	2020 Dec	2020 Jul
Cows In Milk						
Argentina	1,720	1,672	1,640	1,598	1,620	1,610
Australia	1,562	1,512	1,525	1,440	1,450	1,435
Belarus	1,512	1,502	1,500	1,498	1,495	1,505
Brazil	17,430	16,262	16,300	16,500	16,800	16,800
Canada	945	945	970	969	968	968
China	8,000	7,000	6,200	6,100	6,150	6,150
European Union	23,548	23,525	23,311	22,908	22,820	22,628
India	53,500	54,000	52,482	54,600	62,400	56,450
Japan	752	735	731	730	735	735
Korea, South	194	198	205	204	203	203
Mexico	6,450	6,550	6,550	6,500	6,550	6,500
New Zealand	4,998	4,861	4,993	4,946	4,935	4,928
Philippines	11	12	11	11	11	11
Russia	7,235	7,080	6,815	6,655	6,580	6,580
Taiwan	61	61	62	62	63	63
Ukraine	2,226	2,170	2,078	2,000	1,900	1,900
Subtotal	130,144	128,085	125,373	126,721	134,680	128,466
United States	9,334	9,406	9,398	9,336	9,335	9,370
Total	139,478	137,491	134,771	136,057	144,015	137,836

Cheese Production and Consumption: Summary For Selected Countries

1,000 Metric Tons

	2016	2017	2018	2019	2020 Dec	2020 Jul
Production						
Algeria	0	0	0	0	0	0
Argentina	552	514	444	429	455	440
Australia	344	348	366	370	375	390
Belarus	275	260	275	300	325	335
Brazil	745	771	760	780	795	795
Canada	445	497	510	519	525	525
China	251	249	241	244	287	250
European Union	9,810	10,050	10,160	10,210	10,350	10,450
Japan	47	46	45	45	46	46
Korea, South	25	35	37	40	43	43
Mexico	375	396	419	437	454	438
New Zealand	360	386	370	365	365	360
Philippines	2	2	2	2	2	2
Russia	865	951	970	970	970	1,000
Ukraine	186	190	192	195	197	197
Others	0	0	0	0	0	0
Total Foreign	14,282	14,695	14,791	14,906	15,189	15,271
United States	5,525	5,733	5,914	5,959	6,100	6,150
Total	19,807	20,428	20,705	20,865	21,289	21,421
Total Dom. Consumption						
Argentina	508	485	380	367	392	360
Australia	275	291	293	297	310	308
Belarus	71	72	72	73	73	75
Brazil	785	799	785	804	820	813
Canada	458	504	537	543	550	553
China	348	357	349	359	417	370
European Union	9,094	9,297	9,387	9,393	9,513	9,578
Japan	304	324	329	347	370	330
Korea, South	136	159	155	166	178	180
Mexico	496	511	526	556	569	549
New Zealand	42	40	38	38	40	38
Philippines	32	40	40	42	40	41
Russia	1,069	1,141	1,200	1,215	1,240	1,255
Taiwan	32	32	32	31	31	37
Ukraine	187	188	198	210	216	222
Others	0	0	0	0	0	0
Total Foreign	13,837	14,240	14,321	14,441	14,759	14,709
United States	5,379	5,494	5,674	5,751	5,855	5,961
Total	19,216	19,734	19,995	20,192	20,614	20,670

Cheese Trade: Summary For Selected Countries

1,000 Metric Tons

	2016	2017	2018	2019	2020 Dec	2020 Jul
Total Exports						
Argentina	53	44	61	61	65	60
Australia	167	171	172	160	170	170
Belarus	205	189	211	244	260	260
European Union	799	828	832	880	900	925
New Zealand	355	343	322	335	350	340
Others	55	59	63	55	60	51
Total Foreign	1,634	1,634	1,661	1,735	1,805	1,806
United States	287	340	349	357	365	353
Total	1,921	1,974	2,010	2,092	2,170	2,159
Total Imports						
China	97	108	108	115	130	120
Japan	258	273	286	303	325	285
Korea, South	110	125	124	131	135	145
Mexico	126	122	123	126	127	120
Russia	223	226	250	273	290	275
Others	328	337	324	340	356	345
Total Foreign	1,142	1,191	1,215	1,288	1,363	1,290
United States	165	138	138	139	124	124
Total	1,307	1,329	1,353	1,427	1,487	1,414

Butter Production and Consumption: Summary For Selected Countries

1,000 Metric Tons

	2016	2017	2018	2019	2020 Dec	2020 Jul
Production						
Algeria	0	0	0	0	0	0
Argentina	37	30	33	30	32	39
Australia	110	103	93	70	60	75
Belarus	118	120	115	110	105	105
Brazil	82	83	85	86	87	88
Canada	93	109	116	112	115	115
China	98	99	96	97	104	100
European Union	2,345	2,340	2,345	2,375	2,410	2,410
India	5,200	5,400	5,600	5,850	6,100	6,100
Japan	66	60	60	61	62	62
Mexico	217	223	228	231	233	232
New Zealand	570	525	550	525	525	530
Russia	246	270	256	254	255	260
Taiwan	0	0	0	0	0	0
Ukraine	103	109	106	103	90	90
Total Foreign	9,285	9,471	9,683	9,904	10,178	10,206
United States	834	838	893	904	885	925
Total	10,119	10,309	10,576	10,808	11,063	11,131
Domestic Consumption						
Algeria	0	0	0	0	0	0
Argentina	32	28	21	16	19	18
Australia	102	115	117	104	110	105
Belarus	41	47	37	43	40	40
Brazil	89	88	91	91	93	89
Canada	117	121	124	131	138	137
China	184	195	214	185	192	219
European Union	2,182	2,207	2,206	2,173	2,240	2,148
India	5,196	5,387	5,577	5,803	6,055	6,080
Japan	72	72	78	84	81	82
Mexico	267	264	250	277	257	259
New Zealand	28	28	29	29	30	29
Russia	353	357	344	369	367	388
Taiwan	24	24	23	24	23	25
Ukraine	93	82	76	82	77	83
Total Foreign	8,780	9,015	9,187	9,411	9,722	9,702
United States	849	849	898	939	925	968
Total	9,629	9,864	10,085	10,350	10,647	10,670

Note: Butter includes butter, butteroil and anhydrous milk fat on a butter equivalent basis.

Butter Trade: Summary For Selected Countries

1,000 Metric Tons

	2016	2017	2018	2019	2020 Dec	2020 Jul
Total Imports						
Russia	106	99	86	117	110	135
China	87	98	120	91	90	121
Australia	30	35	42	40	45	45
Mexico	65	49	33	59	36	40
Canada	27	22	22	25	26	25
Taiwan	24	24	23	24	23	25
Japan	13	8	16	25	22	23
Ukraine	1	1	1	4	1	5
European Union	23	16	22	16	25	3
Brazil	7	5	6	5	6	1
New Zealand	2	1	1	1	1	1
Algeria	0	0	0	0	0	0
Argentina	0	1	0	0	0	0
Belarus	0	0	0	0	0	0
India	6	2	1	0	0	0
Total Foreign	391	361	373	407	385	424
United States	47	41	59	66	64	71
Total	438	402	432	473	449	495
Total Exports						
New Zealand	554	476	501	509	500	510
European Union	212	174	161	218	195	265
Belarus	77	73	78	67	65	65
India	9	15	33	47	45	20
Argentina	6	4	11	15	12	18
Ukraine	9	28	29	20	14	14
Mexico	15	8	11	13	12	13
Australia	30	16	17	18	20	10
Canada	1	1	2	2	2	2
China	1	2	2	3	2	2
Russia	4	3	3	2	2	2
Algeria	0	0	0	0	0	0
Brazil	0	0	0	0	0	0
Japan	0	0	0	0	0	0
Taiwan	0	0	0	0	0	0
Total Foreign	918	800	848	914	869	921
United States	27	29	49	26	25	24
Total	945	829	897	940	894	945

Nonfat Dry Milk Production and Consumption: Summary For Selected Countries

1,000 Metric Tons

	2016	2017	2018	2019	2020 Dec	2020 Jul
Production						
Australia	238	187	201	150	140	155
Brazil	153	158	155	158	161	165
European Union	1,735	1,725	1,735	1,760	1,775	1,790
India	540	570	600	630	670	660
New Zealand	405	402	410	375	370	385
Others	620	613	592	596	630	610
Total Foreign	3,691	3,655	3,693	3,669	3,746	3,765
United States	1,049	1,073	1,060	1,099	1,090	1,160
Total	4,740	4,728	4,753	4,768	4,836	4,925
Total Dom. Consumption						
China	223	276	299	358	365	339
European Union	804	985	1,127	979	855	913
India	531	576	572	603	640	650
Indonesia	172	146	161	187	184	209
Mexico	325	351	347	405	425	395
Others	1,115	1,096	1,088	1,072	1,120	1,025
Total Foreign	3,170	3,430	3,594	3,604	3,589	3,531
United States	447	425	369	412	495	376
Total	3,617	3,855	3,963	4,016	4,084	3,907

Nonfat Dry Milk Trade: Summary For Selected Countries

1,000 Metric Tons

	2016	2017	2018	2019	2020 Dec	2020 Jul
Total Imports						
Mexico	286	331	360	361	380	350
China	184	247	280	344	350	320
Indonesia	173	147	162	188	185	210
Algeria	119	162	167	120	135	150
Philippines	185	154	159	177	190	135
Russia	136	126	95	88	95	60
Japan	34	59	52	47	45	46
Taiwan	23	24	23	23	23	22
Korea, South	21	23	25	24	23	20
Australia	6	8	13	15	15	15
Brazil	35	31	29	25	29	15
Chile	12	15	13	13	16	12
New Zealand	3	2	3	4	3	5
Canada	4	4	4	4	5	4
European Union	4	2	3	6	5	3
India	0	1	0	1	0	1
Ukraine	0	0	1	0	1	1
Argentina	0	0	0	0	0	0
Belarus	1	0	0	0	0	0
Total Foreign	1,226	1,336	1,389	1,440	1,500	1,369
United States	1	1	1	1	0	1
Total	1,227	1,337	1,390	1,441	1,500	1,370
Total Exports						
European Union	579	780	816	962	925	880
New Zealand	444	401	358	373	390	425
Australia	163	157	155	128	120	130
Belarus	111	109	121	123	158	128
Canada	24	72	66	47	40	60
Argentina	26	20	23	22	23	22
Ukraine	34	29	23	20	23	16
India	19	10	43	8	15	5
Russia	1	2	1	1	1	2
China	1	1	1	1	0	1
Chile	2	1	1	1	1	1
Indonesia	1	1	1	1	1	1
Algeria	0	0	0	0	0	0
Brazil	0	0	0	0	0	0
Japan	0	0	0	0	0	0
Korea, South	0	0	0	0	0	0
Mexico	3	29	56	0	0	0
Philippines	0	0	0	0	0	0
Taiwan	0	0	0	0	0	0
Total Foreign	1,408	1,612	1,665	1,687	1,697	1,671
United States	594	606	712	701	718	777
Total	2,002	2,218	2,377	2,388	2,415	2,448

Whole Milk Powder Production And Consumption: Summary For Selected Countries

1,000 Metric Tons

	2016	2017	2018	2019	2020 Dec	2020 Jul
Production						
Argentina	180	170	192	188	200	205
Brazil	550	596	585	598	615	615
China	1,375	1,350	1,300	1,334	1,465	1,400
European Union	720	760	732	740	725	795
New Zealand	1,320	1,380	1,450	1,500	1,525	1,515
Others	445	497	466	445	433	432
Total Foreign	4,590	4,753	4,725	4,805	4,963	4,962
United States	45	56	65	64	76	75
Total	4,635	4,809	4,790	4,869	5,039	5,037
Total Dom. Consumption						
Algeria	222	235	245	243	250	260
Brazil	662	664	652	659	677	664
China	1,992	1,868	1,869	2,004	2,184	2,104
European Union	344	369	400	447	426	476
Indonesia	120	128	142	135	146	130
Others	591	521	506	530	500	509
Total Foreign	3,931	3,785	3,814	4,018	4,183	4,143
United States	40	51	51	46	66	55
Total	3,971	3,836	3,865	4,064	4,249	4,198

Whole Milk Powder Trade: Summary For Selected Countries

1,000 Metric Tons

	2016	2017	2018	2019	2020 Dec	2020 Jul
Total Imports						
Afghanistan	0	0	0	0	0	0
Algeria	224	262	271	233	225	225
Argentina	0	0	1	2	0	0
Australia	16	28	28	37	35	35
Belarus	0	0	0	0	0	0
Brazil	126	73	68	62	63	50
Chile	7	12	8	3	3	5
China	420	470	521	671	695	680
European Union	6	2	2	5	1	1
Indonesia	52	47	59	54	62	47
Mexico	12	4	7	3	10	7
New Zealand	4	2	2	4	3	4
Philippines	21	19	23	32	27	27
Russia	49	49	27	46	40	40
Taiwan	30	32	34	32	33	34
Others	58	20	10	10	0	0
Total Foreign	1,025	1,020	1,061	1,194	1,197	1,155
United States	15	21	7	9	6	9
Total	1,040	1,041	1,068	1,203	1,203	1,164
Total Exports						
Afghanistan	0	0	0	0	0	0
Algeria	0	0	0	0	0	0
Argentina	110	71	135	97	115	110
Australia	70	55	55	42	40	40
Belarus	29	29	33	23	25	20
Brazil	14	5	1	1	1	1
Chile	7	4	4	4	4	3
China	3	2	2	1	1	1
European Union	382	393	334	298	300	320
Indonesia	2	0	0	1	0	1
Mexico	20	33	23	17	20	17
New Zealand	1,344	1,342	1,369	1,536	1,540	1,480
Philippines	0	0	0	0	0	0
Russia	1	1	0	0	0	0
Ukraine	2	4	4	9	10	5
Others	0	0	0	0	0	0
Total Foreign	1,984	1,939	1,960	2,029	2,056	1,998
United States	19	18	28	29	15	30
Total	2,003	1,957	1,988	2,058	2,071	2,028