United States Department of Agriculture

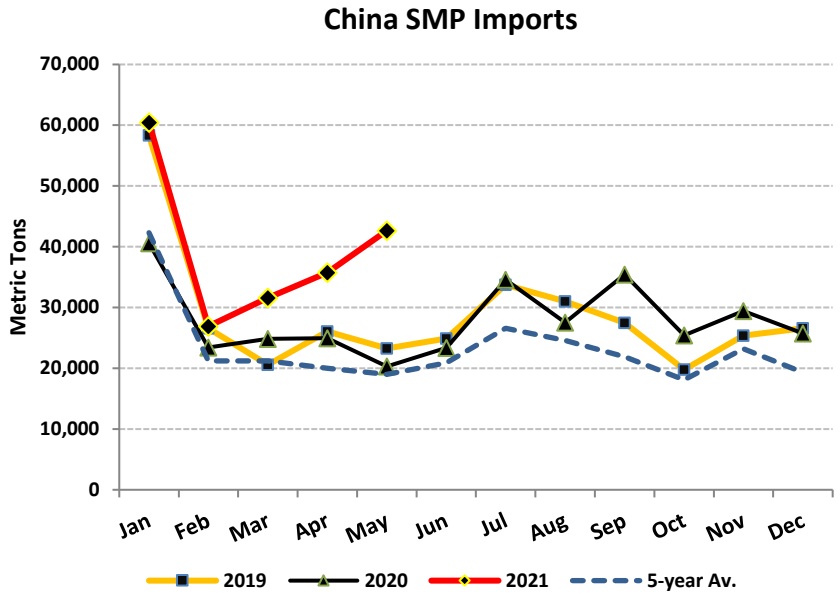
Foreign Agricultural Service

July 2021

Dairy: World Markets and Trade

Dairy Production and Trade Developments

Global dairy prices are relatively strong due in large part to the unprecedented import demand for dairy products by China. This year, in the period from January through May, China's imports of dairy products have grown by nearly 17 percent to reach $6.4 billion. There has been a surge in China's import demand for a broad range of dairy products, notably fluid milk, milk powders, and whey and whey products. Perhaps most surprising has been the recent surge in imports of skimmed milk powder (SMP) which have departed from the traditional pattern of purchases. In the past, inflows of SMP were more pronounced in the first quarter due to the free trade agreements (FTAs) with New Zealand and Australia. Thereafter, they stabilized at around 20,000-30,000 tons per month for the balance of the year. This year, SMP imports are on a new trajectory having steadily climbed since February and are now up 50 percent through May in comparison to last year. China's imports of SMP are now forecast to reach a record 480,000 tons.



Although U.S. dairy exporters have only captured a small portion of the China dairy import market that is dominated by the EU-28 and Oceania, it remains a critical market. It is currently ranked as the second-largest market on a volume basis for U.S. dairy exports after Mexico. This year, the volume of U.S. dairy exports to China through May is already up nearly 75 percent year-over-year. Shipments of U.S. SMP through this period are up nearly fivefold. But U.S. dairy exporters are also indirectly benefitting from China's import demand as a result of the higher global dairy prices. They have also been able to take the opportunity to ship greater quantities of dairy products to relatively new markets such as Vietnam.

Milk Production Summary for Major Exporters
(Million Tons)

	2020	Dec. 2021 Forecast	Revised 2021 Forecast	Forecast 2021 Change
Argentina	11.4	11.6	11.7	**1%**
Australia	9.1	9.4	9.2	**-2%**
EU-28	157.5	158.1	158.5	**0%**
New Zealand	22.0	22.2	22.4	**1%**
United States	101.2	102.6	103.5	**1%**
Major Exporter Total	301.2	303.9	305.3	**0%**

Note: Data is rounded.

Fluid Milk:

- The 2021 milk production forecast for **Argentina** is revised up 1 percent from the December forecast to 11.7 million tons. Milk output is off to a strong start during the first half of the year, with cumulative production January through May up 4 percent. However, production is expected to moderate as dairy farmers face an uncertain economic climate. The government has already imposed a number of price controls on dairy products, some of these controls for such products as butter, infant formula, grated cheese, etc., expired in June. The government's objective is to control food price inflation by focusing on ensuring there is an adequate supply of products to the domestic market. The government has also threatened to introduce export controls. In March 2020, Argentina implemented an export tax of 5 percent on fluid milk and 9 percent on powdered milk.

  Consequently, farmers face relatively fixed prices for their products which coupled with rising input costs, particularly for feed, are expected to tighten margins. This especially have an adverse effect on the smaller dairy farmers. There is also the prospect of less pastureland as farmers plant land to crops such wheat, corn, and soybeans. As a result, milk production is expected to slow modestly in late 2021 but will nevertheless be up by 3 percent over 2020.

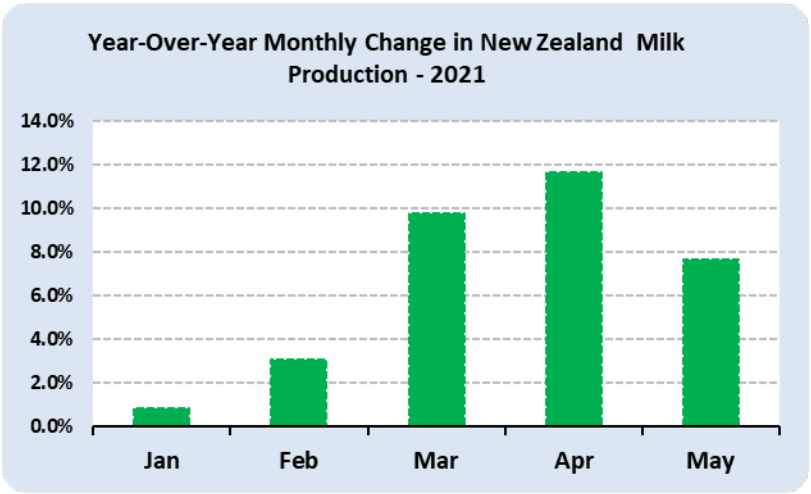
- The **Australia** milk production forecast is revised down 2 percent to 9.2 million tons due to the unanticipated exit of dairy farmers switching to beef cattle production. Initially, the number of cows was expected to grow by 1 percent, but with the revised forecast the dairy herd is now expected to decline by 1 percent from 2020.

  Currently, milk output for this year through May is up nearly 1 percent over the comparable period in 2020 due to good pasture conditions, ample fodder and grain supplies, and strong milk prices. Most of the key dairy regions have received average to above-average rainfall so far this year and farm gate milk prices for the 2020/21 season

are currently expected to surpass the average milk price of the past 5 years. While these strong prices would normally be expected to boost output, expansion has been constrained by the aforementioned shift to beef production, high dairy farm prices, and labor shortages.

- The **New Zealand** milk production forecast for this year is revised up to 22.4 million tons – an increase of 1 percent over the record setting level in 2020. Despite a forecast decline in the milk herd, this is expected to be offset by a 3-percent rise in yield per cow. Milk output for the year through May is up 6 percent year-over-year, but the key production season is during the August to December period when approximately 60 percent of the annual milk supply is produced. Cows are currently in good condition and have benefitted from plentiful supplies of feed. Further, the price outlook is bright as Fonterra announced an initial milk pay-out mid-point price of a record NZ $8 (US $5.60) per kg of milk solids for the 2021-22 season. This represents 6 percent increase over the 2020/21 pay-out.

  For the July-September 2021 period, the National Institute of Water and Atmospheric Research (NIWA) in New Zealand is forecasting normal to above-normal rainfall. However, NIWA warns that New Zealand's weather patterns are expected to vary substantially week-to-week over the coming months since currently neither the El Niño nor La Niña weather patterns are currently prevailing.



- Milk output in the **European Union-28** was slow to start the year but improved into the spring months. Through May, output is running marginally below 2020 (-0.3 percent). Cold weather initially dampened milk deliveries in January and February, which were 1 and 4 percent below a year ago, respectively. Thereafter, conditions began to improve with mid-spring rainfall supporting pasture growth in critical milk production months. In May, the month with the largest milk production, deliveries were nearly 2 percent stronger than in 2020.

Recent year-over-year growth in milk output is expected to continue as strong Chinese demand supports dairy product prices, offering some cushion against higher feed prices. European Union milk production is expected at 158.5 million tons, about 1 percent higher than 2020. Better herd management, including high-quality genetics, is expected to cause continued growth in output per cow, offsetting a smaller herd size.

CHEESE:

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

	2020	Dec. 2021 Forecast	Revised 2021 Forecast	2021 Forecast Change
Australia	153	170	170	**0%**
Belarus	274	290	300	**3%**
EU-28	943	950	1,000	**5%**
New Zealand	327	345	375	**9%**
United States	355	368	379	**3%**
Major Exporter Total	**2,052**	**2,123**	**2,224**	**5%**

Note: Data is rounded.

- Despite lower milk deliveries to start the year, **European Union-28** cheese production has nevertheless trended higher through April as milk was pulled away from the butter/powder stream. Elevated retail demand and a recovering hotel, institutional, restaurant (HRI) sector coupled with growing milk output is expected to support cheese production during the remainder of the year. For 2021, the cheese production forecast is revised up by 1 percent to 10.6 million tons which represents a 2.5 percent increase above 2020.

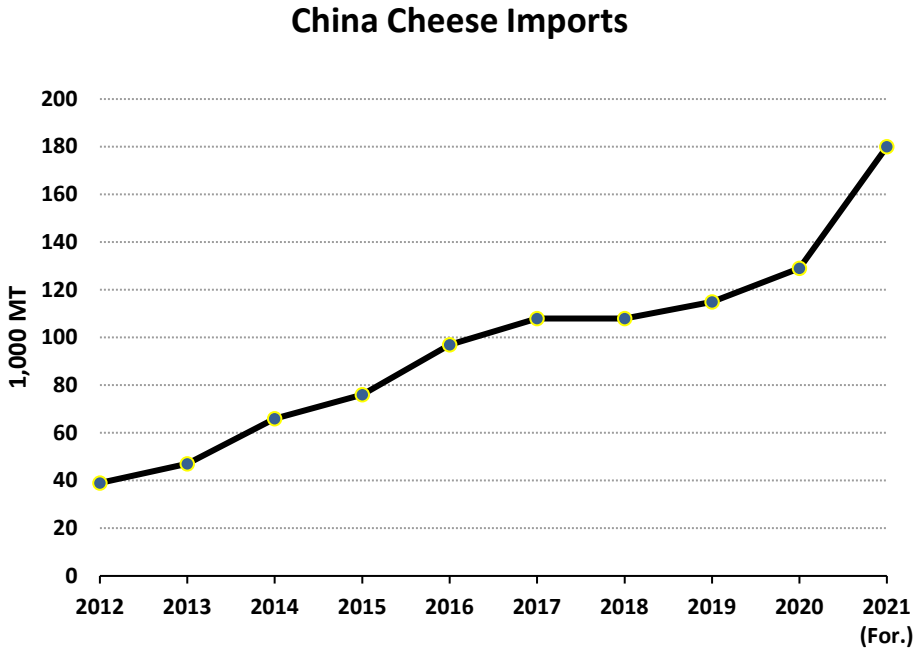
  In 2021, EU-28 cheese exports are expected to rise 6.0 percent over 2020 to 1.0 million tons as the global economy recovers and demand remains firm. Through April, shipments have been strong to Japan (+ 8 percent), Switzerland (+14 percent), Ukraine (+28 percent), and Saudi Arabia (+16 percent). This has offset weaker shipments to South Korea (-7 percent) and the United States (-4percent). Exports to the United States were sharply lower to start 2021 in the face of 25 percent retaliatory tariffs related to the World Trade Organization Airbus dispute. In March, the tariffs were suspended for 4 months and exports to the United States bounced back. Given the recent decision to suspend tariffs for another 5 years, this recovery in exports is likely to continue. Traditionally, U.S. imports dominate EU-28 cheese trade.

- The **New Zealand** cheese production forecast for 2021 is revised up by 9 percent to 375,000 tons as more manufacturing milk is expected to be available. Exports of New

Zealand cheese have expanded rapidly this year with January through May shipments up 19 percent year-over-year. This has been largely driven by the sharp increase in import demand from China. Over this period, New Zealand cheese shipments to China have grown by 87 percent to reach 44,000 tons by the end of May, accounting for about one-quarter of total cheese exports. Given strong import demand, the New Zealand cheese export forecast is revised up by 9 percent to reach a record 375,000 tons.

- The **U.S.** cheese export forecast is revised up 3 percent to 379,000 tons due to the current strong pace of exports to major markets as South Korea and Japan. Shipments of cheese in 2021 through May are up 6 percent year-over-year. Although exports to the major market of Mexico have been stagnant with shipments this year through May showing no growth, the Mexican economy is expected to recover in the second half of the year. Further, the lockdown restrictions due to COVID-19 are expected to be relaxed leading to higher demand from the HRI sector.

- The cheese import forecast for **China** is raised by 38 percent to a record 180,000 tons as the domestic market continues to expand at an unprecedented rate. Imports of cheese this year through May are up by two-thirds compared to the same period last year. Since 2012 through 2020, annual import demand has grown at an average annual rate of 16 percent. China is now expected to be the largest import market for cheese in the world surpassing the United States. The bulk of the market is supplied by New Zealand and the EU-28 accounting for 56 percent and 21 percent of the import market, respectively.



BUTTER (Includes Butteroil/AMF):

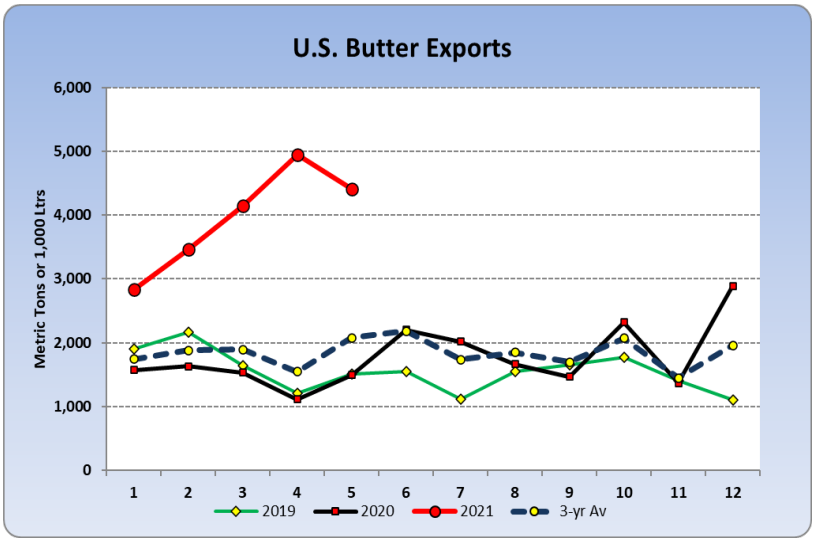
Butter Exports Summary for Major Exporters
(1,000 Butter Equivalent Tons)

	2020	Dec. 2021 Forecast	Revised 2021 Forecast	2021 Forecast Change
Belarus	69	65	75	**15%**
EU-28	247	260	200	**-23%**
New Zealand	471	495	435	**-12%**
United States	27	26	53	**104%**
Major Exporter Total	814	846	763	**-10%**

Note: Data is rounded.

- **European Union-28** butter production is expected to decline 0.8 percent year-over-year to 2.4 million tons, improving from the 1.9 percent decline posted January through April. Higher milk output as the year goes on will allow the declines in butter production to moderate, with high prices and low private stocks drawing milk to this product stream. Nevertheless, tighter supplies and growth in domestic consumption will keep butter from entering the international market. In 2021, butter exports are expected to decline 19.0 percent to 200,000 tons.

- In the **United States,** butter prices have been averaging around $3,750 per ton ($1.70 per lb.) which is well below the level of international prices. These prices have typically been above $4,400 per ton ($2.00 per lb.). Consequently, given this competitive edge, exports are expected to expand significantly. Already this year through May, shipments of U.S. butter have nearly tripled in comparison to the same period in 2020. This price advantage is expected to persist for the balance of the year and the export forecast is doubled from the December 2020 forecast to 53,000 tons from the December 2020 report. To date, most of the butter has been shipped to such traditional customers as Canada but also newer markets in Bahrain, Saudi Arabia, and Egypt.



SKIMMED MILK POWDER (SMP):

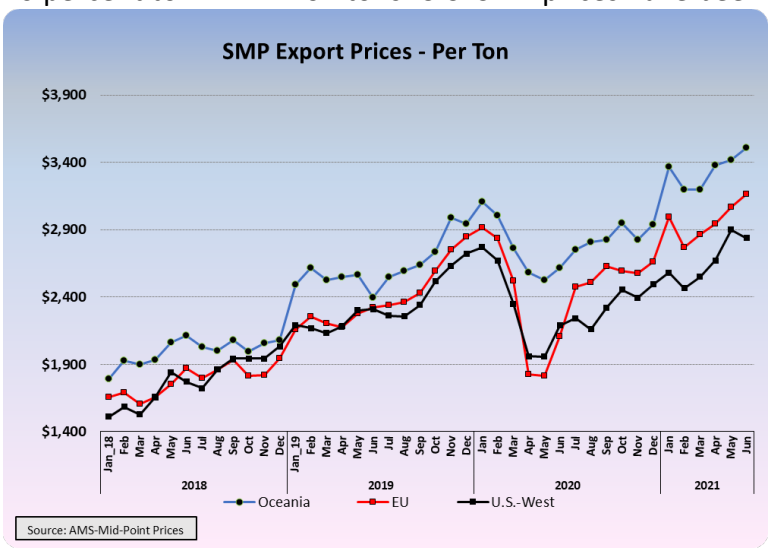
SMP Exports Summary for Major Exporters
(1,000 Tons)

	2020	Dec. 2021 Forecast	Revised 2021 Forecast	2021 Forecast Change
Australia	129	128	150	**17%**
Belarus	123	125	125	**0%**
EU-28	829	845	810	**-4%**
New Zealand	356	390	400	**3%**
United States	810	825	890	**8%**
Major Exporter Total	**2,247**	**2,313**	**2,375**	**3%**

Note Data is rounded.

- **European Union-28** SMP export forecast for 2021 is decreased by 4 percent to 810,000 tons; a decline 2 percent from 2020 to 810,000 tons on lower production. Through April, weaker year-over-year shipments to Algeria (-42 percent), Egypt (-19 percent), and Malaysia (-25 percent) have more than offset continued growth in shipments to China (+19 percent) and Indonesia (+84percent). Going forward, competitive U.S. SMP prices are likely to create headwinds to EU-28 exports.

- Reflecting the increased availability of milk, **U.S.** output of SMP has been greater than previously anticipated and the production forecast has been revised up significantly by 10 percent to 1.27 million tons. U.S. SMP prices have been particularly competitive in the international marketplace during the past year and shipments to Mexico and Asian markets have been gaining traction. Mexico, Philippines, and Vietnam have been the principal destination. During this year through May, shipments of SMP to Mexico are up 24 percent year-over-year reaching 134,000 tons. Since Mexico is forecast to import 350,000 tons of SMP – 13 percent higher than 2020 – U.S. shipments of SMP are expected to continue to accelerate. In addition, exports to the expanding import market of China have begun to grow rapidly. Although most U.S. dairy products are subject to Section 301 retaliatory tariffs of around 25 percent, China has allowed tariff exclusions



process which, if approved, provides the importer a one-year exemption from the tariffs. Given the bright outlook, the U.S. export forecast for SMP is raised by 8 percent to a record 890,000 tons. This would represent about 70 percent of the SMP of 2021 forecast production.

WHOLE MILK POWDER (WMP):

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

	2020	Dec. 2021 Forecast	Revised 2021 Forecast	2021 Forecast Change
Argentina	148	160	160	**6%**
Australia	37	50	60	**20%**
EU-28	332	340	330	**-3%**
New Zealand	1,533	1,535	1,650	**7%**
Major Exporter Total	**2,050**	**2,085**	**2,200**	**6%**

Note: Data is rounded.

- **China** is rebounding after the negative impact of the COVID-19 pandemic and economic growth (real GDP) growth is forecast at about 8 percent for this year. This has led to a surge in imports of WMP with to-date imports through May up 23 percent compared to the same period last year. Given this strength and the continued expectation of economic growth the import forecast is revised up 15 percent to 825,000 tons. Most of the WMP supply will originate from New Zealand which has a free trade agreement with China. This allows for all New Zealand dairy products to enter China duty-free.

- **New Zealand** shipments of WMP have been booming with exports averaging about 145,000 tons per month this year through May. This is 10 percent higher compared to the same period last year. Given the strong import demand from China and higher expected milk production, the export forecast is revised up to 1.65 million tons. In 2020, approximately 43 percent of WMP shipments were destined to China. This year through May, a similar percentage is also flowing to China.

U.S. Dairy Export Forecasts:

U.S. Dairy Products Export Forecast - Calendar Year 2021-2022

	2021(For)	Milk Equivalent (Bil. Lbs.) Fat	Skims	2022 (For)	Milk Equivalent (Bil. Lbs) Fat	Skims
NON-FAT DRY AND SKIM MILK PWDR	890,985 MT	0.4	20.9	910,000 MT	0.4	21.3
MILK POWDER > 1.5% MILK FAT	42,770 MT	0.6	0.7	42,500 MT	0.6	0.7
BUTTER/MILKFAT/SPREADS	51,186 MT	2.4	0.0	34,350 MT	1.6	0.0
CHEESE AND CURD	379,087 MT	5.7	3.1	383,350 MT	5.8	3.1
FLUID PRODUCTS 4/	182,304 Liters	0.5	0.4	176,200 Liters	0.5	0.4
DRIED WHEY PRODUCTS	606,679 MT	0.7	14.1	605,000 MT	0.7	13.9
LACTOSE	394,379 MT	0.0	9.7	388,000 MT	0.0	9.5
OTHER DAIRY PRODUCTS	213,347 MT	0.7	2.4	205,850 MT	0.6	2.4
TOTAL - Billion Pounds		11.0	51.3		10.3	51.3

Note: 1) CY 2021 includes actual exports through May 2021
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 on a Milk Equivalent Basis Through May 2021

Top Dest. -M.E. Milkfat Basis (Mill. lbs)	2021	
MEXICO	883	19%
SOUTH KOREA	534	11%
CANADA	500	11%
CHINA (MAINLAND)	291	6%
JAPAN	284	6%
AUSTRALIA	222	5%
Other	1,992	42%
TOTAL	4,706	

Top Dest.-M.E. Skim Basis (Mill. lbs)	2021	
MEXICO	4,407	20%
CHINA (MAINLAND)	4,377	20%
PHILIPPINES	1,572	7%
VIETNAM	1,560	7%
INDONESIA	1,296	6%
JAPAN	856	4%
Other	7,867	36%
TOTAL	21,934	

Additional Resources:

For additional information, please contact Paul Kiendl at 202-720-8870 or Paul.Kiendl@usda.gov or Jacob Vuillemin at 202-690-4476 or Jacob.Vuillemin@usda.gov

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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 16, 2021.

Circular Notes:

EU and UK Production, Supply and Distribution (PSD) Datasets and "Brexit" Effective January 1, 2021, the separation of the United Kingdom (UK) from the European Union (EU) is complete, including trade between both entities. USDA will continue using the term "European Union" to mean the countries involved in the previous customs union, i.e., EU27+UK, from January 2021 through October 2021 for livestock and poultry PSDs and through December 2021 for dairy PSDs. Starting in October 2021 with the release of the 2022 data, livestock and poultry PSDs will reflect EU27 and UK separately. Starting in December 2021 with the release of the 2022 data, dairy PSDs will reflect EU27 and UK separately.

- Fluid milk in liters is 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 for human and animal use 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, butter, SMP, and WMP for China is based on data published by the National Bureau of Statistics and the Organization for Economic Development.

- The milk production figures for Russia have been revised for the years 2007-2017 to reflect new data published by the Federal State Statistic Service (Rosstat) of Russia.

Fluid Milk - Cow Numbers: Summary For Selected Countries

1,000 Head

	2017	2018	2019	2020	2021 Dec	2021 Jul
Cows In Milk						
India	54,000	52,482	54,600	56,450	58,000	58,000
European Union	23,525	23,311	22,908	22,633	22,550	22,400
Brazil	16,262	16,300	16,500	16,200	16,400	16,400
Mexico	6,550	6,550	6,500	6,550	6,600	6,600
Russia	7,080	6,815	6,711	6,580	6,500	6,500
China	7,000	6,200	6,100	6,150	6,200	6,200
New Zealand	4,861	4,993	4,946	4,922	4,800	4,850
Ukraine	2,170	2,078	1,970	1,840	1,750	1,750
Argentina	1,672	1,640	1,598	1,610	1,615	1,615
Belarus	1,502	1,500	1,498	1,495	1,490	1,490
Australia	1,512	1,525	1,440	1,420	1,445	1,410
Canada	945	970	968	967	967	967
Japan	735	731	730	716	730	730
Korea, South	198	205	204	203	204	204
Taiwan	61	62	62	63	63	63
Philippines	12	11	11	12	12	12
Subtotal	128,085	125,373	126,746	127,811	129,326	129,191
United States	9,406	9,398	9,337	9,388	9,395	9,500
Total	137,491	134,771	136,083	137,199	138,721	138,691

Cows Milk Production and Consumption: Summary For Selected Countries

1,000 Metric Tons

	2017	2018	2019	2020	2021 Dec	2021 Jul
Cows Milk Production						
European Union	153,400	154,575	155,200	157,500	158,100	158,500
India	83,634	89,800	92,000	93,800	96,000	96,000
China	30,386	30,750	32,012	34,400	34,500	34,600
Russia	29,972	30,398	31,154	31,650	31,800	31,800
Brazil	23,624	23,745	24,262	23,505	24,000	24,000
New Zealand	21,530	22,017	21,896	21,980	22,200	22,400
Mexico	12,121	12,368	12,650	12,750	12,900	12,850
Argentina	10,090	10,837	10,640	11,445	11,575	11,700
Canada	9,675	9,944	9,903	9,950	9,980	9,980
Australia	9,462	9,451	8,832	9,099	9,400	9,225
Ukraine	10,275	10,070	9,646	9,000	8,600	8,500
Belarus	7,321	7,345	7,394	7,750	7,900	7,900
Japan	7,281	7,289	7,314	7,438	7,450	7,480
Korea, South	2,081	2,041	2,035	2,030	2,025	2,025
Taiwan	380	385	410	437	436	436
Philippines	15	16	17	18	19	19
Subtotal	411,247	421,031	425,365	432,752	436,885	437,415
United States	97,761	98,687	99,083	101,251	102,648	103,510
Total	509,008	519,718	524,448	534,003	539,533	540,925
Fluid Use Dom. Consum.						
India	72,185	77,000	79,000	81,000	83,000	83,000
European Union	33,550	33,500	33,300	33,500	33,350	33,500
China	12,810	12,700	13,200	13,000	13,000	14,020
Brazil	9,993	10,762	10,900	11,010	11,100	11,100
Russia	7,500	7,318	7,270	7,200	7,115	7,115
Ukraine	4,998	4,862	4,967	4,550	4,409	4,409
Mexico	4,174	4,183	4,190	4,145	4,175	4,149
Japan	3,974	3,995	4,000	4,000	4,005	4,005
Canada	2,884	2,832	2,816	2,875	2,910	2,910
Australia	2,530	2,620	2,536	2,528	2,550	2,545
Argentina	1,681	1,771	1,645	1,800	1,825	1,825
Korea, South	1,561	1,566	1,575	1,580	1,585	1,585
Belarus	1,065	1,050	1,055	1,075	1,085	1,085
New Zealand	497	515	520	525	525	525
Taiwan	408	420	446	476	482	482
Philippines	86	96	117	117	104	128
Subtotal	159,896	165,190	167,537	169,381	171,220	172,383
United States	22,067	21,623	21,250	21,200	21,000	21,000
Total	181,963	186,813	188,787	190,581	192,220	193,383

Cheese Production and Consumption: Summary For Selected Countries

1,000 Metric Tons

	2017	2018	2019	2020	2021 Dec	2021 Jul
Production						
European Union	10,050	10,160	10,210	10,340	10,450	10,600
Russia	951	970	983	1,035	1,060	1,060
Brazil	771	760	770	750	760	760
Argentina	514	444	523	488	537	537
Canada	497	510	515	510	515	515
Mexico	396	419	437	446	460	448
Australia	348	366	364	373	395	385
New Zealand	386	370	365	350	365	380
Belarus	260	275	300	346	360	365
China	249	276	282	283	300	300
Others	273	276	273	270	268	258
Total Foreign	14,695	14,826	15,022	15,191	15,470	15,608
United States	5,733	5,914	5,959	6,012	6,218	6,180
Total	20,428	20,740	20,981	21,203	21,688	21,788
Total Dom. Consumption						
European Union	9,297	9,386	9,394	9,460	9,560	9,670
Russia	1,141	1,200	1,231	1,319	1,340	1,366
Brazil	799	785	795	777	796	790
Mexico	511	526	551	549	575	555
Canada	504	537	539	540	550	550
China	357	384	397	412	430	480
Argentina	485	380	461	420	473	460
Japan	324	329	346	336	346	340
Australia	291	293	297	305	315	310
Ukraine	188	198	205	220	220	218
Others	343	337	350	371	378	390
Total Foreign	14,240	14,355	14,566	14,709	14,983	15,129
United States	5,494	5,675	5,751	5,750	5,950	5,934
Total	19,734	20,030	20,317	20,459	20,933	21,063

Cheese Trade: Summary For Selected Countries

1,000 Metric Tons

	2017	2018	2019	2020	2021 Dec	2021 Jul
Total Exports						
European Union	828	833	879	943	950	1,000
New Zealand	343	322	335	327	345	375
Belarus	189	211	244	274	290	300
Australia	171	172	160	153	170	170
Argentina	44	61	61	70	60	75
Russia	25	24	26	30	30	39
Mexico	7	16	7	11	10	18
Others	27	23	23	24	20	25
Total Foreign	1,634	1,662	1,735	1,832	1,875	2,002
United States	340	348	357	355	368	379
Total	1,974	2,010	2,092	2,187	2,243	2,381
Total Imports						
Russia	226	250	273	311	300	350
Japan	273	286	303	292	300	295
China	108	108	115	129	130	180
Korea, South	125	124	131	148	132	155
Mexico	122	123	121	114	125	125
Australia	116	98	97	98	90	95
European Union	60	59	63	63	60	70
Others	161	167	180	213	238	245
Total Foreign	1,191	1,215	1,283	1,368	1,375	1,515
United States	138	138	139	126	126	126
Total	1,329	1,353	1,422	1,494	1,501	1,641

Butter Production and Consumption: Summary For Selected Countries

1,000 Metric Tons

	2017	2018	2019	2020	2021 Dec	2021 Jul
Production						
India	5,400	5,600	5,850	6,100	6,300	6,300
European Union	2,340	2,345	2,375	2,410	2,450	2,390
New Zealand	525	550	525	500	520	490
Russia	270	256	268	278	280	280
Mexico	223	228	231	233	237	235
Canada	109	116	112	120	122	122
Belarus	120	115	110	110	105	115
China	99	108	110	110	111	111
Australia	103	93	70	75	80	83
Brazil	83	85	85	80	81	81
Others	199	199	184	191	180	189
Total Foreign	9,471	9,695	9,920	10,207	10,466	10,396
United States	838	893	905	973	992	970
Total	10,309	10,588	10,825	11,180	11,458	11,366
Domestic Consumption						
India	5,387	5,577	5,803	6,081	6,276	6,287
European Union	2,207	2,207	2,174	2,167	2,195	2,202
Russia	357	346	384	396	400	400
Mexico	264	250	277	266	287	261
China	195	226	198	231	249	259
Canada	121	124	141	139	142	147
Australia	115	117	104	105	110	105
Brazil	88	91	89	83	83	86
Japan	72	78	83	77	81	82
Ukraine	82	76	80	76	83	73
Others	127	110	115	112	112	118
Total Foreign	9,015	9,202	9,448	9,733	10,018	10,020
United States	849	898	940	978	1,038	995
Total	9,864	10,100	10,388	10,711	11,056	11,015

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

Butter Trade: Summary For Selected Countries

1,000 Metric Tons

	2017	2018	2019	2020	2021 Dec	2021 Jul
Total Imports						
China	98	120	91	123	140	150
Russia	99	88	117	131	118	118
Australia	35	42	40	43	40	40
Mexico	49	33	59	42	60	35
Canada	22	22	25	24	27	30
Taiwan	24	23	24	22	24	25
Japan	8	16	25	18	17	18
European Union	16	22	16	4	5	12
Ukraine	1	1	4	10	13	8
Brazil	5	6	5	3	2	5
Others	4	2	1	2	2	3
Total Foreign	361	375	407	422	448	444
United States	41	59	66	70	73	73
Total	402	434	473	492	521	517
Total Exports						
New Zealand	476	501	509	471	495	435
European Union	174	160	217	247	260	200
Belarus	73	78	67	69	65	75
Australia	16	17	18	16	17	25
Argentina	4	11	15	21	18	24
India	15	33	47	20	25	15
Ukraine	28	29	16	9	7	11
Mexico	8	11	13	9	10	9
Russia	3	3	2	3	4	3
Canada	1	2	2	5	2	2
Others	2	2	4	2	2	2
Total Foreign	800	847	910	872	905	801
United States	29	49	26	27	26	53
Total	829	896	936	899	931	854

Nonfat Dry Milk Production and Consumption: Summary For Selected Countries

1,000 Metric Tons

	2017	2018	2019	2020	2021 Dec	2021 Jul
Production						
European Union	1,725	1,735	1,760	1,820	1,830	1,760
India	570	600	635	660	680	680
New Zealand	402	410	375	370	385	390
Australia	187	201	150	155	155	165
Brazil	158	155	158	149	155	155
Japan	121	120	125	145	135	135
Belarus	110	122	126	126	126	129
Others	382	350	344	351	338	355
Total Foreign	3,655	3,693	3,673	3,776	3,804	3,769
United States	1,078	1,067	1,107	1,227	1,156	1,270
Total	4,733	4,760	4,780	5,003	4,960	5,039
Total Dom. Consumption						
European Union	985	1,127	979	993	988	954
India	576	572	601	636	675	680
China	276	299	358	355	386	501
Mexico	351	347	340	318	329	350
Indonesia	146	161	187	196	194	209
Philippines	147	159	177	204	205	206
Brazil	189	184	183	175	185	180
Others	763	742	709	698	717	675
Total Foreign	3,433	3,591	3,534	3,575	3,679	3,755
United States	430	369	422	402	349	378
Total	3,863	3,960	3,956	3,977	4,028	4,133

Nonfat Dry Milk Trade: Summary For Selected Countries

1,000 Metric Tons

	2017	2018	2019	2020	2021 Dec	2021 Jul
Total Imports						
China	247	280	344	336	365	480
Mexico	331	360	361	309	330	350
Indonesia	147	162	188	197	195	210
Philippines	157	159	177	179	190	185
Algeria	162	167	126	148	160	140
Russia	126	95	88	60	60	50
Taiwan	24	23	23	24	26	28
Brazil	31	29	25	26	30	25
Japan	59	52	47	39	35	23
Korea, South	23	25	24	17	25	16
Others	32	37	43	46	41	46
Total Foreign	1,339	1,389	1,446	1,381	1,457	1,553
United States	1	1	1	1	1	1
Total	1,340	1,390	1,447	1,382	1,458	1,554
Total Exports						
European Union	780	816	962	829	845	810
New Zealand	401	358	373	356	390	400
Australia	157	155	128	129	128	150
Belarus	109	121	124	123	125	125
Mexico	29	56	65	36	45	45
Argentina	20	23	22	28	25	35
Canada	72	66	47	39	30	25
Ukraine	29	23	20	16	12	20
India	10	43	8	5	20	15
Russia	2	1	1	2	3	5
Others	3	3	2	3	3	3
Total Foreign	1,612	1,665	1,752	1,566	1,626	1,633
United States	606	712	701	810	825	890
Total	2,218	2,377	2,453	2,376	2,451	2,523

Whole Milk Powder Production And Consumption: Summary For Selected Countries

1,000 Metric Tons

	2017	2018	2019	2020	2021 Dec	2021 Jul
Production						
New Zealand	1,380	1,450	1,490	1,549	1,535	1,625
China	1,080	965	1,052	992	1,200	950
European Union	760	732	740	750	770	760
Brazil	596	585	596	570	580	580
Argentina	170	192	188	213	250	250
Mexico	139	119	120	122	125	123
Indonesia	76	81	82	87	91	91
Chile	58	62	70	77	78	78
Russia	63	56	65	65	65	65
Belarus	50	50	45	49	52	60
Others	111	98	77	58	65	65
Total Foreign	4,483	4,390	4,525	4,532	4,811	4,647
United States	56	65	64	63	73	65
Total	4,539	4,455	4,589	4,595	4,884	4,712
Total Dom. Consumption						
China	1,598	1,534	1,722	1,585	1,939	1,824
Brazil	664	652	657	650	669	632
European Union	369	400	447	419	431	432
Algeria	235	245	250	248	270	260
Indonesia	128	142	135	136	140	155
Mexico	110	103	106	105	106	114
Russia	91	100	110	104	100	96
Chile	65	66	71	79	77	85
Argentina	75	75	84	80	98	83
Australia	32	35	33	40	40	40
Others	148	137	145	113	115	100
Total Foreign	3,515	3,489	3,760	3,559	3,985	3,821
United States	52	53	51	44	45	39
Total	3,567	3,542	3,811	3,603	4,030	3,860

Whole Milk Powder Trade: Summary For Selected Countries

1,000 Metric Tons

	2017	2018	2019	2020	2021 Dec	2021 Jul
Total Imports						
China	470	521	671	644	715	825
Algeria	262	271	236	254	255	245
Indonesia	47	59	54	51	50	70
Brazil	73	68	61	81	90	60
Taiwan	32	34	32	36	35	35
Russia	49	27	46	31	36	32
Australia	28	28	37	43	40	30
Philippines	19	23	32	29	32	20
Chile	12	8	3	9	4	10
Mexico	4	7	3	3	6	7
Others	24	15	21	3	4	4
Total Foreign	1,020	1,061	1,196	1,184	1,267	1,338
United States	22	9	14	23	12	14
Total	1,042	1,070	1,210	1,207	1,279	1,352
Total Exports						
New Zealand	1,342	1,369	1,536	1,533	1,535	1,650
European Union	393	334	298	332	340	330
Argentina	71	135	97	148	160	160
Australia	55	55	42	37	50	60
Belarus	29	33	23	27	30	40
Mexico	33	23	17	20	25	16
Brazil	5	1	0	1	1	8
Ukraine	4	4	9	4	4	7
China	2	2	1	1	1	1
Chile	4	4	4	2	3	1
Others	1	0	1	3	2	2
Total Foreign	1,939	1,960	2,028	2,108	2,151	2,275
United States	18	28	29	39	41	40
Total	1,957	1,988	2,057	2,147	2,192	2,315