

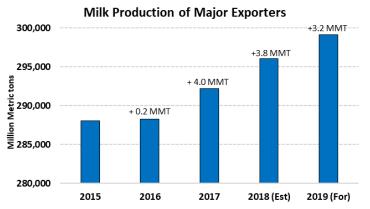
United States Department of Agriculture

Foreign Agricultural Service

December 2018

# Dairy: World Markets and Trade

The rate of growth in milk production among major exporters – Argentina, Australia, the European Union, New Zealand, and the United States – is forecast to remain slow in 2019 as the



impact of current drought in Australia and lower global prices are expected to lead to lower returns to farmers. Nevertheless, milk production among major exporters in 2019 is still expected to expand by 1 percent or about 3.2 million tons with the biggest gains in volume forecast to occur in the European Union and the United States. This slight reduction in

growth is unlikely to reverse the recent downtrend in global prices for most dairy products.

Although global dairy prices showed signs of recovering during the first half of 2018, they subsequently reversed course and started to decline during the second half of the year as the threat of drought in New Zealand and subsequently, the European Union, receded. Skimmed milk powder (SMP) peaked at a mid-point price of \$2,125 per ton FOB Oceania in late June and then dropped to around \$2,000 per ton by late November 2018. However, the slide in prices

has been particularly pronounced for butter. Over the same time span, butter prices peaked at around \$5,900 per ton and then dropped by about one third to \$3,940 per ton FOB in Oceania. In Europe, although export prices are higher, they have followed a similar trajectory despite the threat of a severe drought reducing milk production. This did not materialize, and EU milk output is expected to grow 1 percent annually in 2018 and 2019.



# **Dairy Production and Trade Developments**

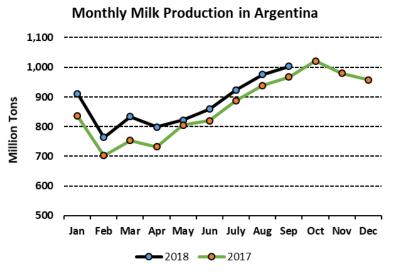
|                      | 2017  | 2018<br>Estimated | 2019<br>Forecast | 2018-2019<br>Change |
|----------------------|-------|-------------------|------------------|---------------------|
| Argentina            | 10.1  | 10.8              | 11.4             | +5%                 |
| Australia            | 9.5   | 9.4               | 9.3              | -1%                 |
| EU-28                | 153.4 | 154.8             | 156.2            | +1%                 |
| New Zealand          | 21.5  | 22.2              | 22.2             | 0%                  |
| United States        | 97.7  | 98.8              | 100.1            | +1%                 |
| Major Exporter Total | 292.2 | 296.0             | 299.2            | +1%                 |

#### Milk Production Summary for Major Exporters (Million Tons)

Note: Data is rounded.

#### Fluid Milk:

• Despite the drought conditions experienced early in the year and a challenging economic environment, milk production in <u>Argentina</u> this year is set to rebound by 7



percent to reach 10.8 million tons – a slight upward revision from the previous forecast. Milk output through September was already up 6 percent yearover-year (YOY). In addition, the seasonal production cycle peaks in the last quarter which accounts for nearly 30 percent of total milk output for the year.

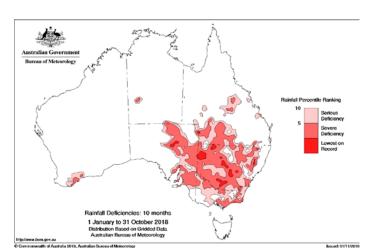
In 2016 and 2017, the dairy sector experienced significant and damaging floods that coupled with low milk prices

led to sharp declines in milk production; output dropped by 1.5 million tons over a 2year span. This year, improved farm gate prices have brought relief to farmers,

Source: Secretaria de Agroindustria, Argentina

however, this has been somewhat offset by the sharp devaluation of the Argentine peso which has contributed to an inflation rate of over 45 percent annually and forced the Government to raise interest rates to over 70 percent. Sources estimate that earlier this year dairy farmers have been receiving about US\$8.80 per cwt of milk while the breakeven milk price has been around US\$12.30 per cwt.

For 2019, the outlook is positive as milk production is expected to grow by 5 percent to reach 11.4 million tons based on higher prices, lower feed costs, and improved productivity. Since 2012, the herd size in Argentina has been declining as smaller and less efficient operations exit. This trend is expected to continue in 2019 as the herd shrinks by 3 percent. However, this is offset by higher yields per cow which are forecast to increase by 8 percent to 7,120 kg per cow.



• Australia, had a strong start with monthly YOY gains in milk production from January

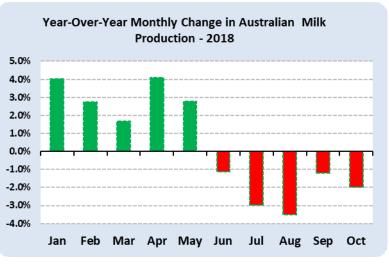
through May averaging over 2 percent. However, the onset of drought – particularly in the Southeast where the main production areas are located – has taken a toll on milk output. Australia's rainfall amount in September was the lowest ever recorded. As a result, cumulative milk production for the year through October is lagging last year's pace and the 2018 milk production forecast is lowered to

9.4 million tons, down marginally from 2017.

While there have been some beneficial rains in October and November, the Southeastern part of Australia suffers from a rainfall deficiency and low water storage

levels. The Australian Bureau of Meteorology is forecasting temperatures above normal for the summer through February 2019. They also note that while rainfall predictions remain neutral, higher temperatures will raise soil evaporation rates.

For 2019, due to the impact of drought on the herd plus



the associated rise in feed and water costs, milk output is forecast to decline by 1.5 percent to 9.3 million tons while the herd size is expected to decline fractionally.

Australian exports of fluid milk have been growing rapidly – averaging 18 percent annually between 2013-2017 – but have recently been slowing. For this reason, the 2018 forecast is revised down by 10,000 tons to 235,000 tons which is 10 percent above 2017. For 2019, exports are expected to continue expanding to reach 250,000 tons and import demand from the principal market – China – is expected to remain strong.

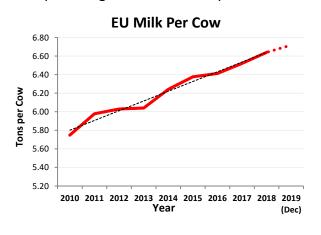
- Milk production in <u>Belarus</u> is expected to stabilize in 2019 at 7.4 million tons. Production has grown steadily over the past 5 years to supply Belarusian dairy products to Russia. However, demand has cooled from Russia and several products now face import restrictions imposed during mid-2018. Milk prices have fallen in Belarus, lowering incentives to increase production. Belarus's dairy industry remains exportoriented, with three-quarters of cheese and over 60 percent of butter production exported, mostly to Russia. Producers are expected to cut cow numbers by nearly 1 percent, but the decline will be largely offset by growth in milk per cow. Processors will shift more milk into butter and powder streams which are likely to provide better margins than cheese due to high cheese stocks.
- The milk production statistics for <u>China</u> are being revised down for the period 2007-2017 due to new data published by China's National Bureau of Statistics. In almost all years, milk output is being reduced by about 15 percent from previously published data.

For 2018, the milk production forecast is revised down by 7.5 million tons which represents a 2 percent decline over 2017. This decline is largely due to the continuing sectoral consolidation as small farms exit due to rising feed costs, stricter environmental regulations and low milk prices. Although mid-sized and larger-scale dairy farms are expanding they are unable to offset the production declines engendered by the departure of the small farms.

For 2019, the dairy is expected to continue consolidating with the herd shrinking by about 4 percent and milk production declining by 1 percent to 29.6 million tons. Domestic demand, however, is expected to increase and as a result imports of fluid milk are forecast to grow by 10 percent to a record 750,000 tons.

• The <u>European Union</u> milk production forecast for 2018 is revised down 750,000 tons to 154.8 million tons largely because of drought in the northern and eastern regions of Europe. Although cumulative milk production through September is up slightly above 1 percent YOY, the early-spring through summer drought led to shortages of feed supplies which are expected to impact negatively on milk output in the last quarter of 2018 and early 2019. In addition, although EU weighted average milk prices were ahead of last

years' level during the first quarter they have since been trailing with September prices 5 percent below last year. This is expected to persist throughout the balance of the year and slow milk production growth below 1 percent.



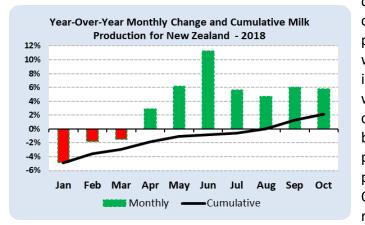
The EU herd is forecast to shrink slightly in 2019 but rising milk yields per cow will lead to a 1 percent growth in milk output – similar to the growth rate experienced in 2018.

In 2018, the herd was reduced by 1 percent particularly since Dutch dairy farmers were required to cull their herds to comply with new EU phosphate emission standards implemented in 2017. However, it appears that most of the culled cows were also the least productive.

The 2018 export forecast for fluid milk – largely in the form of Ultra High Temperature (UHT) milk - is cut by 10

percent from the previous forecast largely due to a sharp drop-off in sales to China. Sales of milk to China through September are down 15 percent in comparison to the same period last year. In 2019, shipments of milk are expected to grow by 3 percent to reach 790,000 tons.

- <u>Mexico's</u> milk production is forecast up 1 percent in 2019, as higher productivity offsets a small decline in the dairy herd. Mexico continues to expand milk production as consumer demand rises for processed dairy products. However, milk prices remain relatively low compared to production costs, stifling further investments in the sector. Strong demand for cheese, yogurt and other products will boost processing use, but also encourage higher imports of processed dairy products.
- The 2018 <u>New Zealand</u> milk production forecast is raised by 2 percent from July to 22.2 million tons as milk output has rebounded following a poor start early in the year due to



drought. Milk production by the end of the first quarter lagged last year's pace by 3 percent. However, this was followed by plentiful rain and ideal conditions for pasture growth which boosted milk output. These conditions carried through to the beginning of the peak seasonal production period and monthly milk production in September and October was up 6 percent YOY. As a result, the early deficit was erased as cumulative milk production for the year through end of October was up 2 percent YOY.

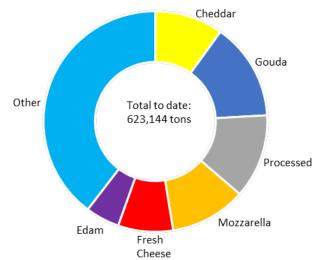
Although there had been concerns over the impact of the detection of Mycoplasma bovis in the herd, it appears that the initial fears of a potential cull of 150,000 head has receded. To date, 43,000 cows have been slaughtered from 36 infected farms leaving an additional 38 farms to be destocked. So far this spring only 3 additional farms have been identified as being infected.

The outlook for 2019 is for a slight contraction in the herd as farmers cut back on cows due to lower forecast milk prices. During the 2017/18 (June-May) season most farmers received a payout from Fonterra of NZ\$6.70/kilogram milk solids; however, in the 2018/19 season this is expected to drop to between NZ\$6.00 – NZ\$6.30/kilogram milk solids (US\$4.10-US\$4.30) due to lower global dairy product prices. Nevertheless, milk per cow yields are expected to rise slightly from 4.56 tons/cow to 4.58 tons/cow leading to a marginal expansion in total milk output.

- <u>Russia's</u> milk production is forecast 1 percent higher in 2019 to 31.9 million tons on small gains in milk per cow. The dairy herd will contract modestly, continuing a long-term declining trend. Lower milk prices are causing small farms to shutter while commercial dairies trim cow numbers. Producers are expected to cut costs by culling lower-yielding animals and coupled with genetic improvements, milk yields will be higher boosting overall production. A ban on imports from most dairy exporting countries continues to stimulate modest growth in domestic demand for milk and products. However, a sluggish economy limits stronger gains in dairy product consumption.
- <u>Ukraine's</u> dairy sector continues to contract, with milk production forecast 2-percent lower in 2019. Although the economy has expanded for 3 consecutive years, domestic demand for dairy products is relatively weak and export opportunities are limited. Cows in milk are expected to fall 4-percent, offset somewhat by growth in milk per cow. Nearly three-quarters of milk is produced by household farms where efficiency remains low. However, the exit of the least productive farms and improvements in genetics and farm management on remaining operations will contribute to growth in milk yields.

#### CHEESE:

• The 2018 cheese production forecast for the <u>European Union</u> is cut back to 10.2 million tons which represents an expansion of 1 percent over 2017. Domestic demand for cheese grew at an average rate of 2 percent from 2010-17. For 2018 domestic consumption is expected to be below average expanding by 1 percent.

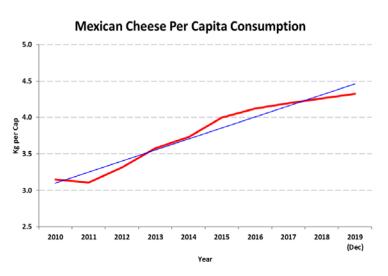


EU Exports of Major Cheese Categories Through September 2018

Exports in 2018 are expected to be at last year's level as shipments through September lag last year's pace due to slower sales to the United States and South Korea, down 7 percent and 24 percent, respectively. The major individual types of cheese exported by the EU comprise Gouda, Mozzarella, Cheddar, and Edam, overall accounting for about 40 percent of exports.

Cheese production in 2019 is forecast to grow by 1 percent with most of the additional cheese being channeled into the domestic market. Exports are forecast to grow by 1 percent to reach 840,000 tons with the added cheese expected to be shipped to the Japanese, North African and Middle Eastern markets. Cheese consumption in 2019 is expected to increase, but growth at just under 1 percent will remain below the recent trend.

• Imports of cheese by Mexico through September 2018 are up fractionally in comparison



to the same period last year and total cheese imports for the year are forecast to remain flat at last year's level. Imports from the United States through September are up 5 percent YOY. However, retaliatory tariff import tariffs were imposed by Mexico in July 2018 and monthly imports of U.S. cheese in August and September were below 2017. For 2019, although domestic production is slated to grow by 3 percent, imports are forecast to rise to 125,000 tons. Domestic demand remains robust and has been growing steadily for the past several years.

• The <u>New Zealand</u> export forecast for 2018 is revised down 6 percent from July to 320,000 tons due to the sluggish pace of sales this year. This would represent a 7 percent decline from 2017. Shipments of cheese this year through October are up YOY to such markets as Japan and South Korea but have been more than offset by lower shipments to Australia and China. Although the Chinese import market has been expanding rapidly in the last few years, reported cumulative exports of cheese by major countries to China for this year through September are down 11 percent. In 2017, exporting nations shipped a total of 115,000 tons of cheese to China with New Zealand supplying nearly half of the market.

For 2019, cheese production in New Zealand is forecast to expand by 1 percent to 384,000 tons. On a milk-fat-equivalent basis this will account for about 13 percent of the milk supply. Exports are also expected to grow by 9 percent with the bulk of the cheese expected to go the current top three markets, Japan, Australia, and China, as well as other Asian countries. The increase in exports is expected to result in lower ending stocks.

- Cheese production in <u>Russia</u> is forecast 1 percent lower in 2019 as high stocks are expected to weigh on wholesale cheese prices. Abundant and low-priced fluid milk and milk powder supplies drove an uptick in 2018 cheese production as processors sought to convert perishable milk and powder supplies into cheeses with longer shelf life. Consumer demand is growing for higher-quality hard cheeses but has been unable to fully absorb the growth in production, driving end-year stocks higher. As a result, imports are forecast to decline by 2 percent in 2019.
- Despite the challenges facing <u>U.S.</u> exports of cheese, the forecast for 2018 is revised up by 4 percent to 347,000 tons. This would represent a 2 percent annual increase over 2017. Mexico, which accounts for nearly 30 percent of total U.S. exports of cheese through October, imposed retaliatory import tariffs in early July that slowed imports of U.S. cheese during the third quarter. However, cheese shipments to Mexico in October rebounded and the year-to-date pace is currently equal with last year's pace. In addition, U.S. cheese remains competitive in the world market and has posted gains in key Asian markets such as South Korea and Japan.

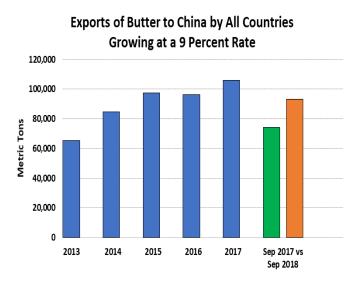
The outlook for 2019 is for a more competitive market environment as global cheese prices are expected to continue to slide and there will likely be increased exportable supplies from the EU and New Zealand. Consequently, the U.S. cheese forecast is set at 334,000 tons or about 4 percent below 2018.

#### **BUTTER:**

• Butter production in the <u>European Union</u> through September is up 1.5 percent YOY; however, this was lower than anticipated and appears to be due to a reduction in the available milk supply following drought in the spring and summer. As a result, the butter production forecast for 2018 is scaled back slightly to 2.4 million tons. With lower available supplies of butter, exports through September have been trailing last year's pace for the comparable period by 11 percent. Although shipments to the U.S. market are up, this has been offset by lower sales to Saudi Arabia, China, Iran, and Mexico. Consequently, the export forecast is cut back by 20,000 tons to 155,000 tons.

For 2019, EU milk supplies are set to increase and with greater cream availability butter output is set to rise by 1.5 percent. While most of the additional supply will be channeled into the domestic market, exports are expected grow by 7 percent to 165,000 tons.

 Although <u>New Zealand</u> shipments of butter through October are up 9 percent YOY, the forecast is trimmed by 4 percent from July to 505,000 tons. Nevertheless, this is still a gain of 6 percent over 2017. New Zealand is particularly benefitting from the inroads it has made into the Chinese market with shipments growing by an average of 11 percent



annually over the past 5 years. It appears that these shipments are accelerating as New Zealand butter exports to China through October are up over one third in comparison to the same period last year. This market is likely to become more important in the future as total butter exports by all countries to China have been expanding at an average rate of 9 percent annually.

For 2019, butter output is forecast to remain flat at 530,000 tons. However, exports are expected to

grow by 1 percent with stocks forecast to be drawn down to sustain shipments.

After several years of lackluster exports, shipments of <u>U.S.</u> butter (equivalent, i.e., including butteroil/anhydrous milk fat) are expected to reach 52,000 tons for this year-up 21 percent from the previous forecast. If realized, this will represent a near 80–percent rise in butter exports over 2017. About 70 percent of the shipments through

October have been equally destined for Mexico and Canada. However, Mexico has become a major market for U.S. butteroil/anhydrous milk fat, accounting for nearly 80 percent of the total butteroil/AMF shipped during this period. In contrast, most of the shipments to Canada were in the form of butter and accounted for nearly 50 percent of the U.S. butter exported through October.

In 2019, exports of U.S. butter (equivalent) are expected to decline by 14 percent to 45,000 tons due to greater global competition and lower sales of butter to Canada. Canadian imports of butter from all sources are expected to drop by 50 percent due to higher domestic milk production and greater availability of milk fat.

U.S. imports of butter are forecast to climb by 12 percent to reach 54,000 tons with about 60 percent comprising butter and the balance as butteroil/AMF (butter equivalent). About 80 percent of the butter imported this year through October appears to be premium butter originating from Ireland. For 2019, imports of butter are anticipated to be flat from 2018.

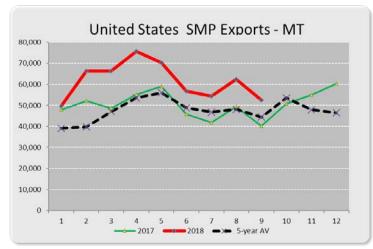
#### **SKIMMED MILK POWDER (SMP):**

 The 2018 forecast for SMP production in the <u>European Union</u> is revised down fractionally from the July forecast but is expected to rise by 4 percent in 2019 to reach 1.9 million tons. On the trade side, the 2018 export forecast is cut by 22,000 tons to 828,000 tons which nevertheless represents a 6 percent gain over the exceptionally strong sales recorded in 2017. For 2019, shipments of SMP are expected to decline fractionally from 2018.

The EU has been grappling for the past several years (starting in 2016) with the substantial accumulation of SMP intervention stocks which peaked at 378,000 tons at the end of 2017. To restrict a build-up of stocks, the EU Commission effectively stopped purchases by implementing a temporary policy setting the buying-in price of SMP at zero during the open intervention period, i.e., March 1 to September 30. Normally the buying-in or market support price is set at €1,698 per ton (\$1,935 per ton). The EU has also been aggressively selling old stocks to reduce the volumes overhanging the market. Since the beginning of this year, the EU Commission has sold some 125,000 tons of intervention SMP, leaving a balance of 253,000 tons at the end of October. The EU plans to continue to offer these surplus volumes via tenders while trying to limit any price impact on the domestic market.

 <u>Mexico's</u> imports of SMP have accelerated during 2018 and are forecast 7 percent higher due to low global prices and strong demand by domestic dairy processors. Consumption of processed dairy products continues to rise in Mexico, boosting use of SMP in cheese, yogurt, and reconstituted fluid milk production. Domestic production of SMP remains limited by modest growth in domestic milk supplies and competitive prices of imported SMP. With global prices expected to remain low in 2019, imports are forecast 6 percent higher at 375,000 metric tons.

 The 2018 <u>U.S.</u> export forecast for SMP is set at 729,000 tons, up slightly – 9,000 tons from the previous forecast. This represents a significant rebound – about 20 percent – over 2017 when U.S. SMP faced intense competition in global markets particularly from



the EU. Shipment data through October 2018, indicate that Mexico remains a key market accounting for nearly 50 percent of total SMP exported. However, over this period, there have also been significant gains in other such critical markets as the Philippines, Indonesia, Malaysia, and Vietnam. There has also been some loss of market share in China where

the retaliatory tariffs likely have contributed to a sharp drop in shipped volumes to that market– down over a third in comparison to last year.

For 2019, U.S. exports of SMP are projected to drop slightly by 5 percent to 695,000 tons as global prices are expected to remain at relatively low levels and international competition intensifies. The retaliatory import tariffs imposed by China are expected to dampen export prospects. Sales of U.S. SMP during the past 5 years to China have averaged 38,000 tons annually.

<u>New Zealand's</u> shipments of SMP through October 2018 have been surprisingly low – down 14 percent over the comparable period last year. It appears that much of the flagging pace was due to lower sales to China, its principal market. Additionally, shipments to other key markets particularly in Asia were all lower in comparison to last year. Consequently, the export forecast was lowered by 17 percent from July to 340,000 tons.

Exports of SMP are expected to rebound in 2019 growing by 12 percent to reach 380,000 tons. Although SMP production is forecast to decline slightly, a high volume of stocks is expected to supply ample exportable supplies.

#### WHOLE MILK POWDER (WMP):

 Imports of WMP by <u>China</u> in 2018 are expected to be 2 percent lower than last year as domestic demand is slowing, and domestic stocks are drawn down. Further, there are indications that high-end consumers are switching their preference from reconstituted dairy products produced with imported ingredients to fresh milk products.

For 2019, China's imports of WMP are forecast to grow by about 9 percent to 500,000 tons as the domestic production of WMP is not expected to meet domestic needs. New Zealand has been the major supplier to this market accounting for 90 percent of the WMP imported by China in 2017. New Zealand also benefits from the New Zealand-China Free Trade Agreement which allows New Zealand WMP to be imported into China in 2019 at a duty-free rate for up to 162,482 tons. Other nations face a 10-percent tariff.

• During the first 10 months of this year, **New Zealand** exports of WMP have been lower than anticipated and the forecast is revised down by 7 percent to 1.3 million tons. These lower sales have been particularly evident with shipments to its principal market, China, down 9 percent relative to last year. This is expected to lead to a substantial rise in ending stocks for this year.

In 2019, WMP exports are forecast to rebound by 6 percent to 1.38 million tons particularly as China's imports of WMP are expected to grow. Further, the recent downward trend in WMP prices is likely to extend into 2019 and stimulate global import demand.

#### **U.S. Dairy Export Forecasts:**

|                                |                | Milk Equivale | nt (Bil. Lbs.) |                | Milk Equivalent (Bil. L |       |  |
|--------------------------------|----------------|---------------|----------------|----------------|-------------------------|-------|--|
|                                | 2018 (For)     | Fat           | Skims          | 2019 (For)     | Fat                     | Skims |  |
|                                |                |               |                |                |                         |       |  |
| NON-FAT DRY AND SKIM MILK PWDR | 729,160 MT     | 0.3           | 17.2           | 694,800 MT     | 0.3                     | 16.4  |  |
|                                |                |               |                |                |                         |       |  |
| MILK POWDER > 1.5% MILK FAT    | 50,022 MT      | 0.7           | 0.8            | 39,000 MT      | 0.5                     | 0.6   |  |
|                                |                |               |                |                |                         |       |  |
| BUTTER/MILKFAT/SPREADS         | 47,356 MT      | 2.4           | 0.0            | 41,405 MT      | 2.1                     | 0.0   |  |
|                                | 346 705 MAT    |               | 2.0            | 224 200 147    |                         |       |  |
| CHEESE AND CURD                | 346,785 MT     | 5.4           | 2.8            | 334,200 MT     | 5.2                     | 2.7   |  |
| FLUID PRODUCTS 4/              | 153,133 Liters | 0.4           | 0.3            | 145,700 Liters | 0.5                     | 0.3   |  |
|                                |                |               |                | ,              |                         |       |  |
| DRIED WHEY PRODUCTS            | 543,194 MT     | 0.7           | 12.6           | 537,750 MT     | 0.7                     | 12.4  |  |
|                                |                |               |                |                |                         |       |  |
| LACTOSE                        | 395,965 MT     | 0.0           | 9.7            | 395,000 MT     | 0.0                     | 9.7   |  |
|                                |                |               |                |                |                         |       |  |
| OTHER DAIRY PRODUCTS           | 187,252 MT     | 0.7           | 1.8            | 195,350 MT     | 0.7                     | 1.9   |  |
|                                |                |               |                |                |                         |       |  |
| TOTAL - Billion Pounds         |                | 10.6          | 45.2           |                | 10.0                    | 44.1  |  |

#### U.S. Dairy Products Export Forecast - Calendar Year 2017-2018

Note: 1) CY 2018 includes actual exports through October 2018
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 October 2018**

| Top Destinations-M.E. Milkfat Basis (Mil | <mark>2018</mark> |
|--|-------------------|
| MEXICO                                   | 2,542             |
| CANADA                                   | 890               |
| SOUTH KOREA                              | 813               |
| CHINA (MAINLAND)                         | 582               |
| JAPAN                                    | 569               |
| AUSTRALIA                                | 414               |
| Other                                    | 3,151             |
| TOTAL                                    | 8,962             |

| Top Destinations-M.E. Skim Basis (Mill. lb | 2018   |
|--|--------|
| MEXICO                                     | 10,033 |
| CHINA (MAINLAND)                           | 7,016  |
| PHILIPPINES                                | 2,799  |
| JAPAN                                      | 2,043  |
| INDONESIA                                  | 1,968  |
| VIETNAM                                    | 1,825  |
| Other                                      | 12,745 |
| TOTAL                                      | 38,428 |

#### **Additional Resources:**

For additional information, please contact Paul Kiendl at 202-720-8870 or <u>Paul.Kiendl@fas.usda.gov</u> or Lindsay Kuberka at 202-644-4650 or <u>Lindsay.Kuberka@fas.usda.gov</u>

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

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

The next publication of this circular will be on July 18, 2019.

#### Cows Milk Production and Consumption: Summary For Selected Countries

|                        | 1,000 Metric Tons |         |         |         |         |             |  |
|------------------------|-------------------|---------|---------|---------|---------|-------------|--|
|                        | 2014              | 2015    | 2016    | 2017    | 2018    | 2019<br>Dec |  |
|                        |                   |         |         |         |         |             |  |
| Cows Milk Production   |                   |         |         |         |         |             |  |
| Argentina              | 11,326            | 11,552  | 10,191  | 10,090  | 10,837  | 11,380      |  |
| Australia              | 9,798             | 10,091  | 9,486   | 9,462   | 9,440   | 9,300       |  |
| Belarus                | 6,705             | 7,044   | 7,140   | 7,320   | 7,350   | 7,350       |  |
| Brazil                 | 25,489            | 24,770  | 22,726  | 23,624  | 22,659  | 23,150      |  |
| Canada                 | 8,437             | 8,773   | 9,081   | 9,675   | 9,940   | 10,115      |  |
| China                  | 31,599            | 31,798  | 30,640  | 30,386  | 29,750  | 29,600      |  |
| European Union         | 146,500           | 150,200 | 151,000 | 153,400 | 154,800 | 156,200     |  |
| India                  | 60,500            | 64,000  | 68,000  | 72,000  | 76,000  | 80,000      |  |
| Japan                  | 7,334             | 7,379   | 7,394   | 7,281   | 7,230   | 7,275       |  |
| Korea, South           | 2,214             | 2,169   | 2,070   | 2,081   | 2,045   | 2,030       |  |
| Mexico                 | 11,464            | 11,736  | 11,956  | 12,121  | 12,281  | 12,380      |  |
| New Zealand            | 21,893            | 21,587  | 21,224  | 21,510  | 22,155  | 22,200      |  |
| Russia                 | 30,499            | 30,548  | 30,510  | 30,934  | 31,450  | 31,875      |  |
| Taiwan                 | 363               | 374     | 380     | 380     | 385     | 385         |  |
| Ukraine                | 11,152            | 10,584  | 10,375  | 10,275  | 10,070  | 9,900       |  |
| Others                 | 20                | 13      | 14      | 15      | 16      | 17          |  |
| Subtotal               | 385,293           | 392,618 | 392,187 | 400,554 | 406,408 | 413,157     |  |
| United States          | 93,465            | 94,618  | 96,345  | 97,734  | 98,792  | 100,063     |  |
| Total                  | 478,758           | 487,236 | 488,532 | 498,288 | 505,200 | 513,220     |  |
| Fluid Use Dom. Consum. |                   |         |         |         |         |             |  |
| Argentina              | 2,044             | 2,084   | 1,708   | 1,681   | 1,762   | 1,782       |  |
| Australia              | 2,600             | 2,700   | 2,550   | 2,530   | 2,500   | 2,470       |  |
| Belarus                | 1,054             | 1,065   | 1,050   | 1,065   | 1,050   | 1,055       |  |
| Brazil                 | 9,660             | 9,573   | 9,600   | 9,993   | 9,749   | 10,050      |  |
| Canada                 | 2,946             | 2,923   | 2,917   | 2,884   | 2,820   | 2,800       |  |
| China                  | 12,970            | 13,130  | 12,555  | 12,810  | 12,700  | 12,270      |  |
| European Union         | 34,066            | 33,800  | 33,600  | 33,550  | 33,300  | 33,150      |  |
| India                  | 57,000            | 59,750  | 62,750  | 65,200  | 66,800  | 69,800      |  |
| Japan                  | 3,911             | 3,935   | 3,992   | 3,979   | 3,980   | 3,980       |  |
| Korea, South           | 1,540             | 1,529   | 1,500   | 1,561   | 1,575   | 1,580       |  |
| Mexico                 | 4,180             | 4,185   | 4,183   | 4,174   | 4,183   | 4,185       |  |
| New Zealand            | 495               | 497     | 497     | 497     | 500     | 500         |  |
| Russia                 | 9,859             | 9,500   | 8,960   | 8,555   | 8,300   | 7,955       |  |
| Taiwan                 | 369               | 384     | 397     | 408     | 420     | 421         |  |
| Ukraine                | 5,538             | 5,385   | 5,241   | 4,998   | 4,855   | 4,800       |  |
| Others                 | 62                | 57      | 85      | 76      | 80      | 83          |  |
| Subtotal               | 148,294           | 150,497 | 151,585 | 153,961 | 154,574 | 156,881     |  |
| United States          | 23,721            | 23,378  | 23,220  | 22,719  | 22,220  | 21,780      |  |
| Total                  | 172,015           | 173,875 | 174,805 | 176,680 | 176,794 | 178,661     |  |

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

| 1,000 Head     |         |         |         |         |         |        |  |
|----------------|---------|---------|---------|---------|---------|--------|--|
|                | 2014    | 2015    | 2016    | 2017    | 2018    | 2019   |  |
|                |         |         |         |         |         | Dec    |  |
| ows In Milk    |         |         |         |         |         |        |  |
| Argentina      | 1,826   | 1,786   | 1,720   | 1,672   | 1,645   | 1,598  |  |
| Australia      | 1,647   | 1,689   | 1,562   | 1,512   | 1,525   | 1,520  |  |
| Belarus        | 1,525   | 1,533   | 1,512   | 1,520   | 1,515   | 1,50   |  |
| Brazil         | 16,825  | 17,426  | 17,430  | 16,262  | 16,215  | 16,30  |  |
| Canada         | 955     | 954     | 945     | 945     | 965     | 96     |  |
| China          | 8,400   | 8,400   | 8,000   | 7,600   | 7,200   | 6,90   |  |
| European Union | 23,468  | 23,559  | 23,548  | 23,525  | 23,311  | 23,25  |  |
| India          | 50,500  | 52,500  | 54,500  | 56,500  | 58,500  | 60,60  |  |
| Japan          | 773     | 750     | 752     | 735     | 731     | 73     |  |
| Korea, South   | 208     | 197     | 194     | 198     | 205     | 20     |  |
| Mexico         | 6,350   | 6,400   | 6,450   | 6,550   | 6,550   | 6,50   |  |
| New Zealand    | 5,176   | 5,056   | 4,998   | 4,861   | 4,860   | 4,85   |  |
| Philippines    | 18      | 10      | 11      | 12      | 12      | 1      |  |
| Russia         | 8,050   | 7,750   | 7,235   | 7,080   | 7,000   | 6,90   |  |
| Taiwan         | 60      | 62      | 61      | 61      | 62      | 6      |  |
| Ukraine        | 2,509   | 2,322   | 2,226   | 2,170   | 2,078   | 2,00   |  |
| Subtotal       | 128,290 | 130,394 | 131,144 | 131,203 | 132,374 | 133,89 |  |
| United States  | 9,257   | 9,314   | 9,325   | 9,392   | 9,385   | 9,36   |  |
| Total          | 137,547 | 139,708 | 140,469 | 140,595 | 141,759 | 143,25 |  |

# Cheese Production and Consumption: Summary For Selected Countries

|                       | 1,000 Metric Tons |        |        |        |        |             |
|-----------------------|-------------------|--------|--------|--------|--------|-------------|
|                       | 2014              | 2015   | 2016   | 2017   | 2018   | 2019<br>Dec |
|                       |                   |        |        |        |        |             |
| Production            |                   |        |        |        |        |             |
| Algeria               | 0                 | 0      | 0      | 0      | 0      |             |
| Argentina             | 562               | 566    | 552    | 514    | 555    | 58          |
| Australia             | 328               | 343    | 344    | 348    | 360    | 35          |
| Belarus               | 226               | 241    | 275    | 260    | 275    | 27          |
| Brazil                | 736               | 754    | 745    | 771    | 755    | 77          |
| Canada                | 396               | 419    | 445    | 497    | 510    | 51          |
| European Union        | 9,560             | 9,740  | 9,810  | 10,050 | 10,160 | 10,23       |
| Japan                 | 46                | 46     | 47     | 46     | 45     | 4           |
| Korea, South          | 24                | 23     | 25     | 35     | 43     | 4           |
| Mexico                | 343               | 363    | 375    | 396    | 410    | 42          |
| New Zealand           | 325               | 355    | 360    | 378    | 380    | 38          |
| Philippines           | 2                 | 2      | 2      | 2      | 0      |             |
| Russia                | 760               | 861    | 865    | 951    | 975    | 96          |
| Taiwan                | 0                 | 0      | 0      | 0      | 0      |             |
| Ukraine               | 203               | 190    | 186    | 190    | 192    | 19          |
| Total Foreign         | 13,511            | 13,903 | 14,031 | 14,438 | 14,660 | 14,78       |
| United States         | 5,222             | 5,367  | 5,525  | 5,742  | 5,878  | 5,99        |
| Total                 | 18,733            | 19,270 | 19,556 | 20,180 | 20,538 | 20,77       |
| otal Dom. Consumption |                   |        |        |        |        |             |
| Algeria               | 0                 | 0      | 0      | 0      | 0      |             |
| Argentina             | 508               | 524    | 508    | 485    | 510    | 52          |
| Australia             | 265               | 270    | 275    | 291    | 296    | 30          |
| Belarus               | 67                | 69     | 71     | 72     | 74     | 7           |
| Brazil                | 754               | 773    | 785    | 799    | 781    | 79          |
| Canada                | 407               | 415    | 458    | 504    | 530    | 55          |
| European Union        | 8,884             | 9,087  | 9,093  | 9,295  | 9,390  | 9,45        |
| Japan                 | 278               | 295    | 305    | 325    | 331    | 34          |
| Korea, South          | 118               | 137    | 136    | 159    | 163    | 16          |
| Mexico                | 438               | 475    | 496    | 511    | 525    | 53          |
| New Zealand           | 40                | 41     | 42     | 46     | 48     | 5           |
| Philippines           | 20                | 21     | 23     | 25     | 0      |             |
| Russia                | 1,072             | 1,052  | 1,076  | 1,141  | 1,170  | 1,18        |
| Taiwan                | 26                | 29     | 32     | 32     | 31     | 3           |
| Ukraine               | 197               | 184    | 187    | 188    | 197    | 20          |
| Total Foreign         | 13,074            | 13,372 | 13,487 | 13,873 | 14,046 | 14,22       |
| United States         | 4,977             | 5,149  | 5,379  | 5,501  | 5,630  | 5,83        |
| Total                 | 18,051            | 18,521 | 18,866 | 19,374 | 19,676 | 20,05       |

#### Cheese Trade: Summary For Selected Countries 1.000 Metric Tons

| 1,000 Metric Tons |       |       |       |       |       |             |
|-------------------|-------|-------|-------|-------|-------|-------------|
|                   | 2014  | 2015  | 2016  | 2017  | 2018  | 2019<br>Dec |
|                   |       |       |       |       |       |             |
| fotal Exports     |       |       |       |       |       |             |
| Argentina         | 56    | 43    | 53    | 44    | 40    | 5           |
| Australia         | 151   | 171   | 167   | 171   | 175   | 17          |
| Belarus           | 167   | 183   | 205   | 189   | 205   | 20          |
| European Union    | 721   | 719   | 800   | 830   | 830   | 84          |
| New Zealand       | 278   | 327   | 355   | 343   | 320   | 35          |
| Others            | 68    | 55    | 55    | 59    | 52    | 5           |
| Total Foreign     | 1,441 | 1,498 | 1,635 | 1,636 | 1,622 | 1,68        |
| United States     | 368   | 317   | 287   | 341   | 347   | 33          |
| Total             | 1,809 | 1,815 | 1,922 | 1,977 | 1,969 | 2,01        |
| otal Imports      |       |       |       |       |       |             |
| Australia         | 80    | 89    | 99    | 116   | 105   | 11          |
| Japan             | 232   | 249   | 258   | 273   | 287   | 29          |
| Korea, South      | 97    | 112   | 110   | 125   | 121   | 13          |
| Mexico            | 99    | 116   | 126   | 122   | 122   | 12          |
| Russia            | 349   | 220   | 230   | 226   | 235   | 23          |
| Others            | 202   | 181   | 221   | 207   | 185   | 19          |
| Total Foreign     | 1,059 | 967   | 1,044 | 1,069 | 1,055 | 1,09        |
| United States     | 127   | 157   | 165   | 137   | 141   | 14          |
| Total             | 1,186 | 1,124 | 1,209 | 1,206 | 1,196 | 1,23        |

# Butter Production and Consumption: Summary For Selected Countries

| 1,000 Metric Tons    |       |       |        |        |        |             |
|----------------------|-------|-------|--------|--------|--------|-------------|
|                      | 2014  | 2015  | 2016   | 2017   | 2018   | 2019<br>Dec |
|                      |       |       |        |        |        |             |
| Production           |       |       |        |        |        |             |
| Algeria              | 0     | 0     | 0      | 0      | 0      |             |
| Argentina            | 52    | 50    | 47     | 46     | 50     | 5           |
| Australia            | 125   | 120   | 110    | 103    | 100    | 10          |
| Belarus              | 107   | 113   | 118    | 120    | 116    | 11          |
| Brazil               | 85    | 83    | 82     | 83     | 85     | 8           |
| Canada               | 88    | 91    | 93     | 109    | 123    | 12          |
| European Union       | 2,250 | 2,335 | 2,345  | 2,340  | 2,375  | 2,41        |
| India                | 4,887 | 5,035 | 5,200  | 5,400  | 5,600  | 5,85        |
| Japan                | 61    | 65    | 66     | 60     | 60     | 6           |
| Mexico               | 207   | 216   | 217    | 223    | 226    | 22          |
| New Zealand          | 580   | 594   | 570    | 525    | 530    | 53          |
| Russia               | 252   | 260   | 246    | 270    | 263    | 27          |
| Taiwan               | 0     | 0     | 0      | 0      | 0      |             |
| Ukraine              | 115   | 103   | 103    | 109    | 106    | 10          |
| Total Foreign        | 8,809 | 9,065 | 9,197  | 9,388  | 9,634  | 9,94        |
| United States        | 842   | 839   | 834    | 838    | 860    | 87          |
| Total                | 9,651 | 9,904 | 10,031 | 10,226 | 10,494 | 10,81       |
| Domestic Consumption |       |       |        |        |        |             |
| Algeria              | 0     | 0     | 0      | 0      | 0      |             |
| Argentina            | 38    | 41    | 42     | 43     | 46     | 4           |
| Australia            | 89    | 94    | 102    | 115    | 122    | 13          |
| Belarus              | 53    | 43    | 41     | 48     | 43     | 4           |
| Brazil               | 80    | 84    | 89     | 88     | 90     | 9           |
| Canada               | 99    | 106   | 117    | 121    | 126    | 12          |
| European Union       | 2,162 | 2,150 | 2,181  | 2,207  | 2,240  | 2,26        |
| India                | 4,876 | 5,032 | 5,196  | 5,387  | 5,580  | 5,81        |
| Japan                | 75    | 77    | 72     | 72     | 72     | 7           |
| Mexico               | 236   | 249   | 267    | 264    | 246    | 25          |
| New Zealand          | 22    | 24    | 28     | 28     | 29     | 2           |
| Russia               | 376   | 350   | 350    | 357    | 345    | 34          |
| Taiwan               | 22    | 25    | 24     | 24     | 25     | 2           |
| Ukraine              | 116   | 97    | 93     | 82     | 75     | 7           |
| Total Foreign        | 8,244 | 8,372 | 8,602  | 8,836  | 9,039  | 9,32        |
| United States        | 793   | 830   | 849    | 849    | 851    | 87          |
| Total                | 9,037 | 9,202 | 9,451  | 9,685  | 9,890  | 10,19       |

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

| Butter Trade: | <b>Summary For Selected Countries</b> |
|---------------|---------------------------------------|
|               | 1,000 Metric Tons                     |

|                | 1,000 Metric Tons |      |      |      |      |             |
|----------------|-------------------|------|------|------|------|-------------|
|                | 2014              | 2015 | 2016 | 2017 | 2018 | 2019<br>Dec |
|                |                   |      |      |      |      |             |
| Total Imports  |                   |      |      |      |      |             |
| Russia         | 137               | 90   | 103  | 99   | 75   | 7           |
| Australia      | 23                | 22   | 30   | 35   | 40   | 4           |
| Mexico         | 37                | 43   | 65   | 49   | 30   | 3           |
| Taiwan         | 22                | 25   | 24   | 24   | 25   | 2           |
| European Union | 52                | 27   | 23   | 16   | 20   | 1           |
| Japan          | 11                | 16   | 13   | 8    | 13   | 1           |
| Canada         | 11                | 17   | 27   | 22   | 20   | 1           |
| Brazil         | 1                 | 2    | 7    | 5    | 5    |             |
| India          | 1                 | 6    | 6    | 2    | 1    |             |
| New Zealand    | 1                 | 1    | 2    | 1    | 1    |             |
| Ukraine        | 11                | 1    | 1    | 1    | 1    |             |
| Algeria        | 0                 | 0    | 0    | 0    | 0    |             |
| Argentina      | 0                 | 0    | 0    | 1    | 0    |             |
| Belarus        | 1                 | 0    | 0    | 0    | 0    |             |
| Total Foreign  | 308               | 250  | 301  | 263  | 231  | 21          |
| United States  | 21                | 37   | 47   | 41   | 46   | 4           |
| Total          | 329               | 287  | 348  | 304  | 277  | 26          |
| Total Exports  |                   |      |      |      |      |             |
| New Zealand    | 560               | 552  | 554  | 476  | 505  | 51          |
| European Union | 142               | 183  | 213  | 174  | 155  | 16          |
| Belarus        | 55                | 70   | 77   | 72   | 73   | 7           |
| India          | 10                | 9    | 9    | 15   | 30   | 3           |
| Ukraine        | 5                 | 11   | 9    | 28   | 30   | 2           |
| Australia      | 44                | 35   | 30   | 16   | 16   | 1           |
| Argentina      | 14                | 9    | 6    | 4    | 4    |             |
| Mexico         | 8                 | 10   | 15   | 8    | 10   |             |
| Russia         | 4                 | 3    | 4    | 3    | 3    |             |
| Canada         | 2                 | 1    | 1    | 1    | 3    |             |
| Algeria        | 0                 | 0    | 0    | 0    | 0    |             |
| Brazil         | 6                 | 1    | 0    | 0    | 0    |             |
| Japan          | 0                 | 0    | 0    | 0    | 0    |             |
| Taiwan         | 0                 | 0    | 0    | 0    | 0    |             |
| Total Foreign  | 850               | 884  | 918  | 797  | 829  | 84          |
| United States  | 74                | 23   | 27   | 29   | 52   | 4           |
| Total          | 924               | 907  | 945  | 826  | 881  | 885         |

| 1,000 Metric Tons      |       |       |       |       |       |             |
|------------------------|-------|-------|-------|-------|-------|-------------|
|                        | 2014  | 2015  | 2016  | 2017  | 2018  | 2019<br>Dec |
|                        |       |       |       |       |       |             |
| Production             |       |       |       |       |       |             |
| Australia              | 228   | 266   | 238   | 224   | 205   | 200         |
| Brazil                 | 154   | 155   | 153   | 158   | 155   | 158         |
| European Union         | 1,550 | 1,715 | 1,735 | 1,725 | 1,795 | 1,865       |
| India                  | 520   | 540   | 540   | 570   | 600   | 630         |
| New Zealand            | 415   | 410   | 405   | 402   | 390   | 380         |
| Others                 | 610   | 645   | 620   | 613   | 570   | 603         |
| Total Foreign          | 3,477 | 3,731 | 3,691 | 3,692 | 3,715 | 3,836       |
| United States          | 1,047 | 1,029 | 1,049 | 1,073 | 1,050 | 1,049       |
| Total                  | 4,524 | 4,760 | 4,740 | 4,765 | 4,765 | 4,885       |
| Total Dom. Consumption |       |       |       |       |       |             |
| Algeria                | 135   | 136   | 140   | 145   | 175   | 185         |
| China                  | 300   | 244   | 223   | 276   | 275   | 295         |
| European Union         | 887   | 978   | 803   | 984   | 1,125 | 1,142       |
| India                  | 446   | 492   | 531   | 576   | 595   | 615         |
| Mexico                 | 247   | 301   | 325   | 351   | 333   | 345         |
| Others                 | 1,045 | 1,079 | 1,148 | 1,130 | 1,134 | 1,129       |
| Total Foreign          | 3,060 | 3,230 | 3,170 | 3,462 | 3,637 | 3,711       |
| United States          | 457   | 489   | 447   | 425   | 337   | 383         |
| Total                  | 3,517 | 3,719 | 3,617 | 3,887 | 3,974 | 4,094       |

#### Nonfat Dry Milk Production and Consumption: Summary For Selected Countries

#### Nonfat Dry Milk Trade: Summary For Selected Countries 1.000 Metric Tons

|                |       | 1,000 Metric | Tons  |       |       |             |
|----------------|-------|--------------|-------|-------|-------|-------------|
|                | 2014  | 2015         | 2016  | 2017  | 2018  | 2019<br>Dec |
|                |       |              |       |       |       |             |
| otal Imports   |       |              |       |       |       |             |
| Mexico         | 203   | 259          | 286   | 331   | 355   | 375         |
| China          | 253   | 200          | 184   | 247   | 255   | 280         |
| Algeria        | 168   | 136          | 119   | 161   | 185   | 175         |
| Philippines    | 95    | 100          | 185   | 154   | 160   | 165         |
| Indonesia      | 152   | 151          | 173   | 149   | 150   | 15          |
| Russia         | 103   | 120          | 129   | 125   | 88    | 7(          |
| Japan          | 43    | 53           | 34    | 59    | 55    | 5.          |
| Korea, South   | 21    | 21           | 21    | 23    | 27    | 2           |
| Brazil         | 23    | 35           | 35    | 31    | 25    | 20          |
| Taiwan         | 23    | 25           | 23    | 24    | 21    | 23          |
| Australia      | 6     | 10           | 6     | 8     | 10    | 1           |
| Chile          | 5     | 10           | 12    | 15    | 15    | 1           |
| Canada         | 6     | 3            | 4     | 4     | 5     |             |
| European Union | 2     | 3            | 4     | 2     | 3     | :           |
| New Zealand    | 4     | 5            | 3     | 2     | 2     | :           |
| Argentina      | 0     | 0            | 0     | 0     | 0     | (           |
| Belarus        | 3     | 0            | 1     | 0     | 0     |             |
| India          | 1     | 0            | 0     | 1     | 0     |             |
| Ukraine        | 1     | 0            | 0     | 0     | 1     |             |
| Total Foreign  | 1,112 | 1,131        | 1,219 | 1,336 | 1,357 | 1,39        |
| United States  | 3     | 2            | 1     | 1     | 2     |             |
| Total          | 1,115 | 1,133        | 1,220 | 1,337 | 1,359 | 1,39        |
| otal Exports   |       |              |       |       |       |             |
| European Union | 648   | 695          | 580   | 781   | 828   | 82          |
| New Zealand    | 383   | 411          | 444   | 401   | 340   | 38          |
| Australia      | 164   | 201          | 163   | 157   | 155   | 15          |
| Belarus        | 92    | 122          | 111   | 109   | 100   | 9           |
| Canada         | 13    | 14           | 24    | 72    | 65    | 7.          |
| Mexico         | 0     | 0            | 3     | 29    | 65    | 7.          |
| Ukraine        | 28    | 35           | 34    | 29    | 22    | 2           |
| Argentina      | 22    | 24           | 26    | 20    | 15    | 2           |
| India          | 61    | 18           | 19    | 10    | 20    | 2           |
| Chile          | 2     | 1            | 2     | 1     | 2     |             |
| Russia         | 3     | 2            | 1     | 1     | 1     | :           |
| Algeria        | 0     | 0            | 0     | 0     | 0     |             |
| Brazil         | 0     | 0            | 0     | 0     | 0     | (           |
| China          | 2     | 1            | 1     | 1     | 0     |             |
| Indonesia      | 0     | 0            | 0     | 0     | 0     | (           |
| Japan          | 0     | 0            | 0     | 0     | 0     |             |
| Korea, South   | 0     | 0            | 0     | 0     | 0     | (           |
| Philippines    | 5     | 0            | 0     | 0     | 0     | (           |
| Taiwan         | 0     | 0            | 0     | 0     | 0     | (           |
| Total Foreign  | 1,423 | 1,524        | 1,408 | 1,611 | 1,613 | 1,664       |
| United States  | 545   | 558          | 594   | 606   | 729   | 695         |
| Total          | 1,968 | 2,082        | 2,002 | 2,217 | 2,342 | 2,359       |

| 1,000 Metric Tons      |       |       |       |       |       |             |  |
|------------------------|-------|-------|-------|-------|-------|-------------|--|
|                        | 2014  | 2015  | 2016  | 2017  | 2018  | 2019<br>Dec |  |
|                        |       |       |       |       |       |             |  |
| Production             | 250   | 252   | 4.00  | 4 7 0 | 105   | 100         |  |
| Argentina              | 258   | 252   | 180   | 170   | 185   | 198         |  |
| Brazil                 | 612   | 610   | 550   | 596   | 585   | 596         |  |
| China                  | 1,350 | 1,617 | 1,375 | 1,350 | 1,300 | 1,335       |  |
| European Union         | 720   | 710   | 720   | 760   | 730   | 740         |  |
| New Zealand            | 1,460 | 1,380 | 1,320 | 1,380 | 1,420 | 1,400       |  |
| Others                 | 514   | 479   | 436   | 492   | 493   | 503         |  |
| Total Foreign          | 4,914 | 5,048 | 4,581 | 4,748 | 4,713 | 4,772       |  |
| United States          | 47    | 49    | 45    | 56    | 75    | 54          |  |
| Total                  | 4,961 | 5,097 | 4,626 | 4,804 | 4,788 | 4,826       |  |
| Total Dom. Consumption |       |       |       |       |       |             |  |
| Algeria                | 180   | 214   | 222   | 235   | 265   | 275         |  |
| Brazil                 | 603   | 628   | 662   | 664   | 643   | 656         |  |
| China                  | 1,845 | 1,910 | 1,992 | 1,918 | 1,808 | 1,833       |  |
| European Union         | 331   | 313   | 344   | 368   | 391   | 371         |  |
| Indonesia              | 123   | 116   | 122   | 128   | 133   | 135         |  |
| Others                 | 653   | 718   | 572   | 508   | 510   | 516         |  |
| Total Foreign          | 3,735 | 3,899 | 3,914 | 3,821 | 3,750 | 3,786       |  |
| United States          | 28    | 49    | 40    | 50    | 66    | 48          |  |
| Total                  | 3,763 | 3,948 | 3,954 | 3,871 | 3,816 | 3,834       |  |

# Whole Milk Powder Production And Consumption: Summary For Selected Countries

# Whole Milk Powder Trade: Summary For Selected Countries

|                | 1,000 Metric Tons |       |       |       |       |             |
|----------------|-------------------|-------|-------|-------|-------|-------------|
|                | 2014              | 2015  | 2016  | 2017  | 2018  | 2019<br>Dec |
|                |                   |       |       |       |       |             |
| Total Imports  |                   |       |       |       |       |             |
| Afghanistan    | 0                 | 0     | 0     | 0     | 0     | (           |
| Algeria        | 204               | 224   | 224   | 262   | 270   | 280         |
| Argentina      | 0                 | 0     | 0     | 1     | 0     | (           |
| Australia      | 9                 | 11    | 16    | 28    | 30    | 3           |
| Brazil         | 30                | 59    | 126   | 73    | 60    | 6           |
| Chile          | 4                 | 7     | 7     | 12    | 9     | 1           |
| China          | 671               | 347   | 420   | 470   | 460   | 50          |
| European Union | 1                 | 4     | 6     | 2     | 1     |             |
| Indonesia      | 50                | 44    | 52    | 47    | 50    | 5           |
| Mexico         | 7                 | 7     | 12    | 4     | 6     |             |
| New Zealand    | 1                 | 7     | 4     | 4     | 4     |             |
| Philippines    | 20                | 17    | 22    | 20    | 22    | 2           |
| Russia         | 36                | 38    | 48    | 49    | 30    | 2           |
| Taiwan         | 33                | 34    | 30    | 32    | 34    | 34          |
| Venezuela      | 134               | 195   | 58    | 20    | 10    | 1           |
| Others         | 0                 | 0     | 0     | 0     | 0     |             |
| Total Foreign  | 1,200             | 994   | 1,025 | 1,024 | 986   | 1,03        |
| United States  | 7                 | 9     | 15    | 21    | 7     |             |
| Total          | 1,207             | 1,003 | 1,040 | 1,045 | 993   | 1,042       |
| Total Exports  |                   |       |       |       |       |             |
| Afghanistan    | 0                 | 0     | 0     | 0     | 0     |             |
| Algeria        | 0                 | 0     | 0     | 0     | 0     |             |
| Argentina      | 144               | 138   | 110   | 71    | 100   | 13          |
| Australia      | 81                | 65    | 70    | 55    | 60    | 5           |
| Belarus        | 31                | 38    | 29    | 29    | 33    | 3           |
| Brazil         | 39                | 41    | 14    | 5     | 2     |             |
| Chile          | 21                | 6     | 7     | 4     | 4     |             |
| China          | 6                 | 4     | 3     | 2     | 2     | :           |
| European Union | 390               | 401   | 382   | 394   | 340   | 37          |
| Indonesia      | 0                 | 0     | 0     | 0     | 0     |             |
| Mexico         | 6                 | 11    | 20    | 33    | 23    | 2           |
| New Zealand    | 1,423             | 1,380 | 1,344 | 1,342 | 1,300 | 1,37        |
| Philippines    | 8                 | 21    | 27    | 1     | 4     |             |
| Russia         | 1                 | 2     | 1     | 1     | 1     |             |
| Ukraine        | 2                 | 2     | 2     | 4     | 4     |             |
| Others         | 0                 | 0     | 0     | 0     | 0     |             |
| Total Foreign  | 2,152             | 2,109 | 2,009 | 1,941 | 1,873 | 2,019       |
| United States  | 18                | 15    | 19    | 19    | 20    | 12          |
| Total          | 2,170             | 2,124 | 2,028 | 1,960 | 1,893 | 2,03        |