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Abbreviations and Acronyms

This list of abbreviations and acronyms used in the *Agricultural Outlook* is provided for the convenience of our readers. Commonly used abbreviations and acronyms typically are not spelled out in the text.

a	acre	FFV	flex-fuel vehicle
ACRE	Average Crop Revenue Election	FMD	foot-and-mouth disease
AI	avian influenza	FOB	free on board
AWB	Australian Wheat Board	FSRIA	Farm Security and Rural Investment Act of 2002
AWP	adjusted world price	FY	fiscal year
BSE	bovine spongiform encephalopathy	GDP	gross domestic product
bu	bushel	ha	hectare
CAP	Common Agricultural Policy	HFCS	high-fructose corn syrup
CBO	Congressional Budget Office	HPAI	highly pathogenic avian influenza
CCC	Commodity Credit Corporation	kg	kilogram
CCPs	countercyclical payments	LDPs	loan deficiency payments
CIF	cost, insurance, and freight	mha	million hectares
CIS	Commonwealth of Independent States	MILC	Milk Income Loss Contract
CMO	Common Market Organization	mmt	million metric tons
COOL	Country of Original Labeling	mt	metric ton
CPI	Consumer Price Index	MTBE	methyl tertiary butyl ether
CRP	Conservation Reserve Program	NAFTA	North American Free Trade Agreement
cwt	hundredweight	NB	Nebraska
DDG	distillers dried grains	NFD	nonfat dry (milk)
DDGS	distillers dried grains with solubles	NFI	net farm income
DPs	direct payments	OECD	Organization for Economic Cooperation and Development
EISA	Energy Independence and Security Act of 2007	OTMS	Over Thirty Month Scheme
EU	27 member states of the European Union	RINs	renewable identification numbers
EU-15	original 15 member states of the European Union	ROW	Rest-of-World
EU NMS	12 European Union New Member States	SFP	Single Farm Payment (CAP reform)
FAPRI	Food and Agricultural Policy Research Institute	SPS	sanitary and phytosanitary
FCEA	Food, Conservation, and Energy Act of 2008 (2008 farm bill)	tmt	thousand metric tons
FE	Far East	TRQ	tariff rate quota
		USDA	U.S. Department of Agriculture
		WMP	whole milk powder
		WTO	World Trade Organization

Marketing Year Definitions

U.S. Marketing Year Definitions for Specified Commodities

Barley: June 1 to May 31.
Corn for Grain: September 1 to August 31.
Cotton: August 1 to July 31.
Oats: June 1 to May 31.
Peanuts: August 1 to July 31.
Rice: August 1 to July 31.
Sorghum for Grain: September 1 to August 31.
Soybeans: September 1 to August 31.
Sugar: October 1 to September 30.
Sunflower: September 1 to August 31.
Wheat: June 1 to May 31.

Livestock, Dairy complex and international ethanol: years are calendar years.

Government outlays are on a fiscal-year basis (Oct. 1—Sept. 30, with the *second* year being the one used as an identifier—for example, FY 2007 = Oct. 1, 2006—Sept. 30, 2007).

Farm income data are on a calendar-year basis.

International Marketing Year Definitions for Specified Commodities

Grains, rice, oilseeds, and cotton: USDA-FAS PS&D data are used, which are in local marketing years. Local marketing years differ by country and by commodity. The first year listed is the beginning year of a country's local marketing year for that commodity (for example, 1990/91 represents local marketing year starting in 1990 and ending in 1991), except in the case of southern hemisphere countries, which use the second year to denote the beginning of the local marketing year.

Sugar: the year listed is the last year of the countries' local marketing year (for example, 1990 represents 1989/90).

Livestock and Dairy complex: years are calendar years.

Executive Summary

The *FAPRI 2009 U.S. and World Agricultural Outlook* presents projections of world agricultural production, consumption, and trade under average weather patterns, existing farm policy, and policy commitments under current trade agreements and custom unions. The outlook uses a macroeconomic forecast developed by IHS Global Insight.

Recent market turbulence originating in the advanced economies spreads and slows down world economic expansion in 2009 at a rate of -0.7% world gross domestic product (GDP) growth. However, significant recovery is projected the following year, with a long-term real GDP growth rate of 3.5% reached by 2011. After recovery, the emerging markets of China and India still post solid growth, averaging 8.6% and 7.5% per year, respectively. The U.S. dollar makes significant gains in 2009 but resumes its real depreciation over the rest of the decade against the currencies of Australia, the European Union, Japan, New Zealand, and Argentina. Many Asian currencies appreciate in real terms against the U.S. dollar, with China experiencing especially large real appreciations. The energy price also drops in 2009 and recovers in the next two years, reaching a peak of \$86 per barrel in 2013.

Growing demand for biofuels, livestock, and dairy strengthens prices and sustains them at their historic highs across all commodities over the next decade.

In the world ethanol market, the dramatic drop in crude oil prices in 2009 as well as the significant reduction in U.S. ethanol imports results in a 16% decline in the price of ethanol. The ethanol price is projected to fall further in 2010 and 2011 before starting to recover in 2012. The price of ethanol increases over the rest of the projection period as a result of increased demand brought about by the biofuel mandates in the U.S. energy act of 2007. U.S. ethanol imports are expected to come mainly from Brazil, which continues to increase the share of sugarcane production going into ethanol. World net trade increases by 302.5% over the decade, approaching 4.9 billion gallons. Mandates also drive demand for biodiesel in the European Union and the Americas and raise net trade to 769 million gallons as well as pushing the world price to \$5.56 per gallon.

In the outlook for sugar, despite a production shortfall in 2008/09, the world price of sugar declines by 5%, aided by a 10% reduction in stocks. The price increases by 15% over the projection period, as more

sugarcane is used for ethanol in Brazil, and sugar imports of the European Union, China, and India remain strong.

Shortages in many exporting and producing countries and strong import demand drove grain prices to rise sharply in 2007/08. An adequate supply response softened prices in 2008/09. The world wheat price is projected to decrease further in 2009/10, to \$224.9 per mt, because of high carryover stocks. It reaches \$253.4 per mt in 2018/19. The world corn price decreased to \$193.7 per mt in 2008/09 with the lower import demand in world markets. It is projected to decrease further in 2009/10, at \$184.8 per mt, and reach \$201.5 per mt in 2018/19. In the long run, grain prices remain strong because of growing demand for food, feed, and fuel purposes.

World prices of oilseeds and vegetable oil retreat from the historic highs of 2007/08 because of weaker demand. World trade of soybeans, soy meal, and soy oil grows by 33%, 31%, and 37%, respectively, over the next decade. Argentina, Brazil, Paraguay, and the U.S. account for 85% of the 296 mmt of world production in 2018/19. China continues to dominate world soybean imports and expands its net trade to 56 mmt by 2018/19. Palm oil remains the cheapest and most widely traded edible oil.

Sanitary/phytosanitary and food safety concerns stemming from disease outbreaks and from traceability issues continued to affect the world meat market. Sustained income and population growth raises per capita meat consumption and fuels expansion in world trade. Meat trade is projected to increase by 24.3%, reaching 21.1 mmt in 2018. A recovery in demand, coupled with strong grain prices, pushes all meat prices to historically high levels. Brazil and the United States gain significant shares in the world meat market.

World dairy prices are retreating from the record-breaking levels posted in mid-2007. With uncertainty about economic conditions as well as increasing supplies, world dairy prices continue to decline over the next couple of years. In the long run, growth in population and incomes continues to put upward pressure on dairy prices. Australia, New Zealand, and the European Union remain the big exporters. But as excess supply from the European Union stagnates, Argentina and Brazil expand their dairy exports.

Overview of the 2009 U.S. and World Outlook

The Macroeconomic Environment

Macroeconomic projections used in the 2009 FAPRI baseline were obtained from IHS Global Insight. Recent market turbulence originating in the advanced economies spreads and slows down world economic expansion in 2009, producing an average annual rate of real GDP growth of -0.7%. However, significant recovery is projected for the following year, with long-term real GDP growth of 3.5% reached by 2011. The economic downturn is offset somewhat by weaker energy prices, providing some relief for consumer incomes. Downside risk in the outlook centers on how quickly confidence in the financial system is restored.

The U.S., where housing and financial market stress originated, shows the greatest impact, with weak economic growth in 2008 of 1.16% followed by a slowdown to -2.5% in 2009. The slowdown in 2009 spills over into Canada (-1.5%) and Mexico (-2.3%). Even with the widespread slowdown, most of Latin America posts positive growth in 2009 of 1.2%, largely driven by strong domestic demand. Price inflation is expected to be significant in this region, particularly in Argentina and Venezuela.

The short-term outlook for the Asian economies also reflects the impact of the economic slowdown in the advanced economies. Asia posts a weak real growth rate of only 1.2% in 2009. A bright spot in the outlook is that after recovery, China, Vietnam, and India post solid growth. Inflation remains low in most of Asia.

The economic growth convergence between the EU-15 and the EU NMS continues, and all are affected by the slowdown. The EU-15 countries show -1.9% GDP growth, and the EU NMS post a weak growth of 0.6% in 2009. After depreciating in 2009, most EU members experience real currency appreciation against the U.S. dollar.

After a decade-long run of high and sustained growth in the CIS, Russia and Ukraine's growth is arrested, with the slowdown accompanied by declining commodity prices. The ruble in Russia depreciates slightly while the hryvnia in Ukraine strengthens in real terms against the U.S. dollar after 2009. Price inflation is projected to be high in the short run.

Sound policy reforms, rising capital inflows, and prudent fiscal policy sustain a strong outlook in Africa, with GDP growth of 4.8%. Most currencies in the region depreciate relative to the U.S. dollar, and price inflation is moderate.

Weak crude oil prices affect oil-exporting countries in Africa and the Middle East. The Middle East experiences weaker growth performance relative to the last five years. However, diversification initiatives that expanded investments in the non-oil sector dampen the effect of low crude oil prices.

Agricultural and Trade Policy Assumptions

Bioenergy mandates continue to be key drivers in the current outlook. Major energy policies included in the baseline are the U.S. Energy Independence and Security Act (EISA) of 2007, the 2003 Renewable Fuels Directive of the EU, fuel mandates and regulations for Argentina and Brazil, Indonesia's newly implemented biodiesel consumption mandate, and producer incentives in Canada. In addition, new provisions in the Food, Conservation, and Energy Act of 2008—the 2008 farm bill—are included in this baseline. Provisions set to expire under both this farm bill and the EISA are assumed to continue throughout the baseline.

The 2008 world policy environment included the continuing implementation of reforms in the CAP. In particular, the sugar reforms of the EU Common Market Organization were adopted in 2006. The reforms cover a transitional period from 2006/07 to 2009/10. One of the main goals of the reforms is to reduce sugar production by 6 million tons, white value, through voluntary quota reductions and through lower intervention prices. The 6-million-ton reduction in quota sugar is projected to be reached by 2009/10. Beet production over the quota is expected to be used in ethanol production. To meet growing demand both within the European Union and on global markets, the European Commission decided to increase the milk quota by 2% beginning April 1, 2008. In rice, the EU intervention price mechanism is abolished for 2009/10.

The outlook assumes recovery from the SPS shocks and trade restrictions in meat markets associated with BSE in North America, FMD in Latin

America, especially Argentina, AI in Europe and Asia, and blue ear disease in China.

Under the Uruguay Round Agreement on Agriculture, the commitment schedule of developed countries for export subsidy limits, TRQ expansion, import duty reduction, and domestic support reduction are fixed at 2000 levels. Developing countries had their last reform installment implemented in 2004. All of these commitments are held fixed through 2018/19. The 2009 outlook does not include any conjecture on policy changes arising from the Doha Round. In February 2008, Ukraine officially acceded as a full member of the WTO. An extended policy database is available on our Web site and is updated once a year in the spring (www.fapri.iastate.edu/tools/).

The Outlook for U.S. Agriculture

The world financial crisis, the drop in petroleum prices, and a variety of other factors have dramatically changed the outlook for U.S. agriculture. After rising to record levels, prices for grains, oilseeds, and milk all fell sharply in the final months of 2008, resulting in diminished prospects for producer revenue in 2009. Farm production expenses are also expected to decline in 2009, and the rate of consumer food price inflation is expected to slow. After a sharp reduction in 2009, net farm income could begin to recover in 2010 if the global macroeconomy also rebounds.

Crops

A large increase in world grain production and a weaker global economy have resulted in sharply lower U.S. exports of corn and wheat in 2008/09. Lower petroleum prices encouraged slower growth in U.S. ethanol production, and lower livestock and poultry production contributed to a sharp decline in feed use. As demand prospects deteriorated, grain prices fell sharply, with nearby futures for corn and wheat declining by more than half from peak to trough in 2008.

The decline in grain prices had halted by early 2009, but prospects remain very uncertain. Ethanol production expands in response to the EISA biofuel use mandates, and the assumed recovery of the U.S. and world economies also supports grain demand. In response to building stocks and lower prices, U.S. wheat planted area declines in 2009. Corn production growth is limited by continued high production costs

and competition from soybeans. Projected grain prices remain well below the 2008 peak but above pre-2007 levels.

Soybean prices also increased sharply in early 2008 and then declined dramatically in the final months of the year. In contrast to the grains, U.S. soybean stocks are relatively tight in 2008/09, as export demand remains strong. Soybean crush demand is weak because of reduced demand for both soybean meal and soybean oil. Soybean oil prices have declined dramatically from their peak, as export demand has slackened and domestic non-biodiesel demand for soybean oil has contracted. If the global economy recovers, world biodiesel production increases, and supply growth in South America remains moderate, soybean prices may also find support above pre-2007 levels.

The world recession has sharply reduced demand for cotton, resulting in lower U.S. cotton prices, in spite of a dramatic reduction in U.S. cotton production in 2008. Even with a further projected decline in cotton planted area in 2009, it takes time to draw down stocks to levels that allow significant price recovery.

The 2008 farm bill created several new programs, including the Average Crop Revenue Election (ACRE) program. ACRE is a voluntary program that makes payments to producers when state per acre revenues for a particular commodity fall below a trigger tied to a moving average of national prices and state-level yields. ACRE is likely to be attractive to grain and oilseed producers, providing more payments on average than the traditional payments that program participants must agree to forgo.

Livestock, Poultry, and Dairy

Milk prices remained at elevated levels throughout 2007 and in the first months of 2008 because of strong growth in U.S. dairy product exports. Milk production increased in response to those high prices. Even as supplies increased, the global economic slowdown caused U.S. export demand for U.S. dairy products to decline. The resulting collapse in dairy product prices has triggered government purchases under the price support program. Low milk prices result in a decline in cow numbers, and projected milk prices eventually recover to levels that allow milk producers to cover production costs.

The sharp increase in feed costs in 2007 and 2008 lowered the profitability of livestock production, and the result has been slower growth or actual reductions in U.S. meat production. Export demand for beef, pork, and chicken was especially strong in 2008 because of rising incomes, relaxation of trade barriers, and market-specific factors. The combination of smaller supplies and strong foreign demand might have resulted in significant increases in livestock and poultry prices had it not been for the global economic slowdown. U.S. exports of pork and chicken are now expected to decline in 2009, and domestic demand for high-value cuts of beef and other meats is weak. As a result, projected 2009 prices are largely steady (hogs and chicken) or even down slightly (cattle).

If consumer incomes in the United States and other countries again increase beginning in 2010, the resulting increase in meat demand should support livestock and poultry prices. If demand recovers as projected, only a small reduction in meat production will be required to restore profitability to livestock production. If demand recovery is delayed or weaker, it could take a significantly larger supply reduction.

Farm Income and Other Aggregate Indicators

In 2008, high commodity prices led to record levels of crop and livestock cash receipts for U.S. producers. The sharp decline in prices in 2009 leads to a large reduction in crop and livestock receipts. Only a portion of this reduction in receipts is offset by lower production expenses for fuel, fertilizer, and feed. Net farm income declines significantly in 2009 but slowly recovers in later years. In any given year, net farm income is likely to differ significantly from projected levels, as net income is small relative to volatile receipts and expenses.

Government farm program outlays by the CCC remain moderate, as grain and oilseed prices remain above levels that would trigger marketing loan benefits and CCPs. The new ACRE program could result in significant outlays, beginning in FY 2011, but will be very sensitive to market prices and crop yields. For the last several years, crop insurance program costs have been constrained, as generally favorable weather has limited indemnities. With crop prices, crop insurance premiums, and premium subsidies all well above pre-2007 levels, crop insurance outlays

could increase sharply if less favorable weather results in greater indemnities.

Consumer food prices rose by 4.0% in 2007 and by 5.5% in 2008, the highest rates of food price inflation in many years. Lower farm commodity and energy prices result in a sharp reduction in the rate of consumer food price inflation in 2009. In later years, projected food price inflation remains moderate, but actual food prices will continue to be sensitive to changes in farm commodity prices, petroleum prices, and other processing and distribution costs.

Alternative Baseline Projections

The figures reported in this publication are based on a single set of assumptions about the weather, the economy, and other factors that affect commodity supply and demand. FAPRI also has developed a stochastic baseline of U.S. agricultural and biofuel markets that estimates market outcomes under a wider range of assumptions. In essence, FAPRI develops 500 related baselines that share some assumptions, such as a continuation of current government policies, but that differ in their assumptions about crop yields, production costs, petroleum prices, export demand conditions, and other factors.

Results of the stochastic baseline analysis are summarized in the *U.S. Baseline Briefing Book* available at www.fapri.missouri.edu. That publication provides average results from the 500 related baselines. For most variables, those average results from the stochastic analysis are very similar to the estimates reported in this publication. There are exceptions to this general rule, however. Assumed rates of participation in the ACRE program in 2009/10 were reduced in the stochastic analysis (60% for corn, soybeans, and wheat rather than the 70% reported here), in part based on what was learned from the stochastic analysis. In the case of farm program outlays and biofuel market outcomes, averages from the stochastic analysis sometimes differ from the figures presented here because of underlying asymmetries in the policies analyzed.

The Outlook for World Agriculture

The widespread economic slowdown in 2009 weakens demand for agricultural commodities and, coupled with the high carryover supply from the last two years of high prices, causes a general retreat

in prices for all commodities in 2009/10. However, continuing world population growth, recovery in income growth, and expanded bioenergy mandates drive prices back well above pre-2007 levels, but below recent peaks.

Grains

World grain prices are lower in 2008/09 because of the higher supply in world markets. They are projected to decrease further in 2009/10, with the largest decline seen in the wheat price, followed by the barley price. Grain prices remain strong over the next 10 years because of growing demand for food, feed, and fuel purposes.

Total grain area increases by 1.4% over the decade and reaches 483.5 mha in 2018/19. Corn area increases the most, especially in the U.S. and in Asian countries, followed by barley area and sorghum area. Wheat area is projected to decline slightly over the baseline period.

Total world grain consumption increases by 199.3 mmt over the decade, with most of the demand increase occurring for corn. Population growth boosts world wheat demand for food purposes by 60.4 mmt over the projection period, with the demand increase mainly coming from Asian, African, and Middle Eastern countries. Corn feed use increases over the next decade by 55.9 mmt because of growth in the livestock sector. Food and industrial use of corn also grows, by 68.2 mmt, over the same period, with both population growth and the expansion of the ethanol sector contributing to this increase. Barley consumption increases by 10 mmt over the projection period, with gains in both feed and non-feed use. Sorghum feed use declines, whereas non-feed use increases, with total consumption increasing by 4.8 mmt by 2018/19.

World wheat net trade increases to 99.4 mmt in 2009/10 because of the higher supply, which lowers the world wheat price. Wheat net trade grows 1.8% annually on average, reaching 118.6 mmt in 2018/19. The U.S. market share decreases to 24.5% in 2008/09 with the recovery of production in other exporting countries. It decreases to 22.4% by the end of the projection period. The EU increases its wheat market share in 2008/09 because of higher production. Its market share decreases in 2009/10 with the decline

in exports. Argentina is projected to recover its market share in 2009/10 with an upturn in production. Canada's share of the wheat market decreases over the next 10 years, as domestic consumption increases and domestic production declines. Australia's market share increases in 2009/10 and onward since production grows more than domestic consumption.

Wheat net imports of Asian countries increase by 5 mmt over the next 10 years, owing to the increase in food use that comes from population growth. African and Middle Eastern countries increase their wheat net imports by 10.6 mmt over the decade. Latin American countries' wheat net imports reach only 10.4 mmt in 2018/19 because of production growth.

World coarse grain net trade is projected to grow at an average annual rate of 2.3%, reaching 117.3 mmt in 2018/19. Corn net trade increases the most, by 22.9 mmt, followed by barley. Although, the U.S. share of the coarse grain market drops to 50.7% in 2008/09, the U.S. increases its market share over the next 10 years because of growth in production. The U.S. share reaches 55.3% in 2018/19. Argentina's share of the coarse grain market is projected to increase in 2009/10 and onward because of higher corn net exports. Ukraine recaptures its market share in 2008/09 with an increase in production and net exports of barley and corn. Brazil's share of the coarse grains market declines as consumption grows faster than production. Australia's market share stays stable over the decade.

In 2009/10, world corn net trade increases since consumption growth outpaces production growth. Over the next 10 years, world corn net trade is projected to increase, reaching 92.6 mmt in 2018/19, because of demand growth in major importing regions such as Asia, Africa, and the Middle East. The U.S. share of the corn market decreases in 2008/09 to 63.3% with lower U.S. exports. It reaches 65.7% in 2018/19. Growth in area and yields raises Argentina's share of the corn market to 17.1% by 2018/19. Brazil's market share decreases to 6.4% by 2018/19 as domestic consumption growth exceeds production growth. South Africa's market share reaches 3.1% in 2018/19.

The largest import demand increase for corn comes from Asian countries because of growth in their livestock industry. Asian net imports increase by 6.6

mmt over the decade. African net imports increase by 5.2 mmt in the same period. Among Latin American countries, Mexico maintains its role as a major corn importer. Middle Eastern corn net imports reach 10.3 mmt in 2018/19.

U.S. DDG exports increase more than 46% over the next 10 years, reaching 6.6 mmt in 2018/19. Mexican DDG imports reach 1.7 mmt in 2018/19, and Canadian imports reach 1.2 mmt. Asian imports of DDG are also growing as a replacement for corn. Destinations include Indonesia, Japan, the Philippines, South Korea, and Taiwan.

World sorghum net trade grows slightly over the projection period, reaching 4.8 mmt by 2018/19, with growth in demand. Japanese net imports reach 1.4 mmt in 2018/19, whereas Mexican net imports reach 2.3 mmt by 2018/19. The U.S. market share of sorghum increases in 2009/10 to 84.3% and stays relatively stable at that level for the rest of the projection period.

World barley net trade reaches 19.9 mmt in 2018/19, fueled by growth in Asian demand. The EU slightly decreases its barley net exports in 2009/10 because of lower production and higher domestic consumption. EU net exports of barley reach 6.1 mmt in 2018/19. Australian net exports increase in 2009/10 and reach 3.9 mmt by 2018/19. Canadian net exports total 2 mmt in 2018/19. Ukrainian and Russian net exports of barley reach only 4.8 mmt and 1.8 mmt, respectively, by 2018/19.

Rice

High international rice prices persisted in 2008/09 as major rice exporting countries continued to implement export restrictions and stock controls to slow increases in domestic prices. This prompted some major rice importing nations to tender larger-than-normal import bids and relax import restrictions. Rice export prices are expected to weaken in the short run as more exportable supplies become available. They then increase steadily over the baseline, driven by strong consumption and trade, reaching \$526 per mt by 2018/19. Population-driven consumption growth keeps the rice stocks-to-use ratio between 15% and 21% over the baseline.

World rice area in 2008/09 increased by 1.5 mha from last year's level. Area gains in Bangladesh, China, India, Nigeria, Pakistan, Thailand, and the U.S.

more than offset declines in the Middle East, South Korea, Myanmar, and Vietnam. Over the baseline, world rice area declines marginally but the average yield grows by 0.8% per year.

While total global rice use increases steadily, at 1.3% annually, because of population growth, average per capita consumption continues to decline slightly, driven by urbanization, income growth, aging populations, and diet diversification in a number of Asian countries.

Over the next decade, global total rice trade is projected to grow by 2.1% annually, reaching 36.3 mmt in 2018/19. Despite this growth, rice remains thinly traded in the international market relative to other grains, with the share of total trade to total consumption at 7.6% in 2018/19. Thailand, Vietnam, and India account for 91.4% of the volume growth in world rice exports. These three countries experience declines in rice per capita consumption, which allows yield-based growth in production to outpace domestic consumption. Other significant net rice exporters include Pakistan, China, Uruguay, Argentina, and Egypt. In the U.S., growth in domestic use outpaces that of production, causing U.S. rice exports to decline over the same period.

With strong growth in population and per capita rice consumption, rice imports in Africa and the Middle East continue to increase substantially, accounting for 42.1% of the total volume growth in world rice imports over the next decade. With relatively slow progress in its rice self-sufficiency efforts, the Philippines is projected to be the top rice net importer over the same period. Other major rice net importers are Indonesia, Bangladesh, Brazil, the EU, Mexico, Turkey, and Malaysia.

Oilseeds

World oilseed prices decline sharply in 2008/09 from the record highs of 2007/08 because of weaker world demand. Reduced demand growth in the short term leads to another price reduction in 2009/10. However, prices recover in the later years, led by strong growth in vegetable oil demand for food and industrial uses. Despite area expansions and yield improvements, oilseed prices are not expected to return to their historical levels for the remainder of the projection period.

World oilseed area increased by 7% in 2008/09 because of milder competition from coarse grains. Area growth slows by next season because of lower prices but recovers later on, reaching 204 mha at the end of the outlook period. Soybean area expansion in South America accounts for 42% of the total oilseed area growth. Palm kernel area expands 20% while rapeseed area grows 8% over the next decade as Ukraine and the EU expand the harvest area for the EU's biodiesel industry. The expansion of oilseed area is driven by increased worldwide demand for protein meals and vegetable oils.

World soybean area rebounded and increased production by 8% in 2008/09, led by 16% growth in U.S. acreage. However, yield losses in the main producing countries dampened the production rebound to 5%. World production continues to respond to the high prices and reaches 296 mmt by the end of the outlook period. Argentina, Brazil, and the U.S. again dominate world soybean production.

Declining crop area resulting from falling real domestic prices and expanding urban uses leads to almost stagnant soybean production in China. Meanwhile, robust economic growth encourages a 42% increase in domestic consumption over the baseline period. Policies favoring oilseed imports and domestic crush make China the world's leading soybean importer. China expands its imports to 56 mmt, accounting for 59% of total world imports over the next 10 years. The EU's net import share continues to decrease during the outlook period, as it imports processed products rather than beans. Brazil surpasses the U.S. to become the largest soybean net exporter in 2014/15, and the difference increases by the end of the period. Brazil's export share reaches 44% by the end of the decade while the U.S. share of world soybean net exports is projected to decline to 32% by 2018/19. World rapeseed net trade increases 21% over the outlook period, primarily driven by biodiesel demand in the EU. Canada remains the leading net exporter, although its share of world net exports declines from 61% to 57% over the decade. Ukraine is the emerging net exporter, accounting for 28% of world net exports by 2018/19.

Driven by expansion in the world livestock sector, oilseed meal consumption reaches 270 mmt by

the end of the projection period. Around 81% of this increase is from growth in soybean meal consumption. China increases its consumption by 4.2% annually because of strong expansion in its livestock sector. U.S. domestic consumption expands by 17% over the decade whereas the U.S. share of world consumption falls slightly. Soybean meal also accounts for the majority of the growth in oilseed meal trade. The volume of net trade in the soybean meal market increases by 31% throughout the baseline. Argentina, the leading soybean meal net exporter, ships 98% of its production to the world market because of its differential export tax. Argentina exports 36 mmt by 2018/19 and its market share grows to 52%. The EU remains the top net importer, accounting for 37% of world net imports.

Increasing incomes and population in developing countries, combined with emerging biodiesel industries in various countries, stimulate an additional 37 mmt of world vegetable oil consumption by 2018/19. World vegetable oil consumption per capita is expected to increase to 20 kg over the baseline. World palm oil consumption increases by 37% while soybean oil consumption grows by 33% over the next 10 years. Rapeseed oil consumption reaches 24 mmt during the baseline because of biodiesel production in the EU. China's soybean oil food consumption per capita reaches 11.4 kg and its soybean oil net imports increase 80% by 2018/19. Despite its domestic biodiesel mandate, Argentina still dominates world soybean oil exports, holding a 61% share of the world market. Palm oil remains the most traded vegetable oil in the world over the decade. Chinese palm oil net imports expand to 9.1 mmt by 2018/19, accounting for about 22% of world net imports. Indonesia, the dominant palm oil exporter, increases its palm oil net exports to 22 mmt as the world price recovers over the next 10 years.

Cotton

World macroeconomic conditions, along with strong demand for competing crops to be used in the production of biofuels, have weighted heavily on world cotton markets. Acreage competition has shifted cotton area in the world, and notable declines have been seen in the United States. At the same time, improving yields have helped to maintain supplies. The downturn in the world economy has trimmed

world demand for the first time in a number of years, and cotton prices have retreated to lower levels. This combination of factors remains uncertain, making the future of cotton markets uncertain. It is more clear, however, that the United States cotton market is likely to be smaller in the future.

Recent growth in world cotton production was driven by strong yields and above-average cotton acreage. Higher prices for grains and oilseeds, due to biofuels production, have constrained acreage growth in many locations and continue to provide acreage competition over the projection period. This acreage competition and weak prices from slack demand reduce U.S. cotton planted acreage to 3.1 mha in 2008/09 and hold area at this level in future years even as the world economy improves. Other regions, with fewer alternative crops or a comparative advantage in cotton production, are likely to hold on to more of their cotton acreage to take advantage of improving prices.

Prices, as measured by the Cotlook Far East A-Index, are expected to fall to \$1,345 per mt in 2008/09 as demand softens. Prices grow in the following years, as supply constraints, through competition for acreage from grains and oilseeds, contribute to an improved outlook for prices. World cotton consumption is expected to fall to 24.8 mmt in 2008/09 under difficult world macroeconomic conditions and to return to growth under the assumption of a return to GDP growth in 2009/10. Growth in mill use is just above population growth, reaching 30.0 mmt by 2018/19. World cotton spinning continues to concentrate in a small number of countries. China, India, Pakistan, and Turkey account for 72% of world mill use in 2008/09 and expand to 77% of world mill use by 2018/19. Developed countries are likely to see continued declines in their consumption of raw cotton. The United States must increasingly rely on export markets for the majority of demand.

Sugar

The world sugar market experiences a deficit in 2008/09 with a decline in production and stocks and an increase in consumption. Although several countries face a decrease in production, the largest shortfall, 5.7 mmt, is seen in India. Brazil maintains its record sugarcane production in 2008/09, with 59.5%

of the sugarcane going to ethanol production because of growing domestic ethanol demand and falling domestic sugar prices. Production in the EU continues to decline as the restructuring period of the CMO sugar reforms approaches its final year in 2009/10. The EU emerges as a major sugar importer because of the reforms. World sugar production is projected to increase by almost 23% as both harvested area and yields increase, especially in the major sugarcane-producing countries.

Because of the relatively inelastic response to income, the economic slowdown has not had a significant effect on world sugar consumption. In fact, consumption increases by 3.2% in 2008/09. And with sustained growth in real GDP and population, particularly in developing countries, sugar consumption increases by 20% over the projection period. As a result of the decline in world production and the growth in consumption, world net trade declines by 11% in 2008/09, with the drop in sugar exports from India only partially offset by increased exports from Brazil, Australia, and Thailand. By 2018/19, world net trade is projected to increase by 38%.

In addition to market fundamentals, the world sugar price was impacted by macro-economic conditions in 2007/08. The sugar price was volatile and saw a large increase in 2008 because of the depreciation of the U.S. dollar, high energy prices, and speculation. As energy prices fell and the value of the U.S. dollar rose, the sugar price began to decline, averaging 13¢ per pound in 2008/09. The price increases by 15% over the projection period because of increased demand for sugar from the EU and several Asian countries, including China, India, and Pakistan.

In terms of market shares, only a handful of sugar-exporting countries account for over 90% of world trade, with Brazil, which accounts for almost 60%, continuing to maintain the largest share throughout the projection period. On the import side, Russia currently accounts for 8.5% of world net trade. However, this share declines to 5% by 2018/19 as Russia's sugar production continues to expand. Asia, as a region, constitutes the largest importing block, with China, Indonesia, Japan, Malaysia, and South Korea together accounting for about 19% of world trade over the projection period.

Ethanol and Biodiesel

Despite declining crude oil prices, there is still sustained interest in biofuels as an alternative fuel source. Many countries are continuing to promote ethanol use through mandates and/or directives. In the world ethanol market, the major players remain Brazil and the United States. The United States is the largest producer of ethanol, followed by Brazil. Brazil, however, is the largest exporter. The EU is also emerging as a significant player.

The world ethanol price increased in 2008 as crude oil prices peaked and U.S. net imports increased. With the significant decline in both crude oil prices and U.S. net imports in 2009, the world ethanol price declines by 16%. The price recovers over the projection period, increasing as world demand for ethanol grows, especially in the United States as a result of the EISA 2007 biofuel mandates.

Brazilian production of ethanol increases steadily over the projection period, inducing a rising share of sugarcane going into ethanol production.

Biodiesel is another renewable energy source adopted in a growing number of countries. The world price of biodiesel (Central Europe FOB) decreases to \$3.74 per gallon in 2009, driven by lower petroleum and vegetable oil prices. Recovery of the crude oil price and implementation of mandates in Argentina and Brazil lead to price increases through the remainder of the period. The world biodiesel price increases to \$5.56 per gallon by 2018, driven in part by higher demand from the EU. World net trade remains relatively stable at around 800 million gallons over the next decade, as domestic consumption mandates are implemented in many producing countries.

Livestock and Poultry

SPS and food safety concerns stemming from BSE, HPAI, FMD, and blue ear disease in China and from traceability issues continued to impact the world meat market. Average per capita meat consumption increases by 5.6 kg over the next decade, representing a 1.0% annual increase. Meat consumption reaches 57.8 kg per person per year by 2018. Pork consumption has the highest share in the consumption basket, growing the fastest among the three meats at 1.1% annually.

Continuously recovering from the negative influence of BSE, meat demand increases world meat

trade by 24.3% (4.12 mmt) over the next decade, with net trade reaching 21.05 mmt in 2018. Rising meat demand fuels an 18.0% (38.62 mmt) increase in world meat production over the baseline, with production reaching 253.20 mmt in 2018.

The SPS market shock, high feed prices, and growing demand pushed meat prices up to record levels. Average prices over the projection period are higher relative to the recent period. The beef price declines by 2.9% in 2009 and then increases, but it reverses beginning in 2015, reaching \$102.8/cwt in 2018. The pork price cycles throughout the decade. It peaks again in 2012 at \$56.3/cwt and ends at \$56.2/cwt. After a 3.7% increase in 2007, the poultry price rises at an average rate of 1.5%, reaching \$90.7/cwt in 2018.

Beef

World beef trade recovers and is projected to continue to grow by an average rate of 2.0% throughout the decade, ending at 7.0 mmt in 2018. Responding to the recovery in trade and the growth of the world price, beef production increases at an annual rate of 1.1% (6.0 mmt) in the next decade, reaching 60.7 mmt in 2018.

A few factors affect world beef trade. First is the recovery of demand from BSE concerns. U.S. beef exports to Japan are still age-verified. High world prices constrain recovery in the short run. Further demand recovery drives growth in the longer run. Second, faster consumption growth fuels rising imports in several developing countries, such as Egypt, the Philippines, and Mexico. Third, China and the European Union have experienced increasing demand and have changed from beef exporters to beef importers.

Pork

Benefiting from trade shocks from BSE and AI, pork trade grows by 3.5% (1.68 mmt) annually in the next decade, reaching 5.70 mmt in 2018. Pork production increases at a rate of 1.9% (17.75 mmt), reaching 112.95 mmt in 2018.

Poultry

Broiler trade continues to grow at a rate of 3.1% annually over the projection period. Total broiler trade increases by 1.48 mmt, reaching 8.34 mmt in 2018. Total broiler production increases by 2.1% (14.1 mmt), reaching 79.53 mmt in 2018. The poultry price

increased in the past two years, by 18.7% in 2007 and 4.3% in 2008.

Dairy

Over the next decade, milk production grows in most countries. World milk production increases 18.8%, with most of the growth generated by gains in productivity per cow. Of the 98.1 mmt increase in milk production, 31% occurs in the Americas, primarily in the U.S. and Brazil, and 47% occurs in Asia, mainly in China and India. Higher milk production facilitates increases in dairy production. World total butter production increases 29.3% over the baseline, with India accounting for over 90% of the growth. Total cheese production grows 18.2%, with the U.S. and the EU accounting for more than half. NFD production rises 22.1%, with the greatest gains occurring in India, which comprises roughly 30% of the growth. With the exception of the EU, WMP production grows in most countries, increasing a total of 21.2%.

Dairy prices reached record-breaking levels at the end of 2007 and then declined through 2008. Because of unfavorable economic conditions and production growth in many countries, world dairy prices decrease in the midterm. Economic growth and population growth support higher dairy demand, which, along with high feed costs, puts upward pressure on dairy prices in the long run.

Because of the worldwide economic downturn, trade in dairy products declines over the next couple of years, although trade expands substantially in the long run. New Zealand, the EU, and Australia remain the world's largest butter exporters, supplying 90% of total butter trade at the end of the baseline. As New Zealand

and Australian butter exports rise, EU net exports languish.

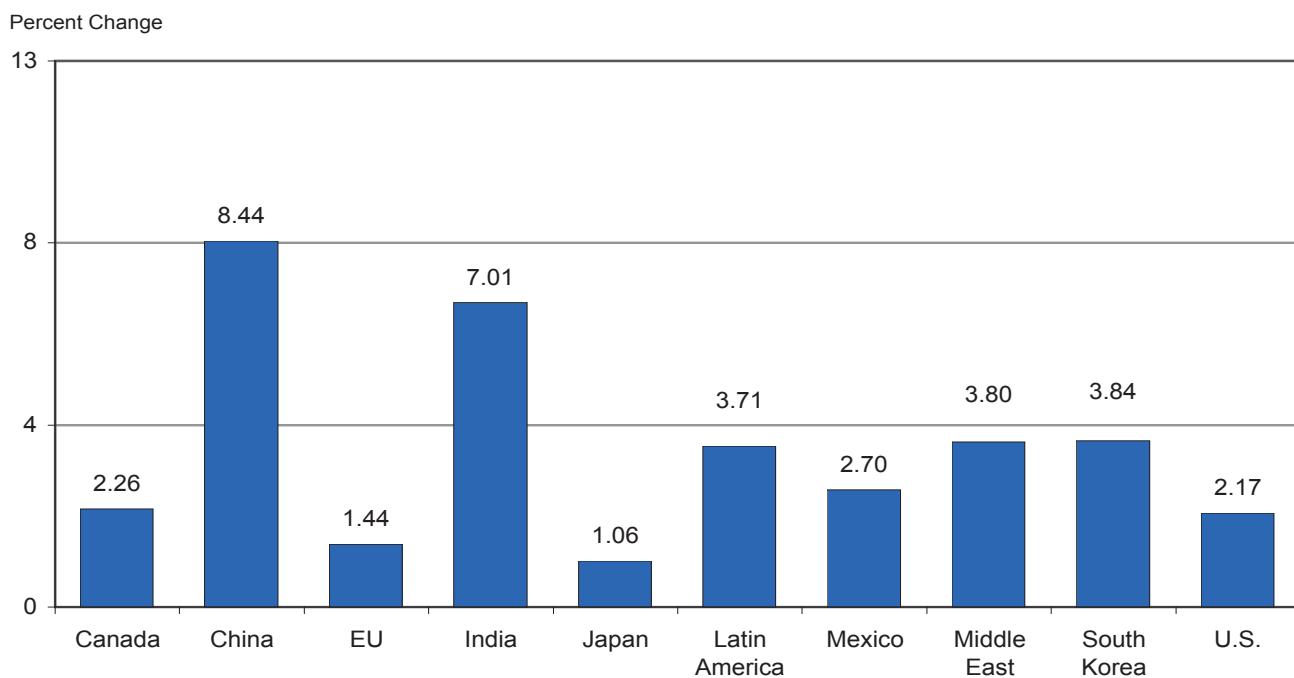
Strong demand drives a 24.8% increase in world cheese trade over the decade. EU cheese exports decline because of strong domestic demand. Australia and New Zealand's combined cheese market share increases by 6.6% and reaches 49.2% at the end of the baseline. Argentina and Ukraine become increasingly important players in international cheese markets, together accounting for 9.1% of total exports by 2018. Russia and Japan are the leading importers and account for 42.9% of total world imports on average. Sustained by economic and population growth, cheese imports of other Asian countries (China, Indonesia, Malaysia, Philippines, South Korea, Thailand, and Vietnam) increase by 2.6% annually

Australia, New Zealand, the EU, and the U.S. captured about 88.3% of the NFD export market in 2008. Their combined market share stays at around 82% over the baseline, as there is a slight increase in NFD exports from other countries, including Argentina and Brazil. Asian countries, Algeria, and Mexico are major importers and increase their NFD imports over the projection period.

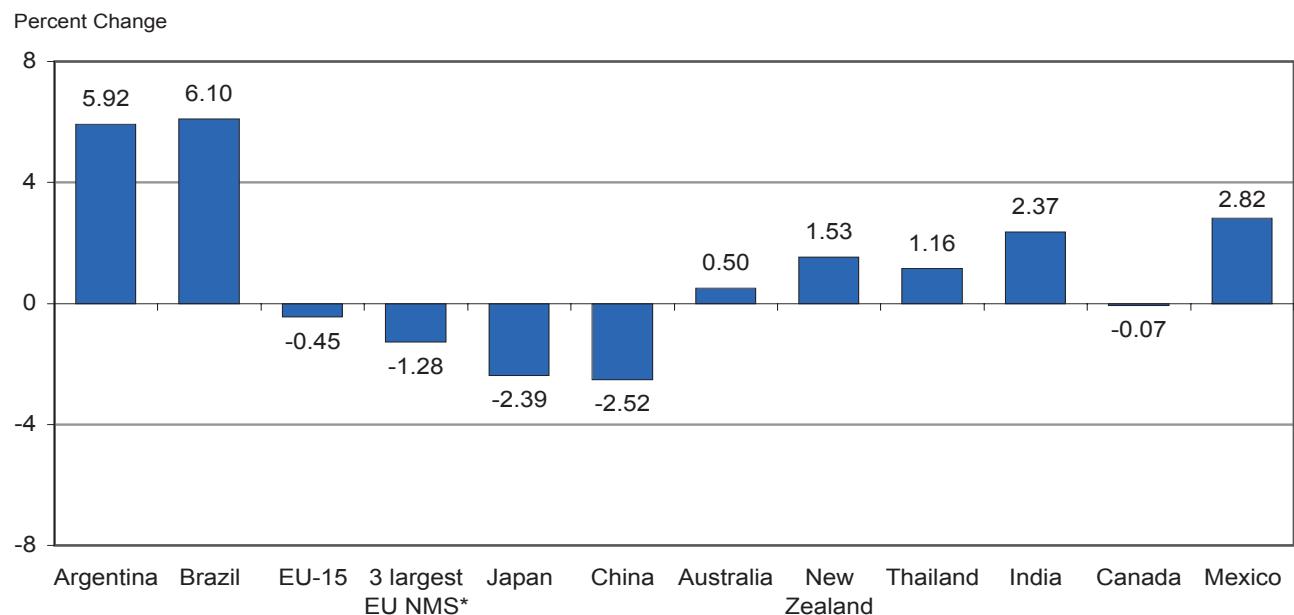
WMP trade grows 23.4% over the baseline. While EU WMP exports decrease by 14.3%, Australia, New Zealand, and Argentina expand their exports, respectively, by 77.7%, 14.2%, and 46.8%. These three countries account for over 60% of total WMP exports by the end of baseline. Major importers Algeria, Saudi Arabia, and Malaysia steadily expand their WMP imports, accounting for over a quarter of world WMP imports.

CHARTS AND PRICE PROJECTIONS

Average Annual GDP Growth, 2008-2018

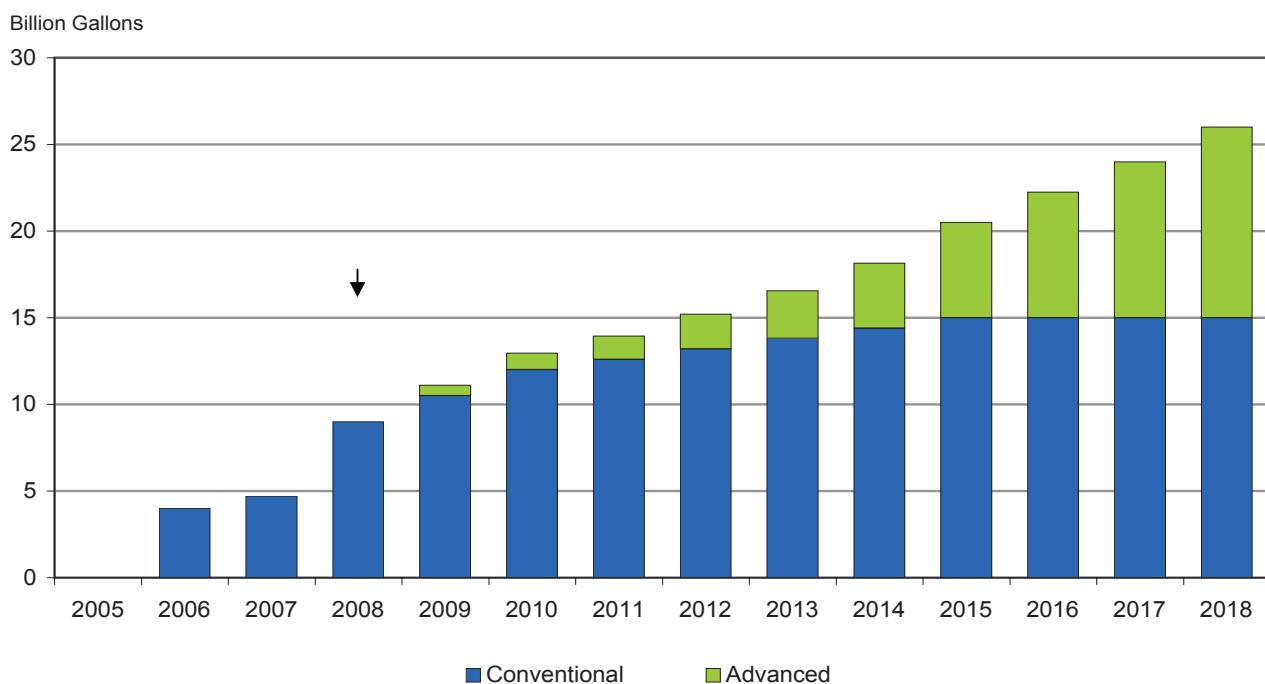


Average Annual Exchange Rate Growth, 2008-2018 (local currency per U.S. dollar)

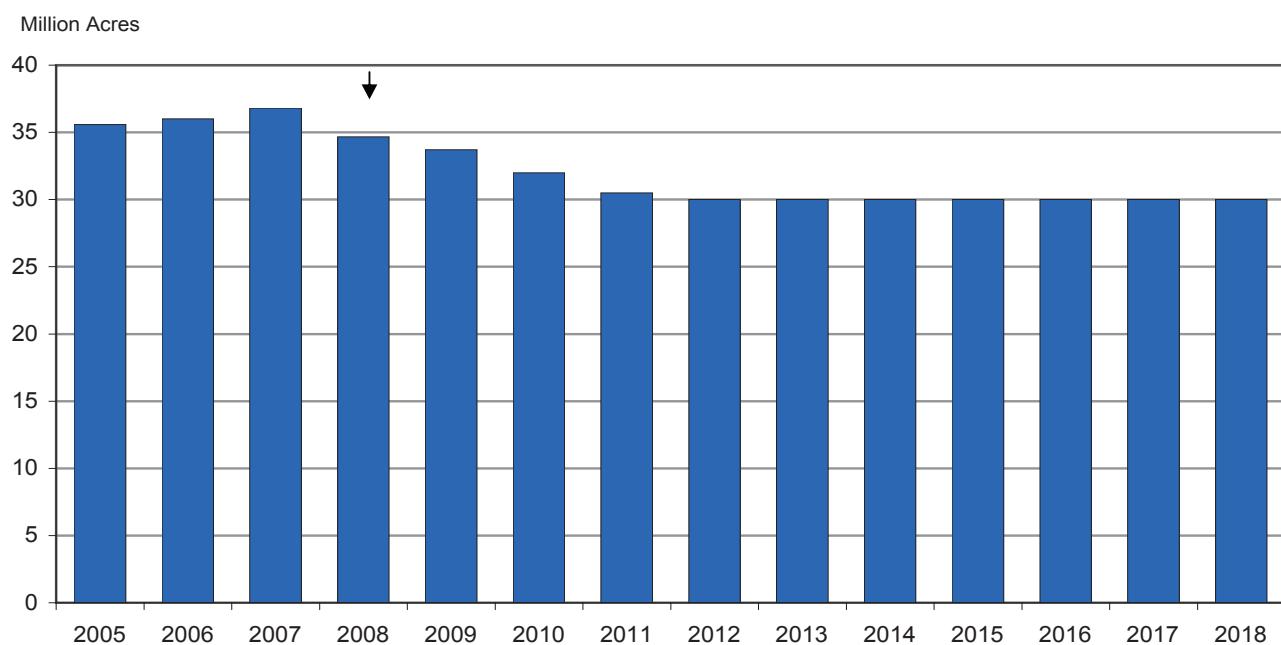


* Hungary, Czech Republic, and Poland.

U.S. Biofuel Use Mandates

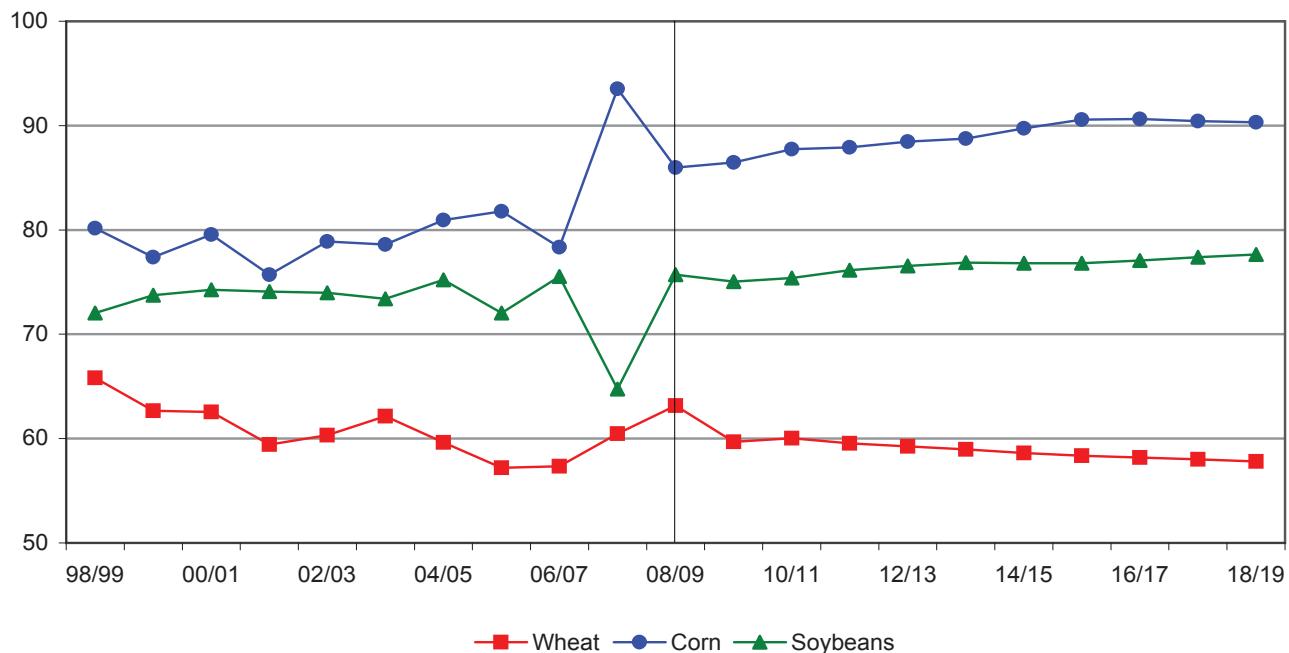


U.S. Conservation Reserve Program Area



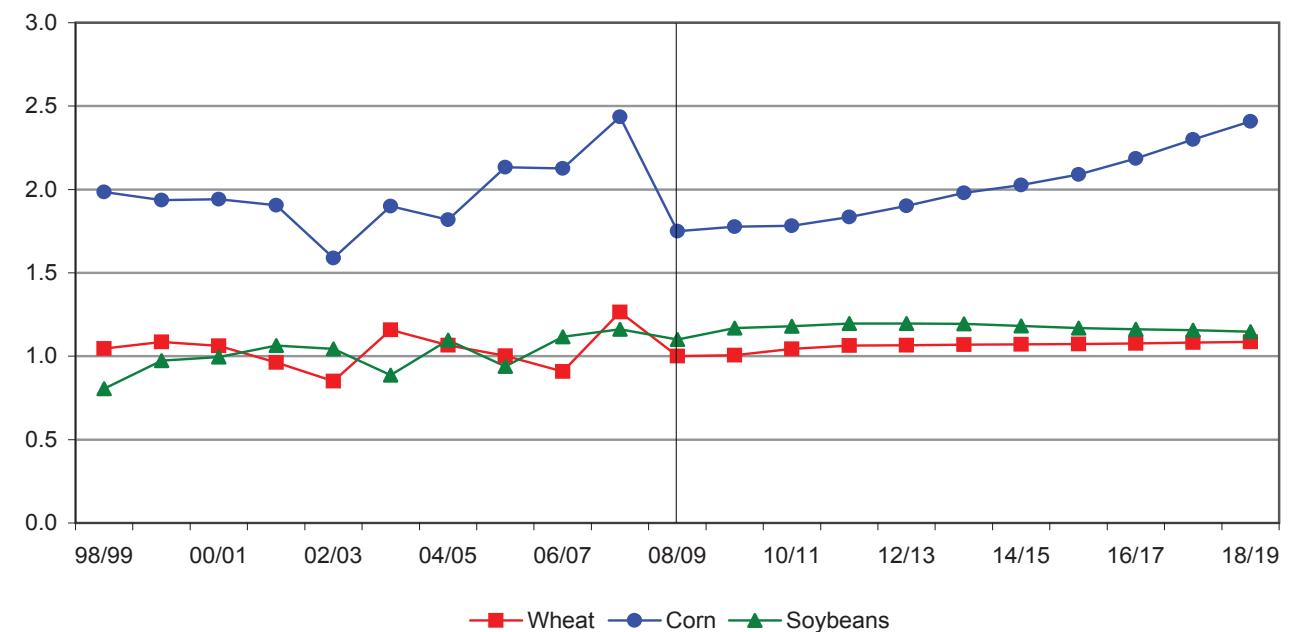
U.S. Crop Planted Area

Million Acres



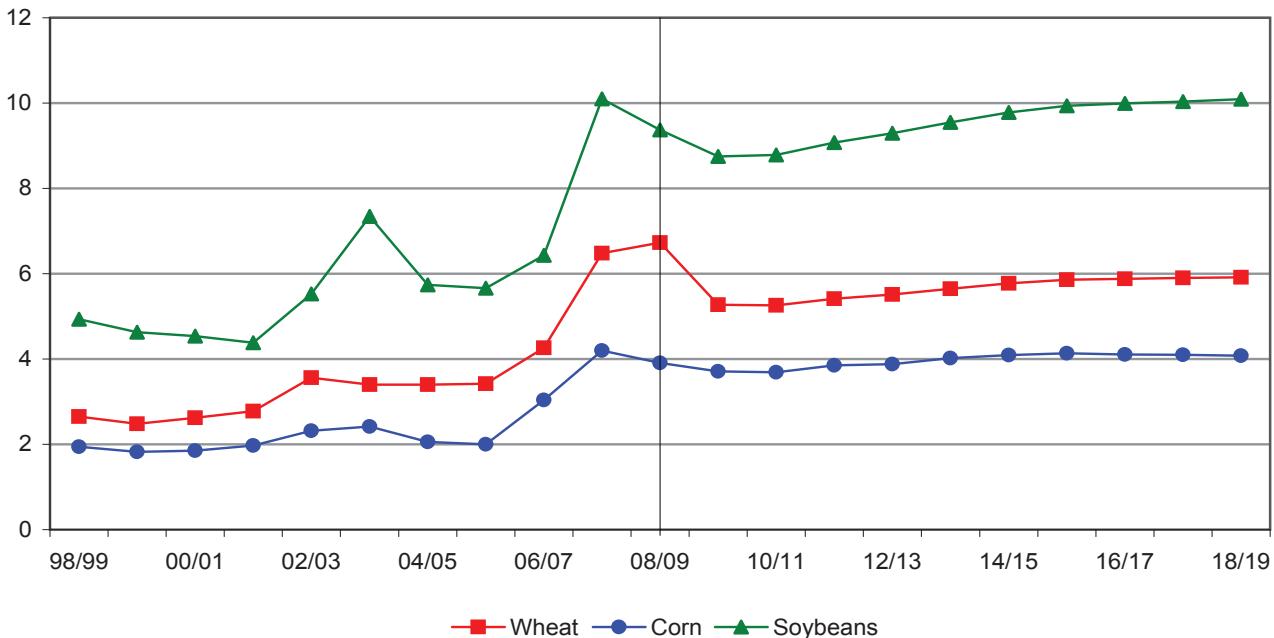
U.S. Crop Exports

Billion Bushels



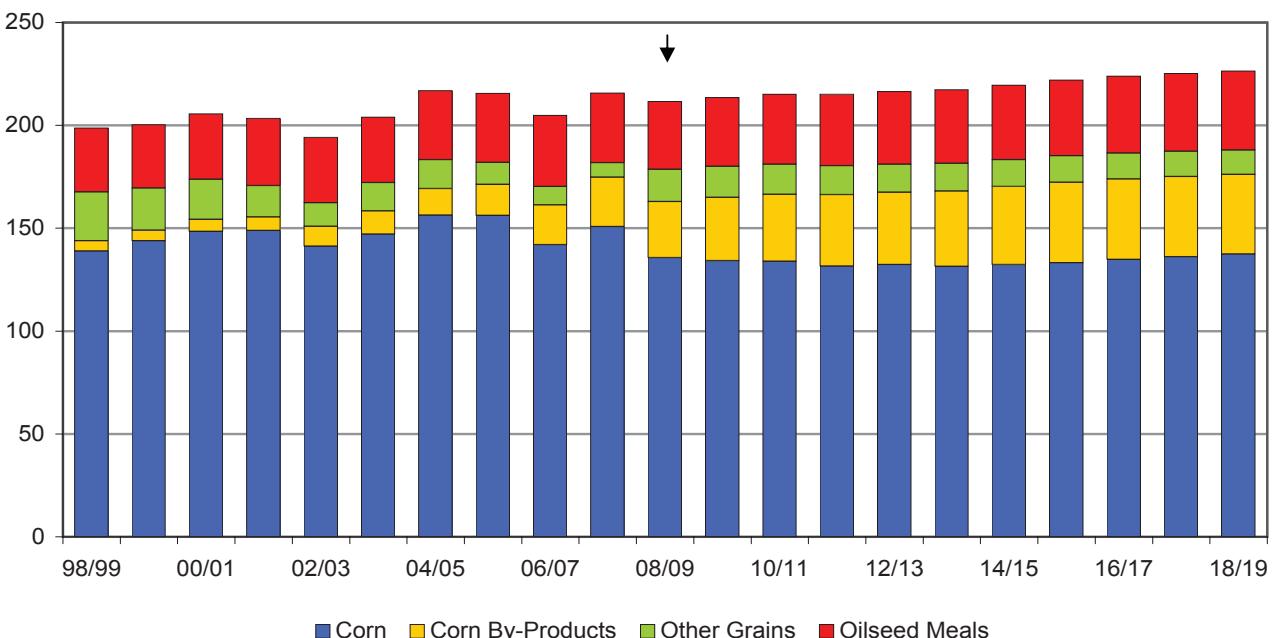
U.S. Crop Prices

Dollars per Bushel

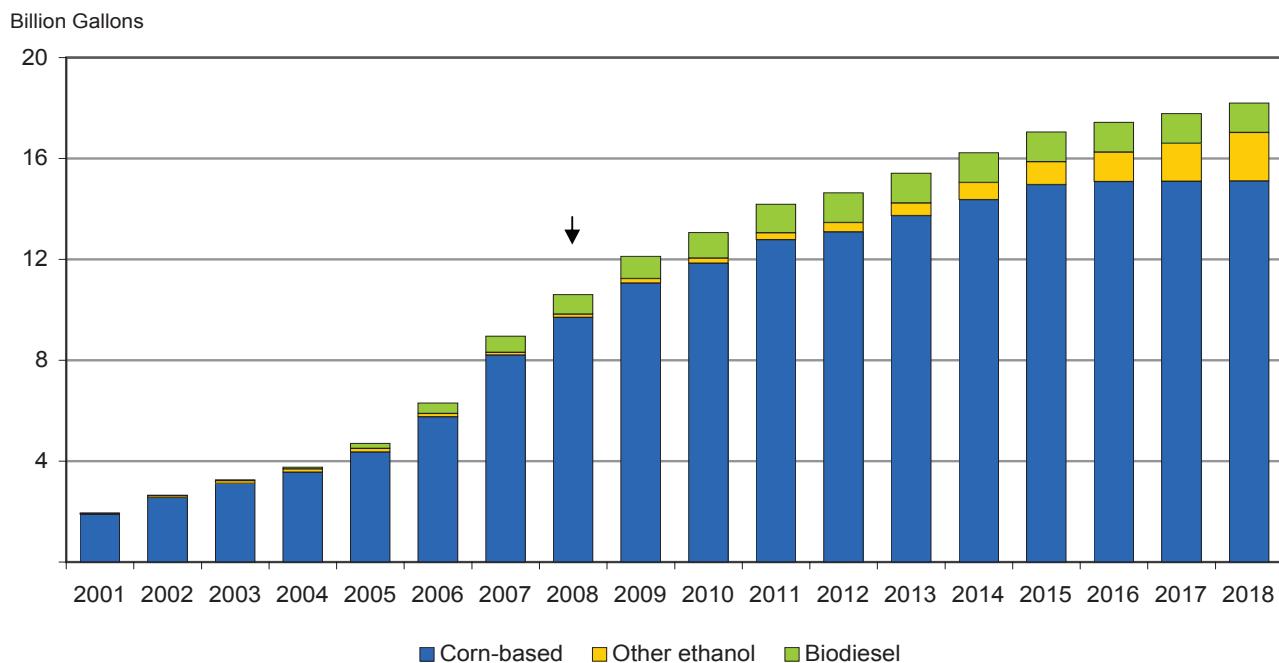


U.S. Feed and Residual Disappearance

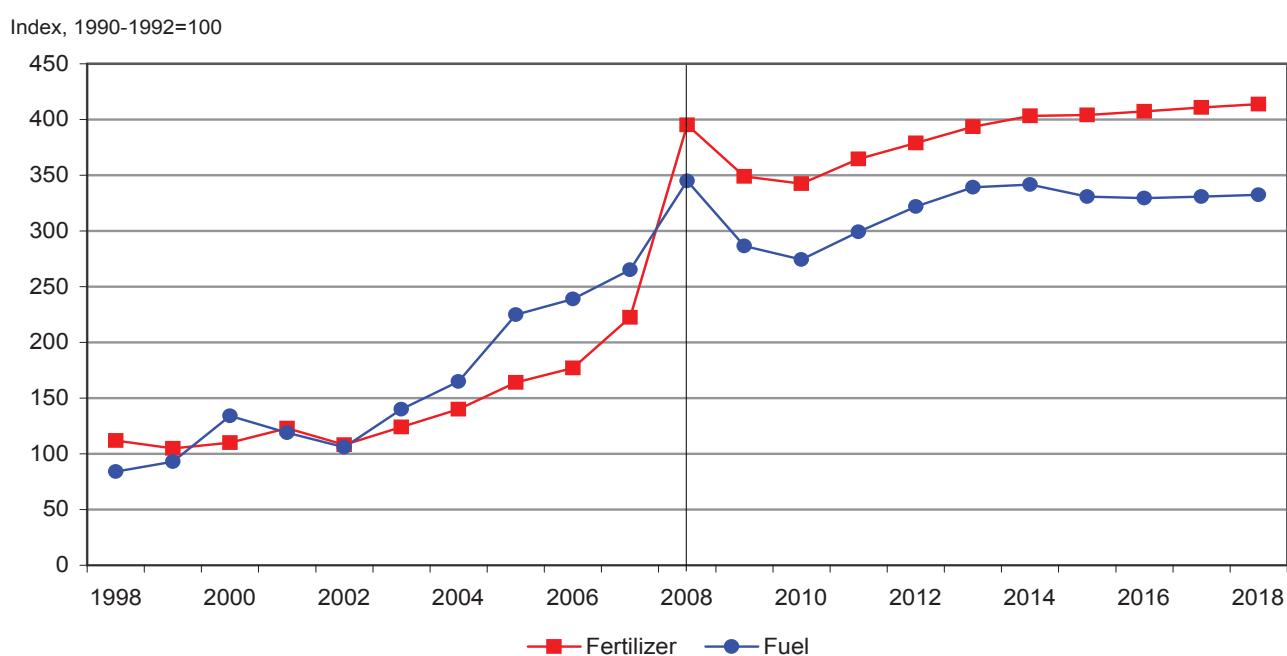
Million Metric Tons



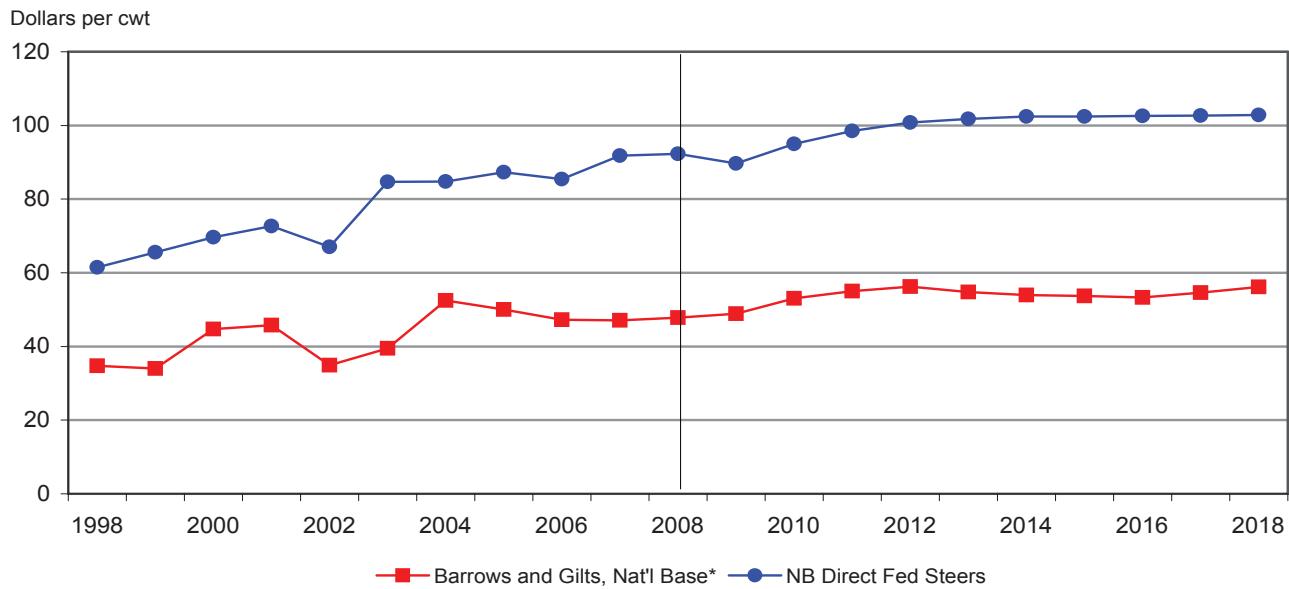
U.S. Biofuel Production



U.S. Farm-Level Prices Paid Indices

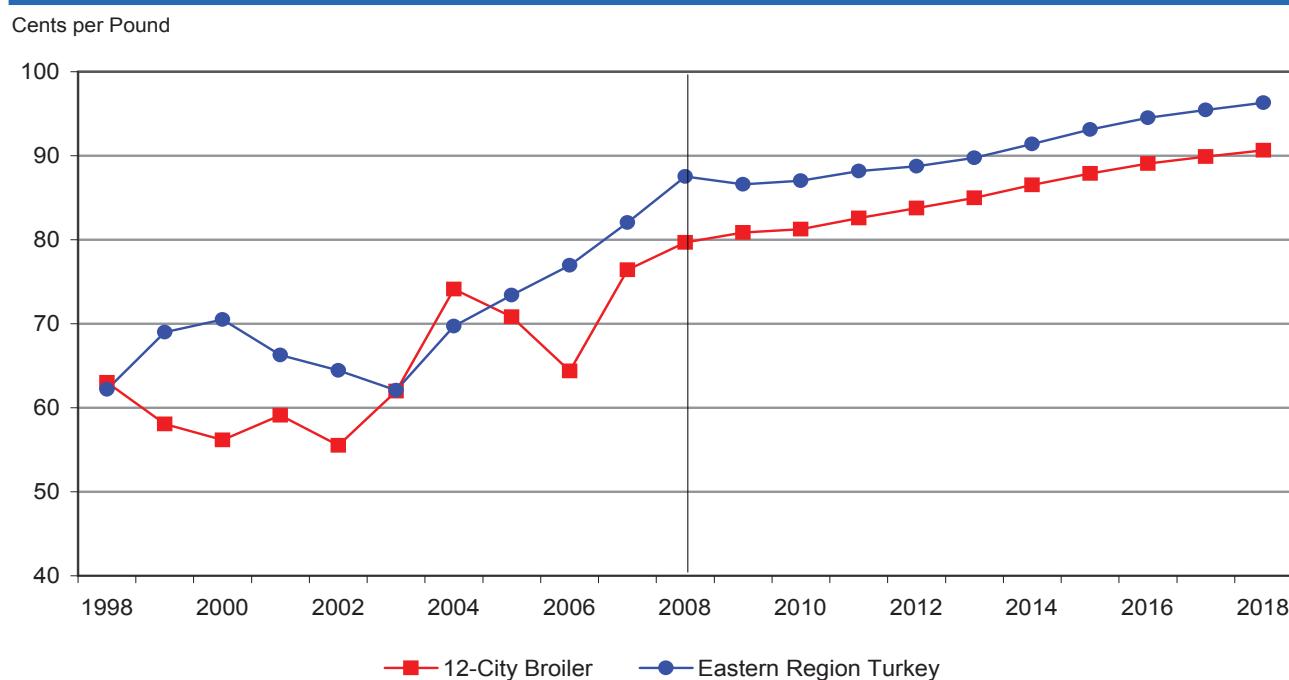


U.S. Cattle and Barrow and Gilt Prices

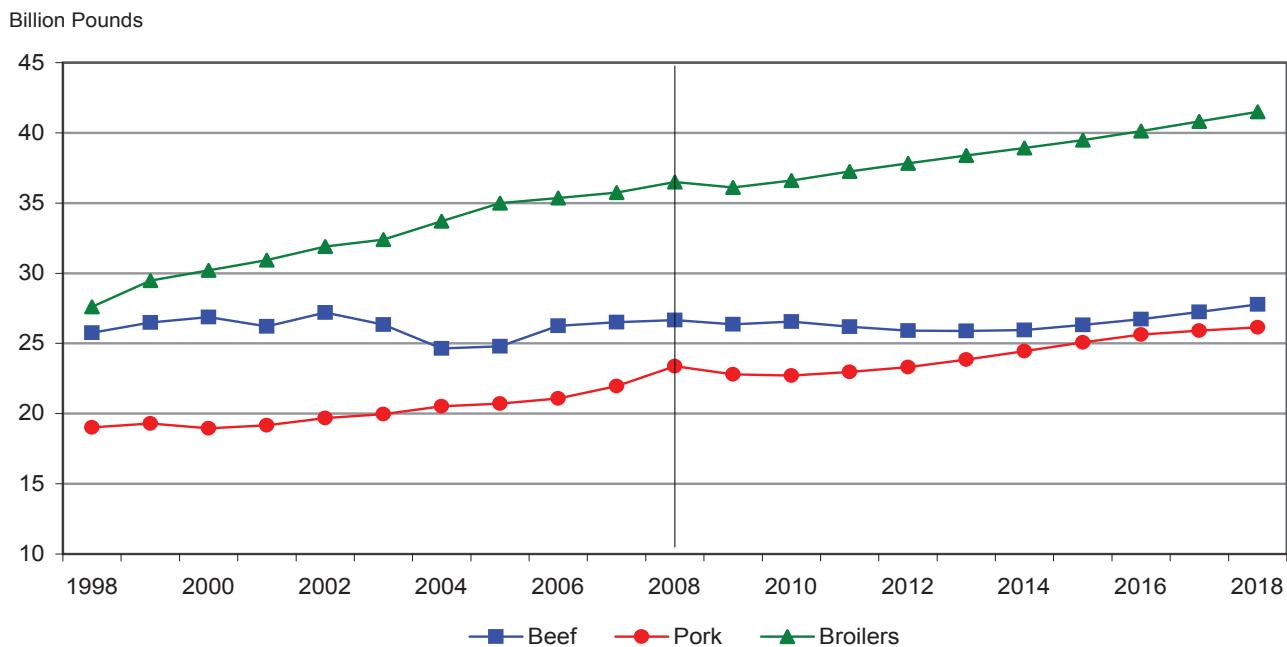


* National Base 51% - 52% Lean Equivalent

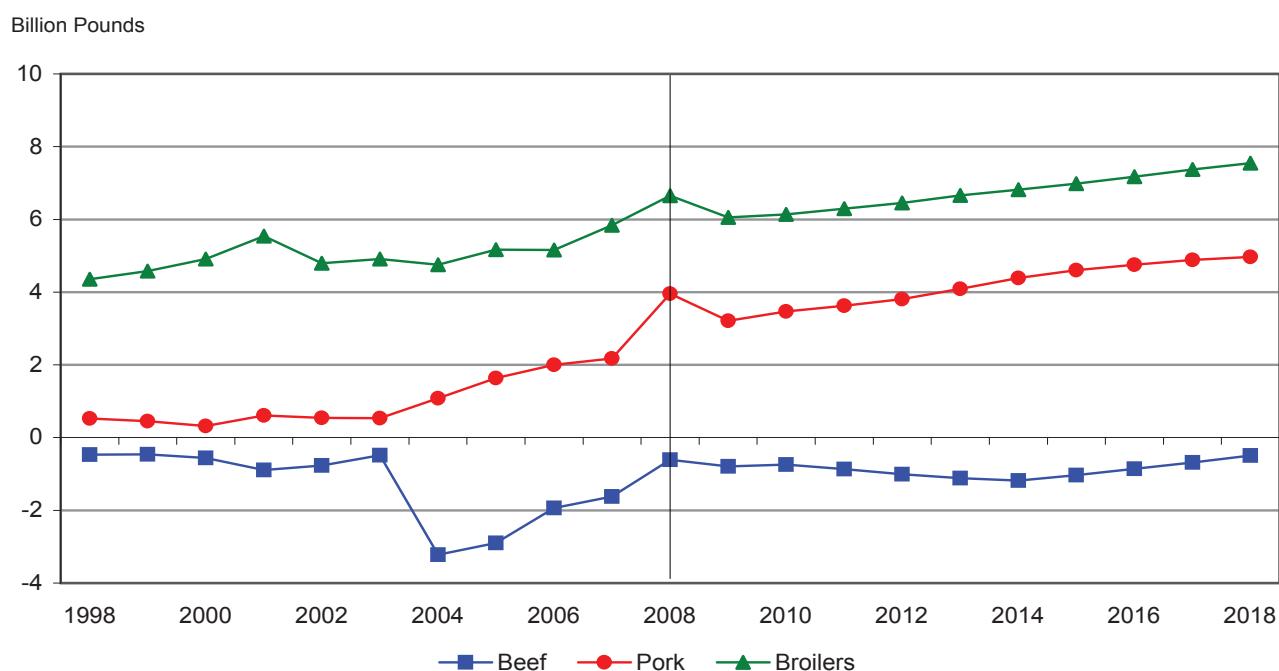
U.S. Poultry Wholesale Prices



U.S. Livestock Production

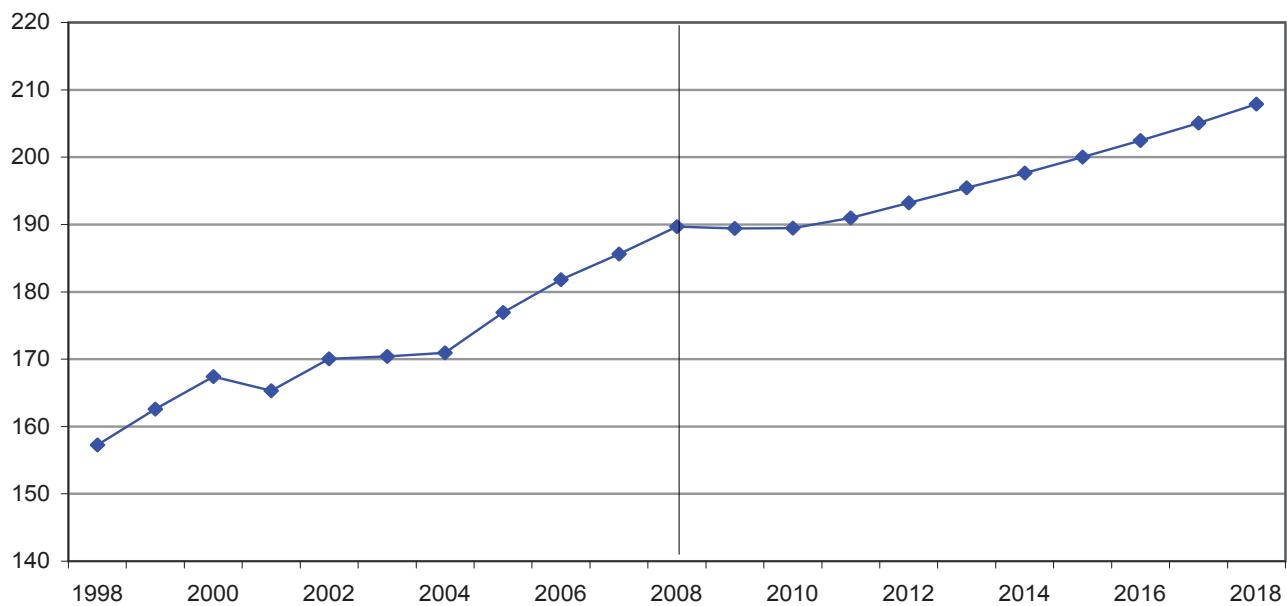


U.S. Meat Net Exports



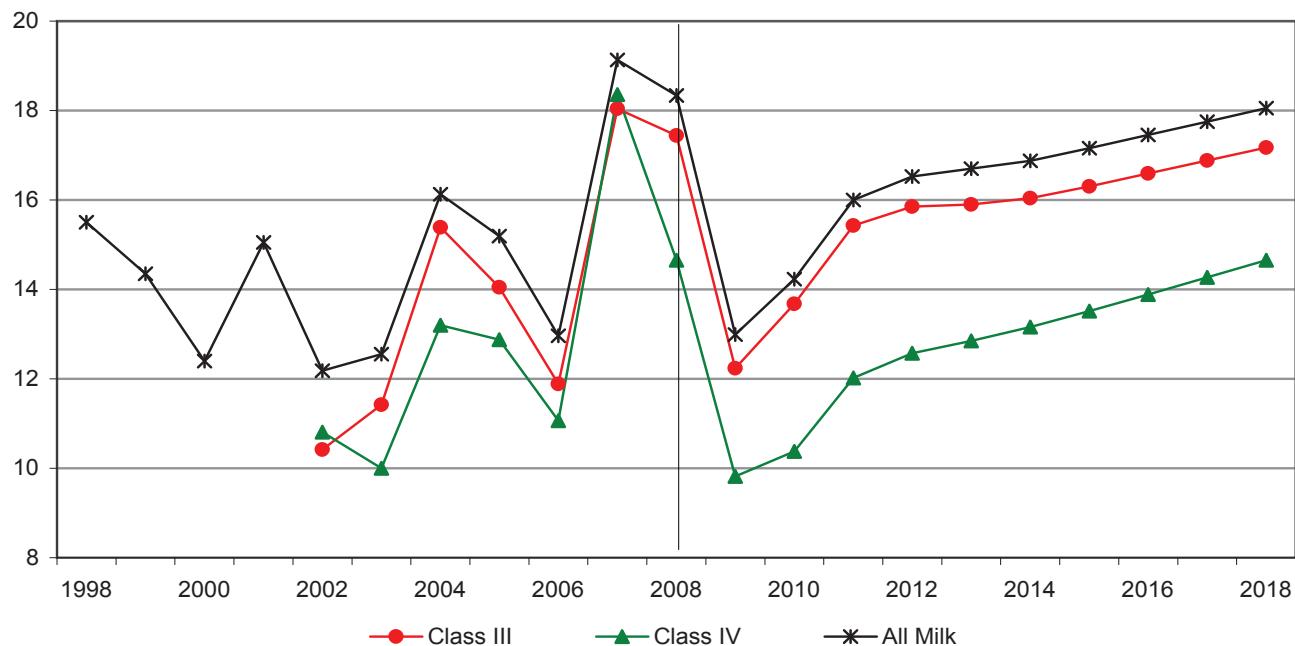
U.S. Milk Production

Billion Pounds

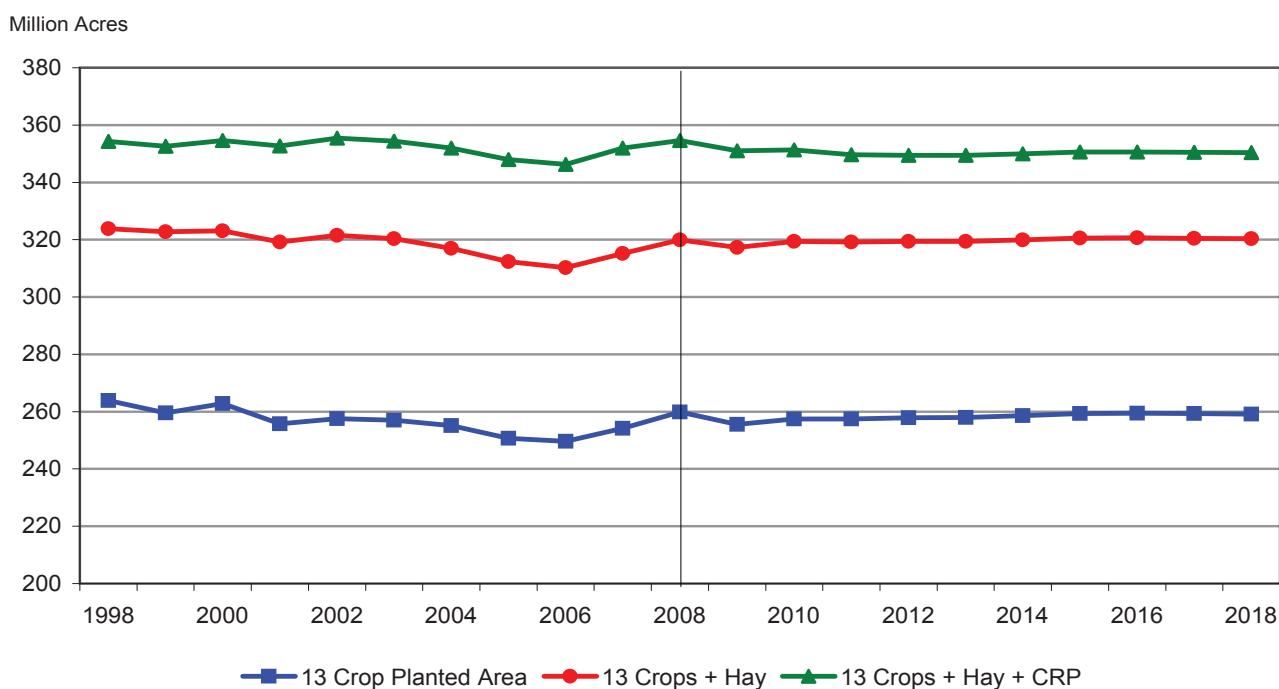


U.S. Milk Prices

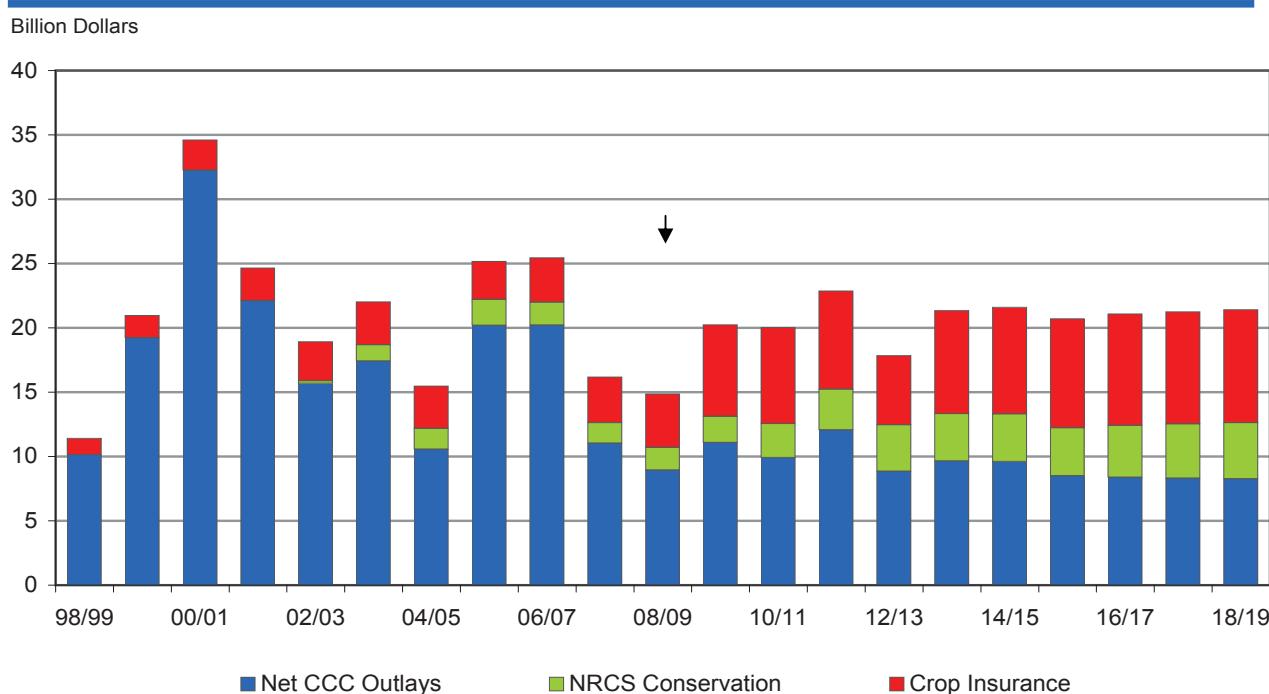
Dollars per cwt



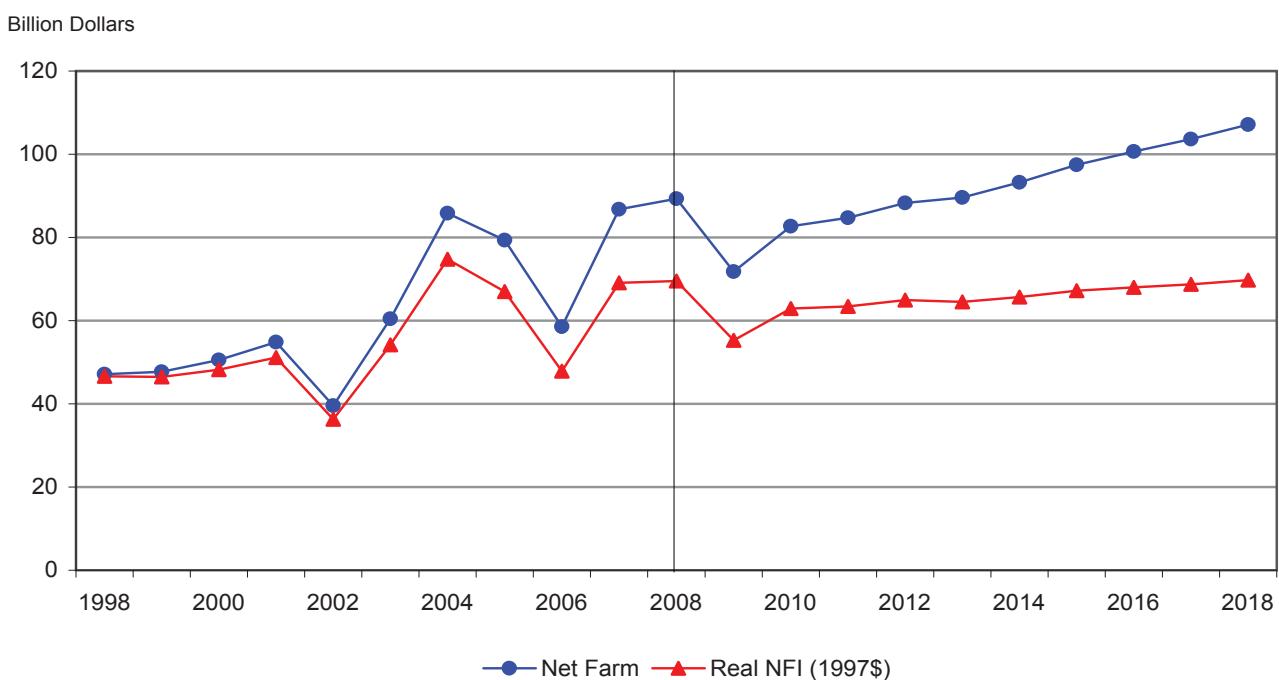
U.S. Land Use



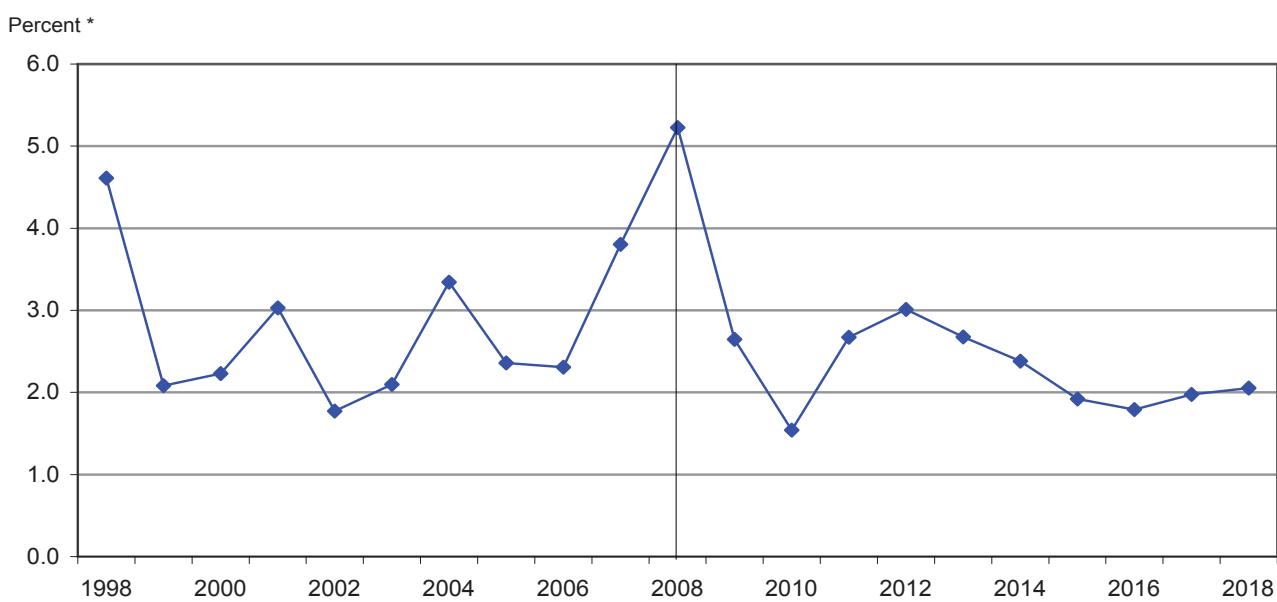
Mandatory U.S. Government Outlays, Fiscal Year



U.S. Farm Income

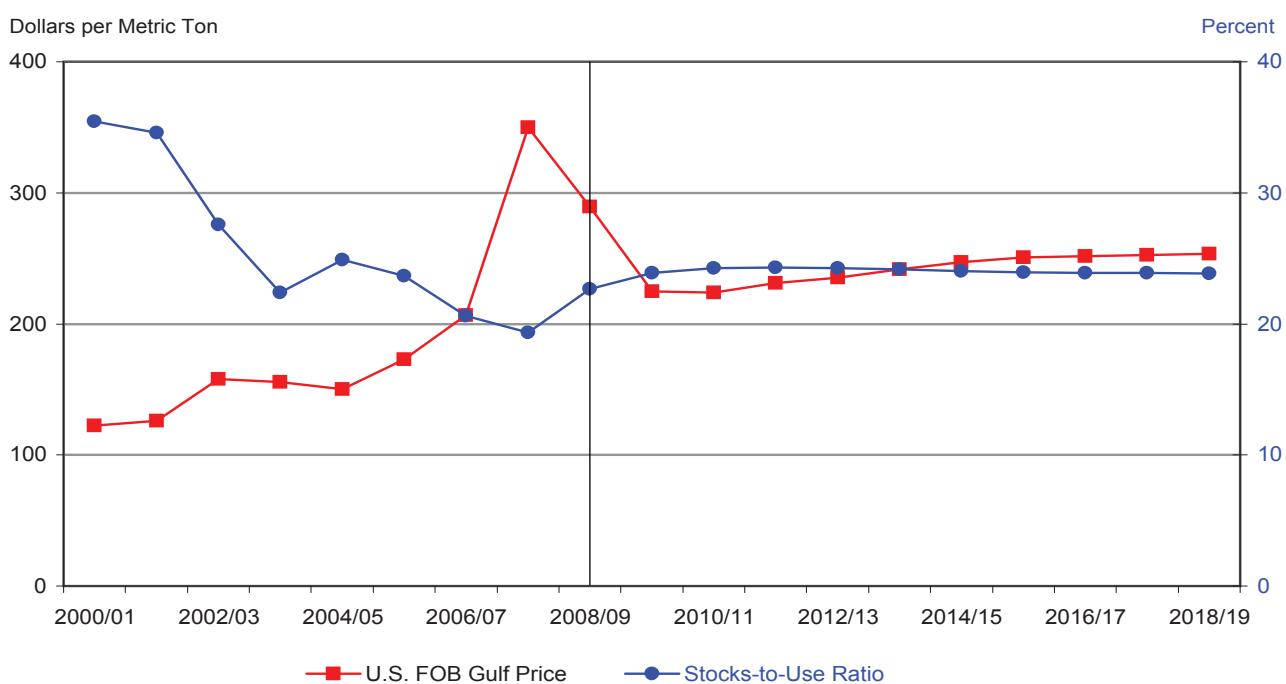


U.S. Consumer Price Index for Food

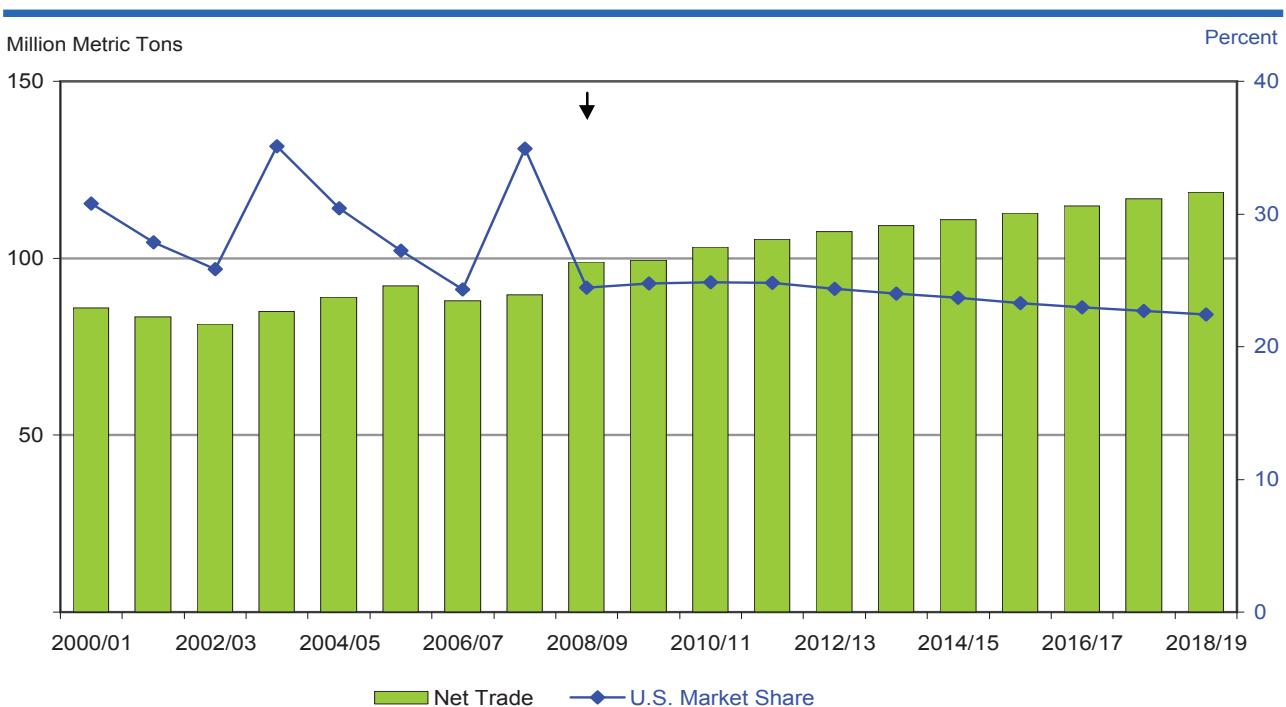


* Percentage increase in CPI for food vs. previous year.

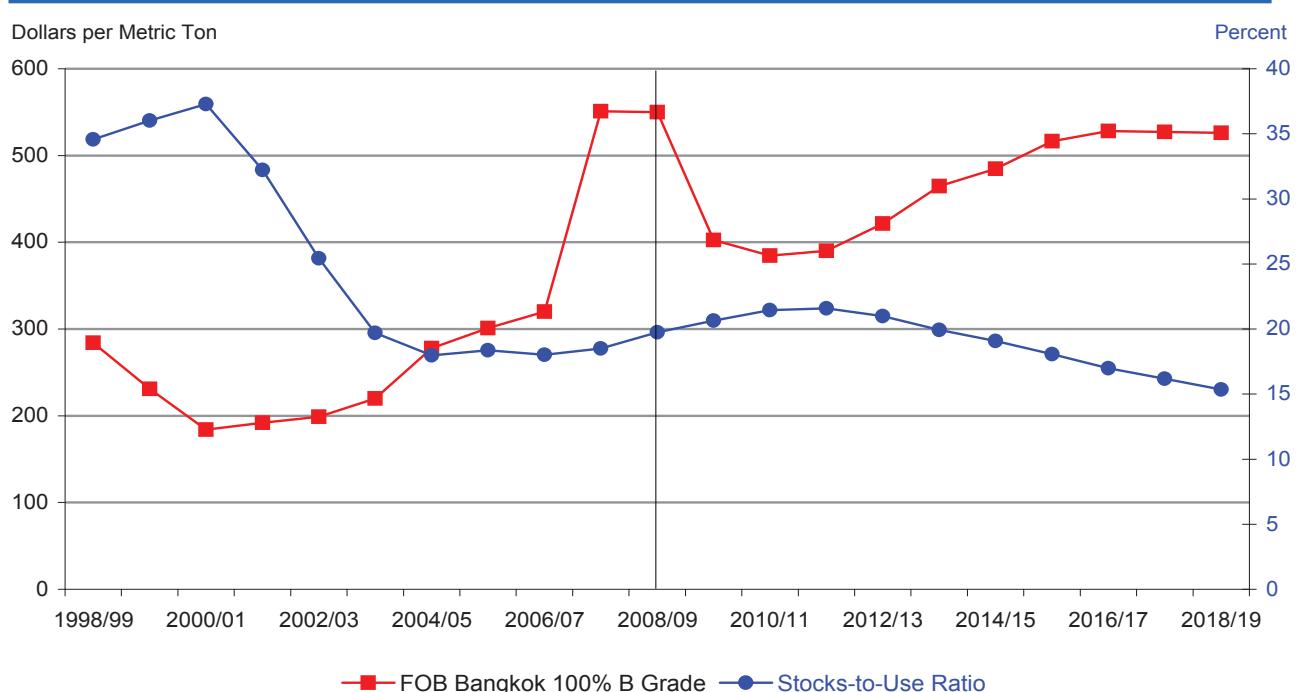
World Wheat Stocks-to-Use Ratio Versus Price



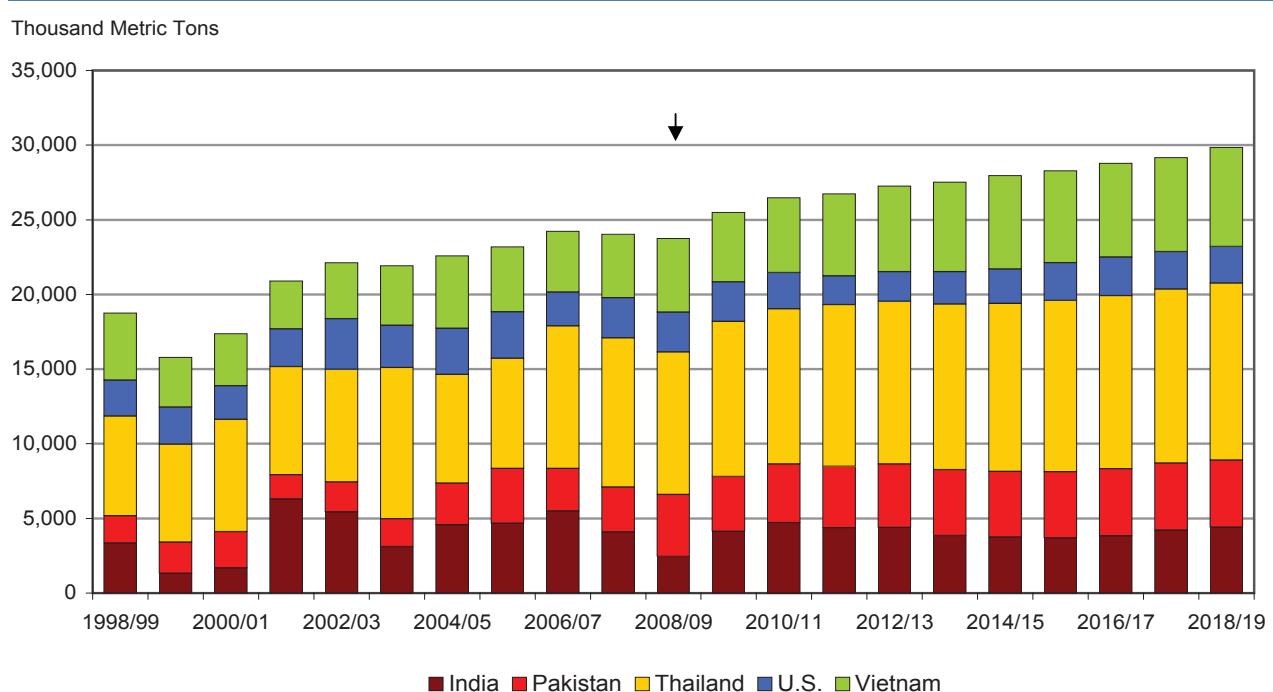
World Wheat Net Trade and U.S. Market Share



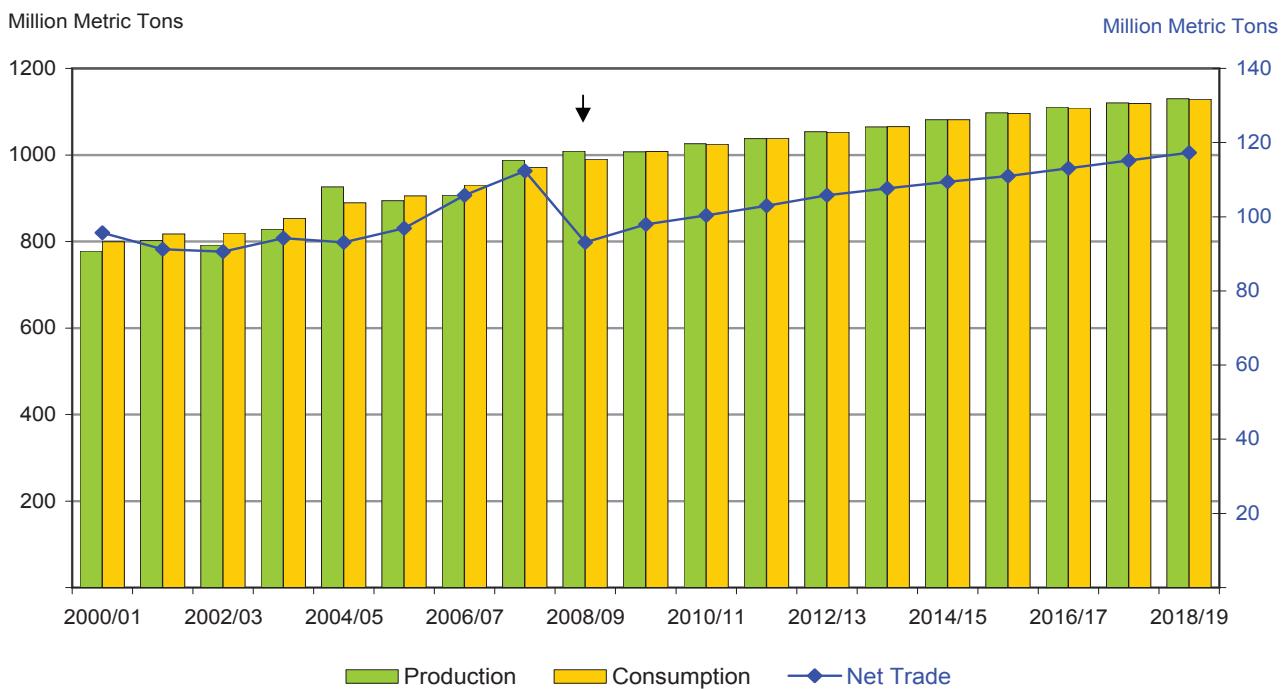
World Rice Stocks-to-Use Ratio Versus Price



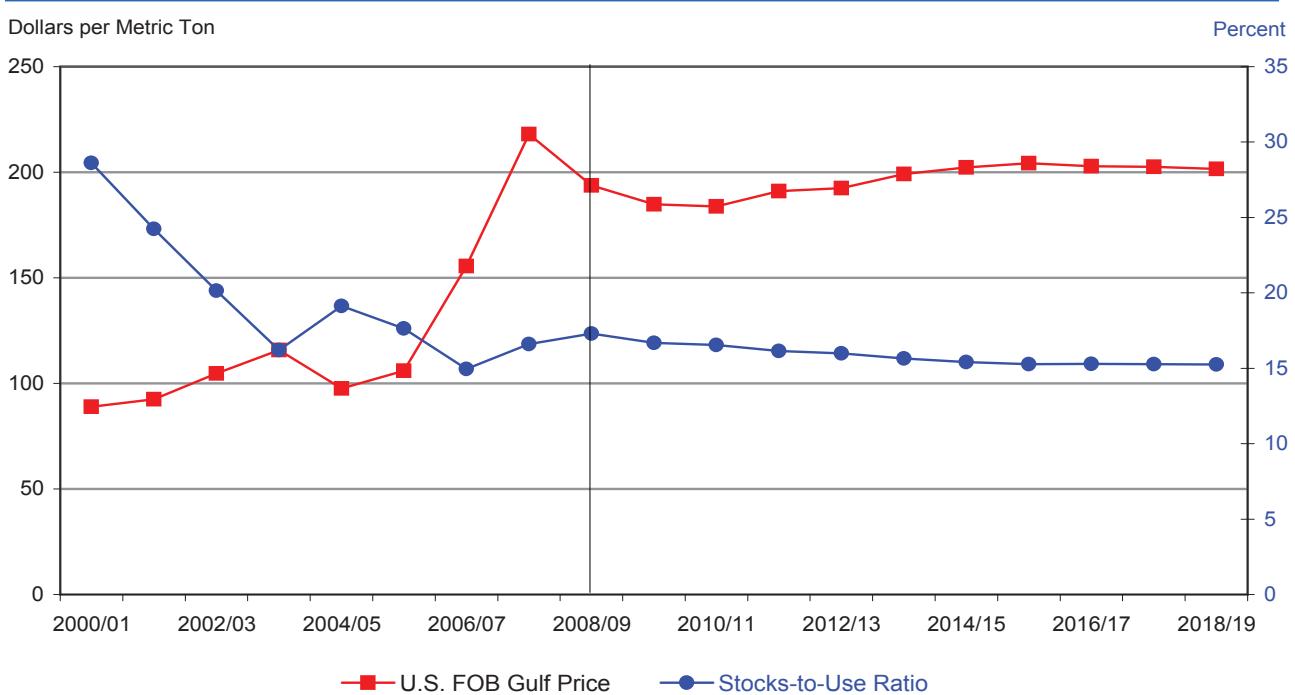
World Rice Net Exports



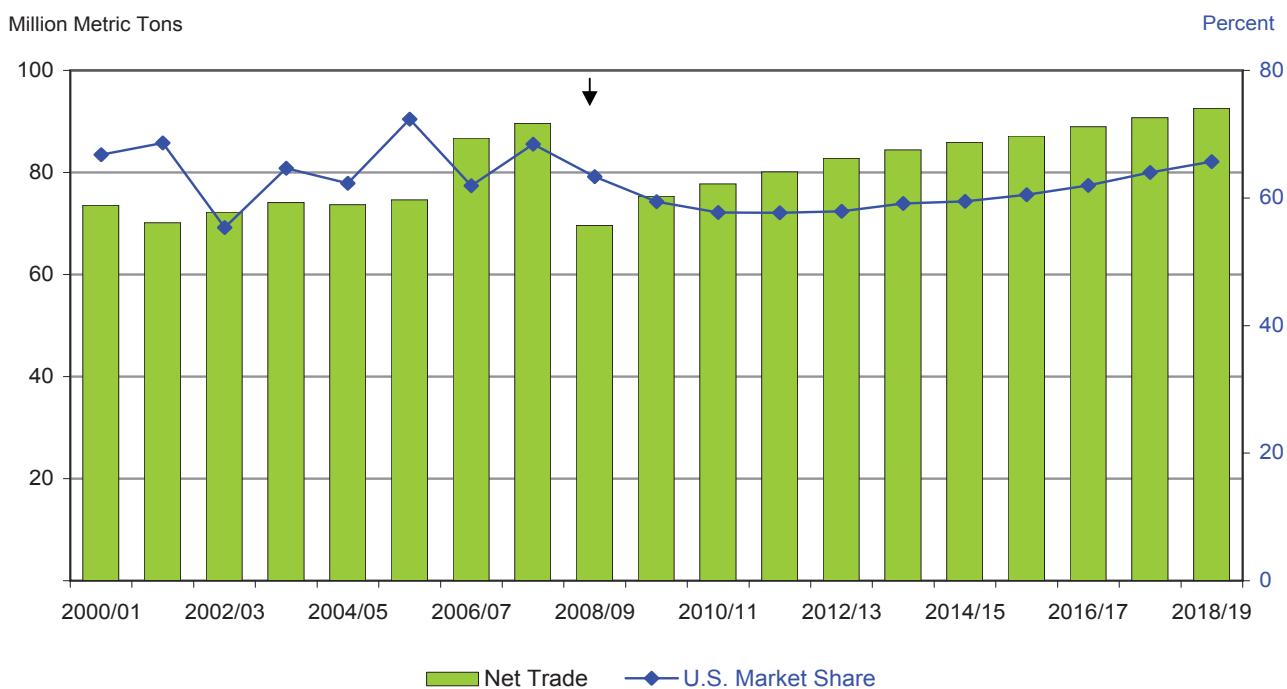
World Coarse Grain Supply and Utilization



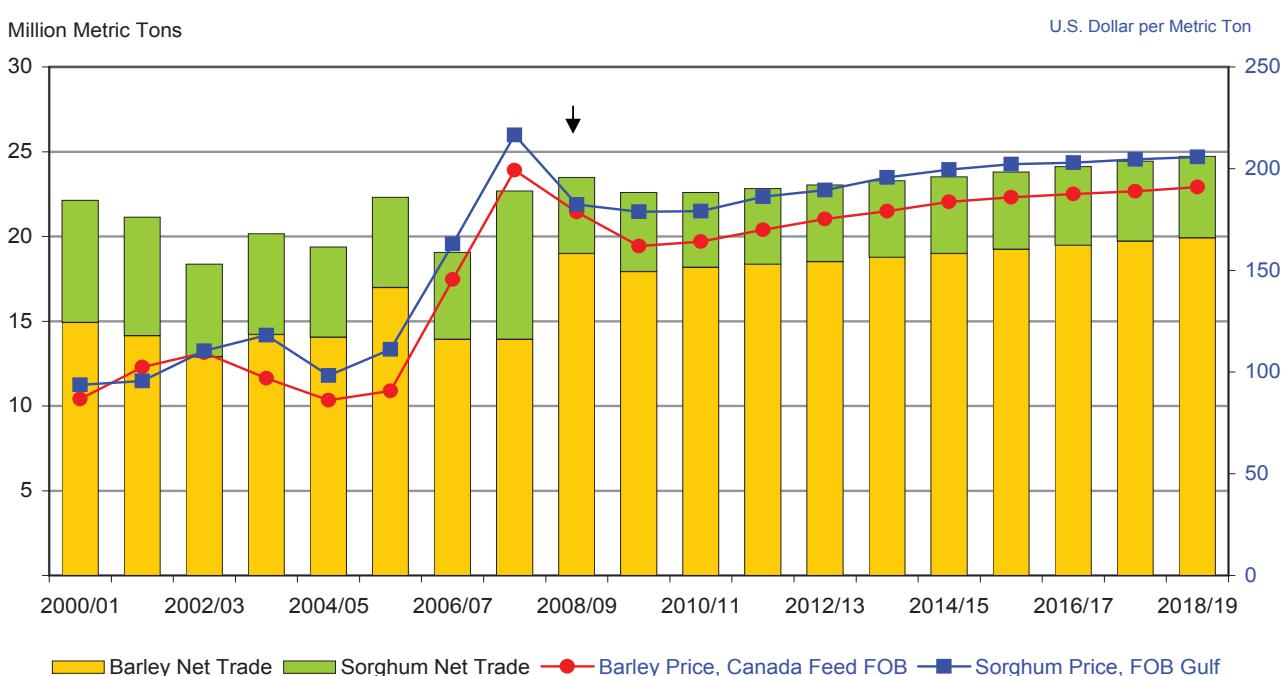
World Corn Stocks-to-Use Ratio Versus Price



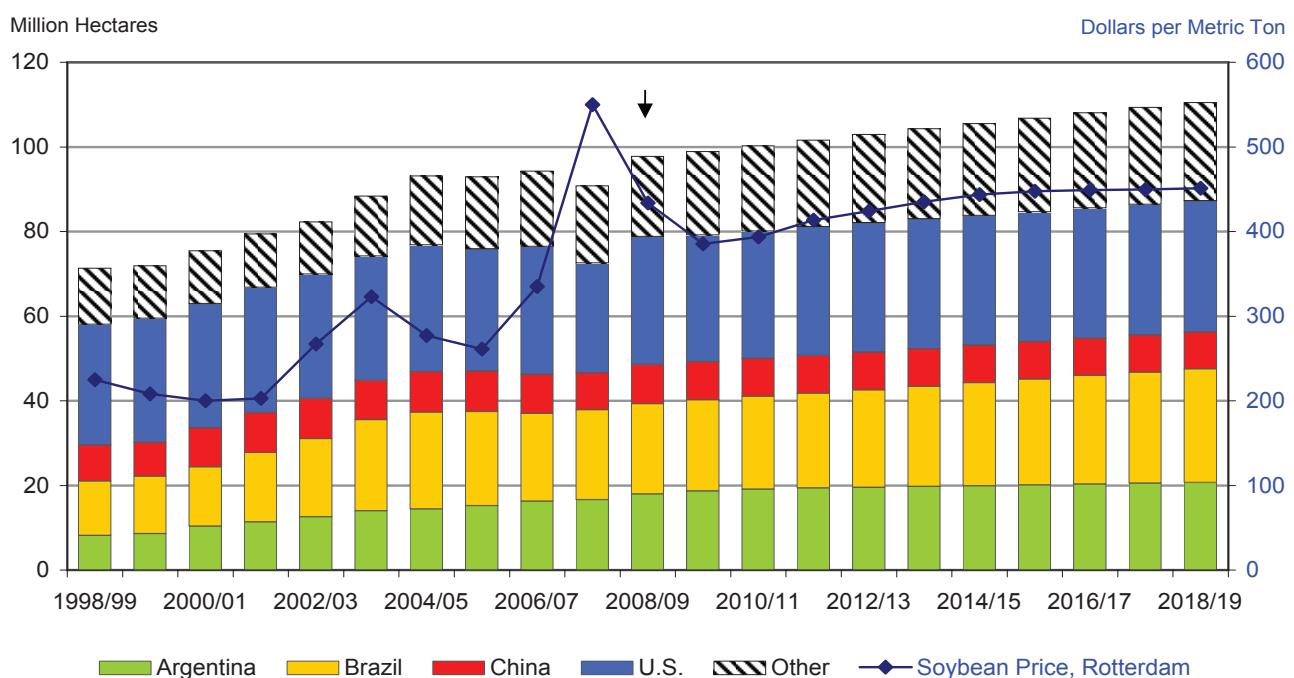
World Corn Net Trade and U.S. Market Share



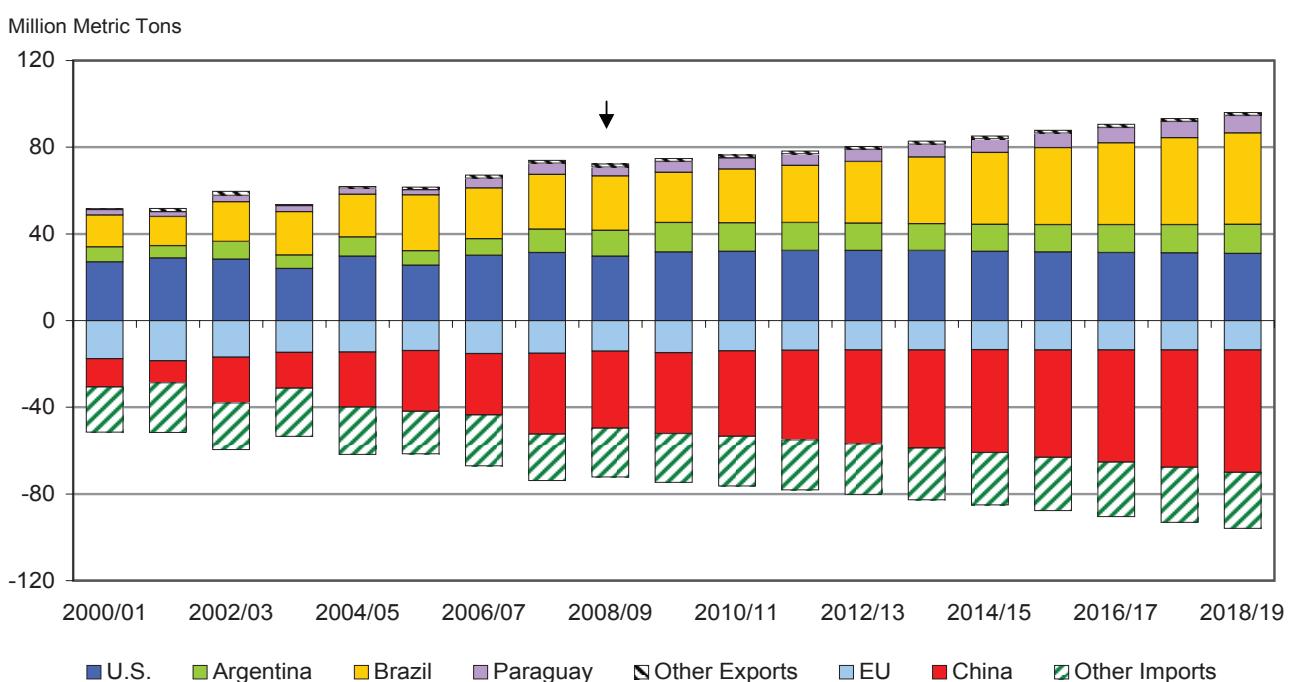
World Barley and Sorghum Net Trade and Prices



World Soybean Area Harvested and Price

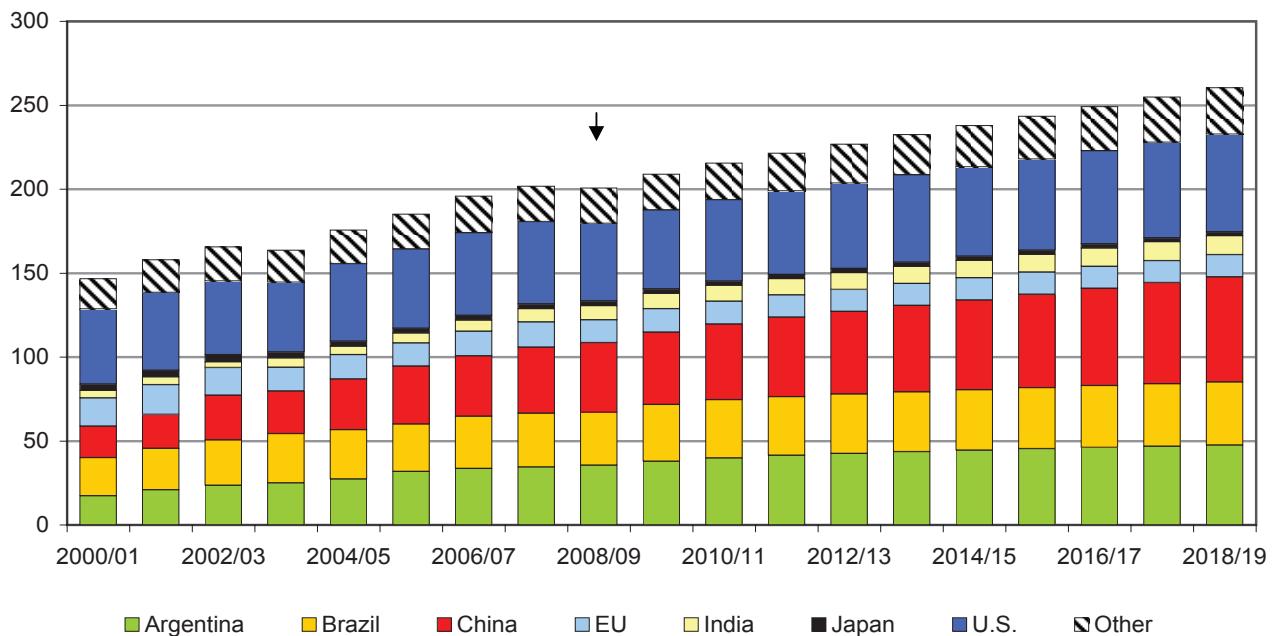


World Soybean Net Trade



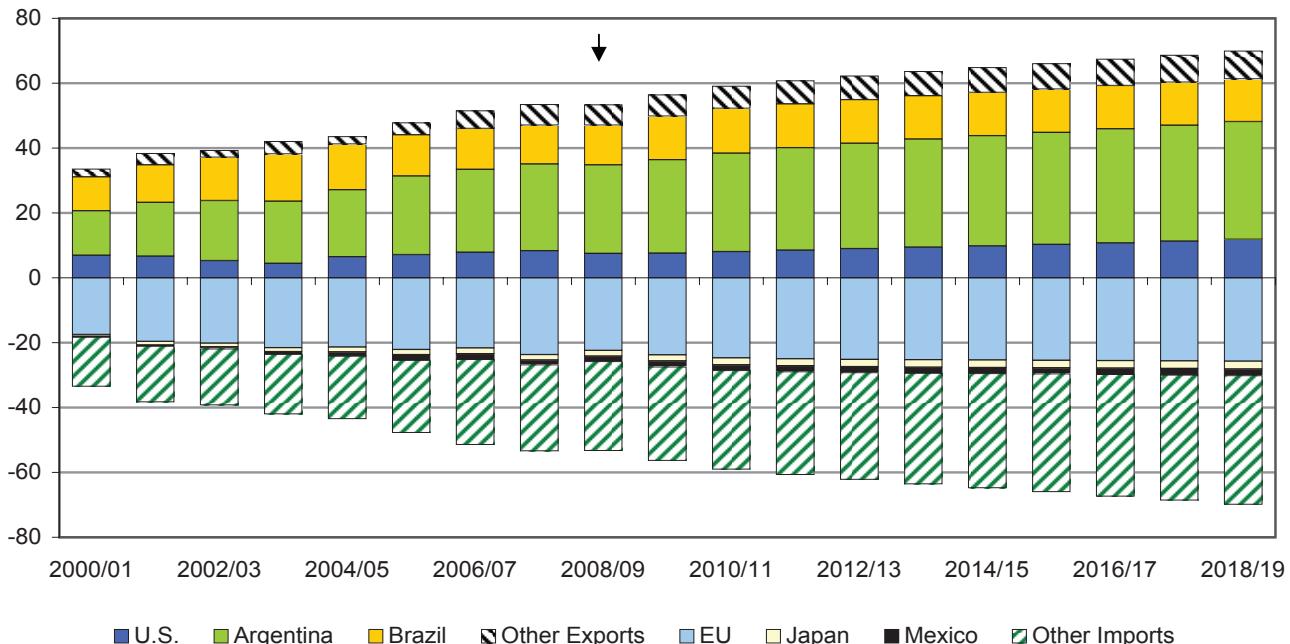
World Soybean Crush

Million Metric Tons

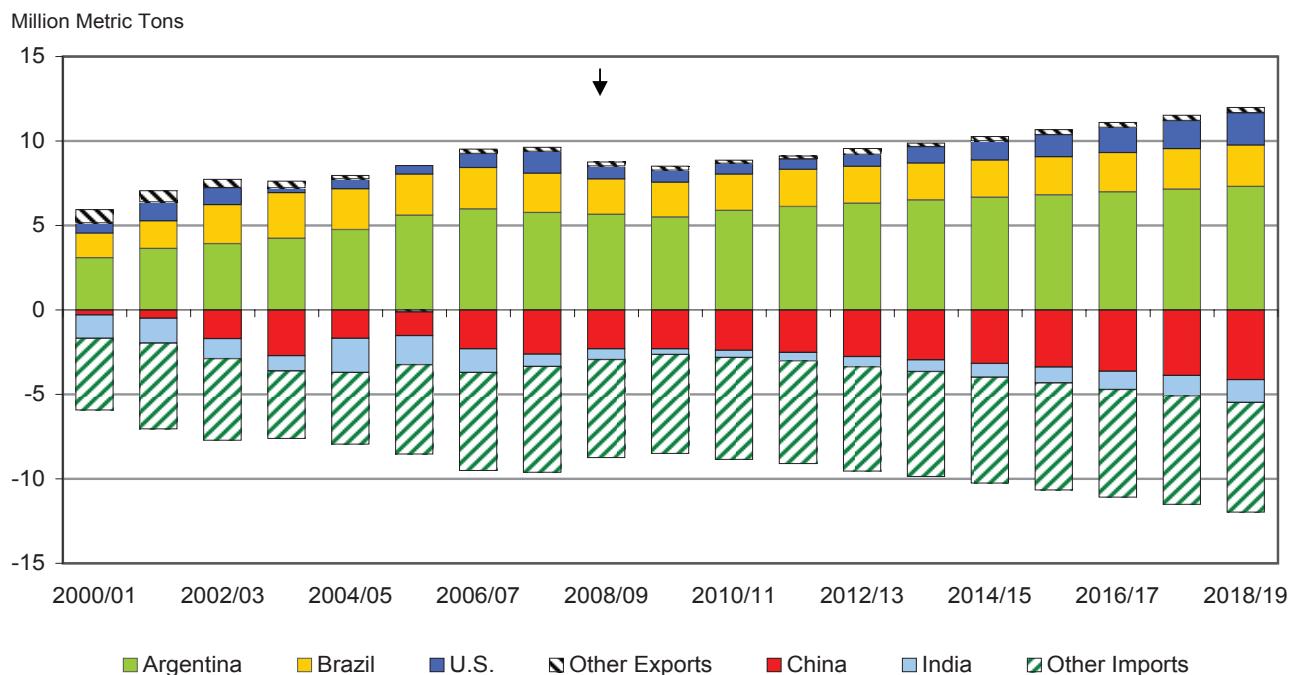


World Soybean Meal Net Trade

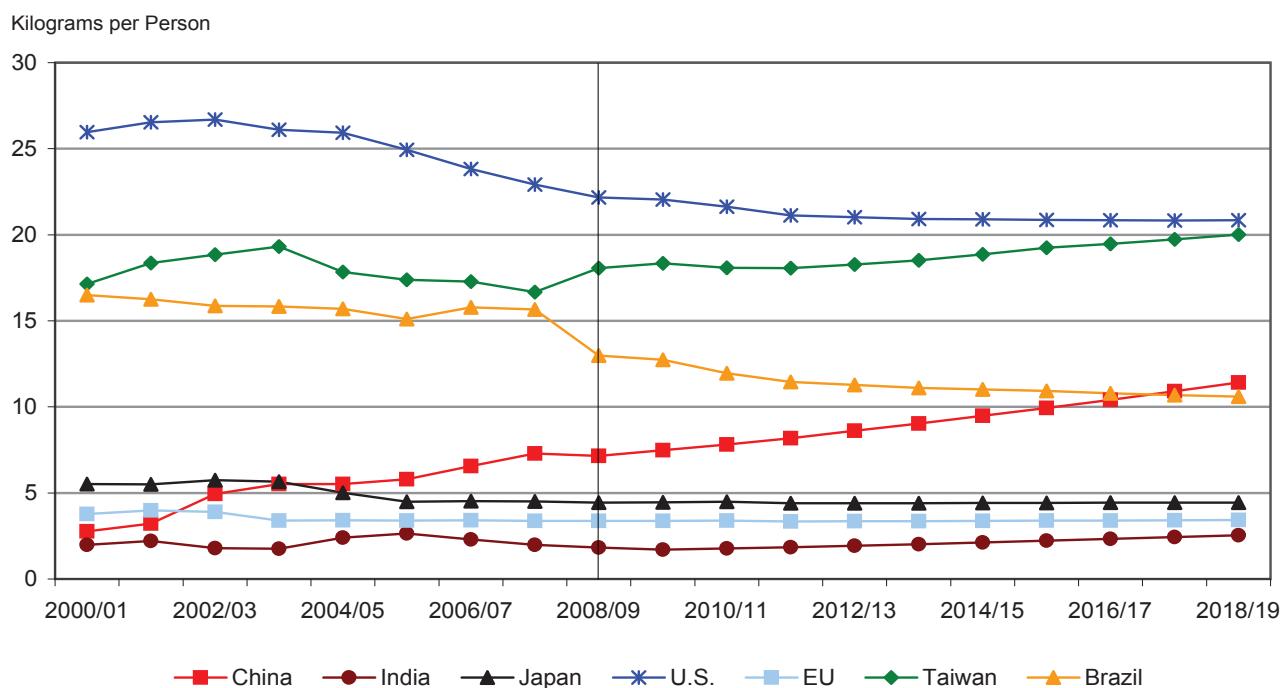
Million Metric Tons



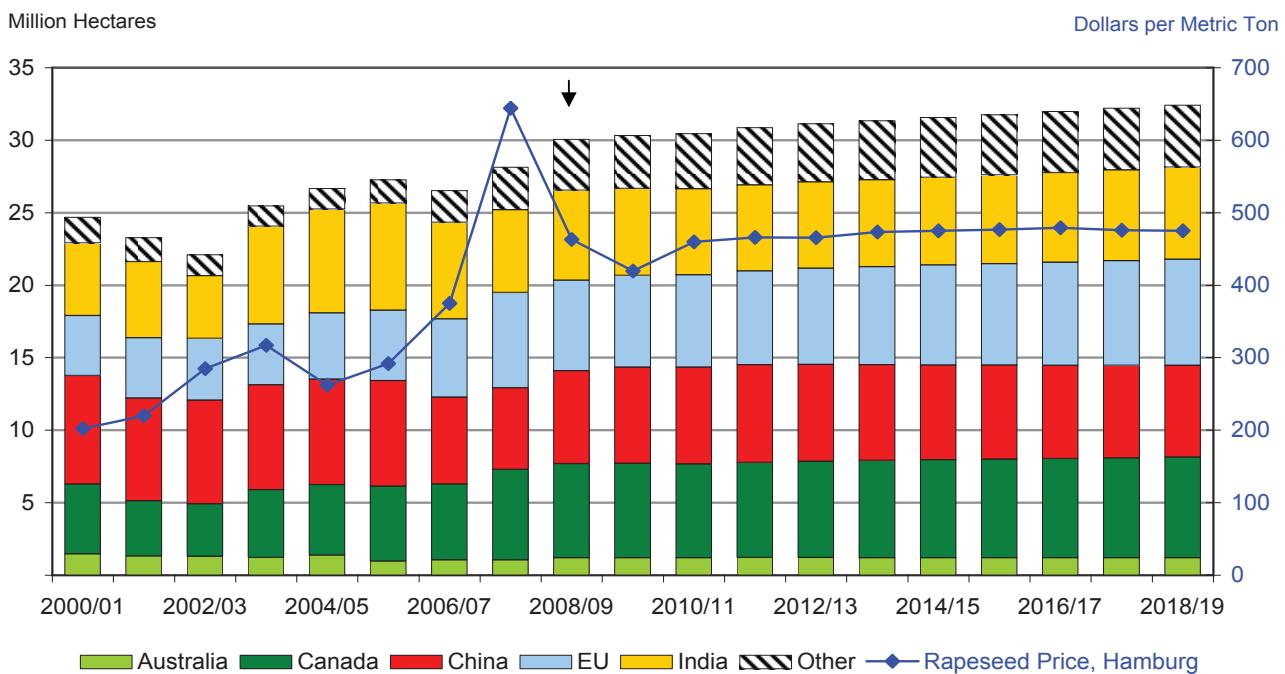
World Soybean Oil Net Trade



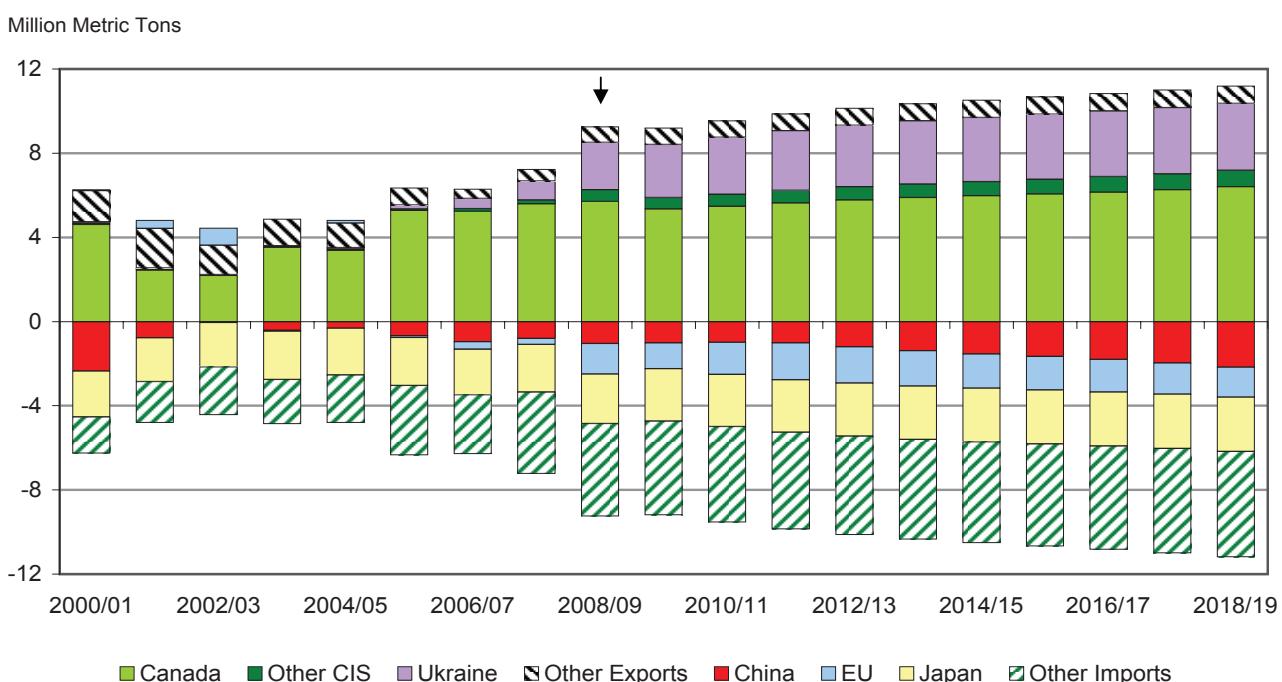
Soybean Oil Per Capita Consumption in Selected Countries



World Rapeseed Area Harvested and Price

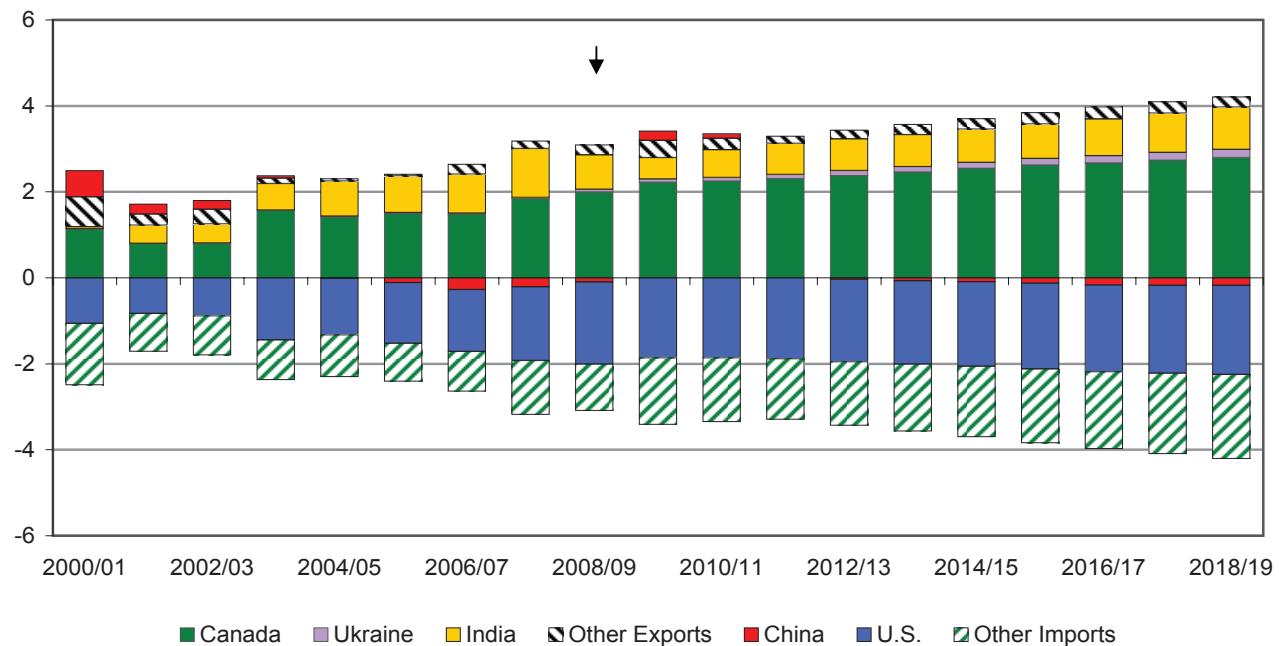


World Rapeseed Net Trade



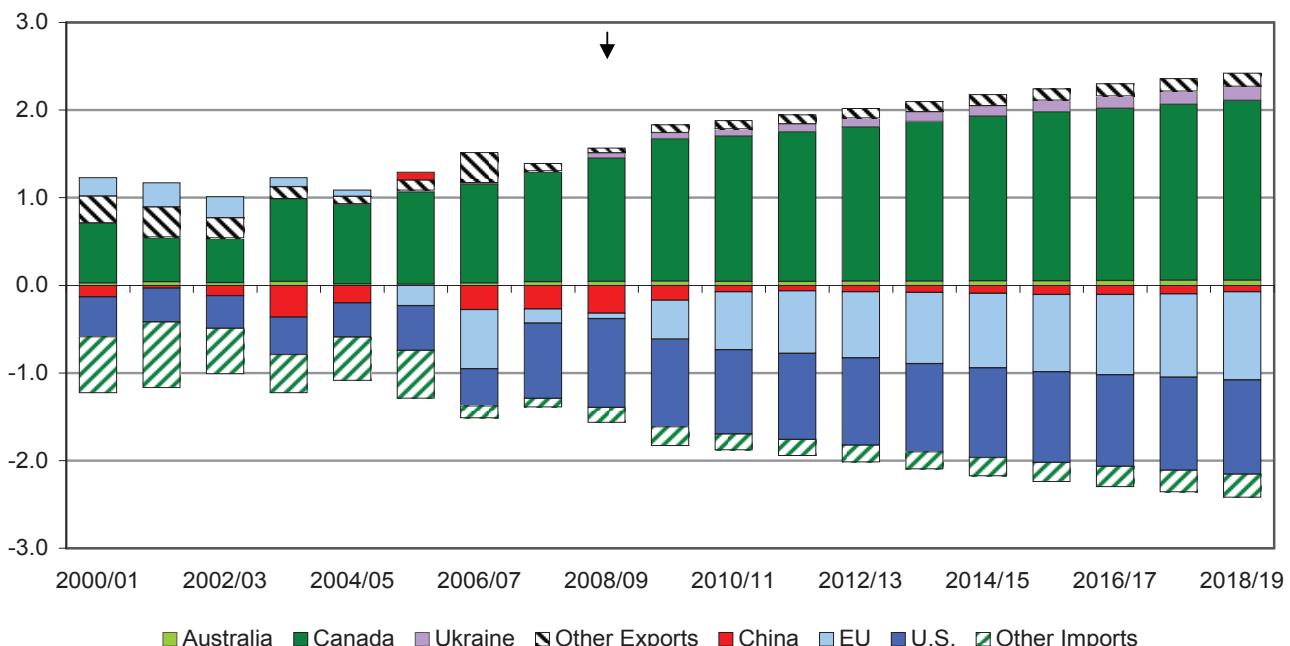
World Rapeseed Meal Net Trade

Million Metric Tons

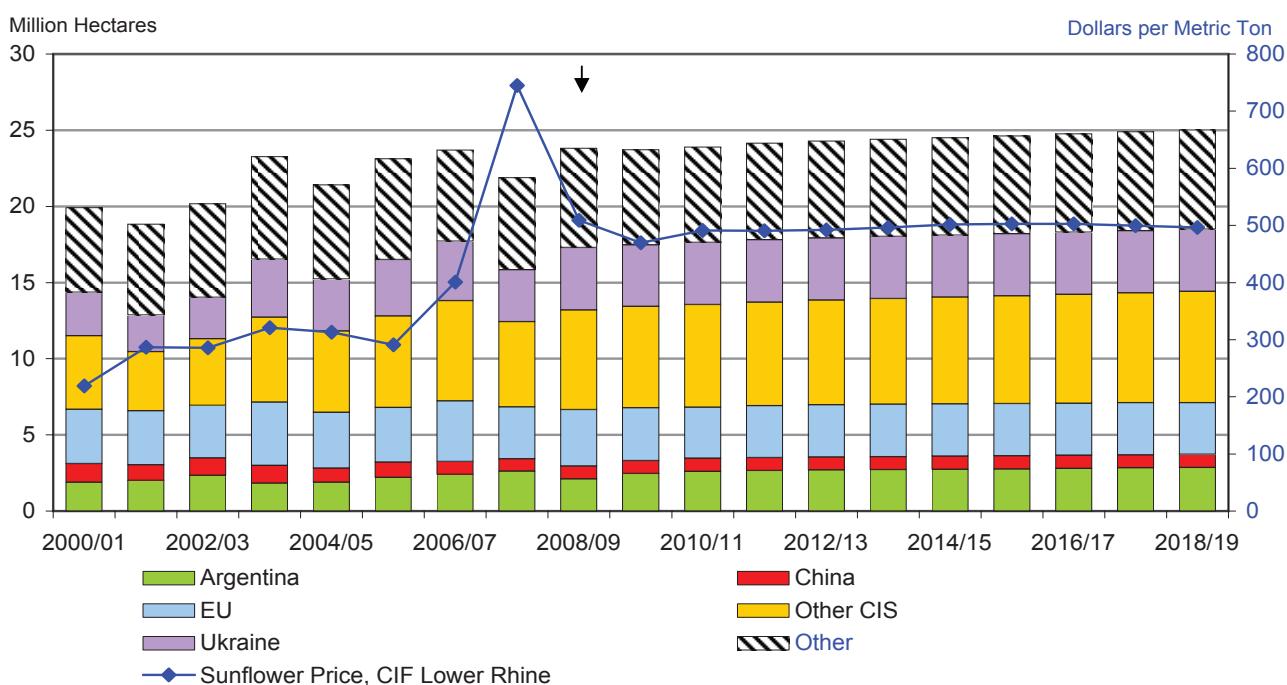


World Rapeseed Oil Net Trade

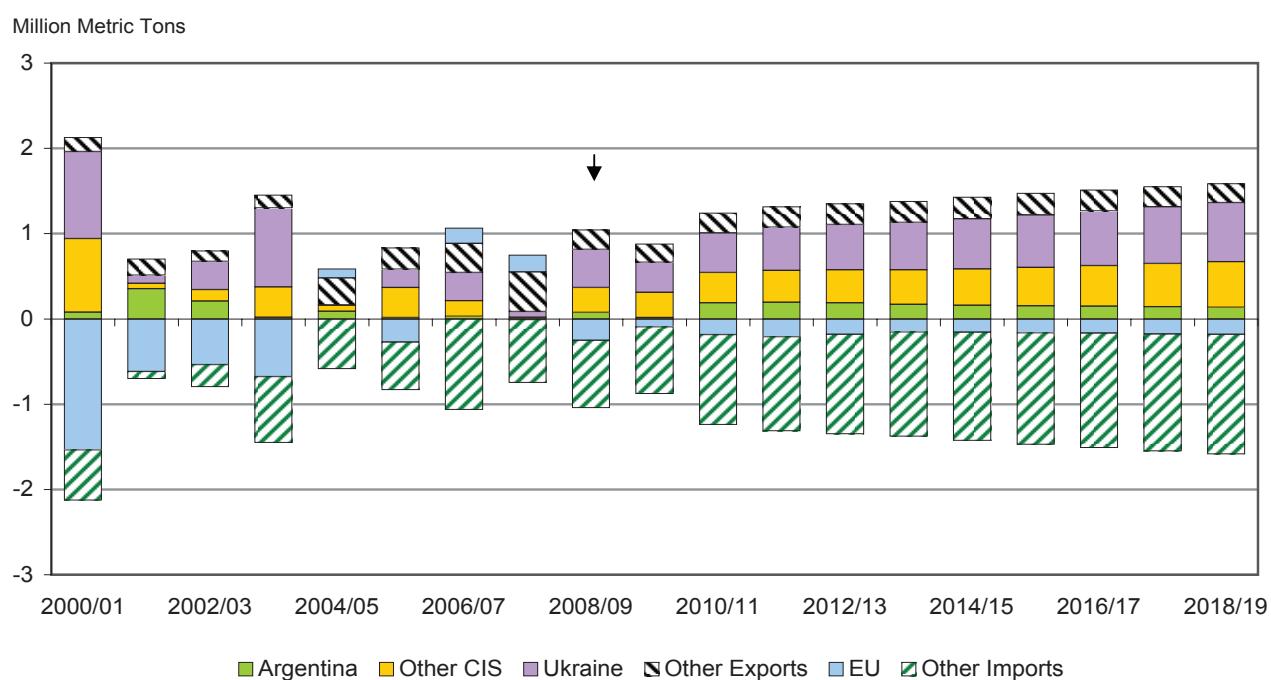
Million Metric Tons



World Sunflower Area Harvested and Price

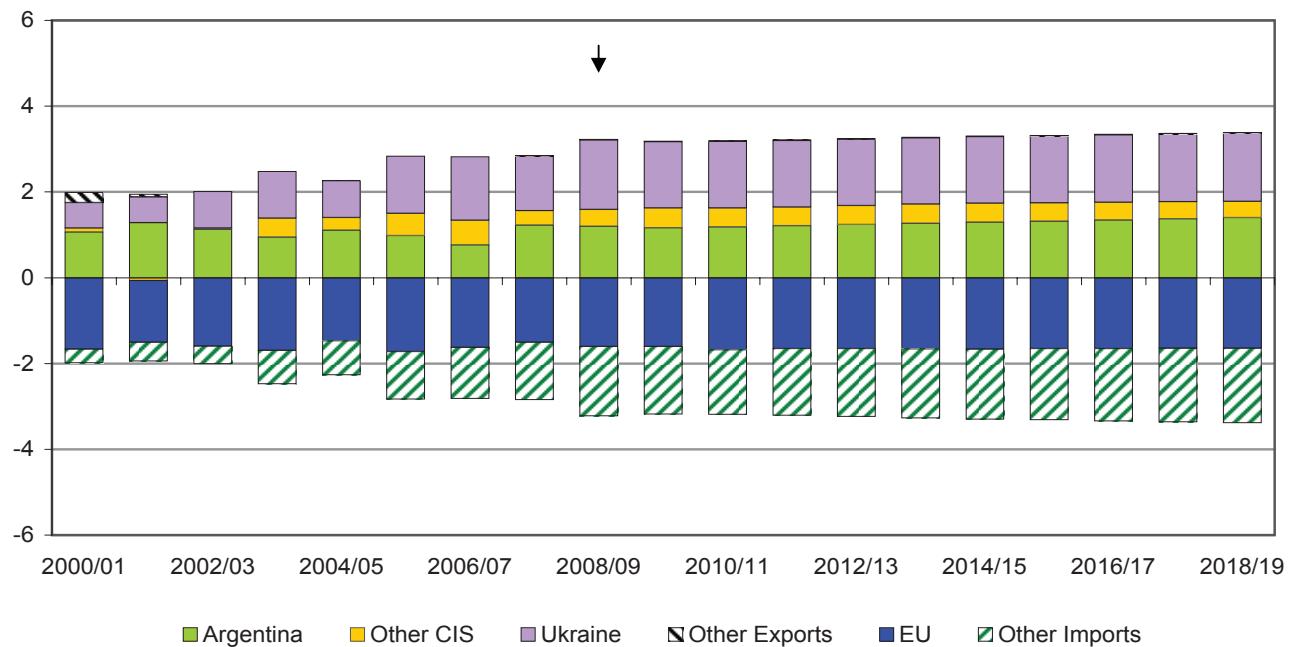


World Sunflower Net Trade



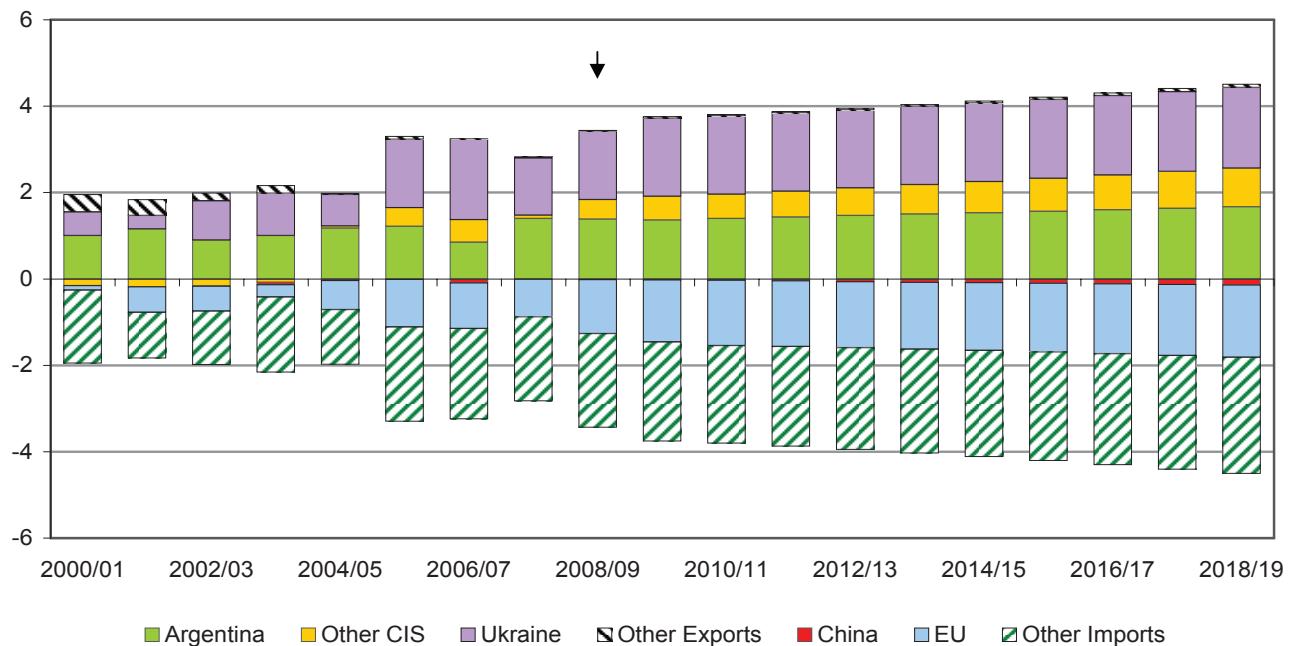
World Sunflower Meal Net Trade

Million Metric Tons

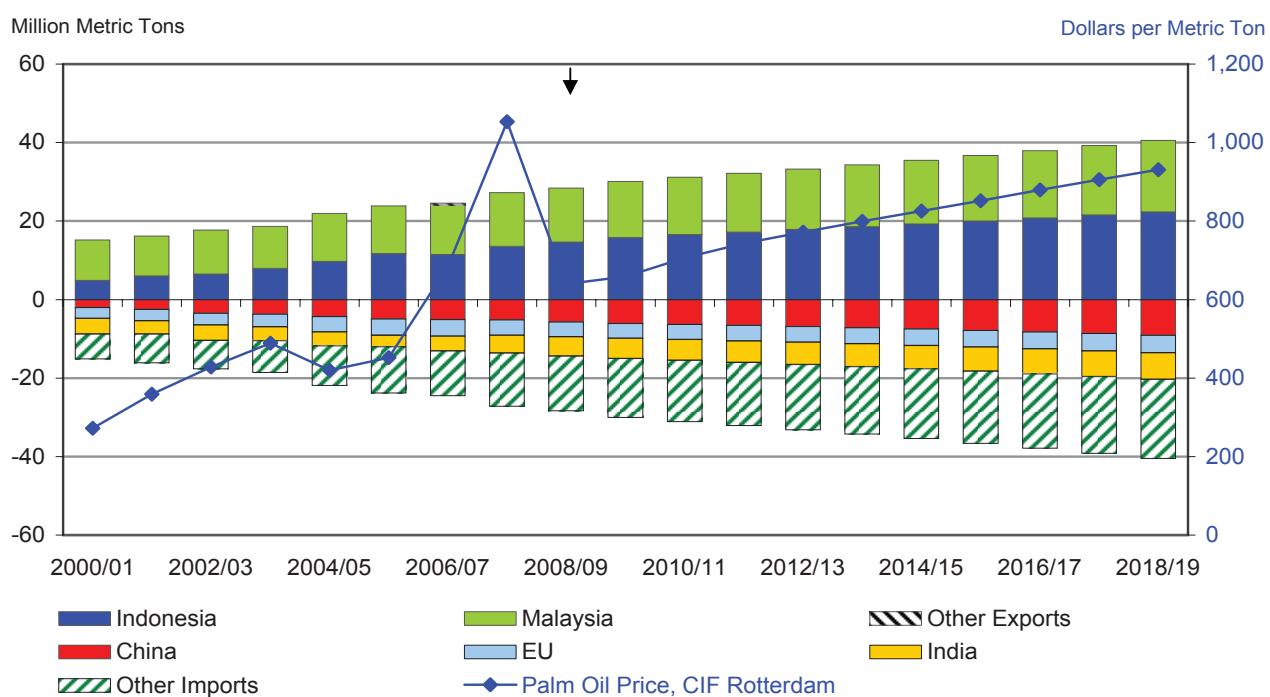


World Sunflower Oil Net Trade

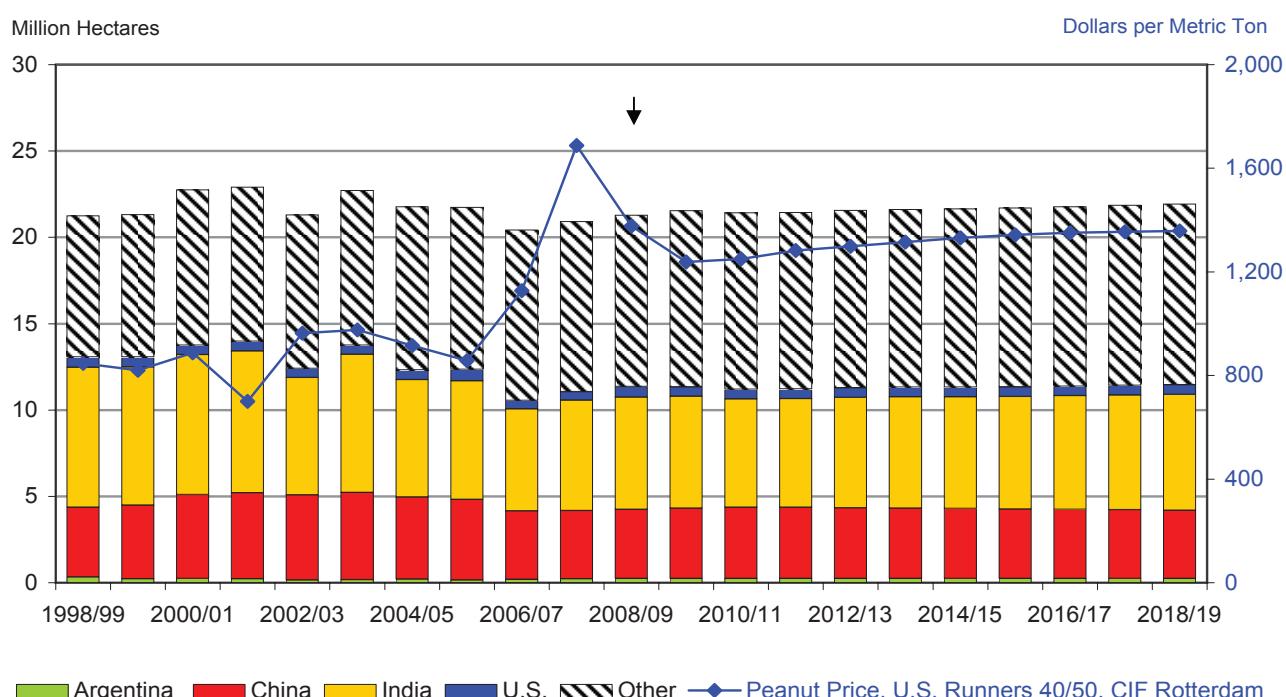
Million Metric Tons



World Palm Oil Net Trade and Price

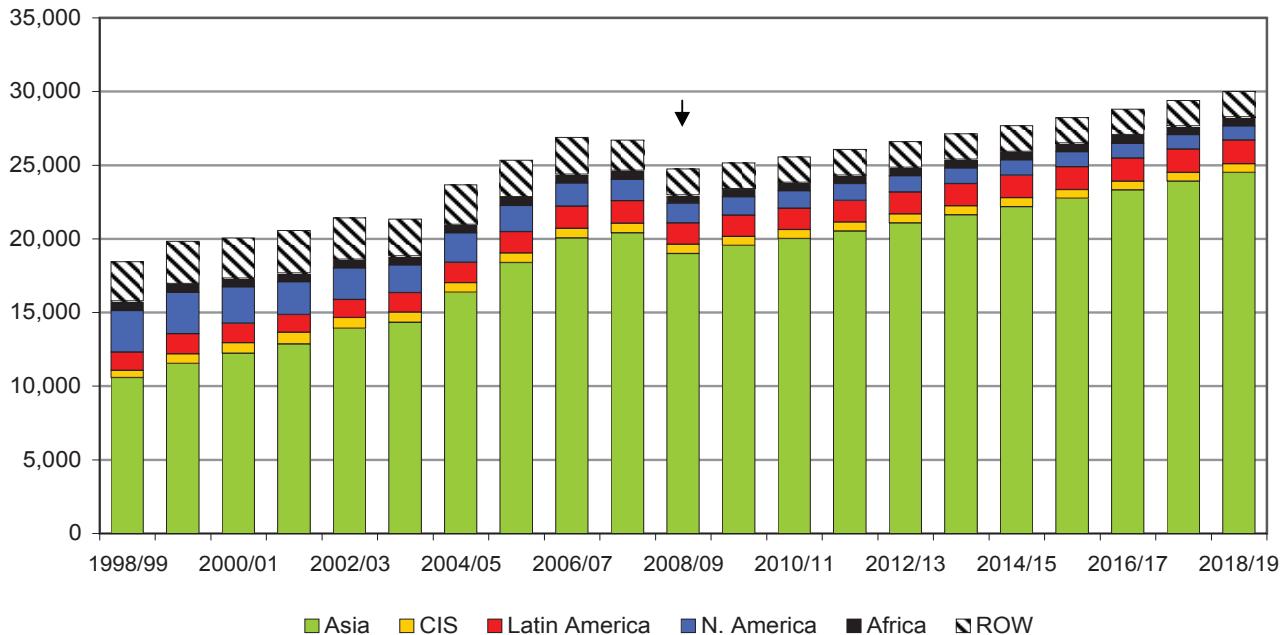


World Peanut Area Harvested and Price



World Cotton Consumption

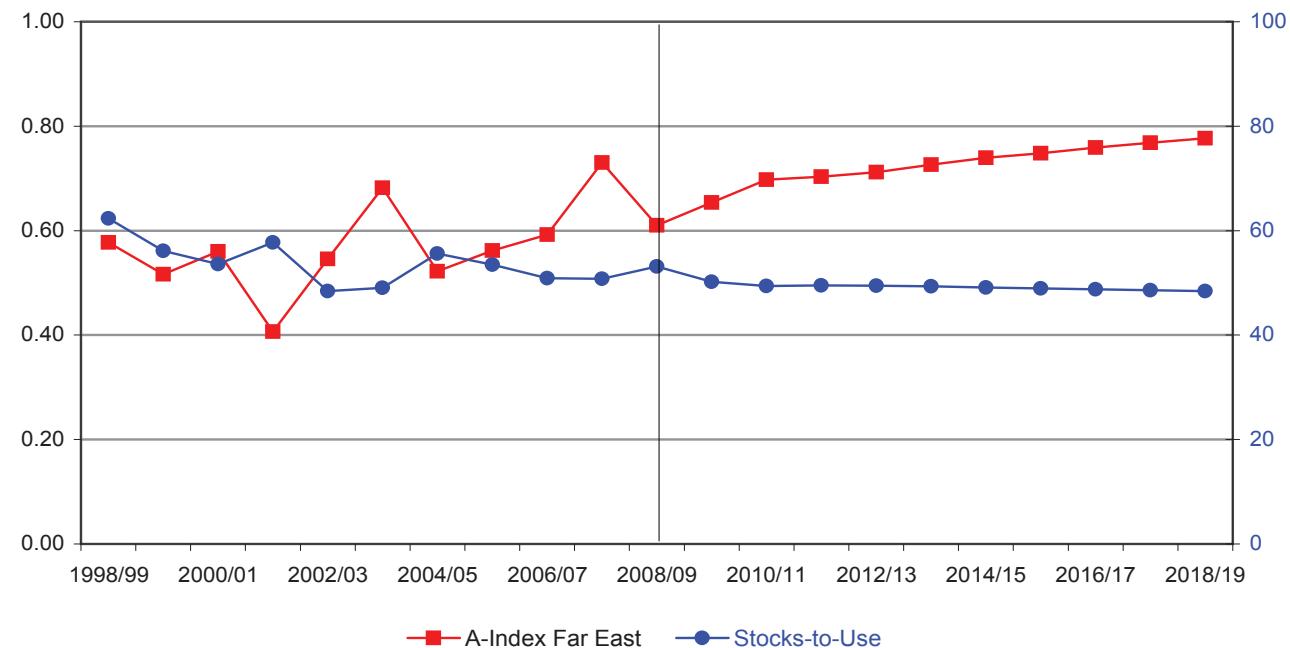
Thousand Metric Tons



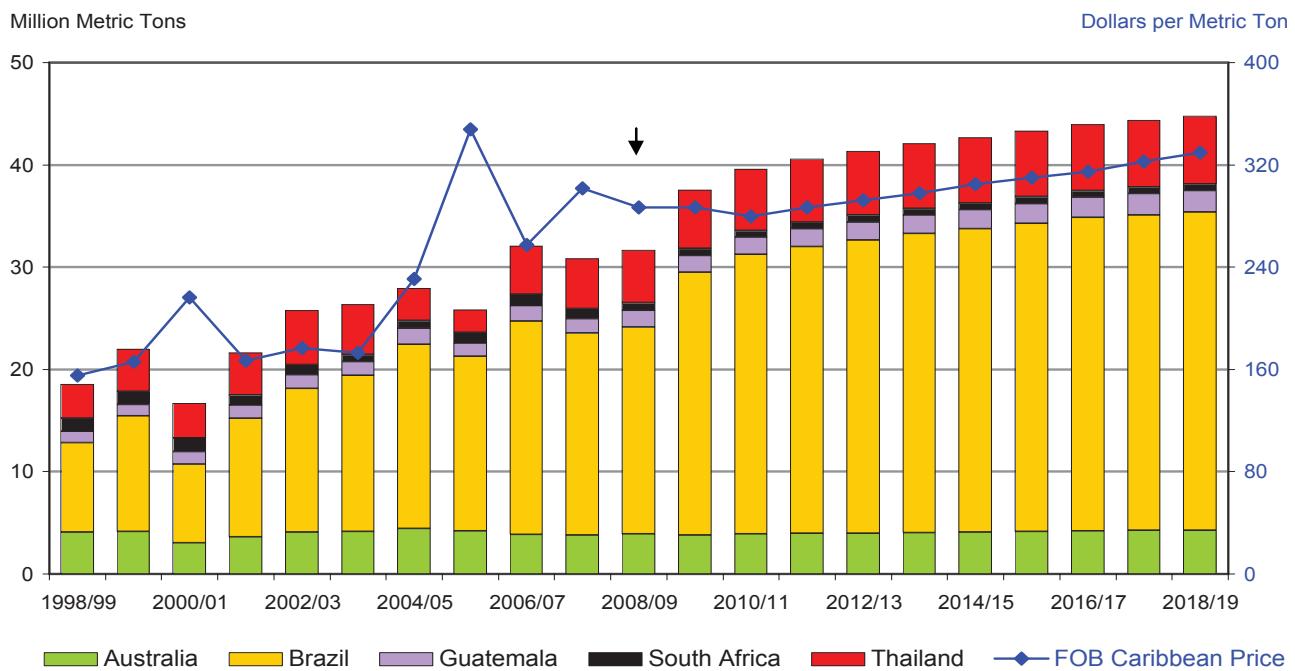
World Cotton Stocks-to-Use Ratio Versus Price

Dollars per Pound

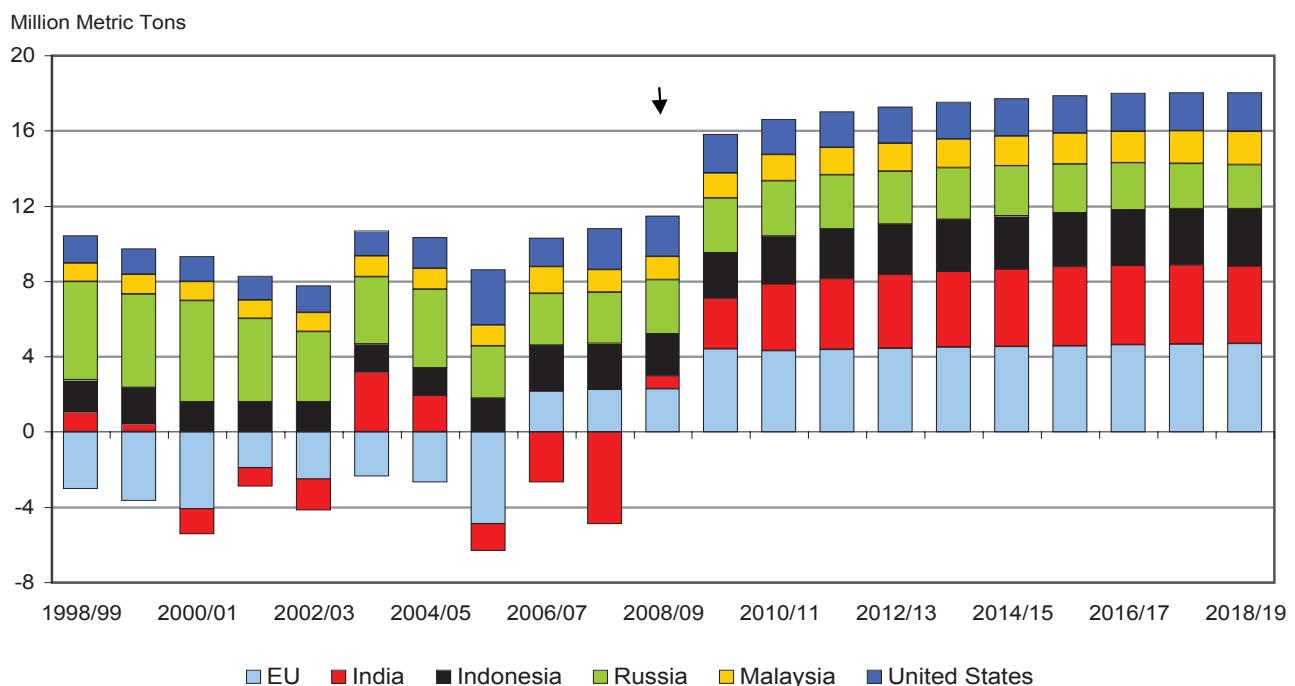
Percent



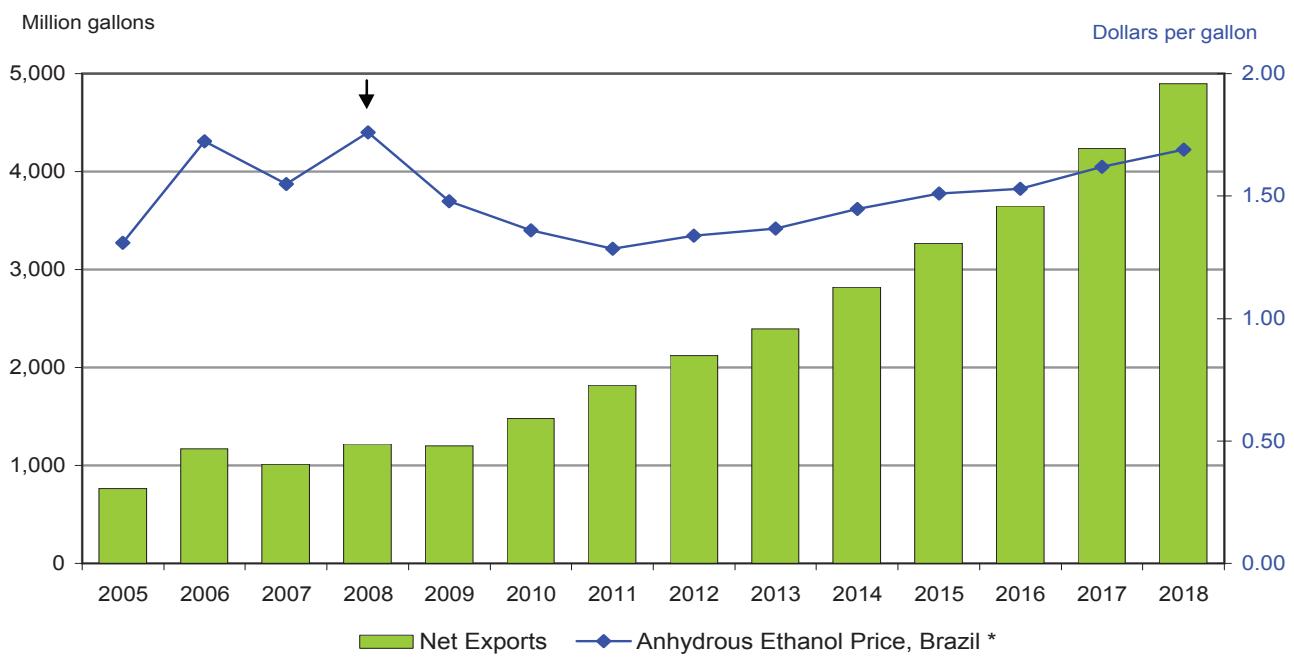
Major Sugar Net Exporters and World Raw Sugar Price



Major Sugar Net Importers

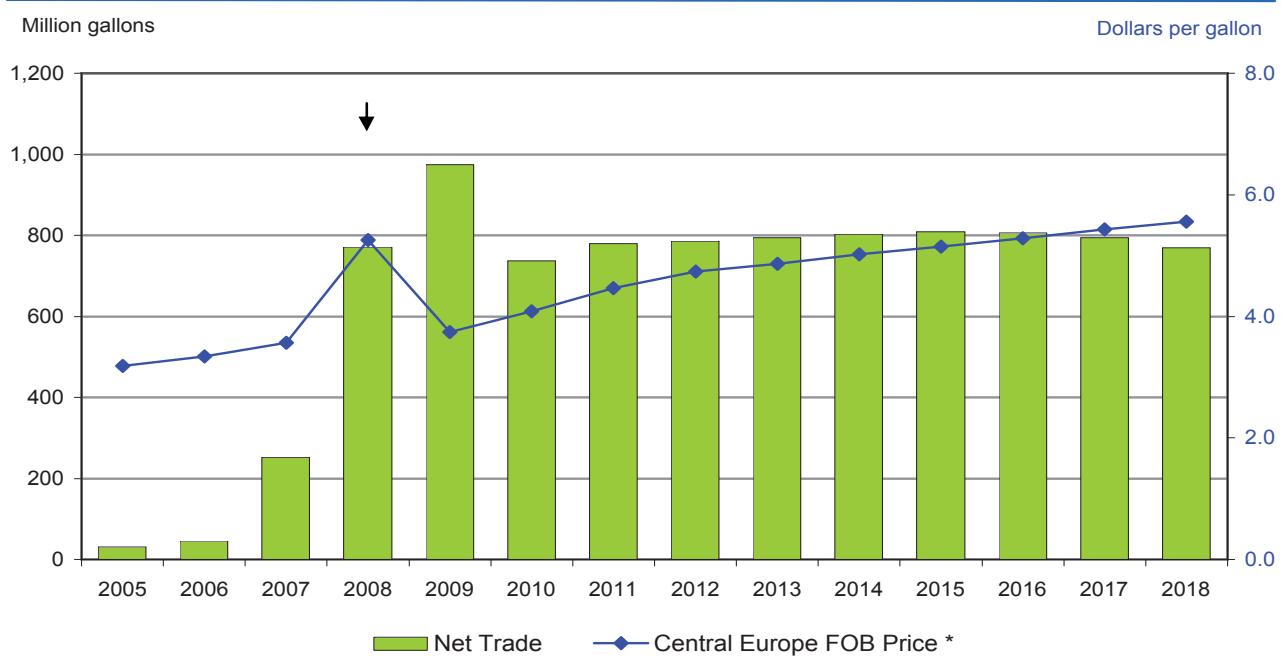


World Ethanol Price and Net Trade



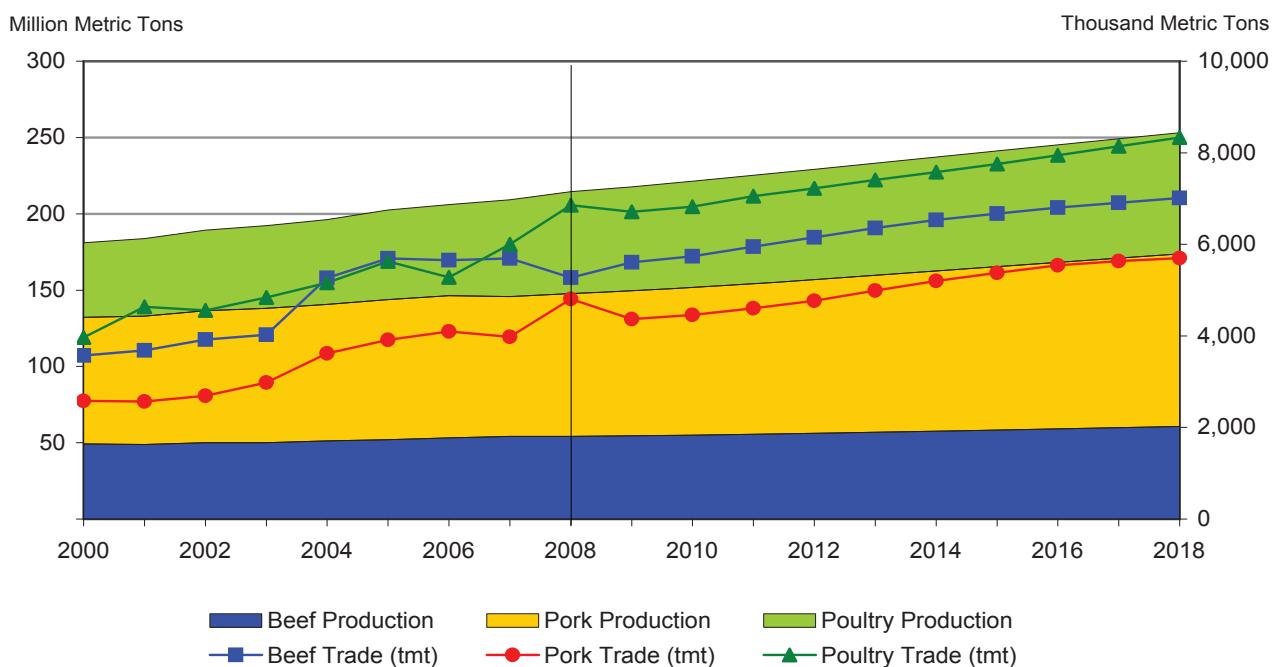
* Represents world ethanol price.

World Biodiesel Price and Net Trade

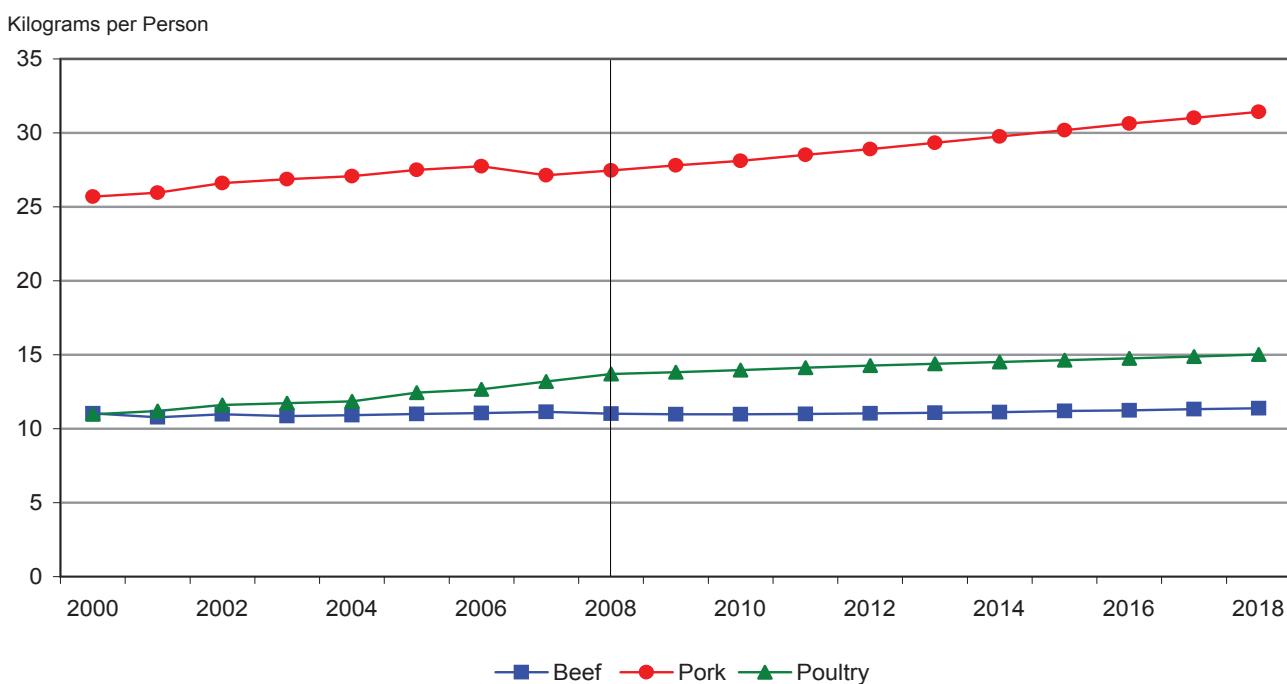


* Represents world biodiesel price.

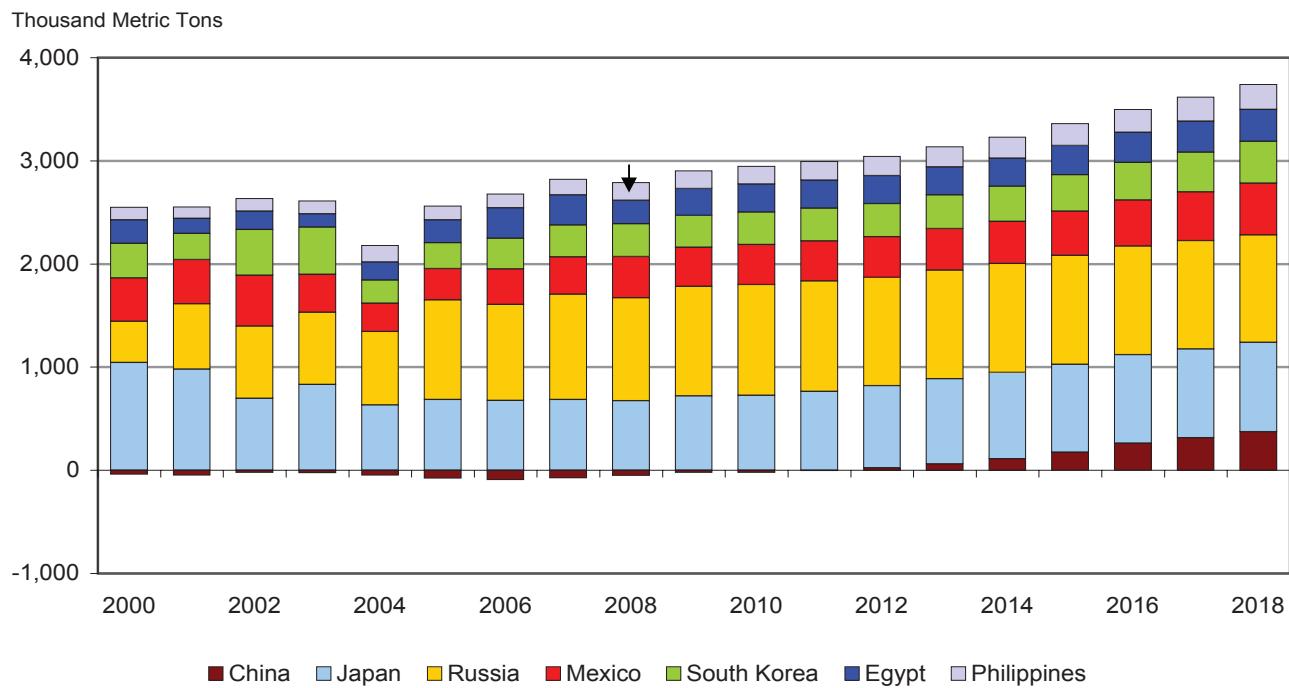
World Meat Production and Trade



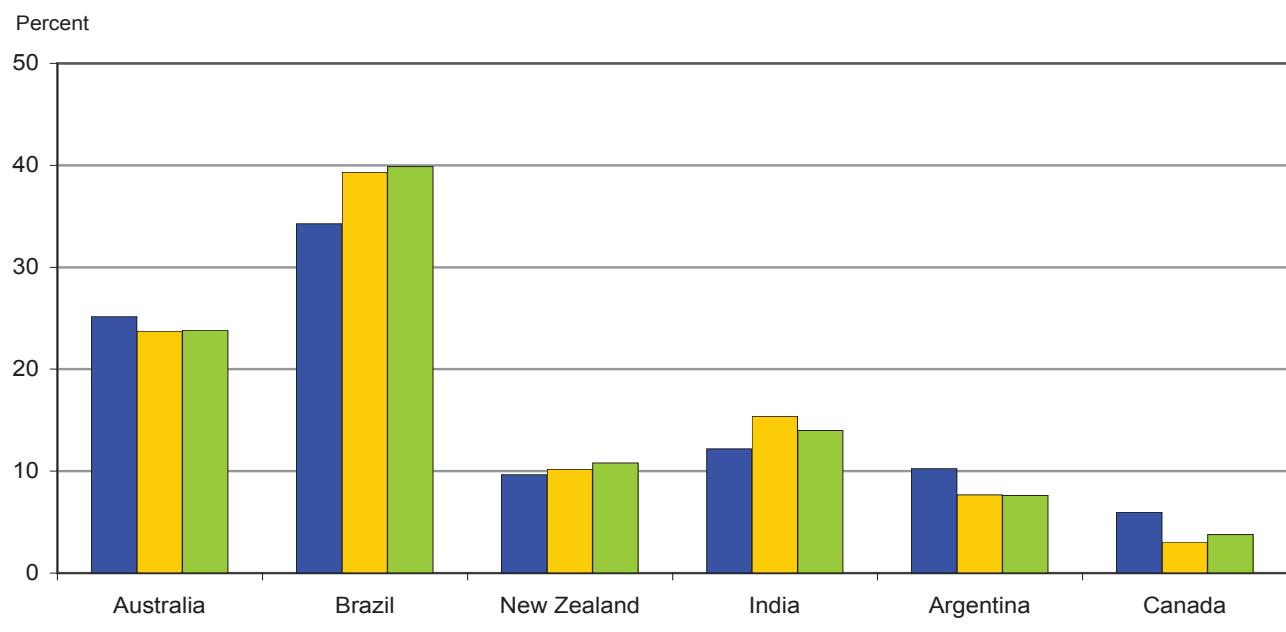
Per Capita Meat Consumption



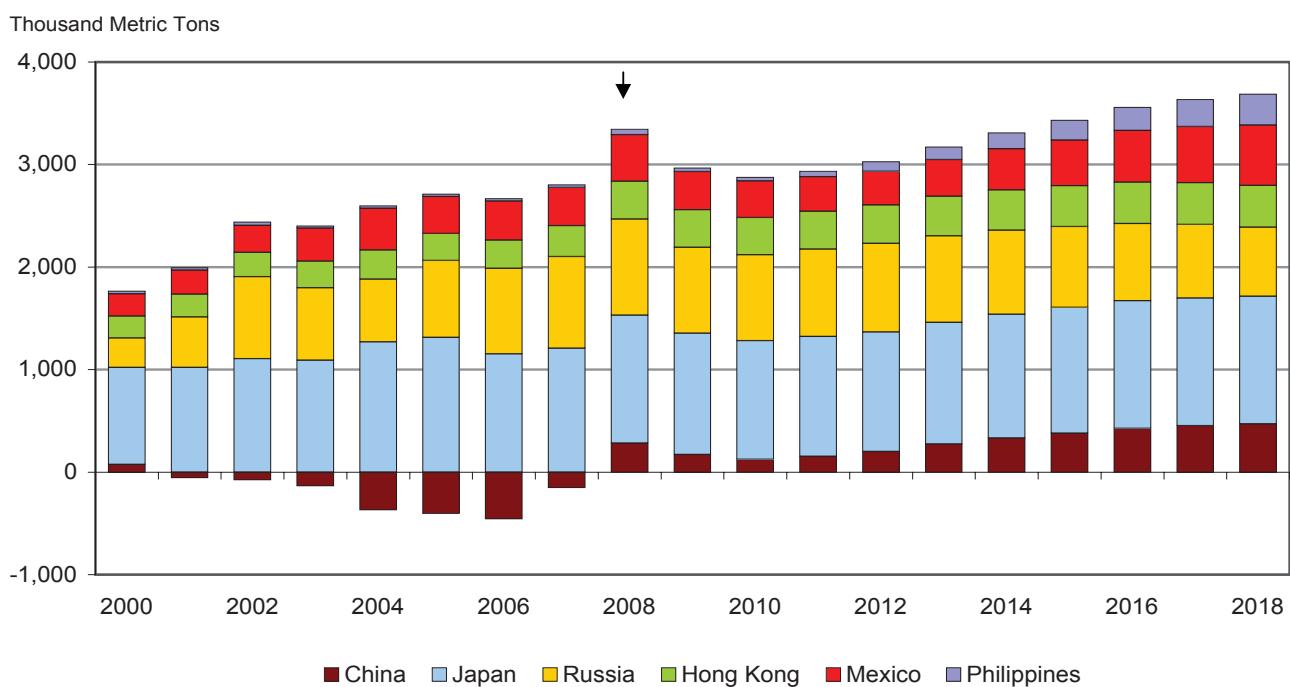
Major Beef Importing Countries



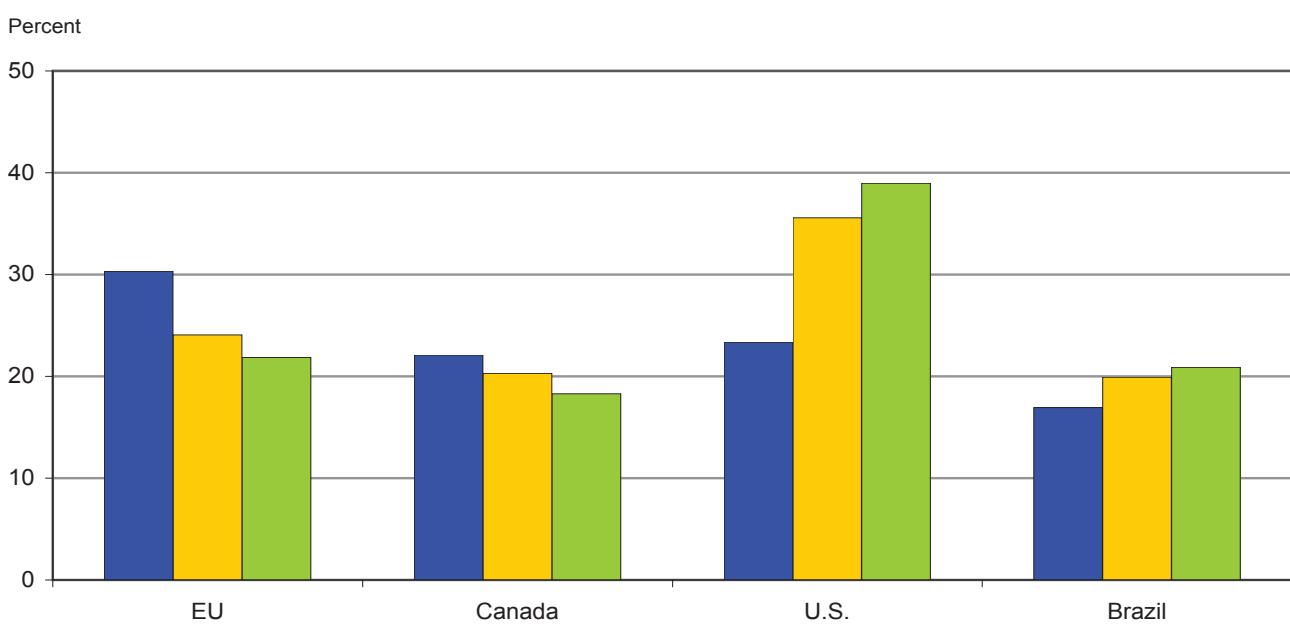
Beef Export Market Share*



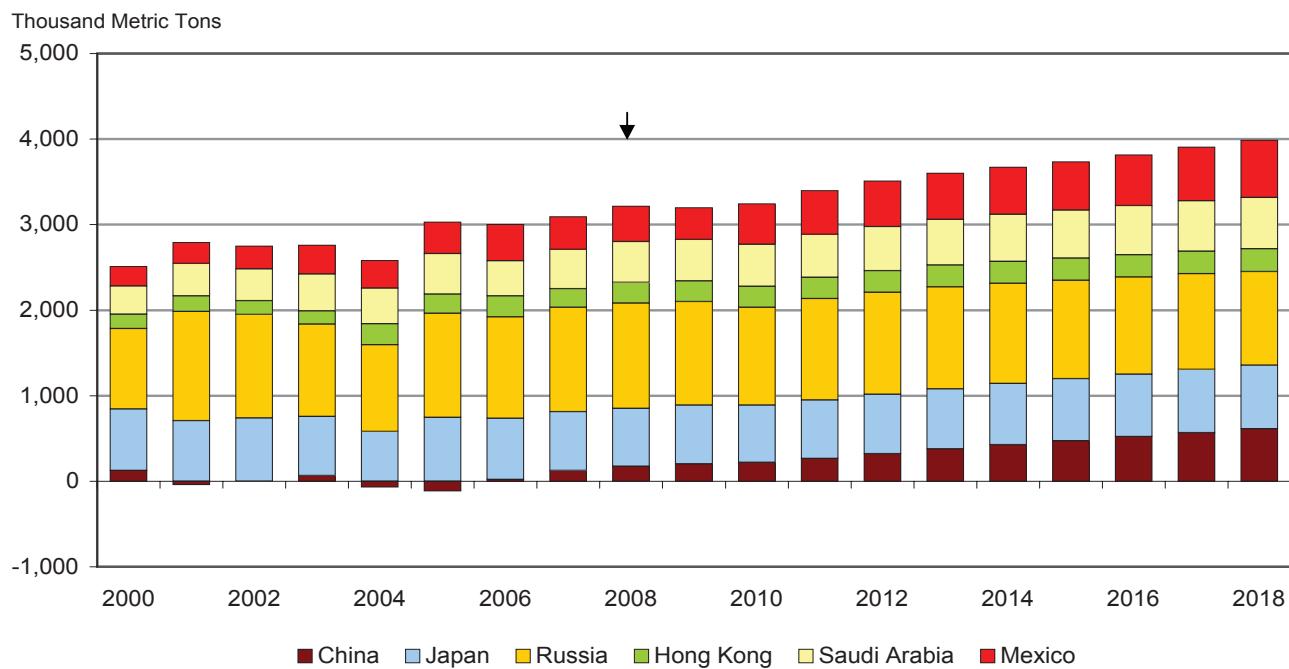
Major Pork Importing Countries



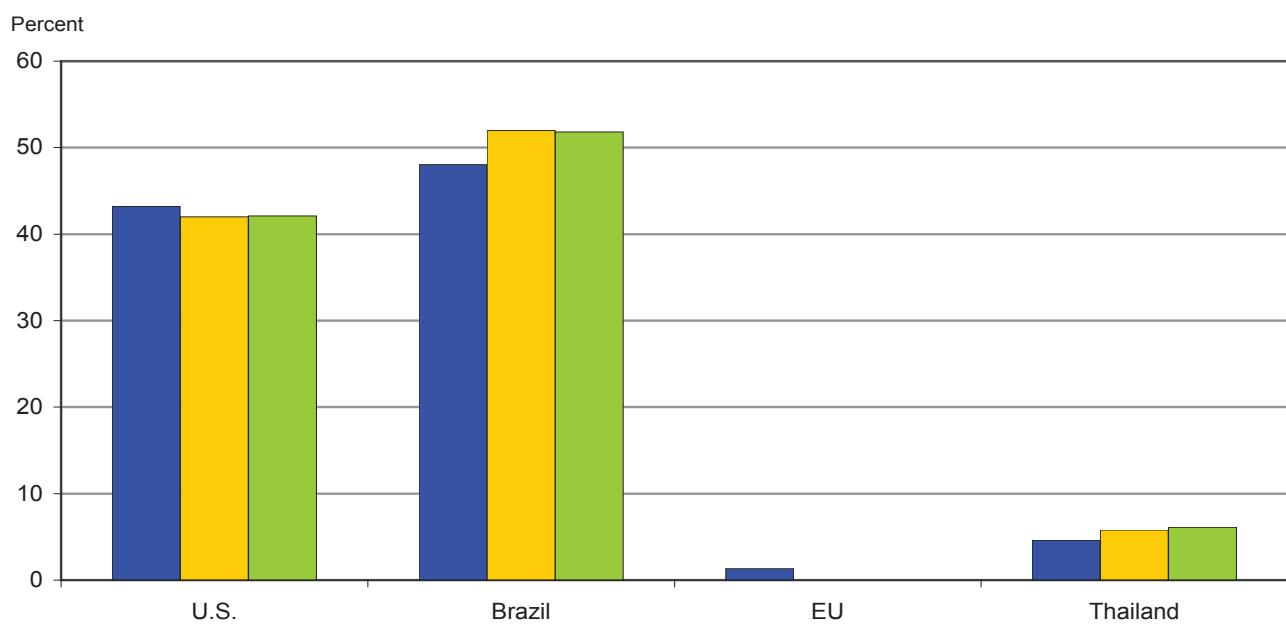
Pork Export Market Share*



Major Broiler Importing Countries



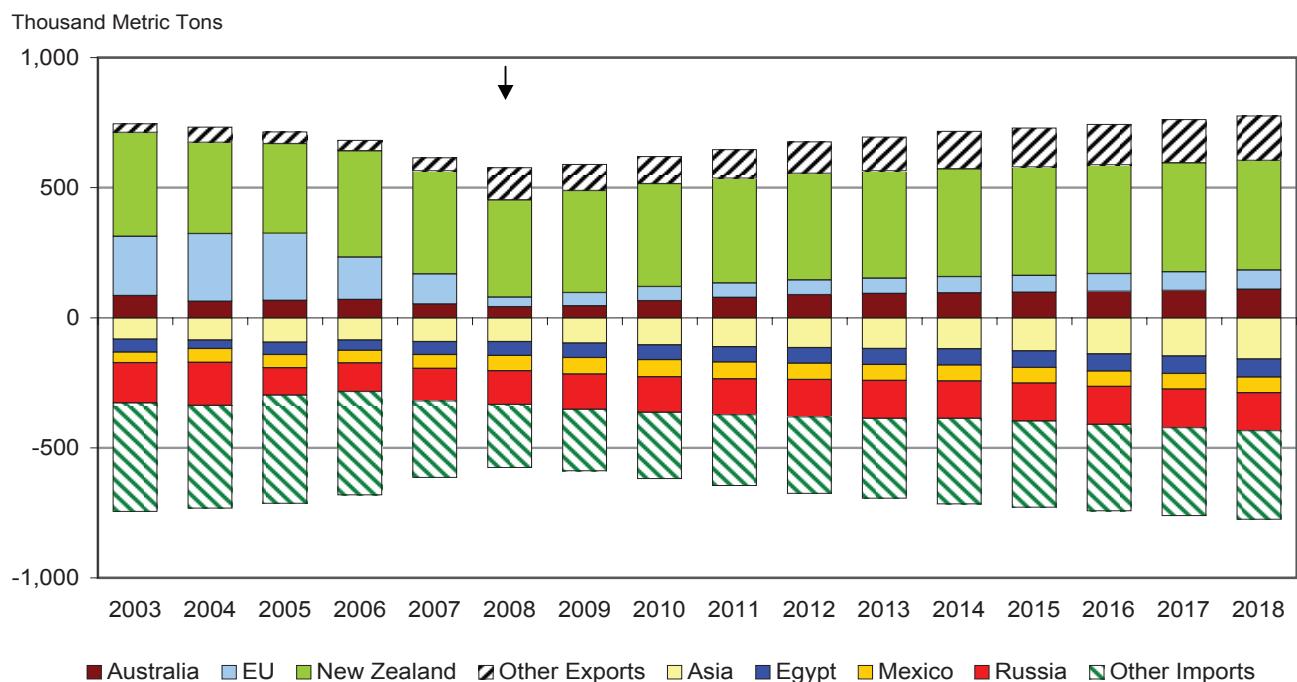
Broiler Export Market Share*



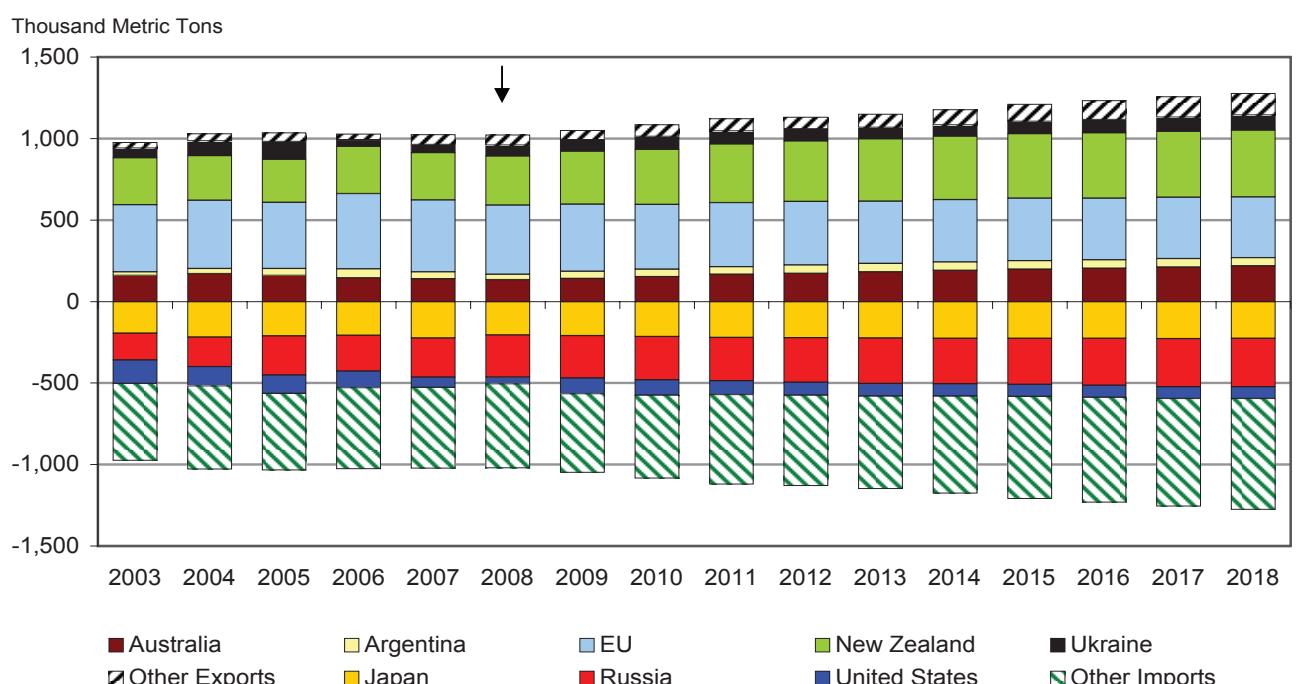
* Based on net exports.

■ 2004/2008 ■ 2009/2013 ■ 2014/2018

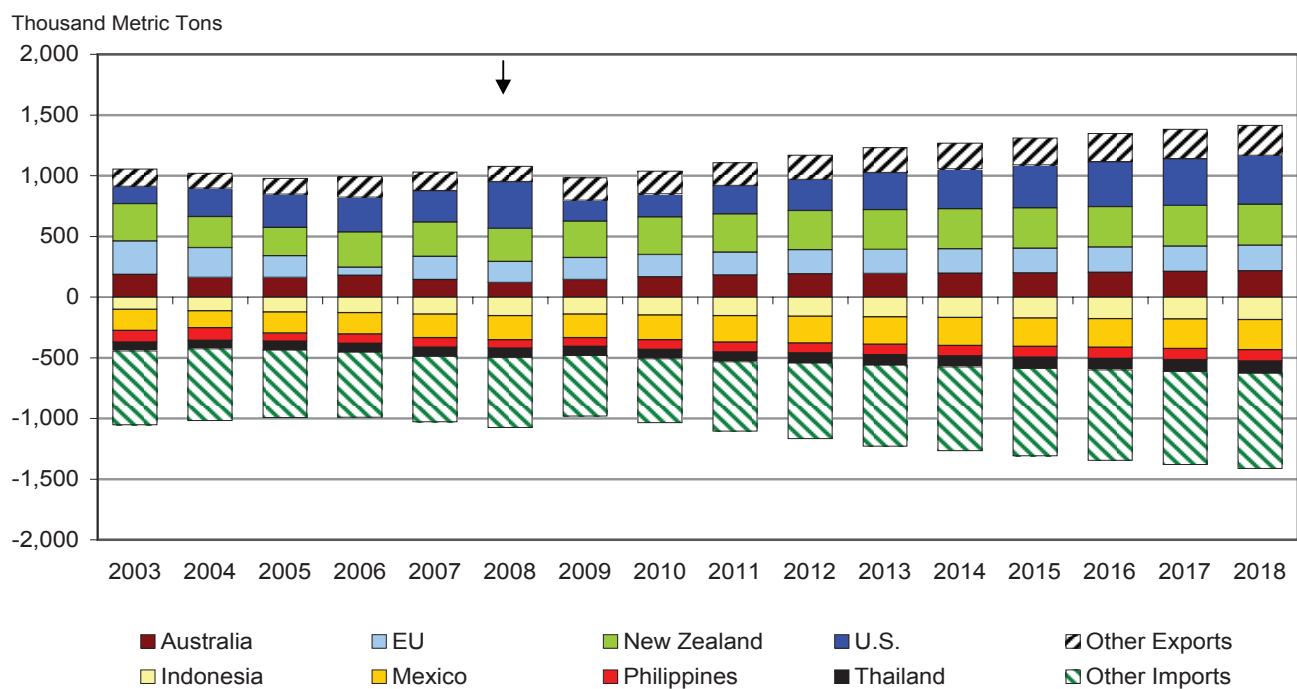
Butter Net Exports for Selected Countries



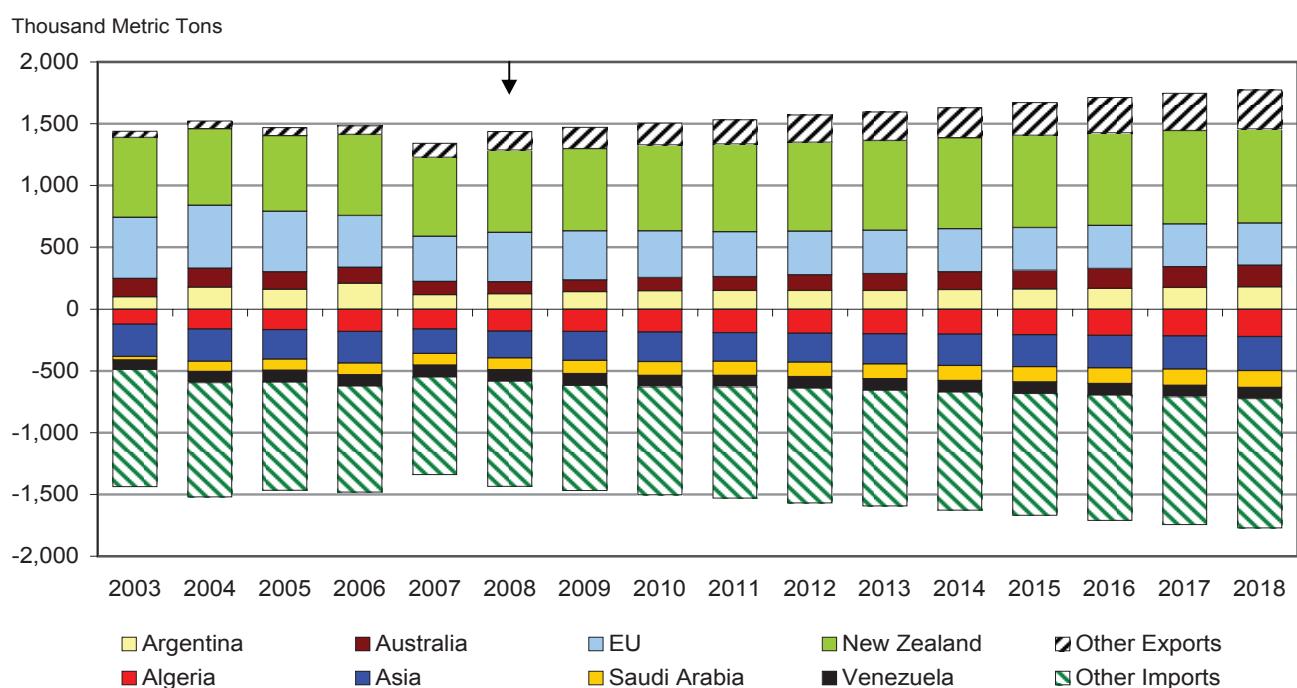
Cheese Net Exports for Selected Countries



NFD Trade for Selected Countries



WMP Trade for Selected Countries



Commodity Price Projections

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19				
Wheat					(U.S. Dollars per Metric Ton)										
U.S. FOB Gulf	289	225	224	231	235	241	247	251	252	253	253				
Canadian Wheat Board	306	240	244	253	258	263	266	268	269	270	271				
AWB Limited Export Quote	255	199	197	203	206	212	217	220	221	221	222				
European Union Market	285	207	210	212	209	212	211	211	209	207	205				
Rice															
FOB U.S. Houston	638	479	468	495	524	557	568	589	594	595	596				
FOB Bangkok 5% Broken	521	383	366	371	402	448	467	498	509	508	507				
FOB Bangkok 100% B Grade	550	403	385	390	422	465	485	516	528	527	526				
Corn															
FOB U.S. Gulf	194	185	184	191	192	199	202	204	203	203	202				
CIF Rotterdam	235	222	219	226	229	236	240	243	242	241	240				
Barley															
Canada Feed	179	162	164	170	175	179	184	186	188	189	191				
Sorghum															
FOB U.S. Gulf	182	179	179	186	189	196	199	202	203	205	206				
Soybeans															
Illinois Processor	368	346	348	358	366	375	383	389	391	392	394				
CIF Rotterdam	434	385	394	413	424	435	444	448	449	450	451				
Soybean Meal															
FOB Decatur 48%	328	294	282	278	280	285	290	293	292	291	290				
CIF Rotterdam	387	348	334	329	331	337	343	347	346	344	344				
Soybean Oil															
FOB Decatur	778	801	873	946	978	1,009	1,030	1,052	1,076	1,097	1,118				
FOB Rotterdam	856	881	959	1,038	1,072	1,105	1,128	1,151	1,177	1,200	1,222				
Rapeseed															
CIF Hamburg	463	420	460	466	466	473	475	477	479	476	475				
Cash Vancouver	406	369	403	408	408	415	416	418	420	417	416				
Rapeseed Meal															
FOB Hamburg	211	199	193	187	188	191	195	197	198	198	197				
Rapeseed Oil															
FOB Hamburg	927	975	1,101	1,155	1,184	1,218	1,237	1,256	1,282	1,295	1,311				
Sunflower															
CIF Lower Rhine	509	469	491	490	492	496	502	503	502	500	497				
Sunflower Meal															
CIF Rotterdam	210	204	198	191	189	189	191	190	186	181	177				
Sunflower Oil															
FOB NW Europe	999	1,029	1,097	1,140	1,172	1,205	1,236	1,263	1,292	1,316	1,340				
Palm Oil															
CIF Rotterdam	639	659	706	743	772	800	826	852	879	905	931				
Palm Kernel Meal															
CIF Rotterdam	165	153	151	148	148	149	149	148	145	141	137				
Palm Kernel Oil															
CIF Rotterdam	706	707	748	792	834	872	913	952	993	1,029	1,067				

Commodity Price Projections (continued)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Peanut, U.S. Runners 40/50											
CIF Rotterdam	1,377	1,238	1,250	1,283	1,299	1,315	1,332	1,343	1,351	1,355	1,358
Peanut Meal											
48/50%, Southeast Mills FOB	152	141	135	132	131	133	135	136	135	133	132
Peanut Oil											
CIF Rotterdam	1,349	1,429	1,510	1,596	1,642	1,675	1,703	1,726	1,750	1,767	1,786
Sugar											
FOB Caribbean (raw)	287	287	279	287	292	298	305	310	315	323	329
New York Spot (raw)	469	466	500	483	480	484	488	492	491	487	485
Cotton											
Cotlook A Index	1,345	1,441	1,537	1,551	1,569	1,601	1,630	1,650	1,673	1,694	1,712
U.S. Farm	1,083	1,141	1,231	1,259	1,277	1,303	1,326	1,338	1,353	1,365	1,377
Ethanol											
(U.S. Dollars per Gallon)											
Anhydrous Ethanol Price, Brazil **	1.76	1.48	1.36	1.29	1.34	1.37	1.45	1.51	1.53	1.62	1.69
Ethanol, FOB Omaha	2.47	1.68	1.75	1.81	1.91	1.99	2.10	2.19	2.17	2.06	2.00
Biodiesel											
Central Europe FOB Price **	5.25	3.74	4.08	4.47	4.73	4.86	5.02	5.14	5.28	5.43	5.56
Biodiesel Plant	4.64	3.45	3.53	3.84	4.12	4.24	4.33	4.41	4.49	4.59	4.69
Beef											
(U.S. Dollars per Metric Ton)											
Nebraska Direct Fed-Steer	2,034	1,976	2,094	2,171	2,222	2,243	2,258	2,257	2,262	2,263	2,267
U.S. Retail	9,534	9,343	9,833	10,440	10,920	11,256	11,419	11,424	11,437	11,454	11,467
Steer Price, Alberta	1,952	1,820	1,923	1,989	2,036	2,056	2,076	2,080	2,086	2,084	2,088
Australian Export (CIF U.S.)	2,510	2,537	2,584	2,596	2,610	2,618	2,625	2,625	2,627	2,628	2,630
Japanese Farm											
Dairy beef	8,071	9,469	9,474	10,067	10,374	10,606	10,840	11,024	11,163	11,277	11,396
Wagyu beef	18,851	17,444	16,708	17,117	17,124	17,071	17,148	17,229	17,299	17,368	17,458
Pork											
Barrows and Gilts National Base											
51-52% Lean Equivalent	1,055	1,078	1,169	1,213	1,240	1,208	1,190	1,183	1,176	1,204	1,238
U.S. Retail	6,474	6,528	6,876	7,311	7,589	7,552	7,507	7,452	7,425	7,569	7,828
Ontario Hogs Index	1,220	1,228	1,330	1,371	1,402	1,357	1,340	1,339	1,331	1,364	1,410
Japanese Wholesale	5,020	5,242	5,452	5,685	5,775	5,725	5,716	5,736	5,748	5,833	5,928
Chicken											
U.S. 12-City Wholesale	1,756	1,783	1,791	1,821	1,846	1,874	1,908	1,938	1,963	1,981	1,998
U.S. Retail	3,850	3,893	3,994	4,121	4,200	4,265	4,318	4,362	4,423	4,476	4,520
EU Producer	2,233	1,849	1,794	1,842	1,838	1,878	1,926	1,974	2,019	2,058	2,097
Japanese Wholesale	3,212	3,205	3,218	3,332	3,419	3,501	3,600	3,685	3,758	3,815	3,873
Turkey											
U.S. Wholesale	1,930	1,909	1,919	1,944	1,957	1,978	2,015	2,053	2,084	2,104	2,123
U.S. Retail	2,759	2,722	2,756	2,831	2,880	2,927	2,969	3,010	3,072	3,135	3,195

** Represents world price.

Commodity Price Projections (continued)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk	(U.S. Dollars per Metric Ton)										
U.S. All Milk	404	286	314	353	364	368	372	378	385	391	398
Canadian Fluid Milk	789	630	700	763	793	811	805	799	809	840	859
Australian Average Milk	432	249	240	261	272	276	282	289	294	298	301
Cheese											
FOB Northern Europe	4,963	2,480	2,356	2,619	2,748	2,802	2,879	2,969	3,027	3,078	3,121
U.S. Wholesale	4,091	3,021	3,325	3,679	3,763	3,765	3,791	3,841	3,896	3,949	4,002
Canadian Wholesale	9,877	8,537	8,142	9,048	9,494	9,682	9,947	10,259	10,460	10,635	10,784
Australian Export	4,681	2,402	2,289	2,529	2,648	2,698	2,768	2,851	2,905	2,951	2,991
Butter											
FOB Northern Europe	3,895	2,141	1,863	1,861	1,891	1,952	2,029	2,079	2,161	2,221	2,292
U.S. Wholesale	3,226	2,729	3,009	3,318	3,377	3,415	3,418	3,505	3,602	3,709	3,818
Australian Export	3,649	1,942	1,780	1,807	1,854	1,890	1,935	2,010	2,058	2,093	2,135
Nonfat Dry Milk											
FOB Northern Europe	3,246	2,103	1,975	2,110	2,254	2,280	2,328	2,402	2,467	2,526	2,572
U.S. Wholesale	2,865	1,868	1,876	2,145	2,258	2,310	2,389	2,438	2,485	2,531	2,577
Australian Export	3,330	1,967	1,814	1,975	2,147	2,178	2,235	2,324	2,401	2,472	2,526
Whole Milk Powder											
FOB Northern Europe	3,999	2,101	1,988	2,184	2,225	2,283	2,365	2,462	2,553	2,621	2,671
Australian Export	3,913	1,973	1,857	2,029	2,154	2,205	2,277	2,363	2,443	2,504	2,547

BASELINE ASSUMPTIONS

World Macroeconomic Assumptions

Macroeconomic projections used in the 2009 FAPRI baseline were obtained from IHS Global Insight. Recent market turbulence originating in the advanced economies spreads and slows down world economic expansion in 2009, producing an average annual rate of real GDP growth of 0.7%. However, significant recovery is projected for the following year, with long-term real GDP growth of 3.5% reached by 2011. The economic downturn is offset somewhat by weaker energy prices, providing some relief for consumer incomes. Downside risk in the outlook centers on how quickly confidence in the financial system is restored.

The U.S., where housing and financial market stress originated, shows the greatest impact, with weak economic growth in 2008 at 1.16% followed by a slowdown to -2.5% in 2009. With trade and financial sector linkages, the downturn affects other NAFTA countries, including Canada, with a growth rate of -1.5%, and Mexico, with a growth rate of -2.3%. Significant recovery is expected in 2010, with a positive long-run growth rate for the three countries over the rest of the decade. Price inflation is expected to remain moderate during the outlook period, at 1.8% per year in the U.S., 1.7% in Canada, and 3.7% in Mexico.

Even with the widespread slowdown, most of Latin America posts positive growth in 2009 at 1.2%, largely driven by strong domestic demand. Argentine real GDP grew by an average of 8.1% in the last six years and is expected to grow at 4.0% annually for the next 10 years. Brazil's growth in 2009 is projected at only 1.8%, as Brazil is more integrated into the world economy. After recovery, annual growth in Brazil is projected to average 3.9% per year. Price inflation is expected to be significant in Argentina and Venezuela. Elsewhere it hovers between 3.7% and 6.3%.

The short-term outlook for the Asian economies also shows the impact of the economic slowdown, with weak real growth of only 1.2% in 2009. A bright spot in the outlook is that after recovery, China, Vietnam, and India post solid growth of 8.6%, 7.7%, and 7.5%, respectively. In East Asia, after a slowdown to a rate of -2.7% and -1.8%, Japan and Taiwan return to modest growth of 1.6% and 4.5%, respectively. Inflation remains low in most of Asia.

The economic growth convergence between the EU-15 and the EU NMS continues, and all are affected by the slowdown. The EU-15 countries show -1.9% GDP growth, and the EU NMS post a weak growth of 0.6% in 2009. Growth is projected to taper for both in the coming decade. After depreciating 9.9% in 2009, most EU members experience real currency appreciation against the U.S. dollar, reducing their competitiveness by 0.9% annually on average in the later part of the decade.

The slowdown, accompanied by declining commodity prices, ends a decade-long run of high and sustained growth in the CIS. Russia and Ukraine grow by 3.3% annually. The ruble in Russia depreciates slightly while the hryvnia in Ukraine strengthens in real terms against the U.S. dollar after 2009. Price inflation is projected to be high in the short run.

Sound policy reforms, rising capital inflows, and prudent fiscal policy sustain a strong outlook in Africa, with GDP growth of 4.8%. Weaker crude prices affect oil exporting countries such as Angola and Nigeria, but they still have good growth prospects. Most currencies in the region depreciate relative to the U.S. dollar, and price inflation is moderate.

The general slowdown and low crude oil prices weaken the growth outlook in the Middle East relative to the strong performance in the last five years. The region posts a GDP growth rate of 3.8%. However, diversification initiatives that expanded investments in the non-oil sector dampen the effect of weak crude oil prices.

Real GDP Growth Projections

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Percentage Change from Previous Year)											
World	2.3	-0.7	2.6	3.8	3.7	3.5	3.4	3.4	3.4	3.4	3.4
Developed Market Economies	0.9	-2.2	1.5	2.7	2.5	2.3	2.3	2.3	2.3	2.3	2.3
Australia	2.3	0.8	2.2	4.2	3.3	3.2	3.0	3.0	3.0	3.0	2.9
Canada	0.7	-1.5	2.5	3.9	3.5	3.2	2.7	2.3	2.5	2.4	2.5
European Union	1.1	-1.9	0.3	1.8	2.3	2.2	2.1	2.1	2.0	2.0	2.0
Japan	-0.1	-2.2	2.0	3.2	2.0	1.5	1.4	1.3	1.1	0.8	0.7
New Zealand	-0.4	0.7	2.6	4.1	5.1	4.7	3.5	3.3	3.3	3.2	2.9
United States	1.2	-2.5	2.2	3.2	2.8	2.5	2.6	2.8	2.9	3.0	3.1
Developing Market Economies	5.5	2.6	4.8	5.8	6.0	5.8	5.5	5.4	5.3	5.2	5.1
Africa	5.3	3.0	3.9	5.1	5.4	5.3	5.2	5.1	5.0	5.0	4.9
Algeria	3.6	2.9	3.5	4.6	5.0	4.8	4.7	4.6	4.5	4.5	4.4
Egypt	7.2	2.6	3.0	4.8	4.5	4.2	4.2	4.3	4.3	4.3	4.3
Nigeria	6.0	4.7	5.0	6.8	7.5	7.3	6.6	6.0	5.7	5.6	5.4
South Africa	3.2	1.9	3.6	4.5	5.1	5.4	5.5	5.7	5.6	5.6	5.6
Tunisia	4.4	2.0	3.2	4.9	5.7	5.9	5.8	5.7	5.6	5.6	5.5
Asia	3.3	1.2	4.4	5.5	5.2	4.8	4.7	4.6	4.4	4.4	4.3
China	9.2	6.3	8.3	9.6	9.8	9.1	8.6	8.2	8.0	7.9	7.7
Hong Kong	2.2	-0.6	4.8	5.5	5.1	4.6	4.3	4.1	3.9	3.8	3.7
India	6.3	4.9	6.2	7.0	8.2	7.9	7.7	7.6	7.5	7.2	6.6
Indonesia	6.2	4.3	4.9	5.6	6.1	5.6	5.2	5.8	5.3	5.1	4.7
Malaysia	5.3	2.1	4.3	5.9	6.4	6.1	5.6	5.5	5.5	5.1	4.7
Pakistan	5.7	2.2	3.0	4.9	4.4	4.7	3.7	3.6	3.6	3.5	3.1
Philippines	3.9	1.9	3.8	4.4	4.9	4.7	4.7	4.9	4.9	4.8	4.8
South Korea	4.0	1.0	5.6	6.2	4.4	4.0	3.8	3.6	3.3	3.2	3.1
Taiwan	0.8	-1.8	4.3	5.6	5.3	4.9	4.6	4.4	4.1	3.8	3.7
Thailand	4.1	1.7	3.3	5.1	4.9	5.6	4.9	5.5	4.9	4.7	4.5
Vietnam	6.2	4.7	6.2	7.9	8.5	8.6	8.0	7.7	7.3	6.9	6.6
Commonwealth of Independent States	6.4	1.0	3.3	4.8	4.3	4.1	3.6	3.5	3.5	3.5	3.0
Russia	6.2	0.8	3.0	4.4	3.7	3.5	2.9	3.0	3.1	3.2	2.4
Ukraine	1.3	-7.8	-1.3	5.8	7.7	6.6	5.8	4.4	4.3	4.3	4.2
European Union-New Member States	4.2	0.6	1.9	3.7	4.4	4.0	3.9	3.6	3.4	3.3	3.2
Bulgaria	4.1	2.0	3.0	4.0	4.5	4.1	3.9	3.9	3.6	3.7	3.6
Czech Republic	5.4	1.0	2.5	4.1	4.1	3.9	3.9	3.8	3.8	3.8	3.8
Hungary	0.8	-1.6	0.8	2.5	3.9	3.9	5.3	4.4	3.0	2.9	2.5
Poland	4.7	1.5	2.2	3.7	4.5	3.9	3.6	3.4	3.3	3.2	3.2
Romania	7.8	0.4	2.0	4.7	4.6	3.8	3.6	3.6	3.4	3.3	3.2
Latin America	4.1	1.2	3.5	3.9	4.0	4.0	4.0	4.0	4.0	4.0	3.9
Argentina	5.6	3.2	3.1	3.6	3.8	4.0	4.1	4.1	4.1	4.1	4.1
Brazil	5.1	1.8	4.0	4.2	4.0	3.9	3.7	3.7	3.7	3.7	3.7
Colombia	3.4	1.5	4.0	6.5	6.8	6.4	5.9	5.6	5.4	5.2	5.2
Mexico	1.3	-2.3	2.3	3.0	3.3	3.4	3.7	3.8	3.8	3.7	3.7
Paraguay	5.4	1.6	2.8	2.5	2.3	2.2	2.2	2.2	2.2	2.1	2.1
Uruguay	9.2	4.2	5.8	5.6	5.5	5.4	5.2	5.0	4.8	4.7	4.5
Venezuela	5.6	2.3	3.9	3.7	3.8	4.0	4.0	3.9	3.6	3.5	3.5
Middle East	5.7	1.0	3.1	4.1	4.3	4.4	4.1	3.8	3.8	3.8	3.8
Iran	5.2	-0.6	2.5	3.7	4.2	4.4	3.9	3.5	3.6	3.6	3.6
Israel	4.0	-0.4	3.3	5.0	4.9	4.7	4.6	4.5	4.4	4.4	4.3
Saudi Arabia	5.8	1.7	3.0	4.4	4.4	4.2	3.7	3.2	3.2	3.4	3.5
Price											
Refiner Acquisition Cost of Crude Oil	94.7	31.5	47.4	71.9	80.8	86.4	86.0	80.7	79.3	79.3	79.3
(Dollars per Barrel)											

Source: International Financial Statistics December 2008 and projections after 2008 are from IHS Global Insight.

GDP Deflator Growth Projections

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Developed Market Economies		(Percentage Change from Previous Year)									
Australia	6.6	2.8	2.0	2.1	1.4	2.7	3.1	2.5	2.7	2.7	2.6
Canada	3.8	-0.4	0.2	2.2	2.1	2.0	1.9	1.7	1.8	1.8	1.8
European Union	1.6	-0.8	3.4	3.7	3.2	2.3	2.2	2.2	2.2	2.1	2.1
Japan	-1.0	0.4	-0.2	0.5	1.0	1.2	1.3	1.3	1.5	1.6	1.6
New Zealand	2.6	0.1	1.7	2.6	2.1	2.5	2.5	2.3	2.3	2.3	2.2
United States	2.2	1.2	1.2	1.6	1.8	2.1	2.3	2.1	2.0	1.9	1.9
Developing Market Economies											
Africa											
Algeria	9.7	5.6	5.1	4.3	3.8	4.0	3.4	2.8	2.5	2.3	2.2
Egypt	12.1	7.1	5.2	2.6	2.9	3.4	3.4	3.2	3.3	3.2	3.2
Nigeria	20.4	-25.6	27.0	25.3	10.5	6.4	3.6	0.0	4.4	4.9	7.6
South Africa	11.0	6.5	6.8	6.6	6.3	6.3	5.7	6.1	5.9	5.4	5.0
Tunisia	7.3	5.3	4.4	4.2	3.3	2.9	2.6	2.3	1.9	1.8	1.6
Asia											
China	6.6	2.5	2.3	3.3	2.7	3.0	3.2	3.4	3.7	3.7	3.6
Hong Kong	2.0	1.0	1.4	2.3	2.9	2.7	2.5	2.5	2.4	2.3	2.2
India	8.3	4.8	5.0	5.0	5.4	6.6	6.6	5.7	5.5	5.4	4.8
Indonesia	18.3	4.9	3.5	3.7	3.7	4.0	3.9	4.0	4.0	3.8	3.6
Malaysia	12.1	3.6	3.9	4.0	3.9	3.7	3.3	3.5	3.2	2.9	2.7
Pakistan	20.6	14.2	7.8	7.5	7.1	7.5	7.6	7.5	7.6	7.6	7.4
Philippines	2.9	7.7	4.6	4.8	4.9	5.2	4.3	4.4	4.6	4.6	4.3
South Korea	4.0	7.6	3.0	2.1	1.7	2.4	2.1	2.5	2.4	2.4	2.5
Taiwan	-2.7	-0.5	1.0	1.4	2.1	2.1	2.3	2.3	2.7	2.6	2.6
Thailand	5.2	3.2	3.6	3.7	3.8	3.9	4.0	4.1	4.2	3.9	3.8
Vietnam	15.1	7.8	6.5	6.7	5.7	5.4	5.1	5.1	5.0	4.7	4.6
Commonwealth of Independent States											
Russia	22.5	20.5	19.0	17.8	6.7	5.8	5.1	4.5	4.2	3.7	3.4
Ukraine	26.1	6.1	7.4	7.6	8.5	8.3	7.5	6.8	6.7	6.0	5.4
European Union-New Member States											
Bulgaria	11.9	5.5	4.8	2.7	2.2	1.5	1.3	1.3	1.2	1.2	1.2
Czech Republic	1.5	1.6	2.8	2.8	2.4	2.1	2.1	2.2	2.3	2.5	2.6
Hungary	3.4	3.4	3.6	4.0	2.9	2.4	2.8	2.7	2.6	2.5	2.4
Poland	3.1	0.9	1.9	2.7	2.6	2.6	2.5	2.5	2.2	2.2	2.1
Romania	14.9	7.9	6.0	5.0	2.4	2.0	2.2	2.2	2.1	2.1	2.0
Latin America											
Argentina	17.7	14.6	11.4	10.0	8.4	8.2	8.0	7.8	7.7	7.5	7.3
Brazil	5.4	4.3	4.1	3.7	3.7	3.7	3.6	3.6	3.6	3.4	3.4
Colombia	6.9	4.8	4.4	4.5	4.6	4.9	4.9	4.9	4.8	4.8	4.7
Mexico	6.9	4.1	3.4	3.4	3.3	3.3	3.2	3.3	3.4	3.4	3.4
Paraguay	5.4	5.3	5.1	5.0	5.0	4.6	4.6	4.6	4.6	4.6	4.6
Uruguay	8.0	8.0	6.9	6.8	6.6	6.1	5.7	5.5	5.2	5.1	5.0
Venezuela	19.2	16.2	17.4	11.6	11.3	10.0	9.4	8.7	7.4	6.3	5.7
Middle East											
Iran	27.0	-11.1	34.8	31.6	17.4	16.0	15.3	14.8	14.3	14.4	14.3
Israel	1.7	1.5	2.0	1.9	3.0	2.2	2.5	3.1	2.7	3.0	3.1
Saudi Arabia	10.3	-12.0	8.7	5.0	4.1	3.3	2.7	2.3	1.9	2.2	2.3

Source: International Financial Statistics December 2008 and projections after 2008 are from IHS Global Insight.

Exchange Rate* Growth Projections

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Developed Market Economies		(Percentage Change from Previous Year)										
Australia	-5.5	18.0	-0.5	-5.9	-1.7	0.2	0.2	0.2	0.2	0.2	0.2	
Canada	-3.6	15.9	-8.3	-6.6	-2.0	-0.2	2.6	2.7	0.7	-1.9	-0.2	
European Union ‡	-6.4	9.9	0.0	-2.4	1.3	-0.7	-1.2	-1.4	-1.4	-1.4	-1.4	
Japan	-10.6	-10.2	0.1	-3.7	-0.9	-0.4	-0.2	-0.2	-0.1	0.0	0.0	
New Zealand	-0.7	19.1	-2.1	-3.0	-0.3	0.6	0.7	0.7	0.7	0.7	0.6	
Developing Market Economies												
Africa												
Algeria	-8.2	12.3	1.6	2.8	2.8	2.3	1.4	0.8	0.4	0.2	0.2	
Egypt	-3.2	2.7	2.2	2.0	2.3	2.5	2.4	2.4	2.3	1.8	1.6	
Nigeria	-6.3	2.5	8.2	3.9	4.0	6.6	7.0	2.9	1.9	2.0	7.3	
South Africa	12.2	11.7	-1.6	4.9	4.4	4.1	3.9	3.3	3.2	3.2	3.2	
Tunisia	-5.9	6.7	-0.9	-1.7	-0.4	-0.4	-0.3	-0.8	-1.4	-1.4	-1.4	
Asia												
China	-8.4	-2.4	-1.7	-3.0	-3.9	-3.6	-2.2	-1.1	-0.8	-0.7	0.0	
Hong Kong	-0.1	-0.4	0.2	-0.1	0.0	0.1	-0.1	-0.1	0.1	0.0	-0.1	
India	2.6	15.3	1.0	-0.4	0.5	1.7	1.3	1.1	1.1	1.0	0.9	
Indonesia	1.9	10.6	-2.3	-3.1	-0.4	0.2	0.6	0.8	0.8	0.9	0.8	
Malaysia	-4.4	4.0	-1.8	-1.1	-0.8	-0.6	-0.4	-0.3	-0.2	-0.1	-0.1	
Pakistan	12.9	11.9	2.7	3.8	3.8	4.7	4.7	4.7	4.7	4.7	4.6	
Philippines	-5.4	7.0	0.1	0.8	1.0	1.4	1.4	1.4	1.5	1.5	1.4	
South Korea	12.5	11.9	-17.6	-3.5	-0.3	0.1	0.2	0.2	0.2	0.2	0.1	
Taiwan	0.0	6.7	-3.9	-4.4	-5.1	-2.6	-2.4	-2.2	-2.4	-1.2	-1.2	
Thailand	-4.5	4.9	1.4	1.0	3.0	1.0	1.1	1.1	1.2	1.3	1.2	
Vietnam	1.8	3.7	-1.4	-2.1	5.0	1.6	1.9	1.9	1.9	1.8	1.7	
Commonwealth of Independent States												
Russia	-6.0	31.0	13.2	4.7	2.5	2.6	2.4	2.1	1.6	1.4	1.2	
Ukraine	-1.7	59.6	-3.0	-2.0	-2.3	-2.3	-2.4	-2.4	-1.1	-1.0	-0.1	
European Union-New Member States												
Bulgaria	-8.7	10.2	-0.2	-2.4	1.3	-0.7	-1.2	-1.4	-1.4	-1.4	-1.4	
Czech Republic	-18.4	9.9	0.0	-2.4	1.3	-0.7	-1.2	-1.4	-1.4	-1.4	-1.4	
Hungary	-9.6	9.9	0.0	-2.4	1.3	-0.7	-1.2	-1.4	-1.4	-1.4	-1.4	
Poland	-18.4	9.9	0.0	-2.4	1.3	-0.7	-1.2	-1.4	-1.4	-1.4	-1.4	
Romania	-0.1	16.2	-7.5	-5.2	-3.8	0.2	-1.2	-1.4	-1.4	-1.4	-1.4	
Latin America												
Argentina	0.2	18.9	9.4	5.0	4.3	4.4	4.5	4.1	4.2	5.2	4.9	
Brazil	-7.2	32.2	6.6	9.2	3.8	3.8	3.8	3.7	3.7	3.7	3.7	
Colombia	-8.5	3.9	-0.2	-3.8	-1.1	3.3	4.6	5.5	5.4	5.3	5.3	
Mexico	-2.0	23.7	-0.1	1.0	1.8	1.6	2.2	2.0	0.2	0.2	0.2	
Paraguay	-15.3	24.1	-3.0	0.5	-1.5	3.0	5.7	5.4	5.4	5.4	5.4	
Uruguay	-13.4	17.0	4.1	3.8	2.5	2.5	2.6	2.6	2.6	2.7	2.7	
Venezuela	0.0	30.5	14.7	14.5	12.4	11.1	10.0	9.7	10.2	9.8	9.5	
Middle East												
Iran	0.6	6.2	1.3	2.2	5.1	40.1	11.7	11.6	11.5	11.3	11.2	
Israel	-14.1	8.9	-0.9	-1.4	-1.7	0.1	2.9	2.5	2.3	2.3	2.3	
Saudi Arabia	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Source: International Financial Statistics December 2008 and projections after 2008 are from IHS Global Insight.

* In local currency per U.S. dollar.

‡ Not all European Union members have adopted the euro.

Population Growth Projections

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Percentage Change from Previous Year)											
World	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1
Developed Market Economies											
Australia	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.0
Canada	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7
European Union	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Japan	-0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.5	-0.5
New Zealand	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8
United States	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8
Developing Market Economies											
Africa	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.0
Algeria	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.0
Egypt	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4
Nigeria	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.7
South Africa	0.9	0.6	0.1	-0.2	-0.4	-0.4	-0.5	-0.2	0.1	0.1	0.1
Tunisia	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.8
Asia	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0
China	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5
Hong Kong	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3
India	1.6	1.6	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4
Indonesia	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9
Malaysia	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6
Pakistan	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.6
Philippines	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7
South Korea	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
Taiwan	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Thailand	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4
Vietnam	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9
Commonwealth of Independent States	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Russia	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6
Ukraine	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7
European Union-New Member States	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2
Bulgaria	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.9	-0.9
Czech Republic	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2
Hungary	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
Poland	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2
Romania	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3
Latin America	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1
Argentina	1.1	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9
Brazil	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	0.9
Colombia	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2
Mexico	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0
Paraguay	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.2	2.2	2.2	2.2
Uruguay	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Venezuela	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.3
Middle East	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.5
Iran	0.7	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Israel	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.3
Saudi Arabia	2.0	1.9	1.8	1.7	1.6	1.5	1.5	1.4	1.3	1.3	1.2

Source: U.S. Bureau of the Census International Data Base, June 18, 2008.

U.S. Program Provisions

The baseline assumes provisions of the current farm bill, the Food, Conservation, and Energy Act (FCEA) of 2008.

Farm bill provisions set to expire under current law are assumed to continue throughout the baseline. For several commodities, target prices and loan rates adjust in 2010. The percentage of base area eligible for direct payments adjusts in 2009 and 2012.

The baseline incorporates the Energy Independence and Security Act (EISA) of 2007, which was signed into law in December 2007. The EISA mandates minimum levels of biofuel use in different categories. For example, there are separate mandates for biodiesel, cellulosic ethanol, and other “advanced biofuels,” as well as an overall biofuel use mandate.

There remains considerable uncertainty about how terms of the EISA will be implemented. The baseline assumes that various waiver authorities are not utilized, with one exception. In the case of cellulosic ethanol, mandated use levels are not met because of insufficient supplies, and credits are offered equal to \$3.00 per gallon minus the wholesale price of gasoline or \$0.25 per gallon, adjusted for inflation, whichever is greater.

The baseline assumes biofuel tax credits and tariffs are extended when they would otherwise expire (at the end of 2009 in the case of the biodiesel tax credit, and at the end of 2010 in the case of the ethanol tax credit and specific tariff).

The statutory maximum enrollment in the CRP is reduced from 39.2 million acres to 32 million acres in 2010. Many CRP contracts are set to expire over the next several years.

The baseline assumes that some of the expiring contracts are not renewed, so total CRP area falls from 34.7 million acres in 2008 to 30.0 million acres in 2012.

U.S. Program Provisions

World Agricultural Policy Assumptions

The 2008 world policy environment included the continuing implementation of reforms in the CAP. In particular, the sugar reforms of the EU Common Market Organization were adopted in 2006. The reforms cover a transitional period from 2006/07 to 2009/10. One of the main goals of the reforms is to reduce sugar production by 6 million tons, white value, through voluntary quota reductions and through lower intervention prices. The 6-million-ton reduction in quota sugar is projected to be reached by 2009/10. Beet production over the quota is expected to be used in ethanol production.

To meet growing demand both within the European Union and on global markets, the European Commission decided to increase the milk quota by 2% beginning April 1, 2008. The increase, a total of 2.84 mmt, would apply on an equal basis to the 27 member states and would be on top of the 0.5% quota increase already scheduled for most of the EU-15 member states.

In rice, the intervention price mechanism is abolished for 2009/10.

Over the last four years, SPS issues—BSE in North America, AI in Asia and Europe, FMD in South America, and blue ear disease in China—have affected the world meat market. These issues will remain a factor in the short-run outlook as the market recovers from these shocks.

Major energy policies included in the baseline are the U.S. Energy Independence and Security Act (EISA) of 2007, the 2003 Renewable Fuels Directive of the EU, and fuel mandates and regulations for Argentina's biodiesel (mandating a 5% blend by 2010), Brazil's biodiesel fuel research program (mandating a 2% biodiesel blend by 2008, a 3% blend for 2009, and a 5% blend by 2010, and tax incentives for biodiesel production), and Indonesia's newly implemented biodiesel consumption mandate. The baseline also includes biofuel policies such as the producer incentives in Canada.

Under the Uruguay Round Agreement on Agriculture, the commitment schedule of developed countries for export subsidy limits, TRQ expansion, import duty reduction, and domestic support reduction are fixed at 2000 levels. Developing countries had their last reform installment implemented in 2004. All of these commitments are held fixed through 2018/19. The 2009 outlook does not include any conjecture on policy changes arising from the Doha Round. On February 2008, Ukraine officially acceded as a full member of the WTO.

Two major policies in the U.S. are incorporated in this baseline: the Food, Conservation, and Energy Act (FCEA)—the 2008 farm bill—and the EISA—the 2007 energy bill. Provisions set to expire under these laws are assumed to continue throughout the baseline. Although implementation of the COOL requirements has commenced, uncertainties still remain. For details about coverage of U.S. policy assumptions, see the U.S. Program Provisions section on pages 56-57.

Agricultural Policy Assumptions for Crops

Agricultural Policy Assumptions for Crops (continued)

Agricultural Policy Assumptions for Crops (continued)

Agricultural Policy Assumptions for Crops (continued)

Agricultural Policy Assumptions for Crops (continued)

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Export Tax											
Argentina											
(Percent)											
Wheat	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
Corn	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Sorghum	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Barley	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Soybean	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
Soybean Meal	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Soybean Oil	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Sunflower	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Sunflower Meal	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Sunflower Oil	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Peanuts	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
Peanut Meal	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Peanut Oil	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Sugar	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
China											
Wheat	20	20	20	20	20	20	20	20	20	20	20
Corn	5	5	5	5	5	5	5	5	5	5	5
Barley	20	20	20	20	20	20	20	20	20	20	20
CIS											
Russia											
Wheat	0	0	0	0	0	0	0	0	0	0	0
Barley	0	0	0	0	0	0	0	0	0	0	0
Rapeseed	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Sunflower	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Ukraine											
Sunflower	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Indonesia											
Palm Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Domestic Value Added Tax											
Brazil											
Soybean	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Soybean Meal	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Soybean Oil	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
China											
Value Added Tax											
Oilseeds and Products	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0

Agricultural Policy Assumptions for Biofuels

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Canada											
Ethanol, Energy Bill mandate	3.00	4.50	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
(Percent)											
Tariff											
Imports from Brazil	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Imports from U.S.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incentive to Producers	0.10	0.10	0.10	0.08	0.07	0.06	0.05	0.04	0.04	0.04	0.04
Brazil											
Mandated Ethanol Mix in Gasoline	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
EU											
Import Duty											
Duty for Denatured	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Duty for Undenatured	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Biofuel Directive Target	4.25	5.00	5.75	6.18	6.60	7.03	7.45	7.88	8.30	8.73	9.15

Agricultural Policy Assumptions for Livestock and Dairy Products

Agricultural Policy Assumptions for Livestock and Dairy Products (continued)

Agricultural Policy Assumptions for Livestock and Dairy Products (continued)

Agricultural Policy Assumptions for Livestock and Dairy Products (continued)

Agricultural Policy Assumptions for Livestock and Dairy Products (continued)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Maximum Subsidized Export Commitment											
Brazil											
Beef	92	92	92	92	92	92	92	92	92	92	92
Poultry	84	84	84	84	84	84	84	84	84	84	84
European Union											
Beef	924	924	924	924	924	924	924	924	924	924	924
Pork	558	558	558	558	558	558	558	558	558	558	558
Poultry	324	324	324	324	324	324	324	324	324	324	324
Butter	433	433	433	433	433	433	433	433	433	433	433
Cheese	346	346	346	346	346	346	346	346	346	346	346
Nonfat Dry Milk	273	273	273	273	273	273	273	273	273	273	273
Other Milk Products	958	958	958	958	958	958	958	958	958	958	958
South Africa											
Beef	13	13	13	13	13	13	13	13	13	13	13
Poultry	1	1	1	1	1	1	1	1	1	1	1

Other Agricultural Policy Assumptions

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Summary Table of EU CAP Reform and Enlargement											
Decoupling											
Crops	93	93	93	93	93	93	93	93	93	93	93
Livestock											
Cattle	78	78	78	78	78	78	78	78	78	78	78
Sheep	73	73	73	73	73	73	73	73	73	73	73
Dairy	100	100	100	100	100	100	100	100	100	100	100
Modulation											
	5	5	5	5	5	5	5	5	5	5	5
Dairy Quota											
Milk Delivery Quota	146	146	146	146	146	146	146	146	146	146	146
Intervention Price and Premium											
Butter**	246	246	246	246	246	246	246	246	246	246	246
NFD**	175	175	175	175	175	175	175	175	175	175	175
Payments											
Arable Area Payment ‡	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0

‡ Arable area payments become part of SFP.

** Calendar-average prices of marketing-year prices.

U.S. CROPS

U.S. Wheat

Poor wheat crops in Europe, Australia, and in other exporting countries contributed to a large increase in U.S. wheat exports in 2007/08.

Increased area and record yields resulted in sharply higher U.S. wheat production in 2008/09.

Reduced supplies in competing exporting countries led to high U.S. wheat exports and prices in 2007/08. Much larger crops of major competitors limit U.S. wheat exports in 2008/09. Future growth in exports is modest.

An increase in domestic and foreign supplies and weaker U.S. export demand allow stocks to rebuild in 2008/09.

Reduced area and more normal yields result in lower wheat production in 2009/10. Average wheat stocks remain near the elevated 2008/09 levels over the baseline.

Domestic wheat use jumps in 2008/09 because of a rebound in wheat feed use. Wheat feed use is very sensitive to relative prices of feed-quality wheat and corn.

The sharp increase in wheat prices dramatically increases producer returns in 2007/08. Continued high prices and record yields result in even greater wheat market receipts in 2008/09, but sharply higher production expenses limit the increase in net returns. Lower prices and more normal yields result in a significant decline in average producer net returns in 2009/10.

U.S. Wheat Supply and Utilization

U.S. Rice

In spite of record world prices, U.S. rice exports decline in 2008/09, as reduced beginning stocks and imports limit available supplies. A projected increase in 2009 rice production allows stocks to rebuild and exports to increase slightly.

Domestic rice use increases over the baseline, primarily because of population growth.

International rice prices reached record levels in 2008 in response to tight global grain supplies and policies that limited exports from several major producing countries. Increased world rice production has resulted in lower prices in subsequent months and may result in 2009/10 prices that are far below the 2008 peak.

Higher rice prices result in a third straight year of sharp increases in rice market receipts per acre in 2008/09. While variable production expenses also rose sharply, net returns over operating costs increase in 2008/09. Lower prices reduce market receipts and net returns in 2009/10. Projected average rice prices increase moderately after 2010/11 but remain below the 2008/09 level.

At projected prices, only the fixed direct payment program makes significant payments to rice producers.

U.S. Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Area											
Planted Area	3.00	3.15	3.00	2.74	2.76	2.84	2.90	2.99	3.02	2.98	2.94
Harvested Area	2.98	3.13	2.99	2.72	2.74	2.82	2.88	2.97	3.00	2.96	2.93
Yield											
	6,846	7,084	7,151	7,220	7,279	7,335	7,391	7,449	7,508	7,570	7,634
Supply											
	251.4	265.4	263.4	248.8	251.2	258.8	265.7	275.2	280.6	280.8	281.2
Beginning Stocks	29.4	23.2	29.4	31.4	30.4	30.2	30.9	31.8	32.9	34.1	34.6
Production	203.7	222.0	213.6	196.6	199.7	207.2	213.1	221.4	225.4	224.0	223.5
Imports	18.2	20.1	20.3	20.9	21.1	21.4	21.7	22.0	22.3	22.7	23.1
Domestic Use											
	127.2	133.1	135.5	136.8	137.8	138.8	140.2	141.5	143.2	144.9	146.6
Exports											
	101.0	102.8	96.5	81.6	83.2	89.1	93.7	100.8	103.3	101.2	99.5
Total Use											
	228.2	236.0	232.0	218.4	221.0	227.9	233.9	242.3	246.5	246.1	246.1
Ending Stocks											
CCC Inventory	23.2	29.4	31.4	30.4	30.2	30.9	31.8	32.9	34.1	34.6	35.1
Other Stocks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prices, Program Provisions											
	(U.S. Dollars per Hundredweight)										
Farm Price	16.93	12.80	11.87	12.05	12.53	13.02	13.27	13.68	13.64	13.61	13.60
Adjusted World Price	14.16	10.41	9.43	9.29	9.94	10.72	11.13	11.78	11.85	11.73	11.63
Loan Rate	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50
Target Price	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Direct Payment Rate	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35
Base Area											
	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48
Direct Payment Yield											
	4,820	4,820	4,820	4,820	4,820	4,820	4,820	4,820	4,820	4,820	4,820
CCP Yield	5,128	5,128	5,128	5,128	5,128	5,128	5,128	5,128	5,128	5,128	5,128
ACRE Participation Rate											
	n.a.	20.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Returns and Payments											
	(U.S. Dollars per Acre)										
Gross Market Revenue	1,158.98	906.95	848.94	869.91	911.98	954.94	980.50	1,018.96	1,024.31	1,030.43	1,038.59
Variable Expenses	514.21	467.14	456.67	478.55	496.55	512.68	519.47	516.51	520.17	526.07	532.32
Market Net Returns	644.76	439.80	392.27	391.35	415.43	442.26	461.02	502.45	504.14	504.36	506.26
Marketing Loan Benefits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ACRE Payments	n.a.	3.16	15.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CCP Payment/Base	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Direct Payment/Base	96.27	90.57	89.63	89.63	91.46	91.46	91.46	91.46	91.46	91.46	91.46

Note: Figures in this table are in rough (paddy) basis.

U.S. Long-Grain Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Area											
Planted Area	2.37	2.42	2.28	2.06	2.09	2.17	2.24	2.32	2.36	2.32	2.30
Arkansas	1.30	1.33	1.26	1.15	1.16	1.20	1.24	1.28	1.30	1.28	1.27
California	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Louisiana	0.46	0.47	0.43	0.39	0.40	0.41	0.42	0.44	0.44	0.44	0.43
Mississippi	0.23	0.24	0.22	0.20	0.20	0.21	0.22	0.22	0.23	0.22	0.22
Missouri	0.20	0.20	0.20	0.17	0.17	0.18	0.18	0.19	0.20	0.19	0.19
Texas	0.17	0.18	0.16	0.14	0.14	0.15	0.16	0.18	0.18	0.18	0.17
Harvested Area	2.35	2.41	2.27	2.05	2.08	2.16	2.22	2.31	2.34	2.31	2.28
Yield											
	6,522	6,828	6,897	6,963	7,028	7,095	7,162	7,229	7,295	7,360	7,426
Supply											
	187.36	195.21	192.30	180.00	182.08	188.93	195.49	203.86	208.89	209.03	208.94
Beginning Stocks	19.03	15.51	20.31	21.53	20.35	20.05	20.33	20.96	21.73	22.41	22.65
Production	153.26	164.48	156.67	142.81	145.99	153.06	159.19	166.80	170.91	170.10	169.52
Imports	15.07	15.22	15.31	15.65	15.75	15.81	15.97	16.09	16.26	16.51	16.77
Domestic Use											
	95.38	98.88	99.24	99.14	99.41	99.20	99.89	100.33	100.89	101.87	102.89
Exports											
	76.47	76.02	71.52	60.51	62.62	69.40	74.64	81.80	85.59	84.51	83.28
Residual											
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ending Stocks											
	15.51	20.31	21.53	20.35	20.05	20.33	20.96	21.73	22.41	22.65	22.77
Prices											
	(U.S. Dollars per Hundredweight)										
Farm Price	15.19	10.98	10.26	10.62	11.23	12.02	12.39	12.96	13.10	13.13	13.16
Milled Rice, Gulf	28.94	21.73	21.25	22.44	23.78	25.26	25.78	26.70	26.94	26.99	27.04

U.S. Medium- and Short-Grain Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Area											
Planted Area	0.63	0.73	0.72	0.68	0.67	0.67	0.66	0.67	0.66	0.65	0.65
Arkansas	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10
California	0.51	0.60	0.58	0.54	0.54	0.54	0.54	0.54	0.54	0.53	0.53
Louisiana	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
Mississippi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Missouri	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Texas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Harvested Area	0.63	0.73	0.72	0.67	0.67	0.67	0.66	0.66	0.66	0.65	0.64
Yield											
	8,063	7,931	7,959	8,008	8,060	8,109	8,164	8,214	8,265	8,320	8,372
Supply											
Beginning Stocks	62.69	68.81	69.72	67.51	67.83	68.51	68.89	69.99	70.35	70.39	70.92
Production	9.08	6.38	7.72	8.49	8.73	8.84	9.22	9.50	9.83	10.33	10.65
Imports	50.48	57.57	56.97	53.80	53.72	54.11	53.96	54.62	54.49	53.89	53.95
	3.14	4.87	5.03	5.21	5.38	5.56	5.71	5.87	6.03	6.17	6.31
Domestic Use	31.80	34.27	36.29	37.65	38.38	39.62	40.35	41.15	42.28	43.03	43.73
Exports	24.52	26.82	24.94	21.13	20.61	19.66	19.03	19.01	17.74	16.71	16.23
Residual	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ending Stocks	6.38	7.72	8.49	8.73	8.84	9.22	9.50	9.83	10.33	10.65	10.96
Prices											
(U.S. Dollars per Hundredweight)											
Farm Price	22.22	18.00	16.31	15.83	16.07	15.84	15.85	15.88	15.34	15.14	15.00
Milled Rice, California	48.52	39.99	36.57	35.59	36.07	35.61	35.62	35.70	34.59	34.19	33.91

U.S. Corn

Corn exports and feed use both decline in 2008/09, and the pace of growth in ethanol use of corn slows. However, ethanol use of corn continues to grow in response to EISA biofuel use mandates. Starting in 2015/16, more corn is used in ethanol production than is fed directly to livestock.

Reported feed and residual use of corn declines sharply in 2008/09 because of reduced animal numbers, lower corn production, and increased use of corn coproducts in feed rations. Stagnant livestock production and competition from corn coproducts limit corn feed use for the next several years.

Higher corn prices have resulted in a large increase in producer market receipts since 2005/06. Corn production expenses increased sharply in 2008/09, reducing the profitability of corn production. Variable expenses exclude land and other fixed costs.

ACRE and other farm program payments could be large in particular circumstances, but on average the payments are small relative to corn market receipts.

Export demand for corn in 2007/08 was surprisingly strong. The current macroeconomic weakness has significantly trimmed foreign demand and exports in 2008/09.

U.S. Corn Supply and Utilization

U.S. Ethanol and Biofuel Policy Provisions

Projected growth in corn-based ethanol production slows, but production still reaches 15 billion gallons by 2016/17.

Imported sugar-based ethanol is assumed to satisfy most of the Renewable Fuels Standard for advanced biofuels not met by cellulosic ethanol or bio-based diesel. Future levels of cellulosic ethanol production are very uncertain. Projected supplies are below the levels envisioned in the EISA.

The average rack (wholesale) price of ethanol fell below the average rack price of gasoline for the first time in 2007/08. When use mandates are binding, renewable identification numbers (RINs) increase in value and allow the producer price of ethanol to increase relative to gasoline. Projected rack (wholesale) prices of ethanol strengthen relative to gasoline in 2008/09 and 2009/10, with lower petroleum prices and a binding mandate under the EISA. In later years, unleaded gasoline rack prices increase as petroleum prices rise.

Additive uses of ethanol increased sharply when methyl tertiary butyl ether (MTBE) was replaced in the nation's fuel supply. Voluntary use of 10% ethanol blends and E85 must absorb increasing supplies unless other blends enter the market. Ethanol blends must be price competitive with regular gasoline at the retail level to encourage the required increase in use.

U.S. Ethanol Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Supply	(Million Gallons)										
Production	9,827	11,230	12,050	13,051	13,453	14,238	15,049	15,863	16,245	16,592	17,024
From Corn	9,697	11,061	11,841	12,774	13,082	13,733	14,368	14,966	15,078	15,089	15,100
From Other Feedstocks	128	158	185	215	238	265	293	316	334	355	377
Cellulosic	1	11	23	63	133	240	388	581	832	1,148	1,548
Imports (Ethyl Alcohol)	387	431	490	607	628	806	1,164	1,249	1,634	2,119	2,602
Domestic Use											
Disappearance	9,888	11,378	12,315	13,456	13,900	14,856	16,021	16,914	17,665	18,481	19,381
Conventional	9,455	10,868	11,714	12,676	13,012	13,663	14,301	14,899	15,000	15,000	15,000
Cellulosic	1	11	23	63	133	240	388	581	832	1,148	1,548
Other Advanced Ethanol	432	499	578	717	755	953	1,332	1,435	1,833	2,333	2,833
Exports (Ethyl Alcohol)	205	209	185	159	162	153	155	157	183	205	219
Ending Stocks	745	821	862	905	925	959	996	1,036	1,066	1,090	1,116
Prices	(Dollars per Barrel)										
Petroleum, Ref. Acquisition	43.41	42.12	63.74	77.81	84.54	86.14	82.44	79.74	79.30	79.33	79.34
Petroleum, W. Texas Interm.	46.39	45.58	68.67	83.63	90.75	92.42	88.42	85.50	85.00	85.00	85.00
(Dollars per Gallon)											
Unl. Gasoline, FOB Omaha	1.46	1.39	1.93	2.28	2.45	2.49	2.41	2.35	2.34	2.34	2.38
Unleaded Gasoline, Retail	2.10	2.03	2.55	2.89	3.07	3.13	3.07	3.03	3.02	3.03	3.07
Ethanol, FOB Omaha *	1.79	1.74	1.77	1.90	1.94	2.07	2.17	2.22	2.08	2.01	1.98
AMS Spot Plant, Iowa	1.62	1.57	1.60	1.72	1.76	1.87	1.96	2.01	1.88	1.82	1.79
Cellulosic *	0.00	0.00	3.23	3.25	3.25	3.33	3.39	3.43	3.49	3.53	3.59
Other Advanced *	0.00	1.74	1.77	1.90	1.94	2.07	2.17	2.22	2.28	2.39	2.48
Ethanol, Implied Retail	1.63	1.54	1.90	2.09	2.11	2.11	2.05	2.01	2.00	2.00	2.03
Ethanol/Gasoline Retail Ratio	77.6%	75.6%	74.4%	72.2%	68.9%	67.2%	66.6%	66.4%	66.3%	66.2%	66.0%

* Rack prices.

U.S. Biofuel Policy Provisions

U.S. Corn Products

Domestic use of HFCS has declined since 2005/06. Projected use recovers in 2009/10 but is flat in later years, as per capita use resumes its slow decline.

Projected U.S. exports of HFCS grow to 969,000 tons by 2018/19 but will be dependent on the degree to which Mexico replaces sugar with HFCS in soft drinks.

Relative to sugar prices, HFCS wholesale prices have risen sharply since 2005/06, discouraging growth in HFCS use.

Increasing dry mill ethanol production results in large additional supplies of distillers grains. Most of the coproduct is fed to U.S. livestock, primarily beef and dairy cattle. The table reports the sum of wet and dried distillers grains and brewers grains on a dry-equivalent basis.

Exports of distillers grains have increased rapidly but remain modest relative to total supplies and relative to corn exports.

Over the long run, prices of distillers dried grains with solubles (DDGS) and corn gluten feed generally move with corn prices. Projected DDGS prices dip slightly below corn prices on a per ton basis to encourage consumption of rapidly increasing supplies.

After falling sharply in 2008/09, corn oil prices increase in response to strong global demand for vegetable oils. Rising corn oil prices benefit wet millers and may encourage new processes to extract corn oil in dry mill plants.

U.S. Corn Products Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
High-Fructose Corn Syrup											
Production	8,737	9,080	9,252	9,248	9,279	9,271	9,279	9,300	9,389	9,485	9,572
Domestic Use	8,224	8,520	8,578	8,546	8,548	8,515	8,497	8,482	8,521	8,566	8,603
Net Exports	513	560	675	703	731	756	782	818	868	919	969
(Thousand Tons, Oct.-Sept. Year)											
Domestic Use per Capita	53.34	54.72	54.57	53.85	53.34	52.63	52.01	51.43	51.18	50.96	50.70
(Pounds per Capita, Oct.-Sept. Year)											
Price, 42% Midwest	24.28	24.29	23.29	23.50	23.84	24.38	24.82	25.05	24.77	24.62	24.53
HFCS price/refined sugar price	87.4%	81.3%	81.1%	82.5%	83.1%	84.4%	85.4%	86.5%	86.6%	86.5%	86.6%
Distillers, Brewers Grains											
Production (Dry Equivalent)	27,688	31,528	33,496	35,956	36,658	38,299	39,877	41,325	41,444	41,273	41,096
Domestic Use	22,862	26,364	28,089	30,310	30,781	32,205	33,560	34,809	34,746	34,394	34,031
Net Exports	4,827	5,164	5,407	5,646	5,877	6,095	6,317	6,516	6,698	6,879	7,065
(Thousands Tons, Sept.-Aug. Year)											
Price, Lawrenceburg, IN	135.51	125.12	122.74	125.55	126.98	131.05	133.43	134.98	135.15	135.67	135.64
DDGS Price/Corn Price	97.1%	94.4%	93.1%	91.3%	91.6%	91.2%	91.2%	91.3%	92.1%	92.7%	93.1%
Corn Gluten Feed											
Production	7,868	8,173	8,405	8,529	8,567	8,639	8,722	8,806	8,832	8,851	8,873
Domestic Use	6,299	6,565	6,798	6,952	7,015	7,121	7,227	7,332	7,379	7,421	7,463
Net Exports	1,569	1,607	1,606	1,577	1,552	1,519	1,495	1,474	1,453	1,430	1,410
(Dollars per Ton, Sept.-Aug. Year)											
Price, 21%, IL Points	103.40	95.18	92.79	94.94	95.67	98.63	100.13	100.93	100.43	100.35	99.91
CGF price/corn price	74.1%	71.8%	70.4%	69.1%	69.0%	68.6%	68.5%	68.3%	68.5%	68.5%	68.6%
Corn Gluten Meal											
Production	2,071	2,151	2,212	2,244	2,254	2,274	2,295	2,317	2,324	2,329	2,335
Domestic Use	908	964	1,010	1,030	1,030	1,039	1,051	1,062	1,058	1,053	1,048
Net Exports	1,162	1,187	1,202	1,215	1,224	1,234	1,245	1,255	1,266	1,277	1,287
(Thousands Tons, Sept.-Aug. Year)											
Price, 60%, IL Points	461.74	423.96	409.53	404.69	406.91	412.11	417.72	420.73	419.82	418.84	418.25
CGM price/soy meal price	155.3%	158.9%	160.2%	160.7%	160.4%	159.6%	158.8%	158.3%	158.5%	158.6%	158.7%
Corn Oil											
(Million Pounds, Oct.-Sept. Year)											
Production	2,526	2,660	2,755	2,825	2,859	2,912	2,970	3,028	3,056	3,080	3,104
Domestic Use	1,706	1,835	1,945	2,023	2,053	2,105	2,158	2,214	2,244	2,267	2,290
Net Exports	819	821	815	809	808	809	811	812	813	814	815
Ending Stocks	205	208	202	195	193	192	193	195	194	193	192
(Cents per Pound, Oct.-Sept. Year)											
Chicago Price	34.41	35.10	38.07	41.20	42.57	43.86	44.69	45.53	46.56	47.49	48.36
Corn oil price/soy oil price	97.5%	96.6%	96.1%	96.0%	96.0%	95.8%	95.6%	95.4%	95.4%	95.4%	95.4%

U.S. Corn Processing

Ethanol use accounts for most of the growth in food and industrial use of corn. HFCS and other food and industrial uses of corn grow slowly over time.

Falling petroleum and corn prices have reduced the value of ethanol and distillers grains in 2008/09, resulting in lower returns over operating costs for dry mill ethanol producers in 2008/09. The narrow margins slow capacity growth, and capacity expands modestly to meet a portion of the EISA mandates.

Lower returns and other factors have driven down utilization rates in the ethanol industry. Utilization rates again increase when petroleum and ethanol prices recover and the mandates expand.

From 2009 to 2018, dry mill net returns over operating costs average about \$0.32 per gallon. Operating costs exclude capital costs; net profits would be lower.

The pattern of net returns for wet mill ethanol plants over time is very similar to that for dry mill plants. Capital costs and average returns over operating costs generally are higher for wet mill plants than for dry mill plants.

The recent decline in net returns explains the slowdown in ethanol plant capacity expansion. Actual net returns to ethanol production depend on petroleum prices, the weather, policy, and other factors that are difficult to predict. For example, high petroleum prices may raise ethanol prices and net returns, while a drought could raise corn prices and reduce ethanol net returns.

U.S. Corn Processing

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn Food, Industrial Use											
Fuel Alcohol	3,551	4,029	4,291	4,605	4,692	4,900	5,101	5,286	5,299	5,276	5,254
HFCS	478	496	504	503	504	502	502	502	506	510	513
Glucose and Dextrose	238	243	243	243	244	244	245	245	246	247	248
Starch	257	260	263	264	266	268	270	272	275	277	280
Beverage Alcohol	135	137	138	139	140	141	142	143	144	145	147
Cereals and Other	193	196	198	199	201	202	204	205	207	209	211
Total	4,853	5,361	5,637	5,953	6,046	6,257	6,462	6,653	6,677	6,665	6,653
Corn Dry Milling											
Corn Dry Milled for Ethanol	3,144	3,594	3,826	4,119	4,203	4,399	4,587	4,760	4,776	4,758	4,739
(Share of Total Ethanol)	88.5%	89.2%	89.2%	89.4%	89.6%	89.8%	89.9%	90.1%	90.1%	90.2%	90.2%
(Share Fractionating)	7.7%	8.4%	8.8%	9.2%	9.8%	10.3%	10.8%	11.4%	11.9%	12.5%	13.0%
Yields per Bushel of Corn											
Ethanol (Gallons)	2.74	2.75	2.77	2.78	2.80	2.81	2.83	2.84	2.86	2.87	2.89
Distillers Grains (Pounds)	16.90	16.89	16.89	16.89	16.88	16.88	16.87	16.86	16.86	16.85	16.85
Costs and Returns											
Ethanol Value	1.79	1.74	1.77	1.90	1.94	2.07	2.17	2.22	2.08	2.01	1.98
Distillers Grains Value	0.42	0.38	0.37	0.38	0.38	0.39	0.40	0.40	0.40	0.40	0.40
Corn Cost	-1.43	-1.35	-1.33	-1.38	-1.39	-1.43	-1.45	-1.46	-1.44	-1.43	-1.41
Fuel and Electricity Cost	-0.25	-0.25	-0.28	-0.30	-0.31	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33
Other Operating Costs	-0.33	-0.33	-0.33	-0.33	-0.33	-0.34	-0.34	-0.35	-0.35	-0.35	-0.36
Net Operating Return	0.21	0.19	0.20	0.27	0.29	0.36	0.44	0.49	0.36	0.30	0.27
Corn Wet Milling											
Corn Wet Milled for Ethanol	407	435	465	487	489	502	514	525	523	518	515
(Share of Total Ethanol)	11.5%	10.8%	10.8%	10.6%	10.4%	10.2%	10.1%	9.9%	9.9%	9.8%	9.8%
Other Corn Wet Milling	973	999	1,010	1,010	1,014	1,014	1,016	1,019	1,027	1,034	1,042
Total Corn Wet Milling	1,380	1,434	1,475	1,496	1,503	1,516	1,530	1,545	1,549	1,553	1,557
Yields per Bushel of Corn											
Ethanol (Gallons)	2.69	2.70	2.71	2.71	2.72	2.73	2.74	2.74	2.75	2.76	2.77
Gluten Feed (Pounds)	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40
Gluten Meal (Pounds)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Corn Oil (Pounds)	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
Costs and Returns											
Ethanol Value	1.79	1.74	1.77	1.90	1.94	2.07	2.17	2.22	2.08	2.01	1.98
Gluten Feed Value	0.22	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21
Gluten Meal Value	0.26	0.24	0.23	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23
Corn Oil Value	0.22	0.22	0.24	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.30
Corn Cost	-1.45	-1.38	-1.36	-1.42	-1.43	-1.48	-1.50	-1.51	-1.49	-1.49	-1.47
Fuel and Electricity Cost	-0.19	-0.19	-0.22	-0.23	-0.24	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26
Other Operating Costs	-0.52	-0.52	-0.52	-0.53	-0.53	-0.54	-0.54	-0.55	-0.55	-0.56	-0.56
Net Operating Return	0.33	0.31	0.33	0.41	0.44	0.51	0.59	0.63	0.50	0.44	0.41

U.S. Sorghum

U.S. sorghum exports have increased sharply in 2007/08 in response to reduced grain production in Europe and a large U.S. sorghum crop. The recovery in EU grain production in 2008 contributes to a sharp decline in 2008/09 in U.S. sorghum exports.

Sorghum prices generally move with corn prices so that sorghum is competitive in feed rations. Sorghum feed use increases in 2008/09 when sorghum prices decline relative to corn prices, but feed use generally falls in later years as sorghum prices increase again relative to corn.

High sorghum prices and record yields have resulted in a large jump in the per acre value of sorghum production in 2007/08. Sorghum prices and yields decline in 2008/09, sharply reducing the market value of sorghum production.

Variable expenses also increased sharply in 2008/09, further reducing sorghum net returns. Lower expenses result in higher net returns in 2009/10.

U.S. Sorghum Supply and Utilization

U.S. Barley

Strong international demand for barley and other grains has contributed to a large increase in barley prices in 2007/08, and U.S. barley exports reached their highest level since 2000/01.

After declining in 2008/09, barley used in brewing and other food and industrial applications is expected to rebound in 2009/10 and remain relatively flat over the remainder of the projection period. Population increases offset declining consumption per capita.

Limited feed barley supplies and high prices for other grains contributed to a sharp increase in feed barley prices both in absolute terms and relative to the prices of malting barley in 2007/08. Feed barley prices fall while malting barley prices rise in 2008/09.

With larger supplies, malting barley prices fall back in 2009/10, reducing barley net returns. Malting and feed barley producers may have very different experiences than suggested in these all-barley averages.

U.S. Barley Supply and Utilization

U.S. Oats

Sharply reduced acreage resulted in the fifth consecutive year of declining U.S. oats production in 2008.

Rising global market demand for all grains in 2007/08 and reduced U.S. oats imports in 2008/09 contributed to two straight years of sharp increases in oats prices and market receipts.

Like many other crops, much of the increase in market receipts was offset by rising production costs for oats producers. Both receipts and expenses dip in 2009/10 but remain above pre-2008/09 levels.

Imports exceed domestic production, and this pattern is expected to persist over the next 10 years.

Strong prices draw in additional acres in 2009/10, but strength in competing crop returns puts oats acreage on a declining path throughout the baseline.

U.S. Oat Supply and Utilization

U.S. Hay

Hay yields were again below the long-run trend in 2008/09, preventing the market's attempt to further build stocks. The slightly lower hay production and a rebound in disappearance result in very tight hay markets in 2008/09. Tight supplies led to record hay prices in 2008/09.

Projected modest increases in both hay area harvested and yields allow hay stocks to rebuild in 2009/10. Hay area remains fairly stable after 2009/10, so the projected increase in production is a result of slow growth in yields per acre.

As hay supplies increase relative to cattle numbers, hay prices fall in 2009/10 but remain high by historical standards.

Hay markets are more fragmented than markets for most other agricultural commodities, so trends in national average prices may not reflect local conditions.

U.S. Hay Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Area Harvested	60.1	61.7	61.9	61.8	61.6	61.5	61.4	61.3	61.2	61.2	61.2
Yield	2.43	2.47	2.48	2.49	2.50	2.51	2.51	2.52	2.53	2.54	2.55
Supply	167.3	173.4	177.2	178.6	179.2	179.7	180.0	180.2	180.5	180.9	181.3
Production	145.7	152.7	153.5	153.8	153.9	154.1	154.3	154.6	155.0	155.5	156.0
Beginning Stocks	21.6	20.7	23.6	24.8	25.3	25.6	25.7	25.7	25.5	25.4	25.3
Disappearance	146.5	149.8	152.4	153.2	153.6	154.0	154.3	154.7	155.1	155.6	156.1
Ending Stocks	20.7	23.6	24.8	25.3	25.6	25.7	25.7	25.5	25.4	25.3	25.2
Prices							(U.S. Dollars per Ton)				
All-Hay (crop year)	157.38	136.26	130.94	128.88	128.46	129.58	131.30	133.84	136.05	138.44	140.85
Alfalfa (calendar year)	162.83	159.74	145.05	140.97	139.67	140.28	142.08	144.76	147.60	150.41	153.33

U.S. Soybeans and Soybean Products

Acreage shifts from soybeans to corn resulted in a large reduction in 2007 soybean production, but soybean acreage and production rebounded in 2008.

Ending stocks remain roughly flat at 2007/08 levels, as production and use are in close balance throughout the baseline.

With stocks relatively tight, soybean prices are likely to be volatile, as even small shocks to supply or demand would disturb the projected balance.

Limited soybean supplies and weaker domestic demand for soybean oil and soybean meal result in lower soybean crush in 2008/09. Projected crush increases after 2008/09 in response to increased domestic and world demand for vegetable oil and protein meal.

Soybean exports remain over 1.1 billion bushels per year from 2008/09 to 2018/19. Increased South American supplies are offset by increased demand from China and other importers.

Higher soybean prices dramatically increased producer returns over variable expenses in 2007/08. In 2008/09 lower soybean prices and yields reduce soybean market receipts per acre, and higher production costs further reduce net returns. Soybean returns must remain well above pre-2007 levels for soybeans to remain competitive with corn production.

In spite of sharply lower prices, domestic use of soybean oil for purposes other than biodiesel production falls in 2008/09 for the fourth straight year. Increasing amounts of soybean oil are used to produce biodiesel.

Global demand for vegetable oil weakened in 2008/09, reducing U.S. soybean oil exports and prices. Exports recover only when biodiesel use levels off after 2012/13.

Reduced livestock and poultry production contributes to lower 2008/09 domestic use of soybean meal. A resumption of moderate growth in livestock production contributes to increased soybean meal use beginning in 2009/10.

Soybean meal exports increase in the latter half of the baseline as soybean meal prices fall relative to other feeds.

Weaker global demand reduces the value of soybean oil in a bushel of soybeans in 2008/09.

The Illinois soybean processor price falls much more than the farm price in 2008/09. The farm price is weighted by monthly marketings, and this held down the 2007/08 average.

U.S. Soybean Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Area											
Planted Area	75.7	75.0	75.4	76.1	76.5	76.9	76.8	76.8	77.1	77.4	77.7
Harvested Area	74.6	74.0	74.3	75.1	75.5	75.8	75.8	75.7	76.0	76.3	76.6
Yield											
Actual	39.6	41.8	42.1	42.5	42.9	43.2	43.6	44.0	44.4	44.9	45.2
Supply											
Beginning Stocks	3,173	3,308	3,373	3,432	3,472	3,512	3,537	3,565	3,607	3,654	3,696
Production	205	210	236	235	229	225	224	222	220	220	222
Imports	2,959	3,089	3,128	3,189	3,234	3,277	3,304	3,334	3,378	3,424	3,465
9	9	9	9	9	9	9	9	9	9	9	9
Domestic Use											
Crush	1,863	1,903	1,958	2,007	2,050	2,094	2,134	2,176	2,225	2,276	2,325
Seed, Residual	1,698	1,728	1,778	1,826	1,869	1,912	1,952	1,994	2,041	2,090	2,137
165	174	180	181	182	181	181	181	182	184	186	188
Exports											
	1,100	1,169	1,180	1,196	1,196	1,194	1,181	1,169	1,162	1,156	1,148
Total Use											
	2,963	3,072	3,138	3,204	3,246	3,288	3,315	3,345	3,387	3,432	3,473
Ending Stocks											
CCC Inventory	210	236	235	229	225	224	222	220	220	222	223
Under Loan	0	0	0	0	0	0	0	0	0	0	0
Other Stocks	12	17	17	16	16	15	14	14	15	15	15
197	219	217	212	210	209	208	208	206	206	207	207
Prices, Program Provisions											
Farm Price	9.37	8.75	8.78	9.08	9.30	9.55	9.78	9.94	9.99	10.03	10.09
Illinois Processor Price	10.03	9.42	9.46	9.74	9.95	10.20	10.43	10.58	10.63	10.67	10.72
Loan Rate	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Target Price	5.80	5.80	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Direct Payment	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Base Area											
	52.0	52.1	52.1	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2
Direct Payment Yield											
CCP Yield	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
ACRE Participation Rate											
n.a.	70.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
Returns and Payments											
(U.S. Dollars per Acre)											
Gross Market Revenue	371.49	365.34	369.76	385.50	398.38	412.92	426.55	437.40	444.05	450.04	456.19
Variable Expenses	131.45	120.73	118.57	123.08	126.80	130.85	133.32	133.78	135.28	137.13	139.00
Market Net Returns	240.04	244.61	251.19	262.42	271.58	282.07	293.22	303.62	308.77	312.91	317.19
Marketing Loan Benefits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ACRE Payments	n.a.	12.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CCP Payment/Base	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Direct Payment/Base	11.52	9.71	9.60	9.60	9.79	9.79	9.79	9.79	9.79	9.79	9.79
Other Indicators											
(U.S. Dollars)											
48% Meal Price/ton	297.32	266.83	255.57	251.88	253.73	258.21	263.07	265.75	264.94	264.03	263.46
Oil Price/cwt	35.28	36.33	39.60	42.92	44.36	45.78	46.73	47.70	48.80	49.78	50.70
Crushing Margin/bu	1.08	1.08	1.15	1.17	1.16	1.18	1.18	1.21	1.26	1.31	1.35
Bean/Corn Ratio	2.40	2.36	2.38	2.36	2.40	2.37	2.39	2.40	2.43	2.45	2.47

U.S. Soybean Meal Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Tons)											
Supply	40,787	41,514	42,689	43,836	44,859	45,903	46,850	47,843	48,954	50,113	51,234
Beginning Stocks	294	305	298	309	319	322	324	324	323	324	326
Production	40,328	41,045	42,226	43,362	44,375	45,417	46,361	47,354	48,466	49,624	50,743
Imports	165	165	165	165	165	165	165	165	165	165	165
Domestic Use	32,084	32,687	33,347	33,988	34,491	35,045	35,519	36,032	36,578	37,156	37,645
Exports	8,399	8,530	9,032	9,529	10,046	10,535	11,007	11,488	12,052	12,631	13,262
Total Use	40,483	41,216	42,379	43,517	44,537	45,580	46,526	47,520	48,630	49,787	50,907
Ending Stocks	305	298	309	319	322	324	324	323	324	326	327
(U.S. Dollars per Ton)											
Prices, 48% Protein											
Decatur	297.32	266.83	255.57	251.88	253.73	258.21	263.07	265.75	264.94	264.03	263.46

U.S. Soybean Oil Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	
(Million Pounds)												
Supply	22,016	21,986	22,150	22,572	22,998	23,494	23,952	24,432	24,932	25,454	25,965	
Beginning Stocks	2,483	2,107	1,700	1,574	1,511	1,503	1,504	1,505	1,468	1,430	1,400	
Production	19,483	19,829	20,400	20,948	21,438	21,941	22,397	22,877	23,414	23,974	24,514	
Imports	50	50	50	50	50	50	50	50	50	50	50	
Domestic Use	18,158	18,704	19,133	19,661	19,872	19,813	19,920	20,049	20,177	20,297	20,319	
Food Use	14,979	15,033	14,870	14,655	14,698	14,755	14,862	14,962	15,070	15,191	15,326	
Biodiesel Use	3,180	3,670	4,262	5,006	5,175	5,057	5,057	5,087	5,106	5,106	4,993	
Exports	1,750	1,582	1,443	1,401	1,623	2,177	2,528	2,916	3,325	3,757	4,272	
Total Use	19,909	20,286	20,576	21,062	21,496	21,990	22,447	22,964	23,502	24,054	24,591	
Ending Stocks	2,107	1,700	1,574	1,511	1,503	1,504	1,505	1,468	1,430	1,400	1,373	
Prices					(U.S. Cents per Pound)							
Decatur	35.28	36.33	39.60	42.92	44.36	45.78	46.73	47.70	48.80	49.78	50.70	

U.S. Biodiesel

Biodiesel production continues to expand while capacity growth has slowed. At the same time, biodiesel feedstocks are increasingly diverse, with greater shares coming from fats and oils other than soybean oil.

The projections assume the following: the authority to waive the EISA biodiesel mandate is not utilized, a 1-billion-gallon mandate is carried forward after 2012, and soybean-oil-based biodiesel continues to satisfy greenhouse gas reductions required under the bio-based diesel mandate.

The projections further assume that the \$1.00-per-gallon tax credit continues to be available on U.S.-produced biodiesel that is blended in this country prior to export, and that the European Union does not impose additional tariffs on U.S. biodiesel imports.

As the EISA mandates increase, rising domestic use of biodiesel crowds out exportable supplies. The increase in domestic use after 2008/09 is largely driven by the EISA mandates and flattens when the mandate stops growing.

Lower petroleum prices in 2008/09 have contributed to lower biodiesel prices. The decline in biodiesel prices is offset by lower feedstock prices for fats and oils.

Excess existing production capacity keeps margins low even as biodiesel use grows with the mandate. Existing capacity is enough to meet the 1-billion-gallon mandate, and narrow margins discourage growth in biodiesel capacity.

U.S. Biodiesel Sector

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Biodiesel Supply and Use											
Production	774	892	1,007	1,138	1,180	1,173	1,177	1,183	1,187	1,188	1,173
From Soybean Oil	413	477	554	650	672	657	657	661	663	663	648
From Other Fats and Oils	362	416	454	488	508	516	520	522	524	525	524
Net Exports	332	292	257	205	180	173	177	183	187	188	173
Domestic Use	442	600	750	933	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Fuel Prices*											
(Dollars per Gallon, Oct.-Sept. Year)											
Biodiesel Rack	3.45	3.45	3.76	4.08	4.22	4.32	4.39	4.47	4.57	4.67	4.75
#2 Diesel, Refiner Sales	1.85	1.74	2.30	2.62	2.78	2.81	2.72	2.66	2.66	2.67	2.71
#2 Diesel, Retail	2.56	2.45	3.01	3.34	3.50	3.54	3.45	3.40	3.41	3.42	3.44
Tax credit, pre-consumer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tax Credit, Other Feedstocks	0.88	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Costs and Returns											
Biodiesel Value	3.45	3.45	3.76	4.08	4.22	4.32	4.39	4.47	4.57	4.67	4.75
Glycerin Value	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Soy Oil Cost	-2.72	-2.80	-3.05	-3.30	-3.42	-3.52	-3.60	-3.67	-3.76	-3.83	-3.90
Other Operating Costs	-0.55	-0.55	-0.56	-0.56	-0.56	-0.57	-0.58	-0.58	-0.59	-0.59	-0.60
Net Operating Return	0.24	0.15	0.21	0.27	0.28	0.27	0.26	0.26	0.27	0.29	0.30

U.S. Vegetable Oil Consumption

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Per Capita Consumption											
(Pounds)											
Per Capita Consumption	69.08	69.08	68.16	67.27	67.00	66.82	66.83	66.83	66.76	66.74	66.74
Soy Oil (Exc. Biodiesel)	48.58	48.28	47.30	46.17	45.86	45.60	45.49	45.36	45.26	45.19	45.16
Corn Oil	5.53	5.89	6.19	6.37	6.41	6.50	6.61	6.71	6.74	6.74	6.75
Canola Oil (Exc. Biodiesel)	10.04	9.96	9.74	9.80	9.83	9.84	9.88	9.92	9.95	10.01	10.05
Cottonseed Oil	2.21	2.29	2.24	2.18	2.14	2.11	2.08	2.07	2.05	2.03	2.01
Sunflower Oil	1.86	1.86	1.88	1.92	1.93	1.93	1.93	1.93	1.93	1.93	1.93
Peanut Oil	0.85	0.81	0.82	0.83	0.83	0.83	0.83	0.84	0.84	0.84	0.85

U.S. Sunflower Seed and Sunflower Seed Products

Sunflower seed prices increased sharply in 2007/08 in response to strong global demand for vegetable oil. Prices decline in 2008/09 and 2009/10, in part because of lower world vegetable oil prices.

Growth in European biodiesel production, strong food demand in China and India, and a variety of other factors keep minor oilseed prices above pre-2007 levels over the baseline.

Sunflower seed returns per acre increased sharply in 2007/08 because of higher prices and yields. Returns fall in 2008/09 and 2009/10 as prices retreat.

ACRE payments could be triggered in 2009/10 if prices fall as much or more than projected, or if state yields fall below recent averages.

As a result of high producer returns, projected sunflower seed planted area remains above 2 million acres over the next 10 years. Despite strong sunflower seed market returns, acreage does not increase more because of strong competition from other crops.

Over the baseline, continued strength in vegetable oil demand leads to rising sunflower oil prices, while sunflower meal prices generally decline over time.

U.S. Sunflower Seed Supply and Utilization

U.S. Sunflower Meal Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Tons)											
Supply	379	381	388	399	409	416	422	434	447	462	477
Beginning Stocks	5	5	5	5	5	5	5	5	5	5	5
Production	374	376	383	394	404	411	417	429	442	457	472
Imports	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	359	360	368	379	388	395	402	413	427	441	456
Exports	15	15	15	15	15	15	15	15	15	15	15
Total Use	374	376	383	394	404	411	417	429	442	457	472
Ending Stocks	5	5	5	5	5	5	5	5	5	5	5
(U.S. Dollars per Ton)											
Price											
28% Protein, Minnesota	155.43	141.71	136.65	134.98	135.82	137.83	140.02	141.22	140.86	140.45	140.20

U.S. Sunflower Oil Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Million Pounds)											
Supply	761	795	796	815	834	848	861	882	906	933	960
Beginning Stocks	26	58	46	45	48	49	51	52	52	53	54
Production	659	662	675	695	711	724	735	755	779	805	831
Imports	75	75	75	75	75	75	75	75	75	75	75
Domestic Use	574	579	590	610	618	626	630	635	641	648	654
Exports	129	170	160	156	166	171	180	195	212	231	250
Total Use	703	749	751	767	785	797	810	830	853	879	905
Ending Stocks	58	46	45	48	49	51	52	52	53	54	55
(U.S. Cents per Pound)											
Price											
Average Crude, Minnesota	60.31	61.44	64.43	66.31	67.63	69.03	70.31	71.39	72.56	73.51	74.45

U.S. Canola Seed and Canola Seed Products

Canola prices increase sharply in 2007/08 in response to strong global demand for vegetable oil. Prices decline in 2008/09 and 2009/10, in part because of lower world vegetable oil prices.

Growth in European biodiesel production, strong food demand in China and India, and a variety of other factors keep minor oilseed prices above pre-2007 levels over the baseline.

Canola returns per acre increased sharply in 2007/08 because of higher prices and yields. Returns continue to grow in 2008/09 and beyond.

Canola returns remain well above recent average levels over the next 10 years. Higher receipts come from market returns, as price levels make producers ineligible for marketing loan benefits and countercyclical payments. For those electing to participate, ACRE payments could be triggered in 2009/10 if prices fall as much or more than projected, or if state yields fall below recent averages.

As a result of high producer returns, projected canola planted area grows modestly over the next 10 years. Despite strong canola market returns, acreage does not increase more because of strong competition from other crops.

Over the baseline, continued strength in vegetable oil demand leads to rising canola oil prices, while canola meal prices generally decline over time.

While plants have been built to use canola oil as a feedstock in biodiesel production, projected canola oil prices are sufficiently high that relatively little U.S. canola oil is likely to be used for biodiesel production.

U.S. Canola Seed Supply and Utilization

U.S. Canola Meal Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Tons)											
Supply	2,955	2,892	2,905	2,955	3,008	3,044	3,087	3,125	3,165	3,210	3,257
Beginning Stocks	6	6	6	6	6	6	6	6	6	6	6
Production	728	718	736	759	774	786	797	810	823	837	848
Imports	2,222	2,168	2,163	2,190	2,228	2,252	2,284	2,309	2,336	2,368	2,402
Domestic Use	2,836	2,773	2,785	2,836	2,889	2,924	2,968	3,006	3,046	3,091	3,137
Exports	114	114	114	114	114	114	114	114	114	114	114
Total Use	2,949	2,886	2,899	2,949	3,002	3,038	3,081	3,119	3,159	3,204	3,251
Ending Stocks	6	6	6	6	6	6	6	6	6	6	6
(U.S. Dollars per Ton)											
Market Price	204.82	192.02	186.52	180.95	181.32	185.23	188.83	191.78	192.37	192.54	192.31

U.S. Canola Oil Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Million Pounds)											
Supply	3,601	3,565	3,483	3,526	3,562	3,594	3,641	3,686	3,724	3,781	3,832
Beginning Stocks	134	142	115	82	67	61	60	62	62	61	62
Production	948	935	958	988	1,008	1,024	1,038	1,055	1,073	1,090	1,105
Imports	2,519	2,487	2,410	2,455	2,487	2,509	2,542	2,569	2,589	2,630	2,664
Domestic Use	3,172	3,163	3,114	3,172	3,214	3,247	3,292	3,337	3,376	3,432	3,481
Biodiesel Use	77	63	52	61	64	62	63	64	64	68	70
Food and Other	3,095	3,101	3,062	3,111	3,151	3,185	3,229	3,273	3,312	3,364	3,411
Exports	287	287	287	287	287	287	287	287	287	287	287
Total Use	3,459	3,450	3,400	3,459	3,501	3,534	3,579	3,623	3,663	3,719	3,768
Ending Stocks	142	115	82	67	61	60	62	62	61	62	64
(U.S. Cents per Pound)											
Market Price	42.68	44.93	50.86	53.45	54.86	56.51	57.41	58.34	59.61	60.25	61.05

U.S. Peanuts and Peanut Products

High contract prices led to a sharp increase in peanut planted area in 2008. Combined with record yields, the result is a large increase in 2008/09 peanut production and carryover stocks.

The expectation of lower prices results in a drop in projected 2009 peanut area, which leaves supply in approximate balance with demand.

Domestic food use of peanuts increased significantly after policy reforms were enacted in the 2002 farm bill but has declined in the last few years. A modest projected increase in peanut food use can be attributed to projected domestic food use of peanuts, which grows more slowly than population.

The baseline was prepared before Peanut Corporation of America products were recalled in late January 2009.

U.S. peanut exports have increased since 2004/05 and are projected to remain near current levels.

Higher peanut prices and yields increase per acre market receipts in 2008/09. Unlike most other crops, peanut prices are not high enough to eliminate countercyclical payments.

Variable production expenses increased sharply in 2008/09. Lower market prices and a return to normal yields reduce 2009/10 market receipts. Expenses also fall in 2009/10.

Peanut crush and exports can vary a great deal from year to year, but little growth is expected in either category.

U.S. Peanut Supply and Utilization

U.S. Peanut Meal Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Million Pounds)											
Supply	265	240	245	246	247	246	246	250	252	254	256
Beginning Stocks	7	7	7	7	7	7	7	7	7	7	7
Production	258	233	239	239	241	239	240	244	246	248	249
Imports	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	247	222	228	228	230	228	229	233	235	237	238
Exports	11	11	11	11	11	11	11	11	11	11	11
Total Use	258	233	239	239	241	239	240	244	246	248	249
Ending Stocks	7	7	7	7	7	7	7	7	7	7	7
(U.S. Dollars per Ton)											
Price											
Southeast Mills, FOB	138.17	127.82	122.08	119.43	118.99	120.74	122.53	123.32	122.23	120.93	119.33

U.S. Peanut Oil Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Million Pounds)											
Supply	298	286	292	297	300	304	307	311	315	319	322
Beginning Stocks	24	24	24	24	24	24	24	24	24	24	24
Production	176	158	162	163	164	162	163	166	167	168	170
Imports	99	103	105	111	113	118	120	121	123	126	128
Domestic Use	263	251	257	262	265	269	272	276	279	283	287
Exports	11	11	11	11	11	11	11	11	11	11	11
Total Use	274	262	268	273	276	280	283	287	290	294	298
Ending Stocks	24	24	24	24	24	24	24	24	24	24	24
(U.S. Cents per Pound)											
Price											
50% Southeast Mills	80.75	83.87	86.97	90.36	92.15	93.49	94.64	95.52	96.45	97.19	97.94

U.S. Upland Cotton and Cottonseed Products

Upland cotton production continued its decline in 2008 under competition for area from other crops. A further decline in cotton planted area is expected in 2009, but normal weather could result in higher yields and less abandoned area than in 2008, which would result in an actual increase in production in 2009/10.

Lower production allows stocks in 2008/09 to return to more normal levels after reaching nearly 10 million bales in 2007/08.

The current economic climate has cut world cotton demand, pushing down prices and trade. When world income growth resumes, world cotton use should expand.

Domestic mill use continues to decline. U.S. upland cotton exports far exceed domestic mill use as demand becomes increasingly export dependent. Recent data suggests the 2008/09 demand decline could be even more severe than indicated here.

Changes in Chinese cotton purchasing patterns have contributed to large historic annual swings in U.S. cotton exports. Projected exports follow production, but significant annual variation can be expected.

Variable production expenses grew sharply in 2008/09. Projected expenses decline in 2009/10, but net returns over variable expenses remain narrow. Increased marketing loan benefits and countercyclical payments offset the decline in market receipts.

Higher prices for all oilseeds and reduced cottonseed production contribute to a further increase in cottonseed prices in 2008/09. Higher cottonseed prices have squeezed cottonseed crushing margins in 2008/09 relative to a year ago. Weaker oilseed meal prices contribute to a drop in cottonseed prices in 2009/10, but prices remain above 2007/08 levels throughout the baseline.

U.S. Upland Cotton Supply and Utilization

U.S. Cottonseed Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Tons)											
Supply	5,122	5,159	5,084	5,031	5,033	5,007	5,041	5,137	5,215	5,306	5,392
Beginning Stocks	643	330	318	310	305	304	302	305	312	319	326
Production	4,429	4,802	4,740	4,694	4,702	4,676	4,712	4,806	4,876	4,961	5,039
Imports	50	26	26	26	26	26	26	26	26	26	26
Domestic Use	4,439	4,497	4,434	4,391	4,394	4,371	4,400	4,484	4,551	4,630	4,703
Crush	2,314	2,498	2,497	2,501	2,505	2,501	2,509	2,529	2,543	2,560	2,575
Other	2,125	1,999	1,937	1,890	1,889	1,870	1,892	1,956	2,008	2,070	2,128
Exports	353	344	339	335	335	334	335	341	345	350	355
Total Use	4,792	4,841	4,774	4,726	4,729	4,704	4,736	4,825	4,896	4,980	5,059
Ending Stocks	330	318	310	305	304	302	305	312	319	326	333
(U.S. Dollars)											
Prices and Returns											
Farm Price/ton	202.76	173.93	177.28	183.29	186.75	191.46	194.70	196.76	198.10	199.07	200.03
Meal Price/ton	246.27	217.72	208.60	205.80	207.26	211.30	215.08	216.45	215.05	213.41	212.15
Oil Price/cwt	41.18	42.60	45.98	49.37	50.88	52.35	53.34	54.32	55.45	56.45	57.38
Crushing Margin/ton	42.65	62.80	66.00	69.54	71.55	73.41	75.07	76.80	78.40	79.85	81.28

U.S. Cottonseed Meal Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Tons)											
Supply	1,127	1,205	1,213	1,217	1,219	1,217	1,220	1,229	1,236	1,244	1,252
Beginning Stocks	55	49	57	59	60	60	59	58	58	59	60
Production	1,071	1,156	1,156	1,157	1,159	1,158	1,161	1,170	1,177	1,185	1,192
Imports	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	967	1,038	1,044	1,047	1,050	1,048	1,052	1,060	1,067	1,074	1,082
Exports	110	110	110	110	110	110	110	110	110	110	110
Total Use	1,077	1,148	1,154	1,157	1,160	1,158	1,162	1,170	1,177	1,184	1,192
Ending Stocks	49	57	59	60	60	59	58	58	59	60	60
(U.S. Dollars per Ton)											
Prices											
Memphis	246.27	217.72	208.60	205.80	207.26	211.30	215.08	216.45	215.05	213.41	212.15

U.S. Cottonseed Oil Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Million Pounds)											
Supply	885	886	887	885	883	881	882	888	892	896	901
Beginning Stocks	147	89	90	87	84	83	82	81	80	79	79
Production	739	797	797	798	799	798	801	807	812	817	822
Imports	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	683	712	705	691	687	682	681	682	682	682	683
Exports	113	84	95	110	114	117	120	126	130	135	140
Total Use	796	796	800	801	801	799	801	808	812	818	823
Ending Stocks	89	90	87	84	83	82	81	80	79	79	78
(U.S. Cents per Pound)											
Prices											
Valley Points	41.18	42.60	45.98	49.37	50.88	52.35	53.34	54.32	55.45	56.45	57.38

U.S. Sugar

Sugarcane and sugar beet area both declined slightly in 2007, but rising sugarcane yields resulted in little net change in 2007 sugar production. Area declines in 2008 because of weak returns to sugar production and strong returns to competing crops.

Reduced production of beet sugar results in a sharp drawdown of sugar stocks in 2008/09. Sugar beet area rebounds in 2009, as beet returns increase relative to competing crops. The baseline does not assume the proposed reduction in Florida cane production for Everglades restoration.

The 2008 farm bill created a program to divert sugar into ethanol production if the alternative is accumulation of government stocks. In any given year, and in the context of this deterministic baseline, the most likely outcome is that no sugar will be used for ethanol production. Whenever sugar supplies are unusually large or sugar demand is unusually weak, the program may be triggered. If the program works as intended, no CCC sugar stocks should accumulate. Without this program, prices would occasionally drop low enough to result in government stock accumulation.

Sugar imports continue to put downward pressure on sugar prices in 2008/09. Future import levels are an important source of uncertainty for the U.S. sugar sector. While imports under the TRQ for sugar are fairly predictable, it is much more difficult to estimate future sugar trade with Mexico.

This baseline assumes a moderate level of U.S. sugar imports from Mexico, so total U.S. sugar imports average about 2.3 million tons per year. Separate stochastic analysis looks at a range of possible outcomes for sugar trade, with important implications for sugar prices and farm program costs.

Per capita consumption of sugar and HFCS has been declining. Sugar consumption flattens and a further modest reduction in per capita HFCS use is projected. Total domestic sugar deliveries increase slowly over the next 10 years, as the effect of a growing population more than offsets the small projected decline in per capita consumption.

Even small deviations from the projected trends in sugar and sweetener consumption could have significant impacts on the long-run outlook.

Projected average sugar prices consistently exceed the loan rate.

U.S. Sugar Crop Production

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Beet Sugar											
Harvested Area (1,000 a)	1,005	1,154	1,187	1,167	1,155	1,151	1,148	1,150	1,148	1,147	1,149
Yield (tons/a)	26.70	25.82	26.19	26.52	26.83	27.15	27.49	27.83	28.16	28.49	28.82
Production (1,000 tons)	26,820	29,798	31,099	30,937	30,977	31,247	31,557	32,005	32,323	32,670	33,101
Cane Sugar											
Harvested Area (1,000 a)	824	821	851	850	837	832	829	827	825	821	819
Yield (tons/a)	35.42	34.35	34.80	35.01	35.22	35.49	35.78	36.10	36.38	36.63	36.89
Production (1,000 tons)	29,188	28,208	29,625	29,741	29,489	29,535	29,658	29,842	30,004	30,090	30,195

U.S. Sugar Supply and Utilization

**U.S. LIVESTOCK AND
DAIRY**

U.S. Beef

The cattle industry is experiencing difficult financial times, as rapidly rising input costs are not compensated by higher receipt levels. Feed and non-feed costs are expected to moderate this year, but they will stay above levels seen earlier this decade. Despite decreases in per capita beef supplies, short-term economic weakness will constrain cattle prices below profitable levels until 2010.

Cow-calf producers have responded to economic losses by reducing inventory. Feedlots are also struggling financially. Fewer available calves will cause feeder animal prices to rise, but until the economic situation of feedlots improves, price bids for calves will be tempered. Beef cow numbers drop to 13% below the 1996 peak and should return the industry to historical profitability levels in a few years.

A weakening U.S. dollar and the recovery of market access lost from BSE-related disruptions nearly resulted in the U.S. becoming a net exporter of beef in 2008. As beef prices rise in the next few years and the dollar shows little further depreciation, it will be difficult to improve upon the current beef net trade situation. Uncertainty over implementation of COOL regulations is a factor in reducing cattle imports.

U.S. Beef Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Beef Cows (Jan. 1)	32.6	31.9	31.3	30.9	30.8	30.7	30.6	30.8	31.0	31.1	31.1
Dairy Cows (Jan. 1)	9.2	9.2	9.1	9.0	8.9	8.9	8.9	8.9	8.9	8.9	8.9
Cattle and Calves (Jan. 1)	96.7	96.0	95.3	94.0	93.3	93.1	93.0	93.3	93.5	93.6	93.6
Calf Crop	37.2	36.6	36.0	35.8	35.7	35.7	35.9	36.2	36.4	36.6	36.6
Calf Death Loss	2.3	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2
Calf Slaughter	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Beef Cow Slaughter	3.7	3.4	3.1	2.8	2.8	2.8	2.6	2.6	2.8	2.8	2.9
Dairy Cow Slaughter	2.6	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Bull Slaughter	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Steer and Heifer Slaughter	27.6	27.3	27.7	27.4	26.9	26.8	26.9	27.2	27.4	27.6	27.9
Total Slaughter	35.5	35.1	35.2	34.5	34.1	33.9	33.7	34.0	34.4	34.7	35.1
Cattle Imports	2.3	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
Cattle Exports	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.4
Cattle Death Loss	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Residual	0.1	0.3	0.5	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8
Cattle and Calves (Dec. 31)	96.0	95.3	94.0	93.3	93.1	93.0	93.3	93.5	93.6	93.6	93.1
Cattle on Feed (Jan. 1)	14.3	13.3	13.8	13.8	13.5	13.5	13.5	13.6	13.8	14.0	14.1
Supply											
(Million Pounds)											
Beginning Stocks	630	605	570	556	578	570	576	581	590	607	630
Imports	2,482	2,795	3,023	3,149	3,282	3,453	3,570	3,517	3,429	3,370	3,284
Production	26,661	26,370	26,546	26,180	25,921	25,881	25,944	26,317	26,725	27,246	27,777
Total	29,773	29,770	30,139	29,885	29,781	29,904	30,090	30,415	30,745	31,223	31,692
Disappearance											
Domestic Use	27,293	27,194	27,300	27,025	26,935	26,994	27,118	27,345	27,567	27,903	28,248
Exports	1,875	2,006	2,283	2,282	2,276	2,333	2,391	2,480	2,571	2,689	2,791
Total	29,773	29,770	30,139	29,885	29,781	29,904	30,090	30,415	30,745	31,223	31,692
Ending Stocks	605	570	556	578	570	576	581	590	607	630	653
Per Capita Consumption											
(Pounds)											
Carcass Weight	89.4	88.2	87.7	86.0	84.9	84.2	83.8	83.7	83.6	83.8	84.0
Retail Weight	62.6	61.7	61.4	60.2	59.4	59.0	58.7	58.6	58.5	58.7	58.8
Change	-4.0%	-1.3%	-0.6%	-2.0%	-1.3%	-0.7%	-0.5%	-0.1%	-0.1%	0.3%	0.3%
Prices											
(U.S. Dollars per Hundredweight)											
1100 - 1300 #, Nebraska Direct Steers	92.27	89.64	94.97	98.48	100.79	101.75	102.40	102.39	102.58	102.65	102.83
Change	0.5%	-2.8%	5.9%	3.7%	2.3%	0.9%	0.6%	0.0%	0.2%	0.1%	0.2%
600 - 650 #, Oklahoma City Feeder Steers	107.56	104.11	114.02	122.40	128.05	131.27	132.60	132.55	132.87	133.01	133.08
Change	-6.9%	-3.2%	9.5%	7.3%	4.6%	2.5%	1.0%	0.0%	0.2%	0.1%	0.1%
Utility Cows, Sioux Falls	54.77	52.57	57.36	58.47	59.28	59.44	60.93	60.93	60.96	61.02	61.13
Change	5.1%	-4.0%	9.1%	1.9%	1.4%	0.3%	2.5%	0.0%	0.0%	0.1%	0.2%
Boxed Beef Cutout	153.20	150.30	159.11	165.52	169.71	171.64	173.16	173.08	173.47	173.70	174.04
Change	2.3%	-1.9%	5.9%	4.0%	2.5%	1.1%	0.9%	0.0%	0.2%	0.1%	0.2%
(U.S. Dollars per Pound)											
Beef Retail	4.32	4.24	4.46	4.74	4.95	5.11	5.18	5.18	5.19	5.20	5.20
Change	4.0%	-2.0%	5.2%	6.2%	4.6%	3.1%	1.4%	0.0%	0.1%	0.1%	0.1%
Net Returns											
(U.S. Dollars per Cow)											
Cow - Calf	-37.40	-18.87	16.87	31.02	42.83	47.01	47.02	41.84	37.25	30.48	23.76

U.S. Pork

The year 2008 was the worst financially for hog producers since 1998. The hog industry is particularly dependent on corn as a production input, and corn has been the major driver in increased production costs for the sector. Hog prices managed to increase slightly in 2008 despite the largest production increase since 1998, as pork export levels continued to set new records.

U.S. producers began to reduce the sow herd early in 2008. Sow inventory cuts could total 250,000 head by 2011. Reductions would need to be larger if not for the fact that the Canadian pork industry is also contracting after many years of growth. Higher hog prices will be generated by fewer sows, allowing profitability to return to the sector in 2010-11.

Pork exports in 2008 are more than triple the 2001 volume. Export levels began to fall during the fourth quarter of 2008. Though some decline is expected in 2009, the long-term trend of increasing exports is expected to resume in 2010. The combination of a smaller Canadian hog herd and uncertainty over COOL implementation will result in fewer hogs entering the U.S. from Canada.

U.S. Pork Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Breeding Herd (Dec. 1*)	6.23	6.08	5.98	5.98	5.99	6.01	6.07	6.11	6.15	6.12	6.07
Gilts Added	3.46	3.39	3.37	3.36	3.36	3.42	3.45	3.47	3.43	3.38	3.34
Sows Slaughter	3.55	3.43	3.31	3.30	3.27	3.30	3.34	3.38	3.40	3.37	3.34
Sows Farrowed	12.19	11.99	11.97	12.06	12.18	12.36	12.56	12.74	12.85	12.87	12.86
Pigs per Litter (Head)	9.41	9.44	9.48	9.53	9.57	9.63	9.69	9.74	9.80	9.85	9.90
Market Hogs (Dec. 1*)	61.9	60.6	59.9	59.8	60.3	61.3	62.3	63.6	64.7	65.1	65.4
Pig Crop	114.7	113.1	113.4	114.9	116.6	119.0	121.7	124.2	125.9	126.8	127.3
Barrow and Gilt Slaughter	112.5	109.4	108.4	109.2	110.4	112.5	115.0	117.4	119.5	120.2	120.8
Hog Imports	9.2	7.8	7.1	7.1	7.2	7.3	7.5	7.5	7.4	7.3	7.3
Hog Exports	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Death Loss/Residual	12.6	12.3	12.2	12.2	12.4	12.6	12.9	13.1	13.3	13.4	13.5
Market Hogs (Nov. 30)	60.6	59.9	59.8	60.3	61.3	62.3	63.6	64.7	65.1	65.4	65.7
Supply											
(Million Pounds)											
Beginning Stocks	536	640	632	624	633	643	665	686	706	725	732
Imports	813	893	921	982	1,014	979	926	907	923	955	991
Production	23,378	22,802	22,706	22,978	23,306	23,852	24,457	25,076	25,639	25,902	26,140
Total	24,727	24,335	24,260	24,585	24,953	25,474	26,047	26,669	27,268	27,582	27,863
Disappearance											
Domestic Use	19,318	19,594	19,248	19,344	19,486	19,739	20,046	20,448	20,866	21,011	21,168
Exports	4,769	4,108	4,387	4,608	4,824	5,071	5,314	5,515	5,677	5,839	5,957
Total	24,087	23,703	23,635	23,952	24,310	24,810	25,361	25,962	26,543	26,850	27,125
Ending Stocks	640	632	624	633	643	665	686	706	725	732	738
Per Capita Consumption											
(Pounds)											
Carcass Weight	63.3	63.5	61.8	61.5	61.4	61.6	62.0	62.6	63.3	63.1	63.0
Retail Weight	49.1	49.3	48.0	47.7	47.6	47.8	48.1	48.6	49.1	49.0	48.9
Change	-3.2%	0.4%	-2.7%	-0.5%	-0.2%	0.3%	0.6%	1.0%	1.1%	-0.3%	-0.2%
Prices											
(U.S. Dollars per Hundredweight)											
Barrows & Gilts, Natl. Base											
51-52% live equiv.	47.84	48.90	53.02	55.02	56.25	54.77	53.97	53.68	53.33	54.60	56.15
Change	1.6%	2.2%	8.4%	3.8%	2.2%	-2.6%	-1.5%	-0.5%	-0.7%	2.4%	2.8%
Sows, IA-S. Minn. #1-2, 300-400 lb	33.22	36.53	39.91	42.09	43.44	41.78	40.55	39.70	38.73	40.03	42.01
Change	-6.1%	10.0%	9.2%	5.5%	3.2%	-3.8%	-2.9%	-2.1%	-2.4%	3.3%	5.0%
Pork Cutout Value	69.32	69.48	75.24	79.00	81.31	80.71	80.48	80.37	80.10	81.98	84.55
Change	2.6%	0.2%	8.3%	5.0%	2.9%	-0.7%	-0.3%	-0.1%	-0.3%	2.3%	3.1%
(U.S. Dollars per Pound)											
Pork Retail	2.94	2.96	3.12	3.32	3.44	3.43	3.41	3.38	3.37	3.43	3.55
Change	2.3%	0.8%	5.3%	6.3%	3.8%	-0.5%	-0.6%	-0.7%	-0.4%	1.9%	3.4%
Net Returns											
(U.S. Dollars per Hundredweight)											
Farrow - Finish	-7.97	-2.42	3.41	5.06	5.36	3.00	0.98	0.00	-0.60	0.86	2.58

* Preceding year.

U.S. Poultry

In 2008, chicken and turkey producers experienced the third consecutive year of a decrease in the output-to-feed-price ratio. Egg producers began reducing the supply in 2007 and were therefore better able to handle the recent feed cost increases. The difficult financial situation will result in less chicken and turkey production this year, and slower-than-average growth in 2010.

Strong export growth in 2007 and 2008 contributed to back-to-back declines in per capita chicken consumption. The first reduction in chicken production in decades will keep the supply relatively tight in the domestic market, even as exports struggle in 2009. Consumers tend to demand more poultry relative to beef and pork during difficult economic times because it is a lower-cost source of protein. This helped support chicken and turkey prices in 2008.

After posting strong gains in 2007 and 2008, chicken exports decline in 2009. Many factors contribute to the decline, including a weak global economy, a stronger U.S. dollar, and a reduction in the U.S. allocation of the Russian poultry import quota. Export growth should slowly resume as economies strengthen. Exports are extremely important to the U.S. chicken industry since international consumers prefer dark meat products that are less popular with U.S. consumers.

U.S. Broiler Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Supply											
Beginning Stocks	719	810	738	756	782	790	799	804	806	812	820
Imports	77	80	85	89	92	95	98	101	104	107	110
Production	36,500	36,119	36,597	37,254	37,818	38,392	38,929	39,487	40,123	40,805	41,499
Total	37,296	37,009	37,420	38,100	38,692	39,277	39,826	40,392	41,033	41,724	42,429
Disappearance											
Domestic Use	29,755	30,134	30,440	30,937	31,358	31,725	32,110	32,502	32,941	33,424	33,940
Exports	6,731	6,137	6,224	6,381	6,544	6,753	6,912	7,084	7,280	7,480	7,660
Total	36,486	36,271	36,663	37,318	37,902	38,478	39,022	39,586	40,221	40,904	41,601
Ending Stocks	810	738	756	782	790	799	804	806	812	820	828
Per Capita Consumption											
RTC Weight	97.4	97.7	97.8	98.4	98.8	99.0	99.2	99.5	99.9	100.4	101.0
Retail Weight	83.7	83.9	84.0	84.5	84.9	85.0	85.2	85.5	85.8	86.2	86.7
Change	-1.5%	0.3%	0.0%	0.7%	0.4%	0.2%	0.2%	0.3%	0.4%	0.5%	0.6%
Prices											
12-City Wholesale	79.67	80.86	81.24	82.58	83.75	84.98	86.53	87.89	89.06	89.88	90.65
Change	4.3%	1.5%	0.5%	1.6%	1.4%	1.5%	1.8%	1.6%	1.3%	0.9%	0.9%
Broiler Retail	174.64	176.59	181.16	186.91	190.49	193.46	195.86	197.84	200.62	203.03	205.04
Change	5.8%	1.1%	2.6%	3.2%	1.9%	1.6%	1.2%	1.0%	1.4%	1.2%	1.0%
Broiler - Feed Ratio	3.7	5.2	5.6	5.7	5.7	5.7	5.7	5.7	5.8	5.9	5.9

U.S. Turkey Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Supply											
Beginning Stocks	261	350	298	304	314	320	326	328	326	326	327
Imports	10	12	13	14	15	16	17	18	19	20	21
Production	6,170	5,988	6,031	6,120	6,215	6,296	6,362	6,420	6,481	6,548	6,619
Total	6,441	6,350	6,342	6,438	6,544	6,632	6,704	6,766	6,826	6,894	6,967
Disappearance											
Domestic Use	5,436	5,447	5,424	5,496	5,579	5,641	5,696	5,742	5,787	5,836	5,891
Exports	654	605	614	629	645	666	681	697	714	730	748
Total	6,090	6,052	6,038	6,125	6,224	6,307	6,377	6,440	6,500	6,567	6,638
Ending Stocks	350	298	304	314	320	326	328	326	326	327	329
Per Capita Consumption											
Change	17.8	17.7	17.4	17.5	17.6	17.6	17.6	17.6	17.5	17.5	17.5
	1.6%	-0.8%	-1.4%	0.3%	0.5%	0.1%	0.0%	-0.1%	-0.2%	-0.1%	0.0%
Prices											
(U.S. Cents per Pound)											
East. Region, Wholesale	87.54	86.59	87.03	88.19	88.75	89.73	91.38	93.10	94.53	95.43	96.29
Change	6.7%	-1.1%	0.5%	1.3%	0.6%	1.1%	1.8%	1.9%	1.5%	1.0%	0.9%
Turkey Retail	125.13	123.46	125.03	128.40	130.64	132.77	134.66	136.52	139.34	142.19	144.90
Change	8.8%	-1.3%	1.3%	2.7%	1.7%	1.6%	1.4%	1.4%	2.1%	2.0%	1.9%
Turkey - Feed Ratio	4.6	6.3	6.7	6.8	6.7	6.7	6.6	6.7	6.8	6.9	7.0

U.S. Egg Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Supply											
Beginning Stocks	11	16	15	15	15	15	15	15	15	15	15
Production	7,499	7,520	7,589	7,646	7,696	7,749	7,802	7,859	7,922	7,990	8,064
Imports	15	14	15	15	16	16	17	17	18	18	19
Total	7,526	7,550	7,618	7,676	7,727	7,780	7,834	7,891	7,954	8,023	8,097
Disappearance											
Civilian Disappearance											
Shell Egg	4,333	4,325	4,354	4,374	4,390	4,408	4,426	4,446	4,469	4,495	4,524
Breaking Egg	1,977	1,992	2,024	2,052	2,079	2,106	2,134	2,164	2,194	2,227	2,262
Hatching Egg	993	997	999	1,005	1,010	1,014	1,018	1,022	1,028	1,035	1,042
Exports	208	221	226	230	233	237	240	244	248	251	255
Total	7,510	7,535	7,603	7,661	7,712	7,765	7,819	7,876	7,939	8,008	8,082
Ending Stock	16	15	15	15	15	15	15	15	15	15	15
Per Capita Consumption											
							(Eggs)				
Shell Egg	170.3	168.3	167.8	167.0	166.0	165.0	164.1	163.3	162.6	162.0	161.5
Change	-0.8%	-1.1%	-0.3%	-0.5%	-0.6%	-0.6%	-0.5%	-0.5%	-0.4%	-0.4%	-0.3%
Breaking Egg	77.7	77.5	78.0	78.3	78.6	78.9	79.1	79.5	79.8	80.3	80.7
Change	-0.8%	-0.2%	0.6%	0.4%	0.3%	0.4%	0.4%	0.4%	0.5%	0.5%	0.6%
Total	247.9	245.9	245.8	245.3	244.6	243.9	243.3	242.8	242.4	242.2	242.2
Prices											
							(U.S. Cents per Dozen)				
NY Grade A Lg. Wholesale	127.76	117.64	111.88	109.45	110.75	112.68	115.13	117.23	118.31	118.60	118.99
Change	11.7%	-7.9%	-4.9%	-2.2%	1.2%	1.7%	2.2%	1.8%	0.9%	0.2%	0.3%
Shell Egg Retail	198.65	185.22	180.77	179.46	181.52	184.96	188.40	191.08	193.55	195.31	196.98
Change	18.5%	-6.8%	-2.4%	-0.7%	1.1%	1.9%	1.9%	1.4%	1.3%	0.9%	0.9%
Egg - Feed Ratio	8.6	10.0	9.7	9.2	9.1	9.1	9.1	9.1	9.1	9.1	9.1

U.S. Dairy

Class III and Class IV milk prices will fall to historically low levels in 2009 because of faltering world demand for U.S. dairy products. Strong cheese prices in 2008 sent the Class III price higher than the Class IV price by over \$2.75 per cwt. The Class III price is expected to exceed the Class IV price throughout the baseline because of weaker world skim milk powder prices.

Strong international demand moved world dairy prices to record levels in the past two years. But over the past six to eight months, world dairy prices have fallen dramatically because of weak global demand for dairy products. The weakening world prices cause wholesale dairy product prices to fall to near government support levels in 2009.

The 2009 all-milk price is expected to average near \$13 per cwt. Some stochastic model outcomes suggest that the 2009 milk price could drop to its lowest level in a decade. The volatility in milk prices that has occurred over the past 10 years is expected to continue. In the stochastic analysis, 80% of model outcomes result in an all-milk price of between \$14 and \$22 per cwt by 2018.

U.S. Milk Component Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk-Fat Basis											
Fluid Use	1,675	1,731	1,726	1,719	1,729	1,742	1,757	1,775	1,792	1,811	1,832
Whole Milk	515	520	508	495	486	477	468	460	451	443	435
2% Milk	386	402	405	408	412	418	423	429	435	440	446
1% and Skim Milk	81	83	82	82	82	82	82	82	82	82	82
Other	694	727	731	735	749	766	784	804	825	846	869
Product Use	4,914	4,846	4,889	4,956	5,027	5,085	5,138	5,185	5,235	5,287	5,344
American Cheese	1,300	1,278	1,276	1,295	1,310	1,323	1,335	1,346	1,357	1,369	1,383
Other Cheese	1,422	1,442	1,475	1,500	1,538	1,564	1,590	1,616	1,644	1,673	1,704
Butter	1,330	1,245	1,253	1,276	1,289	1,301	1,311	1,315	1,319	1,323	1,327
Nonfat Dry	7	6	5	6	6	6	6	7	7	7	7
Evap. and Condensed	65	66	66	65	64	64	64	64	65	65	65
Frozen Products	679	692	698	699	705	709	713	719	724	729	735
Whey Products	11	11	11	11	11	11	11	11	11	11	11
Other	99	105	105	104	105	106	107	107	109	110	111
Farm Use	45	45	45	45	46	46	47	47	48	49	49
Milk Production	189,699	189,406	189,461	190,967	193,216	195,430	197,663	199,989	202,456	205,060	207,883
% Fat	3.68%	3.68%	3.68%	3.67%	3.66%	3.65%	3.64%	3.63%	3.62%	3.61%	3.60%
Total Fat Supply	6,981	6,970	6,972	7,008	7,072	7,133	7,195	7,260	7,329	7,403	7,484
Residual Fat	347	348	312	288	270	260	253	252	254	256	259
Solids-Not-Fat Basis											
Fluid Use	4,902	5,043	5,017	4,987	4,989	4,996	5,008	5,022	5,035	5,050	5,068
Whole Milk	1,365	1,378	1,346	1,313	1,288	1,264	1,242	1,219	1,196	1,174	1,152
2% Milk	1,764	1,838	1,851	1,863	1,886	1,910	1,935	1,961	1,987	2,013	2,040
1% and Skim Milk	1,421	1,459	1,449	1,438	1,435	1,434	1,434	1,434	1,434	1,434	1,435
Other	352	368	371	372	380	388	398	408	418	429	441
Product Use	7,393	7,121	7,100	7,215	7,340	7,462	7,581	7,708	7,844	7,989	8,144
American Cheese	1,209	1,189	1,187	1,204	1,218	1,231	1,242	1,252	1,262	1,274	1,286
Other Cheese	1,487	1,508	1,542	1,568	1,608	1,635	1,662	1,689	1,718	1,749	1,781
Butter	50	46	47	48	48	48	49	49	49	49	49
Nonfat Dry	949	565	457	502	526	572	622	676	735	796	861
Total Nonfat Dry	1,747	1,412	1,378	1,466	1,507	1,559	1,614	1,676	1,744	1,815	1,892
Nonfat Dry in Other	-798	-847	-920	-964	-980	-987	-992	-1,000	-1,009	-1,019	-1,031
Evap. and Condensed	632	641	635	625	621	621	622	624	626	628	631
Frozen Products	963	982	990	992	1,000	1,006	1,013	1,020	1,027	1,035	1,043
Whey Products	1,451	1,500	1,554	1,592	1,631	1,654	1,671	1,691	1,714	1,738	1,764
Other	652	689	689	684	688	694	700	706	713	720	728
Farm Use	105	106	106	106	108	109	110	111	113	114	116
Milk Production	189,699	189,406	189,461	190,967	193,216	195,430	197,663	199,989	202,456	205,060	207,883
% SNF	8.70%	8.70%	8.70%	8.70%	8.70%	8.70%	8.70%	8.70%	8.70%	8.70%	8.70%
Total SNF Supply	16,504	16,478	16,483	16,614	16,810	17,002	17,197	17,399	17,614	17,840	18,086
Residual Whey	2,679	2,682	2,709	2,744	2,787	2,819	2,850	2,880	2,912	2,945	2,982
Residual SNF	1,425	1,526	1,551	1,561	1,586	1,616	1,648	1,678	1,709	1,742	1,776
Min. FMMO Class Prices											
(U.S. Dollars per Hundredweight)											
Class I Mover	18.00	12.23	13.67	15.43	15.85	15.90	16.04	16.31	16.60	16.88	17.17
Class II	16.24	10.52	11.08	12.72	13.27	13.55	13.86	14.22	14.58	14.97	15.35
Class III	17.44	12.23	13.67	15.43	15.85	15.90	16.04	16.31	16.60	16.88	17.17
Class IV	14.65	9.82	10.38	12.02	12.57	12.85	13.16	13.52	13.88	14.27	14.65
All Milk Price	18.34	12.99	14.23	16.00	16.52	16.70	16.88	17.16	17.45	17.75	18.06

U.S. State-Level Dairy Supply

The cost of producing milk has increased rapidly because of high feed costs and energy-related inputs. Low milk prices coupled with historically high production costs result in the severe economic stress currently faced by dairy farmers. Milk production costs are expected to decline slightly in 2009 but remain at historically high levels.

The dairy cow herd has increased every year since 2004. A large decrease in dairy cows is expected for 2009 and 2010. The annual growth in milk per cow is expected to remain between 1% and 2% over the baseline. New technology or adverse weather could move the industry outside of this range for any given year.

With poor returns, milk production is expected to stall at 190 billion pounds through 2010. After 2010, milk production is projected to grow by 1.2% annually. The trend of the regional movement of milk production is expected to continue but at a slower rate than has been seen over the past decade.

U.S. Dairy Cows by State

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Thousand Head)											
Alabama	12	11	9	8	7	6	5	5	4	3	3
Alaska	1	1	1	1	1	1	1	1	1	1	1
Arizona	186	187	185	186	189	192	195	197	199	202	204
Arkansas	15	13	11	10	9	8	7	6	5	5	4
California	1,844	1,860	1,851	1,855	1,871	1,890	1,911	1,933	1,957	1,982	2,010
Colorado	128	133	137	140	144	148	152	155	158	161	164
Connecticut	19	19	18	18	17	17	16	16	16	16	15
Delaware	7	6	6	6	5	5	5	5	4	4	4
Florida	122	115	107	101	97	93	89	86	83	80	78
Georgia	76	73	70	67	65	64	63	62	61	60	60
Hawaii	2	2	1	1	2	2	1	1	1	1	1
Idaho	549	566	573	584	599	614	630	646	662	678	695
Illinois	102	100	97	95	94	93	92	92	91	91	90
Indiana	167	164	161	160	160	160	160	160	161	161	162
Iowa	216	214	209	207	205	204	202	201	199	198	197
Kansas	113	112	110	109	109	109	109	109	109	110	110
Kentucky	90	83	76	70	66	62	59	57	55	53	52
Louisiana	26	23	20	17	15	13	12	10	9	8	8
Maine	33	33	32	32	32	31	31	31	31	30	30
Maryland	56	51	47	45	43	41	40	39	38	37	37
Massachusetts	15	14	13	13	12	12	11	11	11	10	10
Michigan	348	350	346	344	345	346	346	346	346	346	346
Minnesota	464	458	446	438	433	429	424	420	416	413	409
Mississippi	20	18	17	15	14	13	12	11	10	9	8
Missouri	111	107	102	97	94	91	88	85	83	80	78
Montana	17	16	15	14	14	13	13	13	13	12	12
Nebraska	58	56	54	52	51	49	48	48	47	46	46
Nevada	27	27	26	26	26	25	25	25	25	25	25
New Hampshire	15	15	14	14	14	14	13	13	13	13	13
New Jersey	10	10	9	9	8	8	8	7	7	7	7
New Mexico	338	333	324	320	320	321	321	322	323	324	325
New York	626	621	608	598	592	586	580	574	569	564	560
North Carolina	47	43	39	35	32	29	26	23	20	17	15
North Dakota	27	25	22	20	18	16	14	12	11	9	8
Ohio	280	279	275	273	272	271	270	269	268	267	267
Oklahoma	64	60	56	52	50	48	46	45	43	42	41
Oregon	114	111	109	107	105	104	104	103	103	102	102
Pennsylvania	549	543	531	522	516	509	503	498	492	487	483
Rhode Island	1	1	1	1	1	1	1	1	1	1	1
South Carolina	18	17	17	16	16	15	15	15	14	14	14
South Dakota	90	92	91	89	88	88	87	87	87	87	86
Tennessee	59	55	51	47	44	41	38	35	33	31	28
Texas	379	389	388	389	394	398	402	405	408	411	413
Utah	85	83	80	77	76	74	73	72	71	70	69
Vermont	140	139	136	134	132	131	130	129	127	126	125
Virginia	98	94	89	86	83	81	79	78	76	75	74
Washington	245	244	239	236	235	234	233	232	231	230	229
West Virginia	12	11	10	9	8	8	7	7	7	7	7
Wisconsin	1,252	1,238	1,209	1,189	1,179	1,170	1,162	1,154	1,147	1,141	1,137
Wyoming	7	7	7	6	6	6	6	6	6	6	6
United States	9,271	9,221	9,044	8,940	8,907	8,884	8,866	8,854	8,851	8,855	8,870

U.S. Milk Production by State

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Pounds)											
Alabama	184	164	144	128	113	100	88	77	67	58	50
Alaska	7	8	8	8	8	8	8	8	8	8	8
Arizona	4,348	4,376	4,410	4,485	4,585	4,681	4,772	4,858	4,940	5,019	5,099
Arkansas	195	173	151	133	119	106	94	85	76	69	63
California	41,185	41,741	42,226	43,014	43,973	44,950	45,966	46,966	48,013	49,106	50,264
Colorado	2,935	3,108	3,254	3,402	3,553	3,696	3,833	3,965	4,092	4,215	4,334
Connecticut	364	361	356	354	352	350	349	348	347	346	346
Delaware	110	106	102	99	96	93	91	88	86	84	83
Florida	2,059	1,938	1,835	1,759	1,699	1,644	1,592	1,547	1,508	1,475	1,448
Georgia	1,355	1,324	1,286	1,265	1,251	1,239	1,230	1,225	1,224	1,227	1,233
Hawaii	19	17	17	18	18	18	18	16	15	14	14
Idaho	12,315	12,785	13,155	13,614	14,109	14,610	15,123	15,654	16,197	16,754	17,330
Illinois	1,894	1,906	1,886	1,884	1,890	1,897	1,906	1,918	1,932	1,949	1,969
Indiana	3,298	3,263	3,259	3,283	3,311	3,336	3,363	3,395	3,431	3,469	3,511
Iowa	4,319	4,275	4,260	4,276	4,298	4,316	4,332	4,353	4,374	4,397	4,422
Kansas	2,381	2,400	2,422	2,461	2,517	2,575	2,628	2,669	2,713	2,757	2,803
Kentucky	1,209	1,133	1,055	996	953	918	888	866	849	839	834
Louisiana	322	284	248	220	196	174	155	139	125	113	103
Maine	604	606	606	609	612	616	619	623	627	631	635
Maryland	1,025	934	889	856	830	809	793	783	779	779	785
Massachusetts	258	251	242	236	230	225	220	216	211	208	205
Michigan	7,650	7,906	7,979	8,103	8,258	8,371	8,471	8,566	8,659	8,749	8,840
Minnesota	8,778	8,685	8,623	8,633	8,666	8,690	8,714	8,747	8,783	8,825	8,875
Mississippi	291	279	255	237	221	206	193	180	169	160	151
Missouri	1,615	1,557	1,488	1,437	1,394	1,353	1,314	1,280	1,249	1,221	1,197
Montana	313	296	285	278	273	268	265	264	264	266	269
Nebraska	1,080	1,046	1,024	1,012	1,007	1,003	1,001	1,002	1,005	1,010	1,018
Nevada	572	555	551	552	556	561	566	572	578	585	593
New Hampshire	296	299	297	297	297	297	297	297	297	298	299
New Jersey	165	163	159	156	153	150	148	145	143	141	140
New Mexico	7,866	7,354	7,253	7,257	7,314	7,389	7,462	7,536	7,611	7,688	7,772
New York	12,420	12,334	12,310	12,346	12,417	12,483	12,550	12,625	12,703	12,785	12,877
North Carolina	888	829	759	698	643	589	534	479	425	371	317
North Dakota	418	384	351	321	295	268	242	216	192	168	144
Ohio	5,113	5,144	5,128	5,145	5,177	5,202	5,224	5,245	5,266	5,287	5,309
Oklahoma	1,067	1,011	960	925	899	877	858	844	834	827	824
Oregon	2,167	2,167	2,143	2,136	2,141	2,148	2,158	2,172	2,188	2,207	2,230
Pennsylvania	10,575	10,548	10,519	10,542	10,576	10,600	10,628	10,666	10,707	10,751	10,804
Rhode Island	20	20	20	20	20	20	20	20	20	20	20
South Carolina	319	315	310	307	305	302	299	297	294	291	288
South Dakota	1,796	1,824	1,847	1,861	1,885	1,910	1,935	1,963	1,993	2,024	2,058
Tennessee	948	902	843	794	754	715	677	641	607	574	542
Texas	8,412	8,510	8,711	8,994	9,286	9,559	9,775	9,984	10,185	10,380	10,574
Utah	1,762	1,705	1,663	1,640	1,627	1,615	1,605	1,598	1,593	1,591	1,591
Vermont	2,577	2,571	2,560	2,561	2,570	2,578	2,586	2,596	2,607	2,618	2,631
Virginia	1,726	1,679	1,618	1,578	1,552	1,530	1,511	1,497	1,487	1,482	1,480
Washington	5,694	5,706	5,684	5,684	5,687	5,689	5,692	5,697	5,702	5,709	5,720
West Virginia	181	167	152	141	133	127	123	120	118	118	120
Wisconsin	24,460	24,155	24,015	24,078	24,257	24,430	24,607	24,805	25,022	25,259	25,523
Wyoming	144	143	140	139	138	137	137	137	137	138	139
United States	189,699	189,406	189,461	190,967	193,216	195,430	197,663	199,989	202,456	205,060	207,883

U.S. All-Milk Prices by State

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Dollars per Hundredweight)											
Alabama	19.90	14.27	15.65	17.48	18.03	18.21	18.39	18.67	18.97	19.28	19.59
Alaska	21.20	15.91	17.07	18.88	19.46	19.70	19.92	20.22	20.54	20.87	21.20
Arizona	17.65	12.34	13.55	15.36	15.93	16.16	16.37	16.67	16.99	17.31	17.64
Arkansas	18.23	12.64	14.00	15.82	16.38	16.57	16.75	17.03	17.34	17.65	17.96
California	16.85	11.74	12.82	14.45	14.90	15.01	15.20	15.48	15.78	16.08	16.38
Colorado	18.40	12.99	14.25	16.07	16.64	16.85	17.05	17.34	17.66	17.97	18.29
Connecticut	19.44	13.94	15.18	16.99	17.56	17.79	17.99	18.29	18.60	18.92	19.25
Delaware	18.23	12.67	13.94	15.75	16.32	16.54	16.73	17.03	17.34	17.66	17.98
Florida	22.64	16.96	18.37	20.21	20.75	20.93	21.09	21.37	21.68	21.98	22.28
Georgia	18.88	13.98	15.37	17.21	17.75	17.94	18.11	18.39	18.69	19.00	19.30
Hawaii	26.22	20.92	22.12	23.93	24.51	24.74	24.95	25.25	25.57	25.89	26.22
Idaho	17.11	11.79	12.97	14.78	15.36	15.60	15.81	16.11	16.43	16.76	17.09
Illinois	19.57	14.18	15.52	17.35	17.90	18.10	18.28	18.57	18.87	19.18	19.49
Indiana	19.21	13.65	14.96	16.79	17.35	17.55	17.74	18.03	18.34	18.65	18.96
Iowa	18.49	13.11	14.43	16.26	16.81	17.01	17.20	17.49	17.80	18.11	18.42
Kansas	19.01	13.56	14.84	16.66	17.22	17.44	17.63	17.92	18.24	18.55	18.87
Kentucky	20.07	14.43	15.77	17.59	18.15	18.35	18.53	18.82	19.12	19.43	19.75
Louisiana	18.78	13.16	14.54	16.37	16.92	17.11	17.28	17.57	17.87	18.18	18.48
Maine	20.37	14.87	16.11	17.92	18.49	18.72	18.92	19.22	19.53	19.85	20.18
Maryland	18.60	13.09	14.34	16.15	16.72	16.94	17.14	17.44	17.75	18.07	18.40
Massachusetts	19.53	14.04	15.27	17.09	17.66	17.88	18.08	18.38	18.70	19.02	19.34
Michigan	19.04	13.53	14.83	16.65	17.21	17.42	17.61	17.90	18.21	18.52	18.84
Minnesota	19.12	13.80	15.26	17.10	17.64	17.80	17.96	18.24	18.54	18.83	19.13
Mississippi	18.97	13.35	14.72	16.56	17.11	17.29	17.46	17.75	18.05	18.36	18.67
Missouri	18.83	13.28	14.61	16.44	17.00	17.19	17.38	17.66	17.97	18.28	18.59
Montana	17.39	12.08	13.53	15.38	15.91	16.08	16.24	16.51	16.81	17.11	17.41
Nebraska	17.48	12.07	13.33	15.15	15.72	15.93	16.13	16.42	16.74	17.05	17.37
Nevada	17.76	12.35	13.59	15.40	15.97	16.20	16.40	16.70	17.01	17.33	17.66
New Hampshire	19.53	14.04	15.27	17.09	17.66	17.88	18.08	18.38	18.70	19.02	19.34
New Jersey	18.23	12.73	13.97	15.78	16.35	16.58	16.78	17.08	17.39	17.71	18.04
New Mexico	17.66	12.21	13.48	15.29	15.86	16.08	16.27	16.57	16.88	17.20	17.52
New York	18.59	13.10	14.34	16.16	16.73	16.95	17.15	17.45	17.76	18.08	18.40
North Carolina	19.34	13.69	15.01	16.83	17.39	17.59	17.78	18.07	18.38	18.69	19.00
North Dakota	17.20	11.89	13.33	15.17	15.71	15.88	16.04	16.32	16.62	16.91	17.21
Ohio	19.77	14.26	15.55	17.37	17.93	18.14	18.33	18.62	18.93	19.25	19.57
Oklahoma	19.44	13.96	15.25	17.07	17.63	17.84	18.03	18.33	18.64	18.95	19.27
Oregon	18.36	13.06	14.23	16.03	16.61	16.86	17.07	17.38	17.70	18.03	18.36
Pennsylvania	20.08	14.58	15.83	17.64	18.21	18.43	18.63	18.93	19.24	19.56	19.88
Rhode Island	19.62	14.13	15.37	17.18	17.75	17.97	18.17	18.47	18.79	19.11	19.43
South Carolina	19.62	13.97	15.28	17.11	17.67	17.87	18.05	18.34	18.65	18.97	19.28
South Dakota	17.76	12.39	13.73	15.56	16.11	16.31	16.49	16.78	17.08	17.39	17.70
Tennessee	18.88	13.24	14.58	16.41	16.96	17.16	17.34	17.63	17.94	18.25	18.56
Texas	18.92	13.46	14.72	16.54	17.11	17.32	17.52	17.81	18.13	18.44	18.76
Utah	17.58	12.17	13.40	15.22	15.79	16.01	16.21	16.51	16.83	17.15	17.47
Vermont	19.53	14.04	15.28	17.09	17.66	17.88	18.09	18.38	18.70	19.02	19.34
Virginia	21.74	16.10	17.41	19.24	19.79	20.00	20.19	20.48	20.79	21.10	21.41
Washington	17.57	12.27	13.44	15.24	15.82	16.07	16.28	16.59	16.91	17.24	17.57
West Virginia	18.41	12.86	14.15	15.97	16.53	16.74	16.93	17.23	17.54	17.85	18.17
Wisconsin	18.93	13.60	15.04	16.88	17.42	17.59	17.75	18.03	18.33	18.63	18.93
Wyoming	17.20	11.79	13.06	14.87	15.44	15.66	15.85	16.15	16.46	16.78	17.10
United States	18.34	12.99	14.23	16.00	16.52	16.70	16.88	17.16	17.45	17.75	18.06

U.S. Dairy Products

Fluid milk consumption is expected to continue to decline over the baseline. As retail milk prices drop, consumption rises in 2009 relative to the 2008 level. Changes in fluid milk consumption are having smaller effects on producer milk prices because a smaller percentage of milk production is used for fluid purposes.

Growth in per capita cheese consumption remains important to the overall dairy outlook. The growth in total per capita cheese consumption occurs in types other than American cheese. American cheese consumption declines by 0.3 pounds over the baseline. Total per capita cheese consumption reaches 34 pounds by 2018, an increase of 1.5 pounds from the 2008 level.

U.S. trade in butter and cheese is normally small relative to production. Thus, domestic production and consumption are similar except when stocks build or decline. With the high global butter prices in 2008, the U.S. more than doubled the percentage of butter production exported. Significantly lower world skim milk powder prices in 2009 will result in the smallest percentage of nonfat dry milk production exported since 2004.

U.S. Dairy Product Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Butter											
Production	1,640	1,535	1,545	1,574	1,589	1,604	1,616	1,621	1,626	1,631	1,637
Imports	20	20	20	20	20	20	20	20	20	20	20
Domestic Use	1,490	1,477	1,499	1,503	1,509	1,520	1,525	1,531	1,535	1,540	1,546
Total Foreign Use	205	75	77	90	99	103	110	110	111	110	110
Ending Stocks	120	123	112	113	114	115	116	117	117	117	118
Government	0	10	0	0	0	0	0	0	0	0	0
Commercial	120	113	112	113	114	115	116	117	117	117	118
CCC Net Rem. inc DEIP	0	10	-10	0	0	0	0	0	0	0	0
American Cheese											
Production	4,047	3,980	3,971	4,030	4,077	4,120	4,157	4,190	4,226	4,263	4,304
Imports	49	49	49	49	49	49	49	49	49	49	49
Domestic Use	3,968	3,904	3,973	4,010	4,030	4,069	4,106	4,140	4,175	4,211	4,251
Total Foreign Use	114	67	73	82	91	92	93	94	94	95	96
Ending Stocks	523	582	556	544	550	558	566	571	577	583	590
Government	0	30	10	0	0	0	0	0	0	0	0
Commercial	523	552	546	544	550	558	566	571	577	583	590
CCC Net Rem. inc DEIP	0	30	-20	-10	0	0	0	0	0	0	0
Other Cheese											
Production	5,791	5,872	6,004	6,107	6,261	6,368	6,473	6,579	6,692	6,810	6,938
Imports	365	369	372	376	380	384	387	391	395	399	403
Domestic Use	5,927	6,085	6,236	6,321	6,471	6,573	6,676	6,780	6,891	7,008	7,133
Total Foreign Use	211	138	139	157	162	170	176	182	188	193	199
Ending Stocks	307	325	327	331	339	349	357	365	373	381	390
Nonfat Dry Milk											
Production	1,826	1,475	1,439	1,532	1,574	1,629	1,686	1,751	1,822	1,897	1,977
Imports	1	1	1	1	1	1	1	1	1	1	1
Domestic Use	936	977	1,076	1,179	1,010	951	957	971	1,006	1,045	1,089
Total Foreign Use	850	376	419	515	563	675	727	777	812	848	883
Ending Stocks	200	323	268	106	109	112	116	120	125	131	136
Government	80	218	166	0	0	0	0	0	0	0	0
Commercial	120	105	102	106	109	112	116	120	125	131	136
CCC Net Rem. inc DEIP	115	138	-52	-166	0	0	0	0	0	0	0
Evap. and Condensed Milk											
Production	775	785	778	766	761	762	763	765	767	770	773
Imports	11	11	11	11	11	11	11	11	11	11	11
Domestic Use	691	706	702	691	685	685	686	688	691	693	696
Total Foreign Use	88	88	88	88	88	88	88	88	88	88	88
Ending Stocks	45	48	47	46	45	45	45	46	46	46	47

U.S. Dairy Product Supply and Utilization (continued)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Per Capita Consumption											
Butter	4.9	4.8	4.8	4.8	4.8	4.7	4.7	4.7	4.7	4.6	4.6
Nonfat Dry Milk	3.1	3.2	3.5	3.7	3.2	3.0	3.0	3.0	3.1	3.1	3.2
Total Cheese	32.4	32.4	32.8	32.9	33.1	33.2	33.3	33.4	33.5	33.7	33.9
American	13.0	12.7	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6
Other	19.4	19.7	20.0	20.1	20.4	20.5	20.6	20.8	20.9	21.0	21.2
Total Fluid Milk	194.7	198.5	195.6	192.6	191.0	189.6	188.4	187.3	186.2	185.2	184.3
Whole	51.5	51.6	49.9	48.2	46.8	45.5	44.3	43.0	41.8	40.7	39.5
2%	58.5	60.4	60.2	60.1	60.2	60.4	60.6	60.8	61.0	61.2	61.5
Lowfat	59.3	60.3	59.3	58.3	57.6	57.0	56.5	55.9	55.4	54.9	54.4
Other	25.4	26.3	26.2	26.1	26.4	26.7	27.1	27.5	27.9	28.4	28.9
Ice Cream	23.4	23.7	23.6	23.4	23.4	23.3	23.2	23.1	23.1	23.0	23.0
Wholesale Prices											
(Cents per Pound)											
Butter, CME	146.3	123.8	136.5	150.5	153.2	154.9	155.1	159.0	163.4	168.3	173.2
Cheese, Am., 40#, CME	185.6	137.0	150.8	166.9	170.7	170.8	172.0	174.2	176.7	179.1	181.5
Nonfat Dry Milk, AA	130.0	84.7	85.1	97.3	102.4	104.8	108.4	110.6	112.7	114.8	116.9
Evaporated	172.2	154.3	159.6	170.8	178.6	182.1	185.5	188.4	191.3	194.2	197.2
Retail Prices											
(Dollars per Pound)											
Cheese, Natural Cheddar	4.73	4.14	4.14	4.35	4.51	4.62	4.68	4.71	4.77	4.84	4.91
Milk, Fresh, Whole Fortified	3.80	3.00	3.20	3.44	3.50	3.51	3.53	3.56	3.60	3.64	3.68
Ice Cream (half gallon)	4.21	3.61	3.59	3.72	3.71	3.75	3.81	3.87	3.93	3.99	4.06

U.S. AGGREGATE MEASURES

U.S. Land Use

After large swings in 2007 and 2008, little change is projected in corn and soybean areas for 2009. Actual plantings will depend on market developments in the spring of 2009, as the weather and relative corn, soybean, and fertilizer prices will affect production choices.

Wheat area falls sharply in 2009 in response to lower wheat prices and weather conditions that inhibited winter wheat seedings.

Weak cotton returns relative to other crops led to sharp reductions in cotton area in 2007 and 2008. A further smaller decline in cotton area is expected in 2009.

Sorghum area recovered in 2007 and 2008 because of strong returns, but weaker sorghum prices result in lower 2009 sorghum area.

Rice area increased in 2008, and a further increase is projected for 2009. Recent declines in rice prices make rice area especially uncertain.

Because of higher returns to many crops, the total area planted to 13 major crops increased by 10 million acres between 2006 and 2008. Total 13-crop planted area falls by 4 million acres in 2009 in response to weaker returns.

Including changes in hay and CRP area, the reduction in total land use is slightly smaller. Correcting for a drop in double-crop soybean area, total land use declines by less than 2 million acres.

U.S. Land Use for Major Crops

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Planted Area						(Million Acres)					
Corn	85.98	86.45	87.74	87.91	88.45	88.75	89.73	90.58	90.64	90.44	90.30
Soybeans	75.72	75.03	75.38	76.14	76.54	76.85	76.81	76.80	77.06	77.38	77.66
Wheat	63.15	59.68	60.05	59.55	59.26	58.95	58.62	58.36	58.17	58.00	57.81
Upland Cotton	9.30	8.65	8.51	8.39	8.35	8.25	8.25	8.34	8.38	8.44	8.49
Sorghum	8.28	7.83	7.71	7.61	7.56	7.53	7.55	7.60	7.60	7.61	7.62
Barley	4.23	4.38	4.40	4.35	4.32	4.28	4.25	4.20	4.14	4.07	4.00
Oats	3.22	3.55	3.56	3.50	3.43	3.38	3.32	3.27	3.23	3.20	3.17
Rice	3.00	3.15	3.00	2.74	2.76	2.84	2.90	2.99	3.02	2.98	2.94
Sunflowers	2.52	2.37	2.43	2.47	2.46	2.45	2.44	2.43	2.43	2.43	2.43
Peanuts	1534.00	1394.82	1421.41	1424.14	1422.19	1410.98	1407.20	1410.11	1407.35	1406.38	1405.14
Canola	1011.00	1007.92	1103.17	1175.07	1185.02	1196.52	1212.95	1231.42	1253.16	1270.80	1283.87
Sugar Beet	1.09	1.21	1.24	1.22	1.21	1.21	1.20	1.20	1.20	1.20	1.20
Sugarcane	0.87	0.87	0.90	0.90	0.89	0.88	0.88	0.88	0.88	0.87	0.87
13 Crop Planted Area	259.89	255.58	257.45	257.40	257.83	257.98	258.57	259.30	259.43	259.29	259.17
Hay Harvested Area	60.06	61.74	61.90	61.79	61.61	61.48	61.36	61.26	61.22	61.21	61.23
13 Crops + Hay	319.96	317.31	319.35	319.18	319.44	319.45	319.93	320.55	320.64	320.51	320.40
Conservation Reserve	34.66	33.70	32.00	30.50	30.00	30.00	30.00	30.00	30.00	30.00	30.00
13 Crops + Hay + CRP	354.62	351.02	351.35	349.68	349.45	349.46	349.93	350.55	350.64	350.51	350.41
Double Crop Area	7.18	5.19	6.00	6.00	6.01	6.01	6.01	6.02	6.03	6.03	6.02
Total Corrected for Double Crop	347.44	345.82	345.35	343.68	343.44	343.45	343.92	344.53	344.62	344.48	344.38

U.S. Food Prices and Expenditures

After posting its largest increase since 1991 in 2007, the CPI for food registered an even larger increase in 2008. As food commodity prices and other costs associated with the marketing of food products weaken, food price inflation will return to more historical levels.

CPIs for food away from home and fruits and vegetables are expected to show some of the largest percentage increases in the next decade.

Approximately 20% of the cost of food is generated by the farm value of the food itself, with the remainder due to other costs in the food marketing chain.

Retailers prefer to avoid volatile food pricing strategies, so although factors determining the consumer cost of food can quickly vary, price stickiness at the retail level moderates volatility.

Labor, energy, and other costs comprising the food marking cost index are projected by IHS Global Insight to grow more slowly in the next decade.

Food expenditures per person will drop in 2009 for the first time since 1992. A depressed economy, lower farm commodity and energy prices, and reduced consumption of meat products will all contribute to the decline.

Food spending will increase slightly in real terms over the next decade but will decline as a portion of income.

U.S. Consumer Price Indexes for Food

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Food	214.1	219.9	223.4	229.5	236.6	243.1	249.1	253.9	258.6	263.8	269.3
Food at Home	214.1	218.1	219.8	225.7	232.8	239.2	244.8	249.2	253.2	257.8	262.7
Cereal and Bakery	244.9	246.9	243.4	248.0	253.9	259.6	264.5	268.0	271.1	274.8	278.7
Meat	204.7	208.1	210.5	216.3	223.0	228.6	233.3	237.0	240.3	244.2	248.4
Dairy	210.4	210.0	211.6	220.2	228.9	235.8	242.1	247.5	252.7	258.5	264.7
Fruit and Vegetables	278.9	285.8	286.9	295.6	306.8	317.3	326.6	333.6	340.2	347.7	355.6
Other Food At Home	184.2	190.0	194.4	198.3	203.3	208.1	212.5	215.9	219.0	222.5	226.2
Sugar and Sweets	186.6	193.1	197.7	202.6	207.2	212.0	216.4	220.0	223.4	227.1	230.9
Fats and Oils	196.8	200.6	206.4	211.2	217.2	222.3	226.9	230.2	233.2	236.8	240.5
Other Prepared Items	198.1	204.4	209.0	213.2	218.3	223.2	227.6	231.2	234.5	238.3	242.2
Non-alc. Beverages	160.0	165.5	169.1	172.1	176.9	181.6	185.9	189.1	191.9	195.0	198.3
Food Away From Home	215.8	223.9	229.5	235.8	243.0	249.6	255.9	261.3	266.7	272.6	278.9

U.S. Per Capita Consumer Expenditures for Food

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Food at Home	1,989	1,956	1,989	2,056	2,127	2,188	2,242	2,279	2,312	2,351	2,393
Food Away From Home	1,751	1,750	1,790	1,851	1,915	1,971	2,026	2,074	2,122	2,177	2,236
Total	3,739	3,706	3,779	3,908	4,042	4,160	4,267	4,352	4,434	4,527	4,629
Aggregate Total	1,141.8	1,142.7	1,176.7	1,228.5	1,282.9	1,333.1	1,380.8	1,421.9	1,462.5	1,507.6	1,556.1

U.S. Government Costs

Net CCC outlays fell in FY 2007 and FY 2008, as expenditures declined on programs tied to commodity prices. Expenditures rebound in FY 2009, due in part to lower crop and milk prices.

The first payments under the ACRE program occur in October 2010, which is part of FY 2011. The last tobacco trust fund payments are made in FY 2014.

Mandatory government outlays under the crop insurance program and certain conservation programs are not included in the CCC account.

Crop insurance outlays increase with crop prices, as premiums and premium subsidies increase with crop values. Crop insurance outlays dip in FY 2012 because of mandated changes in when producers pay premiums and when companies are reimbursed for expenses.

CRP spending reflects changes in CRP area under contract and increased rental rates when new contracts are signed.

For other mandatory conservation programs, projected expenditures are based on preliminary estimates from the Congressional Budget Office.

Provisions of the 2008 farm bill lead to increased spending on the Conservation Stewardship Program, the Environmental Quality Incentive Program, and other conservation programs.

U.S. Net Government Outlays

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million U.S. Dollars, Fiscal Year)											
Feed Grains											
Corn	1,856	2,178	1,784	2,498	1,523	1,885	1,836	1,865	1,851	1,844	1,784
Sorghum	201	189	172	245	168	176	177	175	176	176	175
Barley	82	80	70	95	90	71	70	70	71	71	71
Oats	3	3	3	10	11	5	6	5	4	5	6
Food Grains											
Wheat	869	1,183	991	1,711	1,185	1,017	1,021	1,036	1,049	1,039	1,041
Rice	301	427	405	396	357	408	409	409	410	407	407
Oilseeds											
Soybeans	446	614	510	1,542	527	614	600	548	533	513	520
Peanuts	144	179	168	182	118	146	140	130	123	124	122
Other Oilseeds	22	21	15	40	16	18	19	19	19	19	19
Other Commodities											
Upland Cotton	1,604	2,028	2,184	1,752	1,084	1,408	1,331	1,223	1,132	1,081	1,021
Sugar	-35	0	0	0	0	0	0	0	0	0	0
Dairy	92	613	14	-127	0	0	0	0	0	0	0
CCC Conservation											
Conservation Reserve	1,927	1,935	1,936	1,962	1,982	2,097	2,198	2,178	2,181	2,205	2,261
Other CCC Conservation	10	27	31	4	2	2	2	2	2	2	2
Tobacco Trust Fund	960	960	960	960	960	960	960	0	0	0	0
Other											
Disaster Payments, NAP	99	96	96	96	96	96	96	96	96	96	96
Other Net Costs	367	541	573	695	741	740	737	730	733	736	737
Net CCC Outlays	8,948	11,076	9,911	12,062	8,861	9,644	9,603	8,488	8,380	8,320	8,263
NRCS Conservation	1,762	2,046	2,640	3,164	3,615	3,682	3,714	3,735	4,027	4,205	4,374
Crop Insurance	4,151	7,109	7,482	7,647	5,357	8,000	8,269	8,492	8,665	8,713	8,774
Total Mandatory Outlays	14,861	20,231	20,033	22,873	17,834	21,327	21,586	20,715	21,071	21,238	21,411

Note: "NRCS Conservation" denotes mandatory spending on conservation programs authorized by the 2002 farm bill that is not included in reported CCC outlays.

U.S. Cash Receipts from Farm Marketings

Cash receipts from sales of program crops (grains, oilseeds, and sugar) almost doubled between 2005 and 2008.

Prices of most program crops decline in calendar year 2009, resulting in lower cash receipts. Program crop receipts begin to increase again after 2010 because of slowly rising production and prices for most crops, but they take years to recover to the 2008 level.

Other crop receipts vary less from year to year, although they are also expected to dip slightly in 2009. Sales of fruits, vegetables, nursery crops, and other miscellaneous crops increase steadily after 2009.

Sharply lower milk prices in 2009 result in a large reduction in dairy cash receipts. Cattle and poultry receipts also decline slightly in 2009.

Dairy and livestock receipts increase in 2010 and later years, as the assumed recovery in the U.S. and global economies leads to increased demand for animal products.

U.S. Cash Receipts from Farming

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Billion U.S. Dollars)											
Cash Receipts	324.25	293.65	301.75	314.31	324.59	332.94	342.75	352.11	360.32	368.09	375.98
Crops	181.11	163.52	163.56	168.93	174.96	180.85	187.49	193.39	198.31	202.30	206.34
Feed Grains and Hay	61.43	51.58	51.14	52.81	55.08	57.17	59.94	62.29	63.88	64.72	65.56
Corn	50.67	41.80	41.72	43.38	45.55	47.44	49.97	52.05	53.40	53.99	54.58
Sorghum	1.76	1.39	1.34	1.35	1.39	1.43	1.48	1.52	1.54	1.56	1.58
Barley	1.01	0.97	0.91	0.93	0.95	0.97	0.99	1.00	0.99	0.98	0.97
Oats	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14
Hay	7.78	7.21	6.98	6.94	6.99	7.12	7.30	7.53	7.75	7.99	8.23
Millet	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Food Grains	19.53	15.42	14.01	14.12	14.36	14.82	15.30	15.71	16.00	16.14	16.23
Wheat	16.13	12.19	11.31	11.64	11.92	12.22	12.54	12.79	12.94	13.07	13.17
Rice	3.38	3.20	2.68	2.45	2.41	2.57	2.73	2.89	3.03	3.04	3.03
Rye	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Oilseeds	29.08	27.87	27.62	28.64	29.94	31.07	32.18	33.09	33.81	34.40	34.99
Soybeans	26.93	25.92	25.74	26.66	27.90	29.01	30.08	30.96	31.65	32.22	32.79
Peanuts	0.90	0.95	0.87	0.91	0.94	0.96	0.97	0.98	0.99	1.00	1.01
Other	1.24	1.01	1.01	1.07	1.09	1.11	1.13	1.15	1.17	1.18	1.19
Cotton	4.99	4.29	4.44	4.54	4.57	4.64	4.74	4.88	5.01	5.14	5.27
Sugar	2.14	2.21	2.33	2.33	2.34	2.38	2.42	2.46	2.47	2.49	2.51
Other Crops *	63.94	62.14	64.02	66.49	68.67	70.77	72.91	74.97	77.14	79.41	81.78
Livestock and Products	143.14	130.13	138.18	145.38	149.64	152.09	155.27	158.71	162.01	165.79	169.63
Red Meats	66.04	64.98	70.19	72.65	74.36	74.89	75.96	77.13	78.14	79.70	81.25
Cattle, Calves	49.53	48.46	52.47	54.10	55.17	55.78	56.68	57.51	58.24	59.16	59.97
Hogs	16.04	16.05	17.26	18.09	18.72	18.65	18.82	19.16	19.43	20.08	20.82
Sheep, Lambs	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
Dairy Products	35.72	24.63	26.99	30.59	31.96	32.67	33.39	34.34	35.36	36.43	37.57
Poultry, Eggs	36.38	35.75	36.00	36.93	37.95	39.07	40.33	41.55	42.70	43.71	44.74
Broilers	23.42	23.52	23.96	24.82	25.57	26.36	27.24	28.08	28.93	29.71	30.49
Turkeys	4.28	4.10	4.16	4.28	4.37	4.48	4.61	4.75	4.87	4.97	5.07
Chicken Eggs	7.85	7.26	6.98	6.88	7.01	7.17	7.37	7.56	7.68	7.77	7.86
Other Poultry	0.82	0.86	0.90	0.95	1.00	1.06	1.11	1.16	1.22	1.27	1.32
Other Livestock †	5.00	4.77	5.00	5.22	5.36	5.47	5.58	5.70	5.81	5.94	6.08
Government Payments	12.40	11.92	14.19	12.11	11.93	11.99	11.94	10.92	11.05	11.08	11.36
Cash Receipts + Payments	336.65	305.56	315.94	326.42	336.52	344.94	354.69	363.02	371.37	379.17	387.33

* Includes tobacco, vegetables and melons, fruits and tree nuts, and other crops.

† Includes horses, mules, and aquaculture.

U.S. Farm Production Expenses

Farm production expenses increased sharply between 2002 and 2008, primarily because of large increases in spending on fertilizer, fuel, and feed.

Lower prices for these key inputs result in lower farm expenditures in 2009. Fertilizer, fuel, and feed expenditures all increase after 2010 in response to rising prices for energy and grain.

Other farm production expenses also decline in 2009. Lower short-term interest rates result in lower interest expenditures, stagnant wages result in a slight decline in contract and hired labor costs, and declines in raw material prices also result in a drop in a variety of other cost categories.

Rental payments to nonoperator landlords are sensitive to crop returns and expenses. Lower crop returns could result in reduced rental payments in 2010.

After 2010, the growth in total production expenses averages 2.3% per year.

U.S. Farm Production Expenses

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Billion U.S. Dollars)											
Farm-Origin Inputs	78.27	74.50	74.23	75.85	77.96	80.02	82.50	84.35	85.76	86.84	87.66
Feed	45.23	41.27	39.27	39.38	40.26	41.26	42.74	44.04	44.94	45.42	45.91
Purchased Livestock	17.75	17.91	19.49	20.32	20.99	21.37	21.81	22.04	22.22	22.47	22.48
Seed	15.30	15.32	15.48	16.15	16.71	17.39	17.95	18.26	18.60	18.94	19.28
Manufactured Inputs	59.01	52.80	51.67	54.54	56.76	58.85	59.99	59.79	60.19	60.74	61.28
Fertilizer, Lime	27.45	24.07	23.54	24.91	25.90	26.93	27.75	27.97	28.26	28.50	28.72
Petroleum Fuel, Oils	16.27	14.13	13.72	14.92	15.95	16.77	16.95	16.52	16.49	16.60	16.71
Electricity	4.26	4.19	4.13	4.31	4.43	4.53	4.56	4.51	4.52	4.56	4.60
Pesticides	11.03	10.41	10.28	10.39	10.48	10.61	10.73	10.80	10.93	11.08	11.25
Interest Charges	14.72	13.88	15.05	17.04	18.37	19.30	20.10	20.74	21.30	21.87	22.44
Short-Term Interest	6.91	5.93	6.71	8.00	8.65	9.03	9.34	9.49	9.58	9.68	9.77
Real Estate Interest	7.81	7.95	8.34	9.04	9.72	10.27	10.76	11.25	11.72	12.19	12.67
Other Operating Exp.	89.70	85.98	86.26	88.42	90.17	92.40	94.37	95.65	97.24	98.88	100.59
Repair, Operation of Capital Items	15.52	14.95	15.02	15.22	15.36	15.59	15.84	16.01	16.16	16.30	16.43
Contract, Hired Labor	26.99	26.27	26.53	26.85	27.11	27.62	28.26	28.91	29.61	30.34	31.12
Machine Hire											
Custom Work	4.15	3.86	3.86	3.87	3.86	3.89	3.92	3.95	4.01	4.09	4.19
Marketing, Storage, and Transportation	10.93	10.08	10.03	10.55	10.98	11.36	11.54	11.52	11.64	11.79	11.95
Miscellaneous	32.10	30.83	30.82	31.93	32.85	33.94	34.81	35.26	35.82	36.35	36.89
Other Overhead Exp.	48.89	50.89	51.46	52.38	53.18	54.16	55.43	56.97	58.66	60.33	61.96
Capital Consumption	28.36	28.97	29.46	29.95	30.31	30.69	31.16	31.71	32.34	33.02	33.74
Property Taxes	10.19	10.62	11.02	11.39	11.73	12.04	12.36	12.69	13.04	13.41	13.78
Rent to Nonoperators	10.34	11.31	10.98	11.04	11.13	11.43	11.91	12.56	13.27	13.90	14.44
Production Expenses	290.59	278.05	278.67	288.22	296.44	304.74	312.39	317.50	323.15	328.65	333.93
Noncash Expenses	25.36	25.98	26.48	26.96	27.33	27.71	28.19	28.75	29.38	30.07	30.79
Labor Perquisites	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39
Net Cap Consumption	25.01	25.62	26.12	26.60	26.97	27.34	27.81	28.37	29.00	29.68	30.40
Op. Dwelling Expenses	4.32	4.42	4.54	4.67	4.79	4.90	5.01	5.12	5.21	5.32	5.43
Cash Expenses	260.90	247.65	247.65	256.60	264.32	272.12	279.18	283.63	288.55	293.27	297.72

U.S. Prices Paid by Farmers

Prices paid by farmers for all production items increased by 22% in 2008 in response to higher prices for fuel, fertilizer, and a wide range of other inputs. Sharply lower prices for fuel, nitrogen fertilizer, and feed account for much of the significant decline in prices paid by farmers in 2009.

Strong demand caused by high crop prices and production, high energy prices, and variety of other factors contributed to the sharp increase in fertilizer prices in 2008. Lower farm commodity prices and the sharp drop in energy prices are major factors behind the decline in fertilizer prices in 2009.

Fuel prices remain a major source of uncertainty in the baseline. Changes in petroleum and natural gas prices directly affect fuel and energy costs to producers and have at least secondary effects on many other cost categories.

The weak U.S. economy puts downward pressure on agricultural wage rates in 2009 and also affects a variety of cost categories. Farm cost inflation resumes after 2010 but remains moderate throughout the baseline.

U.S. Indices of Prices Paid by Farmers

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Production, Interest,	(1990-92=100)										
Taxes and Wages	185	170	172	178	182	187	190	191	193	195	197
Production Items	196	180	179	185	191	195	199	200	201	203	205
Feed	191	179	173	172	177	182	187	190	190	190	188
Livestock & Poultry	174	173	180	186	193	196	197	197	196	198	198
Seeds	261	251	253	263	272	283	291	295	300	306	311
Fertilizer	395	349	342	365	379	393	403	404	407	411	414
Mixed Fertilizer	408	366	369	393	411	425	435	438	442	446	450
Nitrogen Fertilizer	355	297	277	297	306	322	331	330	332	334	336
Potash and Phosph.	487	440	442	472	491	507	517	521	526	531	536
Agricultural Chemicals	141	133	131	133	134	135	137	137	139	141	144
Herbicides	130	122	118	119	120	121	122	122	123	125	126
Insecticides	163	156	156	160	161	163	164	165	168	172	176
Fungicides/Other	152	143	143	147	149	152	155	157	159	162	165
Fuels	345	286	274	299	322	339	342	331	329	331	332
Supplies & Repairs	154	147	148	151	153	156	158	159	160	161	162
Farm Supplies	145	134	135	140	143	146	147	146	146	147	147
Repairs	159	154	155	156	158	161	163	165	167	168	169
Autos & Trucks	108	97	101	105	106	107	108	108	108	109	110
Farm Machinery	207	190	191	196	198	202	207	211	217	224	231
Building Materials	166	142	144	150	153	158	161	162	163	165	167
Farm Services	153	141	140	141	140	140	140	140	142	145	148
Rent	163	142	149	160	166	172	176	178	180	182	184
Interest *	164	130	143	168	181	188	194	197	198	200	202
Taxes †	203	175	190	202	207	214	219	221	225	230	234
Wage Rates	184	180	183	183	186	190	194	199	204	210	215

* Interest per acre on farm real estate debt and interest rate on farm non-real estate debt.

† Farm real estate taxes payable per acre.

U.S. Indices of Prices Paid by Farmers (percent change)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Production, Interest,	(Percentage Change)										
Taxes and Wages	17.9	-8.1	0.7	3.6	2.6	2.4	1.7	0.6	0.9	1.1	1.1
Production Items	21.8	-8.4	-0.1	3.4	2.7	2.6	1.7	0.4	0.8	1.1	1.0
Feed	27.7	-6.3	-3.3	-0.4	3.0	2.6	2.9	1.6	-0.1	-0.2	-0.6
Livestock & Poultry	12.1	-0.9	4.3	3.3	3.5	1.4	0.7	0.0	-0.3	0.6	0.4
Seeds	27.5	-3.8	0.5	4.3	3.2	4.0	2.9	1.4	1.8	1.9	1.8
Fertilizer	77.6	-11.7	-1.9	6.5	3.9	3.8	2.5	0.2	0.8	0.8	0.7
Mixed Fertilizer	89.7	-10.2	0.9	6.5	4.5	3.5	2.3	0.5	1.0	1.0	0.9
Nitrogen Fertilizer	51.1	-16.2	-6.8	7.0	3.3	5.0	3.0	-0.5	0.7	0.7	0.5
Potash and Phosph.	134.3	-9.7	0.4	6.9	4.0	3.1	2.1	0.7	1.0	1.0	0.9
Agricultural Chemicals	8.1	-5.8	-1.6	1.6	0.7	1.3	0.9	0.4	1.3	1.6	1.7
Herbicides	5.9	-6.2	-2.8	0.9	0.5	1.1	0.6	0.0	0.8	1.2	1.3
Insecticides	9.5	-4.3	-0.1	2.3	0.6	1.0	0.9	0.8	1.8	2.2	2.2
Fungicides/Other	12.9	-6.2	0.2	2.6	1.4	2.3	1.8	0.9	1.6	1.8	1.9
Fuels	30.1	-17.0	-4.3	9.1	7.6	5.4	0.7	-3.1	-0.4	0.5	0.4
Supplies & Repairs	3.3	-4.6	0.5	1.8	1.4	1.8	1.4	0.6	0.7	0.6	0.6
Farm Supplies	3.9	-8.0	1.1	3.8	1.7	2.1	0.9	-0.5	0.1	0.3	0.4
Repairs	3.5	-3.0	0.3	1.0	1.2	1.7	1.6	1.2	0.9	0.8	0.7
Autos & Trucks	-2.3	-10.4	4.1	3.9	1.1	1.1	0.3	-0.2	0.5	0.8	0.9
Farm Machinery	8.0	-8.3	0.9	2.3	1.1	2.2	2.2	2.1	2.9	3.1	3.2
Building Materials	7.1	-14.4	1.5	4.1	2.3	2.9	2.0	0.7	1.0	1.0	0.9
Farm Services	4.9	-8.2	-0.7	1.0	-0.7	0.2	0.0	-0.2	1.2	2.0	2.5
Rent	7.7	-12.6	4.6	7.5	4.2	3.5	2.1	1.0	1.3	1.2	1.1
Interest *	6.4	-20.9	10.5	17.0	8.1	4.1	2.9	1.3	0.8	0.9	0.9
Taxes †	8.0	-13.8	8.8	6.2	2.4	3.5	2.1	1.0	1.8	2.1	2.1
Wage Rates	3.9	-1.8	1.2	0.5	1.4	2.0	2.3	2.6	2.6	2.6	2.7

* Interest per acre on farm real estate debt and interest rate on farm non-real estate debt.

† Farm real estate taxes payable per acre.

U.S. Net Farm Income

Based on preliminary USDA estimates, nominal net farm income reached record levels in 2008. A sharp increase in crop receipts and a modest increase in livestock receipts more than offset the effects of a sharp increase in production costs.

In 2009, net farm income is expected to decline by almost \$18 billion. Lower farm commodity prices result in sharp reductions in both crop and livestock receipts. The decline in net farm income is moderated by a reduction in farm production expenses.

Net farm income begins to recover in 2010 as livestock and dairy receipts again increase. Nominal net farm income again reaches record levels in 2013, but inflation-corrected real net farm income does not reach the 2008 level until 2018.

Government payments are a smaller share of gross and net farm income than they were in 2005 and 2006. Payments increase in 2010 when the first payments under the ACRE program are issued.

U.S. Farm Income Statistics

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Billion U.S. Dollars)											
1. Farm Receipts	341.92	311.72	320.05	333.12	343.71	352.52	362.75	372.40	380.89	388.94	397.14
Crops	181.11	163.52	163.56	168.93	174.96	180.85	187.49	193.39	198.31	202.30	206.34
Livestock	143.14	130.13	138.18	145.38	149.64	152.09	155.27	158.71	162.01	165.79	169.63
Farm-Related *	17.67	18.08	18.30	18.81	19.12	19.58	19.99	20.30	20.56	20.85	21.16
2. Government Payments	12.40	11.92	14.19	12.11	11.93	11.99	11.94	10.92	11.05	11.08	11.36
3. Gross Cash Income (1 + 2)	354.32	323.64	334.25	345.23	355.63	364.52	374.68	383.32	391.94	400.03	408.49
4. Nonmoney Income	25.29	26.03	26.82	27.70	28.48	29.17	29.83	30.41	30.96	31.57	32.21
5. Value of Inventory Change	0.29	0.19	0.29	0.05	0.64	0.67	1.12	1.23	0.89	0.66	0.38
6. Gross Farm Income (3 + 4 + 5)	379.91	349.85	361.35	372.98	384.76	394.35	405.63	414.96	423.79	432.26	441.08
7. Cash Expenses †	260.90	247.65	247.65	256.60	264.32	272.12	279.18	283.63	288.55	293.27	297.72
8. Total Expenses	290.59	278.05	278.67	288.22	296.44	304.74	312.39	317.50	323.15	328.65	333.93
9. Net Cash Income (3 - 7)	93.42	75.99	86.59	88.63	91.31	92.39	95.50	99.69	103.39	106.76	110.78
10. Realized Net Farm Income (3 + 4 - 8)	89.03	71.61	82.40	84.70	87.68	88.95	92.12	96.23	99.75	102.95	106.77
11. Net Farm Income (6 - 8) Deflated (1997 \$) ‡	89.32	71.80	82.69	84.76	88.32	89.62	93.24	97.46	100.64	103.61	107.15
	69.55	55.29	62.89	63.44	64.97	64.54	65.66	67.19	68.03	68.72	69.75

* Income from machine hire, custom work, sales of forest products, and other miscellaneous cash sources.

† Excludes capital consumption, perquisites to hired labor, and farm household expenses.

‡ Deflated by the GNP price deflator, 1997=1.

U.S. Crop Insurance

Crop insurance continues to expand. The number of net acres insured increased to 272.36 million acres in 2008. More crops and areas are being covered by crop insurance and the expansion is expected to continue through 2009 and beyond.

Total premiums increased to \$9.86 billion in 2008, roughly a 50% jump from 2007. The significantly higher crop prices experienced in 2008 propped up insurance prices, premiums, and liabilities. The continuation of relatively higher crop prices over the projection period will likely keep total premium levels in the \$8 billion to \$10 billion range.

Premium subsidies rose to \$5.69 billion in 2008. As with premiums, the higher crop prices coincide with higher premium subsidy levels. For 2009, premium subsidies are projected to decline to \$4.79 billion, mainly because of lower insurance prices for 2009. Over the projection period, premium subsidies are expected to maintain at around \$5 billion per year.

Despite the planting and harvesting issues producers faced in 2008, the 2008 crop year marked the sixth year in a row in which premiums exceeded indemnities. Over the projection period, total indemnities follow a pattern similar to that of total premiums. Loss ratios of one indicate that "actuarially fair" premiums are being charged for the insurance products. These projections show that, overall, federal crop insurance will meet the loss ratio targets set by Congress.

Total obligations represent the federal government's financial responsibility to crop insurance. They are the costs for crop insurance before considering any crop insurance revenues. Total obligations are equal to the sum of indemnities, delivery expenses, administrative and operating expenses, agent commissions, and other expenses. Total obligations for FY 2009 are projected to reach nearly \$10 billion.

Net outlays take underwriting costs and crop insurance revenues into account. Net outlays are estimated at \$7 billion for FY 2009. Outlays are expected to rise until 2012 when the crop insurance premium timing is shifted forward, as required by the 2008 farm bill.

Budget authority is the amount the law allows the federal government to spend on a program. For crop insurance, it represents net outlays on a crop-year basis. Budget authority for FY 2009 is projected at \$7 billion. Budget authority projections follow a pattern similar to that of net outlays.

U.S. Crop Insurance

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Acres)											
Eligible Acres	593.17	676.02	677.65	677.50	677.97	678.13	678.73	679.44	679.55	679.41	679.28
Net Acres Insured	272.36	274.48	277.29	278.02	278.95	279.47	280.30	281.19	281.56	281.72	281.89
(Percent)											
Crop Insurance Participation Rate	45.92	40.60	40.92	41.04	41.15	41.21	41.30	41.39	41.43	41.47	41.50
(Billion U.S. Dollars, Crop Year)											
Total Premiums	9.86	8.25	8.38	8.69	8.88	9.18	9.43	9.62	9.68	9.74	9.80
Producer-Paid Premiums	4.16	3.47	3.52	3.65	3.73	3.86	3.97	4.05	4.07	4.10	4.12
Premium Subsidies	5.69	4.79	4.86	5.04	5.15	5.32	5.47	5.58	5.61	5.65	5.68
Total Indemnities	7.89	8.25	8.38	8.69	8.88	9.18	9.43	9.62	9.68	9.74	9.80
Loss Ratio	0.80	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
(Billion U.S. Dollars, Fiscal Year)											
Total Obligations	7.16	9.76	9.72	9.87	10.24	10.47	10.82	11.11	11.34	11.40	11.48
Net Outlays	4.15	7.11	7.48	7.65	5.36	8.00	8.27	8.49	8.66	8.71	8.77
Budget Authority	4.22	6.96	7.45	7.56	4.22	7.88	8.17	8.42	8.64	8.69	8.75

WORLD WHEAT

World Wheat

The world wheat price is lower in 2008/09, at \$289.20 per mt. It is projected to decrease to \$224.90 per mt in 2009/10 because of high carryover stocks that increase the supply. The average annual growth rate of the wheat price is -1% over the next 10 years when the price drops sharply in 2009/10 but then increases in every year between 2010/11 and 2018/19. The stocks-to-use ratio is higher, at 22.7%, in 2008/09. It is projected to increase to 23.9% by 2018/19.

Wheat area was larger in 2008/09 because of increases in U.S., Australian, Canadian, and EU wheat area. Wheat area is projected to increase further, by 1.2 mha in 2009/10, for a total of 225.2 mha. Production decreases to 672.1 mmt in 2009/10 despite an area increase because of a return to average yields. Production reaches 715.5 mmt by 2018/19. Consumption grows 0.9% annually on average, reaching 714.4 mmt in 2018/19.

World wheat net trade increases in 2008/09 because of a higher supply of wheat in some of the major exporting countries. It increases to 99.4 mmt in 2009/10 because of an increase in supply, which decreases the wheat price. Net trade grows 1.8% annually on average, reaching 118.6 mmt in 2018/19.

Record yields and higher area increased EU wheat production and net exports in 2008/09. Production is projected to decline in 2009/10 with a return to average yields. Food and industrial use reaches 75.2 mmt in 2018/19, while feed use reaches 60.3 mmt by 2018/19. Net exports reach 15 mmt by the end of the projection period.

In Argentina, both area and yields are projected to increase in 2009/10, thus increasing production to 14.6 mmt. In the longer term, production growth comes from both area and yield growth. Production reaches 17.3 mmt in 2018/19. Aided by the production growth and a modest consumption increase, Argentine net exports reach 11.3 mmt in 2018/19.

Canadian wheat production reaches only 25.2 mmt in 2018/19 because of a decline in wheat area despite yield growth. Consumption reaches 9.6 mmt in 2018/19, driven by growth in feed use and demand by the ethanol sector. Net exports reach 15.5 mmt by 2018/19.

Increases in area and yields push Australian production up to 22.6 mmt in 2009/10 and to 25.5 mmt in 2018/19. Production grows more than consumption, and net exports reach 17.7 mmt in 2018/19.

Wheat net imports in Asia increase by 5 mmt over the next 10 years. China remains a small net exporter of wheat, with net exports of 0.9 mmt in 2018/19. Japan's net imports reach 5.3 mmt in 2018/19, while Pakistan's reach 1.3 mmt. India becomes a small net exporter of wheat in 2008/09 and is projected to remain a net exporter over the decade.

Wheat production in Brazil increased in 2008/09 to 5.8 mmt because of an increase in yields and area. Production is projected to decrease to 5.3 mmt in 2009/10 and to stay relatively stable. Consumption grows 1.1% annually on average, reaching 12 mmt in 2018/19. Brazil's wheat net imports reach 6.7 mmt in 2018/19. Mexican wheat net imports increase in 2009/10 with the decline in production and increase in consumption. Net imports reach 3.9 mmt in 2018/19. Rising per capita consumption, combined with population growth, is the main source of the demand increase.

Population growth drives the increase in consumption and net imports in African and Middle Eastern countries, as their per capita consumption is projected to decline over the next 10 years. Their wheat net imports reach 59 mmt in 2018/19. Egypt's net imports reach 10.3 mmt in 2018/19, driven by an increase in food use. Algerian net imports reach 6.8 mmt in 2018/19.

Wheat Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Argentina	4,295	8,770	9,571	9,878	10,001	10,155	10,333	10,550	10,819	11,064	11,303
Australia	12,925	15,615	16,043	16,186	16,386	16,572	16,755	16,982	17,231	17,484	17,746
Canada	18,700	16,793	16,267	16,062	15,989	15,962	15,886	15,800	15,697	15,595	15,510
European Union	13,000	9,841	9,935	10,612	11,238	11,834	12,533	13,181	13,795	14,424	15,025
Other CIS †	330	1,026	1,519	1,882	2,161	2,444	2,707	2,977	3,235	3,495	3,744
Russia	14,600	13,201	14,343	15,336	16,211	16,773	17,248	17,720	18,031	18,286	18,525
Ukraine	8,900	7,215	7,880	7,920	8,157	8,196	8,216	8,294	8,405	8,553	8,723
United States	24,222	24,627	25,647	26,138	26,176	26,209	26,240	26,276	26,365	26,510	26,591
Total Net Exports *	98,992	99,443	103,150	105,389	107,519	109,238	110,838	112,826	114,831	116,740	118,597
Net Importers											
Algeria	5,585	5,966	6,050	6,126	6,217	6,315	6,403	6,500	6,604	6,708	6,811
Brazil	5,800	5,828	6,066	6,042	6,139	6,236	6,310	6,392	6,475	6,563	6,649
China	-1,970	-1,852	-1,697	-1,292	-1,122	-891	-719	-787	-875	-791	-860
Egypt	7,790	8,435	8,661	8,833	9,047	9,263	9,479	9,692	9,908	10,121	10,333
India	-50	-503	-248	-84	-78	-204	-199	-259	-378	-538	-570
Iran	4,450	1,114	1,476	1,878	1,996	1,615	1,500	1,585	1,658	1,707	1,755
Japan	5,075	5,551	5,467	5,447	5,419	5,397	5,366	5,342	5,319	5,296	5,270
Mexico	2,550	2,891	3,102	3,192	3,273	3,350	3,420	3,495	3,609	3,741	3,876
Morocco	3,900	5,125	5,418	5,507	5,570	5,652	5,724	5,808	5,906	6,018	6,127
Other Africa/Middle East	25,225	23,901	25,442	26,525	27,350	28,052	28,719	29,418	30,137	30,875	31,604
Other Asia	19,240	19,340	19,331	19,374	19,715	20,278	20,593	20,989	21,252	21,392	21,510
Other Eastern Europe ‡	775	949	966	961	969	965	966	968	973	974	977
Other Latin America	9,570	10,060	10,194	10,321	10,440	10,589	10,704	10,834	10,962	11,098	11,224
Pakistan	100	271	555	633	736	761	827	896	1,024	1,163	1,319
South Korea	4,020	4,279	4,483	4,547	4,588	4,614	4,623	4,625	4,612	4,586	4,551
Taiwan	1,075	1,203	1,201	1,207	1,230	1,234	1,245	1,258	1,275	1,285	1,296
Tunisia	1,400	1,921	1,990	2,045	2,083	2,116	2,140	2,179	2,231	2,282	2,329
Rest of World	1,510	1,680	1,821	1,825	1,822	1,874	1,893	1,919	1,960	2,002	2,040
Residual	927	927	927	927	927	927	927	927	927	927	927
Total Net Imports	98,992	99,443	103,150	105,389	107,519	109,238	110,838	112,826	114,831	116,740	118,597
Wheat Prices											
(U.S. Dollars per Metric Ton)											
U.S. FOB Gulf	289.20	224.90	224.09	231.09	235.44	241.47	247.18	250.67	251.65	252.55	253.35
Canadian Wheat Board	306.23	240.33	243.79	253.13	257.80	263.01	266.37	267.97	268.59	270.49	271.21
AWB Limited Export Quote	254.68	198.72	196.64	202.57	206.42	211.64	216.62	219.71	220.62	221.41	222.10
European Union Market	285.35	206.59	209.86	211.70	209.25	211.72	211.39	210.86	209.15	206.85	205.32

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Turkmenistan, Uzbekistan.

‡ Countries included: Albania, Bosnia and Herzegovina, Croatia, Macedonia, Serbia, Montenegro.

World Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	224,025	225,240	223,841	223,016	223,024	222,870	222,847	223,009	223,242	223,324	223,308
(Metric Tons per Hectare)											
Yield	3.05	2.98	3.01	3.04	3.06	3.08	3.11	3.13	3.16	3.18	3.20
(Thousand Metric Tons)											
Production	682,865	672,140	673,246	676,890	682,455	687,242	692,525	698,422	704,612	710,272	715,546
Beginning Stocks	119,371	148,241	158,214	162,222	164,047	165,324	165,807	166,240	166,918	168,062	169,338
Domestic Supply	802,236	820,381	831,459	839,112	846,502	852,566	858,331	864,662	871,530	878,333	884,884
Feed Use	123,027	119,944	119,408	119,572	119,852	120,139	120,456	120,859	121,325	121,794	122,304
Food and Other	530,969	542,223	549,829	555,493	561,325	566,621	571,635	576,885	582,144	587,202	592,128
Ending Stocks	148,241	158,214	162,222	164,047	165,324	165,807	166,240	166,918	168,062	169,338	170,452
Domestic Use	802,236	820,381	831,459	839,112	846,502	852,566	858,331	864,662	871,530	878,333	884,884
Trade *	98,992	99,443	103,150	105,389	107,519	109,238	110,838	112,826	114,831	116,740	118,597
Stocks-to-Use Ratio	22.67	23.89	24.24	24.30	24.27	24.14	24.02	23.92	23.89	23.88	23.86

* Excludes intraregional trade.

U.S. Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	22,535	20,647	20,769	20,575	20,477	20,368	20,263	20,196	20,137	20,079	20,013
(Metric Tons per Hectare)											
Yield	3.02	2.89	2.94	2.97	2.99	3.01	3.04	3.06	3.09	3.12	3.15
(Thousand Metric Tons)											
Production	68,026	59,694	61,102	61,108	61,241	61,405	61,554	61,897	62,294	62,690	62,983
Beginning Stocks	8,323	17,714	17,805	18,105	17,900	17,729	17,544	17,371	17,298	17,325	17,376
Domestic Supply	76,349	77,407	78,907	79,213	79,142	79,134	79,098	79,268	79,591	80,015	80,359
Feed Use	6,207	6,301	6,193	5,968	5,782	5,695	5,560	5,505	5,426	5,365	5,293
Food and Other	28,207	28,675	28,962	29,207	29,455	29,686	29,927	30,190	30,476	30,764	31,052
Ending Stocks	17,714	17,805	18,105	17,900	17,729	17,544	17,371	17,298	17,325	17,376	17,423
Domestic Use	52,127	52,780	53,260	53,075	52,965	52,925	52,858	52,992	53,227	53,505	53,768
Net Trade	24,222	24,627	25,647	26,138	26,176	26,209	26,240	26,276	26,365	26,510	26,591

Algerian Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	1,700	1,669	1,596	1,586	1,592	1,595	1,599	1,602	1,602	1,599	1,596
(Metric Tons per Hectare)											
Yield	1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.60	1.61	1.62	1.63
(Thousand Metric Tons)											
Production	2,600	2,571	2,475	2,476	2,502	2,523	2,547	2,568	2,585	2,596	2,608
Beginning Stocks	4,101	4,136	4,300	4,329	4,316	4,309	4,303	4,300	4,304	4,318	4,331
Domestic Supply	6,701	6,707	6,775	6,805	6,818	6,832	6,849	6,867	6,890	6,914	6,939
Feed Use	50	50	50	50	50	50	50	50	50	50	50
Food and Other	8,100	8,323	8,446	8,564	8,675	8,794	8,902	9,013	9,125	9,242	9,356
Ending Stocks	4,136	4,300	4,329	4,316	4,309	4,303	4,300	4,304	4,318	4,331	4,343
Domestic Use	12,286	12,672	12,825	12,930	13,034	13,147	13,252	13,367	13,493	13,623	13,750
Net Trade	-5,585	-5,966	-6,050	-6,126	-6,217	-6,315	-6,403	-6,500	-6,604	-6,708	-6,811

Argentine Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	4,200	5,206	5,369	5,415	5,415	5,427	5,437	5,465	5,505	5,529	5,552
(Metric Tons per Hectare)											
Yield	2.26	2.80	2.84	2.88	2.91	2.95	2.98	3.02	3.05	3.09	3.13
(Thousand Metric Tons)											
Production	9,500	14,602	15,250	15,572	15,766	15,993	16,217	16,494	16,812	17,083	17,349
Beginning Stocks	679	404	636	666	673	680	683	686	692	700	706
Domestic Supply	10,179	15,006	15,886	16,238	16,440	16,673	16,900	17,180	17,503	17,783	18,055
Feed Use	80	86	86	87	87	88	89	90	92	93	94
Food and Other	5,400	5,514	5,563	5,600	5,672	5,746	5,792	5,847	5,893	5,920	5,946
Ending Stocks	404	636	666	673	680	683	686	692	700	706	711
Domestic Use	5,884	6,236	6,315	6,360	6,439	6,518	6,567	6,629	6,685	6,719	6,752
Net Trade	4,295	8,770	9,571	9,878	10,001	10,155	10,333	10,550	10,819	11,064	11,303

Australian Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	13,000	13,205	13,189	13,131	13,107	13,111	13,118	13,145	13,188	13,217	13,244
(Metric Tons per Hectare)											
Yield	1.54	1.71	1.73	1.76	1.78	1.80	1.83	1.85	1.88	1.90	1.92
(Thousand Metric Tons)											
Production	20,000	22,588	22,870	23,078	23,346	23,662	23,985	24,343	24,734	25,101	25,463
Beginning Stocks	3,853	4,478	4,873	5,067	5,225	5,306	5,365	5,426	5,484	5,560	5,641
Domestic Supply	23,853	27,066	27,742	28,145	28,570	28,968	29,349	29,769	30,218	30,661	31,104
Feed Use	3,750	3,891	3,931	4,033	4,147	4,261	4,369	4,470	4,569	4,661	4,748
Food and Other	2,700	2,687	2,701	2,702	2,731	2,770	2,799	2,832	2,857	2,875	2,891
Ending Stocks	4,478	4,873	5,067	5,225	5,306	5,365	5,426	5,484	5,560	5,641	5,720
Domestic Use	10,928	11,451	11,699	11,960	12,184	12,396	12,595	12,787	12,987	13,177	13,358
Net Trade	12,925	15,615	16,043	16,186	16,386	16,572	16,755	16,982	17,231	17,484	17,746

Brazilian Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	2,400	2,345	2,260	2,245	2,242	2,237	2,229	2,229	2,232	2,231	2,229
(Metric Tons per Hectare)											
Yield	2.42	2.27	2.29	2.30	2.32	2.33	2.34	2.36	2.37	2.38	2.40
(Thousand Metric Tons)											
Production	5,800	5,332	5,169	5,168	5,191	5,210	5,223	5,253	5,288	5,317	5,341
Beginning Stocks	287	1,137	1,302	1,321	1,276	1,256	1,235	1,216	1,202	1,196	1,191
Domestic Supply	6,087	6,469	6,470	6,488	6,467	6,466	6,458	6,468	6,490	6,513	6,532
Feed Use	400	429	440	451	462	473	482	492	502	513	523
Food and Other	10,350	10,566	10,776	10,803	10,889	10,994	11,071	11,167	11,267	11,373	11,472
Ending Stocks	1,137	1,302	1,321	1,276	1,256	1,235	1,216	1,202	1,196	1,191	1,186
Domestic Use	11,887	12,297	12,537	12,530	12,607	12,702	12,769	12,860	12,965	13,076	13,181
Net Trade	-5,800	-5,828	-6,066	-6,042	-6,139	-6,236	-6,310	-6,392	-6,475	-6,563	-6,649

Canadian Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	10,030	9,655	9,344	9,206	9,119	9,049	8,952	8,892	8,867	8,842	8,784
(Metric Tons per Hectare)											
Yield	2.85	2.69	2.71	2.73	2.75	2.77	2.79	2.81	2.83	2.85	2.87
(Thousand Metric Tons)											
Production	28,610	26,000	25,351	25,160	25,105	25,095	25,007	25,021	25,127	25,233	25,244
Beginning Stocks	4,817	6,927	7,732	8,219	8,533	8,680	8,714	8,631	8,546	8,572	8,706
Domestic Supply	33,427	32,927	33,083	33,379	33,638	33,775	33,721	33,651	33,673	33,805	33,950
Feed Use	3,200	3,456	3,519	3,624	3,743	3,811	3,863	3,905	3,938	3,968	4,031
Food and Other	4,600	4,947	5,077	5,161	5,226	5,288	5,341	5,400	5,466	5,536	5,608
Ending Stocks	6,927	7,732	8,219	8,533	8,680	8,714	8,631	8,546	8,572	8,706	8,801
Domestic Use	14,727	16,135	16,816	17,318	17,649	17,813	17,835	17,851	17,976	18,210	18,440
Net Trade	18,700	16,793	16,267	16,062	15,989	15,962	15,886	15,800	15,697	15,595	15,510

Chinese Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	24,000	23,433	23,221	23,093	23,111	23,033	22,960	22,939	22,927	22,852	22,785
(Metric Tons per Hectare)											
Yield	4.71	4.68	4.70	4.71	4.73	4.74	4.76	4.77	4.79	4.81	4.82
(Thousand Metric Tons)											
Production	113,000	109,666	109,037	108,798	109,244	109,233	109,251	109,507	109,810	109,810	109,843
Beginning Stocks	40,963	44,993	46,580	47,102	47,429	47,858	48,220	48,481	48,733	49,045	49,343
Domestic Supply	153,963	154,659	155,617	155,900	156,673	157,091	157,471	157,988	158,543	158,855	159,186
Feed Use	9,000	8,211	8,432	8,706	8,947	9,139	9,346	9,552	9,748	9,950	10,135
Food and Other	98,000	98,016	98,386	98,473	98,747	98,841	98,924	98,916	98,874	98,771	98,611
Ending Stocks	44,993	46,580	47,102	47,429	47,858	48,220	48,481	48,733	49,045	49,343	49,580
Domestic Use	151,993	152,806	153,920	154,608	155,552	156,200	156,751	157,201	157,668	158,064	158,326
Net Trade	1,970	1,852	1,697	1,292	1,122	891	719	787	875	791	860

Egyptian Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	1,290	1,293	1,290	1,291	1,291	1,292	1,290	1,291	1,291	1,293	1,294
(Metric Tons per Hectare)											
Yield	6.43	6.48	6.52	6.57	6.62	6.66	6.71	6.75	6.80	6.84	6.89
(Thousand Metric Tons)											
Production	8,300	8,378	8,417	8,479	8,538	8,603	8,654	8,716	8,777	8,844	8,909
Beginning Stocks	4,135	4,175	4,407	4,440	4,425	4,416	4,404	4,394	4,389	4,392	4,399
Domestic Supply	12,435	12,553	12,824	12,920	12,963	13,019	13,058	13,110	13,165	13,236	13,308
Feed Use	50	41	44	47	50	53	54	55	56	57	58
Food and Other	16,000	16,540	17,001	17,280	17,545	17,826	18,089	18,358	18,625	18,901	19,174
Ending Stocks	4,175	4,407	4,440	4,425	4,416	4,404	4,394	4,389	4,392	4,399	4,408
Domestic Use	20,225	20,988	21,485	21,752	22,010	22,282	22,536	22,802	23,073	23,357	23,641
Net Trade	-7,790	-8,435	-8,661	-8,833	-9,047	-9,263	-9,479	-9,692	-9,908	-10,121	-10,333

European Union Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	26,772	26,795	26,245	26,325	26,300	26,232	26,239	26,224	26,201	26,171	26,129
(Metric Tons per Hectare)											
Yield	5.62	5.40	5.44	5.48	5.52	5.56	5.60	5.65	5.69	5.73	5.77
(Thousand Metric Tons)											
Production	150,514	144,566	142,689	144,226	145,188	145,912	147,051	148,066	149,033	149,958	150,811
Beginning Stocks	10,435	16,449	18,794	19,250	19,609	19,825	19,949	20,146	20,366	20,608	20,854
Domestic Supply	160,949	161,015	161,483	163,476	164,797	165,737	167,000	168,212	169,399	170,566	171,665
Feed Use	64,000	61,650	61,041	61,115	61,147	61,030	60,939	60,812	60,666	60,484	60,337
Food and Other	67,500	70,730	71,258	72,140	72,588	72,923	73,382	73,853	74,331	74,803	75,229
Ending Stocks	16,449	18,794	19,250	19,609	19,825	19,949	20,146	20,366	20,608	20,854	21,074
Domestic Use	147,949	151,174	151,548	152,863	153,559	153,903	154,467	155,031	155,605	156,142	156,640
Net Trade	13,000	9,841	9,935	10,612	11,238	11,834	12,533	13,181	13,795	14,424	15,025

Indian Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	28,000	28,278	28,424	28,421	28,655	28,790	28,898	28,992	29,150	29,292	29,394
(Metric Tons per Hectare)											
Yield	2.80	2.83	2.86	2.89	2.92	2.95	2.99	3.02	3.05	3.08	3.11
(Thousand Metric Tons)											
Production	78,400	80,043	81,335	82,208	83,772	85,059	86,273	87,453	88,832	90,173	91,399
Beginning Stocks	6,410	7,160	7,295	7,342	7,316	7,400	7,472	7,559	7,652	7,765	7,875
Domestic Supply	84,810	87,203	88,631	89,550	91,088	92,459	93,745	95,012	96,484	97,938	99,275
Feed Use	100	148	163	172	178	185	191	197	204	212	220
Food and Other	77,500	79,256	80,877	81,979	83,432	84,598	85,797	86,904	88,137	89,312	90,512
Ending Stocks	7,160	7,295	7,342	7,316	7,400	7,472	7,559	7,652	7,765	7,875	7,973
Domestic Use	84,760	86,699	88,383	89,467	91,010	92,255	93,546	94,753	96,106	97,400	98,705
Net Trade	50	503	248	84	78	204	199	259	378	538	570

Iranian Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	5,850	6,830	6,976	6,853	6,785	6,774	6,880	6,921	6,945	6,964	6,981
(Metric Tons per Hectare)											
Yield	1.71	2.13	2.15	2.17	2.18	2.20	2.21	2.23	2.24	2.26	2.28
(Thousand Metric Tons)											
Production	10,000	14,577	14,999	14,842	14,800	14,884	15,223	15,424	15,587	15,739	15,886
Beginning Stocks	3,157	2,007	1,892	2,264	2,564	2,705	2,525	2,446	2,426	2,431	2,446
Domestic Supply	13,157	16,584	16,891	17,106	17,364	17,589	17,748	17,871	18,014	18,170	18,332
Feed Use	300	315	350	371	379	362	357	357	357	359	360
Food and Other	15,300	15,491	15,754	16,048	16,275	16,317	16,444	16,673	16,884	17,072	17,261
Ending Stocks	2,007	1,892	2,264	2,564	2,705	2,525	2,446	2,426	2,431	2,446	2,466
Domestic Use	17,607	17,698	18,367	18,983	19,359	19,204	19,248	19,456	19,672	19,877	20,088
Net Trade	-4,450	-1,114	-1,476	-1,878	-1,996	-1,615	-1,500	-1,585	-1,658	-1,707	-1,755

Japanese Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	210	205	204	190	187	185	186	186	186	187	187
(Metric Tons per Hectare)											
Yield	4.07	4.07	4.07	4.07	4.07	4.07	4.08	4.08	4.08	4.08	4.08
(Thousand Metric Tons)											
Production	834	832	772	761	756	755	757	759	760	761	761
Beginning Stocks	1,515	1,574	1,805	1,868	1,891	1,898	1,895	1,891	1,890	1,895	1,903
Domestic Supply	2,349	2,406	2,577	2,629	2,648	2,653	2,652	2,650	2,650	2,657	2,664
Feed Use	150	189	205	212	218	220	220	219	218	218	218
Food and Other	5,700	5,963	5,971	5,972	5,951	5,935	5,907	5,883	5,856	5,832	5,805
Ending Stocks	1,574	1,805	1,868	1,891	1,898	1,895	1,891	1,890	1,895	1,903	1,911
Domestic Use	7,424	7,957	8,045	8,076	8,066	8,051	8,018	7,992	7,969	7,953	7,934
Net Trade	-5,075	-5,551	-5,467	-5,447	-5,419	-5,397	-5,366	-5,342	-5,319	-5,296	-5,270

Mexican Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	770	720	694	687	687	687	687	689	691	688	685
(Metric Tons per Hectare)											
Yield	5.06	5.10	5.14	5.18	5.22	5.25	5.29	5.33	5.37	5.40	5.44
(Thousand Metric Tons)											
Production	3,900	3,675	3,565	3,558	3,582	3,608	3,637	3,674	3,706	3,719	3,730
Beginning Stocks	214	414	493	526	532	532	529	524	522	531	542
Domestic Supply	4,114	4,089	4,058	4,085	4,114	4,140	4,166	4,198	4,228	4,250	4,272
Feed Use	100	109	114	117	119	122	123	125	129	132	136
Food and Other	6,150	6,377	6,519	6,627	6,736	6,839	6,939	7,046	7,178	7,317	7,458
Ending Stocks	414	493	526	532	532	529	524	522	531	542	554
Domestic Use	6,664	6,980	7,160	7,277	7,387	7,490	7,586	7,693	7,837	7,991	8,148
Net Trade	-2,550	-2,891	-3,102	-3,192	-3,273	-3,350	-3,420	-3,495	-3,609	-3,741	-3,876

Moroccan Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	2,800	2,808	2,561	2,478	2,471	2,466	2,467	2,467	2,462	2,448	2,431
(Metric Tons per Hectare)											
Yield	1.25	0.96	0.98	0.99	1.01	1.03	1.04	1.06	1.08	1.09	1.11
(Thousand Metric Tons)											
Production	3,500	2,690	2,498	2,459	2,494	2,531	2,573	2,615	2,653	2,679	2,701
Beginning Stocks	1,261	1,261	1,482	1,588	1,610	1,613	1,613	1,614	1,620	1,638	1,662
Domestic Supply	4,761	3,951	3,980	4,048	4,104	4,144	4,187	4,229	4,273	4,317	4,363
Feed Use	100	119	130	134	135	136	136	136	138	140	142
Food and Other	7,300	7,476	7,679	7,810	7,925	8,047	8,162	8,280	8,403	8,533	8,662
Ending Stocks	1,261	1,482	1,588	1,610	1,613	1,613	1,614	1,620	1,638	1,662	1,685
Domestic Use	8,661	9,077	9,398	9,554	9,673	9,796	9,911	10,037	10,179	10,335	10,489
Net Trade	-3,900	-5,125	-5,418	-5,507	-5,570	-5,652	-5,724	-5,808	-5,906	-6,018	-6,127

Other African/Middle Eastern Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	14,578	16,207	16,035	15,874	15,786	15,791	15,805	15,828	15,847	15,863	15,878
(Metric Tons per Hectare)											
Yield	2.06	2.09	2.13	2.16	2.20	2.23	2.26	2.30	2.33	2.36	2.40
(Thousand Metric Tons)											
Production	30,035	33,938	34,119	34,313	34,655	35,200	35,765	36,351	36,929	37,502	38,075
Beginning Stocks	8,858	8,128	8,429	8,734	8,922	9,023	9,093	9,155	9,221	9,294	9,365
Domestic Supply	38,893	42,066	42,549	43,047	43,577	44,224	44,857	45,506	46,150	46,796	47,440
Feed Use	2,010	2,108	2,127	2,140	2,144	2,150	2,153	2,156	2,159	2,164	2,167
Food and Other	53,980	55,430	57,129	58,510	59,759	61,033	62,268	63,547	64,834	66,142	67,445
Ending Stocks	8,128	8,429	8,734	8,922	9,023	9,093	9,155	9,221	9,294	9,365	9,432
Domestic Use	64,118	65,967	67,991	69,572	70,927	72,275	73,576	74,924	76,287	77,671	79,044
Net Trade	-25,225	-23,901	-25,442	-26,525	-27,350	-28,052	-28,719	-29,418	-30,137	-30,875	-31,604

Other Asian Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	3,114	3,423	3,386	3,391	3,400	3,397	3,370	3,376	3,370	3,381	3,398
(Metric Tons per Hectare)											
Yield	1.36	1.56	1.57	1.58	1.59	1.60	1.61	1.61	1.62	1.63	1.64
(Thousand Metric Tons)											
Production	4,250	5,344	5,316	5,354	5,399	5,424	5,411	5,451	5,471	5,519	5,577
Beginning Stocks	2,192	2,317	2,641	2,707	2,715	2,724	2,730	2,738	2,753	2,778	2,803
Domestic Supply	6,442	7,661	7,957	8,061	8,114	8,148	8,141	8,189	8,224	8,297	8,381
Feed Use	950	1,091	1,097	1,100	1,101	1,103	1,102	1,102	1,104	1,106	1,108
Food and Other	22,415	23,269	23,484	23,620	24,004	24,593	24,894	25,322	25,594	25,779	25,954
Ending Stocks	2,317	2,641	2,707	2,715	2,724	2,730	2,738	2,753	2,778	2,803	2,828
Domestic Use	25,682	27,001	27,288	27,435	27,829	28,426	28,734	29,177	29,476	29,689	29,890
Net Trade	-19,240	-19,340	-19,331	-19,374	-19,715	-20,278	-20,593	-20,989	-21,252	-21,392	-21,510

Other CIS Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	17,725	16,965	17,118	17,219	17,277	17,353	17,422	17,500	17,574	17,645	17,714
(Metric Tons per Hectare)											
Yield	1.48	1.63	1.65	1.67	1.68	1.70	1.72	1.74	1.75	1.77	1.79
(Thousand Metric Tons)											
Production	26,235	27,662	28,216	28,688	29,092	29,528	29,955	30,400	30,841	31,280	31,717
Beginning Stocks	6,274	6,354	6,667	6,805	6,882	6,917	6,939	6,956	6,974	6,994	7,012
Domestic Supply	32,509	34,016	34,883	35,494	35,974	36,445	36,894	37,356	37,815	38,274	38,730
Feed Use	5,825	5,804	5,858	5,910	5,985	6,057	6,134	6,214	6,303	6,396	6,493
Food and Other	20,000	20,520	20,701	20,821	20,911	21,005	21,097	21,191	21,283	21,371	21,463
Ending Stocks	6,354	6,667	6,805	6,882	6,917	6,939	6,956	6,974	6,994	7,012	7,029
Domestic Use	32,179	32,991	33,364	33,612	33,813	34,001	34,187	34,379	34,580	34,780	34,986
Net Trade	330	1,026	1,519	1,882	2,161	2,444	2,707	2,977	3,235	3,495	3,744

Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Turkmenistan, Uzbekistan.

Other Eastern European Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	455	449	429	426	425	425	425	425	426	426	426
(Metric Tons per Hectare)											
Yield	3.49	3.36	3.38	3.40	3.42	3.44	3.46	3.48	3.50	3.52	3.54
(Thousand Metric Tons)											
Production	1,590	1,510	1,452	1,448	1,453	1,463	1,469	1,480	1,490	1,500	1,508
Beginning Stocks	212	292	383	404	406	407	407	406	408	413	418
Domestic Supply	1,802	1,802	1,835	1,852	1,859	1,870	1,876	1,886	1,898	1,912	1,925
Feed Use	205	221	233	239	244	248	251	254	255	255	255
Food and Other	2,080	2,146	2,165	2,169	2,177	2,179	2,185	2,192	2,203	2,213	2,224
Ending Stocks	292	383	404	406	407	407	406	408	413	418	422
Domestic Use	2,577	2,751	2,801	2,814	2,828	2,835	2,842	2,854	2,871	2,886	2,902
Net Trade	-775	-949	-966	-961	-969	-965	-966	-968	-973	-974	-977

Countries included: Albania, Bosnia and Herzegovina, Croatia, Macedonia, Serbia, Montenegro.

Other Latin American Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	1,174	1,151	1,105	1,090	1,087	1,082	1,082	1,080	1,078	1,074	1,070
(Metric Tons per Hectare)											
Yield	2.72	2.74	2.76	2.78	2.81	2.83	2.85	2.88	2.90	2.92	2.94
(Thousand Metric Tons)											
Production	3,188	3,153	3,051	3,034	3,050	3,062	3,085	3,106	3,125	3,137	3,149
Beginning Stocks	1,943	2,161	2,460	2,562	2,596	2,621	2,640	2,656	2,678	2,704	2,730
Domestic Supply	5,131	5,314	5,511	5,596	5,647	5,684	5,725	5,763	5,803	5,841	5,879
Feed Use	475	522	535	539	542	544	546	548	551	554	557
Food and Other	12,065	12,392	12,607	12,782	12,923	13,090	13,226	13,370	13,510	13,655	13,792
Ending Stocks	2,161	2,460	2,562	2,596	2,621	2,640	2,656	2,678	2,704	2,730	2,755
Domestic Use	14,701	15,374	15,705	15,917	16,086	16,273	16,429	16,596	16,765	16,939	17,104
Net Trade	-9,570	-10,060	-10,194	-10,321	-10,440	-10,589	-10,704	-10,834	-10,962	-11,098	-11,224

Pakistani Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	8,200	8,466	8,408	8,391	8,398	8,414	8,424	8,447	8,463	8,473	8,477
(Metric Tons per Hectare)											
Yield	2.62	2.75	2.79	2.83	2.86	2.90	2.94	2.98	3.01	3.05	3.09
(Thousand Metric Tons)											
Production	21,500	23,309	23,462	23,724	24,056	24,413	24,754	25,133	25,493	25,837	26,163
Beginning Stocks	2,183	1,183	1,474	1,566	1,582	1,598	1,602	1,607	1,622	1,650	1,680
Domestic Supply	23,683	24,492	24,936	25,290	25,637	26,011	26,356	26,740	27,115	27,488	27,843
Feed Use	400	430	434	435	436	436	436	436	437	438	439
Food and Other	22,200	22,859	23,490	23,907	24,340	24,734	25,140	25,577	26,052	26,533	27,015
Ending Stocks	1,183	1,474	1,566	1,582	1,598	1,602	1,607	1,622	1,650	1,680	1,708
Domestic Use	23,783	24,764	25,491	25,924	26,374	26,772	27,183	27,636	28,139	28,651	29,162
Net Trade	-100	-271	-555	-633	-736	-761	-827	-896	-1,024	-1,163	-1,319

Russian Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	26,700	26,645	26,435	26,431	26,520	26,520	26,526	26,558	26,570	26,560	26,547
(Metric Tons per Hectare)											
Yield	2.36	2.12	2.14	2.15	2.17	2.18	2.20	2.21	2.23	2.24	2.26
(Thousand Metric Tons)											
Production	63,000	56,504	56,463	56,858	57,454	57,862	58,281	58,758	59,190	59,576	59,954
Beginning Stocks	2,204	7,104	8,355	8,679	8,820	8,868	8,882	8,887	8,895	8,912	8,930
Domestic Supply	65,204	63,608	64,818	65,537	66,274	66,730	67,163	67,645	68,085	68,488	68,883
Feed Use	19,500	18,529	18,348	18,090	17,992	17,980	18,046	18,154	18,361	18,592	18,833
Food and Other	24,000	23,523	23,448	23,291	23,204	23,094	22,982	22,876	22,781	22,681	22,579
Ending Stocks	7,104	8,355	8,679	8,820	8,868	8,882	8,887	8,895	8,912	8,930	8,947
Domestic Use	50,604	50,407	50,475	50,201	50,063	49,957	49,915	49,925	50,054	50,202	50,358
Net Trade	14,600	13,201	14,343	15,336	16,211	16,773	17,248	17,720	18,031	18,286	18,525

South Korean Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	3	3	3	3	3	3	3	3	3	3	3
(Metric Tons per Hectare)											
Yield	3.00	3.00	3.01	3.01	3.01	3.01	3.02	3.02	3.02	3.02	3.03
(Thousand Metric Tons)											
Production	9	9	9	9	9	9	9	9	9	9	9
Beginning Stocks	839	968	1,057	1,127	1,150	1,155	1,156	1,156	1,157	1,161	1,165
Domestic Supply	848	977	1,066	1,136	1,159	1,164	1,165	1,165	1,166	1,170	1,174
Feed Use	1,500	1,753	1,883	1,977	2,030	2,059	2,068	2,062	2,043	2,012	1,970
Food and Other	2,400	2,447	2,539	2,557	2,561	2,563	2,565	2,570	2,574	2,580	2,586
Ending Stocks	968	1,057	1,127	1,150	1,155	1,156	1,156	1,157	1,161	1,165	1,169
Domestic Use	4,868	5,256	5,549	5,683	5,746	5,779	5,788	5,790	5,778	5,756	5,725
Net Trade	-4,020	-4,279	-4,483	-4,547	-4,588	-4,614	-4,623	-4,625	-4,612	-4,586	-4,551

Taiwanese Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	0	0	0	0	0	0	0	0	0	0	0
(Metric Tons per Hectare)											
Yield	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(Thousand Metric Tons)											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	408	373	418	437	447	461	467	473	481	491	499
Domestic Supply	408	373	418	437	447	461	467	473	481	491	499
Feed Use	10	20	23	25	28	29	31	33	35	37	39
Food and Other	1,100	1,138	1,159	1,172	1,188	1,198	1,208	1,218	1,230	1,240	1,250
Ending Stocks	373	418	437	447	461	467	473	481	491	499	507
Domestic Use	1,483	1,576	1,619	1,644	1,676	1,695	1,712	1,731	1,756	1,776	1,795
Net Trade	-1,075	-1,203	-1,201	-1,207	-1,230	-1,234	-1,245	-1,258	-1,275	-1,285	-1,296

Tunisian Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	780	859	763	745	737	733	732	732	729	721	714
(Metric Tons per Hectare)											
Yield	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.67	1.68	1.69
(Thousand Metric Tons)											
Production	1,250	1,385	1,236	1,214	1,208	1,207	1,213	1,220	1,221	1,214	1,208
Beginning Stocks	1,474	1,224	1,410	1,448	1,466	1,477	1,482	1,485	1,495	1,513	1,529
Domestic Supply	2,724	2,609	2,647	2,662	2,674	2,685	2,695	2,705	2,715	2,726	2,737
Feed Use	0	0	0	0	0	0	0	0	0	0	0
Food and Other	2,900	3,119	3,188	3,241	3,280	3,319	3,350	3,389	3,434	3,479	3,522
Ending Stocks	1,224	1,410	1,448	1,466	1,477	1,482	1,485	1,495	1,513	1,529	1,544
Domestic Use	4,124	4,529	4,636	4,707	4,757	4,801	4,835	4,884	4,947	5,008	5,066
Net Trade	-1,400	-1,921	-1,990	-2,045	-2,083	-2,116	-2,140	-2,179	-2,231	-2,282	-2,329

Ukrainian Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	7,000	7,163	7,259	7,187	7,190	7,143	7,091	7,059	7,037	7,027	7,021
(Metric Tons per Hectare)											
Yield	3.64	2.89	2.92	2.94	2.97	2.99	3.02	3.04	3.07	3.09	3.12
(Thousand Metric Tons)											
Production	25,500	20,716	21,174	21,142	21,331	21,369	21,387	21,469	21,576	21,721	21,879
Beginning Stocks	1,526	4,126	4,231	4,358	4,455	4,556	4,646	4,724	4,793	4,850	4,899
Domestic Supply	27,026	24,842	25,405	25,500	25,786	25,925	26,033	26,193	26,369	26,571	26,777
Feed Use	4,000	3,756	3,446	3,341	3,255	3,232	3,242	3,265	3,303	3,350	3,406
Food and Other	10,000	9,640	9,722	9,783	9,818	9,851	9,851	9,842	9,810	9,770	9,713
Ending Stocks	4,126	4,231	4,358	4,455	4,556	4,646	4,724	4,793	4,850	4,899	4,935
Domestic Use	18,126	17,627	17,525	17,580	17,630	17,729	17,817	17,899	17,964	18,018	18,054
Net Trade	8,900	7,215	7,880	7,920	8,157	8,196	8,216	8,294	8,405	8,553	8,723

Rest-of-World Wheat Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	744	818	771	766	765	764	763	763	762	759	757
(Metric Tons per Hectare)											
Yield	4.47	4.15	4.17	4.19	4.21	4.23	4.25	4.27	4.29	4.31	4.33
(Thousand Metric Tons)											
Production	3,324	3,398	3,216	3,212	3,221	3,232	3,243	3,257	3,268	3,274	3,279
Beginning Stocks	1,108	1,182	1,294	1,306	1,307	1,310	1,311	1,313	1,318	1,326	1,334
Domestic Supply	4,432	4,580	4,510	4,518	4,528	4,542	4,554	4,570	4,586	4,600	4,612
Feed Use	665	715	725	690	654	675	667	668	680	688	691
Food and Other	4,095	4,251	4,300	4,347	4,386	4,430	4,466	4,503	4,540	4,581	4,620
Ending Stocks	1,182	1,294	1,306	1,307	1,310	1,311	1,313	1,318	1,326	1,334	1,341
Domestic Use	5,942	6,260	6,331	6,343	6,350	6,416	6,446	6,489	6,546	6,602	6,652
Net Trade	-1,510	-1,680	-1,821	-1,825	-1,822	-1,874	-1,893	-1,919	-1,960	-2,002	-2,040

Per Capita Wheat Consumption of Selected Countries

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Kilograms)											
Algeria	240	244	244	245	245	246	246	246	246	247	247
Argentina	133	135	135	134	134	135	135	135	134	134	133
Australia	129	126	126	124	124	124	124	124	124	124	123
Brazil	53	53	54	53	53	53	53	53	53	53	52
Canada	139	148	150	152	152	153	153	154	155	155	156
China	74	73	73	73	72	72	71	71	71	70	70
Egypt	196	199	201	201	202	202	201	202	202	202	202
European Union	138	144	145	147	147	148	149	150	151	152	153
India	68	68	68	68	68	68	68	68	68	68	68
Iran	232	233	235	237	238	236	236	236	237	237	237
Japan	45	47	47	47	47	47	47	47	47	47	47
Mexico	56	57	58	58	59	59	59	59	60	60	61
Morocco	213	214	217	218	218	218	218	218	219	219	220
Other Africa/Middle East	53	53	54	54	54	54	54	54	53	53	53
Other Asia	26	27	27	26	26	27	27	27	27	27	27
Other CIS †	222	226	226	226	225	225	224	224	223	222	222
Other Eastern Europe ‡	81	84	84	84	85	85	85	85	85	86	86
Other Latin America	52	53	53	53	53	53	52	52	52	52	52
Pakistan	128	130	131	131	131	130	130	130	130	131	131
Russia	171	168	168	168	168	168	168	168	168	169	169
South Korea	50	50	52	52	52	52	52	52	52	52	52
Taiwan	48	50	50	51	51	52	52	52	53	53	54
Tunisia	279	297	301	303	304	305	305	305	307	308	309
Ukraine	217	211	214	217	219	221	222	224	224	225	225
United States	93	94	94	94	94	94	94	94	94	94	94

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Turkmenistan, Uzbekistan.

‡ Countries included: Albania, Bosnia and Herzegovina, Croatia, Macedonia, Serbia, Montenegro.

WORLD RICE

World Rice

International rice prices remain high in 2008/09 (an average of \$550 per mt), as several countries (India, Egypt, Pakistan, China, and Thailand) implement controls on stocks and impose export restrictions. Supplies remain relatively tight, with the global rice stocks-to-use ratio at 19.7%. The export price premium of U.S. long-grain rice over the Thai price remains high at \$116. Vietnam, however, sells its rice at a discount of as much as \$150 below the Thai price, making it very competitive in the global market.

World rice area in 2008/09 increases nearly 1.0%, to 155.8 mha, as area gains in China, India, Bangladesh, Nigeria, Pakistan, and Thailand more than offset declines in Myanmar, Vietnam, and the Middle East. World rice production increases by 1.8%, to 439.1 mmt, as the world average yield improves by 0.8%. While yield gains occur in Argentina, China, Indonesia, the Ivory Coast, Japan, South Korea, Nigeria, Taiwan, Turkey, and Uruguay during the same period, a number of countries experience declines, including the EU, Myanmar, Pakistan, Vietnam, the U.S., and the Middle East.

Total world rice consumption in 2008/09 increases by 1.7%, to 432.4 mmt, spurred by world population growth of 1.2% and an average per capita use increase of 0.5%. China and India account for 77.4% of the net gain in global rice consumption in 2008/09.

Total world rice trade in 2008/09 is 29.3 mmt, down 3.5% from the previous year, as declines in total export shipments from Thailand, India, Myanmar, and the U.S. offset increases in Vietnam, Pakistan, China, and Egypt. Total world rice trade relative to total global rice consumption remains low compared to other grains, at 6.8%. Net world rice trade in 2008/09 is 26.9 mmt, up 0.6% from the previous year.

Despite a slight decline in area in 2009/10, global rice production is projected to expand by 0.9%, to 443.2 mmt, as a result of a 1.2% yield improvement. With world population growth of 1.2% and an increase of 0.1% in per capita use, total global rice consumption in 2009/10 increases by nearly 1.3%, to 438.1 mmt, as world rice prices decline. Total world rice trade expands to 31.1 mmt during the same period, up 6.1% from the previous year, with more export supplies coming from Thailand and India. With increased available supply relative to demand, international rice prices are expected to weaken in 2009/10.

Over the next decade, while global rice area declines marginally, to 155.0 mha, yields continue to grow at 0.8% annually, causing total production to grow at the same rate. Likewise, total consumption continues to increase steadily, by 1.0% annually, with expansion driven solely by population growth, as average per capita use declines marginally. The decline in per capita use of rice in Asia is a result of the combined effects of the westernization of diets, urbanization, and diet diversification toward more protein-based foods, especially in rice economies with growing incomes, such as China, India, Indonesia, Vietnam, Thailand, Japan, South Korea, and Taiwan.

Area expansions in India, Bangladesh, Indonesia, Myanmar, the Philippines, and Vietnam are not enough to offset the substantial contraction of 2.4 mha in China's rice sector. India accounts for 38% of the net growth in total production, with 45% coming from Vietnam, Thailand, the Philippines, Myanmar, Indonesia, and Bangladesh. India and Bangladesh account for 41% of the net gain in world rice consumption, with Brazil, Indonesia, Myanmar, Nigeria, the Philippines, and Vietnam accounting for 24%. International rice prices are expected to decline in the short run, as the stocks-to-use ratio increases. Prices then reverse direction as the stocks-to-use ratio declines, with the Thai 100% Grade B price reaching \$526 by 2018.

Thailand, India, and Vietnam combined account for 91% of the volume growth in world net rice exports over the next decade. Per capita consumption in these three countries is declining, allowing yield-based growth in production to outpace that of consumption. Over the same period, 64% of the projected net growth in import volume is accounted for by Bangladesh, Indonesia, Brazil, the Ivory Coast, and the Philippines.

Rice Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Argentina	546	586	607	642	655	705	721	740	781	843	865
Australia	-223	-246	-260	-225	-207	-193	-177	-161	-158	-149	-165
China	956	758	673	661	651	664	656	662	641	612	583
Egypt	791	692	770	816	837	899	897	896	901	871	928
India	2,444	4,134	4,716	4,377	4,388	3,859	3,746	3,683	3,837	4,217	4,410
Myanmar (Burma)	213	299	290	292	255	224	178	147	140	149	174
Pakistan	4,155	3,661	3,919	4,100	4,248	4,405	4,392	4,445	4,481	4,484	4,502
Thailand	9,555	10,393	10,394	10,829	10,904	11,089	11,259	11,474	11,601	11,659	11,849
United States	2,658	2,646	2,434	1,943	1,986	2,164	2,302	2,522	2,592	2,512	2,444
Uruguay	850	965	1,018	1,045	1,039	1,055	1,077	1,087	1,125	1,148	1,179
Vietnam	4,936	4,659	5,004	5,479	5,741	6,003	6,257	6,152	6,263	6,298	6,642
Total Net Exports *	26,882	28,547	29,565	29,960	30,496	30,875	31,307	31,646	32,203	32,643	33,411
Net Importers											
Bangladesh	1,306	1,293	1,904	2,411	2,493	2,513	2,659	2,760	2,654	2,482	2,619
Brazil	190	559	665	752	805	863	858	882	930	971	956
Canada	345	362	375	388	404	418	431	445	458	474	488
European Union-27	963	970	980	1,025	1,067	1,046	1,032	1,050	1,095	1,101	1,102
China - Hong Kong	315	321	330	332	332	331	332	333	335	339	342
Indonesia	708	779	1,233	1,125	1,064	1,035	1,178	1,183	1,425	1,611	1,510
Iran	1,567	1,477	1,395	1,427	1,595	1,708	1,743	1,698	1,726	1,854	1,840
Iraq	1,125	1,195	1,229	1,261	1,294	1,325	1,348	1,374	1,402	1,432	1,474
Ivory Coast	762	1,081	1,094	1,135	1,193	1,215	1,239	1,291	1,322	1,365	1,439
Japan	500	482	482	482	482	482	482	482	482	482	482
Malaysia	876	821	784	798	808	796	825	862	881	893	890
Mexico	586	612	625	653	681	706	729	753	780	810	842
Nigeria	1,601	1,454	1,519	1,607	1,728	1,871	1,876	1,974	2,016	2,145	2,191
Philippines	2,416	2,722	2,563	2,571	2,617	2,656	2,763	2,721	2,887	3,021	3,041
Saudi Arabia	995	1,345	1,360	1,391	1,419	1,443	1,471	1,497	1,525	1,555	1,586
South Africa	856	937	948	963	971	977	997	1,015	1,044	1,076	1,122
South Korea	281	307	327	348	368	388	409	409	409	409	409
Taiwan	77	147	147	147	147	147	147	147	147	147	147
Turkey	195	208	202	208	219	237	260	267	287	304	321
Rest of World	11,217	11,474	11,402	10,934	10,810	10,718	10,528	10,504	10,397	10,171	10,609
Total Net Imports	26,882	28,547	29,565	29,960	30,496	30,875	31,307	31,646	32,203	32,643	33,411
Prices											
						(U.S. Dollars per Metric Ton)					
Thai 100% Grade B	550	403	385	390	422	465	485	516	528	527	526
Thai 5% Broken	521	383	366	371	402	448	467	498	509	508	507
U.S. FOB Gulf Ports	638	479	468	495	524	557	568	589	594	595	596

* Total net exports are the sum of all positive net exports and negative net imports.

World Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	155,841	155,427	155,362	155,107	154,641	154,506	154,662	154,851	154,989	154,966	154,952
(Metric Tons per Hectare)											
Yield	2.82	2.85	2.88	2.90	2.91	2.93	2.95	2.97	2.99	3.03	3.06
(Thousand Metric Tons)											
Production	439,081	443,189	447,517	449,269	449,448	452,270	456,647	460,213	463,691	470,002	474,581
Beginning Stocks	78,687	85,353	90,440	94,998	96,672	94,732	90,913	87,728	83,878	79,466	76,549
Domestic Supply	517,768	528,542	537,957	544,267	546,120	547,002	547,560	547,941	547,569	549,468	551,130
Consumption	432,415	438,102	442,959	447,595	451,388	456,089	459,832	464,063	468,103	472,920	477,823
Ending Stocks	85,353	90,439	94,997	96,672	94,732	90,912	87,728	83,878	79,466	76,548	73,306
Domestic Use	517,768	528,541	537,956	544,266	546,120	547,002	547,560	547,941	547,569	549,468	551,129
Trade	29,355	31,158	32,225	32,651	33,208	33,608	34,058	34,416	35,005	35,476	36,304
(Percent)											
Stocks-to-Use Ratio	19.74	20.64	21.45	21.60	20.99	19.93	19.08	18.07	16.98	16.19	15.34

U.S. Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	1,204	1,269	1,209	1,102	1,110	1,143	1,167	1,203	1,215	1,197	1,185
(Metric Tons per Hectares)											
Yield	5.41	5.60	5.65	5.71	5.75	5.80	5.84	5.89	5.93	5.98	6.03
(Thousand Metric Tons)											
Production	6,515	7,101	6,832	6,287	6,386	6,625	6,816	7,081	7,208	7,163	7,146
Beginning Stocks	942	741	939	1,003	972	967	988	1,017	1,052	1,090	1,108
Domestic Supply	7,457	7,842	7,771	7,290	7,359	7,591	7,804	8,098	8,260	8,253	8,254
Consumption	4,058	4,258	4,334	4,374	4,406	4,439	4,485	4,524	4,578	4,634	4,689
Ending Stocks	741	939	1,003	972	967	988	1,017	1,052	1,090	1,108	1,122
Domestic Use	4,799	5,197	5,337	5,347	5,373	5,427	5,502	5,576	5,668	5,741	5,810
Net Trade	2,658	2,646	2,434	1,943	1,986	2,164	2,302	2,522	2,592	2,512	2,444

Argentine Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	200	214	218	220	222	224	227	230	232	234	236
(Metric Tons per Hectares)											
Yield	4.50	4.33	4.39	4.47	4.54	4.62	4.70	4.77	4.84	4.92	5.00
(Thousand Metric Tons)											
Production	900	929	957	984	1,007	1,036	1,067	1,095	1,125	1,152	1,179
Beginning Stocks	70	114	146	182	205	232	235	249	267	270	233
Domestic Supply	970	1,042	1,103	1,166	1,211	1,268	1,303	1,344	1,392	1,422	1,412
Consumption	310	310	315	319	324	328	332	337	341	346	351
Ending Stocks	114	146	182	205	232	235	249	267	270	233	197
Domestic Use	424	456	496	524	556	563	581	604	612	579	548
Net Trade	546	586	607	642	655	705	721	740	781	843	865

Australian Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	7	10	14	19	23	26	29	31	33	34	36
(Metric Tons per Hectares)											
Yield	6.86	7.56	7.60	7.60	7.60	7.60	7.61	7.61	7.62	7.63	7.64
(Thousand Metric Tons)											
Production	48	76	110	141	175	200	218	237	255	262	274
Beginning Stocks	73	44	43	42	36	43	48	47	40	44	40
Domestic Supply	121	120	153	183	211	242	266	284	295	306	314
Consumption	301	323	371	373	375	388	396	405	409	415	420
Ending Stocks	44	43	42	36	43	48	47	40	44	40	59
Domestic Use	344	366	413	409	418	436	443	445	452	455	479
Net Trade	-223	-246	-260	-225	-207	-193	-177	-161	-158	-149	-165

Bangladeshi Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	11,380	11,466	11,434	11,399	11,404	11,448	11,510	11,576	11,695	11,780	11,840
(Metric Tons per Hectares)											
Yield	2.60	2.64	2.65	2.67	2.70	2.73	2.76	2.79	2.81	2.84	2.86
(Thousand Metric Tons)											
Production	29,600	30,326	30,323	30,432	30,790	31,258	31,760	32,256	32,914	33,477	33,903
Beginning Stocks	646	648	662	674	687	695	705	718	730	741	749
Domestic Supply	30,246	30,974	30,985	31,106	31,477	31,953	32,465	32,975	33,644	34,219	34,652
Consumption	30,904	31,606	32,215	32,831	33,274	33,761	34,406	35,005	35,557	35,952	36,510
Ending Stocks	648	662	674	687	695	705	718	730	741	749	760
Domestic Use	31,552	32,268	32,889	33,517	33,969	34,467	35,124	35,735	36,298	36,701	37,270
Net Trade	-1,306	-1,293	-1,904	-2,411	-2,493	-2,513	-2,659	-2,760	-2,654	-2,482	-2,619

Brazilian Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	2,900	3,001	3,000	2,985	2,976	2,981	2,984	2,979	2,975	2,967	2,966
(Metric Tons per Hectares)											
Yield	2.86	2.80	2.84	2.87	2.91	2.94	2.97	3.01	3.04	3.08	3.11
(Thousand Metric Tons)											
Production	8,296	8,415	8,514	8,574	8,648	8,765	8,875	8,962	9,053	9,130	9,227
Beginning Stocks	901	701	653	636	636	642	653	660	668	672	674
Domestic Supply	9,197	9,117	9,167	9,210	9,284	9,407	9,528	9,622	9,721	9,802	9,901
Consumption	8,686	9,022	9,196	9,327	9,447	9,617	9,726	9,836	9,978	10,099	10,182
Ending Stocks	701	653	636	636	642	653	660	668	672	674	675
Domestic Use	9,387	9,676	9,832	9,963	10,088	10,270	10,386	10,504	10,650	10,773	10,857
Net Trade	-190	-559	-665	-752	-805	-863	-858	-882	-930	-971	-956

Canadian Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Metric Tons)											
Production	0	0	0	0	0	0	0	0	0	0	0
(Metric Tons per Hectares)											
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	345	362	375	388	404	418	431	445	458	474	488
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	345	362	375	388	404	418	431	445	458	474	488
Net Trade	-345	-362	-375	-388	-404	-418	-431	-445	-458	-474	-488

Chinese Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	29,200	29,259	28,417	28,317	27,636	27,420	27,431	27,102	26,991	26,942	26,814
(Metric Tons per Hectares)											
Yield	4.63	4.68	4.74	4.75	4.77	4.77	4.78	4.78	4.78	4.78	4.78
(Thousand Metric Tons)											
Production	135,100	136,858	134,784	134,472	131,796	130,749	131,077	129,419	128,924	128,740	128,176
Beginning Stocks	37,939	41,666	46,438	48,835	50,033	47,985	44,694	41,961	38,385	34,444	31,704
Domestic Supply	173,039	178,524	181,222	183,307	181,828	178,734	175,771	171,380	167,309	163,183	159,881
Consumption	130,418	131,327	131,714	132,613	133,193	133,375	133,154	132,333	132,225	130,867	130,479
Ending Stocks	41,666	46,438	48,835	50,033	47,985	44,694	41,961	38,385	34,444	31,704	28,819
Domestic Use	172,083	177,765	180,549	182,646	181,178	178,069	175,115	170,718	166,669	162,572	159,298
Net Trade	956	758	673	661	651	664	656	662	641	612	583

Egyptian Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	672	683	687	689	690	690	692	690	688	686	684
(Metric Tons per Hectares)											
Yield	6.53	6.67	6.74	6.78	6.83	6.87	6.92	6.96	7.01	7.05	7.10
(Thousand Metric Tons)											
Production	4,387	4,556	4,629	4,674	4,710	4,741	4,786	4,807	4,822	4,837	4,854
Beginning Stocks	665	637	863	1,052	1,197	1,293	1,291	1,282	1,236	1,136	1,026
Domestic Supply	5,052	5,193	5,492	5,725	5,907	6,035	6,077	6,089	6,058	5,973	5,880
Consumption	3,624	3,638	3,671	3,712	3,776	3,845	3,899	3,958	4,021	4,077	4,119
Ending Stocks	637	863	1,052	1,197	1,293	1,291	1,282	1,236	1,136	1,026	833
Domestic Use	4,261	4,501	4,722	4,909	5,070	5,136	5,180	5,193	5,158	5,102	4,952
Net Trade	791	692	770	816	837	899	897	896	901	871	928

European Union Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	399	401	401	402	403	402	405	405	407	406	405
(Metric Tons per Hectare)											
Yield	3.98	4.16	4.17	4.19	4.20	4.22	4.23	4.24	4.25	4.26	4.27
(Thousand Metric Tons)											
Production	1,588	1,666	1,676	1,685	1,694	1,696	1,710	1,719	1,732	1,729	1,731
Beginning Stocks	1,120	1,002	876	787	764	780	774	758	760	803	827
Domestic Supply	2,708	2,668	2,552	2,473	2,458	2,476	2,484	2,477	2,493	2,531	2,559
Consumption	2,741	2,762	2,745	2,733	2,745	2,747	2,758	2,767	2,786	2,805	2,829
Ending Stocks	1,002	876	787	764	780	774	758	760	803	827	832
Domestic Use	3,743	3,639	3,532	3,497	3,525	3,521	3,517	3,527	3,588	3,632	3,661
Net Trade	-963	-970	-980	-1,025	-1,067	-1,046	-1,032	-1,050	-1,095	-1,101	-1,102

Chinese - Hong Kong Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Metric Tons)											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks											
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption											
Consumption	315	321	330	332	332	331	332	333	335	339	342
Ending Stocks											
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	315	321	330	332	332	331	332	333	335	339	342
Net Trade											
Net Trade	-315	-321	-330	-332	-332	-331	-332	-333	-335	-339	-342

Indian Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	44,500	44,525	44,680	44,669	44,786	44,967	45,019	45,281	45,492	45,594	45,844
(Metric Tons per Hectare)											
Yield	2.19	2.22	2.24	2.27	2.30	2.32	2.34	2.36	2.38	2.42	2.42
(Thousand Metric Tons)											
Production	97,500	98,661	100,197	101,364	102,824	104,137	105,458	106,977	108,386	110,149	111,058
Beginning Stocks	13,000	14,525	14,379	14,447	14,070	13,936	14,047	14,208	14,435	14,645	14,925
Domestic Supply	110,500	113,186	114,576	115,811	116,894	118,073	119,504	121,185	122,821	124,793	125,983
Consumption	93,530	94,674	95,413	97,364	98,570	100,167	101,550	103,067	104,340	105,651	106,519
Ending Stocks	14,525	14,379	14,447	14,070	13,936	14,047	14,208	14,435	14,645	14,925	15,054
Domestic Use	108,056	109,053	109,860	111,434	112,506	114,214	115,758	117,502	118,984	120,576	121,573
Net Trade	2,444	4,134	4,716	4,377	4,388	3,859	3,746	3,683	3,837	4,217	4,410

Indonesian Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	11,900	12,081	12,034	12,088	12,108	12,125	12,181	12,213	12,226	12,276	12,236
(Metric Tons per Hectare)											
Yield	3.05	3.03	3.03	3.02	3.04	3.04	3.03	3.03	3.02	3.03	3.05
(Thousand Metric Tons)											
Production	36,250	36,576	36,418	36,487	36,766	36,804	36,878	36,958	36,984	37,174	37,275
Beginning Stocks	4,357	4,554	4,761	4,896	4,967	5,002	5,016	5,022	5,024	5,025	5,025
Domestic Supply	40,607	41,129	41,179	41,382	41,734	41,805	41,895	41,980	42,008	42,199	42,300
Consumption	36,761	37,147	37,517	37,540	37,796	37,824	38,051	38,139	38,408	38,785	38,784
Ending Stocks	4,554	4,761	4,896	4,967	5,002	5,016	5,022	5,024	5,025	5,025	5,025
Domestic Use	41,315	41,909	42,412	42,507	42,798	42,840	43,073	43,163	43,433	43,810	43,809
Net Trade	-708	-779	-1,233	-1,125	-1,064	-1,035	-1,178	-1,183	-1,425	-1,611	-1,510

Iranian Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	575	573	567	564	561	559	563	566	570	573	575
(Metric Tons per Hectare)											
Yield	2.61	3.43	3.46	3.48	3.51	3.53	3.56	3.58	3.61	3.63	3.66
(Thousand Metric Tons)											
Production	1,500	1,966	1,959	1,964	1,968	1,975	2,004	2,030	2,058	2,084	2,105
Beginning Stocks	784	756	964	982	910	892	898	909	913	923	948
Domestic Supply	2,284	2,723	2,923	2,946	2,878	2,867	2,902	2,939	2,971	3,006	3,053
Consumption	3,095	3,236	3,336	3,462	3,581	3,677	3,735	3,724	3,774	3,912	3,930
Ending Stocks	756	964	982	910	892	898	909	913	923	948	964
Domestic Use	3,851	4,200	4,318	4,373	4,474	4,575	4,644	4,637	4,697	4,860	4,893
Net Trade	-1,567	-1,477	-1,395	-1,427	-1,595	-1,708	-1,743	-1,698	-1,726	-1,854	-1,840

Iraqi Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	60	74	76	75	74	76	80	84	88	91	92
(Metric Tons per Hectare)											
Yield	1.42	1.47	1.45	1.46	1.48	1.49	1.51	1.53	1.54	1.56	1.56
(Thousand Metric Tons)											
Production	85	109	110	109	109	113	120	128	136	142	144
Beginning Stocks	138	213	256	293	316	334	347	359	369	378	387
Domestic Supply	223	322	366	402	426	447	468	487	505	520	532
Consumption	1,135	1,262	1,302	1,347	1,386	1,424	1,457	1,492	1,528	1,565	1,609
Ending Stocks	213	256	293	316	334	347	359	369	378	387	397
Domestic Use	1,348	1,517	1,595	1,663	1,720	1,772	1,816	1,861	1,907	1,953	2,005
Net Trade	-1,125	-1,195	-1,229	-1,261	-1,294	-1,325	-1,348	-1,374	-1,402	-1,432	-1,474

Ivory Coast Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	640	639	631	612	607	617	641	657	672	673	665
(Metric Tons per Hectare)											
Yield	0.98	1.00	1.01	1.02	1.03	1.04	1.06	1.07	1.08	1.09	1.10
(Thousand Metric Tons)											
Production	625	637	636	625	627	645	677	703	726	736	735
Beginning Stocks	110	66	131	144	151	162	170	181	196	207	218
Domestic Supply	735	703	767	769	778	806	847	884	922	943	953
Consumption	1,431	1,653	1,718	1,753	1,809	1,851	1,905	1,979	2,037	2,090	2,160
Ending Stocks	66	131	144	151	162	170	181	196	207	218	232
Domestic Use	1,497	1,784	1,861	1,904	1,971	2,021	2,086	2,174	2,245	2,308	2,392
Net Trade	-762	-1,081	-1,094	-1,135	-1,193	-1,215	-1,239	-1,291	-1,322	-1,365	-1,439

Japanese Rice Supply and Utilization

Malaysian Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	675	681	683	684	685	687	691	696	701	707	713
(Metric Tons per Hectare)											
Yield	2.25	2.27	2.29	2.31	2.33	2.35	2.38	2.40	2.42	2.44	2.46
(Thousand Metric Tons)											
Production	1,520	1,546	1,567	1,583	1,599	1,617	1,642	1,667	1,693	1,724	1,753
Beginning Stocks	425	421	438	428	431	433	437	438	448	455	463
Domestic Supply	1,945	1,967	2,005	2,011	2,030	2,050	2,080	2,105	2,141	2,179	2,216
Consumption	2,400	2,350	2,362	2,379	2,404	2,408	2,467	2,519	2,567	2,610	2,637
Ending Stocks	421	438	428	431	433	437	438	448	455	463	469
Domestic Use	2,821	2,788	2,789	2,809	2,838	2,846	2,905	2,967	3,022	3,073	3,106
Net Trade	-876	-821	-784	-798	-808	-796	-825	-862	-881	-893	-890

Mexican Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	75	63	62	62	62	61	61	62	62	62	62
(Metric Tons per Hectare)											
Yield	2.79	3.44	3.49	3.53	3.55	3.60	3.66	3.76	3.81	3.84	3.88
(Thousand Metric Tons)											
Production	209	217	216	218	219	221	225	232	236	238	241
Beginning Stocks	170	138	142	139	140	141	142	143	145	147	150
Domestic Supply	379	355	358	357	359	363	367	375	380	386	390
Consumption	826	825	844	870	898	927	953	983	1,013	1,046	1,080
Ending Stocks	138	142	139	140	141	142	143	145	147	150	152
Domestic Use	965	967	983	1,010	1,039	1,069	1,096	1,128	1,160	1,196	1,232
Net Trade	-586	-612	-625	-653	-681	-706	-729	-753	-780	-810	-842

Myanmar Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	6,700	7,093	7,047	7,026	7,024	7,029	7,038	7,045	7,060	7,078	7,099
(Metric Tons per Hectare)											
Yield	1.46	1.56	1.57	1.58	1.59	1.60	1.60	1.62	1.63	1.65	1.66
(Thousand Metric Tons)											
Production	9,800	11,045	11,040	11,113	11,174	11,247	11,286	11,405	11,535	11,672	11,813
Beginning Stocks	631	243	394	443	458	414	373	314	273	267	284
Domestic Supply	10,431	11,288	11,434	11,557	11,632	11,662	11,659	11,719	11,808	11,939	12,097
Consumption	9,975	10,595	10,700	10,807	10,963	11,064	11,167	11,299	11,400	11,506	11,599
Ending Stocks	243	394	443	458	414	373	314	273	267	284	324
Domestic Use	10,218	10,989	11,144	11,265	11,377	11,438	11,481	11,572	11,668	11,790	11,923
Net Trade	213	299	290	292	255	224	178	147	140	149	174

Nigerian Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	2,300	2,321	2,318	2,315	2,315	2,318	2,325	2,327	2,328	2,322	2,313
(Metric Tons per Hectare)											
Yield	1.43	1.42	1.45	1.47	1.49	1.52	1.54	1.57	1.58	1.59	1.60
(Thousand Metric Tons)											
Production	3,300	3,300	3,351	3,402	3,459	3,519	3,586	3,646	3,680	3,681	3,698
Beginning Stocks	497	595	603	602	600	598	597	597	596	596	595
Domestic Supply	3,797	3,895	3,955	4,004	4,059	4,118	4,183	4,242	4,276	4,277	4,294
Consumption	4,803	4,745	4,872	5,011	5,189	5,391	5,462	5,620	5,696	5,826	5,889
Ending Stocks	595	603	602	600	598	597	597	596	596	595	595
Domestic Use	5,398	5,348	5,473	5,611	5,788	5,989	6,059	6,216	6,292	6,422	6,485
Net Trade	-1,601	-1,454	-1,519	-1,607	-1,728	-1,871	-1,876	-1,974	-2,016	-2,145	-2,191

Pakistani Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	2,900	2,905	2,979	2,999	3,014	3,055	3,067	3,059	3,059	3,066	3,076
(Metric Tons per Hectare)											
Yield	2.17	2.18	2.20	2.22	2.24	2.26	2.28	2.30	2.32	2.34	2.35
(Thousand Metric Tons)											
Production	6,300	6,337	6,558	6,650	6,742	6,895	6,983	7,027	7,087	7,164	7,237
Beginning Stocks	950	449	589	676	667	593	499	464	416	399	400
Domestic Supply	7,250	6,786	7,147	7,326	7,410	7,488	7,482	7,491	7,503	7,563	7,636
Consumption	2,646	2,536	2,551	2,559	2,568	2,584	2,626	2,630	2,623	2,680	2,735
Ending Stocks	448	589	676	667	593	499	464	416	399	400	399
Domestic Use	3,095	3,125	3,228	3,226	3,161	3,083	3,090	3,046	3,022	3,079	3,135
Net Trade	4,155	3,661	3,919	4,100	4,248	4,405	4,392	4,445	4,481	4,484	4,502

Philippine Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	4,300	4,381	4,405	4,420	4,432	4,448	4,474	4,502	4,531	4,554	4,566
(Metric Tons per Hectare)											
Yield	2.45	2.44	2.56	2.60	2.64	2.68	2.71	2.74	2.76	2.78	2.83
(Thousand Metric Tons)											
Production	10,200	10,698	11,256	11,512	11,685	11,927	12,126	12,334	12,504	12,679	12,908
Beginning Stocks	4,548	4,047	3,998	3,923	3,851	3,763	3,669	3,628	3,546	3,450	3,366
Domestic Supply	14,748	14,745	15,254	15,436	15,536	15,689	15,794	15,963	16,049	16,129	16,273
Consumption	13,117	13,469	13,893	14,156	14,390	14,677	14,929	15,138	15,486	15,784	16,036
Ending Stocks	4,047	3,998	3,923	3,851	3,763	3,669	3,628	3,546	3,450	3,366	3,278
Domestic Use	17,164	17,467	17,817	18,007	18,153	18,346	18,557	18,683	18,936	19,149	19,314
Net Trade	-2,416	-2,722	-2,563	-2,571	-2,617	-2,656	-2,763	-2,721	-2,887	-3,021	-3,041

Saudi Arabian Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Metric Tons)											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	768	598	622	626	629	632	634	637	639	642	645
Domestic Supply	768	598	622	626	629	632	634	637	639	642	645
Consumption	1,281	1,321	1,356	1,388	1,416	1,440	1,468	1,494	1,522	1,553	1,583
Ending Stocks	598	622	626	629	632	634	637	639	642	645	648
Domestic Use	1,879	1,943	1,981	2,017	2,047	2,074	2,105	2,133	2,164	2,197	2,230
Net Trade	-995	-1,345	-1,360	-1,391	-1,419	-1,443	-1,471	-1,497	-1,525	-1,555	-1,586

South African Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	0	0	0	0	0	0	0	0	0	0	0
(Metric Tons per Hectare)											
Yield	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(Thousand Metric Tons)											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	50	51	81	88	92	94	95	99	102	108	114
Domestic Supply	50	51	81	88	92	94	95	99	102	108	114
Consumption	855	907	941	959	969	976	994	1,012	1,039	1,070	1,114
Ending Stocks	51	81	88	92	94	95	99	102	108	114	123
Domestic Use	906	988	1,029	1,051	1,063	1,071	1,093	1,114	1,146	1,184	1,236
Net Trade	-856	-937	-948	-963	-971	-977	-997	-1,015	-1,044	-1,076	-1,122

South Korean Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	936	930	913	888	874	861	852	841	829	819	810
(Metric Tons per Hectare)											
Yield	5.17	4.85	4.86	4.88	4.90	4.91	4.92	4.94	4.96	4.98	5.01
(Thousand Metric Tons)											
Production	4,843	4,513	4,443	4,337	4,276	4,230	4,194	4,159	4,118	4,081	4,060
Beginning Stocks	683	1,193	1,381	1,513	1,555	1,554	1,523	1,482	1,402	1,271	1,098
Domestic Supply	5,526	5,705	5,824	5,850	5,831	5,784	5,717	5,641	5,520	5,352	5,157
Consumption	4,614	4,631	4,638	4,643	4,645	4,649	4,644	4,647	4,658	4,663	4,658
Ending Stocks	1,193	1,381	1,513	1,555	1,554	1,523	1,482	1,402	1,271	1,098	909
Domestic Use	5,807	6,012	6,151	6,197	6,199	6,172	6,126	6,049	5,929	5,760	5,566
Net Trade	-281	-307	-327	-348	-368	-388	-409	-409	-409	-409	-409

Taiwanese Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	268	266	261	257	253	249	246	244	241	239	237
(Metric Tons per Hectare)											
Yield	4.22	4.13	4.11	4.11	4.11	4.13	4.12	4.11	4.11	4.12	4.11
(Thousand Metric Tons)											
Production	1,130	1,098	1,073	1,057	1,039	1,028	1,015	1,002	992	985	974
Beginning Stocks	272	320	386	425	454	473	487	496	498	493	488
Domestic Supply	1,402	1,418	1,459	1,482	1,493	1,501	1,502	1,498	1,490	1,477	1,462
Consumption	1,160	1,179	1,181	1,175	1,168	1,161	1,154	1,147	1,144	1,136	1,130
Ending Stocks	320	386	425	454	473	487	496	498	493	488	479
Domestic Use	1,479	1,565	1,606	1,629	1,640	1,648	1,650	1,645	1,637	1,625	1,609
Net Trade	-77	-147	-147	-147	-147	-147	-147	-147	-147	-147	-147

Thai Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	10,700	10,811	10,776	10,779	10,778	10,779	10,769	10,769	10,790	10,808	10,823
(Metric Tons per Hectare)											
Yield	1.82	1.86	1.88	1.90	1.91	1.93	1.94	1.95	1.97	1.98	2.00
(Thousand Metric Tons)											
Production	19,500	20,092	20,256	20,460	20,602	20,755	20,900	21,035	21,243	21,407	21,639
Beginning Stocks	2,219	2,676	2,697	2,835	2,741	2,727	2,715	2,683	2,589	2,627	2,767
Domestic Supply	21,719	22,768	22,952	23,295	23,343	23,482	23,615	23,718	23,831	24,034	24,405
Consumption	9,487	9,678	9,723	9,726	9,712	9,678	9,673	9,655	9,604	9,608	9,611
Ending Stocks	2,676	2,697	2,835	2,741	2,727	2,715	2,683	2,589	2,627	2,767	2,945
Domestic Use	12,164	12,375	12,559	12,466	12,440	12,394	12,356	12,244	12,231	12,375	12,556
Net Trade	9,555	10,393	10,394	10,829	10,904	11,089	11,259	11,474	11,601	11,659	11,849

Turkish Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	100	104	106	106	106	106	106	105	105	104	104
(Metric Tons per Hectare)											
Yield	4.20	4.07	4.10	4.13	4.17	4.20	4.23	4.27	4.30	4.33	4.37
(Thousand Metric Tons)											
Production	420	422	433	439	441	445	447	449	452	453	454
Beginning Stocks	173	188	197	197	196	197	201	208	209	212	216
Domestic Supply	593	610	630	636	638	641	648	657	660	665	670
Consumption	600	622	635	647	660	678	700	715	735	754	773
Ending Stocks	188	197	197	196	197	201	208	209	212	216	219
Domestic Use	788	818	832	843	857	879	908	924	947	969	992
Net Trade	-195	-208	-202	-208	-219	-237	-260	-267	-287	-304	-321

Uruguayan Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	180	191	200	205	205	207	210	210	216	218	222
(Metric Tons per Hectare)											
Yield	5.60	5.60	5.60	5.61	5.61	5.65	5.69	5.74	5.78	5.83	5.87
(Thousand Metric Tons)											
Production	1,008	1,068	1,123	1,153	1,149	1,169	1,194	1,207	1,247	1,273	1,307
Beginning Stocks	87	145	148	148	149	149	150	150	150	151	151
Domestic Supply	1,095	1,213	1,270	1,301	1,298	1,318	1,343	1,357	1,398	1,424	1,458
Consumption	100	100	104	107	110	113	117	119	122	125	128
Ending Stocks	145	148	148	149	149	150	150	150	151	151	151
Domestic Use	245	248	252	256	260	263	267	270	273	276	279
Net Trade	850	965	1,018	1,045	1,039	1,055	1,077	1,087	1,125	1,148	1,179

Vietnamese Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	7,290	7,305	7,376	7,449	7,487	7,528	7,564	7,596	7,625	7,653	7,679
(Metric Tons per Hectare)											
Yield	3.22	3.27	3.31	3.34	3.38	3.42	3.47	3.45	3.49	3.51	3.56
(Thousand Metric Tons)											
Production	23,500	23,903	24,413	24,897	25,269	25,753	26,224	26,231	26,633	26,878	27,372
Beginning Stocks	2,011	1,554	1,597	1,703	1,731	1,666	1,603	1,585	1,515	1,547	1,580
Domestic Supply	25,511	25,457	26,010	26,599	27,000	27,419	27,827	27,816	28,148	28,424	28,952
Consumption	19,021	19,200	19,303	19,390	19,593	19,813	19,985	20,149	20,338	20,547	20,697
Ending Stocks	1,554	1,597	1,703	1,731	1,666	1,603	1,585	1,515	1,547	1,580	1,613
Domestic Use	20,575	20,797	21,006	21,121	21,259	21,416	21,570	21,664	21,885	22,127	22,310
Net Trade	4,936	4,659	5,004	5,479	5,741	6,003	6,257	6,152	6,263	6,298	6,642

Rest-of-World Rice Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	14,110	12,570	13,295	13,233	13,284	13,003	12,859	12,926	12,734	12,483	12,294
(Metric Tons per Hectare)											
Yield	1.91	1.84	2.02	2.04	2.01	2.09	2.18	2.33	2.42	2.72	2.96
(Thousand Metric Tons)											
Production	26,957	23,067	26,871	26,979	26,684	27,230	27,981	30,155	30,809	33,970	36,379
Beginning Stocks	1,772	4,006	2,690	3,908	4,726	5,099	4,815	4,501	4,566	4,358	4,394
Domestic Supply	28,729	27,074	29,560	30,887	31,409	32,329	32,796	34,656	35,375	38,328	40,772
Consumption	35,752	35,856	37,055	37,096	37,120	38,231	38,823	40,594	41,414	44,105	46,902
Ending Stocks	4,006	2,689	3,908	4,725	5,098	4,815	4,501	4,565	4,357	4,393	4,479
Domestic Use	39,758	38,545	40,963	41,821	42,219	43,046	43,324	45,159	45,771	48,498	51,381
Net Trade	-11,217	-11,474	-11,402	-10,934	-10,810	-10,718	-10,528	-10,504	-10,397	-10,171	-10,609

Per Capita Rice Consumption of Selected Countries

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Kilograms)											
Argentina	7.7	7.6	7.6	7.6	7.7	7.7	7.7	7.8	7.8	7.8	7.9
Australia	14.3	15.2	17.3	17.1	17.0	17.4	17.6	17.8	17.8	17.9	17.9
Bangladesh	201.3	201.8	201.6	201.6	200.5	199.7	200.0	199.9	199.7	198.6	198.4
Brazil	44.2	45.4	45.7	45.8	45.9	46.2	46.3	46.3	46.5	46.6	46.6
Canada	10.4	10.8	11.1	11.4	11.8	12.1	12.4	12.7	13.0	13.3	13.6
China	89.7	89.7	89.5	89.6	89.5	89.1	88.3	87.2	86.7	85.2	84.5
Egypt	44.3	43.8	43.5	43.3	43.3	43.5	43.4	43.4	43.5	43.5	43.4
European Union-27	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.7	5.7
China - Hong Kong	44.9	45.5	46.5	46.6	46.4	46.0	46.1	46.0	46.2	46.6	46.9
India	81.5	81.2	80.6	81.0	80.8	80.9	80.9	80.9	80.8	80.7	80.3
Indonesia	154.8	154.6	154.4	152.8	152.3	150.8	150.2	149.1	148.8	148.8	147.5
Iran	47.0	48.7	49.8	51.1	52.4	53.2	53.5	52.8	53.0	54.3	54.1
Iraq	40.2	43.6	43.9	44.3	44.5	44.7	44.7	44.8	44.9	45.0	45.3
Ivory Coast	70.9	80.2	81.6	81.5	82.4	82.6	83.4	84.9	85.8	86.4	87.7
Japan	63.8	64.4	65.1	65.0	64.7	64.5	64.3	64.1	64.1	63.9	63.7
Malaysia	95.0	91.4	90.3	89.4	88.9	87.5	88.2	88.6	88.8	88.9	88.4
Mexico	7.5	7.4	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.8
Myanmar (Burma)	208.9	220.1	220.6	221.1	222.6	223.1	223.6	224.7	225.3	226.0	226.5
Nigeria	32.8	31.8	32.0	32.3	32.8	33.4	33.3	33.6	33.5	33.6	33.4
Pakistan	15.3	14.4	14.2	14.0	13.8	13.6	13.6	13.4	13.1	13.2	13.2
Philippines	136.5	137.5	139.1	139.0	138.7	138.8	138.7	138.1	138.8	139.1	138.9
Saudi Arabia	45.5	46.1	46.4	46.7	46.9	47.0	47.2	47.3	47.6	47.9	48.3
South Africa	17.5	18.5	19.2	19.6	19.9	20.1	20.5	21.0	21.5	22.1	23.0
South Korea	95.4	95.5	95.4	95.2	95.1	95.0	94.7	94.6	94.7	94.7	94.5
Taiwan	50.6	51.3	51.3	50.9	50.5	50.1	49.8	49.4	49.3	48.9	48.6
Thailand	144.9	146.9	146.6	145.8	144.8	143.6	142.8	141.9	140.5	139.9	139.4
Turkey	8.3	8.6	8.7	8.7	8.8	9.0	9.2	9.3	9.5	9.7	9.8
United States	13.4	13.9	14.0	14.0	14.0	14.0	14.0	14.0	14.1	14.1	14.2
Uruguay	28.8	28.6	29.5	30.3	31.2	31.9	32.7	33.3	34.0	34.6	35.2
Vietnam	220.9	220.8	219.8	218.7	218.9	219.2	219.0	218.7	218.7	218.9	218.5
Rest of World	44.6	44.3	45.3	45.0	44.6	45.5	45.8	47.5	48.0	50.7	53.4
World	64.5	64.6	64.5	64.4	64.2	64.2	64.0	63.8	63.7	63.7	63.7

WORLD COARSE GRAINS

World Coarse Grains

The world coarse grain area is projected to increase further in 2009/10, by 2.7 mha, for a total of 255.5 mha. The main source of this increase is barley area. Coarse grain area reaches 260.2 mha in 2018/19. Corn area increases the most, especially in the U.S. and in Asian countries, followed by barley area and sorghum area. Barley area increases the most in Middle Eastern countries. World coarse grain production is projected to reach 1.130 billion mt in 2018/19, whereas coarse grain consumption reaches 1.128 billion mt that year.

The corn price decreases to \$193.7 per mt in 2008/09 because of lower import demand in world markets. It is projected to decrease further in 2009/10, to \$184.8 per mt. It reaches \$201.5 per mt in 2018/19. The stocks-to-use ratio increases to 17.3% in 2008/09. It decreases over the decade, dropping to 15.2% in 2018/19, because of consumption growth.

World corn area decreased by 3.3 mha in 2008/09, to 157.4 mha, because of decreases in U.S., Argentine, and Brazilian corn area. It increases to 157.9 mha in 2009/10 and reaches 162.9 mha in 2018/19. Production reaches 908.8 mmt in 2018/19 because of growth in area and yields.

Corn feed use increases by 55.9 mmt over the decade, reaching 542.5 mmt in 2018/19, because of growth in the livestock sector. Food and industrial use reaches 365.3 mmt in 2018/19. Both population growth and the continuing growth of the ethanol industry contribute to the rising demand.

In 2008/09, corn net trade decreases because of high carryover stocks, which increase the supply in many countries, reducing their import demand. In 2009/10, corn net trade increases since consumption increases more than production. Over the next 10 years, corn net trade is projected to increase, reaching 92.6 mmt in 2018/19, because of demand growth in major importing regions.

Over the baseline, Argentina increases its production of corn by 8.8 mmt because of growth in area and yields. Argentina's net exports increase by 6.8 mmt, reaching 15.8 mmt in 2018/19. Brazilian production increases by 10.2 mmt over the projection period. Brazil's net exports reach only 5.9 mmt in 2018/19, as domestic use increases because of growth in the livestock sector.

The largest demand increase for corn comes from Asian countries because of growth in the livestock industry and thus in feed demand. Asian net imports increase by 6.6 mmt over the next 10 years, while African net imports increase by 5.2 mmt. China is projected to become a net importer in 2010/11. Chinese net imports reach 2.3 mmt in 2018/19. Among Latin American countries, Mexico maintains its role as a major importer, with imports reaching 11.7 mmt in 2018/19. Mexico also increases its imports of U.S. corn by-products. Middle Eastern corn net imports reach 10.3 mmt in 2018/19.

The world sorghum price decreases in 2008/09 because of lower consumption, which decreases import demand in world markets. It is projected to drop further in 2009/10, to \$178.9 per mt. World sorghum net trade grows slightly over the projection period, reaching 4.8 mmt by 2018/19, with growth in demand. Mexico's net imports of sorghum reach 2.3 mmt and Japan's net imports reach 1.4 mmt in 2018/19.

The barley price decreases in 2009/10 to \$161.9 per mt because of high carryover stocks, which increase the supply. Net trade reaches 19.9 mmt in 2018/19, fueled by growth in Asian demand. The EU's barley net exports reach 6.1 mmt in 2018/19. Australian net exports increase in 2009/10 and reach 3.9 mmt by 2018/19.

Corn Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Argentina	9,000	12,746	13,805	14,502	14,945	15,029	15,320	15,502	15,680	15,677	15,789
Australia	5	1	3	0	-11	-22	-31	-39	-48	-57	-66
Brazil	9,000	8,692	9,072	9,078	9,352	9,040	8,941	8,497	7,789	6,807	5,921
China	400	166	-772	-1,133	-1,372	-1,627	-1,925	-2,017	-2,230	-2,326	-2,331
South Africa	2,300	2,863	3,010	2,931	2,950	2,951	3,051	3,058	2,994	2,897	2,830
Thailand	-100	42	103	118	132	123	106	113	107	105	121
Ukraine	3,475	3,582	4,340	4,655	4,889	5,032	5,150	5,224	5,265	5,278	5,279
United States	44,071	44,763	44,882	46,206	47,930	49,909	51,081	52,712	55,123	58,049	60,793
Total Net Exports *	69,601	75,333	77,784	80,107	82,766	84,401	85,883	87,133	88,941	90,714	92,564
Net Importers											
Algeria	2,100	2,065	2,080	2,070	2,077	2,069	2,073	2,077	2,088	2,094	2,103
Canada	1,100	624	58	166	467	597	584	503	432	471	663
Egypt	4,000	3,900	4,433	4,945	5,490	5,996	6,271	6,481	6,732	6,990	7,255
European Union	0	2,983	3,034	3,016	2,929	2,861	2,774	2,697	2,635	2,555	2,488
India	-250	-747	-675	-741	-647	-380	-197	73	210	443	748
Indonesia	475	526	435	468	504	521	508	492	529	563	580
Israel	1,000	1,212	1,229	1,226	1,243	1,236	1,235	1,238	1,246	1,252	1,260
Japan	16,500	16,967	16,969	17,074	17,354	17,319	17,315	17,267	17,265	17,272	17,321
Malaysia	2,490	2,491	2,527	2,533	2,562	2,566	2,581	2,598	2,624	2,645	2,666
Mexico	7,900	9,029	9,114	9,349	9,804	10,128	10,482	10,822	11,140	11,434	11,729
Other Africa	3,845	3,462	4,250	4,711	4,903	5,072	5,249	5,431	5,713	6,032	6,350
Other Asia	-50	-227	-257	-248	-224	-209	-196	-169	-131	-93	-58
Other CIS †	120	466	470	487	521	548	583	618	661	704	750
Other Eastern Europe ‡	225	288	312	361	422	452	473	505	519	517	506
Other Latin America	10,585	11,001	11,447	11,581	11,723	11,789	11,864	11,997	12,195	12,396	12,587
Other Middle East	7,415	8,018	8,333	8,546	8,676	8,727	8,778	8,840	8,918	8,991	9,058
Pakistan	10	10	10	10	10	10	10	10	10	10	10
Philippines	100	699	809	898	953	1,019	1,052	1,097	1,178	1,243	1,293
Russia	-200	202	158	152	193	202	206	222	252	289	327
South Korea	7,200	6,918	6,886	6,993	7,024	7,080	7,183	7,234	7,222	7,169	7,076
Taiwan	4,000	3,731	3,632	3,464	3,500	3,455	3,502	3,559	3,641	3,665	3,667
Vietnam	500	806	891	989	1,091	1,166	1,267	1,381	1,516	1,660	1,793
Rest of World	-850	-1,503	-1,636	-1,628	-1,696	-1,728	-1,841	-1,858	-1,852	-1,809	-1,774
Residual	-64	-64	-64	-64	-64	-64	-64	-64	-64	-64	-64
Total Net Imports	69,601	75,333	77,784	80,107	82,766	84,401	85,883	87,133	88,941	90,714	92,564
Coarse Grain Prices											
(U.S. Dollars per Metric Ton)											
Corn (FOB Gulf)	194	185	184	191	192	199	202	204	203	203	202
Sorghum (FOB Gulf)	182	179	179	186	189	196	199	202	203	205	206
Barley (Canada Feed)	179	162	164	170	175	179	184	186	188	189	191

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Turkmenistan, Uzbekistan.

‡ Countries included: Albania, Bosnia and Herzegovina, Croatia, Macedonia, Serbia, Montenegro.

Barley Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Argentina	950	905	885	897	903	912	915	918	920	925	931
Australia	3,000	3,312	3,463	3,533	3,581	3,614	3,640	3,676	3,729	3,788	3,855
Canada	2,000	2,125	2,171	1,925	1,807	1,817	1,844	1,920	1,985	2,017	2,014
European Union	4,800	4,737	4,627	4,790	5,015	5,164	5,366	5,535	5,710	5,888	6,065
Other CIS †	460	385	423	432	445	464	479	494	506	518	531
Russia	2,300	1,648	1,681	1,746	1,731	1,785	1,808	1,808	1,789	1,782	1,760
Ukraine	5,475	4,812	4,928	5,020	5,022	5,000	4,928	4,876	4,826	4,791	4,755
United States	-218	-152	-67	-26	-29	-12	-6	3	-3	-3	-3
Total Net Exports *	18,985	17,924	18,177	18,342	18,504	18,756	18,980	19,231	19,464	19,710	19,912
Net Importers											
Algeria	350	270	248	238	229	228	224	224	222	220	215
Brazil	250	291	294	287	281	280	279	280	280	281	280
China	1,275	1,424	1,492	1,553	1,639	1,744	1,833	1,916	1,996	2,076	2,135
Israel	300	290	289	289	288	289	285	286	284	284	282
Japan	1,400	1,565	1,518	1,534	1,542	1,552	1,544	1,540	1,529	1,524	1,517
Mexico	125	170	154	150	137	129	119	113	116	127	136
Other Africa	1,910	2,033	2,100	2,164	2,211	2,279	2,340	2,403	2,464	2,527	2,588
Other Asia	50	54	95	93	86	85	93	99	105	108	112
Other Eastern Europe ‡	60	96	121	128	130	131	133	135	134	133	130
Other Latin America	355	389	374	394	414	436	460	486	512	538	563
Other Middle East	4,285	2,776	2,833	2,847	2,831	2,812	2,818	2,811	2,802	2,785	2,769
Pakistan	0	0	0	0	0	0	0	0	0	0	0
Saudi Arabia	7,300	7,200	7,377	7,436	7,506	7,603	7,676	7,769	7,846	7,935	8,013
South Africa	100	99	107	104	101	98	95	94	93	91	90
Taiwan	125	128	124	121	120	121	122	124	125	126	126
Rest of World	220	325	324	316	299	295	291	290	290	291	290
Residual	662	662	662	662	662	662	662	662	662	662	662
Total Net Imports	18,985	17,924	18,177	18,342	18,504	18,756	18,980	19,231	19,464	19,710	19,912
Coarse Grain Prices											
Corn (FOB Gulf)	194	185	184	191	192	199	202	204	203	203	202
Sorghum (FOB Gulf)	182	179	179	186	189	196	199	202	203	205	206
Barley (Canada Feed)	179	162	164	170	175	179	184	186	188	189	191

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Turkmenistan, Uzbekistan.

‡ Countries included: Albania, Bosnia and Herzegovina, Croatia, Macedonia, Serbia, Montenegro.

Sorghum Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Argentina	800	452	348	364	369	378	375	368	362	360	356
Australia	300	163	234	240	225	215	207	200	195	194	197
United States	3,302	3,937	3,683	3,732	3,770	3,771	3,776	3,828	3,916	4,013	4,115
Total Net Exports *	4,502	4,668	4,420	4,485	4,527	4,530	4,535	4,575	4,649	4,724	4,807
Net Importers											
India	-25	-40	-81	-71	-84	-86	-95	-97	-94	-73	-56
Israel	100	152	140	140	140	140	139	139	139	139	139
Japan	1,350	1,379	1,394	1,414	1,439	1,445	1,445	1,441	1,436	1,434	1,436
Mexico	2,000	1,827	1,959	1,999	2,048	2,054	2,068	2,095	2,170	2,251	2,339
Nigeria	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50
Pakistan	0	0	0	0	0	0	0	0	0	0	0
South Africa	-25	-26	-24	-27	-28	-30	-32	-32	-32	-32	-33
Rest of World	825	1,083	701	705	672	664	656	673	678	674	666
Residual	227	227	227	227	227	227	227	227	227	227	227
Total Net Imports	4,502	4,668	4,420	4,485	4,527	4,530	4,535	4,575	4,649	4,724	4,807
Coarse Grain Prices											
(U.S. Dollars per Metric Ton)											
Corn (FOB Gulf)	194	185	184	191	192	199	202	204	203	203	202
Sorghum (FOB Gulf)	182	179	179	186	189	196	199	202	203	205	206
Barley (Canada Feed)	179	162	164	170	175	179	184	186	188	189	191

* Total net exports are the sum of all positive net exports and negative net imports.

World Corn Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	157,376	157,968	159,573	159,674	160,899	160,997	161,941	162,572	162,989	162,878	162,869
(Metric Tons per Hectare)											
Yield	5.03	5.04	5.11	5.17	5.23	5.29	5.35	5.41	5.47	5.53	5.58
(Thousand Metric Tons)											
Production	791,039	796,772	815,839	826,120	841,011	851,044	866,157	880,204	891,731	900,082	908,813
Beginning Stocks	128,218	135,582	133,313	134,717	133,574	134,394	133,398	133,527	134,386	136,085	137,263
Domestic Supply	919,257	932,354	949,152	960,837	974,585	985,437	999,554	1,013,731	1,026,117	1,036,167	1,046,076
Feed Use	486,602	488,529	493,923	496,487	504,351	508,819	515,197	521,344	528,865	535,739	542,453
Food and Other	297,074	310,512	320,512	330,777	335,840	343,220	350,830	358,001	361,168	363,165	365,252
Ending Stocks	135,582	133,313	134,717	133,574	134,394	133,398	133,527	134,386	136,085	137,263	138,371
Domestic Use	919,257	932,354	949,152	960,837	974,585	985,437	999,554	1,013,731	1,026,117	1,036,167	1,046,076
Trade *	69,601	75,333	77,784	80,107	82,766	84,401	85,883	87,133	88,941	90,714	92,564
Stocks-to-Use Ratio	17.30	16.68	16.54	16.15	16.00	15.66	15.42	15.28	15.29	15.27	15.24

* Excludes intraregional trade.

World Barley Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	55,279	57,434	56,836	56,782	56,656	56,679	56,590	56,586	56,539	56,527	56,462
(Metric Tons per Hectare)											
Yield	2.78	2.58	2.59	2.61	2.62	2.64	2.66	2.67	2.69	2.71	2.72
(Thousand Metric Tons)											
Production	153,539	148,357	147,275	148,026	148,715	149,648	150,417	151,355	152,168	153,042	153,766
Beginning Stocks	18,259	28,244	30,040	30,519	30,922	31,145	31,302	31,443	31,630	31,864	32,129
Domestic Supply	171,798	176,601	177,315	178,545	179,637	180,793	181,718	182,798	183,799	184,906	185,895
Feed Use	97,022	98,369	98,163	98,459	98,904	99,413	99,762	100,175	100,478	100,835	101,202
Food and Other	46,532	48,191	48,633	49,164	49,589	50,079	50,514	50,992	51,457	51,942	52,355
Ending Stocks	28,244	30,040	30,519	30,922	31,145	31,302	31,443	31,630	31,864	32,129	32,338
Domestic Use	171,798	176,601	177,315	178,545	179,637	180,793	181,718	182,798	183,799	184,906	185,895
Trade *	18,985	17,924	18,177	18,342	18,504	18,756	18,980	19,231	19,464	19,710	19,912
Stocks-to-Use Ratio	19.67	20.50	20.79	20.95	20.97	20.94	20.92	20.92	20.97	21.03	21.06

* Excludes intraregional trade.

World Sorghum Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Hectares)											
Area Harvested	40,089	40,071	40,696	40,642	40,554	40,509	40,575	40,679	40,767	40,797	40,815
(Metric Tons per Hectare)											
Yield	1.59	1.55	1.55	1.56	1.57	1.59	1.60	1.61	1.63	1.64	1.65
(Thousand Metric Tons)											
Production	63,792	62,067	63,099	63,422	63,767	64,213	64,870	65,644	66,362	66,955	67,520
Beginning Stocks	4,418	5,575	5,354	5,366	5,308	5,298	5,251	5,240	5,261	5,320	5,367
Domestic Supply	68,210	67,642	68,453	68,787	69,076	69,511	70,121	70,884	71,623	72,275	72,887
Feed Use	27,377	26,068	25,979	25,856	25,828	25,839	25,894	25,963	26,018	26,046	26,061
Food and Other	35,259	36,220	37,109	37,623	37,950	38,421	38,988	39,659	40,285	40,862	41,406
Ending Stocks	5,575	5,354	5,366	5,308	5,298	5,251	5,240	5,261	5,320	5,367	5,420
Domestic Use	68,210	67,642	68,453	68,787	69,076	69,511	70,121	70,884	71,623	72,275	72,887
Trade *	4,502	4,668	4,420	4,485	4,527	4,530	4,535	4,575	4,649	4,724	4,807
(Percent)											
Stocks-to-Use Ratio	8.90	8.60	8.51	8.36	8.31	8.17	8.08	8.02	8.02	8.02	8.03

* Excludes intraregional trade.

U.S. Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	31,825	32,044	32,547	32,627	32,845	32,973	33,364	33,706	33,740	33,675	33,635
(Metric Tons per Hectare)											
Yield	9.66	9.79	9.92	10.05	10.16	10.29	10.41	10.55	10.69	10.82	10.94
(Thousand Metric Tons)											
Production	307,386	313,573	322,787	327,757	333,832	339,223	347,423	355,477	360,587	364,230	367,972
Beginning Stocks	41,255	45,027	42,817	43,085	41,339	40,816	39,131	38,451	38,468	38,935	39,019
Domestic Supply	348,641	358,600	365,604	370,842	375,171	380,040	386,554	393,928	399,055	403,165	406,991
Feed Use	135,714	134,279	133,878	131,520	132,266	131,488	132,282	133,155	134,803	136,206	137,474
Food and Other	123,830	136,741	143,759	151,777	154,158	159,512	164,740	169,593	170,194	169,891	169,586
Ending Stocks	45,027	42,817	43,085	41,339	40,816	39,131	38,451	38,468	38,935	39,019	39,137
Domestic Use	304,570	313,837	320,722	324,636	327,241	330,131	335,473	341,216	343,932	345,116	346,198
Net Trade	44,071	44,763	44,882	46,206	47,930	49,909	51,081	52,712	55,123	58,049	60,793
Sorghum											
Area Harvested	2,942	2,690	2,642	2,604	2,584	2,567	2,569	2,578	2,574	2,571	2,569
(Metric Tons per Hectare)											
Yield	4.08	4.08	4.08	4.10	4.11	4.12	4.13	4.14	4.16	4.17	4.19
(Thousand Metric Tons)											
Production	11,998	10,962	10,788	10,671	10,609	10,567	10,602	10,681	10,711	10,735	10,753
Beginning Stocks	1,340	2,238	1,947	1,886	1,815	1,791	1,756	1,748	1,764	1,788	1,805
Domestic Supply	13,338	13,200	12,735	12,557	12,424	12,358	12,358	12,429	12,474	12,523	12,558
Feed Use	6,011	5,380	5,088	4,800	4,534	4,375	4,238	4,122	3,956	3,783	3,578
Food and Other	1,788	1,936	2,079	2,210	2,329	2,457	2,595	2,716	2,814	2,921	3,038
Ending Stocks	2,238	1,947	1,886	1,815	1,791	1,756	1,748	1,764	1,788	1,805	1,827
Domestic Use	10,036	9,263	9,052	8,825	8,654	8,587	8,581	8,601	8,559	8,510	8,443
Net Trade	3,302	3,937	3,683	3,732	3,770	3,771	3,776	3,828	3,916	4,013	4,115

U.S. Coarse Grain Supply and Utilization (continued)

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Barley											
Area Harvested	1,524	1,535	1,542	1,527	1,514	1,500	1,489	1,472	1,450	1,425	1,401
(Thousand Hectares)											
Yield Actual	3.42	3.43	3.46	3.50	3.53	3.56	3.59	3.62	3.66	3.69	3.72
(Metric Tons per Hectare)											
Production	5,214	5,268	5,341	5,340	5,343	5,342	5,349	5,335	5,301	5,259	5,217
Beginning Stocks	1,485	1,692	1,831	1,880	1,876	1,885	1,880	1,885	1,892	1,906	1,918
Domestic Supply	6,699	6,960	7,173	7,220	7,219	7,227	7,229	7,220	7,193	7,166	7,135
(Thousand Metric Tons)											
Feed Use	1,742	1,654	1,711	1,719	1,706	1,700	1,691	1,673	1,639	1,605	1,570
Food and Other	3,483	3,627	3,649	3,651	3,657	3,660	3,659	3,652	3,651	3,645	3,636
Ending Stocks	1,692	1,831	1,880	1,876	1,885	1,880	1,885	1,892	1,906	1,918	1,932
Domestic Use	6,917	7,112	7,240	7,246	7,249	7,239	7,235	7,217	7,196	7,168	7,139
Net Trade	-218	-152	-67	-26	-29	-12	-6	3	-3	-3	-3
Oats											
Area Harvested	565	609	606	593	578	566	553	542	535	529	522
(Thousand Hectares)											
Yield Actual	2.28	2.25	2.26	2.27	2.28	2.29	2.31	2.32	2.33	2.34	2.35
(Metric Tons per Hectare)											
Production	1,287	1,371	1,372	1,348	1,319	1,298	1,275	1,256	1,245	1,237	1,228
Beginning Stocks	969	978	1,035	1,065	1,072	1,072	1,069	1,066	1,063	1,067	1,072
Domestic Supply	2,256	2,349	2,407	2,413	2,390	2,371	2,344	2,322	2,309	2,304	2,300
(Thousand Metric Tons)											
Feed and Residual	2,041	1,993	1,993	1,995	1,969	1,958	1,935	1,911	1,885	1,866	1,845
Food, Seed and Industrial	1,089	1,133	1,143	1,151	1,160	1,168	1,176	1,186	1,196	1,206	1,217
Ending Stocks	978	1,035	1,065	1,072	1,072	1,069	1,066	1,063	1,067	1,072	1,079
Domestic Use	4,108	4,160	4,201	4,218	4,201	4,195	4,177	4,161	4,148	4,144	4,141
Net Trade	-1,852	-1,811	-1,795	-1,804	-1,811	-1,824	-1,832	-1,839	-1,839	-1,840	-1,841

Algerian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	1	1	1	1	1	1	1	1	1	1	1
Yield	1.00	1.00	1.01	1.01	1.01	1.02	1.02	1.03	1.03	1.03	1.04
Production	1	1	1	1	1	1	1	1	1	1	1
Beginning Stocks	312	313	312	314	313	313	312	312	313	314	316
Domestic Supply	313	314	313	315	314	314	313	314	314	315	317
Feed Use	2,100	2,067	2,079	2,072	2,078	2,071	2,074	2,077	2,087	2,094	2,103
Food and Other	0	0	0	0	0	0	0	0	0	0	0
Ending Stocks	313	312	314	313	313	312	312	313	314	316	317
Domestic Use	2,413	2,379	2,393	2,385	2,391	2,383	2,386	2,390	2,402	2,410	2,420
Net Trade	-2,100	-2,065	-2,080	-2,070	-2,077	-2,069	-2,073	-2,077	-2,088	-2,094	-2,103
Barley											
Area Harvested	700	713	729	730	731	733	732	733	732	733	733
Yield	1.00	1.01	1.01	1.02	1.03	1.03	1.04	1.04	1.05	1.06	1.06
Production	700	718	738	744	750	756	760	765	770	775	780
Beginning Stocks	354	304	308	310	308	306	305	305	305	307	308
Domestic Supply	1,054	1,022	1,046	1,054	1,058	1,062	1,066	1,070	1,075	1,082	1,088
Feed Use	950	833	830	829	823	824	822	823	821	821	819
Food and Other	150	151	154	156	158	160	163	166	169	172	175
Ending Stocks	304	308	310	308	306	305	305	305	307	308	309
Domestic Use	1,404	1,292	1,294	1,292	1,286	1,290	1,290	1,294	1,297	1,301	1,303
Net Trade	-350	-270	-248	-238	-229	-228	-224	-224	-222	-220	-215

Argentine Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	2,500	2,878	2,981	3,060		(Thousand Hectares)					
					3,117	3,119	3,157	3,180	3,206	3,207	3,226
Yield	6.60	7.19	7.26	7.33		(Metric Tons per Hectare)					
					7.40	7.48	7.55	7.62	7.69	7.76	7.83
Production	16,500	20,695	21,651	22,441	23,082	23,320	23,830	24,227	24,654	24,894	25,271
Beginning Stocks	557	557	916	992	1,011	1,031	1,036	1,046	1,061	1,083	1,097
Domestic Supply	17,057	21,252	22,567	23,433	24,093	24,351	24,866	25,273	25,715	25,977	26,369
Feed Use	5,600	5,703	5,852	5,977	6,136	6,283	6,467	6,644	6,846	7,065	7,297
Food and Other	1,900	1,887	1,918	1,944	1,982	2,003	2,033	2,066	2,106	2,138	2,171
Ending Stocks	557	916	992	1,011	1,031	1,036	1,046	1,061	1,083	1,097	1,112
Domestic Use	8,057	8,506	8,762	8,931	9,148	9,322	9,546	9,771	10,035	10,300	10,580
Net Trade	9,000	12,746	13,805	14,502	14,945	15,029	15,320	15,502	15,680	15,677	15,789
Sorghum											
Area Harvested	825	681	636	631		(Thousand Hectares)					
					630	632	633	634	637	639	642
Yield	5.21	4.77	4.81	4.84		(Metric Tons per Hectare)					
					4.88	4.91	4.94	4.98	5.01	5.05	5.08
Production	4,300	3,251	3,058	3,055	3,074	3,100	3,127	3,156	3,191	3,224	3,259
Beginning Stocks	180	780	914	946	954	958	958	960	962	966	969
Domestic Supply	4,480	4,031	3,972	4,001	4,027	4,058	4,086	4,116	4,153	4,190	4,227
Feed Use	2,700	2,460	2,472	2,477	2,494	2,515	2,544	2,578	2,616	2,654	2,693
Food and Other	200	204	206	206	207	207	207	207	208	208	207
Ending Stocks	780	914	946	954	958	958	960	962	966	969	971
Domestic Use	3,680	3,579	3,624	3,637	3,658	3,680	3,711	3,748	3,791	3,830	3,871
Net Trade	800	452	348	364	369	378	375	368	362	360	356
Barley											
Area Harvested	480	463	453	454		(Thousand Hectares)					
					453	455	454	454	454	454	454
Yield	3.33	3.36	3.39	3.42		(Metric Tons per Hectare)					
					3.45	3.48	3.51	3.54	3.57	3.60	3.63
Production	1,600	1,557	1,536	1,554	1,565	1,582	1,592	1,607	1,620	1,634	1,648
Beginning Stocks	48	48	52	54	55	56	57	57	59	61	62
Domestic Supply	1,648	1,605	1,588	1,607	1,620	1,638	1,649	1,665	1,679	1,694	1,710
Feed Use	250	246	246	247	249	253	256	261	266	272	277
Food and Other	400	402	404	409	412	417	421	426	431	435	439
Ending Stocks	48	52	54	55	56	57	57	59	61	62	63
Domestic Use	698	700	704	711	717	726	734	746	759	769	779
Net Trade	950	905	885	897	903	912	915	918	920	925	931

Australian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	70	66	66	66		(Thousand Hectares)					
					66	65	65	65	65	64	64
(Metric Tons per Hectare)											
Yield	5.71	5.74	5.76	5.78	5.80	5.82	5.84	5.86	5.88	5.90	5.92
(Thousand Metric Tons)											
Production	400	381	377	381	381	380	379	380	380	380	380
Beginning Stocks	14	34	39	40	41	41	41	42	42	42	42
Domestic Supply	414	415	417	422	422	421	421	421	422	422	422
Feed Use	250	249	247	253	261	268	274	280	287	293	298
Food and Other	125	125	126	128	131	134	136	139	142	144	147
Ending Stocks	34	39	40	41	41	41	42	42	42	42	42
Domestic Use	409	414	413	422	433	443	452	461	470	479	488
Net Trade	5	1	3	0	-11	-22	-31	-39	-48	-57	-66
Sorghum											
Area Harvested	800	751	756	760		(Thousand Hectares)					
					761	762	764	766	768	770	772
(Metric Tons per Hectare)											
Yield	2.50	2.54	2.58	2.62	2.66	2.70	2.74	2.78	2.83	2.87	2.91
(Thousand Metric Tons)											
Production	2,000	1,907	1,952	1,993	2,026	2,060	2,097	2,133	2,170	2,206	2,243
Beginning Stocks	183	78	95	100	103	105	106	107	107	109	110
Domestic Supply	2,183	1,985	2,047	2,093	2,129	2,166	2,203	2,240	2,277	2,314	2,353
Feed Use	1,800	1,722	1,708	1,744	1,794	1,839	1,885	1,927	1,968	2,005	2,040
Food and Other	5	5	5	5	5	5	5	5	5	5	5
Ending Stocks	78	95	100	103	105	106	107	107	109	110	111
Domestic Use	1,883	1,822	1,813	1,853	1,904	1,950	1,996	2,039	2,082	2,120	2,156
Net Trade	300	163	234	240	225	215	207	200	195	194	197
Barley											
Area Harvested	4,200	4,177	4,198	4,221		(Thousand Hectares)					
					4,226	4,239	4,242	4,248	4,258	4,268	4,277
(Metric Tons per Hectare)											
Yield	1.55	1.62	1.64	1.67	1.69	1.71	1.74	1.76	1.79	1.81	1.83
(Thousand Metric Tons)											
Production	6,500	6,756	6,891	7,030	7,139	7,262	7,369	7,481	7,601	7,721	7,839
Beginning Stocks	559	659	679	682	701	709	717	725	733	744	756
Domestic Supply	7,059	7,415	7,569	7,713	7,841	7,971	8,086	8,206	8,334	8,465	8,595
Feed Use	2,450	2,468	2,461	2,504	2,563	2,636	2,702	2,762	2,815	2,863	2,905
Food and Other	950	956	963	974	987	1,005	1,019	1,035	1,047	1,059	1,069
Ending Stocks	659	679	682	701	709	717	725	733	744	756	766
Domestic Use	4,059	4,103	4,107	4,180	4,260	4,358	4,446	4,530	4,606	4,677	4,740
Net Trade	3,000	3,312	3,463	3,533	3,581	3,614	3,640	3,676	3,729	3,788	3,855

Brazilian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	14,200	13,991	14,507	14,508	14,762	14,707	14,770	14,764	14,775	14,688	14,638
(Metric Tons per Hectare)											
Yield	3.63	3.87	3.90	3.95	3.98	4.02	4.06	4.10	4.14	4.18	4.22
(Thousand Metric Tons)											
Production	51,500	54,085	56,642	57,237	58,809	59,173	60,002	60,547	61,160	61,366	61,718
Beginning Stocks	13,242	8,242	6,653	6,184	5,954	5,879	5,817	5,779	5,755	5,755	5,754
Domestic Supply	64,742	62,327	63,295	63,421	64,763	65,051	65,819	66,326	66,915	67,122	67,472
Feed Use	40,000	40,026	41,009	41,338	42,400	43,012	43,846	44,749	45,957	47,070	48,223
Food and Other	7,500	6,956	7,030	7,050	7,133	7,183	7,253	7,325	7,413	7,491	7,572
Ending Stocks	8,242	6,653	6,184	5,954	5,879	5,817	5,779	5,755	5,755	5,754	5,756
Domestic Use	55,742	53,635	54,223	54,342	55,411	56,012	56,878	57,829	59,126	60,315	61,551
Net Trade	9,000	8,692	9,072	9,078	9,352	9,040	8,941	8,497	7,789	6,807	5,921
Barley											
Area Harvested	80	71	70	70	72	74	75	76	77	78	79
(Metric Tons per Hectare)											
Yield	2.94	2.66	2.68	2.71	2.74	2.77	2.80	2.83	2.86	2.89	2.92
(Thousand Metric Tons)											
Production	235	188	187	191	198	205	210	215	220	225	229
Beginning Stocks	37	42	40	39	36	34	32	31	30	29	29
Domestic Supply	272	230	227	230	234	238	242	246	250	254	258
Feed Use	0	0	0	0	0	0	0	0	0	0	0
Food and Other	480	481	482	481	482	486	490	496	501	506	510
Ending Stocks	42	40	39	36	34	32	31	30	29	29	28
Domestic Use	522	521	521	516	515	519	521	526	530	535	538
Net Trade	-250	-291	-294	-287	-281	-280	-279	-280	-280	-281	-280

Canadian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	1,170	1,209	1,294	1,311	1,302	1,290	1,292	1,300	1,313	1,318	1,314
(Thousand Hectares)											
Yield	9.06	9.15	9.23	9.32	9.40	9.49	9.58	9.66	9.75	9.83	9.92
(Metric Tons per Hectare)											
Production	10,600	11,056	11,943	12,212	12,243	12,246	12,375	12,560	12,801	12,962	13,034
Beginning Stocks	1,457	1,657	1,655	1,688	1,721	1,741	1,741	1,730	1,718	1,721	1,737
Domestic Supply	12,057	12,713	13,597	13,899	13,964	13,987	14,116	14,290	14,519	14,683	14,771
(Thousand Metric Tons)											
Feed Use	7,500	7,305	7,385	7,638	7,930	8,042	8,127	8,185	8,263	8,348	8,512
Food and Other	4,000	4,378	4,583	4,707	4,761	4,802	4,842	4,891	4,966	5,070	5,172
Ending Stocks	1,657	1,655	1,688	1,721	1,741	1,741	1,730	1,718	1,721	1,737	1,750
Domestic Use	13,157	13,337	13,656	14,066	14,432	14,585	14,699	14,793	14,951	15,155	15,434
Net Trade	-1,100	-624	-58	-166	-467	-597	-584	-503	-432	-471	-663
Barley											
Area Harvested	3,500	3,715	3,766	3,738	3,722	3,745	3,735	3,757	3,771	3,786	3,782
(Thousand Hectares)											
Yield	3.37	3.18	3.20	3.23	3.25	3.27	3.29	3.32	3.34	3.36	3.39
(Metric Tons per Hectare)											
Production	11,780	11,819	12,066	12,061	12,093	12,252	12,306	12,464	12,594	12,731	12,806
Beginning Stocks	1,573	1,653	1,678	1,768	1,838	1,855	1,857	1,823	1,796	1,795	1,827
Domestic Supply	13,353	13,472	13,744	13,829	13,930	14,108	14,164	14,287	14,390	14,526	14,633
(Thousand Metric Tons)											
Feed Use	8,300	8,286	8,388	8,621	8,812	8,964	9,028	9,100	9,129	9,182	9,268
Food and Other	1,400	1,383	1,416	1,445	1,456	1,469	1,468	1,472	1,481	1,500	1,511
Ending Stocks	1,653	1,678	1,768	1,838	1,855	1,857	1,823	1,796	1,795	1,827	1,840
Domestic Use	11,353	11,347	11,573	11,904	12,124	12,291	12,319	12,367	12,405	12,509	12,619
Net Trade	2,000	2,125	2,171	1,925	1,807	1,817	1,844	1,920	1,985	2,017	2,014

Chinese Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	29,400	29,497	29,704	29,912	30,308	30,463	30,660	30,849	31,072	31,227	31,374
(Metric Tons per Hectare)											
Yield	5.63	5.49	5.55	5.61	5.67	5.73	5.79	5.85	5.91	5.97	6.03
(Thousand Metric Tons)											
Production	165,500	161,871	164,797	167,758	171,802	174,519	177,494	180,450	183,625	186,421	189,191
Beginning Stocks	39,394	46,494	47,205	48,083	48,628	49,655	50,299	50,941	51,535	52,320	53,011
Domestic Supply	204,894	208,365	212,002	215,841	220,430	224,174	227,793	231,391	235,160	238,741	242,201
Feed Use	111,000	112,861	115,895	118,942	122,197	125,040	127,804	130,458	133,216	135,874	138,383
Food and Other	47,000	48,133	48,795	49,404	49,950	50,463	50,973	51,415	51,855	52,182	52,542
Ending Stocks	46,494	47,205	48,083	48,628	49,655	50,299	50,941	51,535	52,320	53,011	53,608
Domestic Use	204,494	208,199	212,774	216,974	221,802	225,801	229,718	233,409	237,391	241,067	244,533
Net Trade	400	166	-772	-1,133	-1,372	-1,627	-1,925	-2,017	-2,230	-2,326	-2,331
Barley											
Area Harvested	960	974	982	990	992	996	996	999	1,001	1,005	1,009
(Metric Tons per Hectare)											
Yield	3.54	3.56	3.59	3.62	3.64	3.67	3.69	3.72	3.75	3.77	3.80
(Thousand Metric Tons)											
Production	3,400	3,473	3,526	3,581	3,613	3,654	3,678	3,715	3,749	3,791	3,832
Beginning Stocks	281	256	269	273	276	279	283	286	289	292	295
Domestic Supply	3,681	3,729	3,795	3,853	3,889	3,933	3,961	4,001	4,037	4,083	4,126
Feed Use	800	870	920	982	1,034	1,099	1,159	1,222	1,281	1,345	1,408
Food and Other	3,900	4,014	4,095	4,149	4,215	4,294	4,349	4,406	4,461	4,518	4,557
Ending Stocks	256	269	273	276	279	283	286	289	292	295	297
Domestic Use	4,956	5,153	5,287	5,407	5,528	5,677	5,793	5,917	6,034	6,158	6,262
Net Trade	-1,275	-1,424	-1,492	-1,553	-1,639	-1,744	-1,833	-1,916	-1,996	-2,076	-2,135

Egyptian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	725	715	716	709	718	718	726	728	729	725	722
(Metric Tons per Hectare)											
Yield	8.52	8.56	8.60	8.64	8.68	8.72	8.77	8.81	8.85	8.89	8.93
(Thousand Metric Tons)											
Production	6,175	6,124	6,156	6,127	6,234	6,267	6,363	6,410	6,449	6,445	6,446
Beginning Stocks	845	720	743	751	743	743	737	735	734	738	742
Domestic Supply	7,020	6,844	6,899	6,878	6,977	7,010	7,100	7,145	7,184	7,183	7,188
Feed Use	8,000	7,714	8,234	8,717	9,317	9,844	10,173	10,388	10,618	10,818	11,026
Food and Other	2,300	2,286	2,347	2,363	2,407	2,425	2,463	2,503	2,559	2,612	2,671
Ending Stocks	720	743	751	743	743	737	735	734	738	742	747
Domestic Use	11,020	10,743	11,332	11,823	12,467	13,006	13,371	13,626	13,916	14,173	14,444
Net Trade	-4,000	-3,900	-4,433	-4,945	-5,490	-5,996	-6,271	-6,481	-6,732	-6,990	-7,255

European Union Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	8,957	8,992	8,903	8,813	8,800	8,766	8,757	8,739	8,718	8,693	8,664
(Thousand Hectares)											
Yield	6.83	6.62	6.68	6.73	6.79	6.84	6.89	6.95	7.00	7.06	7.11
(Metric Tons per Hectare)											
Production	61,197	59,567	59,458	59,331	59,724	59,969	60,377	60,729	61,051	61,349	61,612
Beginning Stocks	4,973	5,670	6,002	6,044	6,104	6,167	6,206	6,275	6,348	6,429	6,509
Domestic Supply	66,170	65,237	65,460	65,375	65,828	66,136	66,583	67,004	67,399	67,777	68,121
Feed Use	46,500	48,740	48,817	48,531	48,686	48,769	48,904	49,013	49,099	49,152	49,206
Food and Other	14,000	13,479	13,633	13,757	13,904	14,023	14,178	14,339	14,508	14,672	14,823
Ending Stocks	5,670	6,002	6,044	6,104	6,167	6,206	6,275	6,348	6,429	6,509	6,579
Domestic Use	66,170	68,221	68,494	68,392	68,757	68,997	69,356	69,700	70,035	70,332	70,609
Net Trade	0	-2,983	-3,034	-3,016	-2,929	-2,861	-2,774	-2,697	-2,635	-2,555	-2,488
Barley											
Area Harvested	14,674	14,550	14,161	14,118	14,104	14,054	14,043	14,019	13,990	13,956	13,917
(Thousand Hectares)											
Yield	4.47	4.36	4.38	4.41	4.44	4.47	4.50	4.53	4.56	4.58	4.61
(Metric Tons per Hectare)											
Production	65,579	63,379	62,088	62,304	62,645	62,830	63,180	63,475	63,742	63,990	64,206
Beginning Stocks	5,713	10,992	12,131	12,174	12,278	12,360	12,412	12,504	12,606	12,715	12,826
Domestic Supply	71,292	74,371	74,218	74,479	74,922	75,190	75,592	75,979	76,348	76,705	77,032
Feed Use	38,500	39,376	39,117	38,906	38,877	38,803	38,732	38,656	38,551	38,429	38,313
Food and Other	17,000	18,128	18,300	18,505	18,670	18,811	18,990	19,182	19,372	19,561	19,733
Ending Stocks	10,992	12,131	12,174	12,278	12,360	12,412	12,504	12,606	12,715	12,826	12,921
Domestic Use	66,492	69,635	69,591	69,689	69,907	70,026	70,225	70,444	70,639	70,817	70,966
Net Trade	4,800	4,737	4,627	4,790	5,015	5,164	5,366	5,535	5,710	5,888	6,065

Indian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	8,300	8,170	8,205	8,274		(Thousand Hectares)					
Yield	2.17	2.19	2.21	2.23	2.24	2.26	2.28	2.30	2.32	2.34	2.36
Production	18,000	17,874	18,106	18,416	18,692	18,698	18,866	18,933	19,190	19,313	19,370
Beginning Stocks	475	1,025	1,138	1,181	1,197	1,214	1,223	1,237	1,252	1,270	1,288
Domestic Supply	18,475	18,899	19,244	19,597	19,889	19,913	20,090	20,170	20,441	20,583	20,658
Feed Use	6,700	6,630	6,798	6,916	7,075	7,180	7,338	7,498	7,702	7,898	8,096
Food and Other	10,500	10,384	10,590	10,743	10,953	11,129	11,318	11,493	11,679	11,841	12,005
Ending Stocks	1,025	1,138	1,181	1,197	1,214	1,223	1,237	1,252	1,270	1,288	1,304
Domestic Use	18,225	18,152	18,569	18,856	19,242	19,533	19,893	20,242	20,651	21,026	21,406
Net Trade	250	747	675	741	647	380	197	-73	-210	-443	-748
Sorghum											
Area Harvested	7,500	8,400	8,531	8,572	8,575	8,567	8,575	8,562	8,560	8,563	8,569
Yield	0.87	0.88	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96
Production	6,500	7,356	7,547	7,661	7,740	7,810	7,894	7,958	8,033	8,113	8,196
Beginning Stocks	232	177	161	161	161	163	164	166	168	171	173
Domestic Supply	6,732	7,533	7,708	7,821	7,901	7,973	8,058	8,125	8,202	8,284	8,368
Feed Use	1,200	1,383	1,409	1,432	1,454	1,477	1,500	1,522	1,547	1,573	1,599
Food and Other	5,330	5,949	6,058	6,156	6,200	6,246	6,297	6,337	6,390	6,465	6,538
Ending Stocks	177	161	161	161	163	164	166	168	171	173	175
Domestic Use	6,707	7,494	7,628	7,750	7,817	7,887	7,963	8,028	8,108	8,210	8,312
Net Trade	25	40	81	71	84	86	95	97	94	73	56

Indonesian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	3,700	3,612	3,696	3,697		(Thousand Hectares)					
Yield	2.09	2.11	2.12	2.14	2.15	2.17	2.18	2.20	2.21	2.23	2.24
Production	7,750	7,619	7,852	7,910	7,997	8,072	8,181	8,305	8,394	8,459	8,538
Beginning Stocks	579	604	607	629	643	657	660	666	674	687	698
Domestic Supply	8,329	8,223	8,460	8,539	8,640	8,729	8,841	8,971	9,068	9,145	9,236
Feed Use	4,200	4,169	4,238	4,292	4,372	4,431	4,500	4,566	4,642	4,710	4,773
Food and Other	4,000	3,972	4,027	4,072	4,116	4,158	4,183	4,224	4,268	4,301	4,334
Ending Stocks	604	607	629	643	657	660	666	674	687	698	709
Domestic Use	8,804	8,749	8,894	9,007	9,144	9,249	9,349	9,463	9,597	9,708	9,816
Net Trade	-475	-526	-435	-468	-504	-521	-508	-492	-529	-563	-580

Israeli Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	102	102	100	103	102	106	105	103	103	103	104
Domestic Supply	102	102	100	103	102	106	105	103	103	103	104
Feed Use	900	1,118	1,127	1,126	1,136	1,132	1,131	1,131	1,136	1,139	1,144
Food and Other	100	96	99	100	104	105	106	107	110	112	114
Ending Stocks	102	100	103	102	106	105	103	103	103	104	105
Domestic Use	1,102	1,314	1,329	1,329	1,345	1,342	1,339	1,341	1,349	1,355	1,364
Net Trade	-1,000	-1,212	-1,229	-1,226	-1,243	-1,236	-1,235	-1,238	-1,246	-1,252	-1,260
Sorghum											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	12	0	13	13	13	14	13	13	13	13	13
Domestic Supply	12	0	13	13	13	14	13	13	13	13	13
Feed Use	107	134	135	135	135	135	134	134	134	134	134
Food and Other	5	5	5	5	5	5	5	5	5	5	5
Ending Stocks	0	13	13	13	14	13	13	13	13	13	13
Domestic Use	112	152	153	153	154	153	153	152	152	152	152
Net Trade	-100	-152	-140	-140	-140	-140	-139	-139	-139	-139	-139
Barley											
Area Harvested	0	0	0	0	0	0	0	0	0	0	0
(Metric Tons per Hectare)											
Yield	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03
(Thousand Metric Tons)											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	44	64	65	66	66	66	66	65	65	65	65
Domestic Supply	44	64	65	66	66	66	66	65	65	65	65
Feed Use	270	279	278	278	277	278	275	275	273	272	271
Food and Other	10	10	10	11	11	11	11	11	11	11	12
Ending Stocks	64	65	66	66	66	66	65	65	65	65	64
Domestic Use	344	354	354	354	354	355	352	351	349	349	347
Net Trade	-300	-290	-289	-289	-288	-289	-285	-286	-284	-284	-282

Japanese Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Production	1	1	1	1	1	1	1	1	1	1	1
Beginning Stocks	1,264	1,265	1,404	1,429	1,437	1,448	1,436	1,433	1,437	1,455	1,473
Domestic Supply	1,265	1,266	1,405	1,430	1,438	1,449	1,437	1,434	1,438	1,456	1,474
Feed Use	11,700	11,969	12,120	12,261	12,533	12,569	12,578	12,543	12,536	12,558	12,614
Food and Other	4,800	4,859	4,825	4,806	4,811	4,763	4,741	4,721	4,711	4,697	4,688
Ending Stocks	1,265	1,404	1,429	1,437	1,448	1,436	1,433	1,437	1,455	1,473	1,492
Domestic Use	17,765	18,233	18,374	18,504	18,792	18,768	18,751	18,701	18,702	18,729	18,795
Net Trade	-16,500	-16,967	-16,969	-17,074	-17,354	-17,319	-17,315	-17,267	-17,265	-17,272	-17,321
Sorghum											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	105	105	114	116	116	116	115	115	115	116	116
Domestic Supply	105	105	114	116	116	116	115	115	115	116	116
Feed Use	1,350	1,370	1,392	1,414	1,439	1,446	1,445	1,441	1,435	1,433	1,435
Food and Other	0	0	0	0	0	0	0	0	0	0	0
Ending Stocks	105	114	116	116	116	115	115	115	116	116	117
Domestic Use	1,455	1,484	1,508	1,530	1,555	1,561	1,560	1,556	1,550	1,549	1,552
Net Trade	-1,350	-1,379	-1,394	-1,414	-1,439	-1,445	-1,445	-1,441	-1,436	-1,434	-1,436
Barley											
Area Harvested	52	47	44	45	45	46	46	47	47	48	48
Yield	3.31	3.34	3.36	3.39	3.42	3.45	3.47	3.50	3.53	3.56	3.58
Production	172	155	147	151	154	157	160	164	166	169	171
Beginning Stocks	436	408	487	493	496	493	490	486	487	489	493
Domestic Supply	608	563	635	644	650	650	650	650	653	658	664
Feed Use	1,300	1,340	1,360	1,383	1,400	1,414	1,412	1,408	1,397	1,395	1,392
Food and Other	300	301	299	300	298	298	296	296	295	294	293
Ending Stocks	408	487	493	496	493	490	486	487	489	493	496
Domestic Use	2,008	2,128	2,152	2,179	2,192	2,202	2,195	2,190	2,182	2,182	2,181
Net Trade	-1,400	-1,565	-1,518	-1,534	-1,542	-1,552	-1,544	-1,540	-1,529	-1,524	-1,517

Malaysian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	28	26	25	25	24	24	24	23	23	23	23
Yield	3.57	3.59	3.61	3.63	3.65	3.67	3.69	3.71	3.73	3.76	3.78
Production	100	95	92	89	88	87	87	87	87	86	86
Beginning Stocks	300	315	325	335	339	345	347	350	354	359	364
Domestic Supply	400	410	417	424	427	432	434	437	441	446	450
Feed Use	2,400	2,398	2,425	2,432	2,453	2,457	2,467	2,479	2,499	2,516	2,532
Food and Other	175	179	183	187	191	194	198	202	207	211	215
Ending Stocks	315	325	335	339	345	347	350	354	359	364	369
Domestic Use	2,890	2,901	2,944	2,957	2,989	2,998	3,015	3,035	3,065	3,091	3,116
Net Trade	-2,490	-2,491	-2,527	-2,533	-2,562	-2,566	-2,581	-2,598	-2,624	-2,645	-2,666

Mexican Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	7,450	7,411	7,527	7,543	7,561	7,556	7,573	7,578	7,593	7,592	7,594
Yield	3.36	3.19	3.21	3.23	3.25	3.26	3.28	3.30	3.32	3.34	3.35
Production	25,000	23,657	24,163	24,351	24,545	24,663	24,857	25,011	25,196	25,329	25,473
Beginning Stocks	3,181	3,581	3,466	3,506	3,490	3,497	3,475	3,465	3,468	3,517	3,562
Domestic Supply	28,181	27,238	27,629	27,857	28,035	28,160	28,333	28,476	28,665	28,846	29,035
Feed Use	16,500	16,966	17,213	17,529	17,906	18,243	18,570	18,879	19,156	19,434	19,700
Food and Other	16,000	15,835	16,024	16,186	16,436	16,570	16,780	16,950	17,132	17,284	17,454
Ending Stocks	3,581	3,466	3,506	3,490	3,497	3,475	3,465	3,468	3,517	3,562	3,609
Domestic Use	36,081	36,267	36,743	37,205	37,838	38,288	38,815	39,298	39,805	40,280	40,763
Net Trade	-7,900	-9,029	-9,114	-9,349	-9,804	-10,128	-10,482	-10,822	-11,140	-11,434	-11,729
Sorghum											
Area Harvested	1,750	1,691	1,709	1,705	1,717	1,727	1,739	1,750	1,758	1,756	1,756
Yield	3.54	3.53	3.55	3.58	3.60	3.62	3.64	3.66	3.68	3.70	3.72
Production	6,200	5,974	6,076	6,096	6,174	6,246	6,329	6,403	6,472	6,500	6,535
Beginning Stocks	373	473	393	406	397	394	384	377	376	393	409
Domestic Supply	6,573	6,447	6,469	6,502	6,572	6,640	6,713	6,781	6,848	6,894	6,944
Feed Use	8,000	7,783	7,922	8,004	8,125	8,209	8,302	8,396	8,519	8,628	8,748
Food and Other	100	97	99	100	101	102	103	104	105	107	109
Ending Stocks	473	393	406	397	394	384	377	376	393	409	426
Domestic Use	8,573	8,274	8,427	8,501	8,620	8,695	8,781	8,876	9,018	9,144	9,283
Net Trade	-2,000	-1,827	-1,959	-1,999	-2,048	-2,054	-2,068	-2,095	-2,170	-2,251	-2,339
Barley											
Area Harvested	350	345	355	356	358	362	364	368	369	369	368
Yield	2.57	2.61	2.64	2.67	2.71	2.74	2.77	2.81	2.84	2.87	2.91
Production	900	899	936	951	970	992	1,010	1,032	1,049	1,060	1,070
Beginning Stocks	90	90	92	95	95	93	93	91	90	92	95
Domestic Supply	990	989	1,029	1,046	1,065	1,086	1,103	1,123	1,139	1,152	1,165
Feed Use	225	245	251	255	258	262	265	268	271	275	279
Food and Other	800	822	837	846	851	860	866	877	892	909	925
Ending Stocks	90	92	95	95	93	93	91	90	92	95	97
Domestic Use	1,115	1,159	1,183	1,196	1,202	1,214	1,222	1,235	1,256	1,279	1,301
Net Trade	-125	-170	-154	-150	-137	-129	-119	-113	-116	-127	-136

Nigerian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sorghum											
Area Harvested	7,400	7,339	7,556	7,528	7,412	7,377	7,391	7,487	7,570	7,608	7,616
Yield	1.49	1.51	1.53	1.55	1.57	1.59	1.61	1.63	1.65	1.67	1.69
Production	11,000	11,058	11,537	11,646	11,617	11,711	11,882	12,187	12,477	12,693	12,859
Beginning Stocks	200	200	175	185	198	203	202	198	194	195	196
Domestic Supply	11,200	11,258	11,712	11,831	11,815	11,915	12,083	12,385	12,670	12,888	13,056
Feed Use	150	134	137	142	144	143	142	140	140	141	141
Food and Other	10,800	10,899	11,340	11,441	11,418	11,520	11,694	12,001	12,285	12,501	12,668
Ending Stocks	200	175	185	198	203	202	198	194	195	196	196
Domestic Use	11,150	11,208	11,662	11,781	11,765	11,865	12,033	12,335	12,620	12,838	13,006
Net Trade	50	50	50	50	50	50	50	50	50	50	50

Other African Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	23,651	23,967	23,777	23,684	23,861	23,938	24,078	24,199	24,301	24,353	24,421
Yield	1.47	1.49	1.51	1.53	1.54	1.56	1.58	1.60	1.61	1.63	1.65
Production	34,831	35,717	35,853	36,129	36,818	37,358	38,001	38,616	39,207	39,720	40,259
Beginning Stocks	2,679	2,494	2,531	2,564	2,575	2,592	2,597	2,607	2,617	2,634	2,648
Domestic Supply	37,510	38,211	38,384	38,694	39,393	39,950	40,598	41,223	41,824	42,354	42,907
Feed Use	5,480	5,356	5,392	5,399	5,422	5,422	5,433	5,442	5,461	5,476	5,493
Food and Other	33,381	33,785	34,678	35,430	36,283	37,003	37,807	38,594	39,442	40,262	41,101
Ending Stocks	2,494	2,531	2,564	2,575	2,592	2,597	2,607	2,617	2,634	2,648	2,663
Domestic Use	41,355	41,673	42,634	43,405	44,297	45,022	45,847	46,653	47,537	48,386	49,257
Net Trade	-3,845	-3,462	-4,250	-4,711	-4,903	-5,072	-5,249	-5,431	-5,713	-6,032	-6,350
Barley											
Area Harvested	4,165	4,089	4,058	4,052	4,046	4,049	4,043	4,042	4,039	4,037	4,034
Yield	0.97	1.00	1.01	1.01	1.02	1.03	1.04	1.05	1.06	1.06	1.07
Production	4,020	4,075	4,079	4,108	4,136	4,173	4,201	4,235	4,266	4,299	4,330
Beginning Stocks	266	276	312	330	339	344	350	354	360	368	375
Domestic Supply	4,286	4,351	4,391	4,438	4,475	4,517	4,551	4,589	4,626	4,666	4,705
Feed Use	2,620	2,644	2,647	2,651	2,650	2,654	2,655	2,657	2,658	2,661	2,662
Food and Other	3,300	3,428	3,514	3,611	3,691	3,793	3,882	3,976	4,064	4,158	4,249
Ending Stocks	276	312	330	339	344	350	354	360	368	375	382
Domestic Use	6,196	6,384	6,491	6,601	6,686	6,797	6,891	6,993	7,090	7,193	7,293
Net Trade	-1,910	-2,033	-2,100	-2,164	-2,211	-2,279	-2,340	-2,403	-2,464	-2,527	-2,588

Other Asian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	1,975	2,040	2,068	2,065	2,068	2,063	2,066	2,064	2,063	2,059	2,057
(Metric Tons per Hectare)											
Yield	2.51	2.53	2.55	2.57	2.59	2.60	2.62	2.64	2.66	2.68	2.70
(Thousand Metric Tons)											
Production	4,960	5,162	5,270	5,302	5,346	5,373	5,419	5,451	5,486	5,514	5,547
Beginning Stocks	81	81	81	81	81	81	81	81	81	81	81
Domestic Supply	5,041	5,243	5,351	5,383	5,427	5,454	5,500	5,532	5,567	5,595	5,628
Feed Use	1,020	1,019	1,020	1,019	1,020	1,020	1,020	1,021	1,022	1,022	1,023
Food and Other	3,890	3,916	3,993	4,035	4,102	4,144	4,203	4,262	4,334	4,399	4,466
Ending Stocks	81	81	81	81	81	81	81	81	81	81	81
Domestic Use	4,991	5,016	5,093	5,135	5,203	5,244	5,304	5,363	5,436	5,502	5,570
Net Trade	50	227	257	248	224	209	196	169	131	93	58
Barley											
Area Harvested	983	1,031	1,008	1,013	1,015	1,023	1,022	1,025	1,024	1,027	1,027
(Metric Tons per Hectare)											
Yield	1.83	1.77	1.79	1.81	1.82	1.84	1.86	1.87	1.89	1.91	1.92
(Thousand Metric Tons)											
Production	1,802	1,826	1,802	1,829	1,850	1,883	1,897	1,920	1,937	1,958	1,977
Beginning Stocks	29	29	31	31	31	31	31	31	31	32	32
Domestic Supply	1,831	1,855	1,833	1,860	1,881	1,914	1,928	1,951	1,968	1,990	2,008
Feed Use	130	129	128	128	128	128	128	128	128	127	127
Food and Other	1,722	1,749	1,768	1,794	1,809	1,840	1,863	1,891	1,913	1,939	1,961
Ending Stocks	29	31	31	31	31	31	31	31	32	32	32
Domestic Use	1,881	1,909	1,928	1,953	1,968	1,999	2,022	2,050	2,072	2,098	2,120
Net Trade	-50	-54	-95	-93	-86	-85	-93	-99	-105	-108	-112

Other Eastern European Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	688	716	728	726	729	727	730	729	728	725	724
(Metric Tons per Hectare)											
Yield	5.31	4.89	4.93	4.96	5.00	5.03	5.07	5.10	5.14	5.17	5.21
(Thousand Metric Tons)											
Production	3,650	3,503	3,589	3,606	3,645	3,661	3,700	3,722	3,743	3,754	3,770
Beginning Stocks	279	404	439	450	449	452	450	451	454	460	465
Domestic Supply	3,929	3,907	4,028	4,056	4,094	4,113	4,150	4,173	4,197	4,214	4,236
Feed Use	3,275	3,280	3,408	3,487	3,578	3,630	3,684	3,734	3,760	3,766	3,766
Food and Other	475	476	481	481	486	485	488	491	496	500	504
Ending Stocks	404	439	450	449	452	450	451	454	460	465	471
Domestic Use	4,154	4,195	4,340	4,417	4,516	4,565	4,623	4,678	4,716	4,731	4,741
Net Trade	-225	-288	-312	-361	-422	-452	-473	-505	-519	-517	-506
Barley											
Area Harvested	135	131	126	125	125	126	126	126	126	126	126
(Metric Tons per Hectare)											
Yield	3.26	3.18	3.20	3.22	3.24	3.26	3.28	3.30	3.32	3.34	3.36
(Thousand Metric Tons)											
Production	440	418	402	401	404	409	412	416	419	421	423
Beginning Stocks	52	62	70	73	74	75	75	75	75	75	76
Domestic Supply	492	480	472	474	478	484	487	491	494	497	499
Feed Use	315	327	339	347	353	359	364	368	368	368	365
Food and Other	175	179	180	181	180	181	182	183	184	186	187
Ending Stocks	62	70	73	74	75	75	75	75	75	76	76
Domestic Use	552	576	592	602	608	615	620	626	628	629	629
Net Trade	-60	-96	-121	-128	-130	-131	-133	-135	-134	-133	-130

Countries included: Albania, Bosnia and Herzegovina, Croatia, Macedonia, Serbia, Montenegro.

Other CIS Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	915	919	924	925		(Thousand Hectares)					
					924	924	924	924	924	924	924
Yield	3.62	3.26	3.27	3.28		(Metric Tons per Hectare)					
					3.29	3.31	3.32	3.33	3.34	3.35	3.37
Production	3,315	2,996	3,021	3,035	3,045	3,055	3,066	3,077	3,089	3,099	3,109
Beginning Stocks	287	362	398	419	431	437	440	443	446	450	453
Domestic Supply	3,602	3,358	3,419	3,454	3,475	3,492	3,507	3,521	3,535	3,549	3,563
Feed Use	2,925	2,989	3,029	3,064	3,109	3,146	3,188	3,231	3,280	3,330	3,383
Food and Other	435	436	442	446	450	454	458	462	466	470	474
Ending Stocks	362	398	419	431	437	440	443	446	450	453	456
Domestic Use	3,722	3,824	3,890	3,941	3,997	4,040	4,089	4,139	4,196	4,253	4,312
Net Trade	-120	-466	-470	-487	-521	-548	-583	-618	-661	-704	-750
Barley											
Area Harvested	3,036	2,929	2,931	2,929	2,923	2,925	2,922	2,923	2,922	2,922	2,922
						(Thousand Hectares)					
Yield	1.70	1.71	1.73	1.74	1.75	1.77	1.78	1.80	1.81	1.82	1.84
Production	5,160	5,017	5,061	5,099	5,129	5,172	5,207	5,248	5,286	5,327	5,366
Beginning Stocks	1,093	1,293	1,341	1,358	1,367	1,371	1,374	1,376	1,379	1,382	1,384
Domestic Supply	6,253	6,310	6,402	6,456	6,496	6,542	6,581	6,624	6,665	6,708	6,750
Feed Use	3,349	3,423	3,449	3,475	3,490	3,507	3,521	3,538	3,557	3,578	3,598
Food and Other	1,151	1,161	1,173	1,182	1,190	1,198	1,205	1,213	1,221	1,228	1,235
Ending Stocks	1,293	1,341	1,358	1,367	1,371	1,374	1,376	1,379	1,382	1,384	1,386
Domestic Use	5,793	5,925	5,979	6,024	6,051	6,078	6,102	6,130	6,159	6,190	6,219
Net Trade	460	385	423	432	445	464	479	494	506	518	531

Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Turkmenistan, Uzbekistan.

Other Latin American Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	5,320	5,331	5,269	5,208	5,205	5,169	5,172	5,154	5,133	5,094	5,062
(Metric Tons per Hectare)											
Yield	2.62	2.64	2.67	2.69	2.72	2.74	2.77	2.79	2.82	2.84	2.87
(Thousand Metric Tons)											
Production	13,937	14,096	14,065	14,030	14,149	14,181	14,315	14,393	14,462	14,477	14,512
Beginning Stocks	4,233	3,258	3,166	3,200	3,217	3,251	3,267	3,292	3,322	3,362	3,398
Domestic Supply	18,170	17,354	17,231	17,230	17,365	17,431	17,583	17,685	17,784	17,839	17,911
Feed Use	18,635	18,342	18,455	18,465	18,552	18,560	18,620	18,682	18,773	18,841	18,913
Food and Other	6,862	6,847	7,023	7,129	7,286	7,393	7,535	7,679	7,844	7,996	8,150
Ending Stocks	3,258	3,166	3,200	3,217	3,251	3,267	3,292	3,322	3,362	3,398	3,434
Domestic Use	28,755	28,355	28,678	28,811	29,089	29,221	29,447	29,682	29,979	30,235	30,498
Net Trade	-10,585	-11,001	-11,447	-11,581	-11,723	-11,789	-11,864	-11,997	-12,195	-12,396	-12,587
Barley											
Area Harvested	425	421	400	394	392	391	388	386	384	381	379
(Metric Tons per Hectare)											
Yield	1.85	1.85	1.85	1.86	1.86	1.87	1.87	1.87	1.88	1.88	1.89
(Thousand Metric Tons)											
Production	785	779	741	733	730	730	726	724	720	717	714
Beginning Stocks	83	68	69	71	72	72	73	74	75	77	78
Domestic Supply	868	847	810	804	801	803	799	798	795	794	792
Feed Use	125	128	130	130	130	131	131	131	132	132	132
Food and Other	1,030	1,038	985	996	1,013	1,034	1,054	1,077	1,099	1,122	1,143
Ending Stocks	68	69	71	72	72	73	74	75	77	78	79
Domestic Use	1,223	1,236	1,185	1,198	1,215	1,238	1,260	1,284	1,308	1,332	1,355
Net Trade	-355	-389	-374	-394	-414	-436	-460	-486	-512	-538	-563

Other Middle Eastern Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	1,032	1,019	1,012	988		(Thousand Hectares)					
					978	971	970	967	964	959	955
Yield	6.44	6.02	6.05	6.09		(Metric Tons per Hectare)					
					6.13	6.17	6.21	6.25	6.28	6.32	6.36
Production	6,644	6,131	6,127	6,020		(Thousand Metric Tons)					
Beginning Stocks	3,433	3,289	3,265	3,321	5,995	5,990	6,022	6,039	6,057	6,064	6,077
Domestic Supply	10,077	9,420	9,392	9,342	3,358	3,383	3,396	3,411	3,426	3,444	3,460
Feed Use	12,328	12,245	12,430	12,519	12,594	12,617	12,662	12,704	12,761	12,808	12,856
Food and Other	1,875	1,928	1,974	2,011	2,052	2,087	2,123	2,160	2,197	2,230	2,264
Ending Stocks	3,289	3,265	3,321	3,358	3,383	3,396	3,411	3,426	3,444	3,460	3,476
Domestic Use	17,492	17,438	17,725	17,888	18,028	18,100	18,196	18,290	18,402	18,499	18,596
Net Trade	-7,415	-8,018	-8,333	-8,546	-8,676	-8,727	-8,778	-8,840	-8,918	-8,991	-9,058
Barley											
Area Harvested	5,630	7,197	7,212	7,195		(Thousand Hectares)					
					7,169	7,177	7,159	7,157	7,148	7,149	7,144
Yield	1.48	1.48	1.49	1.50		(Metric Tons per Hectare)					
					1.51	1.52	1.52	1.53	1.54	1.55	1.56
Production	8,310	10,681	10,763	10,795		(Thousand Metric Tons)					
Beginning Stocks	1,603	1,188	1,160	1,220	10,816	10,885	10,916	10,971	11,017	11,075	11,126
Domestic Supply	9,913	11,869	11,923	12,015	1,265	1,287	1,306	1,322	1,340	1,358	1,375
Feed Use	11,080	11,471	11,481	11,499	11,493	11,506	11,509	11,516	11,516	11,520	11,521
Food and Other	1,930	2,015	2,056	2,098	2,132	2,172	2,209	2,248	2,285	2,322	2,359
Ending Stocks	1,188	1,160	1,220	1,265	1,287	1,306	1,322	1,340	1,358	1,375	1,391
Domestic Use	14,198	14,646	14,756	14,862	14,912	14,985	15,040	15,104	15,159	15,218	15,270
Net Trade	-4,285	-2,776	-2,833	-2,847	-2,831	-2,812	-2,818	-2,811	-2,802	-2,785	-2,769

Pakistani Coarse Grain Supply and Utilization

Philippine Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	2,600	2,619	2,639	2,625	2,629	2,620	2,624	2,629	2,630	2,628	2,631
(Metric Tons per Hectare)											
Yield	2.50	2.52	2.55	2.57	2.59	2.62	2.64	2.66	2.69	2.71	2.73
(Thousand Metric Tons)											
Production	6,500	6,608	6,720	6,744	6,817	6,853	6,924	6,999	7,062	7,117	7,185
Beginning Stocks	692	292	287	298	299	306	307	310	314	323	330
Domestic Supply	7,192	6,900	7,006	7,042	7,115	7,159	7,231	7,309	7,376	7,440	7,515
Feed Use	5,300	5,627	5,792	5,895	5,972	6,045	6,114	6,194	6,296	6,386	6,471
Food and Other	1,700	1,686	1,726	1,746	1,791	1,827	1,860	1,897	1,936	1,967	2,000
Ending Stocks	292	287	298	299	306	307	310	314	323	330	337
Domestic Use	7,292	7,600	7,815	7,940	8,069	8,178	8,284	8,405	8,555	8,683	8,808
Net Trade	-100	-699	-809	-898	-953	-1,019	-1,052	-1,097	-1,178	-1,243	-1,293

Russian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	1,650	1,322	1,306	1,302	1,298	1,295	1,296	1,296	1,295	1,293	1,291
(Metric Tons per Hectare)											
Yield	4.12	3.61	3.63	3.66	3.68	3.70	3.72	3.74	3.77	3.79	3.81
(Thousand Metric Tons)											
Production	6,800	4,777	4,746	4,762	4,775	4,793	4,825	4,852	4,878	4,897	4,919
Beginning Stocks	167	1,267	1,323	1,331	1,337	1,340	1,340	1,341	1,342	1,345	1,346
Domestic Supply	6,967	6,044	6,068	6,093	6,112	6,133	6,165	6,193	6,220	6,241	6,265
Feed Use	4,800	4,257	4,231	4,240	4,298	4,330	4,368	4,412	4,468	4,525	4,586
Food and Other	700	665	665	667	667	664	662	661	660	658	657
Ending Stocks	1,267	1,323	1,331	1,337	1,340	1,340	1,341	1,342	1,345	1,346	1,348
Domestic Use	6,767	6,245	6,226	6,245	6,305	6,335	6,371	6,415	6,472	6,530	6,592
Net Trade	200	-202	-158	-152	-193	-202	-206	-222	-252	-289	-327
Barley											
Area Harvested	9,700	10,027	9,907	9,938	9,915	9,941	9,942	9,956	9,965	9,986	9,994
(Metric Tons per Hectare)											
Yield	2.32	1.93	1.94	1.95	1.96	1.97	1.98	1.99	2.00	2.01	2.02
(Thousand Metric Tons)											
Production	22,500	19,340	19,206	19,365	19,418	19,569	19,669	19,797	19,913	20,055	20,171
Beginning Stocks	956	3,856	4,016	4,058	4,132	4,144	4,151	4,152	4,161	4,175	4,188
Domestic Supply	23,456	23,196	23,222	23,423	23,550	23,713	23,820	23,949	24,074	24,230	24,360
Feed Use	12,200	12,355	12,303	12,352	12,492	12,598	12,694	12,823	12,966	13,125	13,283
Food and Other	5,100	5,177	5,180	5,193	5,183	5,178	5,165	5,156	5,144	5,134	5,119
Ending Stocks	3,856	4,016	4,058	4,132	4,144	4,151	4,152	4,161	4,175	4,188	4,198
Domestic Use	21,156	21,548	21,541	21,677	21,819	21,928	22,012	22,140	22,285	22,448	22,599
Net Trade	2,300	1,648	1,681	1,746	1,731	1,785	1,808	1,808	1,789	1,782	1,760

Saudi Arabian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Barley											
Area Harvested	0	0	0	0	0	0	0	0	0	0	0
(Metric Tons per Hectare)											
Yield	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(Thousand Metric Tons)											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	2,548	2,938	2,920	2,963	2,972	2,977	2,983	2,984	2,990	2,996	3,004
Domestic Supply	2,548	2,938	2,920	2,963	2,972	2,977	2,983	2,984	2,990	2,996	3,004
Feed Use	6,900	7,205	7,316	7,410	7,482	7,578	7,656	7,743	7,820	7,906	7,985
Food and Other	10	14	17	18	18	19	19	20	20	21	22
Ending Stocks	2,938	2,920	2,963	2,972	2,977	2,983	2,984	2,990	2,996	3,004	3,011
Domestic Use	9,848	10,138	10,296	10,399	10,477	10,580	10,658	10,753	10,836	10,931	11,017
Net Trade	-7,300	-7,200	-7,377	-7,436	-7,506	-7,603	-7,676	-7,769	-7,846	-7,935	-8,013

South African Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	3,000	3,287	3,413	3,368	3,386	3,365	3,381	3,376	3,364	3,333	3,312
Yield	3.50	3.77	3.78	3.80	3.81	3.83	3.84	3.86	3.87	3.89	3.91
Production	10,500	12,385	12,912	12,791	12,910	12,884	12,995	13,029	13,033	12,963	12,933
Beginning Stocks	3,325	1,925	1,785	1,852	1,839	1,848	1,837	1,837	1,853	1,883	1,906
Domestic Supply	13,825	14,310	14,697	14,644	14,749	14,731	14,833	14,866	14,886	14,846	14,839
Feed Use	5,000	5,042	5,123	5,194	5,273	5,300	5,322	5,328	5,342	5,351	5,364
Food and Other	4,600	4,620	4,711	4,680	4,678	4,642	4,623	4,628	4,666	4,692	4,719
Ending Stocks	1,925	1,785	1,852	1,839	1,848	1,837	1,837	1,853	1,883	1,906	1,927
Domestic Use	11,525	11,447	11,686	11,712	11,799	11,780	11,782	11,808	11,891	11,949	12,009
Net Trade	2,300	2,863	3,010	2,931	2,950	2,951	3,051	3,058	2,994	2,897	2,830
Sorghum											
Area Harvested	90	87	87	87	88	88	88	88	88	88	89
Yield	2.56	2.57	2.59	2.60	2.62	2.63	2.65	2.66	2.68	2.69	2.71
Production	230	223	226	227	229	230	232	234	236	238	240
Beginning Stocks	47	47	47	47	47	47	47	47	47	47	47
Domestic Supply	277	270	273	274	276	277	279	281	283	285	287
Feed Use	25	19	20	20	20	20	20	20	21	21	21
Food and Other	180	178	181	181	181	181	181	182	183	185	186
Ending Stocks	47	47	47	47	47	47	47	47	47	47	47
Domestic Use	252	243	248	248	248	248	248	249	251	252	254
Net Trade	25	26	24	27	28	30	32	32	32	32	33
Barley											
Area Harvested	68	68	65	64	65	65	65	65	65	65	65
Yield	2.79	2.81	2.82	2.84	2.86	2.87	2.89	2.90	2.92	2.93	2.95
Production	190	190	182	183	184	187	187	189	190	192	193
Beginning Stocks	98	103	104	105	105	104	104	104	105	105	105
Domestic Supply	288	293	286	288	289	291	292	294	295	297	298
Feed Use	10	12	13	13	12	13	12	12	12	12	12
Food and Other	275	275	276	275	273	272	271	270	270	271	271
Ending Stocks	103	104	105	105	104	104	104	105	105	105	105
Domestic Use	388	392	393	392	390	389	387	387	387	388	388
Net Trade	-100	-99	-107	-104	-101	-98	-95	-94	-93	-91	-90

South Korean Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	17	17	17	17	17	17	17	17	17	17	17
Yield	4.71	4.76	4.81	4.86	4.91	4.96	5.02	5.07	5.12	5.17	5.22
Production	80	81	82	83	84	84	85	86	87	88	89
Beginning Stocks	2,110	2,090	2,087	2,148	2,168	2,175	2,175	2,175	2,179	2,186	2,193
Domestic Supply	2,190	2,171	2,169	2,231	2,251	2,260	2,260	2,262	2,266	2,274	2,282
Feed Use	5,400	5,219	5,159	5,313	5,352	5,420	5,519	5,566	5,554	5,506	5,415
Food and Other	1,900	1,783	1,749	1,743	1,748	1,745	1,749	1,751	1,748	1,745	1,742
Ending Stocks	2,090	2,087	2,148	2,168	2,175	2,175	2,175	2,179	2,186	2,193	2,201
Domestic Use	9,390	9,089	9,055	9,224	9,275	9,340	9,444	9,495	9,487	9,443	9,358
Net Trade	-7,200	-6,918	-6,886	-6,993	-7,024	-7,080	-7,183	-7,234	-7,222	-7,169	-7,076

Taiwanese Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	30	29	29	29	29	28	28	28	28	28	27
Yield	5.00	5.04	5.07	5.11	5.14	5.18	5.21	5.25	5.29	5.32	5.36
Production	150	144	148	147	148	146	147	148	148	147	147
Beginning Stocks	632	682	670	722	754	822	849	882	919	974	1,016
Domestic Supply	782	826	818	869	901	968	996	1,030	1,067	1,121	1,164
Feed Use	3,900	3,689	3,525	3,375	3,371	3,367	3,407	3,458	3,520	3,552	3,554
Food and Other	200	199	202	203	208	208	210	212	215	217	219
Ending Stocks	682	670	722	754	822	849	882	919	974	1,016	1,057
Domestic Use	4,782	4,557	4,449	4,332	4,401	4,424	4,498	4,589	4,708	4,786	4,830
Net Trade	-4,000	-3,731	-3,632	-3,464	-3,500	-3,455	-3,502	-3,559	-3,641	-3,665	-3,667
Barley											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Feed Use	95	97	93	89	87	88	88	89	90	90	90
Food and Other	30	30	31	32	32	33	34	35	35	36	36
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	125	128	124	121	120	121	122	124	125	126	126
Net Trade	-125	-128	-124	-121	-120	-121	-122	-124	-125	-126	-126

Thai Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	1,020	1,005	1,016	1,024	1,035	1,038	1,038	1,042	1,043	1,044	1,048
(Thousand Hectares)											
Yield	4.02	4.04	4.09	4.15	4.21	4.26	4.32	4.37	4.43	4.49	4.54
(Metric Tons per Hectare)											
Production	4,100	4,060	4,160	4,251	4,355	4,423	4,482	4,557	4,622	4,684	4,761
Beginning Stocks	148	348	376	384	385	386	386	389	393	399	404
Domestic Supply	4,248	4,408	4,536	4,635	4,740	4,809	4,869	4,947	5,016	5,083	5,165
(Thousand Metric Tons)											
Feed Use	3,900	3,895	3,954	4,037	4,126	4,203	4,277	4,343	4,412	4,477	4,537
Food and Other	100	96	95	95	96	96	96	97	97	97	98
Ending Stocks	348	376	384	385	386	386	389	393	399	404	409
Domestic Use	4,348	4,366	4,433	4,516	4,607	4,685	4,762	4,834	4,908	4,979	5,045
Net Trade	-100	42	103	118	132	123	106	113	107	105	121

Ukrainian Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	2,200	2,127	2,200	2,216	2,232	2,238	2,253	2,260	2,267	2,268	2,270
(Thousand Hectares)											
Yield	4.55	4.26	4.29	4.31	4.34	4.37	4.40	4.42	4.45	4.48	4.50
(Metric Tons per Hectare)											
Production	10,000	9,061	9,431	9,561	9,692	9,778	9,901	9,996	10,086	10,152	10,221
Beginning Stocks	715	1,340	1,366	1,421	1,458	1,506	1,543	1,579	1,613	1,645	1,672
Domestic Supply	10,715	10,401	10,797	10,982	11,150	11,283	11,443	11,574	11,699	11,797	11,893
Feed Use	5,200	4,756	4,349	4,188	4,075	4,031	4,038	4,062	4,113	4,170	4,242
Food and Other	700	697	687	681	681	677	676	675	676	677	679
Ending Stocks	1,340	1,366	1,421	1,458	1,506	1,543	1,579	1,613	1,645	1,672	1,693
Domestic Use	7,240	6,819	6,457	6,327	6,261	6,251	6,293	6,350	6,434	6,519	6,614
Net Trade	3,475	3,582	4,340	4,655	4,889	5,032	5,150	5,224	5,265	5,278	5,279
Barley											
Area Harvested	4,100	4,447	4,341	4,331	4,298	4,285	4,257	4,242	4,228	4,223	4,217
(Thousand Hectares)											
Yield	3.05	2.27	2.28	2.29	2.30	2.31	2.32	2.33	2.34	2.35	2.35
(Metric Tons per Hectare)											
Production	12,500	10,100	9,898	9,916	9,879	9,891	9,864	9,869	9,876	9,904	9,930
Beginning Stocks	665	1,990	2,121	2,210	2,274	2,336	2,393	2,443	2,488	2,525	2,555
Domestic Supply	13,165	12,090	12,019	12,126	12,154	12,226	12,257	12,312	12,363	12,429	12,486
Feed Use	4,000	3,544	3,270	3,206	3,164	3,188	3,236	3,293	3,358	3,428	3,501
Food and Other	1,700	1,614	1,612	1,626	1,633	1,645	1,650	1,655	1,655	1,654	1,652
Ending Stocks	1,990	2,121	2,210	2,274	2,336	2,393	2,443	2,488	2,525	2,555	2,578
Domestic Use	7,690	7,278	7,091	7,106	7,132	7,226	7,329	7,435	7,538	7,638	7,730
Net Trade	5,475	4,812	4,928	5,020	5,022	5,000	4,928	4,876	4,826	4,791	4,755

Vietnamese Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	1,200	1,155	1,145	1,134	1,128	1,129	1,128	1,126	1,124	1,120	1,117
(Thousand Hectares)											
Yield	4.17	4.12	4.15	4.17	4.20	4.22	4.25	4.27	4.30	4.32	4.35
(Metric Tons per Hectare)											
Production	5,000	4,760	4,749	4,731	4,736	4,765	4,791	4,812	4,832	4,841	4,859
Beginning Stocks	398	398	398	398	398	398	398	398	398	398	398
Domestic Supply	5,398	5,158	5,147	5,129	5,134	5,163	5,189	5,210	5,230	5,239	5,257
Feed Use											
Food and Other	1,200	1,223	1,246	1,264	1,278	1,291	1,306	1,323	1,340	1,356	1,373
Ending Stocks	398	398	398	398	398	398	398	398	398	398	398
Domestic Use	5,898	5,964	6,038	6,119	6,225	6,330	6,456	6,591	6,746	6,899	7,051
Net Trade	-500	-806	-891	-989	-1,091	-1,166	-1,267	-1,381	-1,516	-1,660	-1,793

Rest-of-World Coarse Grain Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Corn											
Area Harvested	2,701	2,771	2,814	2,786	2,806	2,788	2,810	2,805	2,797	2,765	2,743
(Metric Tons per Hectare)											
Yield	2.76	2.79	2.82	2.85	2.88	2.91	2.94	2.97	3.00	3.02	3.05
(Thousand Metric Tons)											
Production	7,462	7,735	7,939	7,938	8,078	8,109	8,254	8,320	8,376	8,363	8,375
Beginning Stocks	445	1,092	1,103	1,109	1,108	1,111	1,110	1,112	1,115	1,119	1,123
Domestic Supply	7,907	8,827	9,042	9,047	9,186	9,219	9,364	9,432	9,490	9,482	9,498
Feed Use	4,575	4,810	4,865	4,867	4,916	4,906	4,920	4,951	4,988	4,999	5,026
Food and Other	1,390	1,410	1,433	1,444	1,463	1,475	1,491	1,509	1,531	1,551	1,571
Ending Stocks	1,092	1,103	1,109	1,108	1,111	1,110	1,112	1,115	1,119	1,123	1,127
Domestic Use	7,057	7,323	7,407	7,419	7,490	7,491	7,523	7,574	7,638	7,673	7,725
Net Trade	850	1,503	1,636	1,628	1,696	1,728	1,841	1,858	1,852	1,809	1,774
Sorghum											
Area Harvested	18,542	18,179	18,507	18,483	18,515	18,516	18,543	18,540	18,537	18,525	18,527
(Metric Tons per Hectare)											
Yield	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26
(Thousand Metric Tons)											
Production	21,419	21,181	21,749	21,905	22,128	22,315	22,533	22,715	22,896	23,067	23,254
Beginning Stocks	1,746	1,477	1,494	1,505	1,503	1,507	1,506	1,509	1,514	1,523	1,529
Domestic Supply	23,165	22,658	23,243	23,410	23,631	23,822	24,038	24,224	24,411	24,589	24,783
Feed Use	5,959	5,594	5,597	5,587	5,590	5,580	5,585	5,583	5,582	5,573	5,571
Food and Other	16,554	16,653	16,842	17,025	17,207	17,400	17,601	17,799	17,984	18,161	18,342
Ending Stocks	1,477	1,494	1,505	1,503	1,507	1,506	1,509	1,514	1,523	1,529	1,536
Domestic Use	23,990	23,741	23,944	24,115	24,304	24,486	24,694	24,897	25,088	25,263	25,449
Net Trade	-825	-1,083	-701	-705	-672	-664	-656	-673	-678	-674	-666
Barley											
Area Harvested	357	348	339	339	340	341	340	341	339	338	337
(Metric Tons per Hectare)											
Yield	4.17	4.19	4.21	4.23	4.26	4.28	4.30	4.33	4.35	4.37	4.39
(Thousand Metric Tons)											
Production	1,487	1,457	1,429	1,436	1,445	1,461	1,464	1,473	1,475	1,479	1,480
Beginning Stocks	246	233	264	269	268	268	269	270	274	278	283
Domestic Supply	1,733	1,690	1,693	1,705	1,714	1,728	1,734	1,744	1,749	1,757	1,763
Feed Use	1,411	1,437	1,431	1,432	1,423	1,429	1,426	1,429	1,427	1,428	1,425
Food and Other	309	314	317	320	322	325	328	331	334	337	340
Ending Stocks	233	264	269	268	268	269	270	274	278	283	287
Domestic Use	1,953	2,015	2,017	2,020	2,012	2,023	2,024	2,034	2,039	2,048	2,052
Net Trade	-220	-325	-324	-316	-299	-295	-291	-290	-290	-291	-290

Per Capita Grain Consumption of Selected Countries

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Algeria							(Kilograms)				
Corn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Barley	4.44	4.42	4.44	4.45	4.46	4.48	4.50	4.53	4.57	4.60	4.63
Argentina											
Corn	46.93	46.13	46.40	46.53	46.97	47.01	47.25	47.57	48.05	48.33	48.65
Barley	9.88	9.82	9.78	9.78	9.77	9.78	9.77	9.81	9.84	9.85	9.83
Sorghum	4.94	4.99	4.98	4.94	4.91	4.86	4.81	4.78	4.74	4.69	4.65
Australia											
Corn	5.95	5.88	5.83	5.88	5.96	6.02	6.06	6.10	6.16	6.22	6.27
Barley	45.22	44.96	44.77	44.76	44.83	45.14	45.29	45.47	45.54	45.57	45.55
Sorghum	0.24	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Brazil											
Corn	38.20	35.00	34.95	34.66	34.67	34.54	34.51	34.50	34.56	34.59	34.64
Barley	2.44	2.42	2.40	2.36	2.34	2.34	2.33	2.33	2.33	2.34	2.33
Canada											
Corn	120.44	130.73	135.76	138.32	138.80	138.92	139.00	139.34	140.44	142.31	144.14
Barley	42.15	41.29	41.96	42.47	42.44	42.49	42.15	41.93	41.87	42.11	42.11
China											
Corn	35.34	35.96	36.21	36.41	36.56	36.69	36.81	36.90	36.99	37.02	37.08
Barley	2.93	3.00	3.04	3.06	3.09	3.12	3.14	3.16	3.18	3.21	3.22
Egypt											
Corn	28.15	27.52	27.79	27.54	27.62	27.41	27.44	27.48	27.70	27.89	28.13
European Union											
Corn	28.54	27.45	27.73	27.96	28.24	28.46	28.77	29.08	29.42	29.75	30.06
Barley	34.66	36.91	37.23	37.61	37.92	38.18	38.53	38.90	39.28	39.67	40.02
India											
Corn	9.15	8.91	8.94	8.94	8.98	8.99	9.01	9.02	9.04	9.04	9.05
Sorghum	4.64	5.10	5.12	5.12	5.08	5.05	5.01	4.98	4.95	4.94	4.93
Indonesia											
Corn	16.84	16.53	16.58	16.58	16.58	16.58	16.52	16.52	16.53	16.50	16.48
Israel											
Corn	14.06	13.28	13.48	13.43	13.69	13.58	13.54	13.54	13.65	13.73	13.84
Barley	1.41	1.42	1.42	1.42	1.42	1.42	1.41	1.41	1.41	1.41	1.41
Sorghum	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60
Japan											
Corn	37.71	38.24	38.05	38.00	38.16	37.89	37.86	37.85	37.94	38.01	38.13
Barley	2.36	2.37	2.36	2.37	2.36	2.37	2.37	2.37	2.38	2.38	2.38
Sorghum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Malaysia											
Corn	6.92	6.95	7.01	7.01	7.05	7.06	7.08	7.11	7.15	7.18	7.22
Mexico											
Corn	145.51	142.39	142.48	142.32	142.95	142.58	142.86	142.81	142.88	142.70	142.70
Barley	7.28	7.39	7.44	7.44	7.40	7.40	7.38	7.39	7.44	7.51	7.56
Sorghum	0.91	0.88	0.88	0.88	0.88	0.88	0.87	0.87	0.88	0.88	0.89
Nigeria											
Sorghum	73.84	73.04	74.50	73.71	72.17	71.45	71.20	71.75	72.14	72.13	71.84

Per Capita Grain Consumption of Selected Countries (continued)

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Other Africa											
Corn	41.29	40.79	40.88	40.76	40.75	40.58	40.50	40.39	40.35	40.28	40.22
Barley	3.71	3.76	3.77	3.78	3.78	3.79	3.79	3.80	3.80	3.80	3.80
Other Asia											
Corn	11.22	11.10	11.13	11.06	11.07	11.01	10.99	10.98	11.00	11.00	11.01
Barley	0.84	0.84	0.84	0.84	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Other Eastern Europe ‡											
Corn	18.55	18.57	18.74	18.73	18.88	18.85	18.94	19.04	19.23	19.38	19.56
Barley	6.84	6.98	7.02	7.03	7.02	7.03	7.05	7.10	7.15	7.20	7.25
Other CIS †											
Corn	4.82	4.80	4.83	4.84	4.86	4.86	4.86	4.87	4.88	4.89	4.90
Barley	12.76	12.78	12.82	12.84	12.83	12.82	12.81	12.80	12.79	12.78	12.77
Other Latin America											
Corn	29.50	29.03	29.37	29.42	29.67	29.72	29.90	30.09	30.36	30.57	30.79
Barley	4.43	4.40	4.12	4.11	4.12	4.16	4.18	4.22	4.25	4.29	4.32
Other Middle East											
Corn	7.13	7.21	7.26	7.27	7.30	7.30	7.31	7.32	7.34	7.34	7.34
Barley	8.22	8.44	8.46	8.50	8.49	8.52	8.52	8.54	8.54	8.55	8.56
Pakistan											
Corn	8.68	8.50	8.54	8.53	8.58	8.58	8.60	8.63	8.68	8.70	8.73
Barley	1.53	1.48	1.41	1.38	1.36	1.35	1.33	1.31	1.30	1.28	1.26
Sorghum	0.41	0.37	0.37	0.37	0.37	0.38	0.38	0.39	0.39	0.39	0.39
Philippines											
Corn	17.70	17.21	17.27	17.14	17.26	17.28	17.27	17.31	17.36	17.33	17.33
Russia											
Corn	4.98	4.75	4.77	4.81	4.83	4.83	4.84	4.86	4.88	4.89	4.91
Barley	36.25	36.97	37.16	37.43	37.54	37.68	37.78	37.91	38.02	38.16	38.26
Saudi Arabia											
Barley	0.36	0.48	0.58	0.59	0.60	0.61	0.61	0.62	0.63	0.65	0.66
South Africa											
Corn	94.30	94.19	95.92	95.49	95.85	95.51	95.56	95.84	96.52	96.96	97.42
Barley	5.64	5.61	5.61	5.61	5.60	5.60	5.60	5.60	5.59	5.59	5.59
Sorghum	3.69	3.62	3.69	3.69	3.71	3.71	3.73	3.76	3.79	3.82	3.85
South Korea											
Corn	39.27	36.75	35.95	35.75	35.78	35.64	35.67	35.66	35.53	35.43	35.34
Taiwan											
Corn	8.73	8.64	8.79	8.82	9.00	9.00	9.05	9.11	9.25	9.32	9.40
Barley	1.31	1.32	1.35	1.37	1.41	1.44	1.46	1.49	1.52	1.54	1.56
Thailand											
Corn	1.53	1.45	1.44	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
Ukraine											
Corn	15.22	15.24	15.12	15.09	15.18	15.20	15.27	15.34	15.47	15.60	15.74
Barley	36.96	35.31	35.49	36.02	36.40	36.90	37.26	37.60	37.84	38.09	38.27
United States											
Corn	407.57	446.14	465.00	486.73	490.16	502.88	514.98	525.72	523.21	517.99	512.86
Barley	11.46	11.83	11.80	11.71	11.63	11.54	11.44	11.32	11.22	11.11	11.00
Sorghum	5.88	6.32	6.72	7.09	7.40	7.74	8.11	8.42	8.65	8.91	9.19
Vietnam											
Corn	13.93	14.07	14.19	14.26	14.27	14.29	14.32	14.36	14.41	14.45	14.50

‡ Countries included: Albania, Bosnia and Herzegovina, Croatia, Macedonia, Serbia, Montenegro.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Turkmenistan, Uzbekistan.

WORLD OILSEEDS AND PRODUCTS

World Soybeans and Soybean Products

The world soybean price decreases by 21% in 2008/09 from the high prices of last year, driven by a supply expansion and weaker world demand. It continues to decline by 11% over the next season because of strong supplies and lower meal values. A slowdown in production expansion in South America and the U.S. and strengthening soybean meal demand due to the economic recovery stabilize the price for the remainder of the projection period. However, the soybean price is not expected to return to its historical levels for the remainder of the decade.

Because of weaker competition from corn in 2008/09, U.S. soybean production increased by 11% despite relatively weak yields. The increase in U.S. production pulled the world soybean output up by 5%, counteracting the sharp declines in production in Brazil and Paraguay. World production is expected to increase again by 5% in 2009/10 as yields return to trend levels in the U.S. and the main South American producing countries. Encouraged by relatively strong real prices, Brazil's soybean area expansion is expected to post an average growth of 2.3% annually throughout the decade. However, the U.S. remains the leading producer over the projection period. World production reaches 295 mmt at the end of the outlook period and is concentrated in Argentina, Brazil, and the U.S. By 2018/19, the U.S. holds a 32% share while Brazil and Argentina contribute 32% and 22% of production, respectively.

Declining crop area, which is the result of falling real domestic prices and expanding urban uses, leads to almost stagnant soybean production in China. Meanwhile, robust economic growth encourages domestic consumption to increase by 42% over the baseline period. Policies favoring oilseed imports and domestic crush make China the world's leading soybean importer. China expands its imports to 56 mmt, accounting for 59% of total world imports over the next 10 years. This strong demand for soybeans becomes a focus of attention for major exporting countries. Brazil and the U.S. dominate the soybean net exports market. Brazil surpasses the U.S. to become the largest soybean net exporter in 2014/15, and the difference increases by the end of the period. Brazil's export share reaches 44% by the end of the decade while the U.S. share of world soybean net exports is projected to decline to 32% in 2018/19. Soybean imports by the EU decline over time, as the block shifts its demand toward meal.

The price of soybean meal also declines sharply during 2008/09 because of weak demand. Meal loses 18% of its value when compared to the previous season. Prices are expected to decline through the middle of the outlook period as production outpaces demand from livestock sectors around the world. Strengthening feed demand reverses the trend by the end of the projection period. China increases its consumption by 4.2% annually because of strong expansion in its livestock sector. U.S. domestic consumption expands by 17% over the next decade. The volume of net exports in the soybean meal market increases by 31% throughout the baseline. Argentina, the leading soybean meal net exporter, ships 98% of its production to the world market because of its differential export tax and low domestic demand. Argentina exports 36 mmt by 2018/19 and its market share grows to 52%. The EU remains by far the top net importer, accounting for 37% of world net imports.

In line with other commodities, the price of soybean oil declines by 35% in 2008/09. However, driven by strong demand for food and industrial uses, the soybean oil price starts to recover next season, before the turnaround of other products in the complex. Because of its income and population growth, China became the largest soybean oil consumer in 2006/07 and continues to increase its share, accounting for 33% by 2018/19. Because of their biodiesel mandates, Argentina and Brazil are expected to increase soybean oil industrial use by 51% and 74%, respectively, over the projection period. Exports are dominated by a few countries, but importers are diverse. Despite the domestic biodiesel mandate, Argentina still dominates world soybean oil exports, satisfying 62% of the world market. Brazil and the U.S. together account for 36% of world soybean oil net exports by 2018/19. China and India's combined share of net imports is 46% of the world market.

Soybean Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Argentina	11,865	13,609	13,272	12,893	12,632	12,482	12,521	12,658	12,848	13,079	13,346
Brazil	25,200	23,220	24,773	26,401	28,509	30,759	33,103	35,489	37,794	40,009	42,214
Canada	1,480	1,433	1,397	1,417	1,427	1,444	1,457	1,448	1,419	1,409	1,403
India	5	5	5	5	5	5	5	5	5	5	5
Other CIS †	-300	-312	-299	-293	-287	-281	-273	-264	-254	-243	-230
Paraguay	3,985	4,991	5,082	5,204	5,472	5,838	6,235	6,644	7,075	7,536	8,008
United States	29,701	31,578	31,873	32,314	32,315	32,256	31,900	31,572	31,381	31,219	30,987
Total Net Exports *	72,236	74,836	76,402	78,234	80,359	82,785	85,221	87,816	90,521	93,257	95,963
Net Importers											
China	35,550	37,290	39,375	41,346	43,266	45,327	47,408	49,549	51,789	54,081	56,379
European Union	14,120	14,824	14,038	13,686	13,562	13,526	13,508	13,566	13,607	13,630	13,631
Japan	4,000	3,932	3,830	3,706	3,666	3,655	3,644	3,640	3,637	3,632	3,620
Mexico	3,585	3,464	3,482	3,522	3,550	3,586	3,614	3,618	3,619	3,617	3,616
South Korea	1,260	1,272	1,274	1,274	1,275	1,280	1,281	1,287	1,299	1,311	1,335
Taiwan	2,350	2,368	2,383	2,402	2,423	2,447	2,471	2,497	2,521	2,546	2,571
Rest of World	9,820	10,124	10,469	10,754	11,081	11,433	11,773	12,144	12,545	12,946	13,330
Residual	1,251	1,251	1,251	1,251	1,251	1,251	1,251	1,251	1,251	1,251	1,251
Total Net Imports	72,236	74,836	76,402	78,234	80,359	82,785	85,221	87,816	90,521	93,257	95,963
Prices											
(U.S. Dollars per Metric Ton)											
Illinois Processor	368	346	348	358	366	375	383	389	391	392	394
CIF Rotterdam	434	385	394	413	424	435	444	448	449	450	451

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

Soybean Meal Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Argentina	27,368	28,815	30,369	31,587	32,520	33,340	33,985	34,579	35,177	35,718	36,257
Brazil	12,245	13,373	13,781	13,493	13,394	13,337	13,337	13,319	13,280	13,241	13,190
China	400	453	442	467	356	315	285	344	396	477	515
India	4,798	5,016	5,274	5,507	5,715	5,871	6,015	6,150	6,277	6,403	6,522
Paraguay	1,079	1,172	1,191	1,219	1,263	1,310	1,354	1,401	1,452	1,501	1,549
United States	7,470	7,588	8,044	8,495	8,964	9,407	9,836	10,272	10,783	11,309	11,881
Total Net Exports *	53,360	56,417	59,101	60,768	62,211	63,580	64,812	66,065	67,365	68,649	69,914
Net Importers											
Canada	1,360	1,627	1,759	1,809	1,824	1,801	1,773	1,773	1,810	1,820	1,831
European Union	22,450	23,755	24,759	24,959	25,144	25,299	25,372	25,421	25,522	25,647	25,781
Japan	1,760	1,917	2,073	2,188	2,260	2,305	2,321	2,331	2,334	2,345	2,372
Mexico	1,591	1,819	1,792	1,797	1,815	1,824	1,842	1,890	1,933	1,978	2,016
Other CIS †	1,072	1,128	1,149	1,156	1,156	1,151	1,145	1,141	1,138	1,136	1,136
South Korea	1,850	2,262	2,201	2,186	2,196	2,215	2,234	2,244	2,253	2,253	2,255
Taiwan	3	116	164	209	220	233	240	251	259	268	275
Rest of World	22,658	23,178	24,588	25,847	26,980	28,136	29,269	30,396	31,501	32,585	33,633
Residual	616	616	616	616	616	616	616	616	616	616	616
Total Net Imports	53,360	56,417	59,101	60,768	62,211	63,580	64,812	66,065	67,365	68,649	69,914
Prices											
(U.S. Dollars per Metric Ton)											
FOB Decatur 48%	328	294	282	278	280	285	290	293	292	291	290
CIF Rotterdam	387	348	334	329	331	337	343	347	346	344	344

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

Soybean Oil Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Argentina	5,650	5,501	5,883	6,125	6,313	6,501	6,658	6,817	6,989	7,149	7,312
Brazil	2,090	2,058	2,148	2,191	2,173	2,191	2,211	2,251	2,317	2,384	2,446
Paraguay	251	249	205	178	353	226	281	297	299	313	315
United States	771	695	632	613	714	965	1,124	1,300	1,485	1,681	1,915
Total Net Exports *	8,762	8,503	8,868	9,106	9,553	9,883	10,275	10,665	11,091	11,527	11,988
Net Importers											
Canada	57	67	73	70	71	65	61	60	62	61	60
China	2,300	2,312	2,390	2,519	2,771	2,963	3,171	3,390	3,632	3,880	4,133
European Union	370	493	682	784	828	852	869	864	870	880	895
India	640	322	433	492	591	695	816	943	1,076	1,208	1,346
Japan	45	72	94	102	106	105	105	104	104	102	102
Mexico	225	259	247	228	229	226	230	245	260	276	293
Other CIS †	20	65	59	51	45	38	32	25	19	12	5
South Korea	305	368	367	360	366	369	376	381	385	390	397
Taiwan	52	58	47	45	49	51	56	62	63	65	68
Rest of World	4,410	4,150	4,137	4,116	4,160	4,181	4,221	4,253	4,283	4,315	4,350
Residual	338	338	338	338	338	338	338	338	338	338	338
Total Net Imports	8,762	8,503	8,868	9,106	9,553	9,883	10,275	10,665	11,091	11,527	11,988
Prices											
(U.S. Dollars per Metric Ton)											
FOB Decatur	778	801	873	946	978	1,009	1,030	1,052	1,076	1,097	1,118
FOB Rotterdam	856	881	959	1,038	1,072	1,105	1,128	1,151	1,177	1,200	1,222

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

World Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	97,785	98,896	100,214	101,622	102,969	104,307	105,505	106,751	108,068	109,316	110,506
(Thousand Hectares)											
Production	232,792	243,403	248,725	254,555	260,321	266,213	271,762	277,594	283,749	289,787	295,611
Beginning Stocks	53,100	53,530	55,489	55,601	55,479	55,501	55,507	55,518	55,620	55,851	56,099
Domestic Supply	285,892	296,933	304,214	310,156	315,801	321,714	327,268	333,112	339,369	345,638	351,710
Crush	200,707	208,948	215,648	221,490	226,873	232,596	237,951	243,437	249,142	254,850	260,450
Food Use	14,481	14,824	15,010	15,109	15,230	15,320	15,402	15,506	15,635	15,754	15,855
Other Use	15,923	16,420	16,704	16,826	16,946	17,040	17,147	17,298	17,489	17,684	17,856
Residual	1,251	1,251	1,251	1,251	1,251	1,251	1,251	1,251	1,251	1,251	1,251
Ending Stocks	53,530	55,489	55,601	55,479	55,501	55,507	55,518	55,620	55,851	56,099	56,298
Domestic Use	285,892	296,932	304,214	310,155	315,801	321,714	327,268	333,112	339,369	345,638	351,709
Trade *	72,236	74,836	76,402	78,234	80,359	82,785	85,221	87,816	90,521	93,257	95,963
Soybean Meal											
Production	158,031	164,499	169,779	174,390	178,641	183,160	187,389	191,722	196,228	200,737	205,161
Consumption	157,944	163,225	168,838	173,611	177,949	182,507	186,743	191,048	195,513	200,025	204,462
Ending Stocks	5,653	6,311	6,636	6,799	6,875	6,912	6,942	7,000	7,099	7,195	7,278
Trade *	53,360	56,417	59,101	60,768	62,211	63,580	64,812	66,065	67,365	68,649	69,914
Soybean Oil											
Production	37,317	38,954	40,306	41,502	42,617	43,801	44,922	46,076	47,279	48,491	49,690
Consumption	37,180	38,792	40,042	41,175	42,376	43,418	44,576	45,753	46,953	48,163	49,353
Ending Stocks	2,547	2,371	2,297	2,287	2,189	2,234	2,243	2,228	2,216	2,206	2,205
Trade *	8,762	8,503	8,868	9,106	9,553	9,883	10,275	10,665	11,091	11,527	11,988
Per Capita Consumption	5.48	5.65	5.76	5.86	5.96	6.04	6.13	6.23	6.32	6.42	6.51

* Excludes intraregional trade.

U.S. Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	30,207	29,930	30,071	30,379	30,541	30,669	30,657	30,655	30,765	30,894	31,011
(Thousand Hectares)											
Yield	2.67	2.81	2.83	2.86	2.88	2.91	2.93	2.96	2.99	3.02	3.04
(Metric Tons per Hectare)											
Production	80,537	84,071	85,122	86,784	88,024	89,200	89,912	90,746	91,940	93,201	94,304
Beginning Stocks	5,580	5,710	6,422	6,382	6,222	6,135	6,097	6,042	5,988	5,993	6,030
Domestic Supply	86,117	89,781	91,544	93,166	94,247	95,335	96,009	96,789	97,928	99,194	100,334
(Thousand Metric Tons)											
Crush	46,218	47,039	48,392	49,694	50,855	52,049	53,132	54,269	55,544	56,870	58,154
Seed, Residual	4,488	4,742	4,897	4,936	4,941	4,934	4,935	4,960	5,011	5,074	5,127
Ending Stocks	5,710	6,422	6,382	6,222	6,135	6,097	6,042	5,988	5,993	6,030	6,067
Domestic Use	56,416	58,203	59,671	60,853	61,931	63,079	64,109	65,217	66,548	67,975	69,347
Net Trade	29,701	31,578	31,873	32,314	32,315	32,256	31,900	31,572	31,381	31,219	30,987
Soybean Meal											
Production	36,585	37,235	38,306	39,337	40,256	41,201	42,058	42,959	43,968	45,018	46,034
Beginning Stocks	267	276	270	281	289	292	294	294	293	294	296
Domestic Supply	36,852	37,512	38,577	39,618	40,545	41,493	42,352	43,252	44,261	45,312	46,329
Consumption	29,106	29,653	30,252	30,834	31,290	31,793	32,222	32,688	33,183	33,707	34,151
Ending Stocks	276	270	281	289	292	294	294	293	294	296	297
Domestic Use	29,382	29,923	30,533	31,123	31,582	32,086	32,516	32,981	33,477	34,003	34,448
Net Trade	7,470	7,588	8,044	8,495	8,964	9,407	9,836	10,272	10,783	11,309	11,881
Soybean Oil											
Production	8,837	8,994	9,253	9,502	9,724	9,952	10,159	10,377	10,621	10,874	11,120
Beginning Stocks	1,126	956	771	714	685	682	682	683	666	649	635
Domestic Supply	9,963	9,950	10,024	10,216	10,409	10,634	10,842	11,059	11,286	11,523	11,755
Food Use	6,794	6,818	6,745	6,647	6,666	6,692	6,741	6,786	6,835	6,890	6,951
Biodiesel Use	1,443	1,665	1,934	2,271	2,348	2,294	2,295	2,308	2,317	2,317	2,266
Ending Stocks	956	771	714	685	682	682	683	666	649	635	623
Domestic Use	9,192	9,255	9,392	9,603	9,696	9,669	9,718	9,760	9,801	9,842	9,839
Net Trade	771	695	632	613	714	965	1,124	1,300	1,485	1,681	1,915

Argentine Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	18,000	18,705	19,126	19,372	19,571	19,750	19,925	20,113	20,314	20,503	20,690
(Metric Tons per Hectare)											
Yield	2.75	2.86	2.88	2.90	2.92	2.94	2.96	2.98	3.00	3.02	3.04
(Thousand Metric Tons)											
Production	49,500	53,462	55,039	56,141	57,123	58,054	58,982	59,955	60,972	61,963	62,955
Beginning Stocks	21,767	22,194	22,509	22,677	22,731	22,791	22,837	22,892	22,960	23,024	23,093
Domestic Supply	71,267	75,656	77,548	78,818	79,853	80,846	81,819	82,846	83,932	84,987	86,047
Crush	35,620	37,853	39,859	41,427	42,639	43,714	44,573	45,371	46,178	46,909	47,635
Other Use	1,588	1,685	1,741	1,768	1,792	1,812	1,833	1,857	1,882	1,906	1,927
Ending Stocks	22,194	22,509	22,677	22,731	22,791	22,837	22,892	22,960	23,024	23,093	23,140
Domestic Use	59,402	62,047	64,276	65,925	67,222	68,363	69,298	70,188	71,084	71,908	72,701
Net Trade	11,865	13,609	13,272	12,893	12,632	12,482	12,521	12,658	12,848	13,079	13,346
Soybean Meal											
Production	27,855	29,601	31,170	32,396	33,344	34,185	34,857	35,481	36,112	36,683	37,250
Beginning Stocks	1,170	1,008	1,076	1,120	1,144	1,157	1,164	1,171	1,180	1,190	1,200
Domestic Supply	29,025	30,609	32,246	33,516	34,488	35,341	36,020	36,651	37,291	37,873	38,450
Consumption	649	718	757	784	811	838	864	892	924	955	986
Ending Stocks	1,008	1,076	1,120	1,144	1,157	1,164	1,171	1,180	1,190	1,200	1,207
Domestic Use	1,657	1,794	1,876	1,928	1,968	2,001	2,035	2,072	2,114	2,155	2,193
Net Trade	27,368	28,815	30,369	31,587	32,520	33,340	33,985	34,579	35,177	35,718	36,257
Soybean Oil											
Production	6,811	7,264	7,677	8,008	8,272	8,512	8,710	8,898	9,088	9,265	9,442
Beginning Stocks	102	0	93	90	86	89	91	96	100	101	104
Domestic Supply	6,913	7,264	7,771	8,099	8,359	8,601	8,802	8,994	9,188	9,367	9,546
Food Use	390	395	398	400	407	414	423	432	440	448	456
Biodiesel Use	1,103	1,275	1,399	1,487	1,550	1,594	1,624	1,645	1,658	1,665	1,672
Ending Stocks	0	93	90	86	89	91	96	100	101	104	106
Domestic Use	1,493	1,763	1,887	1,973	2,046	2,100	2,143	2,176	2,199	2,217	2,234
Net Trade	5,650	5,501	5,883	6,125	6,313	6,501	6,658	6,817	6,989	7,149	7,312

Brazilian Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	21,300	21,479	21,908	22,415	23,015	23,647	24,316	25,005	25,667	26,268	26,842
(Metric Tons per Hectare)											
Yield	2.77	2.81	2.84	2.87	2.90	2.93	2.97	3.00	3.03	3.06	3.09
(Thousand Metric Tons)											
Production	59,000	60,376	62,262	64,397	66,834	69,401	72,121	74,940	77,717	80,354	82,939
Beginning Stocks	19,156	18,450	18,661	18,470	18,411	18,404	18,387	18,386	18,427	18,505	18,580
Domestic Supply	78,156	78,826	80,923	82,867	85,244	87,805	90,507	93,326	96,145	98,859	101,519
Crush	31,500	33,899	34,660	35,034	35,301	35,620	35,966	36,336	36,747	37,147	37,520
Other Use	3,006	3,046	3,021	3,020	3,031	3,040	3,052	3,073	3,099	3,123	3,144
Ending Stocks	18,450	18,661	18,470	18,411	18,404	18,387	18,386	18,427	18,505	18,580	18,641
Domestic Use	52,956	55,606	56,150	56,465	56,735	57,047	57,404	57,836	58,351	58,850	59,305
Net Trade	25,200	23,220	24,773	26,401	28,509	30,759	33,103	35,489	37,794	40,009	42,214
Soybean Meal											
Production	24,410	26,269	26,859	27,149	27,355	27,603	27,871	28,158	28,476	28,786	29,075
Beginning Stocks	2,588	2,263	2,317	2,311	2,319	2,314	2,302	2,289	2,282	2,282	2,282
Domestic Supply	26,998	28,532	29,176	29,460	29,675	29,917	30,173	30,447	30,758	31,068	31,357
Consumption	12,490	12,842	13,084	13,647	13,967	14,278	14,546	14,846	15,196	15,545	15,885
Ending Stocks	2,263	2,317	2,311	2,319	2,314	2,302	2,289	2,282	2,282	2,282	2,282
Domestic Use	14,753	15,159	15,395	15,966	16,281	16,580	16,835	17,128	17,478	17,828	18,167
Net Trade	12,245	13,373	13,781	13,493	13,394	13,337	13,337	13,319	13,280	13,241	13,190
Soybean Oil											
Production	6,040	6,500	6,646	6,718	6,769	6,830	6,896	6,967	7,046	7,123	7,194
Beginning Stocks	302	290	283	264	252	246	241	237	233	229	224
Domestic Supply	6,342	6,790	6,929	6,982	7,021	7,076	7,137	7,204	7,279	7,351	7,419
Food Use	2,579	2,562	2,431	2,357	2,346	2,335	2,339	2,342	2,338	2,337	2,339
Biodiesel Use	1,383	1,887	2,086	2,183	2,256	2,310	2,350	2,378	2,396	2,406	2,414
Ending Stocks	290	283	264	252	246	241	237	233	229	224	220
Domestic Use	4,252	4,732	4,781	4,791	4,848	4,885	4,926	4,953	4,962	4,968	4,973
Net Trade	2,090	2,058	2,148	2,191	2,173	2,191	2,211	2,251	2,317	2,384	2,446

Canadian Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	1,210	1,201	1,163	1,149	1,150	1,154	1,162	1,169	1,168	1,163	1,162
(Metric Tons per Hectare)											
Yield	2.73	2.74	2.75	2.76	2.78	2.79	2.80	2.81	2.82	2.84	2.85
(Thousand Metric Tons)											
Production	3,300	3,289	3,199	3,175	3,192	3,217	3,254	3,286	3,298	3,298	3,308
Beginning Stocks	229	289	400	458	465	466	446	425	423	444	454
Domestic Supply	3,529	3,578	3,600	3,633	3,657	3,683	3,700	3,711	3,721	3,741	3,763
Crush	1,430	1,388	1,386	1,396	1,408	1,441	1,469	1,490	1,502	1,521	1,538
Other Use	330	357	358	355	356	352	349	351	356	357	359
Ending Stocks	289	400	458	465	466	446	425	423	444	454	462
Domestic Use	2,049	2,144	2,203	2,216	2,230	2,239	2,243	2,263	2,302	2,333	2,360
Net Trade	1,480	1,433	1,397	1,417	1,427	1,444	1,457	1,448	1,419	1,409	1,403
Soybean Meal											
Production	1,125	1,092	1,090	1,098	1,108	1,134	1,155	1,172	1,182	1,197	1,210
Beginning Stocks	20	22	28	31	32	32	32	31	31	32	32
Domestic Supply	1,145	1,114	1,118	1,129	1,140	1,166	1,187	1,203	1,213	1,229	1,243
Consumption	2,483	2,713	2,846	2,906	2,932	2,935	2,929	2,945	2,990	3,017	3,040
Ending Stocks	22	28	31	32	32	32	31	31	32	32	33
Domestic Use	2,505	2,740	2,877	2,938	2,964	2,967	2,960	2,976	3,022	3,049	3,073
Net Trade	-1,360	-1,627	-1,759	-1,809	-1,824	-1,801	-1,773	-1,773	-1,810	-1,820	-1,831
Soybean Oil											
Production	274	266	266	267	270	276	281	285	288	291	295
Beginning Stocks	3	9	10	10	9	9	9	8	8	8	8
Domestic Supply	277	275	275	277	279	285	290	294	296	300	303
Consumption	325	332	338	338	341	342	343	346	350	352	355
Ending Stocks	9	10	10	9	9	9	8	8	8	8	8
Domestic Use	334	342	348	347	350	351	352	354	358	361	364
Net Trade	-57	-67	-73	-70	-71	-65	-61	-60	-62	-61	-60

Chinese Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	9,300	9,045	8,993	8,959	8,922	8,911	8,884	8,860	8,814	8,761	8,710
(Metric Tons per Hectare)											
Yield	1.81	1.83	1.85	1.87	1.89	1.91	1.93	1.95	1.97	1.99	2.01
(Thousand Metric Tons)											
Production	16,800	16,520	16,606	16,721	16,831	16,989	17,115	17,245	17,333	17,404	17,477
Beginning Stocks	4,245	4,721	4,845	4,912	4,952	4,998	5,027	5,050	5,078	5,113	5,141
Domestic Supply	21,045	21,241	21,451	21,633	21,784	21,987	22,143	22,295	22,411	22,517	22,618
Crush	41,474	43,105	45,219	47,256	49,191	51,363	53,525	55,726	57,970	60,274	62,601
Food Use	8,650	8,836	8,952	9,030	9,121	9,185	9,238	9,303	9,382	9,450	9,503
Feed Use	1,750	1,745	1,743	1,741	1,740	1,739	1,738	1,737	1,735	1,733	1,731
Ending Stocks	4,721	4,845	4,912	4,952	4,998	5,027	5,050	5,078	5,113	5,141	5,161
Domestic Use	56,595	58,532	60,826	62,980	65,050	67,314	69,550	71,844	74,200	76,598	78,997
Net Trade	-35,550	-37,290	-39,375	-41,346	-43,266	-45,327	-47,408	-49,549	-51,789	-54,081	-56,379
Soybean Meal											
Production	32,825	34,116	35,789	37,401	38,933	40,651	42,363	44,105	45,881	47,704	49,546
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	32,825	34,116	35,789	37,401	38,933	40,651	42,363	44,105	45,881	47,704	49,546
Consumption	32,425	33,663	35,346	36,935	38,576	40,336	42,078	43,761	45,485	47,227	49,032
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	32,425	33,663	35,346	36,935	38,576	40,336	42,078	43,761	45,485	47,227	49,032
Net Trade	400	453	442	467	356	315	285	344	396	477	515
Soybean Oil											
Production	7,405	7,761	8,209	8,650	9,078	9,556	10,038	10,535	11,046	11,575	12,116
Beginning Stocks	227	357	358	356	356	358	359	360	361	362	363
Domestic Supply	7,632	8,118	8,567	9,006	9,434	9,913	10,397	10,895	11,407	11,938	12,479
Consumption	9,575	10,072	10,601	11,170	11,847	12,517	13,208	13,923	14,677	15,454	16,248
Ending Stocks	357	358	356	356	358	359	360	361	362	363	364
Domestic Use	9,932	10,429	10,957	11,525	12,204	12,876	13,568	14,284	15,039	15,818	16,612
Net Trade	-2,300	-2,312	-2,390	-2,519	-2,771	-2,963	-3,171	-3,390	-3,632	-3,880	-4,133

European Union Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	275	262	254	254		(Thousand Hectares)					
					260	264	266	266	265	264	263
Yield											
	2.73	2.75	2.77	2.78		(Metric Tons per Hectare)					
					2.80	2.82	2.84	2.85	2.87	2.89	2.90
Production											
Beginning Stocks	750	719	704	707	728	746	754	759	761	763	765
Domestic Supply	819	809	1,184	1,196	1,187	1,188	1,190	1,195	1,202	1,211	1,220
	1,569	1,528	1,888	1,903	1,915	1,934	1,944	1,954	1,964	1,974	1,984
Crush											
Other Use	13,650	14,004	13,561	13,242	13,124	13,099	13,080	13,132	13,165	13,181	13,176
Ending Stocks	1,230	1,163	1,170	1,160	1,165	1,171	1,177	1,185	1,195	1,203	1,211
Domestic Use	809	1,184	1,196	1,187	1,188	1,190	1,195	1,202	1,211	1,220	1,228
	15,689	16,351	15,926	15,589	15,477	15,460	15,452	15,520	15,571	15,604	15,615
Net Trade	-14,120	-14,824	-14,038	-13,686	-13,562	-13,526	-13,508	-13,566	-13,607	-13,630	-13,631
Soybean Meal											
Production	10,750	11,029	10,680	10,429	10,335	10,316	10,301	10,342	10,368	10,380	10,377
Beginning Stocks	1,065	950	1,098	1,194	1,223	1,241	1,255	1,270	1,290	1,320	1,349
Domestic Supply	11,815	11,979	11,778	11,623	11,558	11,557	11,556	11,612	11,658	11,701	11,725
Consumption											
Ending Stocks	33,315	34,637	35,343	35,360	35,460	35,602	35,658	35,742	35,860	35,998	36,131
Domestic Use	950	1,098	1,194	1,223	1,241	1,255	1,270	1,290	1,320	1,349	1,375
	34,265	35,734	36,537	36,582	36,702	36,857	36,928	37,033	37,180	37,347	37,506
Net Trade	-22,450	-23,755	-24,759	-24,959	-25,144	-25,299	-25,372	-25,421	-25,522	-25,647	-25,781
Soybean Oil											
Production	2,456	2,520	2,440	2,383	2,361	2,357	2,353	2,363	2,369	2,372	2,371
Beginning Stocks	190	153	153	152	149	149	149	150	150	151	152
Domestic Supply	2,646	2,673	2,593	2,535	2,510	2,505	2,502	2,512	2,519	2,523	2,523
Food Use											
Biodiesel and Industrial Use	1,658	1,663	1,666	1,649	1,652	1,656	1,664	1,670	1,677	1,682	1,688
Other Use	1,075	1,219	1,328	1,391	1,407	1,423	1,428	1,426	1,431	1,439	1,447
Ending Stocks	130	130	130	130	130	130	130	130	130	130	130
Domestic Use	153	153	152	149	149	149	150	150	151	152	153
	3,016	3,165	3,275	3,319	3,338	3,357	3,371	3,377	3,389	3,402	3,418
Net Trade	-370	-493	-682	-784	-828	-852	-869	-864	-870	-880	-895

Indian Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	9,600	10,146	10,384	10,576	10,727	10,828	10,904	10,981	11,057	11,121	11,177
(Metric Tons per Hectare)											
Yield	1.01	1.03	1.04	1.06	1.07	1.09	1.10	1.11	1.13	1.14	1.15
(Thousand Metric Tons)											
Production	9,700	10,412	10,815	11,174	11,492	11,757	11,993	12,231	12,465	12,686	12,896
Beginning Stocks	125	175	185	189	191	193	196	198	200	203	205
Domestic Supply	9,825	10,587	11,000	11,364	11,683	11,950	12,189	12,428	12,665	12,889	13,101
Crush	8,340	9,030	9,396	9,727	10,017	10,258	10,477	10,695	10,909	11,112	11,306
Other Use	1,305	1,366	1,409	1,441	1,468	1,491	1,510	1,528	1,548	1,566	1,583
Ending Stocks	175	185	189	191	193	196	198	200	203	205	208
Domestic Use	9,820	10,582	10,995	11,359	11,678	11,945	12,184	12,423	12,660	12,884	13,096
Net Trade	5	5	5	5	5	5	5	5	5	5	5
Soybean Meal											
Production	6,658	7,209	7,501	7,765	7,996	8,189	8,364	8,538	8,709	8,871	9,026
Beginning Stocks	106	123	219	275	308	329	345	358	373	393	411
Domestic Supply	6,764	7,332	7,720	8,040	8,305	8,518	8,709	8,896	9,082	9,264	9,437
Consumption	1,843	2,097	2,172	2,225	2,261	2,302	2,336	2,373	2,411	2,451	2,488
Ending Stocks	123	219	275	308	329	345	358	373	393	411	427
Domestic Use	1,966	2,317	2,447	2,533	2,590	2,647	2,694	2,746	2,805	2,862	2,915
Net Trade	4,798	5,016	5,274	5,507	5,715	5,871	6,015	6,150	6,277	6,403	6,522
Soybean Oil											
Production	1,490	1,618	1,688	1,752	1,810	1,858	1,903	1,948	1,993	2,035	2,076
Beginning Stocks	87	87	13	9	5	12	21	30	38	45	51
Domestic Supply	1,577	1,705	1,701	1,762	1,815	1,870	1,924	1,978	2,030	2,080	2,128
Consumption	2,130	2,014	2,125	2,249	2,394	2,545	2,710	2,883	3,061	3,236	3,417
Ending Stocks	87	13	9	5	12	21	30	38	45	51	57
Domestic Use	2,217	2,027	2,134	2,254	2,406	2,566	2,740	2,921	3,106	3,288	3,474
Net Trade	-640	-322	-433	-492	-591	-695	-816	-943	-1,076	-1,208	-1,346

Japanese Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	138	118	112	112		(Thousand Hectares)					
Yield	1.63	1.65	1.67	1.68		(Metric Tons per Hectare)					
Production	225	195	187	188	191	195	199	203	206	208	209
Beginning Stocks	286	256	273	284	282	280	278	276	276	280	283
Domestic Supply	511	451	461	472	473	475	477	479	482	487	492
Crush	2,840	2,688	2,581	2,481	2,448	2,445	2,441	2,439	2,432	2,427	2,416
Food Use	1,055	1,075	1,088	1,083	1,079	1,074	1,070	1,068	1,070	1,072	1,074
Feed Use	360	348	338	333	332	333	334	335	336	337	337
Ending Stocks	256	273	284	282	280	278	276	276	280	283	286
Domestic Use	4,511	4,383	4,291	4,178	4,140	4,130	4,121	4,119	4,119	4,119	4,113
Net Trade	-4,000	-3,932	-3,830	-3,706	-3,666	-3,655	-3,644	-3,640	-3,637	-3,632	-3,620
Soybean Meal											
Production	2,209	2,091	2,008	1,929	1,904	1,902	1,899	1,897	1,892	1,887	1,879
Beginning Stocks	181	174	193	207	212	213	213	213	213	216	219
Domestic Supply	2,390	2,265	2,201	2,136	2,116	2,115	2,112	2,110	2,105	2,104	2,098
Consumption	3,976	3,989	4,067	4,112	4,163	4,207	4,221	4,228	4,223	4,229	4,248
Ending Stocks	174	193	207	212	213	213	213	213	216	219	222
Domestic Use	4,150	4,181	4,273	4,324	4,376	4,420	4,433	4,441	4,439	4,449	4,470
Net Trade	-1,760	-1,917	-2,073	-2,188	-2,260	-2,305	-2,321	-2,331	-2,334	-2,345	-2,372
Soybean Oil											
Production	519	491	472	453	447	447	446	446	444	443	441
Beginning Stocks	22	22	21	21	20	19	19	19	19	19	19
Domestic Supply	541	513	493	474	467	466	465	465	463	462	460
Consumption	564	564	567	556	554	552	551	550	548	546	543
Ending Stocks	22	21	21	20	19	19	19	19	19	19	19
Domestic Use	586	586	588	576	573	571	570	568	567	564	562
Net Trade	-45	-72	-94	-102	-106	-105	-105	-104	-104	-102	-102

Mexican Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	65	68	69	70		(Thousand Hectares)					
Yield	2.46	2.48	2.50	2.52		(Metric Tons per Hectare)					
Production	160	170	172	176	181	186	192	196	201	205	209
Beginning Stocks	30	40	42	43	43	42	42	42	42	43	44
Domestic Supply	190	210	215	219	224	229	234	238	243	248	252
Crush	3,700	3,597	3,619	3,664	3,696	3,738	3,770	3,779	3,784	3,786	3,789
Food Use	0	0	0	0	0	0	0	0	0	0	0
Feed Use	35	35	35	35	35	35	35	35	35	35	35
Ending Stocks	40	42	43	43	42	42	42	42	43	44	44
Domestic Use	3,775	3,674	3,697	3,742	3,774	3,815	3,847	3,857	3,861	3,865	3,868
Net Trade	-3,585	-3,464	-3,482	-3,522	-3,550	-3,586	-3,614	-3,618	-3,619	-3,617	-3,616
Soybean Meal											
Production	2,935	2,853	2,871	2,907	2,932	2,965	2,991	2,998	3,001	3,004	3,005
Beginning Stocks	112	113	117	119	119	120	119	119	120	120	121
Domestic Supply	3,047	2,966	2,988	3,025	3,051	3,085	3,110	3,117	3,121	3,124	3,127
Consumption	4,525	4,668	4,661	4,703	4,747	4,789	4,833	4,888	4,933	4,981	5,021
Ending Stocks	113	117	119	119	120	119	119	120	120	121	122
Domestic Use	4,638	4,785	4,780	4,823	4,866	4,908	4,952	5,008	5,054	5,102	5,143
Net Trade	-1,591	-1,819	-1,792	-1,797	-1,815	-1,824	-1,842	-1,890	-1,933	-1,978	-2,016
Soybean Oil											
Production	645	627	631	639	644	652	657	659	660	660	660
Beginning Stocks	12	9	9	9	9	9	8	8	8	8	9
Domestic Supply	657	636	640	648	653	660	666	667	668	669	669
Consumption	873	886	878	867	873	878	887	904	919	936	954
Ending Stocks	9	9	9	9	9	8	8	8	8	9	9
Domestic Use	882	895	887	876	882	886	896	912	928	945	962
Net Trade	-225	-259	-247	-228	-229	-226	-230	-245	-260	-276	-293

Other CIS Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	725	749	782	815		(Thousand Hectares)					
Yield	0.97	0.99	1.01	1.04		(Metric Tons per Hectare)					
Production	700	742	794	846		(Thousand Metric Tons)					
Beginning Stocks	40	24	28	31		900	955	1,012	1,070	1,130	1,191
Domestic Supply	740	766	822	877		31	32	32	32	33	33
Crush	996	1,028	1,068	1,115		1,161	1,210	1,258	1,306	1,355	1,403
Other Use	20	21	23	24		25	26	27	28	29	30
Ending Stocks	24	28	31	31		32	32	32	33	33	34
Domestic Use	1,040	1,077	1,121	1,169		1,218	1,267	1,317	1,366	1,416	1,467
Net Trade	-300	-312	-299	-293		-287	-281	-273	-264	-254	-243
Soybean Meal											
Production	784	806	838	875		911	949	987	1,025	1,063	1,101
Beginning Stocks	15	7	9	10		10	10	11	11	11	11
Domestic Supply	799	813	847	885		922	960	998	1,035	1,074	1,112
Consumption	1,864	1,932	1,986	2,030		2,067	2,100	2,132	2,166	2,201	2,238
Ending Stocks	7	9	10	10		10	11	11	11	11	11
Domestic Use	1,871	1,941	1,996	2,041		2,077	2,110	2,142	2,176	2,212	2,249
Net Trade	-1,072	-1,128	-1,149	-1,156		-1,156	-1,151	-1,145	-1,141	-1,138	-1,136
Soybean Oil											
Production	177	183	190	198		206	215	223	232	241	249
Beginning Stocks	77	24	25	25		25	25	25	25	25	25
Domestic Supply	254	207	214	223		231	240	249	257	266	275
Consumption	250	247	249	249		251	253	255	257	260	261
Ending Stocks	24	25	25	25		25	25	25	25	25	26
Domestic Use	274	271	274	274		276	278	280	282	285	287
Net Trade	-20	-65	-59	-51		-45	-38	-32	-25	-19	-12

Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

Paraguayan Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	2,450	2,551	2,569	2,605	2,700	2,831	2,971	3,116	3,267	3,426	3,587
(Thousand Hectares)											
Yield	2.29	2.62	2.64	2.67	2.69	2.72	2.74	2.77	2.79	2.82	2.84
(Metric Tons per Hectare)											
Production	5,600	6,684	6,795	6,954	7,272	7,695	8,149	8,622	9,122	9,650	10,189
Beginning Stocks	160	74	82	83	85	87	88	89	91	93	95
Domestic Supply	5,760	6,758	6,877	7,037	7,357	7,782	8,237	8,711	9,212	9,742	10,284
Crush	1,550	1,528	1,552	1,587	1,636	1,690	1,744	1,804	1,868	1,931	1,995
Food Use	0	0	0	0	0	0	0	0	0	0	0
Feed Use	151	158	159	161	163	166	169	173	176	180	185
Ending Stocks	74	82	83	85	87	88	89	91	93	95	97
Domestic Use	1,775	1,767	1,795	1,833	1,886	1,944	2,002	2,067	2,137	2,207	2,276
Net Trade	3,985	4,991	5,082	5,204	5,472	5,838	6,235	6,644	7,075	7,536	8,008
Soybean Meal											
Production	1,223	1,205	1,225	1,252	1,291	1,333	1,376	1,423	1,474	1,524	1,574
Beginning Stocks	32	31	37	39	41	42	41	40	40	40	40
Domestic Supply	1,255	1,236	1,262	1,292	1,332	1,375	1,417	1,463	1,514	1,564	1,614
Consumption	145	27	31	31	28	24	23	22	22	23	25
Ending Stocks	31	37	39	41	42	41	40	40	40	40	39
Domestic Use	176	64	71	73	69	65	63	62	62	63	65
Net Trade	1,079	1,172	1,191	1,219	1,263	1,310	1,354	1,401	1,452	1,501	1,549
Soybean Oil											
Production	279	275	279	286	294	304	314	325	336	348	359
Beginning Stocks	33	25	14	51	120	22	60	52	38	33	25
Domestic Supply	312	300	293	337	414	326	374	377	374	381	384
Consumption	36	37	38	39	39	40	41	41	42	43	43
Ending Stocks	25	14	51	120	22	60	52	38	33	25	26
Domestic Use	61	51	89	159	61	100	93	79	75	68	69
Net Trade	251	249	205	178	353	226	281	297	299	313	315

South Korean Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	85	77	67	65	65	66	66	66	66	66	54
(Metric Tons per Hectare)											
Yield	1.59	1.60	1.61	1.63	1.64	1.65	1.66	1.68	1.69	1.70	1.71
(Thousand Metric Tons)											
Production	135	123	108	106	107	108	110	111	112	112	92
Beginning Stocks	42	40	68	72	71	72	71	71	72	73	75
Domestic Supply	177	163	176	178	178	180	181	182	183	185	166
Crush	921	875	887	891	892	899	901	907	918	929	936
Food Use	425	443	447	446	446	446	446	446	447	449	450
Feed Use	51	48	44	43	43	44	44	44	44	44	39
Ending Stocks	40	68	72	71	72	71	71	72	73	75	76
Domestic Use	1,437	1,434	1,449	1,452	1,453	1,460	1,462	1,469	1,482	1,496	1,501
Net Trade	-1,260	-1,272	-1,274	-1,274	-1,275	-1,280	-1,281	-1,287	-1,299	-1,311	-1,335
Soybean Meal											
Production	736	699	708	712	713	718	720	725	734	742	748
Beginning Stocks	180	180	278	301	309	312	312	313	315	321	326
Domestic Supply	916	879	986	1,013	1,021	1,030	1,032	1,038	1,049	1,063	1,074
Consumption	2,586	2,864	2,886	2,891	2,906	2,933	2,953	2,967	2,981	2,989	2,998
Ending Stocks	180	278	301	309	312	312	313	315	321	326	331
Domestic Use	2,766	3,141	3,187	3,199	3,217	3,246	3,266	3,282	3,302	3,315	3,329
Net Trade	-1,850	-2,262	-2,201	-2,186	-2,196	-2,215	-2,234	-2,244	-2,253	-2,253	-2,255
Soybean Oil											
Production	171	163	165	165	166	167	167	168	170	172	174
Beginning Stocks	30	30	32	32	31	31	31	31	31	31	31
Domestic Supply	201	193	197	198	197	198	198	199	202	204	205
Consumption	476	528	532	526	531	536	543	550	556	563	570
Ending Stocks	30	32	32	31	31	31	31	31	31	31	31
Domestic Use	506	561	564	558	563	567	574	581	587	594	602
Net Trade	-305	-368	-367	-360	-366	-369	-376	-381	-385	-390	-397

Taiwanese Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Metric Tons)											
Soybeans											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	90	100	116	123	128	131	134	137	141	144	148
Domestic Supply	90	100	116	123	128	131	134	137	141	144	148
Crush	2,075	2,079	2,097	2,113	2,134	2,157	2,179	2,200	2,222	2,244	2,266
Food Use	265	274	279	283	285	287	289	293	296	299	302
Feed Use	0	0	0	0	0	0	0	0	0	0	0
Ending Stocks	100	116	123	128	131	134	137	141	144	148	151
Domestic Use	2,440	2,468	2,498	2,524	2,551	2,578	2,605	2,633	2,662	2,690	2,719
Net Trade	-2,350	-2,368	-2,383	-2,402	-2,423	-2,447	-2,471	-2,497	-2,521	-2,546	-2,571
Soybean Meal											
Production	1,637	1,640	1,654	1,667	1,684	1,702	1,719	1,735	1,753	1,770	1,787
Beginning Stocks	20	20	25	27	29	30	31	31	32	33	34
Domestic Supply	1,657	1,660	1,679	1,695	1,713	1,732	1,750	1,767	1,785	1,803	1,821
Consumption	1,640	1,751	1,815	1,874	1,903	1,934	1,958	1,986	2,011	2,038	2,062
Ending Stocks	20	25	27	29	30	31	31	32	33	34	34
Domestic Use	1,660	1,776	1,842	1,903	1,933	1,964	1,989	2,018	2,044	2,072	2,096
Net Trade	-3	-116	-164	-209	-220	-233	-240	-251	-259	-268	-275
Soybean Oil											
Production	365	366	369	372	375	379	383	387	391	395	399
Beginning Stocks	16	18	19	18	17	18	19	21	22	23	24
Domestic Supply	381	384	388	389	393	398	402	408	413	418	423
Consumption	415	422	417	417	423	429	438	447	453	459	466
Ending Stocks	18	19	18	17	18	19	21	22	23	24	26
Domestic Use	433	441	435	435	441	448	458	470	476	483	491
Net Trade	-52	-58	-47	-45	-49	-51	-56	-62	-63	-65	-68

Rest-of-World Soybean Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Soybeans											
Area Harvested	4,430	4,565	4,715	4,852	4,985	5,119	5,249	5,380	5,509	5,637	5,764
Yield	1.44	1.45	1.47	1.48	1.49	1.51	1.52	1.53	1.54	1.55	1.56
Production	6,385	6,641	6,922	7,186	7,446	7,708	7,968	8,230	8,492	8,754	9,015
Beginning Stocks	531	648	673	680	680	681	683	684	688	693	699
Domestic Supply	6,916	7,289	7,595	7,866	8,125	8,390	8,650	8,914	9,180	9,447	9,714
Crush	10,393	10,838	11,373	11,864	12,371	12,914	13,438	13,984	14,549	15,114	15,667
Food Use	3,546	3,631	3,665	3,679	3,699	3,718	3,737	3,762	3,792	3,822	3,851
Feed Use	2,149	2,271	2,346	2,397	2,454	2,509	2,564	2,625	2,691	2,758	2,822
Ending Stocks	648	673	680	680	681	683	684	688	693	699	704
Domestic Use	16,736	17,412	18,064	18,619	19,206	19,823	20,424	21,058	21,725	22,393	23,044
Net Trade	-9,820	-10,124	-10,469	-10,754	-11,081	-11,433	-11,773	-12,144	-12,545	-12,946	-13,330
Soybean Meal											
Production	8,299	8,653	9,081	9,473	9,878	10,311	10,730	11,165	11,617	12,068	12,510
Beginning Stocks	426	486	645	722	763	783	794	803	820	847	873
Domestic Supply	8,725	9,139	9,726	10,195	10,641	11,094	11,524	11,968	12,436	12,915	13,383
Consumption	30,897	31,671	33,592	35,279	36,838	38,436	39,990	41,545	43,091	44,627	46,119
Ending Stocks	486	645	722	763	783	794	803	820	847	873	898
Domestic Use	31,383	32,317	34,315	36,042	37,621	39,231	40,793	42,365	43,938	45,501	47,017
Net Trade	-22,658	-23,178	-24,588	-25,847	-26,980	-28,136	-29,269	-30,396	-31,501	-32,585	-33,633
Soybean Oil											
Production	1,848	1,927	2,022	2,109	2,199	2,296	2,389	2,486	2,586	2,687	2,785
Beginning Stocks	521	567	569	546	523	521	520	524	528	530	534
Domestic Supply	2,369	2,494	2,591	2,655	2,722	2,817	2,909	3,010	3,114	3,217	3,319
Consumption	5,982	6,075	6,181	6,248	6,361	6,478	6,606	6,735	6,866	6,999	7,131
Ending Stocks	567	569	546	523	521	520	524	528	530	534	538
Domestic Use	6,549	6,644	6,728	6,771	6,882	6,998	7,130	7,263	7,397	7,532	7,669
Net Trade	-4,410	-4,150	-4,137	-4,116	-4,160	-4,181	-4,221	-4,253	-4,283	-4,315	-4,350

World Rapeseed and Rapeseed Products

The world rapeseed price declines by 28% in 2008/09 because of large supplies and weaker demand. The price is expected to decline again by 10% next season because of stagnant consumption and large carryover. It then remains strong over the rest of the outlook period. The rapeseed meal price declines by 30% in 2008/09 and keeps declining through the middle of the projection period as supply outpaces demand. The rapeseed oil price plunges by 34% from the record high of 2007/08 but recovers throughout the outlook period, encouraged by demand for food and industrial uses. In the outer years of the projection, the rapeseed oil price stays close to that of sunflower oil.

Area expansion in Australia, Canada, the CIS, and Ukraine combined with strong yields boosted world rapeseed production by 16% in 2008/09. By 2018/19, world rapeseed production reaches 65 mmt. The largest producer, the EU, holds 36% of the market, while China possesses a 21% production share over the next decade. World consumption increases 21% by 2018/19 as biodiesel demand in the EU continues to expand. Net exports of rapeseed increase to 11.2 mmt over the baseline, with Canada positioned as the dominant net exporter. Ukraine's market share increases, reaching 28% by 2018/19.

Canada's rapeseed harvested area is expected to increase to 6.9 mha, pushing production to 13 mmt by 2018/19. Canada's rapeseed and derived products are generally export oriented. By 2018/19, Canada's rapeseed net exports increase to 6.4 mmt while its domestic crush grows by 36%. Canada remains the leading net exporter of rapeseed/canola in the world throughout the projection period, although its market share declines from 77% to 57% between 2007/08 and 2018/19. Canada is also a strong net exporter of rapeseed meal and oil. Over the next decade, Canada's rapeseed meal net exports reach 2.8 mmt, accounting for 66% of world net exports. Rapeseed oil net exports increase 46% by 2018/19, contributing almost 85% of world net exports.

Ukraine emerges as an important net exporter of rapeseed throughout the baseline. Its production increased by 154%, to 2.8 mmt, in 2008/09 as a result of fast-expanding area (up by 56%) and bumper yields (up by 64%). Because of a lack of crushing facilities, more than 83% of the annual production enters the world market by 2018/19. Net exports more than double, to 3.2 mmt, over the next decade.

Over the outlook period, rapeseed remains the dominant oilseed crop in the EU. Harvested area expanded by 4% in 2008/09 from the large area of the previous season, driven by weaker competition from coarse grains. Total area expands to 7.3 mha by 2018/19. Yield improvements, along with area growth, drive production up to 24 mmt. Because of extensive demand for biodiesel, rapeseed crush is projected to grow on average by 2.1% annually for the remainder of the baseline. Consumption of rapeseed oil continues to grow, driven by biodiesel demand, and reaches 11 mmt by 2018/19. Despite the expansion in rapeseed production and crushing facilities, the demand for rapeseed oil outpaces the rapeseed crush volume. The EU imports increasing quantities of rapeseed oil throughout the baseline period. Net imports reach 1 mmt by 2018/19.

Chinese rapeseed net imports increase 30% in 2008/09 despite a 9% increase in production based on increased harvested area. Net imports increase by 107%, reaching 2.2 mmt, in 2018/19. Domestic crush expands at an average annual rate of 2%. Because of the growing livestock industry, rapeseed meal usage for feed increases by 22% over the outlook period, a demand satisfied mostly through domestic crushing. In contrast to the EU, China's rapeseed oil consumption is primarily used for food. China's net imports of rapeseed oil remain relatively low over the next decade.

Rapeseed Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Australia	745	786	793	808	813	818	819	823	828	831	835
Canada	5,700	5,351	5,472	5,626	5,769	5,883	5,971	6,055	6,152	6,260	6,397
Other CIS †	557	535	573	602	627	652	677	703	731	760	789
Ukraine	2,247	2,523	2,703	2,834	2,928	2,998	3,049	3,088	3,120	3,146	3,169
Total Net Exports *	9,249	9,195	9,541	9,869	10,136	10,350	10,517	10,670	10,831	10,996	11,190
Net Importers											
China	1,049	1,021	994	1,012	1,209	1,393	1,542	1,665	1,799	1,971	2,172
European Union	1,450	1,221	1,520	1,752	1,723	1,674	1,624	1,589	1,554	1,486	1,421
India	96	96	96	96	96	96	96	96	96	96	96
Japan	2,350	2,495	2,481	2,499	2,521	2,534	2,549	2,561	2,570	2,581	2,588
United States	493	437	405	393	399	399	396	392	388	386	385
Rest of World	3,407	3,520	3,641	3,714	3,783	3,849	3,906	3,963	4,020	4,072	4,124
Residual	404	404	404	404	404	404	404	404	404	404	404
Total Net Imports	9,249	9,195	9,541	9,869	10,136	10,350	10,517	10,670	10,831	10,996	11,190
Prices											
(U.S. Dollars per Metric Ton)											
Cash Vancouver	406	369	403	408	408	415	416	418	420	417	416
CIF Hamburg	463	420	460	466	466	473	475	477	479	476	475

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

Rapeseed Meal Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Canada	1,997	2,222	2,247	2,304	2,376	2,460	2,545	2,617	2,671	2,735	2,796
European Union	120	-93	-83	-8	30	58	59	63	64	37	-7
India	800	500	642	719	739	743	769	807	861	916	985
Other CIS †	111	115	120	127	135	143	151	159	166	172	179
Ukraine	60	74	89	102	115	129	142	155	167	180	192
Total Net Exports *	3,092	3,196	3,248	3,294	3,435	3,569	3,703	3,842	3,980	4,099	4,211
Net Importers											
China	100	-221	-102	0	36	69	91	128	167	177	173
Japan	33	-64	-48	-42	-39	-35	-37	-42	-51	-58	-60
United States	1,912	1,864	1,859	1,884	1,918	1,940	1,969	1,992	2,016	2,045	2,076
Rest of World	841	1,034	1,100	1,196	1,275	1,354	1,437	1,516	1,591	1,670	1,749
Residual	206	206	206	206	206	206	206	206	206	206	206
Total Net Imports	3,092	3,196	3,248	3,294	3,435	3,569	3,703	3,842	3,980	4,099	4,211
Price											
(U.S. Dollars per Metric Ton)											
FOB Hamburg	211	199	193	187	188	191	195	197	198	198	197

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

Rapeseed Oil Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Australia	42	45	44	44	46	47	49	51	54	56	58
Canada	1,410	1,630	1,660	1,708	1,761	1,821	1,881	1,930	1,968	2,011	2,054
Other CIS †	55	87	94	102	110	117	125	131	138	145	152
Ukraine	60	69	80	90	100	110	119	129	138	147	156
Total Net Exports *	1,568	1,832	1,879	1,945	2,017	2,097	2,175	2,242	2,299	2,360	2,420
Net Importers											
China	320	171	74	65	75	81	92	105	105	99	75
European Union	60	445	662	711	753	812	851	881	918	950	1,004
India	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Japan	20	22	24	26	28	30	32	34	36	38	40
United States	1,013	998	963	984	998	1,008	1,023	1,035	1,044	1,063	1,078
Rest of World	35	76	36	38	42	45	56	67	75	90	103
Residual	120	120	120	120	120	120	120	120	120	120	120
Total Net Imports	1,568	1,832	1,879	1,945	2,017	2,097	2,175	2,242	2,299	2,360	2,420
Price											
FOB Hamburg	927	975	1,101	1,155	1,184	1,218	1,237	1,256	1,282	1,295	1,311

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

World Rapeseed Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Rapeseed											
Area Harvested	30,055	30,330	30,446	30,860	31,137	31,344	31,560	31,761	31,976	32,201	32,412
(Thousand Hectares)											
Production	55,965	55,762	56,620	58,014	59,231	60,285	61,333	62,340	63,363	64,411	65,434
Beginning Stocks	3,091	5,177	5,383	5,361	5,392	5,431	5,434	5,450	5,477	5,514	5,555
Domestic Supply	59,056	60,939	62,003	63,376	64,623	65,716	66,767	67,790	68,840	69,925	70,989
Crush	50,446	51,909	53,280	54,741	55,905	56,933	57,916	58,864	59,834	60,832	61,850
Other Use	3,029	3,243	2,957	2,839	2,883	2,945	2,997	3,044	3,088	3,134	3,147
Residual	404	404	404	404	404	404	404	404	404	404	404
Ending Stocks	5,177	5,383	5,361	5,392	5,431	5,434	5,450	5,477	5,514	5,555	5,588
Domestic Use	59,056	60,939	62,003	63,376	64,623	65,716	66,767	67,790	68,840	69,925	70,989
Trade *	9,249	9,195	9,541	9,869	10,136	10,350	10,517	10,670	10,831	10,996	11,190
Rapeseed Meal											
Production	29,964	30,851	31,660	32,524	33,211	33,817	34,398	34,958	35,531	36,122	36,727
Consumption	29,712	30,628	31,441	32,309	33,001	33,610	34,191	34,750	35,321	35,913	36,517
Ending Stocks	358	374	387	396	400	401	402	404	408	412	416
Trade *	3,092	3,196	3,248	3,294	3,435	3,569	3,703	3,842	3,980	4,099	4,211
Rapeseed Oil											
Production	19,790	20,345	20,889	21,466	21,929	22,339	22,729	23,105	23,490	23,883	24,283
Consumption	19,607	20,236	20,794	21,357	21,811	22,220	22,606	22,983	23,369	23,760	24,160
Ending Stocks	494	483	458	447	445	444	446	448	449	452	455
Trade *	1,568	1,832	1,879	1,945	2,017	2,097	2,175	2,242	2,299	2,360	2,420
Per Capita Consumption	2.89	2.95	2.99	3.04	3.07	3.09	3.11	3.13	3.15	3.17	3.19
(Kilograms)											

* Excludes intraregional trade.

U.S. Canola Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Canola											
Area Harvested	399	431	428	453	435	439	447	461	475	487	501
(Metric Tons per Hectare)											
Yield	1.70	1.62	1.64	1.66	1.68	1.70	1.72	1.74	1.77	1.79	1.81
(Thousand Metric Tons)											
Production	677	700	703	753	733	748	770	804	839	869	904
Beginning Stocks	157	166	162	160	165	166	167	167	166	165	165
Domestic Supply	834	866	866	913	899	915	937	971	1,004	1,035	1,069
Crush	1,000	1,026	1,041	1,068	1,072	1,080	1,093	1,114	1,138	1,161	1,187
Other Use	29	27	27	28	29	30	30	30	31	31	32
Ending Stocks	166	162	160	165	166	167	167	166	165	165	164
Domestic Use	1,195	1,216	1,229	1,262	1,267	1,276	1,289	1,310	1,334	1,357	1,383
Net Trade	-361	-350	-363	-349	-368	-362	-352	-339	-330	-323	-314
Canola Meal											
Production	608	624	633	650	652	656	665	677	692	706	722
Beginning Stocks	5	5	5	5	5	5	5	5	5	5	5
Domestic Supply	614	629	639	655	657	662	670	683	697	712	727
Consumption	2,507	2,571	2,619	2,644	2,661	2,685	2,727	2,783	2,832	2,888	2,937
Ending Stocks	5	5	5	5	5	5	5	5	5	5	5
Domestic Use	2,513	2,577	2,625	2,649	2,667	2,690	2,733	2,789	2,837	2,893	2,942
Net Trade	-1,899	-1,948	-1,986	-1,994	-2,010	-2,028	-2,063	-2,106	-2,140	-2,181	-2,215
Canola Oil											
Production	391	401	407	417	419	422	427	435	445	454	464
Beginning Stocks	70	112	115	111	114	118	121	122	121	120	118
Domestic Supply	461	513	522	528	533	539	548	557	565	573	581
Consumption	1,359	1,316	1,307	1,373	1,398	1,421	1,435	1,452	1,469	1,486	1,500
Ending Stocks	112	115	111	114	118	121	122	121	120	118	115
Domestic Use	1,471	1,431	1,418	1,487	1,516	1,542	1,557	1,573	1,589	1,603	1,615
Net Trade	-1,010	-918	-895	-959	-983	-1,002	-1,009	-1,015	-1,023	-1,030	-1,034

Note: Rapeseed varieties low in erucic acid and glucosinolates are produced under the name canola in Canada and the U.S. They are equivalent to 00 rapeseed varieties produced elsewhere.

Australian Rapeseed Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Rapeseed											
Area Harvested	1,200	1,204	1,207	1,211		(Thousand Hectares)					
					1,210	1,207	1,203	1,200	1,198	1,195	1,192
Yield	1.17	1.13	1.14	1.15		(Metric Tons per Hectare)					
					1.16	1.17	1.19	1.20	1.21	1.22	1.23
Production	1,400	1,362	1,379	1,396		(Thousand Metric Tons)					
Beginning Stocks	239	329	328	332	1,408	1,418	1,426	1,435	1,446	1,456	1,465
Domestic Supply	1,639	1,691	1,707	1,729	335	337	338	339	341	342	345
Crush	540	551	556	561	568	574	580	585	591	597	602
Other Use	25	25	25	25	25	25	26	26	26	26	26
Ending Stocks	329	328	332	335	337	338	339	341	342	345	347
Domestic Use	894	905	914	921	930	937	945	952	959	967	975
Net Trade	745	786	793	808	813	818	819	823	828	831	835
Rapeseed Meal											
Production	312	319	321	324		(Thousand Metric Tons)					
Beginning Stocks	0	0	0	0	328	332	335	338	342	345	348
Domestic Supply	312	319	321	324	0	0	0	0	0	0	0
Consumption	308	319	321	324		(Metric Tons)					
Ending Stocks	0	0	0	0	328	332	335	338	342	345	348
Domestic Use	308	319	321	324	0	0	0	0	0	0	0
Net Trade	4	0	0	0	0	0	0	0	0	0	0
Rapeseed Oil											
Production	216	221	223	224		(Thousand Metric Tons)					
Beginning Stocks	5	5	5	5	227	230	232	234	236	239	241
Domestic Supply	221	226	227	229	5	5	5	5	5	5	5
Consumption	174	176	179	180		(Metric Tons)					
Ending Stocks	5	5	5	5	182	182	182	183	183	183	183
Domestic Use	179	181	183	185	5	5	5	5	5	5	5
Net Trade	42	45	44	44	186	187	187	188	188	188	188

Canadian Canola Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Canola											
Area Harvested	6,490	6,498	6,465	6,562	6,645	6,702	6,760	6,806	6,847	6,890	6,945
(Metric Tons per Hectare)											
Yield	1.94	1.72	1.74	1.76	1.78	1.80	1.83	1.85	1.87	1.89	1.91
(Thousand Metric Tons)											
Production	12,600	11,165	11,248	11,558	11,847	12,094	12,345	12,577	12,799	13,028	13,283
Beginning Stocks	1,248	2,998	3,112	3,113	3,128	3,141	3,129	3,121	3,126	3,143	3,157
Domestic Supply	13,848	14,163	14,360	14,671	14,976	15,235	15,473	15,698	15,925	16,171	16,439
Crush	4,550	5,070	5,148	5,278	5,419	5,575	5,729	5,861	5,966	6,084	6,198
Other Use	600	629	627	638	648	649	651	656	663	670	677
Ending Stocks	2,998	3,112	3,113	3,128	3,141	3,129	3,121	3,126	3,143	3,157	3,167
Domestic Use	8,148	8,812	8,888	9,044	9,207	9,352	9,502	9,643	9,772	9,911	10,042
Net Trade	5,700	5,351	5,472	5,626	5,769	5,883	5,971	6,055	6,152	6,260	6,397
Canola Meal											
Production	2,700	3,009	3,055	3,132	3,215	3,308	3,400	3,478	3,540	3,610	3,678
Beginning Stocks	67	70	71	71	71	71	71	71	71	71	71
Domestic Supply	2,767	3,079	3,126	3,203	3,287	3,380	3,471	3,549	3,611	3,682	3,749
Consumption	700	787	808	828	839	848	855	861	869	875	881
Ending Stocks	70	71	71	71	71	71	71	71	71	71	71
Domestic Use	770	857	879	899	910	919	926	932	941	947	953
Net Trade	1,997	2,222	2,247	2,304	2,376	2,460	2,545	2,617	2,671	2,735	2,796
Canola Oil											
Production	1,830	2,039	2,071	2,123	2,179	2,242	2,304	2,357	2,399	2,447	2,493
Beginning Stocks	63	73	73	73	73	73	73	72	72	73	73
Domestic Supply	1,893	2,112	2,144	2,196	2,252	2,315	2,377	2,430	2,472	2,520	2,565
Consumption	410	409	411	415	419	421	424	427	431	435	439
Ending Stocks	73	73	73	73	73	73	72	72	73	73	73
Domestic Use	483	482	484	488	492	494	496	500	504	508	512
Net Trade	1,410	1,630	1,660	1,708	1,761	1,821	1,881	1,930	1,968	2,011	2,054

Note: Rapeseed varieties low in erucic acid and glucosinolates are produced under the name canola in Canada and the U.S. They are equivalent to 00 rapeseed varieties produced elsewhere.

Chinese Rapeseed Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Rapeseed											
Area Harvested	6,400	6,655	6,675	6,737	6,677	6,596	6,539	6,486	6,433	6,382	6,327
(Thousand Hectares)											
Yield	1.80	1.87	1.89	1.91	1.93	1.95	1.97	1.99	2.01	2.03	2.05
(Metric Tons per Hectare)											
Production	11,500	12,419	12,592	12,846	12,869	12,846	12,869	12,897	12,922	12,951	12,968
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	11,500	12,419	12,592	12,846	12,869	12,846	12,869	12,897	12,922	12,951	12,968
(Thousand Metric Tons)											
Crush	11,900	12,753	12,902	13,161	13,376	13,537	13,706	13,855	14,013	14,211	14,429
Other Use	649	687	684	696	702	703	705	707	709	711	711
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	12,549	13,441	13,586	13,857	14,078	14,239	14,411	14,562	14,721	14,922	15,140
Net Trade	-1,049	-1,021	-994	-1,012	-1,209	-1,393	-1,542	-1,665	-1,799	-1,971	-2,172
Rapeseed Meal											
Production	7,480	8,016	8,110	8,273	8,408	8,509	8,615	8,709	8,808	8,933	9,069
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	7,480	8,016	8,110	8,273	8,408	8,509	8,615	8,709	8,808	8,933	9,069
Feed Use	7,270	7,469	7,669	7,920	8,082	8,213	8,338	8,465	8,599	8,730	8,859
Industrial Use	310	326	340	353	361	365	368	372	376	380	383
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	7,580	7,796	8,009	8,273	8,443	8,578	8,706	8,837	8,975	9,110	9,242
Net Trade	-100	221	102	0	-36	-69	-91	-128	-167	-177	-173
Rapeseed Oil											
Production	4,225	4,528	4,581	4,673	4,749	4,806	4,866	4,919	4,975	5,046	5,123
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	4,225	4,528	4,581	4,673	4,749	4,806	4,866	4,919	4,975	5,046	5,123
Consumption	4,545	4,699	4,655	4,738	4,824	4,887	4,958	5,024	5,080	5,145	5,198
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	4,545	4,699	4,655	4,738	4,824	4,887	4,958	5,024	5,080	5,145	5,198
Net Trade	-320	-171	-74	-65	-75	-81	-92	-105	-105	-99	-75

European Union Rapeseed Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Rapeseed											
Total Area Harvested	6,250	6,311	6,359	6,469	6,628	6,766	6,887	6,997	7,110	7,226	7,334
(Metric Tons per Hectare)											
Yield	3.06	3.07	3.09	3.11	3.13	3.15	3.16	3.18	3.20	3.22	3.24
(Thousand Metric Tons)											
Production	19,100	19,401	19,661	20,118	20,732	21,285	21,789	22,264	22,753	23,253	23,732
Beginning Stocks	1,009	1,075	1,166	1,152	1,155	1,168	1,175	1,188	1,202	1,213	1,229
Domestic Supply	20,109	20,476	20,827	21,270	21,887	22,453	22,964	23,452	23,954	24,467	24,961
Crush	19,600	19,659	20,329	20,996	21,558	22,059	22,493	22,922	23,366	23,781	24,185
Other Use	884	872	866	871	885	894	906	918	929	942	954
Ending Stocks	1,075	1,166	1,152	1,155	1,168	1,175	1,188	1,202	1,213	1,229	1,242
Domestic Use	21,559	21,697	22,347	23,022	23,610	24,127	24,588	25,041	25,508	25,952	26,381
Net Trade	-1,450	-1,221	-1,520	-1,752	-1,723	-1,674	-1,624	-1,589	-1,554	-1,486	-1,421
Rapeseed Meal											
Production	11,280	11,314	11,699	12,084	12,407	12,695	12,945	13,192	13,447	13,686	13,919
Beginning Stocks	101	126	131	135	137	139	139	140	141	142	144
Domestic Supply	11,381	11,440	11,830	12,219	12,544	12,834	13,084	13,332	13,588	13,829	14,063
Consumption	11,135	11,402	11,778	12,089	12,376	12,636	12,885	13,128	13,382	13,648	13,925
Ending Stocks	126	131	135	137	139	139	140	141	142	144	145
Domestic Use	11,261	11,533	11,913	12,226	12,514	12,775	13,025	13,269	13,524	13,792	14,070
Net Trade	120	-93	-83	-8	30	58	59	63	64	37	-7
Rapeseed Oil											
Production	8,140	8,165	8,443	8,720	8,953	9,161	9,342	9,520	9,704	9,877	10,044
Beginning Stocks	176	204	203	199	197	197	198	199	200	201	203
Domestic Supply	8,316	8,369	8,646	8,919	9,150	9,358	9,539	9,719	9,904	10,078	10,247
Food Use	2,482	2,467	2,427	2,441	2,450	2,454	2,463	2,469	2,472	2,480	2,484
Biodiesel and Industrial Use	5,685	6,139	6,676	6,987	7,250	7,514	7,723	7,926	8,144	8,340	8,558
Other Use	5	5	5	5	5	5	5	5	5	5	5
Ending Stocks	204	203	199	197	197	198	199	200	201	203	204
Domestic Use	8,376	8,813	9,307	9,630	9,903	10,170	10,390	10,600	10,822	11,028	11,251
Net Trade	-60	-445	-662	-711	-753	-812	-851	-881	-918	-950	-1,004

Indian Rapeseed Sector Supply and Utilization

Japanese Rapeseed Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Rapeseed											
Area Harvested	1	1	1	1	1	1	1	1	1	1	1
						(Thousand Hectares)					
Yield	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10
						(Metric Tons per Hectare)					
Production	1	1	1	1	1	1	1	1	1	1	1
Beginning Stocks	140	136	140	138	138	139	139	139	140	140	141
Domestic Supply	141	137	141	139	139	140	140	140	141	141	142
Crush	2,350	2,487	2,479	2,496	2,517	2,531	2,545	2,557	2,566	2,577	2,584
Other Use	5	4	4	4	4	4	4	4	4	4	4
Ending Stocks	136	140	138	138	139	139	139	140	140	141	142
Domestic Use	2,491	2,632	2,621	2,638	2,660	2,674	2,688	2,701	2,711	2,722	2,731
Net Trade	-2,350	-2,495	-2,481	-2,499	-2,521	-2,534	-2,549	-2,561	-2,570	-2,581	-2,588
Rapeseed Meal											
Production	1,334	1,412	1,407	1,417	1,429	1,437	1,444	1,451	1,457	1,463	1,467
Beginning Stocks	26	48	51	54	56	56	56	56	56	57	57
Domestic Supply	1,360	1,460	1,458	1,470	1,484	1,493	1,500	1,507	1,513	1,519	1,524
Consumption	1,345	1,345	1,356	1,373	1,389	1,402	1,408	1,409	1,405	1,404	1,407
Ending Stocks	48	51	54	56	56	56	56	56	57	57	58
Domestic Use	1,393	1,395	1,410	1,428	1,445	1,458	1,464	1,465	1,462	1,461	1,465
Net Trade	-33	64	48	42	39	35	37	42	51	58	60
Rapeseed Oil											
Production	945	1,000	997	1,004	1,012	1,018	1,023	1,028	1,032	1,036	1,039
Beginning Stocks	31	51	49	45	44	43	43	43	43	43	43
Domestic Supply	976	1,051	1,046	1,048	1,056	1,061	1,066	1,071	1,075	1,079	1,082
Consumption	945	1,025	1,025	1,031	1,041	1,049	1,055	1,062	1,068	1,074	1,079
Ending Stocks	51	49	45	44	43	43	43	43	43	43	43
Domestic Use	996	1,073	1,070	1,075	1,084	1,091	1,098	1,105	1,111	1,117	1,122
Net Trade	-20	-22	-24	-26	-28	-30	-32	-34	-36	-38	-40

Other CIS Rapeseed Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/1
Rapeseed											
Area Harvested	989	1,028	1,053	1,076	1,096	1,114	1,133	1,151	1,169	1,187	1,200
(Metric Tons per Hectare)											
Yield	1.41	1.36	1.38	1.40	1.42	1.44	1.45	1.47	1.49	1.51	1.5
(Thousand Metric Tons)											
Production	1,390	1,403	1,455	1,507	1,554	1,600	1,647	1,694	1,742	1,791	1,840
Beginning Stocks	144	147	155	156	157	159	159	160	161	162	16
Domestic Supply	1,534	1,550	1,610	1,663	1,712	1,759	1,806	1,854	1,903	1,952	2,00
Crush	790	817	836	858	879	900	920	939	959	978	99
Other Use	40	43	45	46	47	48	49	50	51	53	5
Ending Stocks	147	155	156	157	159	159	160	161	162	163	16
Domestic Use	977	1,015	1,037	1,061	1,085	1,107	1,129	1,151	1,172	1,193	1,21
Net Trade	557	535	573	602	627	652	677	703	731	760	78
Rapeseed Meal											
Production	469	485	496	509	522	534	546	558	569	580	59
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	469	485	496	509	522	534	546	558	569	580	59
Consumption	358	370	376	382	387	391	395	399	403	408	41
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	358	370	376	382	387	391	395	399	403	408	41
Net Trade	111	115	120	127	135	143	151	159	166	172	17
Rapeseed Oil											
Production	308	318	326	334	343	351	359	366	374	381	38
Beginning Stocks	32	31	31	31	31	31	31	31	31	31	3
Domestic Supply	340	349	357	365	374	382	390	397	405	412	41
Consumption	254	232	232	232	233	233	234	235	235	236	23
Ending Stocks	31	31	31	31	31	31	31	31	31	31	3
Domestic Use	285	263	263	263	264	264	265	266	266	267	26
Net Trade	55	87	94	102	110	117	125	131	138	145	15

Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

Ukrainian Rapeseed Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Rapeseed											
Area Harvested	1,400	1,529	1,619	1,681	1,724	1,753	1,773	1,786	1,795	1,801	1,805
(Metric Tons per Hectare)											
Yield	2.00	1.94	1.96	1.98	2.00	2.02	2.04	2.06	2.08	2.10	2.12
(Thousand Metric Tons)											
Production	2,800	2,967	3,173	3,330	3,449	3,543	3,618	3,681	3,736	3,785	3,830
Beginning Stocks	2	140	140	140	140	140	140	140	140	140	140
Domestic Supply	2,802	3,107	3,313	3,470	3,589	3,683	3,758	3,821	3,876	3,925	3,970
Crush	400	429	455	481	505	530	554	577	600	623	645
Other Use	15	15	15	15	15	15	16	16	16	16	16
Ending Stocks	140	140	140	140	140	140	140	140	140	140	140
Domestic Use	555	584	610	636	661	685	709	733	756	779	801
Net Trade	2,247	2,523	2,703	2,834	2,928	2,998	3,049	3,088	3,120	3,146	3,169
Rapeseed Meal											
Production	226	242	257	272	286	299	313	326	339	352	365
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	226	242	257	272	286	299	313	326	339	352	365
Consumption	166	168	168	169	170	171	171	171	172	172	173
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	166	168	168	169	170	171	171	171	172	172	173
Net Trade	60	74	89	102	115	129	142	155	167	180	192
Rapeseed Oil											
Production	158	169	180	190	200	209	219	228	237	246	255
Beginning Stocks	9	6	6	6	6	6	6	6	6	6	6
Domestic Supply	167	175	186	196	206	215	224	234	243	252	260
Consumption	101	100	100	100	100	100	100	99	99	99	99
Ending Stocks	6	6	6	6	6	6	6	6	6	6	6
Domestic Use	107	106	106	106	106	106	105	105	105	105	104
Net Trade	60	69	80	90	100	110	119	129	138	147	156

Rest-of-World Rapeseed Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Rapeseed											
Area Harvested	725	699	698	715		(Thousand Hectares)					
					722	728	734	740	746	753	759
Yield	0.99	1.04	1.06	1.07		(Metric Tons per Hectare)					
					1.09	1.10	1.12	1.14	1.15	1.17	1.18
Production	719	727	737	766	786	803	823	841	860	880	898
Beginning Stocks	53	107	91	90	90	91	91	92	93	93	94
Domestic Supply	771	834	829	856	876	895	914	933	953	973	993
Crush	3,963	4,163	4,278	4,376	4,465	4,549	4,625	4,700	4,777	4,849	4,920
Other Use	107	100	102	103	103	103	103	103	103	102	102
Ending Stocks	107	91	90	90	91	91	92	93	93	94	95
Domestic Use	4,178	4,355	4,470	4,570	4,659	4,743	4,820	4,896	4,973	5,045	5,117
Net Trade	-3,407	-3,520	-3,641	-3,714	-3,783	-3,849	-3,906	-3,963	-4,020	-4,072	-4,124
Rapeseed Meal											
Production	2,316	2,432	2,500	2,557	2,609	2,658	2,702	2,746	2,791	2,833	2,875
Beginning Stocks	68	64	72	77	81	83	84	84	85	87	89
Domestic Supply	2,384	2,496	2,571	2,634	2,690	2,741	2,786	2,831	2,877	2,920	2,964
Consumption	3,161	3,458	3,595	3,749	3,882	4,011	4,139	4,261	4,381	4,501	4,622
Ending Stocks	64	72	77	81	83	84	84	85	87	89	91
Domestic Use	3,224	3,530	3,671	3,830	3,965	4,095	4,223	4,347	4,468	4,590	4,713
Net Trade	-841	-1,034	-1,100	-1,196	-1,275	-1,354	-1,437	-1,516	-1,591	-1,670	-1,749
Rapeseed Oil											
Production	1,548	1,626	1,671	1,709	1,744	1,777	1,806	1,836	1,866	1,894	1,922
Beginning Stocks	54	60	65	62	62	62	62	62	63	63	63
Domestic Supply	1,602	1,685	1,736	1,772	1,806	1,839	1,868	1,898	1,928	1,957	1,985
Consumption	1,578	1,696	1,710	1,748	1,786	1,822	1,862	1,902	1,941	1,984	2,024
Ending Stocks	60	65	62	62	62	62	62	63	63	63	64
Domestic Use	1,638	1,761	1,772	1,810	1,848	1,884	1,925	1,965	2,004	2,047	2,088
Net Trade	-35	-76	-36	-38	-42	-45	-56	-67	-75	-90	-103

World Sunflower Seed and Sunflower Seed Products

The sunflower seed price decreases in line with other commodities in 2008/09. It declines again next season because of large carryovers. Thereafter, the world price strengthens slightly and remains stable with relatively high values. The sunflower meal price declines 30% this season because of strong supplies and weakening demand from the livestock sector. The price weakens throughout the decade, returning to its historical order below the rapeseed meal price by the end of the outlook. The sunflower oil price declines 40% in 2008/09 because of the economic slowdown and strong supplies. The price stays close to that of other vegetable oils for the remainder of the decade.

The world sunflower crop increased by 33% in 2008/09, despite the 22% plunge in Argentina, because of soaring production levels in the EU, Ukraine, and Other CIS. Production grows about 1% annually throughout the outlook period. World sunflower net trade spikes 93.1% in 2008/09 because of the large supplies. Total net trade expands 52%, to 1.6 mmt, over the next decade. Ukraine and Other CIS account for almost 80% of world net exports by 2018/19. Argentina's share of world net exports averages 10% during the outlook period.

World sunflower meal production increases steadily, from the current level of 12.6 mmt to 14.1 mmt by 2018/19. Consumption develops at an annual rate of 1.3% over the outlook period. World net trade in sunflower meal grows by 5%, to 3.4 mmt. Similar development can be seen in the sunflower oil market. World production increased by 18% in 2008/09, and it expands an additional 13% by the end of the outlook. Net trade expands to 4.5 mmt. The average world per capita consumption increases 0.9% annually over the next 10 years. For both sunflower meal and oil, Argentina and Ukraine are the dominant exporters while the EU remains the most significant buyer in the international market.

Weaker competition for area from coarse grains increased sunflower harvested area in Ukraine and Other CIS by 18.5% in 2008/09. Area stabilized at high levels in response to relatively strong prices through the remainder of the projection period. With the increases in yields, sunflower production reaches 15.6 mmt by 2018/19. Ukraine and Other CIS maintain their position as the largest sunflower producers, holding a 43% share of world production over the next decade. The share of domestically crushed seeds surpasses 85% over the next decade in these countries.

Argentine sunflower production decreased 22% in 2008/09 as area and yields suffered from competition with other crops and dry weather. Argentina remains a significant producer in the world, contributing 5.4 mmt by 2018/19. More than 95% of production is used domestically by an export-oriented crushing industry. The differential export tax encourages producers to export more derived products other than sunflower seeds. Argentina exports more than 64% of its sunflower meal production and about 78% of its sunflower oil production throughout the baseline. Argentina holds a 37% share of world sunflower oil net exports, second only to the 41% share of Ukraine.

EU sunflower area recovered by 8% in 2008/09 because of weaker competition from coarse grains. Increasing area and strong yields facilitated by propitious weather raised production by 46% this season. Both yield and area retreat from the current highs next season, and total production reaches 6.4 mmt over the outlook period. Domestic consumption growth of sunflower oil for food and industrial uses outpaced production expansion, generating an increase in demand for imports. Sunflower oil net imports grow 33% over the outlook period. The EU remains the leading sunflower meal and oil net importer, accounting for 49% and 37% of these world markets, respectively.

Sunflower Seed Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Argentina	75	16	188	196	189	171	161	154	149	143	135
China	113	82	104	116	126	140	151	161	169	176	180
Other CIS †	293	297	356	374	387	404	425	450	477	506	536
Ukraine	445	350	463	505	531	557	587	614	639	664	692
United States	119	132	131	122	115	107	104	93	78	61	43
Total Net Exports *	1,045	877	1,241	1,313	1,348	1,378	1,427	1,472	1,512	1,550	1,587
Net Importers											
European Union	250	93	183	210	180	154	158	164	169	176	182
Rest of World	428	417	690	736	801	857	902	940	977	1,007	1,038
Residual	367	367	367	367	367	367	367	367	367	367	367
Total Net Imports	1,045	877	1,241	1,313	1,348	1,378	1,427	1,472	1,512	1,550	1,587
Price											
CIF Lower Rhine	509	469	491	490	492	496	502	503	502	500	497

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

Sunflower Meal Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Argentina	1,200	1,167	1,185	1,215	1,243	1,270	1,295	1,319	1,345	1,371	1,399
Other CIS †	392	457	439	433	437	446	442	425	413	398	381
Ukraine	1,620	1,546	1,555	1,546	1,544	1,545	1,550	1,559	1,569	1,581	1,592
United States	14	14	14	14	14	14	14	14	14	14	14
Total Net Exports *	3,226	3,184	3,193	3,208	3,237	3,275	3,301	3,317	3,341	3,364	3,386
Net Importers											
China	5	5	5	5	5	5	5	5	5	5	5
European Union	1,602	1,607	1,678	1,654	1,656	1,663	1,667	1,655	1,651	1,646	1,644
Rest of World	1,354	1,308	1,245	1,285	1,312	1,342	1,364	1,392	1,420	1,447	1,472
Residual	265	265	265	265	265	265	265	265	265	265	265
Total Net Imports	3,226	3,184	3,193	3,208	3,237	3,275	3,301	3,317	3,341	3,364	3,386
Price											
CIF Rotterdam	210	204	198	191	189	189	191	190	186	181	177

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

Sunflower Oil Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Argentina	1,385	1,365	1,395	1,435	1,469	1,502	1,532	1,563	1,599	1,632	1,669
Other CIS †	450	551	565	595	635	678	723	767	809	854	897
Ukraine	1,580	1,798	1,810	1,810	1,810	1,812	1,816	1,827	1,838	1,851	1,865
United States	25	43	39	37	41	44	48	54	62	71	79
Total Net Exports *	3,440	3,756	3,809	3,878	3,955	4,035	4,119	4,211	4,307	4,408	4,510
Net Importers											
China	15	21	32	49	65	78	90	103	116	129	142
European Union	1,255	1,437	1,511	1,517	1,531	1,548	1,568	1,591	1,616	1,643	1,672
Rest of World	1,655	1,783	1,750	1,797	1,845	1,895	1,946	2,002	2,060	2,121	2,181
Residual	515	515	515	515	515	515	515	515	515	515	515
Total Net Imports	3,440	3,756	3,809	3,878	3,955	4,035	4,119	4,211	4,307	4,408	4,510
Price											
FOB NW Europe	999	1,029	1,097	1,140	1,172	1,205	1,236	1,263	1,292	1,316	1,340

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

World Sunflower Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sunflower Seed											
Area Harvested	23,822	23,718	23,889	24,148	24,278	24,399	24,499	24,622	24,753	24,889	25,019
(Thousand Hectares)											
Production	33,421	32,145	32,692	33,332	33,804	34,258	34,671	35,120	35,583	36,054	36,519
Beginning Stocks	2,779	3,850	3,902	3,913	3,948	3,972	3,991	4,007	4,026	4,044	4,065
Domestic Supply	36,200	35,995	36,594	37,245	37,752	38,230	38,662	39,127	39,609	40,098	40,584
Crush	28,566	28,287	28,832	29,389	29,831	30,255	30,643	31,055	31,485	31,916	32,348
Other Use	3,417	3,439	3,482	3,542	3,582	3,617	3,645	3,678	3,713	3,750	3,785
Residual	367	367	367	367	367	367	367	367	367	367	367
Ending Stocks	3,850	3,902	3,913	3,948	3,972	3,991	4,007	4,026	4,044	4,065	4,084
Domestic Use	36,200	35,995	36,594	37,245	37,752	38,230	38,662	39,127	39,609	40,098	40,584
Trade *	1,045	877	1,241	1,313	1,348	1,378	1,427	1,472	1,512	1,550	1,587
Sunflower Meal											
Production	12,567	12,408	12,634	12,878	13,067	13,246	13,408	13,580	13,760	13,940	14,121
Consumption	12,184	12,137	12,362	12,608	12,799	12,979	13,141	13,312	13,492	13,673	13,854
Ending Stocks	320	326	333	338	341	344	346	348	351	354	357
Trade *	3,226	3,184	3,193	3,208	3,237	3,275	3,301	3,317	3,341	3,364	3,386
Sunflower Oil											
Production	11,674	11,538	11,759	11,986	12,167	12,340	12,499	12,668	12,845	13,022	13,200
Consumption	10,710	11,027	11,247	11,473	11,651	11,824	11,982	12,151	12,328	12,505	12,683
Ending Stocks	940	937	933	931	932	934	936	939	940	943	945
Trade *	3,440	3,756	3,809	3,878	3,955	4,035	4,119	4,211	4,307	4,408	4,510
Per Capita Consumption	1.58	1.61	1.62	1.63	1.64	1.64	1.65	1.65	1.66	1.67	1.67
(Kilograms)											

* Excludes intraregional trade.

U.S. Sunflower Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sunflower Seed						(Thousand Hectares)					
Area Harvested	965	817	802	819	817	811	810	810	815	818	822
Yield	1.62	1.58	1.60	1.62	1.63	1.65	1.66	1.68	1.70	1.71	1.73
Production	1,567	1,293	1,282	1,324	1,333	1,336	1,348	1,362	1,384	1,403	1,423
Beginning Stocks	120	199	171	163	173	176	177	177	176	179	180
Domestic Supply	1,687	1,492	1,453	1,487	1,505	1,512	1,525	1,538	1,560	1,582	1,603
Crush	710	685	671	676	683	688	699	722	749	778	810
Food	638	571	562	577	580	581	583	584	589	592	596
Ending Stocks	199	171	163	173	176	177	177	176	179	180	182
Domestic Use	1,547	1,426	1,397	1,426	1,439	1,446	1,458	1,482	1,516	1,551	1,588
Net Trade	140	65	56	62	66	66	66	56	44	31	15
Sunflower Meal											
Production	350	337	331	333	337	339	344	356	369	384	399
Beginning Stocks	5	5	5	5	5	5	5	5	5	5	5
Domestic Supply	354	342	335	338	341	344	349	360	373	388	404
Consumption	335	322	316	318	322	324	329	341	354	369	384
Ending Stocks	5	5	5	5	5	5	5	5	5	5	5
Domestic Use	339	327	320	323	326	329	334	345	358	373	389
Net Trade	15	15	15	15	15	15	15	15	15	15	15
Sunflower Oil											
Production	308	297	291	293	297	299	303	313	325	338	352
Beginning Stocks	29	42	37	36	37	37	37	37	37	38	38
Domestic Supply	337	339	329	329	333	336	341	351	362	375	390
Consumption	302	318	322	329	333	337	339	343	347	351	356
Ending Stocks	42	37	36	37	37	37	37	37	38	38	38
Domestic Use	344	356	358	366	370	374	377	381	385	389	394
Net Trade	-7	-17	-29	-36	-37	-38	-36	-30	-22	-14	-4

Argentine Sunflower Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sunflower Seed											
Area Harvested	2,100	2,468	2,601	2,658							
(Thousand Hectares)											
Yield	1.73	1.77	1.78	1.79	1.81	1.82	1.83	1.84	1.85	1.86	1.88
Production	3,630	4,370	4,636	4,769	4,858	4,932	5,008	5,093	5,185	5,278	5,370
Beginning Stocks	1,861	1,028	1,055	1,055	1,066	1,074	1,080	1,085	1,092	1,097	1,103
Domestic Supply	5,491	5,398	5,691	5,824	5,923	6,005	6,088	6,178	6,277	6,375	6,473
Crush	4,300	4,254	4,340	4,452	4,549	4,642	4,727	4,816	4,914	5,009	5,109
Other Use	88	73	108	110	112	113	114	116	117	119	120
Ending Stocks	1,028	1,055	1,055	1,066	1,074	1,080	1,085	1,092	1,097	1,103	1,107
Domestic Use	5,416	5,382	5,503	5,628	5,734	5,835	5,927	6,024	6,128	6,231	6,337
Net Trade	75	16	188	196	189	171	161	154	149	143	135
Sunflower Meal											
Production	1,815	1,796	1,832	1,879	1,920	1,959	1,995	2,033	2,074	2,114	2,157
Beginning Stocks	102	105	106	108	110	111	112	112	113	114	115
Domestic Supply	1,917	1,901	1,938	1,988	2,030	2,070	2,107	2,145	2,187	2,228	2,271
Consumption	612	627	645	663	676	689	700	713	728	743	757
Ending Stocks	105	106	108	110	111	112	112	113	114	115	116
Domestic Use	717	733	754	773	787	800	813	827	842	857	872
Net Trade	1,200	1,167	1,185	1,215	1,243	1,270	1,295	1,319	1,345	1,371	1,399
Sunflower Oil											
Production	1,785	1,766	1,802	1,848	1,888	1,927	1,962	1,999	2,040	2,080	2,121
Beginning Stocks	44	47	47	46	46	47	47	47	47	47	47
Domestic Supply	1,829	1,813	1,848	1,895	1,935	1,974	2,009	2,046	2,087	2,127	2,168
Consumption	397	401	407	413	419	425	430	436	441	447	453
Ending Stocks	47	47	46	46	47	47	47	47	47	47	47
Domestic Use	444	448	453	460	466	471	477	483	488	494	500
Net Trade	1,385	1,365	1,395	1,435	1,469	1,502	1,532	1,563	1,599	1,632	1,669

Chinese Sunflower Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sunflower Seed											
Area Harvested	850	848	856	858		(Thousand Hectares)					
					856	859	859	860	859	858	856
Yield	1.76	1.78	1.79	1.80		(Metric Tons per Hectare)					
					1.81	1.82	1.84	1.85	1.86	1.87	1.88
Production	1,500	1,507	1,531	1,544		(Thousand Metric Tons)					
Beginning Stocks	0	0	0	0	1,552	1,567	1,579	1,590	1,599	1,607	1,613
Domestic Supply	1,500	1,507	1,531	1,544	1,552	1,567	1,579	1,590	1,599	1,607	1,613
Crush	642	650	649	642	632	628	625	621	616	613	611
Food Use	650	677	680	687	694	699	703	708	713	718	722
Other Use	95	97	99	100	100	100	100	100	100	100	100
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1,387	1,425	1,428	1,428	1,426	1,427	1,428	1,429	1,430	1,431	1,433
Net Trade	113	82	104	116	126	140	151	161	169	176	180
Sunflower Meal											
Production	350	354	354	350	345	342	341	338	336	334	333
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	350	354	354	350	345	342	341	338	336	334	333
Feed Use	315	317	314	308	300	296	292	288	283	279	276
Industrial Use	40	42	45	47	50	52	53	55	58	60	62
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	355	359	359	355	350	347	346	343	341	339	338
Net Trade	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
Sunflower Oil											
Production	230	233	233	230	226	225	224	222	221	220	219
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	230	233	233	230	226	225	224	222	221	220	219
Consumption	245	254	265	278	291	303	313	325	337	349	361
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	245	254	265	278	291	303	313	325	337	349	361
Net Trade	-15	-21	-32	-49	-65	-78	-90	-103	-116	-129	-142

European Union Sunflower Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sunflower Seed											
Total Area Harvested	3,700	3,453	3,355	3,389	3,423	3,443	3,434	3,427	3,421	3,413	3,403
(Metric Tons per Hectare)											
Yield	1.88	1.75	1.77	1.78	1.80	1.81	1.83	1.84	1.86	1.87	1.89
(Thousand Metric Tons)											
Production	6,950	6,053	5,931	6,041	6,153	6,241	6,274	6,313	6,352	6,388	6,420
Beginning Stocks	211	1,015	1,041	1,044	1,048	1,053	1,058	1,063	1,069	1,075	1,082
Domestic Supply	7,161	7,068	6,971	7,085	7,201	7,294	7,332	7,376	7,421	7,463	7,502
Crush	5,719	5,434	5,427	5,554	5,624	5,676	5,707	5,742	5,777	5,810	5,839
Other Use	677	687	684	693	704	713	720	729	738	747	756
Ending Stocks	1,015	1,041	1,044	1,048	1,053	1,058	1,063	1,069	1,075	1,082	1,089
Domestic Use	7,411	7,162	7,155	7,295	7,381	7,448	7,490	7,540	7,590	7,640	7,684
Net Trade	-250	-93	-183	-210	-180	-154	-158	-164	-169	-176	-182
Sunflower Meal											
Production	3,130	2,974	2,970	3,040	3,078	3,107	3,124	3,143	3,162	3,180	3,195
Beginning Stocks	75	140	142	146	147	149	150	150	152	153	155
Domestic Supply	3,205	3,114	3,113	3,185	3,225	3,255	3,273	3,293	3,313	3,333	3,350
Consumption	4,667	4,579	4,645	4,692	4,733	4,769	4,790	4,797	4,811	4,825	4,838
Ending Stocks	140	142	146	147	149	150	150	152	153	155	156
Domestic Use	4,807	4,721	4,791	4,839	4,881	4,919	4,940	4,949	4,964	4,979	4,994
Net Trade	-1,602	-1,607	-1,678	-1,654	-1,656	-1,663	-1,667	-1,655	-1,651	-1,646	-1,644
Sunflower Oil											
Production	2,270	2,157	2,154	2,204	2,232	2,253	2,265	2,279	2,293	2,306	2,317
Beginning Stocks	80	255	255	255	252	253	253	255	257	258	260
Domestic Supply	2,350	2,412	2,410	2,459	2,485	2,506	2,519	2,534	2,549	2,564	2,578
Food Use	2,995	3,096	3,152	3,199	3,233	3,267	3,296	3,328	3,360	3,392	3,424
Biodiesel and Industrial Use	353	496	512	523	527	531	534	539	546	553	561
Other Use	2	2	2	2	2	2	2	2	2	2	2
Ending Stocks	255	255	255	252	253	253	255	257	258	260	262
Domestic Use	3,605	3,849	3,921	3,977	4,015	4,054	4,086	4,125	4,166	4,207	4,249
Net Trade	-1,255	-1,437	-1,511	-1,517	-1,531	-1,548	-1,568	-1,591	-1,616	-1,643	-1,672

Other CIS Sunflower Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sunflower Seed											
Area Harvested	6,550	6,674	6,735	6,809	6,874	6,940	7,008	7,079	7,150	7,222	7,294
Yield	1.23	1.18	1.19	1.21	1.22	1.23	1.24	1.25	1.27	1.28	1.29
Production	8,065	7,886	8,040	8,211	8,372	8,537	8,705	8,880	9,056	9,235	9,414
Beginning Stocks	294	688	702	707	710	713	714	716	717	719	721
Domestic Supply	8,359	8,574	8,743	8,919	9,083	9,250	9,420	9,595	9,773	9,954	10,135
Crush	6,648	6,808	6,918	7,067	7,211	7,356	7,500	7,644	7,790	7,936	8,082
Other Use	730	767	761	767	772	776	779	783	787	791	795
Ending Stocks	688	702	707	710	713	714	716	717	719	721	722
Domestic Use	8,066	8,278	8,386	8,545	8,696	8,846	8,995	9,145	9,296	9,448	9,599
Net Trade	293	297	356	374	387	404	425	450	477	506	536
Sunflower Meal											
Production	2,484	2,544	2,585	2,641	2,694	2,749	2,802	2,856	2,911	2,965	3,020
Beginning Stocks	4	39	40	41	41	41	41	41	42	42	42
Domestic Supply	2,488	2,583	2,625	2,681	2,735	2,790	2,844	2,898	2,952	3,007	3,062
Consumption	2,057	2,086	2,145	2,207	2,258	2,303	2,360	2,431	2,498	2,568	2,638
Ending Stocks	39	40	41	41	41	41	41	42	42	42	42
Domestic Use	2,096	2,126	2,185	2,248	2,299	2,344	2,401	2,472	2,540	2,610	2,680
Net Trade	392	457	439	433	437	446	442	425	413	398	381
Sunflower Oil											
Production	2,750	2,794	2,839	2,900	2,959	3,018	3,077	3,137	3,196	3,256	3,316
Beginning Stocks	197	215	217	218	218	219	219	219	219	220	220
Domestic Supply	2,947	3,009	3,056	3,118	3,177	3,237	3,296	3,356	3,416	3,476	3,536
Consumption	2,282	2,241	2,272	2,304	2,324	2,340	2,354	2,369	2,387	2,402	2,419
Ending Stocks	215	217	218	218	219	219	219	219	220	220	220
Domestic Use	2,497	2,458	2,490	2,523	2,542	2,559	2,574	2,589	2,607	2,622	2,639
Net Trade	450	551	565	595	635	678	723	767	809	854	897

Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

Ukrainian Sunflower Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sunflower Seed											
Area Harvested	4,100	4,037	4,082	4,089	4,080	4,073	4,070	4,073	4,076	4,082	4,092
(Thousand Hectares)											
Yield	1.54	1.40	1.42	1.44	1.45	1.47	1.48	1.50	1.51	1.53	1.55
(Metric Tons per Hectare)											
Production	6,300	5,671	5,811	5,884	5,933	5,984	6,042	6,107	6,174	6,246	6,322
Beginning Stocks	75	463	467	467	469	470	472	472	473	474	475
Domestic Supply	6,375	6,134	6,278	6,351	6,402	6,455	6,514	6,579	6,647	6,720	6,797
(Thousand Metric Tons)											
Crush	5,400	5,249	5,279	5,307	5,328	5,354	5,381	5,419	5,460	5,506	5,554
Other Use	67	69	70	71	72	72	73	74	74	75	75
Ending Stocks	463	467	467	469	470	472	472	473	474	475	475
Domestic Use	5,930	5,785	5,815	5,846	5,870	5,898	5,927	5,966	6,009	6,056	6,105
Net Trade	445	350	463	505	531	557	587	614	639	664	692
Sunflower Meal											
Production	2,247	2,184	2,196	2,208	2,217	2,228	2,239	2,255	2,272	2,291	2,311
Beginning Stocks	5	20	21	22	23	23	24	24	25	25	25
Domestic Supply	2,252	2,204	2,218	2,230	2,240	2,251	2,263	2,279	2,297	2,316	2,336
Consumption	612	637	640	661	672	682	689	695	703	710	719
Ending Stocks	20	21	22	23	23	24	24	25	25	25	25
Domestic Use	632	658	662	684	696	706	713	720	728	735	744
Net Trade	1,620	1,546	1,555	1,546	1,544	1,545	1,550	1,559	1,569	1,581	1,592
Sunflower Oil											
Production	2,285	2,221	2,234	2,245	2,255	2,265	2,277	2,293	2,310	2,330	2,350
Beginning Stocks	42	246	246	244	243	243	243	243	242	241	241
Domestic Supply	2,327	2,467	2,480	2,489	2,498	2,508	2,520	2,536	2,553	2,571	2,591
Consumption	501	423	426	436	445	454	461	467	473	479	486
Ending Stocks	246	246	244	243	243	243	243	242	241	241	240
Domestic Use	747	669	670	679	688	697	704	709	715	720	726
Net Trade	1,580	1,798	1,810	1,810	1,810	1,812	1,816	1,827	1,838	1,851	1,865

Rest-of-World Sunflower Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sunflower Seed											
Area Harvested	5,552	5,354	5,351	5,421	5,436	5,455	5,478	5,507	5,538	5,573	5,604
(Thousand Hectares)											
Yield	0.98	0.98	0.99	0.99	1.00	1.01	1.01	1.02	1.02	1.03	1.04
(Metric Tons per Hectare)											
Production	5,423	5,262	5,291	5,393	5,440	5,492	5,548	5,611	5,675	5,744	5,810
Beginning Stocks	218	445	457	456	459	462	464	465	468	471	474
Domestic Supply	5,641	5,706	5,749	5,848	5,899	5,953	6,012	6,076	6,143	6,215	6,284
(Thousand Metric Tons)											
Crush	5,168	5,199	5,513	5,641	5,743	5,842	5,934	6,024	6,113	6,200	6,285
Other Use	457	467	470	485	495	505	514	525	536	548	560
Ending Stocks	445	457	456	459	462	464	465	468	471	474	477
Domestic Use	6,069	6,123	6,439	6,584	6,700	6,811	6,913	7,017	7,120	7,222	7,322
Net Trade	-428	-417	-690	-736	-801	-857	-902	-940	-977	-1,007	-1,038
Sunflower Meal											
Production	2,202	2,215	2,349	2,403	2,447	2,489	2,528	2,566	2,604	2,641	2,678
Beginning Stocks	11	11	12	12	12	12	12	13	13	13	13
Domestic Supply	2,213	2,226	2,360	2,415	2,459	2,501	2,540	2,579	2,617	2,654	2,690
Consumption	3,556	3,522	3,593	3,687	3,758	3,831	3,892	3,958	4,024	4,088	4,150
Ending Stocks	11	12	12	12	12	12	13	13	13	13	13
Domestic Use	3,567	3,534	3,605	3,700	3,770	3,843	3,904	3,971	4,036	4,101	4,163
Net Trade	-1,354	-1,308	-1,245	-1,285	-1,312	-1,342	-1,364	-1,392	-1,420	-1,447	-1,472
Sunflower Oil											
Production	2,055	2,067	2,192	2,243	2,284	2,323	2,360	2,395	2,431	2,465	2,499
Beginning Stocks	116	151	151	150	149	149	149	149	150	150	150
Domestic Supply	2,171	2,218	2,343	2,392	2,433	2,472	2,509	2,545	2,581	2,615	2,650
Consumption	3,675	3,850	3,944	4,040	4,129	4,218	4,306	4,397	4,490	4,586	4,680
Ending Stocks	151	151	150	149	149	149	149	150	150	150	151
Domestic Use	3,826	4,001	4,093	4,189	4,278	4,367	4,455	4,547	4,640	4,736	4,831
Net Trade	-1,655	-1,783	-1,750	-1,797	-1,845	-1,895	-1,946	-2,002	-2,060	-2,121	-2,181

World Palm Oil and Palm Kernel Products

The global economic slowdown and high carryover pull the world palm oil price down 40% from the record high in 2007/08. Over the remaining projection period, the palm oil price recovers along with the other vegetable oil prices and hits \$931 per mt by 2018/19. Despite a 46% price increase over the outlook period, palm oil remains the lowest-cost and most traded oil compared with other vegetable oils.

Malaysia and Indonesia are the major producers of palm oil and related products, together accounting for about 88% of total world palm oil production. Indonesia maintains its leading position in world palm oil production. Driven by the firming world price, Indonesia's palm kernel harvested area increases by 28%, raising its production to 28.1 mmt over the baseline. Its net exports increase more than 53%, reaching 22.3 mmt by 2018/19. Malaysia has less potential in area expansion, so yield improvement is the key factor for the country's production growth. Its palm oil production increases to 23 mmt in 2018/19 and net exports reach 18.2 mmt. Although both countries have ambitious plans for promoting their biodiesel industries, the increasing palm oil price and competition from other countries slows the development of this emerging sector.

Although world exports are dominated by two countries, importers are diverse. Major importers of palm oil include China, India, and the EU. China, the leading palm oil consumer, depends heavily on imports to meet its demand, as it does not produce large quantities of the vegetable oil. Its palm oil net imports increase by 60% over the decade, reaching 9.1 mmt by 2018/19. Palm oil used for food consumption accounts for 60% of China's total palm oil net imports over the outlook period. China's per capita food use consumption increases by 28% over the period, reaching 3.63 kg by 2018/19. Industrial use for palm oil rises by 92% over the decade, as demand for processed food skyrockets in China.

In 2008/09, India consumes 4.9 mmt of palm oil, primarily supported by imports. Population and income growth causes palm oil consumption in India to expand, driving imports up to 6.7 mmt by 2018/19. Per capita consumption increases 2.1% annually, reaching 5.1 kg by the end of the outlook. The EU also depends on imports to maintain its palm oil consumption, which grows about 20% over the projection period. Because rapeseed oil, the major vegetable oil in the EU, is primarily used for biodiesel production, the low-cost palm oil becomes a preferred substitute for other industrial uses. Palm oil net imports in the ROW expand to 19.8 mmt by 2018/19 and are primarily used for food consumption.

World palm kernel oil production expands 38%, and net trade reaches 2.8 mmt over the baseline. Indonesia is by far the largest net exporter by 2018/19, supplying almost 84% of world net exports. Malaysia supplies the remainder. The EU, accounting for more than 25% of world net imports, maintains its position as the dominant net importer of palm kernel oil. However, that position is challenged by China by the end of the outlook.

The EU is also the leading importer of world palm kernel meal, accounting for 56% of world imports in 2008/09. However, the share of EU net imports declines to 48% over the projection period, although the level of net imports increases 19%. Because of the lower price, net imports of palm kernel meal in the ROW are expected to reach 3.0 mmt over the baseline.

Palm Sector Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Palm Oil											
Net Exporters											
(Thousand Metric Tons)											
Malaysia	13,860	14,338	14,695	15,054	15,428	15,851	16,286	16,745	17,233	17,735	18,245
Indonesia	14,580	15,734	16,453	17,141	17,812	18,501	19,207	19,937	20,697	21,479	22,279
Total Net Exports *	28,440	30,072	31,148	32,195	33,240	34,352	35,492	36,682	37,930	39,215	40,523
Net Importers											
China	5,700	6,080	6,327	6,602	6,887	7,201	7,533	7,891	8,274	8,681	9,107
European Union	3,810	3,818	3,895	3,957	4,024	4,099	4,173	4,247	4,325	4,403	4,487
India	4,895	5,112	5,273	5,451	5,618	5,793	5,972	6,157	6,349	6,537	6,728
Rest of World	13,610	14,636	15,229	15,759	16,287	16,834	17,390	17,962	18,557	19,169	19,776
Residual	425	425	425	425	425	425	425	425	425	425	425
Total Net Imports	28,440	30,072	31,148	32,195	33,240	34,352	35,492	36,682	37,930	39,215	40,523
Palm Kernel Meal											
Net Exporters											
Indonesia	2,232	2,331	2,443	2,543	2,639	2,734	2,831	2,928	3,027	3,129	3,234
Malaysia	2,115	2,170	2,208	2,243	2,282	2,325	2,370	2,417	2,465	2,516	2,566
Total Net Exports *	4,392	4,546	4,696	4,831	4,966	5,104	5,245	5,390	5,538	5,689	5,845
Net Importers											
European Union	2,450	2,517	2,541	2,566	2,600	2,636	2,675	2,714	2,756	2,801	2,848
Rest of World	1,942	2,030	2,154	2,264	2,366	2,468	2,571	2,675	2,781	2,889	2,997
Residual	-45	-45	-45	-45	-45	-45	-45	-45	-45	-45	-45
Total Net Imports	4,392	4,546	4,696	4,831	4,966	5,104	5,245	5,390	5,538	5,689	5,845
Palm Kernel Oil											
Net Exporters											
Indonesia	1,532	1,631	1,725	1,809	1,889	1,968	2,042	2,119	2,198	2,280	2,362
Malaysia	530	591	584	564	542	525	509	491	479	466	455
Total Net Exports *	2,062	2,221	2,309	2,373	2,431	2,493	2,551	2,610	2,677	2,746	2,817
Net Importers											
China	380	431	452	475	499	523	547	573	601	631	660
European Union	615	619	632	640	646	655	661	669	677	687	696
Rest of World	689	793	847	880	908	937	964	989	1,020	1,051	1,083
Residual	378	378	378	378	378	378	378	378	378	378	378
Total Net Imports	2,062	2,221	2,309	2,373	2,431	2,493	2,551	2,610	2,677	2,746	2,817
CIF Rotterdam Prices											
Palm Oil	639	659	706	743	772	800	826	852	879	905	931

* Total net exports are the sum of all positive net exports and negative net imports.

World Palm Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Palm Oil											
Production	43,188	44,631	45,974	47,414	48,844	50,319	51,833	53,387	54,988	56,626	58,295
Consumption	42,221	44,192	45,566	46,997	48,417	49,892	51,402	52,957	54,562	56,199	57,866
Trade *	28,440	30,072	31,148	32,195	33,240	34,352	35,492	36,682	37,930	39,215	40,523
Per Capita Consumption	6.22	6.44	6.56	6.69	6.81	6.94	7.07	7.21	7.35	7.49	7.63
Palm Kernel Meal											
Production	6,151	6,406	6,614	6,837	7,058	7,283	7,513	7,747	7,987	8,230	8,477
Consumption	6,156	6,436	6,649	6,875	7,098	7,325	7,555	7,788	8,027	8,271	8,517
Trade *	4,392	4,546	4,696	4,831	4,966	5,104	5,245	5,390	5,538	5,689	5,845
Palm Kernel Oil											
Production	5,139	5,352	5,527	5,713	5,897	6,086	6,278	6,474	6,675	6,878	7,084
Consumption	4,639	4,957	5,148	5,338	5,522	5,710	5,902	6,098	6,299	6,501	6,708
Trade *	2,062	2,221	2,309	2,373	2,431	2,493	2,551	2,610	2,677	2,746	2,817
Per Capita Consumption	0.68	0.72	0.74	0.76	0.78	0.79	0.81	0.83	0.85	0.87	0.88

* Excludes intraregional trade.

Chinese Palm Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Palm Oil											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	5,700	6,080	6,327	6,602	6,887	7,201	7,533	7,891	8,274	8,681	9,107
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	5,700	6,080	6,327	6,602	6,887	7,201	7,533	7,891	8,274	8,681	9,107
Net Trade	-5,700	-6,080	-6,327	-6,602	-6,887	-7,201	-7,533	-7,891	-8,274	-8,681	-9,107

European Union Palm Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Palm Oil											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	144	174	174	174	172	171	171	172	172	172	172
Domestic Supply	144	174	174	174	172	171	171	172	172	172	172
Consumption	3,780	3,818	3,895	3,959	4,025	4,099	4,172	4,246	4,325	4,403	4,486
Ending Stocks	174	174	174	172	171	171	172	172	172	172	173
Domestic Use	3,954	3,992	4,069	4,131	4,196	4,270	4,344	4,418	4,497	4,575	4,659
Net Trade	-3,810	-3,818	-3,895	-3,957	-4,024	-4,099	-4,173	-4,247	-4,325	-4,403	-4,487
Palm Kernel Meal											
Production	14	14	14	14	14	14	14	14	14	14	14
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	14	14	14	14	14	14	14	14	14	14	14
Consumption	2,464	2,530	2,555	2,580	2,614	2,650	2,688	2,728	2,770	2,815	2,861
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	2,464	2,530	2,555	2,580	2,614	2,650	2,688	2,728	2,770	2,815	2,861
Net Trade	-2,450	-2,517	-2,541	-2,566	-2,600	-2,636	-2,675	-2,714	-2,756	-2,801	-2,848
Palm Kernel Oil											
Production	10	10	10	10	10	10	10	10	10	10	10
Beginning Stocks	17	24	25	25	24	23	23	22	22	22	22
Domestic Supply	27	34	35	35	34	33	33	32	32	32	32
Consumption	618	628	642	651	657	665	672	679	687	697	706
Ending Stocks	24	25	25	24	23	23	22	22	22	22	22
Domestic Use	642	653	667	675	680	688	694	701	709	718	727
Net Trade	-615	-619	-632	-640	-646	-655	-661	-669	-677	-687	-696

Indian Palm Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Palm Oil											
Production	50	49	50	52	54	55	57	60	62	64	66
Beginning Stocks	65	85	85	85	86	86	87	88	88	89	89
Domestic Supply	115	134	135	137	139	142	144	147	150	152	155
Consumption	4,925	5,160	5,323	5,502	5,671	5,848	6,029	6,216	6,410	6,600	6,794
Ending Stocks	85	85	85	86	86	87	88	88	89	89	89
Domestic Use	5,010	5,246	5,408	5,588	5,757	5,935	6,116	6,304	6,499	6,689	6,883
Net Trade	-4,895	-5,112	-5,273	-5,451	-5,618	-5,793	-5,972	-6,157	-6,349	-6,537	-6,728

Indonesian Palm Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Palm Oil											
Production	19,700	20,712	21,597	22,416	23,196	23,972	24,754	25,550	26,368	27,206	28,059
Beginning Stocks	1,141	1,311	1,318	1,318	1,315	1,315	1,314	1,314	1,314	1,313	1,313
Domestic Supply	20,841	22,023	22,915	23,734	24,511	25,287	26,068	26,864	27,682	28,519	29,372
Consumption	4,950	4,971	5,144	5,278	5,384	5,472	5,547	5,613	5,672	5,727	5,780
Ending Stocks	1,311	1,318	1,318	1,315	1,315	1,314	1,314	1,314	1,313	1,313	1,313
Domestic Use	6,261	6,289	6,462	6,593	6,699	6,786	6,861	6,927	6,985	7,040	7,093
Net Trade	14,580	15,734	16,453	17,141	17,812	18,501	19,207	19,937	20,697	21,479	22,279
Palm Kernel Meal											
Production	2,727	2,842	2,991	3,131	3,265	3,399	3,534	3,670	3,809	3,951	4,094
Beginning Stocks	15	45	46	47	47	48	48	48	48	49	49
Domestic Supply	2,742	2,887	3,037	3,178	3,313	3,447	3,582	3,718	3,857	3,999	4,143
Consumption	465	509	547	587	626	665	703	742	782	821	860
Ending Stocks	45	46	47	47	48	48	48	48	49	49	49
Domestic Use	510	556	594	635	674	712	751	790	830	870	909
Net Trade	2,232	2,331	2,443	2,543	2,639	2,734	2,831	2,928	3,027	3,129	3,234
Palm Kernel Oil											
Production	2,284	2,380	2,505	2,622	2,735	2,847	2,960	3,074	3,190	3,309	3,429
Beginning Stocks	50	92	94	95	94	94	93	92	92	91	91
Domestic Supply	2,334	2,472	2,599	2,717	2,829	2,941	3,053	3,166	3,282	3,400	3,520
Consumption	710	747	779	814	847	880	918	955	993	1,029	1,067
Ending Stocks	92	94	95	94	94	93	92	92	91	91	91
Domestic Use	802	841	874	908	940	973	1,010	1,047	1,084	1,120	1,158
Net Trade	1,532	1,631	1,725	1,809	1,889	1,968	2,042	2,119	2,198	2,280	2,362

Malaysian Palm Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Metric Tons)											
Palm Oil											
Production	17,700	18,046	18,493	18,997	19,518	20,073	20,656	21,263	21,892	22,534	23,187
Beginning Stocks	1,975	2,214	2,219	2,213	2,215	2,221	2,225	2,231	2,235	2,238	2,240
Domestic Supply	19,675	20,260	20,712	21,210	21,734	22,294	22,881	23,494	24,127	24,772	25,427
Consumption	3,601	3,703	3,804	3,940	4,084	4,219	4,364	4,513	4,656	4,797	4,940
Ending Stocks	2,214	2,219	2,213	2,215	2,221	2,225	2,231	2,235	2,238	2,240	2,242
Domestic Use	5,815	5,922	6,018	6,156	6,306	6,444	6,595	6,748	6,894	7,037	7,182
Net Trade	13,860	14,338	14,695	15,054	15,428	15,851	16,286	16,745	17,233	17,735	18,245
Palm Kernel Meal											
Production	2,450	2,539	2,594	2,655	2,717	2,783	2,852	2,923	2,997	3,072	3,148
Beginning Stocks	77	87	101	108	114	118	120	123	127	131	134
Domestic Supply	2,527	2,626	2,695	2,763	2,831	2,901	2,972	3,047	3,124	3,203	3,282
Consumption	325	355	380	406	431	455	479	504	528	553	578
Ending Stocks	87	101	108	114	118	120	123	127	131	134	138
Domestic Use	412	456	488	520	549	576	603	630	659	687	716
Net Trade	2,115	2,170	2,208	2,243	2,282	2,325	2,370	2,417	2,465	2,516	2,566
Palm Kernel Oil											
Production	2,065	2,140	2,186	2,238	2,290	2,345	2,404	2,464	2,526	2,589	2,653
Beginning Stocks	220	282	294	295	295	294	294	294	294	293	293
Domestic Supply	2,285	2,422	2,480	2,532	2,584	2,640	2,698	2,758	2,821	2,883	2,946
Consumption	1,473	1,537	1,602	1,674	1,748	1,820	1,895	1,973	2,049	2,123	2,199
Ending Stocks	282	294	295	295	294	294	294	294	293	293	292
Domestic Use	1,755	1,831	1,897	1,969	2,043	2,115	2,189	2,267	2,342	2,416	2,491
Net Trade	530	591	584	564	542	525	509	491	479	466	455

Rest-of-World Palm Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Metric Tons)											
Palm Oil											
Production	5,738	5,824	5,833	5,950	6,076	6,219	6,365	6,514	6,666	6,822	6,982
Beginning Stocks	798	881	882	871	864	861	860	859	858	857	857
Domestic Supply	6,536	6,705	6,715	6,821	6,940	7,080	7,225	7,373	7,524	7,679	7,839
Consumption	19,265	20,460	21,073	21,716	22,366	23,054	23,756	24,477	25,224	25,991	26,758
Ending Stocks	881	882	871	864	861	860	859	858	857	857	856
Domestic Use	20,146	21,341	21,944	22,580	23,227	23,914	24,615	25,335	26,081	26,847	27,615
Net Trade	-13,610	-14,636	-15,229	-15,759	-16,287	-16,834	-17,390	-17,962	-18,557	-19,169	-19,776
Palm Kernel Meal											
Production	960	1,012	1,016	1,038	1,062	1,088	1,114	1,140	1,167	1,194	1,221
Beginning Stocks	0	0	0	3	3	4	4	5	5	6	6
Domestic Supply	960	1,012	1,016	1,041	1,065	1,091	1,118	1,145	1,172	1,199	1,227
Consumption	2,902	3,042	3,168	3,301	3,427	3,555	3,684	3,815	3,948	4,082	4,218
Ending Stocks	0	0	3	3	4	4	5	5	6	6	7
Domestic Use	2,902	3,042	3,170	3,305	3,431	3,560	3,689	3,820	3,953	4,088	4,225
Net Trade	-1,942	-2,030	-2,154	-2,264	-2,366	-2,468	-2,571	-2,675	-2,781	-2,889	-2,997
Palm Kernel Oil											
Production	780	822	826	843	863	884	905	926	948	970	992
Beginning Stocks	70	81	82	81	80	79	78	77	77	76	76
Domestic Supply	850	903	908	925	943	963	983	1,004	1,025	1,046	1,068
Consumption	1,458	1,614	1,673	1,725	1,771	1,822	1,870	1,917	1,969	2,021	2,076
Ending Stocks	81	82	81	80	79	78	77	77	76	76	75
Domestic Use	1,539	1,697	1,755	1,805	1,850	1,900	1,948	1,993	2,045	2,097	2,151
Net Trade	-689	-793	-847	-880	-908	-937	-964	-989	-1,020	-1,051	-1,083

World Peanuts and Peanut Products

In contrast to other oilseeds, peanuts have a great number of cultivars. The four major cultivar groups out of thousands of peanut varieties are Runner, Virginia, Spanish, and Valencia. Each type has a distinct size and flavor. The CIF price in Rotterdam for U.S. Runners, 40/50, is selected as the representative world price. The peanut price follows other oilseed prices and declines 18% in 2008/09. Again in line with other oilseeds, the price softens next season because of large carryovers before starting an ascending path throughout the rest of the baseline. The projected price, however, stays above the historical levels.

The peanut meal price also declines by 18% in 2008/09 and follows the trend of the other protein meal prices throughout the baseline. Although peanut oil is only a limited substitute for other major vegetable oils for some end uses, its price is expected to follow the general trends in world vegetable oil prices. The peanut oil price declines 33% in 2008/09 and hits \$1,786/mt by the end of the outlook period.

Because of price decreases, world peanut area remained fairly unchanged in 2008/09, increasing 1.7%. The area remains stagnant for the rest of the outlook, reaching 21.9 mha by 2018/19. Production increases by 7% over the baseline, driven primarily by yield improvements. World trade in peanuts and peanut products is modest compared with total production. Most peanut production supplies the local population and responds to domestic demand. Less than 6% of world peanut, peanut oil, and peanut meal production is traded internationally.

China's peanut area remains constant while its yields improve by 6.0% over the next decade. China remains the leading producer and generates 14.0 mmt by 2018/19. More than half of Chinese peanut output is crushed while the remainder is consumed directly as food. China's peanut net exports remain unchanged at about 5% of production. China is self-sufficient in peanut meal and oil consumption, with very small net trading positions during the outlook.

India has a larger peanut harvested area than any other country, holding a 30% world share. The harvested area expands to 6.7 mha by 2018/19. Small area increases along with yield improvement raise production by 13% over the next decade. The Indian peanut crushing industry is domestically oriented, and trade is negligible. About 75% of the peanuts grown in India are processed for oil to meet the growing domestic demand. Population and income growth stimulates an average growth of 1.5% annually in peanut oil consumption over the outlook period. Because of expansion of the Indian livestock and dairy industries, peanut meal consumption increases 18.1% by 2018/19.

Argentina's peanut area is expected to increase at a slower pace over the baseline. Yield improvements and growth in area increase production 14%, to 741 tmt, by 2018/19. Argentina is the dominant peanut oil net exporter and second only to China in the peanut market. Peanut net exports reach 598 mmt (an 18% increase) while peanut oil net exports remain unchanged at 46-48 tmt over the next 10 years.

The EU is the most significant importer of peanuts and peanut oil. The EU's share of total world peanut net imports accounts for about 39% in 2008/09 and grows to 42% over the next decade. The EU imports almost 59% of all internationally traded peanut oil in 2008/09, and this level remains stable over the outlook period.

Mexican peanut production stagnated in 2008/09 and remains flat over the baseline. Peanut consumption grows by 44 tmt whereas domestic production declines by 3 tmt, increasing imports 37.7% by 2018/19. Food use accounts for 98% of domestic consumption.

Peanut Sector Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Peanuts											
Net Exporters											
(Thousand Metric Tons)											
Argentina	516	506	518	528	536	545	554	565	576	586	598
China	715	729	755	759	749	742	738	734	729	724	719
India	350	334	329	327	323	320	317	313	310	307	304
United States	351	353	342	339	344	341	345	346	347	347	348
Total Net Exports *	1,939	1,898	1,928	1,938	1,933	1,931	1,934	1,941	1,944	1,947	1,951
Net Importers											
Canada	125	144	148	149	150	150	149	150	153	155	156
European Union	755	748	757	758	764	771	777	785	793	801	809
Mexico	131	156	155	155	158	159	161	166	171	176	180
Rest of World	597	520	537	544	530	521	516	509	497	485	474
Residual	331	331	331	331	331	331	331	331	331	331	331
Total Net Imports	1,939	1,898	1,928	1,938	1,933	1,931	1,934	1,941	1,944	1,947	1,951
Peanut Meal											
Net Exporters											
Argentina	20	18	18	18	18	18	18	18	18	18	18
India	165	158	154	151	148	146	144	143	141	139	137
United States	7	7	7	7	7	7	7	7	7	7	7
Rest of World	3	4	4	5	6	7	7	8	9	10	11
Total Net Exports *	193	186	181	179	177	176	175	174	172	171	170
Net Importers											
China	45	41	38	35	33	32	31	31	29	28	27
European Union	40	36	35	35	35	35	35	35	35	35	35
Residual	108	108	108	108	108	108	108	108	108	108	108
Total Net Imports	193	186	181	179	177	176	175	174	172	171	170
Peanut Oil											
Net Exporters											
Argentina	45	46	46	47	47	47	47	47	47	48	48
China	4	4	4	3	3	2	2	1	1	1	0
India	30	30	30	30	30	29	29	29	28	28	28
Rest of World	82	89	91	93	97	101	103	105	107	109	111
Total Net Exports *	161	168	171	173	176	179	181	182	184	185	187
Net Importers											
European Union	94	99	101	101	103	104	104	105	106	106	107
United States	18	19	24	27	27	30	29	30	31	32	33
Residual	27	27	27	27	27	27	27	27	27	27	27
Total Net Imports	161	168	171	173	176	179	181	182	184	185	187
Prices											
(U.S. Dollars per Metric Ton)											
Peanut, U.S. Runners 40/50 CIF Rotterdam	1,377	1,238	1,250	1,283	1,299	1,315	1,332	1,343	1,351	1,355	1,358
Peanut Meal 48/50%, Southeast Mills FO	152	141	135	132	131	133	135	136	135	133	132
Peanut Oil, CIF Rotterdam	1,349	1,429	1,510	1,596	1,642	1,675	1,703	1,726	1,750	1,767	1,786

* Total net exports are the sum of all positive net exports and negative net imports.

World Peanut Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Peanuts											
Area Harvested	21,283	21,546	21,416	21,440	21,555	21,620	21,643	21,697	21,772	21,857	21,929
					(Thousand Hectares)						
Production	33,726	33,745	33,997	34,262	34,557	34,798	35,008	35,262	35,528	35,807	36,063
Beginning Stocks	986	1,318	1,349	1,365	1,375	1,392	1,405	1,417	1,435	1,450	1,467
Domestic Supply	34,712	35,063	35,346	35,627	35,932	36,190	36,413	36,679	36,963	37,257	37,530
Food	14,901	14,387	14,464	14,397	14,401	14,403	14,396	14,407	14,397	14,365	14,296
Crush	15,496	16,252	16,433	16,758	17,017	17,238	17,439	17,658	17,913	18,199	18,503
Other Use	2,666	2,745	2,754	2,767	2,791	2,813	2,829	2,849	2,871	2,895	2,917
Residual	331	331	331	331	331	331	331	331	331	331	331
Ending Stocks	1,318	1,349	1,365	1,375	1,392	1,405	1,417	1,435	1,450	1,467	1,483
Domestic Use	34,712	35,063	35,346	35,627	35,932	36,190	36,413	36,679	36,963	37,257	37,530
Trade	1,939	1,898	1,928	1,938	1,933	1,931	1,934	1,941	1,944	1,947	1,951
Peanut Meal											
Production	6,073	6,377	6,448	6,576	6,676	6,761	6,839	6,925	7,024	7,136	7,256
Consumption	5,968	6,268	6,340	6,467	6,568	6,653	6,731	6,817	6,916	7,028	7,147
Trade	193	186	181	179	177	176	175	174	172	171	170
Peanut Oil											
Production	5,036	5,276	5,333	5,438	5,523	5,595	5,661	5,732	5,816	5,909	6,008
Consumption	5,005	5,250	5,307	5,412	5,493	5,564	5,630	5,702	5,786	5,879	5,978
Trade	161	168	171	173	176	179	181	182	184	185	187
Per Capita Consumption	0.74	0.76	0.76	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.79
					(Kilograms)						

U.S. Peanut Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Peanuts											
Area Harvested	605	589	575	572	579	566	570	566	565	563	561
Yield	3.75	3.45	3.49	3.51	3.54	3.58	3.61	3.64	3.67	3.70	3.73
Production	2,265	2,034	2,004	2,012	2,051	2,024	2,055	2,057	2,071	2,080	2,090
Beginning Stocks	468	686	680	667	665	679	675	684	687	692	697
Domestic Supply	2,733	2,720	2,684	2,679	2,716	2,703	2,729	2,741	2,758	2,772	2,787
Food	1,176	1,177	1,172	1,174	1,184	1,183	1,191	1,196	1,203	1,210	1,216
Crush	273	269	263	262	268	263	268	271	273	276	278
Other	247	242	239	239	241	241	242	242	242	243	243
Ending Stocks	686	680	667	665	679	675	684	687	692	697	702
Domestic Use	2,381	2,367	2,342	2,339	2,372	2,361	2,385	2,395	2,411	2,425	2,439
Net Trade	351	353	342	339	344	341	345	346	347	347	348
Peanut Meal											
Production	130	128	125	125	127	125	128	129	130	131	132
Consumption	123	121	118	118	120	118	121	122	123	124	125
Ending Stocks	3	3	3	3	3	3	3	3	3	3	3
Net Trade	7	7	7	7	7	7	7	7	7	7	7
Peanut Oil											
Production	88	87	85	84	86	85	86	87	88	89	90
Consumption	106	106	109	111	113	114	116	117	119	120	122
Ending Stocks	11	11	11	11	11	11	11	11	11	11	11
Net Trade	-18	-19	-24	-27	-27	-30	-29	-30	-31	-32	-33

Argentine Peanut Sector Supply and Utilization

Chinese Peanut Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Peanuts											
Area Harvested	4,000	4,072	4,124	4,122	4,094	4,069	4,046	4,024	4,000	3,976	3,948
(Metric Tons per Hectare)											
Yield	3.35	3.37	3.39	3.41	3.43	3.45	3.47	3.49	3.51	3.53	3.55
(Thousand Metric Tons)											
Production	13,400	13,721	13,979	14,056	14,042	14,037	14,039	14,045	14,041	14,035	14,017
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	13,400	13,721	13,979	14,056	14,042	14,037	14,039	14,045	14,041	14,035	14,017
Crush	6,800	7,575	7,794	7,970	8,023	8,077	8,144	8,211	8,297	8,407	8,541
Other Use	5,885	5,418	5,430	5,327	5,271	5,218	5,157	5,100	5,015	4,904	4,756
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	12,685	12,993	13,224	13,297	13,294	13,295	13,301	13,311	13,312	13,311	13,298
Net Trade	715	729	755	759	749	742	738	734	729	724	719
Peanut Meal											
Production	2,760	3,075	3,164	3,235	3,256	3,278	3,305	3,333	3,368	3,412	3,467
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	2,760	3,075	3,164	3,235	3,256	3,278	3,305	3,333	3,368	3,412	3,467
Consumption	2,805	3,116	3,202	3,270	3,290	3,311	3,337	3,363	3,397	3,441	3,494
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	2,805	3,116	3,202	3,270	3,290	3,311	3,337	3,363	3,397	3,441	3,494
Net Trade	-45	-41	-38	-35	-33	-32	-31	-31	-29	-28	-27
Peanut Oil											
Production	2,165	2,412	2,482	2,537	2,554	2,571	2,593	2,614	2,642	2,677	2,719
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	2,165	2,412	2,482	2,537	2,554	2,571	2,593	2,614	2,642	2,677	2,719
Consumption	2,161	2,408	2,478	2,534	2,551	2,569	2,591	2,613	2,641	2,676	2,719
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	2,161	2,408	2,478	2,534	2,551	2,569	2,591	2,613	2,641	2,676	2,719
Net Trade	4	4	4	3	3	2	2	1	1	1	0

European Union Peanut Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Thousand Metric Tons)											
Peanuts											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	10	17	19	19	19	19	19	20	20	20	20
Domestic Supply	10	17	19	19	19	19	19	20	20	20	20
Crush	45	28	28	27	27	27	27	27	27	28	28
Other Use	703	718	729	731	737	743	750	757	765	773	781
Ending Stocks	17	19	19	19	19	19	20	20	20	20	21
Domestic Use	765	765	776	777	783	790	797	804	812	821	829
Net Trade	-755	-748	-757	-758	-764	-771	-777	-785	-793	-801	-809
Peanut Meal											
Production	20	12	12	12	12	12	12	12	12	12	12
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	20	12	12	12	12	12	12	12	12	12	12
Consumption	60	49	48	47	47	47	47	47	47	47	47
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	60	49	48	47	47	47	47	47	47	47	47
Net Trade	-40	-36	-35	-35	-35	-35	-35	-35	-35	-35	-35
Peanut Oil											
Production	16	10	10	10	10	10	10	10	10	10	10
Beginning Stocks	5	5	5	5	5	5	5	5	5	5	5
Domestic Supply	21	15	15	15	14	14	14	15	15	15	15
Consumption	110	109	111	111	113	113	114	115	115	116	116
Ending Stocks	5	5	5	5	5	5	5	5	5	5	5
Domestic Use	115	114	115	115	117	118	119	120	120	121	122
Net Trade	-94	-99	-101	-101	-103	-104	-104	-105	-106	-106	-107

Indian Peanut Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Peanuts											
Area Harvested	6,500	6,486	6,280	6,297	6,388	6,448	6,475	6,518	6,577	6,641	6,699
(Metric Tons per Hectare)											
Yield	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12
(Thousand Metric Tons)											
Production	6,600	6,651	6,502	6,582	6,742	6,870	6,963	7,074	7,205	7,341	7,472
Beginning Stocks	54	44	49	51	52	53	54	55	56	57	58
Domestic Supply	6,654	6,695	6,551	6,633	6,794	6,923	7,017	7,129	7,261	7,398	7,530
Crush	4,880	4,891	4,753	4,827	4,970	5,082	5,165	5,263	5,378	5,500	5,616
Other Use	1,380	1,421	1,418	1,428	1,448	1,467	1,481	1,497	1,515	1,534	1,551
Ending Stocks	44	49	51	52	53	54	55	56	57	58	59
Domestic Use	6,304	6,361	6,222	6,306	6,470	6,603	6,701	6,816	6,950	7,091	7,226
Net Trade	350	334	329	327	323	320	317	313	310	307	304
Peanut Meal											
Production	1,910	1,914	1,860	1,889	1,945	1,989	2,022	2,060	2,105	2,153	2,198
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1,910	1,914	1,860	1,889	1,945	1,989	2,022	2,060	2,105	2,153	2,198
Consumption	1,745	1,756	1,706	1,739	1,797	1,843	1,877	1,917	1,965	2,014	2,061
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1,745	1,756	1,706	1,739	1,797	1,843	1,877	1,917	1,965	2,014	2,061
Net Trade	165	158	154	151	148	146	144	143	141	139	137
Peanut Oil											
Production	1,622	1,626	1,580	1,604	1,652	1,689	1,717	1,749	1,788	1,828	1,867
Beginning Stocks	45	45	44	44	44	47	51	54	57	60	63
Domestic Supply	1,667	1,671	1,624	1,648	1,696	1,736	1,768	1,803	1,845	1,888	1,929
Consumption	1,592	1,596	1,550	1,574	1,619	1,656	1,685	1,718	1,756	1,797	1,837
Ending Stocks	45	44	44	44	47	51	54	57	60	63	65
Domestic Use	1,637	1,640	1,594	1,618	1,666	1,707	1,739	1,775	1,816	1,860	1,902
Net Trade	30	30	30	30	30	29	29	29	28	28	28

Canadian Peanut Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Peanuts											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	5	5	6	7	7	7	7	7	7	7	7
Domestic Supply	5	5	6	7	7	7	7	7	7	7	7
Crush	0	0	0	0	0	0	0	0	0	0	0
Other Use	125	143	148	149	150	150	149	150	153	154	156
Ending Stocks	5	6	7	7	7	7	7	7	7	7	7
Domestic Use	130	149	154	156	157	157	156	157	159	161	163
Net Trade	-125	-144	-148	-149	-150	-150	-149	-150	-153	-155	-156

Mexican Peanut Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Peanuts											
Area Harvested	45	46	43	43	43	43	42	42	41	41	41
Yield	1.56	1.57	1.58	1.59	1.60	1.61	1.62	1.63	1.64	1.65	1.66
(Metric Tons per Hectare)											
Production	70	71	68	68	68	68	68	68	68	68	67
Beginning Stocks	11	9	16	16	16	16	16	16	17	18	19
Domestic Supply	81	80	84	84	84	84	84	84	84	85	86
Crush	4	4	4	4	4	4	4	4	4	4	4
Other Use	199	217	219	219	221	223	225	229	233	238	243
Ending Stocks	9	16	16	16	16	16	16	17	18	19	20
Domestic Use	212	236	240	239	241	243	244	249	255	261	266
Net Trade	-131	-156	-155	-155	-158	-159	-161	-166	-171	-176	-180

Rest-of-World Peanut Sector Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Peanuts											
Area Harvested	9,888	10,152	10,168	10,175	10,225	10,259	10,278	10,308	10,347	10,392	10,432
(Metric Tons per Hectare)											
Yield	1.08	1.06	1.06	1.07	1.08	1.08	1.09	1.10	1.11	1.11	1.12
(Thousand Metric Tons)											
Production	10,671	10,730	10,818	10,897	11,022	11,130	11,222	11,328	11,443	11,565	11,683
Beginning Stocks	401	424	467	474	474	479	484	488	493	499	505
Domestic Supply	11,072	424	11,285	11,370	11,496	11,609	11,706	11,815	11,936	12,064	12,188
Crush	3,400	3,406	3,499	3,573	3,635	3,690	3,739	3,789	3,841	3,893	3,944
Other Use	7,846	7,801	7,849	7,868	7,912	7,956	7,995	8,042	8,094	8,151	8,207
Ending Stocks	424	467	474	474	479	484	488	493	499	505	512
Domestic Use	11,669	11,674	11,821	11,915	12,026	12,130	12,222	12,324	12,433	12,549	12,662
Net Trade	-597	-520	-537	-544	-530	-521	-516	-509	-497	-485	-474
Peanut Meal											
Production	1,220	1,222	1,256	1,282	1,304	1,324	1,342	1,360	1,378	1,397	1,415
Beginning Stocks	5	2	3	4	5	5	5	5	5	6	6
Domestic Supply	1,225	1,224	1,259	1,286	1,309	1,329	1,347	1,365	1,383	1,402	1,421
Consumption	1,220	1,217	1,250	1,277	1,298	1,317	1,334	1,351	1,369	1,387	1,404
Ending Stocks	2	3	4	5	5	5	5	5	6	6	6
Domestic Use	1,222	1,220	1,254	1,281	1,303	1,322	1,339	1,357	1,375	1,393	1,411
Net Trade	3	4	4	5	6	7	7	8	9	10	11
Peanut Oil											
Production	1,108	1,110	1,141	1,165	1,185	1,203	1,219	1,235	1,252	1,269	1,286
Beginning Stocks	8	13	13	13	12	12	12	12	13	13	13
Domestic Supply	1,116	1,123	1,154	1,177	1,197	1,215	1,232	1,248	1,265	1,282	1,299
Consumption	1,022	1,022	1,050	1,073	1,088	1,102	1,116	1,130	1,145	1,160	1,175
Ending Stocks	13	13	13	12	12	12	12	13	13	13	13
Domestic Use	1,035	1,035	1,063	1,085	1,101	1,115	1,128	1,143	1,158	1,173	1,188
Net Trade	82	89	91	93	97	101	103	105	107	109	111

Per Capita Vegetable Oil Consumption of Selected Countries

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Argentina											
Soybean Oil	9.53	9.56	9.53	9.48	9.55	9.63	9.75	9.86	9.95	10.04	10.14
Sunflower Oil	9.29	9.30	9.33	9.39	9.44	9.48	9.51	9.56	9.60	9.64	9.68
Peanut Oil	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	18.84	18.89	18.89	18.90	19.02	19.14	19.30	19.45	19.57	19.71	19.84
Australia											
Rapeseed Oil	8.18	8.18	8.20	8.19	8.16	8.09	8.02	7.95	7.87	7.79	7.71
Brazil											
Soybean Oil	12.97	12.74	11.95	11.46	11.28	11.11	11.01	10.92	10.79	10.69	10.60
Canada											
Soybean Oil	9.71	9.85	9.94	9.86	9.86	9.82	9.78	9.77	9.81	9.82	9.83
Canola Oil	12.24	12.12	12.07	12.10	12.12	12.09	12.08	12.09	12.11	12.13	12.15
Total	21.95	21.96	22.02	21.96	21.97	21.91	21.86	21.86	21.92	21.95	21.98
China											
Soybean Oil	7.15	7.47	7.81	8.18	8.61	9.04	9.48	9.93	10.41	10.91	11.41
Rapeseed Oil	3.40	3.49	3.43	3.47	3.51	3.53	3.56	3.58	3.60	3.63	3.65
Sunflower Oil	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.24	0.25	0.25
Palm Oil	2.73	2.83	2.90	2.97	3.04	3.12	3.20	3.30	3.40	3.51	3.63
Peanut Oil	1.61	1.79	1.83	1.85	1.85	1.86	1.86	1.86	1.87	1.89	1.91
Total	15.07	15.77	16.17	16.68	17.22	17.76	18.32	18.91	19.53	20.18	20.85
European Union											
Soybean Oil	3.38	3.38	3.39	3.35	3.35	3.36	3.37	3.39	3.40	3.41	3.42
Rapeseed Oil	5.05	5.02	4.93	4.96	4.97	4.98	5.00	5.01	5.01	5.03	5.04
Sunflower Oil	6.10	6.30	6.41	6.50	6.56	6.63	6.68	6.75	6.81	6.88	6.95
Palm Oil	7.70	7.77	7.92	8.04	8.17	8.32	8.46	8.61	8.77	8.93	9.10
Peanut Oil	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.24
Total	22.45	22.69	22.87	23.07	23.29	23.51	23.75	23.99	24.23	24.48	24.74
India											
Soybean Oil	1.83	1.70	1.77	1.84	1.93	2.03	2.13	2.23	2.34	2.44	2.54
Rapeseed Oil	1.71	1.57	1.63	1.67	1.67	1.66	1.65	1.66	1.66	1.68	1.69
Palm Oil	4.22	4.36	4.43	4.51	4.58	4.66	4.73	4.81	4.90	4.97	5.05
Peanut Oil	1.37	1.35	1.29	1.29	1.31	1.32	1.32	1.33	1.34	1.35	1.37
Total	9.12	8.97	9.12	9.32	9.49	9.66	9.84	10.03	10.24	10.44	10.65
Indonesia											
Palm Oil	17.11	17.14	17.17	17.20	17.23	17.25	17.28	17.31	17.34	17.36	17.38
Total	17.11	17.14	17.17	17.20	17.23	17.25	17.28	17.31	17.34	17.36	17.38
Japan											
Soybean Oil	4.44	4.45	4.48	4.41	4.41	4.41	4.42	4.43	4.43	4.44	4.44
Rapeseed Oil	7.44	8.08	8.10	8.18	8.28	8.38	8.46	8.55	8.64	8.73	8.82
Total	11.87	12.53	12.59	12.59	12.69	12.78	12.88	12.98	13.08	13.17	13.26

Per Capita Vegetable Oil Consumption of Selected Countries (continued)

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Kilograms)											
Malaysia											
Palm Oil	35.78	36.22	36.69	37.41	38.18	38.87	39.62	40.35	41.01	41.62	42.24
Total	35.78	36.22	36.69	37.41	38.18	38.87	39.62	40.35	41.01	41.62	42.24
Other CIS †											
Soybean Oil	0.90	0.89	0.90	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.96
Rapeseed Oil	0.85	0.84	0.84	0.84	0.85	0.85	0.85	0.86	0.86	0.86	0.87
Sunflower Oil	6.84	6.77	6.83	6.89	6.93	6.96	7.00	7.04	7.09	7.12	7.17
Total	8.59	8.50	8.57	8.64	8.69	8.73	8.78	8.83	8.89	8.94	9.00
South Korea											
Soybean Oil	9.81	10.86	10.91	10.77	10.85	10.92	11.05	11.18	11.29	11.42	11.56
Taiwan											
Soybean Oil	18.06	18.33	18.08	18.06	18.28	18.52	18.86	19.25	19.48	19.73	20.01
United States											
Soybean Oil	22.17	22.05	21.63	21.13	21.02	20.92	20.90	20.86	20.84	20.84	20.85
Sunflower Oil	0.85	0.85	0.86	0.88	0.88	0.89	0.89	0.89	0.89	0.89	0.89
Canola Oil	4.69	4.64	4.53	4.57	4.60	4.60	4.63	4.65	4.67	4.71	4.74
Peanut Oil	0.39	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.39	0.39	0.39
Total	28.10	27.91	27.39	26.97	26.88	26.79	26.79	26.78	26.78	26.82	26.87

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan.

WORLD COTTON

World Cotton

In 2008/09, world cotton acreage shrank to 31.1 mha under continued competition from grains and oilseeds, which have seen their prices rise. Production shrank to 23.9 mmt on yields of 768 kg/ha. Mill use is expected to decline to 24.8 mmt under the current economic crisis. The decline in mill use is smaller than the contraction in production and a modest drawing down of stocks. The Cotlook A-index Far-East (FE) price for cotton falls with soft demand to \$1,345 per mt. Price reporting has made a transition to the FE price, and the previous Northern Europe (NE) price is no longer being reported. Historically, the FE price has trended lower than the NE price. World cotton demand in 2008/09 and in the next few years remains uncertain and is dependent upon resolution of the current economic crisis. World cotton acreage contracted again in 2008/09; it decreased in regions where grains and oilseeds are a viable alternative and even in regions that are seeing significant growth in yields or have regularly seen expansion of cultivated area. World cotton area returns to modest growth as world GDP recovers, but it remains below the area seen in 2005/06 and 2006/07.

Chinese cotton production fell modestly, to 7.9 mmt, in 2008/09 despite a larger fall in acreage, as higher yields offset some of the acreage decline. Acreage is expected to fall again in 2009/10 and to remain near 6 mha during the next decade. Chinese mill use continued its rapid expansion in 2007/08, reaching 11.2 mmt of consumption, which represents more than 42% of total world consumption. Significant turmoil in the world economy has cut demand in China and elsewhere, with demand in 2008/09 expected to reach 10.3 mmt and to grow at a more tepid pace as the global economy recovers. As this recovery occurs, and with acreage relatively stable, Chinese cotton imports are expected to again return to their strong growth path, reaching just over a third of use by 2018/19 and nearly half of world trade flows, making China the dominant destination for cotton trade.

China's increase in demand is met in part by increased area and improving yields in India. With the most area under cotton cultivation in the world, estimated at just over 9.5 mha in 2007/08, India reduces its area to 9.3 mha by 2008/09. This contraction of area is driven by macroeconomic conditions and intense competition from grains and oilseeds. Yields in India are below the world average, at 535 kg per ha in 2008/09, but they have grown rapidly with the adoption of BT cotton and are expected to expand to 680 kg per ha by 2018/19, still below the world average but closing the gap. While grain and oilseed prices are providing competition for area, growing yields mean cotton acreage should expand under stable prices. The additional area, coupled with yield growth, results in production of 7.0 mmt and net exports of 2.1 mmt by the end of the projection period.

World mill use is expected to concentrate further in a handful of countries even as the industry struggles through difficult economic conditions. China, India, Pakistan, and Turkey account for 72% of world mill use in 2008/09, and their share expands to just under 77% of world mill use by 2018/19. Developed countries worldwide see continued declines in their consumption of raw cotton.

U.S. cotton production contracted significantly in 2008/09, falling to 2.8 mmt on weak yields of 907 kg/ha, and as area was further diverted to grains and oilseeds. Harvested area is anticipated to stabilize in 2009/10. Cotton mill use in the United States, estimated at 1.00 mmt in 2007/08, has been falling for several years. U.S. mill use continues to contract in 2008/09, falling to 0.92 mmt and reaching 0.69 by the end of the projection period. With the loss of domestic consumers for their production, U.S. cotton farmers increasingly rely on world markets. Exports continue to be the dominant force in U.S. cotton demand, but reduced acreage keeps exports below 2.5 mmt during the projection period.

Cotton Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters	(Thousand Metric Tons)										
Argentina	-26	-25	-29	-32	-29	-26	-24	-22	-19	-16	-13
Australia	216	334	460	508	532	554	574	594	614	635	656
Brazil	469	381	376	472	590	714	832	944	1,056	1,166	1,276
India	758	1,339	1,373	1,469	1,583	1,681	1,755	1,831	1,917	1,998	2,087
Africa	621	770	814	824	827	830	834	839	844	850	856
Other CIS	250	310	321	322	317	321	326	331	336	341	347
Other Middle East	-1	23	44	51	50	48	47	46	45	45	45
United States	2,576	2,400	2,243	2,167	2,174	2,197	2,242	2,306	2,370	2,434	2,494
Uzbekistan	783	880	945	967	967	969	974	978	982	989	995
Total Net Exports *	5,751	6,511	6,668	6,876	7,139	7,412	7,684	7,972	8,268	8,566	8,868
Net Importers											
Canada	4	4	4	5	5	5	5	4	4	4	4
China	1,586	2,339	2,436	2,623	2,864	3,114	3,370	3,633	3,904	4,181	4,462
European Union	101	90	104	109	105	97	88	79	71	63	56
Indonesia	453	467	474	481	483	485	486	490	491	494	497
Japan	109	106	99	97	92	87	83	78	74	69	65
Mexico	246	187	207	201	188	176	163	154	149	142	135
Other Asia	1,331	1,367	1,392	1,426	1,470	1,514	1,556	1,600	1,644	1,689	1,734
Other Europe	19	18	17	16	15	14	13	12	11	10	9
Other Latin America	178	189	180	179	182	184	186	188	190	191	192
Pakistan	518	511	557	581	604	631	656	680	703	725	748
Russia	236	224	212	201	190	179	167	156	145	134	123
Kazakhstan	-77	-73	-91	-96	-97	-98	-101	-103	-105	-108	-111
South Korea	186	167	179	167	156	148	139	130	122	113	104
Taiwan	192	187	184	181	178	175	173	169	167	164	160
Turkey	477	541	507	491	490	491	490	489	488	484	480
Residual	87	87	87	87	87	87	87	87	87	87	87
Total Net Imports	5,751	6,511	6,668	6,876	7,139	7,412	7,684	7,972	8,268	8,566	8,868
Prices	(U.S. Dollars per Metric Ton)										
Cotlook A Index **											
CIF Far East	1,345	1,441	1,537	1,551	1,569	1,601	1,630	1,650	1,673	1,694	1,712
U.S. Farm Price	1,083	1,141	1,231	1,259	1,277	1,303	1,326	1,338	1,353	1,365	1,377

Source: Cotlook, Ltd., Liverpool, England.

* Total net exports are the sum of all positive net exports and negative net imports.

** The "A" index is the average of the five lowest CIF Northern European quotes of the following descriptions (Middling 1-3/32"): Memphis; Calif./Ariz.; Mexican; Central American; Paraguayan; Turkish Izmir/Antalya; Central Asian; Pakistani 1503; Indian H-4; Chinese 329; African "Franc Zone"; Tanzanian; Greek; and Australian.

World Cotton Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Area Harvested	31,089	30,586	31,276	31,749	31,941	32,099	32,292	32,535	32,758	33,016	33,268
Yield	768	791	803	815	827	838	850	861	873	884	896
Production	23,890	24,189	25,122	25,885	26,415	26,915	27,439	28,019	28,584	29,198	29,807
Mill Use	24,750	25,154	25,569	26,061	26,599	27,134	27,675	28,233	28,808	29,403	30,006
Ending Stocks	13,151	12,631	12,629	12,897	13,157	13,383	13,591	13,822	14,043	14,282	14,528
Loss	-444	-444	-444	-444	-444	-444	-444	-444	-444	-444	-444
Stocks-to-Use Ratio	53.14	50.21	49.39	49.49	49.47	49.32	49.11	48.96	48.75	48.58	48.42

U.S. Cotton Supply and Utilization

African Cotton Supply and Utilization

Argentine Cotton Supply and Utilization

Australian Cotton Supply and Utilization

Brazilian Cotton Supply and Utilization

Canadian Cotton Supply and Utilization

Chinese Cotton Supply and Utilization

European Union Cotton Supply and Utilization

Indian Cotton Supply and Utilization

Indonesian Cotton Supply and Utilization

Japanese Cotton Supply and Utilization

Kazakhstan Cotton Supply and Utilization

Mexican Cotton Supply and Utilization

Other Asian Cotton Supply and Utilization

Other European Cotton Supply and Utilization

Other CIS Cotton Supply and Utilization

Other Latin American Cotton Supply and Utilization

Other Middle Eastern Cotton Supply and Utilization

Pakistani Cotton Supply and Utilization

Russian Cotton Supply and Utilization

South Korean Cotton Supply and Utilization

Taiwanese Cotton Supply and Utilization

Turkish Cotton Supply and Utilization

Uzbek Cotton Supply and Utilization

WORLD SUGAR

World Sugar

World sugarcane and sugar beet harvested areas decline in 2008/09 as cane area, mainly in India and Pakistan, falls and beet area drops in the EU, the Ukraine, and the United States. Harvested area for sugarcane increases 19.2% by 2018/19 while sugar beet harvested area increases by 0.5%, because the reductions in beet area in the EU are offset by increases in other countries such as Russia. World sugar production (in raw sugar equivalence) declines by almost 5% in 2008/09 as production falls in several countries, most noticeably in India. Sugar consumption increases 3.2% in 2008/09, resulting in a deficit in the world sugar market. Total sugar production increases 22.6% and total consumption increases 19.9% over the decade. World sugar net trade increases 38.1% by 2018/19.

Despite the production shortfall in 2008/09, the world sugar price decreases by 4.9%, as global stocks decline by 10%. By 2018/19, the sugar price increases 14.9%, reaching almost 15¢ per pound. This sustained higher world price is the result of not only higher sugar imports in countries such as the EU and India but also increased production of ethanol from sugarcane, particularly in Brazil.

The major sugar-exporting countries—Australia, Brazil, Guatemala, South Africa, and Thailand—account for about 93% of world sugar trade in 2008/09. Brazil accounts for almost 60% of world trade, and it maintains the largest share of world trade throughout the projection period. In 2006/07, with the implementation of the CMO sugar reforms, the EU switched from a net exporter to a net importer of sugar. After completion of the restructuring period of the reforms in 2009/10, the EU is expected to become a major sugar importer.

Brazil continues its record crop production in 2008/09, with sugarcane production increasing by 63.9 mmt, or 13%, as crop harvested area increases 13.8%. Since about 60% of the sugarcane produced goes to ethanol production, sugar production increases by only 1.9%. Sugar consumption increases by 2.2% in 2008/09. Sugar production and consumption increase 40.2% and 21.1%, respectively, while net exports reach 31.1 mmt by 2018/19, an increase of 53.5%.

Despite a 2% reduction in harvested area, Thailand's sugarcane production increases by 0.9% in 2008/09 as yields continue to increase because of favorable weather conditions. Sugar production increases by 1% in the same year while sugar consumption increases 4.5%, with higher consumption from both households and industry. Sugar production, consumption, and net exports increase 18.4%, 19.5%, and 29.4%, respectively, by 2018/19.

In 2008/09, Indian sugar production is on the downward side of the country's persistent cyclical fluctuations in production. Sugar production decreases by 20% because farmers shift area to more profitable crops while consumption increases by 2.0%. Consequently, India becomes a net importer in 2008/09, with net imports of 700 tmt following net exports of 4.9 mmt in 2007/08. Sugar production and consumption increase 21.5% and 27.6%, respectively, by 2018/19. Net imports decline toward the end of the projection period, settling at about 4.1 mmt.

Beet harvested area in the EU decreased 17.2% in 2006/07 with the implementation of the sugar reforms. Beet area declined another 7.2% in 2007/08, and it falls 6.4% in 2008/09. Sugar production continues to decline, decreasing by 4.7% in 2008/09, while consumption increases 5.5%. In the first year of the reforms, the EU became a net importer of sugar. Net imports total 2.3 mmt in 2008/09. Sugar production decreases 6.6%, consumption increases 1.3%, and net imports reach 4.7 mmt by 2018/19.

Russia is the largest importer of sugar, accounting for 8.5% of world net trade in 2008/09. As its sugar production expands and net imports decline over the projection period, Russia is expected to account for 5% of world net trade by 2018/19. As a region, Asia is the largest importer, with China, Indonesia, Japan, Malaysia, and South Korea together accounting for 19.4% of world trade by 2018/19. Sugar production decreases by 0.7% in China in 2008/09 after increasing for two consecutive years. Net imports in Japan decline 20.3% by 2018/19, as Japanese sugar consumption declines by 3% while production increases by almost 23% over the decade.

Sugar Trade

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Net Exporters											
Argentina	340	335	321	314	311	312	314	317	323	332	343
Australia	3,891	3,804	3,887	3,935	3,983	4,028	4,078	4,129	4,177	4,226	4,278
Brazil	20,250	25,702	27,353	28,086	28,673	29,226	29,656	30,157	30,660	30,883	31,076
Colombia	540	470	408	365	344	336	337	342	348	356	363
Cuba	660	638	627	636	655	678	706	734	761	793	826
Guatemala	1,590	1,633	1,659	1,698	1,746	1,800	1,860	1,922	1,985	2,052	2,122
Mexico	425	354	336	350	376	404	430	444	454	468	485
Philippines	320	275	230	199	177	160	146	131	114	101	89
South Africa	800	696	661	659	665	674	676	672	668	667	664
Thailand	5,100	5,720	5,994	6,164	6,258	6,326	6,378	6,425	6,476	6,537	6,601
Turkey	40	177	185	192	181	160	137	110	82	57	33
Total Net Exports *	33,956	39,803	41,660	42,599	43,367	44,104	44,718	45,382	46,047	46,472	46,880
Net Importers											
Algeria	1,365	1,374	1,404	1,431	1,463	1,497	1,532	1,568	1,605	1,641	1,678
Canada	1,400	1,462	1,503	1,520	1,536	1,547	1,556	1,571	1,590	1,604	1,617
China	599	500	544	633	740	847	951	1,068	1,194	1,318	1,435
Egypt	1,040	1,105	1,173	1,214	1,252	1,289	1,325	1,364	1,408	1,451	1,497
European Union	2,299	4,409	4,324	4,389	4,442	4,497	4,547	4,589	4,628	4,669	4,703
India	700	2,691	3,530	3,776	3,919	4,053	4,127	4,192	4,238	4,200	4,131
Indonesia	2,200	2,428	2,545	2,621	2,685	2,744	2,808	2,869	2,928	2,982	3,037
Iran	663	1,133	1,273	1,351	1,351	1,373	1,394	1,415	1,437	1,457	1,476
Japan	1,340	1,289	1,265	1,240	1,214	1,190	1,164	1,140	1,117	1,093	1,068
Malaysia	1,235	1,340	1,405	1,453	1,500	1,545	1,591	1,639	1,686	1,731	1,777
Morocco	612	638	676	705	735	766	798	832	867	901	937
Pakistan	625	685	828	927	1,024	1,103	1,179	1,261	1,343	1,412	1,480
Peru	88	79	82	82	91	104	119	137	157	176	196
Russia	2,900	2,902	2,937	2,878	2,813	2,738	2,659	2,584	2,508	2,416	2,327
South Korea	1,230	1,366	1,366	1,370	1,380	1,391	1,402	1,413	1,424	1,433	1,444
Ukraine	300	852	743	698	684	683	682	682	681	676	670
United States	2,143	2,034	1,879	1,896	1,925	1,955	1,984	2,000	2,013	2,029	2,048
Venezuela	400	354	358	368	383	398	413	425	435	442	449
Rest of World	12,232	12,576	13,241	13,461	13,644	13,800	13,903	14,049	14,204	14,255	14,324
Total Net Imports	33,956	39,803	41,660	42,599	43,367	44,104	44,718	45,382	46,047	46,472	46,880
Prices											
(U.S. Dollars per Metric Ton)											
FOB Caribbean Price	287	287	279	287	292	298	305	310	315	323	329
New York Spot	466	500	483	480	484	488	492	491	487	485	484

Note: Sugar is in raw equivalent.

* Total net exports are the sum of all positive net exports and negative net imports.

World Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	5.12	5.05	5.05	5.04	5.04	5.05	5.07	5.09	5.11	5.13	5.15
Yield	44.25	44.65	45.31	45.68	(Metric Tons per Hectare)			46.61	46.80	46.99	47.18
Production	227	225	229	230	232	233	235	237	239	241	243
Sugarcane											
Area Harvested	22.49	23.16	23.61	23.92	24.24	24.59	24.98	25.39	25.80	26.27	26.80
Yield	71.72	72.21	72.84	73.53	74.25	75.00	75.77	76.54	77.31	78.10	78.89
Production	1,613	1,673	1,720	1,759	1,800	1,844	1,893	1,943	1,995	2,052	2,114
Sugar											
Production	158.55	164.68	168.94	171.89	174.94	178.11	181.25	184.57	187.92	191.05	194.31
Beginning Stocks	42.56	38.48	38.12	38.26	38.27	38.26	38.25	38.22	38.22	38.22	38.18
Domestic Supply	201.11	203.16	207.06	210.15	213.21	216.37	219.50	222.80	226.14	229.27	232.49
Consumption	162.05	165.04	168.80	171.87	174.95	178.12	181.27	184.58	187.91	191.09	194.35
Ending Stocks	38.48	38.12	38.26	38.27	38.26	38.25	38.22	38.22	38.22	38.18	38.14
Domestic Use	200.53	203.16	207.06	210.15	213.21	216.37	219.50	222.80	226.14	229.27	232.49
Net Trade	33.96	39.80	41.66	42.60	43.37	44.10	44.72	45.38	46.05	46.47	46.88

U.S. Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	407	467	480	472		(Thousand Hectares)					
					467	466	465	465	464	464	465
Yield	59.85	57.88	58.71	59.44		(Metric Tons per Hectare)					
					60.14	60.86	61.62	62.39	63.13	63.87	64.60
Production	24,331	27,032	28,212	28,065		(Thousand Metric Tons)					
					28,102	28,346	28,628	29,034	29,323	29,638	30,029
Sugarcane											
Area Harvested	333	332	345	344		(Thousand Hectares)					
					339	337	335	335	334	332	331
Yield	79.40	77.00	78.00	78.48		(Metric Tons per Hectare)					
					78.96	79.55	80.20	80.92	81.56	82.12	82.68
Production	26,479	25,590	26,876	26,980		(Thousand Metric Tons)					
					26,752	26,794	26,905	27,072	27,219	27,297	27,392
Sugar											
Production	7,076	7,374	7,752	7,777	7,790	7,870	7,965	8,088	8,190	8,288	8,402
Beginning Stocks	1,502	1,086	1,035	1,144	1,179	1,196	1,213	1,231	1,260	1,296	1,323
Domestic Supply	8,578	8,460	8,787	8,921	8,969	9,066	9,178	9,319	9,450	9,584	9,725
Consumption	9,635	9,459	9,522	9,639	9,698	9,808	9,930	10,059	10,166	10,291	10,423
Ending Stocks	1,086	1,035	1,144	1,179	1,196	1,213	1,231	1,260	1,296	1,323	1,350
Domestic Use	10,721	10,494	10,666	10,818	10,893	11,021	11,161	11,319	11,462	11,614	11,773
Net Trade	-2,143	-2,034	-1,879	-1,896	-1,925	-1,955	-1,984	-2,000	-2,013	-2,029	-2,048

Algerian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	445	480	493	498	500	501	501	501	501	501	501
Domestic Supply	445	480	493	498	500	501	501	501	501	501	501
Consumption	1,330	1,361	1,398	1,429	1,463	1,497	1,532	1,568	1,605	1,641	1,678
Ending Stocks	480	493	498	500	501	501	501	501	501	501	501
Domestic Use	1,810	1,854	1,897	1,930	1,963	1,998	2,032	2,069	2,106	2,142	2,179
Net Trade	-1,365	-1,374	-1,404	-1,431	-1,463	-1,497	-1,532	-1,568	-1,605	-1,641	-1,678

Argentine Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	296	297	298	298	299	300	301	303	304	306	308
Yield	74.32	74.74	75.36	76.10	76.92	77.78	78.66	79.55	80.46	81.37	82.29
Production	22,000	22,182	22,427	22,669	22,977	23,323	23,694	24,083	24,492	24,923	25,379
Sugar											
Production	2,250	2,273	2,303	2,332	2,368	2,409	2,452	2,497	2,544	2,594	2,646
Beginning Stocks	103	113	118	122	126	129	132	135	138	141	144
Domestic Supply	2,353	2,386	2,420	2,454	2,494	2,537	2,583	2,632	2,682	2,735	2,790
Consumption	1,900	1,933	1,977	2,015	2,054	2,094	2,135	2,177	2,218	2,259	2,301
Ending Stocks	113	118	122	126	129	132	135	138	141	144	146
Domestic Use	2,013	2,051	2,100	2,140	2,182	2,226	2,270	2,315	2,359	2,403	2,447
Net Trade	340	335	321	314	311	312	314	317	323	332	343

Australian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	390	395	397	397	398	399	401	403	405	406	408
(Metric Tons per Hectare)											
Yield	87.18	88.86	90.11	91.11	91.97	92.76	93.50	94.22	94.92	95.62	96.31
Sugar											
Production	34,000	35,103	35,767	36,134	36,568	37,005	37,459	37,941	38,405	38,853	39,337
Beginning Stocks											
Domestic Supply	400	309	336	351	354	355	356	356	356	357	357
Consumption	1,100	1,235	1,267	1,291	1,316	1,341	1,366	1,392	1,418	1,444	1,469
Ending Stocks	309	336	351	354	355	356	356	356	357	357	357
Domestic Use	1,409	1,571	1,618	1,645	1,671	1,697	1,722	1,748	1,775	1,801	1,827
Net Trade	3,891	3,804	3,887	3,935	3,983	4,028	4,078	4,129	4,177	4,226	4,278

Brazilian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	7,400	8,160	8,535	8,772	8,978	9,204	9,468	9,735	10,011	10,333	10,695
(Metric Tons per Hectare)											
Yield	75.00	75.21	75.79	76.54	77.37	78.24	79.13	80.03	80.93	81.83	82.74
Production											
Domestic Supply	555,000	613,688	646,840	671,346	694,621	720,118	749,213	779,066	810,158	845,608	884,913
Sugar											
Production	32,450	37,906	39,758	40,726	41,560	42,362	43,040	43,799	44,560	45,036	45,488
Beginning Stocks	465	765	825	836	837	836	835	833	832	830	829
Domestic Supply	32,915	38,671	40,583	41,562	42,397	43,198	43,874	44,632	45,392	45,866	46,316
Consumption	11,900	12,144	12,394	12,639	12,889	13,137	13,386	13,643	13,902	14,154	14,414
Ending Stocks	765	825	836	837	836	835	833	832	830	829	827
Domestic Use	12,665	12,969	13,230	13,476	13,725	13,972	14,219	14,475	14,732	14,983	15,241
Net Trade	20,250	25,702	27,353	28,086	28,673	29,226	29,656	30,157	30,660	30,883	31,076

Canadian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	12	12	13	13	13	13	13	13	13	13	13
(Thousand Hectares)											
Yield	57.06	57.51	57.95	58.39	58.82	59.25	59.68	60.11	60.54	60.97	61.40
Production	709	717	729	735	742	748	753	760	767	775	784
Sugar											
Production	85	86	87	88	89	90	91	92	93	94	95
Beginning Stocks	49	24	32	46	59	72	83	95	107	119	131
Domestic Supply	134	110	119	135	149	162	174	186	199	213	226
Consumption	1,510	1,540	1,576	1,596	1,613	1,625	1,636	1,651	1,670	1,685	1,700
Ending Stocks	24	32	46	59	72	83	95	107	119	131	143
Domestic Use	1,534	1,572	1,622	1,655	1,685	1,709	1,730	1,757	1,789	1,816	1,844
Net Trade	-1,400	-1,462	-1,503	-1,520	-1,536	-1,547	-1,556	-1,571	-1,590	-1,604	-1,617

Chinese Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	315	325	330	332	334	335	336	337	338	339	340
(Thousand Hectares)											
Yield	35.24	36.29	36.96	37.46	37.89	38.29	38.68	39.06	39.43	39.81	40.18
Production	11,100	11,783	12,196	12,454	12,655	12,830	12,996	13,162	13,328	13,491	13,660
Sugarcane											
Area Harvested	1,620	1,640	1,657	1,668	1,678	1,687	1,696	1,706	1,715	1,724	1,734
(Thousand Hectares)											
Yield	71.60	71.88	72.43	73.11	73.87	74.67	75.48	76.30	77.13	77.96	78.79
Production	116,000	117,873	120,015	121,956	123,955	125,983	128,037	130,137	132,270	134,417	136,655
Sugar											
Production	15,785	16,132	16,481	16,786	17,092	17,399	17,710	18,028	18,350	18,675	19,014
Beginning Stocks	3,297	3,346	3,318	3,275	3,219	3,160	3,097	3,031	2,965	2,899	2,831
Domestic Supply	19,082	19,478	19,799	20,061	20,311	20,559	20,807	21,059	21,316	21,575	21,844
Consumption	16,335	16,660	17,067	17,475	17,891	18,309	18,727	19,161	19,610	20,062	20,519
Ending Stocks	3,346	3,318	3,275	3,219	3,160	3,097	3,031	2,965	2,899	2,831	2,761
Domestic Use	19,681	19,978	20,343	20,694	21,051	21,406	21,758	22,126	22,509	22,893	23,280
Net Trade	-599	-500	-544	-633	-740	-847	-951	-1,068	-1,194	-1,318	-1,435

Colombian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	405	404	401	399	398	399	401	403	406	409	412
(Thousand Hectares)											
Yield	76.54	77.49	78.23	78.87	79.47	80.05	80.62	81.19	81.75	82.32	82.88
(Metric Tons per Hectare)											
Production	31,000	31,297	31,408	31,455	31,626	31,921	32,307	32,746	33,202	33,683	34,187
Sugar											
Production	2,050	2,079	2,096	2,108	2,129	2,159	2,195	2,234	2,275	2,318	2,363
Beginning Stocks	168	63	31	26	29	36	43	50	57	65	72
Domestic Supply	2,218	2,142	2,127	2,135	2,159	2,194	2,237	2,284	2,333	2,383	2,436
Consumption	1,615	1,640	1,694	1,740	1,779	1,816	1,850	1,885	1,920	1,955	1,993
Ending Stocks	63	31	26	29	36	43	50	57	65	72	80
Domestic Use	1,678	1,672	1,720	1,769	1,815	1,858	1,900	1,943	1,985	2,027	2,072
Net Trade	540	470	408	365	344	336	337	342	348	356	363

Cuban Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	416	412	409	408	411	414	419	423	428	432	438
(Thousand Hectares)											
Yield	27.75	27.98	28.25	28.53	28.82	29.11	29.40	29.69	29.99	30.28	30.58
(Metric Tons per Hectare)											
Production	11,532	11,522	11,559	11,650	11,832	12,055	12,304	12,565	12,823	13,095	13,384
Sugar											
Production	1,350	1,351	1,358	1,371	1,395	1,423	1,455	1,489	1,522	1,557	1,594
Beginning Stocks	285	265	261	263	264	266	267	268	270	272	273
Domestic Supply	1,635	1,616	1,619	1,634	1,659	1,689	1,722	1,757	1,792	1,828	1,866
Consumption	710	718	729	734	739	744	748	753	759	762	766
Ending Stocks	265	261	263	264	266	267	268	270	272	273	274
Domestic Use	975	979	992	998	1,004	1,011	1,016	1,023	1,030	1,035	1,040
Net Trade	660	638	627	636	655	678	706	734	761	793	826

Egyptian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	62	62	62	62	63	64	65	66	66	67	68
					(Thousand Hectares)						
Yield	50.73	50.98	51.36	51.80	52.27	52.76	53.25	53.75	54.25	54.75	55.25
					(Metric Tons per Hectare)						
Production	3,145	3,145	3,185	3,238	3,304	3,375	3,451	3,528	3,606	3,685	3,766
					(Thousand Metric Tons)						
Sugarcane											
Area Harvested	141	141	140	140	141	141	141	142	142	143	143
					(Thousand Hectares)						
Yield	98.62	99.08	100.19	101.53	102.95	104.40	105.86	107.32	108.78	110.24	111.70
					(Metric Tons per Hectare)						
Production	13,906	13,961	14,074	14,243	14,470	14,714	14,969	15,228	15,477	15,724	15,972
					(Thousand Metric Tons)						
Sugar											
Production	1,575	1,584	1,603	1,628	1,660	1,694	1,729	1,765	1,801	1,836	1,873
Beginning Stocks	252	250	250	252	251	251	250	250	249	249	249
Domestic Supply	1,827	1,834	1,853	1,880	1,911	1,944	1,979	2,015	2,050	2,086	2,121
Consumption	2,617	2,689	2,774	2,842	2,912	2,983	3,054	3,130	3,209	3,288	3,370
Ending Stocks	250	250	252	251	251	250	250	249	249	249	248
Domestic Use	2,867	2,939	3,026	3,094	3,162	3,233	3,304	3,379	3,458	3,536	3,619
Net Trade	-1,040	-1,105	-1,173	-1,214	-1,252	-1,289	-1,325	-1,364	-1,408	-1,451	-1,497

European Union Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	1,570	1,415	1,398	1,383	1,373	1,366	1,360	1,356	1,352	1,348	1,345
					(Thousand Hectares)						
Yield	64.33	66.47	67.65	68.32	68.73	68.99	69.18	69.34	69.47	69.58	69.70
					(Metric Tons per Hectare)						
Production	101,000	94,031	94,565	94,462	94,350	94,218	94,104	94,016	93,939	93,830	93,763
Sugarcane											
Area Harvested	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
					(Thousand Hectares)						
Yield	62.03	62.86	63.75	64.66	65.57	66.48	67.40	68.31	69.23	70.14	71.06
					(Metric Tons per Hectare)						
Production	69	69	70	70	71	72	74	75	76	78	79
					(Thousand Metric Tons)						
Sugar											
Production	16,900	15,744	15,843	15,835	15,826	15,814	15,804	15,799	15,796	15,787	15,785
Beginning Stocks	4,769	3,668	3,647	3,578	3,503	3,424	3,343	3,262	3,181	3,100	3,019
Domestic Supply	21,669	19,412	19,490	19,414	19,329	19,237	19,147	19,062	18,977	18,887	18,804
Consumption	20,300	20,175	20,235	20,299	20,348	20,391	20,432	20,469	20,505	20,538	20,570
Ending Stocks	3,668	3,647	3,578	3,503	3,424	3,343	3,262	3,181	3,100	3,019	2,937
Domestic Use	23,968	23,822	23,814	23,803	23,772	23,734	23,694	23,651	23,605	23,557	23,507
Net Trade	-2,299	-4,409	-4,324	-4,389	-4,442	-4,497	-4,547	-4,589	-4,628	-4,669	-4,703

Guatemalan Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	215	218	220	223		(Thousand Hectares)					
					226	229	233	237	241	245	249
Yield	102.93	103.24	103.88	104.67		(Metric Tons per Hectare)					
					105.54	106.45	107.37	108.30	109.23	110.16	111.10
Production	22,130	22,505	22,891	23,319		(Thousand Metric Tons)					
					23,844	24,422	25,043	25,687	26,338	27,009	27,704
Sugar											
Production	2,340	2,391	2,443	2,501	2,569	2,643	2,723	2,806	2,890	2,977	3,068
Beginning Stocks	466	471	464	457	450	443	436	428	421	413	406
Domestic Supply	2,806	2,862	2,907	2,958	3,019	3,086	3,159	3,234	3,311	3,391	3,474
Consumption	745	766	790	810	830	850	870	891	912	933	954
Ending Stocks	471	464	457	450	443	436	428	421	413	406	398
Domestic Use	1,216	1,229	1,248	1,260	1,273	1,286	1,298	1,312	1,326	1,339	1,352
Net Trade	1,590	1,633	1,659	1,698	1,746	1,800	1,860	1,922	1,985	2,052	2,122

Indian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	4,410	4,228	4,248	4,299		(Thousand Hectares)					
					4,364	4,431	4,501	4,578	4,658	4,740	4,829
Yield	65.76	66.70	67.44	68.10		(Metric Tons per Hectare)					
					68.75	69.38	70.01	70.63	71.26	71.89	72.52
Production	290,000	281,985	286,483	292,771		(Thousand Metric Tons)					
					300,028	307,437	315,106	323,358	331,957	340,769	350,184
Sugar											
Production	22,870	22,182	22,558	23,076	23,671	24,280	24,910	25,587	26,294	27,018	27,792
Beginning Stocks	10,480	9,050	8,528	8,402	8,375	8,392	8,429	8,464	8,502	8,541	8,568
Domestic Supply	33,350	31,232	31,086	31,478	32,046	32,672	33,339	34,051	34,796	35,559	36,360
Consumption	25,000	25,395	26,214	26,878	27,573	28,295	29,001	29,741	30,493	31,191	31,899
Ending Stocks	9,050	8,528	8,402	8,375	8,392	8,429	8,464	8,502	8,541	8,568	8,592
Domestic Use	34,050	33,923	34,616	35,254	35,965	36,724	37,465	38,243	39,034	39,759	40,491
Net Trade	-700	-2,691	-3,530	-3,776	-3,919	-4,053	-4,127	-4,192	-4,238	-4,200	-4,131

Indonesian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	340	344	347	348		(Thousand Hectares)					
					349	350	351	352	353	354	356
Sugar											
Production	26,400	26,685	26,948	27,198		(Metric Tons per Hectare)					
					78.57	79.09	79.62	80.16	80.71	81.26	81.81
Beginning Stocks	2,060	2,085	2,108	2,130	2,153	2,175	2,198	2,221	2,245	2,272	2,300
Domestic Supply	1,290	1,050	988	981	988	1,000	1,013	1,026	1,039	1,052	1,064
Consumption	3,350	3,135	3,096	3,111	3,141	3,175	3,211	3,247	3,285	3,324	3,364
Ending Stocks	4,500	4,575	4,661	4,744	4,826	4,906	4,992	5,077	5,161	5,242	5,325
Domestic Use	1,050	988	981	988	1,000	1,013	1,026	1,039	1,052	1,064	1,076
Net Trade	5,550	5,563	5,641	5,733	5,826	5,919	6,018	6,116	6,213	6,306	6,401
	-2,200	-2,428	-2,545	-2,621	-2,685	-2,744	-2,808	-2,869	-2,928	-2,982	-3,037

Iranian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	158	157	153	149		(Thousand Hectares)					
					148	150	150	151	151	151	151
Sugarcane											
Area Harvested	65	65	63	62		(Thousand Hectares)					
					62	62	62	63	63	64	64
Production	5,251	5,245	5,121	5,022		(Metric Tons per Hectare)					
					33.97	34.21	34.46	34.70	34.95	35.19	35.44
Beginning Stocks	1,400	1,401	1,375	1,352	1,356	1,375	1,393	1,410	1,427	1,445	1,463
Domestic Supply	712	315	300	321	349	376	405	436	467	498	529
Consumption	2,112	1,716	1,675	1,673	1,705	1,751	1,798	1,846	1,894	1,943	1,992
Ending Stocks	2,460	2,549	2,628	2,675	2,680	2,719	2,756	2,794	2,833	2,870	2,908
Domestic Use	315	300	321	349	376	405	436	467	498	529	560
Net Trade	2,775	2,849	2,948	3,024	3,056	3,124	3,192	3,261	3,331	3,399	3,468
	-663	-1,133	-1,273	-1,351	-1,351	-1,373	-1,394	-1,415	-1,437	-1,457	-1,476

Japanese Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	68	69	69	70	70	70	71	71	71	71	71
Yield	60.64	61.12	61.65	62.19	62.74	63.29	63.84	64.39	64.95	65.50	66.05
Production	4,147	4,204	4,272	4,336	4,396	4,453	4,507	4,558	4,604	4,647	4,689
Sugarcane											
Area Harvested	23	23	24	24	24	24	24	24	25	25	25
Yield	54.75	55.31	55.93	56.58	57.24	57.91	58.57	59.24	59.90	60.57	61.24
Production	1,266	1,288	1,315	1,342	1,369	1,395	1,421	1,446	1,469	1,492	1,514
Sugar											
Production	940	983	1,005	1,025	1,045	1,065	1,084	1,102	1,120	1,136	1,153
Beginning Stocks	370	360	356	355	355	354	354	354	355	355	356
Domestic Supply	1,310	1,343	1,361	1,380	1,400	1,419	1,438	1,457	1,474	1,491	1,508
Consumption	2,290	2,276	2,271	2,266	2,260	2,254	2,248	2,242	2,236	2,229	2,221
Ending Stocks	360	356	355	355	354	354	354	355	355	356	356
Domestic Use	2,650	2,632	2,626	2,620	2,614	2,609	2,602	2,596	2,591	2,584	2,577
Net Trade	-1,340	-1,289	-1,265	-1,240	-1,214	-1,190	-1,164	-1,140	-1,117	-1,093	-1,068

Malaysian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	12	12	11	11	11	11	11	11	11	11	11
Yield	67.04	67.29	67.54	67.81	68.08	68.34	68.61	68.88	69.15	69.42	69.68
Production	784	779	772	767	765	764	765	765	766	767	769
Sugar											
Production	30	31	31	32	32	33	34	35	35	36	37
Beginning Stocks	238	153	134	131	131	132	133	134	135	136	136
Domestic Supply	268	184	165	163	164	165	167	168	170	172	174
Consumption	1,350	1,390	1,439	1,485	1,532	1,578	1,624	1,673	1,721	1,767	1,813
Ending Stocks	153	134	131	131	132	133	134	135	136	136	137
Domestic Use	1,503	1,524	1,570	1,616	1,664	1,711	1,758	1,808	1,856	1,903	1,951
Net Trade	-1,235	-1,340	-1,405	-1,453	-1,500	-1,545	-1,591	-1,639	-1,686	-1,731	-1,777

Mexican Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	668	680	685	689	693	697	701	704	706	710	713
(Thousand Hectares)											
Yield	73.35	74.07	74.66	75.19	75.70	76.21	76.71	77.21	77.71	78.21	78.71
Production	49,000	50,361	51,167	51,814	52,453	53,103	53,750	54,334	54,901	55,495	56,104
Sugar											
Production	5,850	6,068	6,221	6,357	6,493	6,632	6,772	6,905	7,038	7,175	7,315
Beginning Stocks	1,388	1,033	956	948	955	967	980	992	1,003	1,013	1,024
Domestic Supply	7,238	7,101	7,177	7,305	7,448	7,599	7,752	7,897	8,041	8,188	8,339
Consumption	5,780	5,791	5,894	5,999	6,105	6,215	6,329	6,450	6,574	6,696	6,819
Ending Stocks	1,033	956	948	955	967	980	992	1,003	1,013	1,024	1,035
Domestic Use	6,813	6,746	6,842	6,955	7,073	7,195	7,322	7,453	7,587	7,720	7,854
Net Trade	425	354	336	350	376	404	430	444	454	468	485

Moroccan Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	59	60	60	60	61	61	62	62	62	63	63
(Thousand Hectares)											
Yield	51.44	52.02	52.47	52.86	53.22	53.56	53.90	54.23	54.56	54.89	55.22
Production	3,050	3,111	3,149	3,183	3,226	3,272	3,319	3,365	3,408	3,451	3,494
Sugarcane											
Area Harvested	15	15	16	16	16	16	16	16	16	16	16
(Thousand Hectares)											
Yield	68.12	68.62	69.15	69.70	70.27	70.84	71.41	71.99	72.57	73.15	73.73
Production	1,027	1,060	1,079	1,093	1,109	1,124	1,139	1,153	1,167	1,181	1,195
Sugar											
Production	610	625	634	642	651	661	671	681	690	699	709
Beginning Stocks	52	49	54	63	71	79	87	94	103	111	120
Domestic Supply	662	674	688	704	722	740	758	775	793	810	828
Consumption	1,225	1,257	1,301	1,339	1,378	1,419	1,461	1,505	1,548	1,592	1,637
Ending Stocks	49	54	63	71	79	87	94	103	111	120	128
Domestic Use	1,274	1,311	1,363	1,409	1,457	1,505	1,555	1,607	1,660	1,711	1,765
Net Trade	-612	-638	-676	-705	-735	-766	-798	-832	-867	-901	-937

Pakistani Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	3	3	3	3	3	3	3	3	3	3	3
Yield	30.44	31.27	31.82	32.27	32.67	33.07	33.45	33.83	34.22	34.60	34.98
Production	95	98	99	100	101	103	105	107	109	111	113
Sugarcane											
Area Harvested	1,045	1,077	1,085	1,086	1,089	1,093	1,096	1,100	1,103	1,107	1,111
Yield	53.00	53.19	53.46	53.76	54.08	54.41	54.73	55.06	55.39	55.72	56.05
Production	55,385	57,297	57,995	58,408	58,917	59,453	60,007	60,560	61,095	61,660	62,256
Sugar											
Production	3,562	3,696	3,753	3,791	3,836	3,883	3,932	3,980	4,027	4,077	4,129
Beginning Stocks	1,163	1,050	1,004	990	984	982	982	983	984	986	987
Domestic Supply	4,725	4,746	4,757	4,781	4,821	4,866	4,914	4,963	5,011	5,063	5,116
Consumption	4,300	4,428	4,595	4,724	4,862	4,987	5,110	5,239	5,369	5,488	5,608
Ending Stocks	1,050	1,004	990	984	982	982	983	984	986	987	988
Domestic Use	5,350	5,432	5,585	5,709	5,845	5,969	6,093	6,223	6,355	6,475	6,596
Net Trade	-625	-685	-828	-927	-1,024	-1,103	-1,179	-1,261	-1,343	-1,412	-1,480

Peruvian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	70	71	73	73	74	75	75	76	76	76	77
Yield	118.57	120.86	122.47	123.79	124.97	126.10	127.20	128.30	129.38	130.47	131.55
Production	8,300	8,636	8,887	9,097	9,284	9,432	9,567	9,694	9,813	9,936	10,064
Sugar											
Production	995	1,037	1,068	1,095	1,119	1,138	1,155	1,172	1,188	1,205	1,222
Beginning Stocks	210	193	183	176	168	161	154	147	141	134	127
Domestic Supply	1,205	1,230	1,251	1,270	1,287	1,299	1,310	1,320	1,329	1,338	1,349
Consumption	1,100	1,126	1,158	1,184	1,217	1,249	1,282	1,316	1,352	1,387	1,424
Ending Stocks	193	183	176	168	161	154	147	141	134	127	120
Domestic Use	1,293	1,309	1,334	1,352	1,378	1,403	1,429	1,457	1,486	1,514	1,544
Net Trade	-88	-79	-82	-82	-91	-104	-119	-137	-157	-176	-196

Philippine Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	393	394	394	394		(Thousand Hectares)					
					395	397	400	403	406	409	412
(Metric Tons per Hectare)											
Yield	62.34	62.81	63.47	64.22	65.02	65.83	66.65	67.48	68.31	69.14	69.97
Production											
	24,500	24,769	25,020	25,311	25,707	26,165	26,668	27,193	27,723	28,277	28,861
Sugar											
Production	2,200	2,227	2,252	2,280	2,319	2,363	2,411	2,461	2,512	2,565	2,620
Beginning Stocks	547	527	522	522	522	522	523	523	523	524	524
Domestic Supply	2,747	2,754	2,774	2,802	2,841	2,885	2,933	2,984	3,035	3,088	3,144
Consumption	1,900	1,957	2,022	2,081	2,141	2,202	2,264	2,330	2,397	2,463	2,532
Ending Stocks	527	522	522	522	522	523	523	523	524	524	524
Domestic Use	2,427	2,479	2,544	2,603	2,664	2,724	2,787	2,853	2,921	2,987	3,055
Net Trade	320	275	230	199	177	160	146	131	114	101	89

Russian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	1,070	1,072	1,083	1,094		(Thousand Hectares)					
					1,108	1,122	1,138	1,154	1,169	1,185	1,201
(Metric Tons per Hectare)											
Yield	21.96	22.16	22.39	22.64	22.89	23.15	23.41	23.68	23.94	24.21	24.47
Production											
	23,500	23,762	24,242	24,757	25,352	25,985	26,640	27,312	27,994	28,684	29,391
Sugar											
Production	2,950	2,987	3,050	3,119	3,198	3,281	3,368	3,457	3,548	3,640	3,734
Beginning Stocks	400	400	406	422	429	431	433	433	434	435	435
Domestic Supply	3,350	3,387	3,456	3,541	3,626	3,713	3,801	3,890	3,982	4,075	4,169
Consumption	5,850	5,883	5,970	5,991	6,008	6,018	6,027	6,040	6,054	6,056	6,060
Ending Stocks	400	406	422	429	431	433	433	434	435	435	435
Domestic Use	6,250	6,288	6,393	6,420	6,439	6,451	6,460	6,474	6,490	6,491	6,495
Net Trade	-2,900	-2,902	-2,937	-2,878	-2,813	-2,738	-2,659	-2,584	-2,508	-2,416	-2,327

South African Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	310	310	309	310		(Thousand Hectares)					
					311	313	315	317	318	320	322
(Metric Tons per Hectare)											
Yield	62.00	62.24	62.53	62.83	63.15	63.48	63.81	64.14	64.47	64.80	65.13
Production											
	19,220	19,306	19,345	19,459	19,646	19,860	20,084	20,301	20,514	20,743	20,987
Sugar											
Production	2,315	2,328	2,336	2,353	2,378	2,407	2,437	2,466	2,495	2,527	2,559
Beginning Stocks	227	137	138	157	181	206	232	259	287	314	341
Domestic Supply	2,542	2,465	2,473	2,510	2,559	2,613	2,669	2,726	2,782	2,841	2,900
Consumption	1,605	1,632	1,655	1,670	1,688	1,707	1,734	1,766	1,800	1,833	1,869
Ending Stocks	137	138	157	181	206	232	259	287	314	341	367
Domestic Use	1,742	1,770	1,812	1,850	1,894	1,940	1,993	2,053	2,114	2,174	2,237
Net Trade	800	696	661	659	665	674	676	672	668	667	664

South Korean Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Production											
	0	0	0	0	0	0	0	0	0	0	0
(Thousand Metric Tons)											
Beginning Stocks	160	115	155	167	171	173	175	176	178	179	180
Domestic Supply	160	115	155	167	171	173	175	176	178	179	180
Consumption	1,275	1,326	1,354	1,366	1,378	1,389	1,400	1,411	1,422	1,432	1,442
Ending Stocks	115	155	167	171	173	175	176	178	179	180	182
Domestic Use	1,390	1,481	1,521	1,537	1,551	1,564	1,577	1,589	1,601	1,613	1,624
Net Trade	-1,230	-1,366	-1,366	-1,370	-1,380	-1,391	-1,402	-1,413	-1,424	-1,433	-1,444

Thai Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	1,000	1,034	1,054	1,066	1,074	1,079	1,082	1,085	1,089	1,093	1,098
(Metric Tons per Hectare)											
Yield	74.00	74.38	74.79	75.22	75.65	76.10	76.54	76.99	77.43	77.88	78.33
Production											
Production	74,000	76,917	78,830	80,171	81,215	82,073	82,836	83,560	84,300	85,102	85,971
Sugar											
Production	7,900	8,227	8,447	8,607	8,735	8,844	8,943	9,038	9,134	9,238	9,350
Beginning Stocks	2,465	2,965	3,138	3,204	3,224	3,232	3,236	3,238	3,240	3,242	3,243
Domestic Supply	10,365	11,192	11,585	11,811	11,959	12,076	12,179	12,276	12,375	12,481	12,593
Consumption	2,300	2,334	2,388	2,423	2,470	2,514	2,562	2,610	2,657	2,701	2,748
Ending Stocks	2,965	3,138	3,204	3,224	3,232	3,236	3,238	3,240	3,242	3,243	3,244
Domestic Use	5,265	5,472	5,591	5,647	5,702	5,750	5,800	5,850	5,899	5,944	5,992
Net Trade	5,100	5,720	5,994	6,164	6,258	6,326	6,378	6,425	6,476	6,537	6,601

Turkish Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	350	359	362	362	363	364	364	365	365	366	367
(Metric Tons per Hectare)											
Yield	42.86	44.32	45.22	45.89	46.47	47.01	47.53	48.05	48.56	49.08	49.59
Production											
Production	15,000	15,928	16,356	16,621	16,876	17,105	17,325	17,537	17,742	17,954	18,176
Sugar											
Production	2,100	2,233	2,296	2,337	2,376	2,412	2,446	2,480	2,512	2,546	2,581
Beginning Stocks	470	530	553	565	569	571	572	574	575	577	578
Domestic Supply	2,570	2,763	2,849	2,902	2,945	2,983	3,019	3,053	3,088	3,123	3,159
Consumption	2,000	2,033	2,099	2,141	2,193	2,250	2,308	2,368	2,429	2,488	2,547
Ending Stocks	530	553	565	569	571	572	574	575	577	578	579
Domestic Use	2,530	2,586	2,664	2,710	2,764	2,823	2,882	2,943	3,006	3,066	3,126
Net Trade	40	177	185	192	181	160	137	110	82	57	33

Ukrainian Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugar Beet											
Area Harvested	370	374	369	366	364	364	363	363	364	365	366
(Thousand Hectares)											
Yield	24.32	26.69	28.06	28.90	29.42	29.79	30.06	30.28	30.47	30.64	30.81
Production	9,000	9,986	10,343	10,563	10,718	10,828	10,918	11,004	11,087	11,170	11,264
Sugar											
Production	1,300	1,443	1,496	1,529	1,552	1,569	1,584	1,597	1,610	1,623	1,638
Beginning Stocks	535	35	212	294	332	352	363	370	375	378	380
Domestic Supply	1,835	1,478	1,708	1,823	1,885	1,921	1,946	1,967	1,985	2,002	2,019
Consumption	2,100	2,119	2,158	2,189	2,217	2,241	2,259	2,274	2,288	2,297	2,307
Ending Stocks	35	212	294	332	352	363	370	375	378	380	382
Domestic Use	2,135	2,331	2,451	2,521	2,569	2,604	2,628	2,648	2,666	2,678	2,689
Net Trade	-300	-852	-743	-698	-684	-683	-682	-682	-681	-676	-670

Venezuelan Sugar Supply and Utilization

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
Sugarcane											
Area Harvested	135	138	139	139	140	141	141	142	143	144	145
(Thousand Hectares)											
Yield	70.37	70.80	71.13	71.41	71.66	71.91	72.15	72.39	72.63	72.87	73.10
Production	9,500	9,740	9,863	9,952	10,035	10,112	10,189	10,273	10,369	10,482	10,608
Sugar											
Production	720	739	750	757	765	771	778	786	794	804	815
Beginning Stocks	251	316	329	333	335	336	338	339	340	341	342
Domestic Supply	971	1,055	1,078	1,090	1,099	1,108	1,116	1,125	1,135	1,145	1,156
Consumption	1,055	1,080	1,103	1,124	1,145	1,168	1,190	1,210	1,229	1,246	1,263
Ending Stocks	316	329	333	335	336	338	339	340	341	342	342
Domestic Use	1,371	1,409	1,436	1,458	1,482	1,506	1,529	1,550	1,570	1,587	1,605
Net Trade	-400	-354	-358	-368	-383	-398	-413	-425	-435	-442	-449

Per Capita Sugar Consumption of Selected Countries

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
(Kilograms)											
Algeria	38.91	39.35	39.95	40.37	40.84	41.33	41.81	42.33	42.87	43.37	43.90
Argentina	46.44	46.75	47.34	47.75	48.20	48.67	49.15	49.66	50.15	50.64	51.12
Australia	51.73	57.38	58.20	58.64	59.11	59.59	60.04	60.54	61.03	61.51	61.99
Brazil	59.88	60.39	60.92	61.44	61.97	62.51	63.04	63.61	64.19	64.74	65.33
Canada	45.09	45.62	46.31	46.52	46.67	46.66	46.61	46.68	46.88	46.96	47.05
China	12.20	12.36	12.58	12.79	13.01	13.22	13.44	13.67	13.91	14.16	14.41
Colombia	35.38	35.45	36.12	36.61	36.96	37.25	37.47	37.72	37.96	38.19	38.48
Cuba	62.00	62.54	63.37	63.65	63.98	64.31	64.59	64.95	65.32	65.56	65.86
Egypt	31.50	31.84	32.34	32.62	32.91	33.22	33.53	33.88	34.26	34.63	35.03
European Union	41.34	41.04	41.13	41.23	41.30	41.37	41.44	41.51	41.58	41.65	41.73
Guatemala	56.11	56.49	57.18	57.44	57.76	58.06	58.34	58.68	59.02	59.29	59.60
India	21.44	21.45	21.81	22.03	22.27	22.53	22.77	23.03	23.29	23.51	23.73
Indonesia	18.73	18.83	18.97	19.11	19.24	19.37	19.52	19.66	19.81	19.94	20.07
Iran	37.03	38.02	38.82	39.12	38.80	38.95	39.08	39.21	39.36	39.48	39.62
Japan	18.02	17.95	17.96	17.97	17.98	18.00	18.02	18.05	18.09	18.12	18.15
Malaysia	52.50	53.12	54.07	54.87	55.67	56.40	57.13	57.90	58.61	59.23	59.86
Mexico	51.97	51.49	51.83	52.18	52.53	52.92	53.33	53.79	54.27	54.74	55.22
Morocco	35.14	35.54	36.25	36.78	37.34	37.93	38.53	39.18	39.80	40.41	41.05
Pakistan	24.40	24.65	25.10	25.34	25.61	25.81	26.00	26.21	26.42	26.58	26.74
Peru	37.23	37.64	38.27	38.67	39.30	39.91	40.52	41.18	41.88	42.54	43.26
Philippines	19.39	19.59	19.86	20.05	20.26	20.45	20.66	20.89	21.12	21.34	21.56
Russia	41.77	42.20	43.03	43.39	43.72	44.02	44.31	44.65	45.00	45.26	45.56
South Africa	32.72	33.23	33.78	34.21	34.73	35.29	35.91	36.54	37.20	37.84	38.55
South Korea	26.28	27.26	27.77	27.95	28.15	28.33	28.51	28.70	28.89	29.06	29.24
Thailand	34.90	35.21	35.80	36.13	36.64	37.11	37.65	38.18	38.69	39.17	39.70
Turkey	27.54	27.73	28.36	28.66	29.10	29.59	30.10	30.63	31.17	31.68	32.19
Ukraine	45.95	46.65	47.80	48.80	49.74	50.61	51.32	52.01	52.67	53.24	53.83
United States	31.44	30.59	30.54	30.65	30.57	30.66	30.78	30.92	31.00	31.12	31.27
Venezuela	39.34	39.67	39.92	40.06	40.25	40.46	40.64	40.76	40.84	40.87	40.89

WORLD BIOFUELS

World Ethanol

The world ethanol price increased 13.7% in 2008, to \$1.76 per gallon. It is projected to decrease by almost 16%, to \$1.48 per gallon, in 2009 because of the dramatic drop in crude oil prices coupled with a significant reduction in U.S. ethanol imports. The ethanol price continues its downward trend until 2011, after which it begins to increase because of higher ethanol demand from the U.S. brought about by the EISA 2007 biofuel mandates. World net trade increased by 20.2% in 2008; it decreases in 2009 by 1.3%. As world demand for ethanol increases more than production over the projection period, net trade is expected to rise by 302.5%, reaching 4.9 billion gallons by 2018.

Brazil's ethanol production totaled 6.7 billion gallons in 2008, an increase of 21%. This translates into 293.3 mmt of sugarcane used in ethanol production. Production of ethanol in Brazil increases 111.2% by the end of the projection period, to 14.1 billion gallons. Sugarcane used in ethanol production increases 88.2%, reaching 552 mmt by 2018. Brazil's ethanol consumption increased in 2008 by 21.3%, to 5.5 billion gallons. Its ethanol consumption is projected to increase 66.9% by 2018. Brazil's net ethanol exports reach 4.9 billion gallons in 2018, an increase of 320.4%, partly because of the increase in U.S. ethanol import demand.

Ethanol production in the EU increased almost 26% in 2008. EU ethanol production is projected to reach 1.6 billion gallons in 2018, an increase of 175.1%. Consumption in the EU increased 26.2% in 2008, to 0.9 billion gallons. It is expected to reach 2.2 billion gallons in 2018, an increase of 146% over the decade. Total EU biofuels consumption reaches 3.1% of transport fuels in 2018. EU net imports rise from 318 million gallons in 2008 to 617 million gallons by 2018 as consumption increases more than production.

Chinese fuel ethanol production increased 9.3% in 2008, to 500 million gallons. Production is projected to continue to increase and reach 622.8 million gallons by 2018. Ethanol consumption in China increased in 2008 to 448 million gallons. It increases 59.2%, to 713.8 million gallons, by 2018. China becomes a net importer of ethanol in 2011. Its net imports reach 91 million gallons in 2018.

In India, ethanol is produced mainly from molasses, a co-product in sugar production from sugarcane. India's ethanol production decreased by 9.8%, from 571 million gallons in 2007 to 515 million gallons in 2008 because of a decline in sugarcane production. Production rises to 578 million gallons in 2018, an increase of 12.2%. Consumption of ethanol in India was 490 million gallons in 2008 and is projected to increase 51%, to 739.5 million gallons, in 2018. India's net imports increase to 171.6 million gallons in 2018.

World Biodiesel

The world price of biodiesel (Central Europe FOB) decreases to \$3.74 per gallon in 2009, driven by a lower crude oil price and large supplies in the world market. The price then recovers as EU countries attempt to achieve their biofuel targets and because of rebounding crude oil prices. Expanded production in Argentina and Brazil also contributes to the temporary price decline and to a sharp increase in exports before the start of the countries' B5 mandates. However, the world price increases to \$5.56 per gallon by 2018, driven by higher demand from the EU. World net trade plunges in 2010 as Argentina, Brazil, and Indonesia increase their mandate-driven consumption. Net trade averages 786 million gallons over the rest of the baseline, driven mainly by strong EU demand.

Currently, the EU has the world's most developed biodiesel industry. Production increased 6% in 2008, but it declines 7% in 2009 because of strong competition from abroad. Domestic production then recovers and reaches 2.6 billion gallons by 2018. Pushed by the biofuel target, domestic consumption continues to grow during the outlook period, reaching 2.9 billion gallons by 2018. The biodiesel share of diesel in transport is, however, still only 4.2%. Net imports increase rapidly between 2008 and 2009 as a sizeable volume of biodiesel is delivered from Argentina and Brazil. However, net imports slow down when these two countries' B5 mandates are executed in 2010. Net imports are expected to hit 291 million gallons at the end of the decade.

Encouraged by its biodiesel mandate and the world market, Argentina's biodiesel production expands from 269 million gallons to 500 million gallons between 2008 and 2018. Domestic consumption jumps significantly in 2010 as the B5 mandate is exercised. Consumption continues to increase for the remainder of the outlook period but at a slower pace, hitting 230 million gallons by 2018. Net exports grow to 320 million gallons in 2009 and then drop by 41% the following year because of the mandate. Trade rebounds in 2011 and grows to 270 million gallons by 2018.

Similar to the outlook in Argentina, Brazil's biodiesel production is motivated by its mandate and the international market. Production increases to 875 million gallons by the end of the decade. Consumption jumps in 2008, 2009, and 2010 because of the mandate (B2.5 by 2008, B3 by 2009, and B5 by 2010). Domestic use is projected to reach 719 million gallons by 2018. Because of the mandate, Brazil's net exports drop by 59% in 2010 and then grow for the remainder of the outlook, supplying 157 million gallons by 2018.

Indonesian production increased from 30 million gallons in 2007 to 105 million gallons in 2008, driven by strong production margins. The growth in the industry slows down over the rest of the baseline because of a rise in palm oil prices relative to biodiesel. By the end of the period, production hits 309 million gallons. A domestic consumption mandate is implemented starting in 2009. As the mandate-driven consumption increases, net exports decline from their peak of 173 million gallons in 2012 to 112 million gallons in 2018.

Ethanol Trade

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Net Exporters											
Brazil	1,165	1,169	1,466	1,820	2,124	2,395	2,818	3,268	3,647	4,236	4,896
China	52	31	13	-9	-21	-35	-44	-54	-67	-78	-91
Total Net Exports *	1,216	1,201	1,479	1,820	2,124	2,395	2,818	3,268	3,647	4,236	4,896
Net Importers											
Canada	165	260	312	364	412	460	503	550	599	657	711
European Union	318	318	352	401	436	467	494	523	559	586	617
India	0	23	59	90	107	120	130	139	153	163	172
Japan	149	196	234	273	308	343	377	412	447	481	516
South Korea	81	104	132	154	175	195	215	236	257	276	297
United States	436	195	250	353	454	528	772	1,037	1,211	1,605	2,070
ROW	67	104	140	176	212	247	282	317	353	388	423
Total Net Imports *	1,216	1,201	1,479	1,820	2,124	2,395	2,818	3,268	3,647	4,236	4,896
Prices											
(U.S. Dollars per Gallon)											
Anhydrous Ethanol Price, Brazil **	1.76	1.48	1.36	1.29	1.34	1.37	1.45	1.51	1.53	1.62	1.69
Ethanol, FOB Omaha	2.47	1.68	1.75	1.81	1.91	1.99	2.10	2.19	2.17	2.06	2.00

Note: 1 gallon = 3.7857 liters; 1 metric ton = 1237.1644 liters.

* Total net exports are the sum of all positive net exports.

** Represents world ethanol price.

Biodiesel Trade

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Net Exporters											
Argentina	264	320	188	218	239	253	262	268	270	271	270
Brazil	-1	167	69	103	127	144	154	160	162	161	157
Indonesia	102	117	149	166	173	171	165	155	143	128	112
Malaysia	51	47	48	48	48	48	48	47	47	47	47
United States	353	322	284	244	199	178	174	178	184	187	184
Total Net Exports *	771	974	737	779	785	794	803	809	806	794	769
Net Importers											
European Union	300	487	253	296	304	313	323	329	327	315	291
Japan	4	19	17	16	15	15	15	15	15	14	14
ROW	465	468	468	467	466	466	466	465	465	465	464
Total Net Imports *	771	974	737	779	785	794	803	809	806	794	769
Prices											
(U.S. Dollars per Gallon)											
Central Europe FOB Price **	5.25	3.74	4.08	4.47	4.73	4.86	5.02	5.14	5.28	5.43	5.56
Biodiesel Plant	4.64	3.45	3.53	3.84	4.12	4.24	4.33	4.41	4.49	4.59	4.69

Note: 1 gallon = 3.7857 liters; 1 metric ton = 1136.36 liters.

* Total net exports are the sum of all positive net exports.

** Represents world biodiesel price.

U.S. Biofuels Production and Consumption

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Ethanol											
Production	9,262	10,295	11,504	12,384	13,185	13,715	14,508	15,320	15,990	16,361	16,736
Consumption	9,511	10,387	11,680	12,693	13,597	14,220	15,243	16,318	17,163	17,936	18,781
Net Trade	-436	-195	-250	-353	-454	-528	-772	-1,037	-1,211	-1,605	-2,070
Biodiesel											
Production	677	804	921	1,040	1,149	1,178	1,174	1,178	1,184	1,187	1,184
From Soybean Oil	394	429	496	578	656	668	657	658	661	663	660
From Other Fats and Oils	284	375	425	462	493	510	517	520	522	524	525
Consumption	324	482	638	796	950	1,000	1,000	1,000	1,000	1,000	1,000
Net Trade	353	322	284	244	199	178	174	178	184	187	184

Argentine Biofuels Production and Consumption

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Biodiesel											
Production	269	333	380	414	439	458	472	482	490	496	500
Consumption	6	13	192	196	200	205	210	214	219	225	230
Net Trade	264	320	188	218	239	253	262	268	270	271	270
Use in Biodiesel Production											
Soybean Oil	941	1,157	1,314	1,427	1,507	1,564	1,604	1,631	1,649	1,661	1,667

Brazilian Biofuels Production and Consumption

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Ethanol											
Production	6,673	7,749	8,546	9,140	9,662	10,190	10,843	11,558	12,258	13,119	14,091
Consumption	5,509	6,508	7,067	7,318	7,539	7,796	8,027	8,291	8,612	8,885	9,197
Net Trade	1,165	1,169	1,466	1,820	2,124	2,395	2,818	3,268	3,647	4,236	4,896
Use in Ethanol Production											
Sugarcane	293,259	326,134	356,811	378,589	397,029	415,414	438,506	463,708	487,905	518,019	551,996
Biodiesel											
Production	291	528	682	728	765	794	818	837	853	865	875
Consumption	266	361	613	626	638	651	664	677	691	704	719
Net Trade	-1	167	69	103	127	144	154	160	162	161	157
Use in Biodiesel Production											
Soybean Oil	863	1,557	1,997	2,115	2,205	2,273	2,323	2,359	2,384	2,400	2,408

Canadian Biofuels Production and Consumption

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Ethanol											
Production	222	247	261	261	263	266	271	275	284	292	301
Consumption	387	507	573	625	675	726	774	825	883	949	1,012
Net Trade	-165	-260	-312	-364	-412	-460	-503	-550	-599	-657	-711
Use in Ethanol Production											
Corn	1,615	1,796	1,898	1,898	1,914	1,936	1,969	2,003	2,064	2,122	2,191
Wheat	695	772	816	816	823	832	847	861	887	912	942

Chinese Biofuels Production and Consumption

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Ethanol											
Production	500	509	516	522	535	548	562	577	591	607	623
Consumption	448	478	503	531	556	582	607	631	659	686	714
Net Trade	52	31	13	-9	-21	-35	-44	-54	-67	-78	-91
Use in Ethanol Production											
Corn	3,403	3,630	3,690	3,737	3,798	3,890	3,985	4,091	4,197	4,303	4,417

European Union Biofuels Production and Consumption

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Ethanol											
Production	569	683	800	889	983	1,079	1,178	1,276	1,370	1,469	1,566
Consumption	887	1,001	1,152	1,290	1,420	1,547	1,672	1,799	1,930	2,056	2,183
Net Trade	-318	-318	-352	-401	-436	-467	-494	-523	-559	-586	-617
Use in Ethanol Production											
Wheat	1,385	1,663	1,947	2,163	2,393	2,627	2,868	3,105	3,335	3,576	3,812
Corn	378	453	531	590	653	716	782	847	910	975	1,040
Barley	630	756	885	983	1,088	1,194	1,304	1,411	1,516	1,625	1,733
Biodiesel											
Production	1,711	1,594	2,048	2,148	2,228	2,257	2,325	2,386	2,454	2,527	2,617
Consumption	2,012	2,083	2,303	2,446	2,533	2,571	2,649	2,716	2,782	2,844	2,909
Net Trade	-300	-487	-253	-296	-304	-313	-323	-329	-327	-315	-291
Use in Biodiesel Production											
Rapeseed Oil	5,077	3,131	4,439	4,713	5,022	5,265	5,533	5,723	5,933	6,156	6,343
Soybean Oil	702	1,074	1,260	1,284	1,291	1,264	1,253	1,233	1,217	1,200	1,184
Sunflower Oil	54	474	504	515	526	528	532	535	539	543	549

Indian Biofuels Production and Consumption

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Ethanol											
Production	515	497	488	487	498	509	523	537	548	563	578
Consumption	490	513	543	572	595	620	642	666	693	716	739
Net Trade	0	-23	-59	-90	-107	-120	-130	-139	-153	-163	-172

Indonesian Biofuels Production and Consumption

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Biodiesel											
Production	105	172	218	249	270	284	293	300	304	307	309
Consumption	3	55	69	83	97	112	128	144	161	179	197
Net Trade	102	117	149	166	173	171	165	155	143	128	112
Use in Biodiesel Production											
Palm Oil	367	601	760	869	942	992	1,025	1,048	1,063	1,073	1,079

Japanese Biofuels Production and Consumption

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Ethanol											
Net Trade	-149	-196	-234	-273	-308	-343	-377	-412	-447	-481	-516
Biodiesel											
Net Trade	-4	-19	-17	-16	-15	-15	-15	-15	-15	-14	-14

South Korean Biofuels Production and Consumption

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Ethanol											
Net Trade	-81	-104	-132	-154	-175	-195	-215	-236	-257	-276	-297

Malaysian Biofuels Production and Consumption

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Biodiesel											
Net Trade	51	47	48	48	48	48	48	47	47	47	47

Rest of World Biofuels Production and Consumption

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Ethanol											
Net Trade	-67	-104	-140	-176	-212	-247	-282	-317	-353	-388	-423
Biodiesel											
Net Trade	-465	-468	-468	-467	-466	-466	-466	-465	-465	-465	-464

WORLD MEAT

World Beef and Veal

World beef trade recovers and is projected to continue to grow by an average rate of 2.0% throughout the decade, ending at 7.0 mmt in 2018. The beef price remains strong over the projection period, reaching \$102.8/cwt in 2018. Responding to the recovery in trade and the rising world price, beef production increases at an annual rate of 1.1% (6.0 mmt) over the next decade, reaching 60.7 mmt in 2018.

Australia loses 1.3 percentage points of market share. Brazil keeps the leading beef exporter position and further expands its market share by 5.6 points by 2018. Argentina loses 2.6 points of market share, as it favors domestic use over exports, and India gains 1.8 points. Canada loses 2.2 percentage points of market share in beef trade, while New Zealand gains 1.1 points. China becomes a net importer over the projection period.

Argentina's export controls, together with herd rebuilding, soften medium-term exports. But easing of the export controls and rising cattle numbers, coupled with currency depreciation throughout the next decade, allow Argentina to expand its net exports in the outer years. Argentine exports are projected to reach 566 tmt in 2018.

Because of volume restrictions imposed by the EU and higher prices in some destinations, Brazil's beef exports decreased 12.4% in 2008. Its exports grow 3.9% over the next decade and reach 2.74 mmt in 2018. Brazil has several states that are FMD-free, and these account for 84% of its animal inventory. Improvement in productivity, favorable domestic policies, aggressive promotion, and a weakening currency enhance Brazil's competitiveness.

With re-entry of U.S. beef in many markets, Australia's net exports decline slightly in the short run. Aided by a weakening currency, Australia posts a 2.0% growth rate in its net exports over the decade. Exports of live animals grow by 3.8% annually, reaching 1.13 million head in 2018.

New Zealand benefited from the compromised SPS status of other beef exporters, as well as from growth in its dairy sector. Exports continue to grow over the rest of the decade at 4.5% annually, reaching 779 tmt in 2018.

Even with restoration of live cattle trade with the U.S., uncertainty over COOL results in weaker Canadian cattle exports. Exports decline 1.4% annually, dropping to 1.16 million head in 2018. Meat trade is also weak in the short to medium terms. Beef net exports begin to increase in 2011 but reach only 268 tmt in 2018.

China has always exported beef in the past, although the volume has been small and declining. In the long run, however, with its economic growth and accession to the WTO, China becomes a beef importer, with net imports reaching 375 tmt in 2018. Domestic production, restricted by poor genetics and limited good pasture land, is projected to grow 3.0% annually.

Elevated beef prices stimulated EU beef production and partially relieved the tight supply in 2008. Because of high prices, consumption reverts to its long-term declining trend at a rate of 0.3% annually. With maximum decoupling of support in the beef sector beginning in 2007 and shrinking dairy animal numbers, beef production in the EU declines at a rate of 0.4% annually. The EU was already a small net importer in 2003 and continues in this position for the rest of the decade, importing 567 tmt in 2018.

Japan's beef imports are significantly reduced because of a higher world price, weak domestic economic conditions, and a crisis in consumer confidence. A 0.3% decline in production and a 1.2% growth in consumption fuel expansion of net imports. Imports grow at 2.2% and reach 0.9 mmt in 2018.

Beef and Veal Trade

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Net Exporters											
Argentina	395	431	465	458	463	470	481	493	512	538	566
Australia	1,379	1,366	1,360	1,396	1,451	1,501	1,545	1,584	1,620	1,652	1,681
Brazil	1,892	2,133	2,215	2,365	2,458	2,558	2,634	2,686	2,722	2,741	2,744
Canada	205	181	157	168	193	213	236	253	261	259	268
China - Mainland	50	21	19	3	-24	-62	-111	-176	-263	-316	-375
European Union	-300	-352	-422	-467	-508	-513	-521	-533	-544	-556	-567
India	810	879	911	925	931	936	939	940	945	953	963
New Zealand	503	568	584	602	627	654	682	709	735	757	779
Thailand	-1	-2	2	4	6	5	3	0	-3	-5	-8
Ukraine	0	-83	-115	-142	-161	-169	-170	-169	-168	-165	-162
United States	-275	-358	-336	-393	-456	-508	-535	-470	-389	-309	-224
Total Net Exports *	5,274	5,608	5,742	5,946	6,151	6,354	6,534	6,671	6,799	6,905	7,010
Net Importers											
China - Hong Kong	100	102	104	106	109	112	115	117	120	123	125
Egypt	225	259	271	272	272	272	273	281	290	300	311
Indonesia	13	11	13	23	32	46	59	77	94	111	127
Japan	675	721	727	765	796	827	838	851	856	861	865
Mexico	398	379	387	386	393	400	411	429	446	472	503
Other CIS †	-39	-23	-20	-14	-12	-8	-4	0	1	0	-2
Other Eastern Europe ‡	8	4	-1	-2	-4	-4	-3	-2	0	3	5
Paraguay	-2	-6	-8	-9	-7	-5	-5	-5	-5	-5	-6
Philippines	173	171	173	179	186	194	203	213	223	232	242
Russia	998	1,061	1,074	1,072	1,051	1,053	1,055	1,057	1,055	1,050	1,041
South Africa	14	7	7	8	12	23	38	58	76	92	109
South Korea	320	311	316	318	322	328	339	354	365	386	404
Taiwan	100	97	100	104	109	113	117	122	126	131	135
Vietnam	0	5	5	9	10	14	18	23	28	33	37
Rest of World	1,674	1,684	1,692	1,701	1,710	1,720	1,730	1,740	1,750	1,760	1,770
Total Net Imports	5,274	5,608	5,742	5,946	6,151	6,354	6,534	6,671	6,799	6,905	7,010
Nebraska Direct Fed Steer Price											
	2,034	1,976	2,094	2,171	2,222	2,243	2,258	2,257	2,262	2,263	2,267
(U.S. Dollars per Metric Ton)											

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova Republic, Tajikistan, Turkmenistan, Uzbekistan.

‡ Countries included: Albania, Bosnia and Herzegovina, Croatia, Macedonia, Yugoslavia.

World Pork

Pork trade grows by 3.5% (1.68 mmt) annually over the decade, reaching 5.70 mmt in 2018. Pork production increases over the baseline at a rate of 1.9% (17.75 mmt) and reaches 112.95 mmt in 2018. The pork price cycles throughout the decade, ending at \$56.15/cwt in 2018.

The EU loses 8.4 percentage points of market share, dropping from 30.3% to 21.9%. Also, the long-term competitiveness of the EU is not very promising, given its appreciating currency and strict animal welfare and environmental regulations. Canada's market share decreases by 3.8 percentage points, while the U.S. gains 15.6 percentage points. Despite SPS challenges, Brazil's long-term prospects are good, with new investments to improve infrastructure and raise productivity. Brazil's market share grows by 4 percentage points.

As a result of lower profitability, Canadian pork production declines next year by 1.2%. Over the rest of the decade, production grows at 1.0% annually. Hog inventory in Canada begins to grow in 2011. Canada's exports of live hogs to the U.S. decline at 2.7%, ending at 7.28 million head in 2018, because of uncertainty about COOL. Pork net exports decline in the short run and stay at around 1 mmt after a 7.6% increase in 2011.

Brazil's pork exports grow by 5.0% annually and reach 1.2 mmt in 2018. Improvement in productivity, favorable domestic policies, and a weakening currency improve Brazil's competitiveness in the world pork market.

Stimulated by increased export refunds, the EU's net exports jumped by 17.9% in 2008, but they decline after that and end at 1.2 mmt in 2018. Per capita consumption in the EU drops slightly, by 0.1%, over the decade. Strict environmental regulations and animal welfare requirements limit the EU's long-term capability. Production is stable over the projection period compared to the 0.3% growth in consumption.

Taiwan's pork production declined 11.7% between 1997 and 2008. Constrained by environmental pressures and high feed costs, production increases at 1%, which boosts net imports by 12.5% per year over the decade. Recovery in the beef and poultry sectors impacts Japan's pork sector. Consumption increases slightly, at 0.3%, over the decade, and production also increases, at 0.5%. As a result, net imports are lower next year but turn around in 2013. They reach 1.2 mmt in 2018.

Consumption recovery boosted China's net imports in 2008, with domestic production and consumption increasing 4% and 5%, respectively. Over the baseline, production grows at 3.0%, falling slightly short of the 3.1% growth in consumption. China's exports have continued to decline, and the country became a net importer in 2008, as growth in imports exceeded growth in exports. Net imports expand to 470 tmt in 2018.

Pork Trade

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Net Exporters											
Australia	-102	-97	-120	-142	-157	-166	-171	-174	-175	-177	-179
Brazil	675	805	850	966	975	1,031	1,067	1,108	1,154	1,189	1,218
Canada	860	859	884	951	1,007	1,007	1,010	1,006	994	986	1,015
European Union	1,475	1,239	1,146	1,027	1,052	1,097	1,129	1,171	1,239	1,245	1,216
Other CIS †	-6	-14	-39	-50	-54	-56	-54	-51	-47	-41	-36
Thailand	0	2	2	4	1	-2	-3	-4	-2	-1	-2
United States	1,794	1,459	1,572	1,645	1,728	1,856	1,991	2,090	2,156	2,216	2,252
Total Net Exports *	4,804	4,368	4,461	4,600	4,768	4,993	5,197	5,375	5,543	5,636	5,702
Net Importers											
Argentina	39	44	49	54	63	68	73	78	82	86	92
China - Hong Kong	367	366	365	370	376	385	392	398	403	406	408
China - Mainland	282	172	126	155	201	273	332	379	426	452	470
Indonesia	0	0	0	0	0	0	0	0	0	0	0
Japan	1,248	1,184	1,155	1,169	1,167	1,187	1,208	1,227	1,246	1,247	1,245
Mexico	455	371	356	335	329	360	401	447	505	547	587
New Zealand	2	5	7	7	7	8	8	9	10	10	11
Other Eastern Europe ‡	13	12	9	8	7	6	5	5	6	7	8
Paraguay	0	-4	-6	-7	-5	-2	1	3	5	5	4
Philippines	54	37	37	53	93	122	157	191	225	263	304
Russia	939	837	837	851	861	845	821	789	752	717	673
South Korea	444	450	495	500	498	521	548	577	608	618	617
Taiwan	19	15	14	15	19	25	33	41	50	51	51
Ukraine	140	71	110	114	135	147	156	160	159	160	158
Vietnam	39	34	79	110	130	146	151	154	151	151	154
Rest of World	656	659	662	667	671	677	682	688	693	697	702
Total Net Imports	4,804	4,368	4,461	4,600	4,768	4,993	5,197	5,375	5,543	5,636	5,702
Barrow and Gilt Price, National Base 51-52% Lean Equivalent											
						(U.S. Dollars per Metric Ton)					
	1,055	1,078	1,169	1,213	1,240	1,208	1,190	1,183	1,176	1,204	1,238

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova Republic, Tajikistan, Turkmenistan, Uzbekistan.

‡ Countries included: Albania, Bosnia and Herzegovina, Croatia, Macedonia, Yugoslavia.

World Poultry

Broiler trade grows at a rate of 3.1% annually. Total broiler trade increases by 1.48 mmt, reaching 8.34 mmt in 2018. Total broiler production increases by 2.1% (14.1 mmt), reaching 79.53 mmt in 2018. The price strengthens over the rest of the decade, growing by 1.6% annually, and reaches \$90.65/cwt in 2018.

The U.S. loses 1.2 percentage points of market share. The EU changed from a net exporter to a net importer in 2007. Aided by increasing world demand and aggressive overseas marketing promotion efforts, Brazil gains 3.8 points of market share. After losing 59.4% of its exports because of AI, Thailand regains 1.5 points of market share over the decade. Productivity improvements, product innovation, and a shift to higher-valued products enable Thailand to overcome SPS concerns and its higher cost of production.

A reduction in AI concerns and aggressive promotional efforts in overseas markets encourage Brazilian poultry exports. Fiscal incentives and subsidies from local government promote large new investments in broiler production. Brazil's net poultry exports increased by 14% in 2008, as production rose by 5.7% and consumption increased by only 2.5%. Over the rest of the decade, net exports grow by 3.4%, reaching 4.20 mmt in 2018.

From the major export drop in 2004, it takes five years for Thailand's broiler sector to recover from the AI crisis and reach the pre-AI historical trend. Recovery is helped by a new TRQ from the EU, expansion of integrated producers, productivity improvements (low feed conversion ratios), reduced processing costs, investment in production innovations, and a shift to higher-valued cooked products. Thailand's net exports increase by 4.9% annually, reaching 496 tmt in 2018.

The new AI outbreaks in 2007 further limited the EU's net exports in 2008. The EU changed from a net exporter to a net importer in 2007. Its net poultry imports reach 91 tmt in 2018. There are several reasons for this change: aggressive promotion by low-cost exporters in the EU's traditional export market destination, induction of a new import quota by Russia, high feed costs, strict animal welfare rules, and other environmental regulations.

Under NAFTA, Mexico removed the global TRQ and its prohibitive out-quota rates. A safeguard agreement was reached with the U.S., whereby a TRQ for chicken leg quarters is imposed. The product is duty free, but out-quota is charged a 98.8% duty. The TRQ was removed in 2008. Strong domestic demand causes net imports to grow 5.5% annually, and they reach 669 tmt in 2018.

With its WTO accession, Taiwan removed its quota and replaced it with a "tariff-only regime" in 2005. As a result, imports are projected to increase 9.5% annually. They reach 130 tmt in 2018. A shift to differentiated local breeds sustains domestic production at a growth rate of 1.5% per year.

Russia imposes a lower TRQ of 0.95 mmt. Over the outlook period, imports decline 1% annually, as domestic production is encouraged and grows by 4.1%, exceeding the 2.0% growth in consumption. Over the decade, China's net imports grow at 5% annually and reach 612 tmt in 2018.

Broiler Meat Trade

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Net Exporters											
Australia	25	40	35	6	-6	-11	-13	-15	-18	-22	-26
Brazil	3,330	3,384	3,412	3,569	3,646	3,730	3,818	3,911	4,005	4,103	4,201
European Union	-50	-36	-7	-18	-13	-26	-39	-52	-65	-78	-91
Thailand	350	354	385	413	444	452	461	467	476	486	496
United States	3,018	2,748	2,784	2,854	2,926	3,020	3,091	3,167	3,255	3,344	3,425
Total Net Exports *	6,853	6,712	6,823	7,049	7,222	7,408	7,579	7,755	7,945	8,145	8,335
Net Importers											
Argentina	-110	-117	-152	-162	-165	-166	-167	-166	-166	-172	-175
Canada	-15	-42	-30	-24	-23	-22	-25	-26	-25	-23	-22
China - Mainland	175	202	222	266	323	378	427	473	521	569	612
China - Hong Kong	240	242	246	249	253	255	257	260	262	264	266
Egypt	6	8	10	13	16	20	26	32	40	49	60
India	0	0	0	0	0	0	0	0	0	0	0
Indonesia	4	5	32	55	62	70	77	88	97	105	111
Japan	675	687	668	684	694	703	714	724	732	739	746
Mexico	413	371	476	511	532	539	550	564	591	628	669
New Zealand	-4	-19	-20	-19	-18	-17	-17	-17	-17	-17	-17
Other CIS †	208	188	186	188	190	193	196	199	200	203	205
Other Eastern Europe ‡	38	29	23	21	19	18	18	18	20	23	26
Paraguay	0	-5	-4	-2	2	5	6	8	8	9	9
Philippines	40	19	26	33	47	62	80	99	118	137	157
Russia	1,233	1,212	1,144	1,183	1,192	1,191	1,172	1,152	1,134	1,118	1,092
Saudi Arabia	480	482	489	502	516	534	549	561	574	587	600
South Africa	197	192	198	195	197	207	219	235	253	269	285
South Korea	64	47	125	146	152	153	154	157	160	166	175
Taiwan	86	92	97	102	109	112	116	120	124	127	130
Ukraine	215	164	126	114	120	134	150	164	174	182	185
Vietnam	5	-4	0	5	3	7	11	16	20	23	26
Rest of World	2,724	2,735	2,748	2,762	2,776	2,791	2,805	2,820	2,834	2,848	2,863
Total Net Imports	6,853	6,712	6,823	7,049	7,222	7,408	7,579	7,755	7,945	8,145	8,335
(U.S. Dollars per Metric Ton)											
U.S. 12-City Price	1,756	1,783	1,791	1,821	1,846	1,874	1,908	1,938	1,963	1,981	1,998

* Total net exports are the sum of all positive net exports and negative net imports.

† Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova Republic, Tajikistan, Turkmenistan, Uzbekistan.

‡ Countries included: Albania, Bosnia and Herzegovina, Croatia, Macedonia, Yugoslavia.

U.S. Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	96.7	96.0	95.3	94.0	93.3	93.1	93.0	93.3	93.5	93.6	93.6
Hog Inventories (Beg.)	61.9	60.6	59.9	59.8	60.3	61.3	62.3	63.6	64.7	65.1	65.4
(Thousand Head)											
Live Cattle Trade											
Export	110	108	122	143	175	234	342	426	439	445	449
Import	2,281	2,147	2,019	1,988	2,012	2,032	2,092	2,135	2,136	2,100	2,093
Live Hog Trade											
Export	100	60	77	76	72	70	65	62	65	68	72
Import	9,184	7,821	7,104	7,066	7,246	7,291	7,458	7,496	7,439	7,277	7,283
(Thousand Metric Tons)											
Beef											
Production	12,093	11,961	12,041	11,875	11,757	11,740	11,768	11,937	12,122	12,358	12,600
Beginning Stocks	286	274	259	252	262	259	261	264	268	275	286
Domestic Supply	12,379	12,236	12,300	12,127	12,020	11,998	12,029	12,201	12,390	12,634	12,885
Consumption	12,380	12,335	12,383	12,258	12,217	12,244	12,300	12,403	12,504	12,657	12,813
Ending Stocks	274	259	252	262	259	261	264	268	275	286	296
Domestic Use	12,654	12,594	12,635	12,521	12,476	12,506	12,564	12,671	12,779	12,943	13,109
Net Trade	-275	-358	-336	-393	-456	-508	-535	-470	-389	-309	-224
Pork											
Production	10,604	10,343	10,299	10,423	10,571	10,819	11,093	11,374	11,630	11,749	11,857
Beginning Stocks	243	290	287	283	287	292	301	311	320	329	332
Domestic Supply	10,847	10,633	10,586	10,706	10,859	11,111	11,395	11,685	11,950	12,078	12,189
Consumption	8,762	8,888	8,731	8,774	8,839	8,953	9,093	9,275	9,465	9,530	9,602
Ending Stocks	290	287	283	287	292	301	311	320	329	332	335
Domestic Use	9,053	9,175	9,014	9,061	9,131	9,255	9,404	9,595	9,794	9,862	9,936
Net Trade	1,794	1,459	1,572	1,645	1,728	1,856	1,991	2,090	2,156	2,216	2,252
Broiler											
Production	16,556	16,383	16,600	16,898	17,154	17,414	17,658	17,911	18,199	18,509	18,824
Beginning Stocks	326	367	335	343	355	358	362	365	366	368	372
Domestic Supply	16,882	16,751	16,935	17,241	17,509	17,773	18,020	18,276	18,565	18,877	19,196
Consumption	13,497	13,668	13,807	14,033	14,224	14,390	14,565	14,743	14,942	15,161	15,395
Ending Stocks	367	335	343	355	358	362	365	366	368	372	376
Domestic Use	13,864	14,003	14,150	14,388	14,582	14,753	14,929	15,108	15,310	15,533	15,771
Net Trade	3,018	2,748	2,784	2,854	2,926	3,020	3,091	3,167	3,255	3,344	3,425
Turkey											
Production	2,799	2,716	2,736	2,776	2,819	2,856	2,886	2,912	2,940	2,970	3,002
Beginning Stocks	118	159	135	138	142	145	148	149	148	148	148
Domestic Supply	2,917	2,875	2,871	2,914	2,961	3,001	3,033	3,061	3,088	3,118	3,151
Consumption	2,466	2,471	2,460	2,493	2,530	2,559	2,583	2,605	2,625	2,647	2,672
Ending Stocks	159	135	138	142	145	148	149	148	148	148	149
Domestic Use	2,624	2,606	2,598	2,635	2,676	2,706	2,732	2,753	2,773	2,796	2,821
Net Trade	292	269	272	279	286	295	301	308	315	322	330
(U.S. Dollars per Metric Ton)											
Producer Prices											
Nebraska Direct Fed Steers	2,034	1,976	2,094	2,171	2,222	2,243	2,258	2,257	2,262	2,263	2,267
Barrow and Gilt Price, National											
Base 51-52% Lean Equivalent	1,055	1,078	1,169	1,213	1,240	1,208	1,190	1,183	1,176	1,204	1,238
12-City Broiler Wholesale	1,756	1,783	1,791	1,821	1,846	1,874	1,908	1,938	1,963	1,981	1,998
(U.S. Dollars per Kilogram)											
Retail Prices											
Beef	9.53	9.34	9.83	10.44	10.92	11.26	11.42	11.42	11.44	11.45	11.47
Pork	6.47	6.53	6.88	7.31	7.59	7.55	7.51	7.45	7.43	7.57	7.83
Broiler	3.85	3.89	3.99	4.12	4.20	4.27	4.32	4.36	4.42	4.48	4.52
Turkey	2.76	2.72	2.76	2.83	2.88	2.93	2.97	3.01	3.07	3.13	3.19

Argentine Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	55.7	55.2	54.7	54.4	54.4	54.5	54.7	55.0	55.4	55.8	56.2
Hog Inventories (Beg.)	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.7
Beef											
(Thousand Metric Tons)											
Production	3,200	3,221	3,234	3,246	3,270	3,302	3,341	3,383	3,431	3,482	3,535
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	3,200	3,221	3,234	3,246	3,270	3,302	3,341	3,383	3,431	3,482	3,535
Consumption	2,805	2,790	2,769	2,787	2,807	2,833	2,860	2,890	2,919	2,944	2,969
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	2,805	2,790	2,769	2,787	2,807	2,833	2,860	2,890	2,919	2,944	2,969
Net Trade	395	431	465	458	463	470	481	493	512	538	566
Pork											
Production	220	227	230	232	232	234	237	239	242	246	249
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	220	227	230	232	232	234	237	239	242	246	249
Consumption	259	271	279	286	295	302	309	317	324	332	341
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	259	271	279	286	295	302	309	317	324	332	341
Net Trade	-39	-44	-49	-54	-63	-68	-73	-78	-82	-86	-92
Broiler											
Production	1,425	1,532	1,591	1,629	1,658	1,688	1,716	1,744	1,773	1,807	1,839
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1,425	1,532	1,591	1,629	1,658	1,688	1,716	1,744	1,773	1,807	1,839
Consumption	1,315	1,416	1,439	1,467	1,493	1,521	1,549	1,578	1,607	1,635	1,664
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1,315	1,416	1,439	1,467	1,493	1,521	1,549	1,578	1,607	1,635	1,664
Net Trade	110	117	152	162	165	166	167	166	166	172	175
Prices											
(Argentine Pesos per Kilogram)											
Beef - Farm	2.80	3.14	3.53	3.78	3.98	4.15	4.32	4.46	4.62	4.82	5.01
Pork - Farm	2.60	2.62	2.77	2.92	2.99	3.13	3.28	3.44	3.61	3.77	3.92
Broiler - Retail	4.97	5.85	6.36	6.73	7.06	7.43	7.84	8.23	8.63	9.09	9.55

Australian Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	28.1	28.3	28.5	29.0	29.6	30.2	30.7	31.1	31.5	31.8	32.1
Hog Inventories (Beg.)	2.6	2.6	2.5	2.3	2.2	2.2	2.1	2.0	2.0	2.0	2.0
Sheep Inventories (Beg.)	85.3	76.3	68.9	63.1	58.6	55.3	52.6	50.4	48.8	47.7	47.0
Live Cattle Trade Export	800	934	987	981	996	1,019	1,041	1,064	1,085	1,104	1,125
(Thousand Head)											
(Thousand Metric Tons)											
Beef											
Production	2,100	2,091	2,086	2,132	2,192	2,250	2,303	2,351	2,396	2,437	2,474
Beginning Stocks	91	82	81	81	81	81	82	82	82	82	82
Domestic Supply	2,191	2,173	2,167	2,213	2,274	2,332	2,385	2,433	2,478	2,519	2,556
Consumption	730	726	727	735	741	749	758	767	776	784	793
Ending Stocks	82	81	81	81	81	82	82	82	82	82	82
Domestic Use	812	807	808	816	823	831	839	849	858	867	875
Net Trade	1,379	1,366	1,360	1,396	1,451	1,501	1,545	1,584	1,620	1,652	1,681
Pork											
Production	367	375	362	351	346	346	349	355	363	371	379
Beginning Stocks	35	44	44	44	44	44	44	44	44	44	44
Domestic Supply	402	419	406	395	390	390	393	399	407	415	423
Consumption	460	473	482	493	503	512	521	529	538	547	557
Ending Stocks	44	44	44	44	44	44	44	44	44	44	44
Domestic Use	504	517	526	537	547	556	565	573	582	591	601
Net Trade	-102	-97	-120	-142	-157	-166	-171	-174	-175	-177	-179
Broiler											
Production	720	719	727	722	724	734	746	757	769	779	790
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	720	719	727	722	724	734	746	757	769	779	790
Consumption	695	679	692	715	731	745	758	772	786	801	816
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	695	679	692	715	731	745	758	772	786	801	816
Net Trade	25	40	35	6	-6	-11	-13	-15	-18	-22	-26
Farm Prices											
(Australian Cents per Kilogram)											
Beef Saleyard	293	335	353	344	347	350	353	354	355	356	357
Pork Saleyard	243	244	241	233	229	234	239	245	251	254	256
Retail Prices											
Beef	1,353	1,468	1,519	1,500	1,505	1,515	1,523	1,525	1,528	1,531	1,534
Pork	1,154	1,159	1,149	1,124	1,111	1,130	1,147	1,163	1,181	1,189	1,194
Poultry	387	456	456	438	437	443	451	458	464	469	473

Brazilian Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	175.4	177.5	178.8	181.3	183.9	186.8	189.3	191.5	193.3	194.7	195.7
Hog Inventories (Beg.)	32.8	32.9	33.0	34.1	34.4	35.0	35.0	35.0	34.9	34.7	34.5
Beef											
(Thousand Metric Tons)											
Production	9,205	9,526	9,683	9,930	10,135	10,366	10,576	10,767	10,940	11,093	11,228
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	9,205	9,526	9,683	9,930	10,135	10,366	10,576	10,767	10,940	11,093	11,228
Consumption	7,313	7,393	7,467	7,564	7,678	7,808	7,942	8,081	8,219	8,353	8,484
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	7,313	7,393	7,467	7,564	7,678	7,808	7,942	8,081	8,219	8,353	8,484
Net Trade	1,892	2,133	2,215	2,365	2,458	2,558	2,634	2,686	2,722	2,741	2,744
Pork											
Production	3,055	3,283	3,400	3,574	3,651	3,758	3,843	3,931	4,023	4,110	4,195
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	3,055	3,283	3,400	3,574	3,651	3,758	3,843	3,931	4,023	4,110	4,195
Consumption	2,380	2,478	2,550	2,608	2,677	2,727	2,776	2,823	2,869	2,921	2,977
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	2,380	2,478	2,550	2,608	2,677	2,727	2,776	2,823	2,869	2,921	2,977
Net Trade	675	805	850	966	975	1,031	1,067	1,108	1,154	1,189	1,218
Broiler											
Production	10,895	11,110	11,282	11,564	11,771	11,992	12,209	12,432	12,660	12,894	13,125
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	10,895	11,110	11,282	11,564	11,771	11,992	12,209	12,432	12,660	12,894	13,125
Consumption	7,565	7,726	7,870	7,995	8,125	8,262	8,390	8,520	8,656	8,790	8,924
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	7,565	7,726	7,870	7,995	8,125	8,262	8,390	8,520	8,656	8,790	8,924
Net Trade	3,330	3,384	3,412	3,569	3,646	3,730	3,818	3,911	4,005	4,103	4,201
Prices											
(Reals per Kilogram)											
Beef - Farm	6.40	7.82	8.62	9.52	9.99	10.37	10.74	11.06	11.40	11.74	12.10
Pork - Farm	4.31	4.83	5.08	5.63	5.79	6.13	6.49	6.88	7.29	7.64	7.95
Broiler - Wholesale	3.88	5.17	5.52	6.12	6.43	6.76	7.13	7.50	7.87	8.22	8.58

Canadian Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	13.9	13.4	13.2	13.2	13.4	13.4	13.4	13.4	13.4	13.4	13.4
Hog Inventories (Beg.)	13.8	12.4	11.4	12.3	13.2	13.6	14.1	14.2	14.2	14.4	14.7
(Thousand Head)											
Live Cattle Trade											
Export	1,650	1,340	1,197	1,125	1,115	1,116	1,155	1,187	1,192	1,162	1,160
Import	45	45	54	66	86	126	205	244	244	245	245
Live Hog Trade											
Export	9,070	7,821	7,104	7,066	7,246	7,291	7,458	7,496	7,439	7,277	7,283
Import	1	1	1	1	1	1	1	1	1	1	1
(Thousand Metric Tons)											
Beef and Veal											
Production	1,270	1,248	1,241	1,267	1,302	1,328	1,356	1,378	1,394	1,407	1,429
Beginning Stocks	45	40	40	40	40	40	40	40	40	40	40
Domestic Supply	1,315	1,288	1,281	1,307	1,342	1,369	1,396	1,418	1,434	1,447	1,469
Consumption	1,070	1,068	1,084	1,099	1,109	1,115	1,119	1,125	1,133	1,148	1,161
Ending Stocks	40	40	40	40	40	40	40	40	40	40	40
Domestic Use	1,110	1,108	1,123	1,139	1,149	1,156	1,159	1,165	1,173	1,188	1,201
Net Trade	205	181	157	168	193	213	236	253	261	259	268
Pork											
Production	1,845	1,823	1,861	1,949	2,021	2,043	2,062	2,070	2,073	2,078	2,117
Beginning Stocks	57	60	60	60	60	60	60	60	60	60	60
Domestic Supply	1,902	1,883	1,921	2,009	2,081	2,103	2,122	2,130	2,133	2,138	2,177
Consumption	982	964	977	998	1,014	1,036	1,052	1,064	1,079	1,092	1,101
Ending Stocks	60	60	60	60	60	60	60	60	60	60	60
Domestic Use	1,042	1,024	1,037	1,058	1,074	1,096	1,112	1,124	1,139	1,152	1,161
Net Trade	860	859	884	951	1,007	1,007	1,010	1,006	994	986	1,015
Broiler											
Production	1,030	1,066	1,083	1,093	1,111	1,123	1,143	1,161	1,174	1,184	1,201
Beginning Stocks	37	38	22	22	22	22	22	22	22	22	22
Domestic Supply	1,067	1,104	1,105	1,115	1,133	1,145	1,165	1,183	1,196	1,206	1,223
Consumption	1,014	1,040	1,053	1,069	1,087	1,101	1,118	1,135	1,148	1,161	1,179
Ending Stocks	38	22	22	22	22	22	22	22	22	22	22
Domestic Use	1,052	1,062	1,075	1,091	1,109	1,123	1,140	1,157	1,170	1,183	1,201
Net Trade	15	42	30	24	23	22	25	26	25	23	22
Prices											
(Canadian Dollars per Hundredweight)											
Beef and Veal - Farm	91.7	99.1	96.0	92.8	93.1	93.8	97.2	100.1	101.1	99.1	99.0
Pork - Farm	57.3	66.8	66.4	64.0	64.1	61.9	62.8	64.4	64.5	64.9	66.9
Broiler - Wholesale	142.7	139.3	138.1	136.5	136.3	137.1	138.9	140.9	142.3	143.0	143.5

Chinese - Mainland Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	106	107	109	112	114	116	118	119	120	121	122
Hog Inventories (Beg.)	440	447	457	464	466	467	470	473	476	478	480
Sheep Inventories (Beg.)	171	171	169	166	163	160	158	155	152	149	147
Beef											
Production	6,260	6,403	6,624	6,892	7,147	7,390	7,622	7,837	8,040	8,255	8,458
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	6,260	6,403	6,624	6,892	7,147	7,390	7,622	7,837	8,040	8,255	8,458
Consumption	6,210	6,382	6,606	6,889	7,171	7,452	7,732	8,014	8,303	8,571	8,833
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	6,210	6,382	6,606	6,889	7,171	7,452	7,732	8,014	8,303	8,571	8,833
Net Trade	50	21	19	3	-24	-62	-111	-176	-263	-316	-375
Pork											
Production	44,593	46,100	47,550	49,015	50,424	51,881	53,344	54,816	56,299	57,808	59,300
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	44,593	46,100	47,550	49,015	50,424	51,881	53,344	54,816	56,299	57,808	59,300
Consumption	44,875	46,273	47,676	49,169	50,625	52,154	53,676	55,195	56,725	58,260	59,770
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	44,875	46,273	47,676	49,169	50,625	52,154	53,676	55,195	56,725	58,260	59,770
Net Trade	-282	-172	-126	-155	-201	-273	-332	-379	-426	-452	-470
Broiler											
Production	12,650	12,981	13,345	13,767	14,153	14,536	14,896	15,247	15,597	15,943	16,266
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	12,650	12,981	13,345	13,767	14,153	14,536	14,896	15,247	15,597	15,943	16,266
Consumption	12,825	13,183	13,567	14,034	14,476	14,913	15,323	15,720	16,117	16,512	16,879
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	12,825	13,183	13,567	14,034	14,476	14,913	15,323	15,720	16,117	16,512	16,879
Net Trade	-175	-202	-222	-266	-323	-378	-427	-473	-521	-569	-612
Producer Prices											
	(Yuan per Kilogram)										
Beef	28.63	28.82	29.65	31.15	32.78	34.59	36.71	39.06	41.67	44.73	48.00
Pork	15.58	14.35	14.25	14.94	15.74	16.50	17.47	18.52	19.67	20.83	22.03
Poultry	14.22	13.77	14.04	14.84	15.71	16.58	17.64	18.77	19.97	21.16	22.39
Retail Prices											
Beef	31.31	31.50	32.40	34.00	35.76	37.69	39.97	42.48	45.29	48.57	52.07
Pork	24.43	23.06	22.94	23.72	24.61	25.47	26.56	27.74	29.03	30.33	31.68
Poultry	14.49	14.04	14.32	15.12	15.98	16.86	17.92	19.05	20.26	21.45	22.68

Chinese - Hong Kong Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Thousand Head)											
Cattle Inventories (Beg.)	2	2	2	2	2	2	2	2	2	2	2
Hog Inventories (Beg.)	270	276	286	297	311	323	334	341	344	346	347
Live Animal Trade											
Cattle Import	185	178	174	166	157	149	144	141	137	133	132
Swine Import	1,550	1,576	1,569	1,541	1,500	1,467	1,452	1,441	1,427	1,413	1,410
Beef and Veal											
Production	14	13	13	13	12	11	11	11	10	10	10
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	14	13	13	13	12	11	11	11	10	10	10
Consumption	114	115	117	119	121	123	126	128	130	133	135
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	114	115	117	119	121	123	126	128	130	133	135
Net Trade	-100	-102	-104	-106	-109	-112	-115	-117	-120	-123	-125
Pork											
Production	123	126	127	126	124	121	120	119	118	117	117
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	123	126	127	126	124	121	120	119	118	117	117
Consumption	490	492	493	496	500	506	512	516	521	523	525
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	490	492	493	496	500	506	512	516	521	523	525
Net Trade	-367	-366	-365	-370	-376	-385	-392	-398	-403	-406	-408
Broiler											
Production	18	17	17	17	18	18	19	19	20	20	21
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	18	17	17	17	18	18	19	19	20	20	21
Consumption	258	259	263	267	270	273	276	279	282	284	287
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	258	259	263	267	270	273	276	279	282	284	287
Net Trade	-240	-242	-246	-249	-253	-255	-257	-260	-262	-264	-266
Retail Prices											
(Hong Kong Dollars per Kilogram)											
Beef	88.46	86.69	93.03	97.98	102.12	104.87	107.08	108.64	110.49	112.26	113.99
Pork	64.22	65.16	70.70	74.19	77.14	76.96	77.14	77.78	78.44	80.94	83.62
Broiler	59.55	60.57	61.74	63.33	64.87	66.38	68.01	69.50	70.94	72.11	73.19

Egyptian Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	5.31	4.96	5.26	5.64	6.05	6.47	6.70	6.85	6.97	7.07	7.17
(Thousand Metric Tons)											
Beef and Veal											
Production	330	316	334	357	382	406	421	430	437	443	449
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	330	316	334	357	382	406	421	430	437	443	449
Consumption	555	575	605	629	653	678	694	711	727	743	760
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	555	575	605	629	653	678	694	711	727	743	760
Net Trade	-225	-259	-271	-272	-272	-272	-273	-281	-290	-300	-311
Broiler											
Production	525	536	550	566	579	591	601	611	620	628	634
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	525	536	550	566	579	591	601	611	620	628	634
Consumption	531	544	560	578	596	611	627	643	659	676	694
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	531	544	560	578	596	611	627	643	659	676	694
Net Trade	-6	-8	-10	-13	-16	-20	-26	-32	-40	-49	-60
Retail Prices											
Beef	45.34	45.25	48.23	50.44	52.33	53.79	55.12	56.17	57.30	58.15	58.99
Poultry	7.75	8.03	8.22	8.47	8.74	9.04	9.37	9.69	9.99	10.22	10.44

European Union Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	88	88	88	88	88	87	86	85	84	83	82
Hog Inventories (Beg.)	160	158	152	148	148	148	149	149	149	149	149
Beef and Veal											
Production	8,220	8,197	8,190	8,161	8,135	8,102	8,056	8,000	7,937	7,875	7,812
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	8,220	8,197	8,190	8,161	8,135	8,102	8,056	8,000	7,937	7,875	7,812
Consumption	8,520	8,549	8,612	8,628	8,643	8,615	8,578	8,533	8,481	8,430	8,379
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	8,520	8,549	8,612	8,628	8,643	8,615	8,578	8,533	8,481	8,430	8,379
Net Trade	-300	-352	-422	-467	-508	-513	-521	-533	-544	-556	-567
Pork											
Production	22,300	22,160	22,113	22,081	22,189	22,302	22,406	22,520	22,654	22,751	22,827
Beginning Stocks	99	0	0	0	0	0	0	0	0	0	0
Domestic Supply	22,399	22,160	22,113	22,081	22,189	22,302	22,406	22,520	22,654	22,751	22,827
Consumption	20,924	20,921	20,967	21,054	21,137	21,205	21,277	21,349	21,415	21,506	21,611
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	20,924	20,921	20,967	21,054	21,137	21,205	21,277	21,349	21,415	21,506	21,611
Net Trade	1,475	1,239	1,146	1,027	1,052	1,097	1,129	1,171	1,239	1,245	1,216
Broiler											
Production	8,400	8,483	8,570	8,596	8,635	8,660	8,684	8,713	8,749	8,782	8,814
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	8,400	8,483	8,570	8,596	8,635	8,660	8,684	8,713	8,749	8,782	8,814
Consumption	8,450	8,519	8,577	8,614	8,649	8,686	8,723	8,765	8,814	8,860	8,904
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	8,450	8,519	8,577	8,614	8,649	8,686	8,723	8,765	8,814	8,860	8,904
Net Trade	-50	-36	-7	-18	-13	-26	-39	-52	-65	-78	-91
Lamb and Mutton											
Production	1,085	1,083	1,076	1,078	1,083	1,088	1,094	1,100	1,106	1,111	1,115
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1,085	1,083	1,076	1,078	1,083	1,088	1,094	1,100	1,106	1,111	1,115
Consumption	1,355	1,353	1,346	1,349	1,355	1,362	1,368	1,374	1,380	1,385	1,389
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1,355	1,353	1,346	1,349	1,355	1,362	1,368	1,374	1,380	1,385	1,389
Net Trade	-269	-269	-270	-271	-273	-274	-274	-274	-274	-274	-274
Farm Prices											
(Euros per 100 Kilograms)											
Beef	320	297	286	284	285	289	294	299	306	311	317
Pork	153	144	142	142	143	145	147	149	151	151	150
Poultry	153	139	135	135	137	139	141	142	143	144	145
Sheep	431	394	391	388	386	386	386	386	386	385	385

Indian Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	282	281	281	281	281	282	284	286	288	290	292
Beef and Veal											
Production	2,655	2,735	2,786	2,832	2,874	2,919	2,964	3,009	3,058	3,108	3,160
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	2,655	2,735	2,786	2,832	2,874	2,919	2,964	3,009	3,058	3,108	3,160
Consumption	1,845	1,857	1,875	1,908	1,944	1,984	2,025	2,069	2,113	2,155	2,197
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1,845	1,857	1,875	1,908	1,944	1,984	2,025	2,069	2,113	2,155	2,197
Net Trade	810	879	911	925	931	936	939	940	945	953	963
Broiler											
Production	2,490	2,678	2,776	2,853	2,912	2,971	3,024	3,076	3,130	3,186	3,240
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	2,490	2,678	2,776	2,853	2,912	2,971	3,024	3,076	3,130	3,186	3,240
Consumption	2,490	2,678	2,776	2,853	2,912	2,971	3,024	3,076	3,130	3,186	3,240
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	2,490	2,678	2,776	2,853	2,912	2,971	3,024	3,076	3,130	3,186	3,240
Net Trade	0	0	0	0	0	0	0	0	0	0	0
Prices											
Beef - Farm	47.70	52.67	55.85	57.44	58.87	60.22	61.24	61.79	62.48	63.06	63.64
Poultry - Retail	86.87	95.48	96.31	97.02	98.14	100.00	101.87	103.48	104.98	106.20	107.29

Indonesian Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	11.5	11.6	11.7	11.9	12.1	12.3	12.5	12.7	13.0	13.1	13.3
Hog Inventories (Beg.)	6.8	6.8	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.8	7.9
Sheep Inventories (Beg.)	9.0	8.5	8.7	8.3	8.5	8.2	8.6	8.5	8.9	9.0	9.6
(Thousand Head)											
Live Cattle Import	456	545	571	563	564	572	580	590	598	605	614
Beef and Veal											
Production	464	469	475	480	488	494	501	506	512	518	523
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	464	469	475	480	488	494	501	506	512	518	523
Consumption	477	480	488	504	520	540	560	584	607	629	650
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	477	480	488	504	520	540	560	584	607	629	650
Net Trade	-13	-11	-13	-23	-32	-46	-59	-77	-94	-111	-127
Pork											
Production	578	578	593	603	612	622	632	643	653	664	674
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	578	578	593	603	612	622	632	643	653	664	674
Consumption	582	578	593	603	613	623	633	643	654	664	674
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	582	578	593	603	613	623	633	643	654	664	674
Net Trade	0	0	0	0	0	0	0	0	0	0	0
Broiler											
Production	833	830	829	836	855	875	896	916	937	960	983
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	833	830	829	836	855	875	896	916	937	960	983
Consumption	837	835	861	891	917	945	973	1,004	1,035	1,065	1,094
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	837	835	861	891	917	945	973	1,004	1,035	1,065	1,094
Net Trade	-4	-5	-32	-55	-62	-70	-77	-88	-97	-105	-111
(Rupiah per Kilogram)											
Beef	61,394	65,258	67,185	67,465	68,560	69,249	70,008	70,450	71,052	71,609	72,210
Pork	18,090	17,372	16,974	16,869	16,736	17,039	17,419	17,827	18,267	18,551	18,759
Broiler	18,628	20,431	20,126	19,885	20,042	20,316	20,717	21,104	21,468	21,774	22,064

Japanese Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	4.40	4.40	4.38	4.35	4.31	4.28	4.24	4.21	4.18	4.14	4.10
Wagyu Cows (Beg.)	1.17	1.19	1.19	1.19	1.19	1.19	1.19	1.18	1.18	1.17	1.17
Dairy Cows (Beg.)	0.86	0.86	0.85	0.84	0.83	0.83	0.82	0.81	0.80	0.79	0.78
Hog Inventories (Beg.)	9.75	9.75	9.26	8.82	8.87	9.01	9.20	9.32	9.36	9.35	9.28
(Thousand Metric Tons)											
Beef and Veal											
Production	510	500	505	506	504	502	499	496	493	489	486
Wagyu	215	219	228	233	236	238	239	240	240	240	240
Dairy	295	281	277	273	268	264	260	256	253	249	246
Beginning Stocks	111	109	110	110	110	110	110	110	110	111	111
Domestic Supply	621	609	616	616	614	612	609	606	603	600	597
Consumption	1,187	1,220	1,233	1,271	1,301	1,328	1,337	1,347	1,349	1,350	1,351
Wagyu	215	219	228	233	236	238	239	240	240	240	240
Dairy	294	281	277	273	268	264	260	256	253	249	246
Imported Beef	678	720	728	765	796	826	838	851	856	861	865
Ending Stocks	109	110	110	110	110	110	110	110	111	111	111
Wagyu	10	10	10	10	10	10	10	11	11	11	11
Dairy	23	23	23	23	22	22	22	22	22	22	23
Imported Beef	76	78	77	77	77	77	77	77	78	78	78
Domestic Use	1,296	1,331	1,342	1,381	1,410	1,438	1,447	1,457	1,459	1,461	1,462
Net Trade	-675	-721	-727	-765	-796	-827	-838	-851	-856	-861	-865
Pork											
Production	1,245	1,249	1,272	1,291	1,317	1,328	1,329	1,326	1,320	1,320	1,321
Beginning Stocks	208	203	198	189	188	187	189	190	191	191	190
Domestic Supply	1,453	1,452	1,469	1,481	1,504	1,515	1,518	1,516	1,511	1,511	1,511
Consumption	2,498	2,438	2,435	2,462	2,484	2,513	2,536	2,553	2,566	2,568	2,567
Ending Stocks	203	198	189	188	187	189	190	191	191	190	189
Domestic Use	2,701	2,636	2,625	2,650	2,671	2,702	2,726	2,744	2,757	2,758	2,756
Net Trade	-1,248	-1,184	-1,155	-1,169	-1,167	-1,187	-1,208	-1,227	-1,246	-1,247	-1,245
Broiler											
Production	1,260	1,249	1,285	1,286	1,280	1,268	1,251	1,236	1,221	1,209	1,196
Beginning Stocks	117	120	122	122	122	122	122	122	122	122	122
Domestic Supply	1,377	1,369	1,407	1,408	1,402	1,390	1,374	1,358	1,343	1,331	1,318
Consumption	1,932	1,935	1,953	1,970	1,974	1,971	1,966	1,960	1,953	1,948	1,943
Ending Stocks	120	122	122	122	122	122	122	122	122	122	122
Domestic Use	2,052	2,057	2,075	2,092	2,096	2,093	2,088	2,082	2,075	2,070	2,064
Net Trade	-675	-687	-668	-684	-694	-703	-714	-724	-732	-739	-746
Prices											
(Yen per Kilogram)											
Wagyu Beef - Farm	1,984	1,649	1,582	1,560	1,547	1,536	1,539	1,544	1,548	1,554	1,562
Dairy Beef - Farm	849	895	897	918	937	954	973	988	999	1,009	1,019
Pork - Wholesale	528	495	516	518	522	515	513	514	514	522	530
Broiler - Wholesale	338	303	305	304	309	315	323	330	336	341	346
Retail Prices											
(Yen per 100 Grams)											
Wagyu Beef	650	564	524	509	502	498	497	497	498	500	502
Dairy Beef	402	415	420	431	442	452	461	469	475	479	483
Imported Beef	205	180	190	190	192	193	194	194	194	194	194
Pork	169	159	165	166	167	165	165	165	165	167	169
Broiler	133	121	119	119	120	123	126	129	132	134	136

Mexican Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	26.7	27.1	27.3	27.6	28.0	28.3	28.7	29.1	29.5	29.8	30.2
Hog Inventories (Beg.)	10.1	9.4	8.5	8.5	8.7	8.8	9.1	9.2	9.3	9.3	9.3
(Thousand Head)											
Live Cattle Trade											
Export	871	968	983	1,024	1,059	1,077	1,098	1,109	1,105	1,099	1,095
Import	144	141	148	156	168	187	216	261	274	279	284
Live Hog Import	225	185	202	201	197	195	190	187	190	193	197
(Thousand Metric Tons)											
Beef and Veal											
Production	2,253	2,273	2,298	2,337	2,373	2,407	2,444	2,480	2,513	2,545	2,572
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	2,253	2,273	2,298	2,337	2,373	2,407	2,444	2,480	2,513	2,545	2,572
Consumption	2,651	2,652	2,684	2,723	2,766	2,807	2,855	2,909	2,959	3,017	3,075
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	2,651	2,652	2,684	2,723	2,766	2,807	2,855	2,909	2,959	3,017	3,075
Net Trade	-398	-379	-387	-386	-393	-400	-411	-429	-446	-472	-503
Pork											
Production	1,142	1,210	1,242	1,293	1,334	1,350	1,357	1,356	1,346	1,344	1,344
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1,142	1,210	1,242	1,293	1,334	1,350	1,357	1,356	1,346	1,344	1,344
Consumption	1,597	1,581	1,598	1,628	1,663	1,710	1,757	1,803	1,851	1,891	1,931
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1,597	1,581	1,598	1,628	1,663	1,710	1,757	1,803	1,851	1,891	1,931
Net Trade	-455	-371	-356	-335	-329	-360	-401	-447	-505	-547	-587
Broiler											
Production	2,775	2,804	2,786	2,825	2,879	2,933	2,989	3,046	3,094	3,143	3,192
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	2,775	2,804	2,786	2,825	2,879	2,933	2,989	3,046	3,094	3,143	3,192
Consumption	3,188	3,175	3,261	3,336	3,411	3,472	3,539	3,611	3,685	3,771	3,861
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	3,188	3,175	3,261	3,336	3,411	3,472	3,539	3,611	3,685	3,771	3,861
Net Trade	-413	-371	-476	-511	-532	-539	-550	-564	-591	-628	-669
Prices											
(New Pesos per Kilogram)											
Beef and Veal - Wholesale	32.91	39.19	41.34	43.21	44.94	46.05	47.30	48.17	48.37	48.51	48.71
Pork - Wholesale	22.91	28.83	31.16	32.64	33.95	33.61	33.84	34.31	34.17	35.05	36.11
Poultry - Retail	22.70	26.62	26.68	27.18	27.80	28.41	29.21	29.94	30.27	30.51	30.75

New Zealand Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	9.73	9.83	9.89	10.00	10.14	10.28	10.42	10.53	10.63	10.72	10.78
Hog Inventories (Beg.)	0.36	0.40	0.40	0.41	0.42	0.43	0.44	0.45	0.45	0.46	0.47
(Thousand Metric Tons)											
Beef and Veal											
Production	618	680	694	713	739	767	796	823	850	873	895
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	618	680	694	713	739	767	796	823	850	873	895
Consumption	115	111	111	111	112	113	114	114	115	116	116
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	115	111	111	111	112	113	114	114	115	116	116
Net Trade	503	568	584	602	627	654	682	709	735	757	779
Pork											
Production	51	51	51	52	54	55	56	57	58	59	61
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	51	51	51	52	54	55	56	57	58	59	61
Consumption	53	56	58	59	61	63	64	66	68	70	71
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	53	56	58	59	61	63	64	66	68	70	71
Net Trade	-2	-5	-7	-7	-7	-8	-8	-9	-10	-10	-11
Poultry											
Production	150	160	164	167	170	173	175	178	181	183	186
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	150	160	164	167	170	173	175	178	181	183	186
Consumption	146	141	144	148	152	155	158	161	163	166	169
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	146	141	144	148	152	155	158	161	163	166	169
Net Trade	4	19	20	19	18	17	17	17	17	17	17
Farm Prices											
(New Zealand Dollars per 100 Kilograms)											
Beef and Veal	422	484	501	504	514	521	528	531	536	539	544
Pork	444	417	403	407	415	412	416	416	416	416	416
Poultry	247	287	284	280	283	288	293	299	304	307	311

Other CIS Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	25.3	26.1	26.4	27.2	27.7	28.4	28.8	29.4	29.8	30.4	30.9
Hog Inventories (Beg.)	5.8	5.5	5.3	5.2	5.2	5.3	5.3	5.4	5.5	5.6	5.7
(Thousand Metric Tons)											
Beef and Veal											
Production	1,650	1,659	1,677	1,696	1,717	1,737	1,758	1,778	1,801	1,825	1,850
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1,650	1,659	1,677	1,696	1,717	1,737	1,758	1,778	1,801	1,825	1,850
Consumption	1,611	1,636	1,657	1,681	1,704	1,729	1,753	1,778	1,802	1,826	1,849
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1,611	1,636	1,657	1,681	1,704	1,729	1,753	1,778	1,802	1,826	1,849
Net Trade	39	23	20	14	12	8	4	0	-1	0	2
Pork											
Production	675	672	660	660	667	675	687	701	715	731	747
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	675	672	660	660	667	675	687	701	715	731	747
Consumption	681	686	698	709	721	731	742	752	762	772	782
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	681	686	698	709	721	731	742	752	762	772	782
Net Trade	-6	-14	-39	-50	-54	-56	-54	-51	-47	-41	-36
Broiler											
Production	320	341	358	372	384	395	406	416	427	438	449
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	320	341	358	372	384	395	406	416	427	438	449
Consumption	528	529	545	560	574	588	601	615	628	641	654
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	528	529	545	560	574	588	601	615	628	641	654
Net Trade	-208	-188	-186	-188	-190	-193	-196	-199	-200	-203	-205

Countries included: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova Republic, Tajikistan, Turkmenistan, Uzbekistan.

Other Eastern European Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	1.92	1.82	1.89	1.93	1.97	2.00	2.02	2.03	2.02	2.01	2.00
Hog Inventories (Beg.)	2.61	2.09	2.18	2.26	2.34	2.41	2.48	2.55	2.58	2.60	2.61
Beef and Veal											
Production	106	109	113	116	118	119	120	121	121	120	120
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	106	109	113	116	118	119	120	121	121	120	120
Consumption	114	113	112	113	114	115	117	119	121	123	125
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	114	113	112	113	114	115	117	119	121	123	125
Net Trade	-8	-4	1	2	4	4	3	2	0	-3	-5
Pork											
Production	86	88	92	96	99	102	105	108	110	110	111
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	86	88	92	96	99	102	105	108	110	110	111
Consumption	99	100	102	104	106	108	110	113	115	117	119
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	99	100	102	104	106	108	110	113	115	117	119
Net Trade	-13	-12	-9	-8	-7	-6	-5	-5	-6	-7	-8
Broiler											
Production	69	75	81	86	89	92	95	97	97	97	97
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	69	75	81	86	89	92	95	97	97	97	97
Consumption	107	105	105	107	108	110	112	115	118	120	123
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	107	105	105	107	108	110	112	115	118	120	123
Net Trade	-38	-29	-23	-21	-19	-18	-18	-18	-20	-23	-26

Countries included: Albania, Bosnia and Herzegovina, Croatia, Macedonia, Yugoslavia.

Paraguayan Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	10.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.3
Hog Inventories (Beg.)	1.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Beef and Veal											
(Thousand Metric Tons)											
Production	220	229	236	242	246	250	254	259	265	271	279
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	220	229	236	242	246	250	254	259	265	271	279
Consumption	218	222	228	234	239	244	249	255	260	266	272
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	218	222	228	234	239	244	249	255	260	266	272
Net Trade	2	6	8	9	7	5	5	5	5	5	6
Pork											
Production	105	110	115	118	119	120	120	121	122	124	128
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	105	110	115	118	119	120	120	121	122	124	128
Consumption	105	106	109	111	114	117	121	124	127	129	131
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	105	106	109	111	114	117	121	124	127	129	131
Net Trade	0	4	6	7	5	2	-1	-3	-5	-5	-4
Broiler											
Production	43	49	49	48	46	44	43	43	43	43	45
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	43	49	49	48	46	44	43	43	43	43	45
Consumption	43	43	45	46	48	49	50	51	52	53	54
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	43	43	45	46	48	49	50	51	52	53	54
Net Trade	0	5	4	2	-2	-5	-6	-8	-8	-9	-9

Philippine Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	5.5	5.6	5.6	5.6	5.7	5.8	5.8	5.9	6.0	6.1	6.1
Hog Inventories (Beg.)	14.2	16.5	17.4	17.9	18.1	18.4	18.6	18.8	19.0	19.1	19.3
(Thousand Head)											
Live Cattle Trade Import	40	41	42	43	45	48	51	53	56	58	61
(Thousand Metric Tons)											
Beef and Veal											
Production	200	207	211	215	218	222	226	229	233	237	240
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	200	207	211	215	218	222	226	229	233	237	240
Consumption	373	378	385	394	404	416	429	443	456	469	483
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	373	378	385	394	404	416	429	443	456	469	483
Net Trade	-173	-171	-173	-179	-186	-194	-203	-213	-223	-232	-242
Pork											
Production	1,190	1,263	1,293	1,317	1,324	1,336	1,345	1,354	1,365	1,374	1,382
Beginning Stocks	0	0	11	11	11	11	11	11	11	11	11
Domestic Supply	1,190	1,263	1,304	1,328	1,335	1,347	1,356	1,365	1,376	1,385	1,393
Consumption	1,244	1,289	1,330	1,370	1,416	1,458	1,501	1,545	1,590	1,637	1,686
Ending Stocks	0	11	11	11	11	11	11	11	11	11	11
Domestic Use	1,244	1,300	1,341	1,381	1,427	1,469	1,512	1,556	1,601	1,648	1,697
Net Trade	-54	-37	-37	-53	-93	-122	-157	-191	-225	-263	-304
Broiler											
Production	680	704	721	739	751	761	769	778	787	797	806
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	680	704	721	739	751	761	769	778	787	797	806
Consumption	720	722	747	772	797	823	849	876	905	934	963
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	720	722	747	772	797	823	849	876	905	934	963
Net Trade	-40	-19	-26	-33	-47	-62	-80	-99	-118	-137	-157
Farm Prices											
(Pesos per Kilogram)											
Beef and Veal	68.05	69.90	72.85	75.12	76.89	78.17	79.28	80.02	80.95	81.84	82.74
Pork	73.86	68.66	68.20	69.86	70.03	72.16	74.44	76.80	79.37	81.21	82.63
Poultry	73.00	78.27	78.66	80.27	81.95	83.97	86.27	88.43	90.54	92.42	94.19

Russian Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	18.4	17.8	17.6	17.5	17.5	17.4	17.3	17.3	17.3	17.3	17.3
Hog Inventories (Beg.)	18.2	19.5	19.7	20.7	21.9	22.8	23.4	23.9	24.3	24.8	25.3
Beef and Veal											
Production	1,330	1,269	1,242	1,232	1,244	1,246	1,248	1,252	1,258	1,265	1,273
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1,330	1,269	1,242	1,232	1,244	1,246	1,248	1,252	1,258	1,265	1,273
Consumption	2,328	2,330	2,316	2,304	2,296	2,299	2,303	2,309	2,313	2,315	2,314
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	2,328	2,330	2,316	2,304	2,296	2,299	2,303	2,309	2,313	2,315	2,314
Net Trade	-998	-1,061	-1,074	-1,072	-1,051	-1,053	-1,055	-1,057	-1,055	-1,050	-1,041
Pork											
Production	2,040	2,176	2,221	2,255	2,291	2,335	2,378	2,427	2,481	2,537	2,594
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	2,040	2,176	2,221	2,255	2,291	2,335	2,378	2,427	2,481	2,537	2,594
Consumption	2,979	3,013	3,058	3,106	3,152	3,180	3,199	3,216	3,233	3,254	3,267
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	2,979	3,013	3,058	3,106	3,152	3,180	3,199	3,216	3,233	3,254	3,267
Net Trade	-939	-837	-837	-851	-861	-845	-821	-789	-752	-717	-673
Broiler											
Production	1,550	1,738	1,832	1,842	1,859	1,887	1,924	1,965	2,008	2,050	2,092
Beginning Stocks	42	45	45	45	45	45	45	45	45	45	45
Domestic Supply	1,592	1,783	1,877	1,887	1,904	1,932	1,969	2,010	2,053	2,095	2,137
Consumption	2,780	2,950	2,976	3,025	3,051	3,078	3,096	3,117	3,141	3,167	3,184
Ending Stocks	45	45	45	45	45	45	45	45	45	45	45
Domestic Use	2,825	2,995	3,021	3,070	3,096	3,123	3,141	3,162	3,186	3,212	3,229
Net Trade	-1,233	-1,212	-1,144	-1,183	-1,192	-1,191	-1,172	-1,152	-1,134	-1,118	-1,092
Farm Prices											
(Rubles per Kilogram)											
Beef and Veal	111	132	149	158	164	168	171	174	176	178	180
Pork	92	105	117	124	126	131	136	141	146	149	152
Poultry	67	87	99	105	109	113	117	122	125	128	130

Saudi Arabian Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Broiler											
Production	564	565	588	609	624	636	648	660	673	686	699
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	564	565	588	609	624	636	648	660	673	686	699
Consumption	1,044	1,047	1,077	1,111	1,140	1,170	1,197	1,221	1,247	1,273	1,299
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1,044	1,047	1,077	1,111	1,140	1,170	1,197	1,221	1,247	1,273	1,299
Net Trade	-480	-482	-489	-502	-516	-534	-549	-561	-574	-587	-600
Wholesale Price											
Poultry	6.67	6.76	6.79	6.89	6.98	7.07	7.18	7.29	7.37	7.43	7.49

South African Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Cattle Inventories (Beg.)											
Cattle Inventories (Beg.)	14.1	14.2	14.2	14.3	14.4	14.5	14.5	14.6	14.6	14.6	14.6
Beef and Veal											
Production	678	685	691	701	710	715	717	716	715	714	714
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	678	685	691	701	710	715	717	716	715	714	714
Consumption	692	693	698	710	721	737	754	774	791	807	823
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	692	693	698	710	721	737	754	774	791	807	823
Net Trade	-14	-7	-7	-8	-12	-23	-38	-58	-76	-92	-109
Broiler											
Production	1,070	1,109	1,124	1,154	1,176	1,196	1,212	1,228	1,246	1,265	1,285
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1,070	1,109	1,124	1,154	1,176	1,196	1,212	1,228	1,246	1,265	1,285
Consumption	1,267	1,302	1,321	1,349	1,374	1,402	1,431	1,463	1,499	1,534	1,569
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1,267	1,302	1,321	1,349	1,374	1,402	1,431	1,463	1,499	1,534	1,569
Net Trade	-197	-192	-198	-195	-197	-207	-219	-235	-253	-269	-285
Prices											
Beef - Farm	62.62	67.12	69.52	74.67	78.97	82.34	85.54	87.91	90.47	93.00	95.71
Poultry - Retail	20.42	22.58	22.37	23.54	24.64	25.74	26.92	27.98	29.00	29.97	30.95

South Korean Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	2.65	2.90	3.02	3.16	3.25	3.29	3.31	3.30	3.26	3.21	3.14
Hog Inventories (Beg.)	8.74	8.26	8.16	8.42	8.30	8.41	8.69	8.91	9.02	9.07	9.03
Beef											
(Thousand Metric Tons)											
Production	240	278	284	302	313	319	322	321	318	313	307
Beginning Stocks	10	10	10	10	10	10	10	10	10	10	10
Domestic Supply	250	288	294	311	323	329	332	331	328	323	317
Consumption	560	589	600	620	635	648	661	675	684	699	711
Ending Stocks	10	10	10	10	10	10	10	10	10	10	10
Domestic Use	570	599	610	630	645	658	671	685	694	709	721
Net Trade	-320	-311	-316	-318	-322	-328	-339	-354	-365	-386	-404
Pork											
Production	1,045	1,059	1,064	1,094	1,120	1,141	1,155	1,161	1,161	1,165	1,175
Beginning Stocks	188	178	178	182	184	184	185	188	189	191	191
Domestic Supply	1,233	1,237	1,242	1,276	1,303	1,325	1,341	1,348	1,350	1,356	1,366
Consumption	1,499	1,509	1,555	1,592	1,618	1,661	1,702	1,736	1,767	1,782	1,792
Ending Stocks	178	178	182	184	184	185	188	189	191	191	191
Domestic Use	1,677	1,687	1,737	1,776	1,801	1,846	1,889	1,925	1,958	1,974	1,983
Net Trade	-444	-450	-495	-500	-498	-521	-548	-577	-608	-618	-617
Broiler											
Production	542	590	569	581	594	603	610	617	623	629	635
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	542	590	569	581	594	603	610	617	623	629	635
Consumption	606	637	693	728	746	756	765	774	782	795	810
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	606	637	693	728	746	756	765	774	782	795	810
Net Trade	-64	-47	-125	-146	-152	-153	-154	-157	-160	-166	-175
Farm Prices											
(1000 Won per 500 Kilograms, Liveweight)											
Beef	4,252	5,805	5,105	5,110	5,211	5,261	5,301	5,311	5,333	5,346	5,362
(Won per Kilogram, Liveweight)											
Pork	3,090	2,952	2,653	2,658	2,708	2,642	2,608	2,601	2,591	2,654	2,729
Poultry	1,298	1,467	1,227	1,205	1,218	1,236	1,259	1,281	1,300	1,314	1,326
Retail Prices											
(Won per Kilogram)											
Beef	31,143	39,285	38,003	37,599	38,021	38,370	38,600	38,614	38,632	38,604	38,588
Pork	6,377	6,437	5,851	5,738	5,804	5,675	5,566	5,510	5,460	5,556	5,704
Poultry	4,104	4,000	3,373	3,205	3,200	3,236	3,289	3,341	3,387	3,419	3,446

Taiwanese Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Hog Inventories (Beg.)	7.00	6.79	6.41	6.13	6.00	5.97	5.99	6.03	6.04	6.04	5.99
(Thousand Metric Tons)											
Beef and Veal											
Production	5	5	5	5	5	5	5	5	5	5	5
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	5	5	5	5	5	5	5	5	5	5	5
Consumption	105	103	105	109	114	118	123	127	131	136	140
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	105	103	105	109	114	118	123	127	131	136	140
Net Trade	-100	-97	-100	-104	-109	-113	-117	-122	-126	-131	-135
Pork											
Production	910	918	931	947	961	974	983	991	999	1,012	1,023
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	910	918	931	947	961	974	983	991	999	1,012	1,023
Consumption	929	933	945	963	980	1,000	1,016	1,032	1,049	1,062	1,075
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	929	933	945	963	980	1,000	1,016	1,032	1,049	1,062	1,075
Net Trade	-19	-15	-14	-15	-19	-25	-33	-41	-50	-51	-51
Broiler											
Production	575	580	592	607	617	628	636	644	652	662	672
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	575	580	592	607	617	628	636	644	652	662	672
Consumption	661	671	690	709	726	740	753	765	777	789	802
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	661	671	690	709	726	740	753	765	777	789	802
Net Trade	-86	-92	-97	-102	-109	-112	-116	-120	-124	-127	-130
Retail Prices											
(New Taiwan Dollars per Kilogram)											
Beef and Veal	254	261	266	266	261	258	256	253	249	248	247
Pork	152	154	159	160	160	159	160	160	160	161	164
Poultry	126	120	120	119	119	119	121	122	123	124	125

Thai Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	5.61	5.72	5.88	6.05	6.21	6.34	6.45	6.54	6.63	6.71	6.79
Hog Inventories (Beg.)	6.14	6.21	6.33	6.49	6.61	6.73	6.86	6.99	7.14	7.28	7.41
Beef and Veal											
Production	198	202	208	214	219	224	228	231	234	237	240
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	198	202	208	214	219	224	228	231	234	237	240
Consumption	199	204	205	210	214	219	225	231	237	242	247
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	199	204	205	210	214	219	225	231	237	242	247
Net Trade	-1	-2	2	4	6	5	3	0	-3	-5	-8
Pork											
Production	700	708	722	740	754	768	782	797	814	830	845
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	700	708	722	740	754	768	782	797	814	830	845
Consumption	700	706	720	736	753	770	785	802	817	832	847
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	700	706	720	736	753	770	785	802	817	832	847
Net Trade	0	2	2	4	1	-2	-3	-4	-2	-1	-2
Broiler											
Production	1,140	1,177	1,221	1,266	1,310	1,337	1,362	1,386	1,412	1,439	1,464
Beginning Stocks	24	9	9	9	9	9	9	9	9	9	9
Domestic Supply	1,164	1,186	1,230	1,275	1,319	1,346	1,371	1,395	1,421	1,448	1,473
Consumption	805	823	836	853	866	885	901	919	936	953	969
Ending Stocks	9	9	9	9	9	9	9	9	9	9	9
Domestic Use	814	832	845	862	875	894	910	928	945	962	978
Net Trade	350	354	385	413	444	452	461	467	476	486	496
Wholesale Prices											
Beef and Veal	99.2	100.8	107.2	111.5	116.6	118.5	120.2	121.4	122.8	124.2	125.7
Pork	71.9	65.5	65.7	67.6	68.9	70.8	73.0	75.4	77.9	79.6	81.0
Poultry	39.0	41.4	42.1	43.2	45.0	46.1	47.4	48.6	49.8	50.8	51.8

Ukrainian Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	5.5	5.0	4.5	4.2	4.0	3.8	3.7	3.7	3.7	3.7	3.7
Hog Inventories (Beg.)	7.0	5.9	5.1	5.3	5.4	5.5	5.6	5.8	5.9	6.0	6.2
(Thousand Metric Tons)											
Beef and Veal											
Production	480	423	382	360	344	337	335	335	337	340	345
Beginning Stocks	15	15	15	15	15	15	15	15	15	15	15
Domestic Supply	495	438	397	375	359	352	350	350	352	355	360
Consumption	480	505	497	502	505	506	505	505	506	506	507
Ending Stocks	15	15	15	15	15	15	15	15	15	15	15
Domestic Use	495	520	512	517	520	521	520	520	521	521	522
Net Trade	0	-83	-115	-142	-161	-169	-170	-169	-168	-165	-162
Pork											
Production	603	593	556	566	571	580	589	599	612	625	639
Beginning Stocks	22	22	21	22	22	22	22	23	23	23	23
Domestic Supply	625	615	577	588	593	602	612	622	635	648	662
Consumption	743	665	665	680	706	726	745	759	771	785	798
Ending Stocks	22	21	22	22	22	22	23	23	23	23	23
Domestic Use	765	686	687	702	728	749	768	782	794	808	821
Net Trade	-140	-71	-110	-114	-135	-147	-156	-160	-159	-160	-158
Broiler											
Production	570	686	725	754	772	783	790	796	804	813	825
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	570	686	725	754	772	783	790	796	804	813	825
Consumption	785	850	851	869	892	917	941	960	978	995	1,010
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	785	850	851	869	892	917	941	960	978	995	1,010
Net Trade	-215	-164	-126	-114	-120	-134	-150	-164	-174	-182	-185
Farm Prices											
(Hryvnias per Kilogram)											
Beef and Veal	22.06	12.17	11.63	11.23	10.98	10.99	11.13	11.13	11.13	11.13	11.13
Pork	38.01	49.75	48.03	48.11	46.87	46.86	46.91	46.95	47.58	47.72	48.00
Poultry	31.09	48.00	46.89	46.70	46.33	45.97	45.72	45.36	45.43	45.39	45.70

Vietnamese Meat Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Million Head)											
Cattle Inventories (Beg.)	6.8	6.9	7.0	7.2	7.4	7.6	7.8	7.9	8.1	8.2	8.4
Hog Inventories (Beg.)	28.6	29.3	30.1	30.3	30.5	30.7	31.4	32.0	32.6	33.1	33.7
Beef and Veal											
Production	166	167	171	175	180	184	188	192	196	200	203
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	166	167	171	175	180	184	188	192	196	200	203
Consumption	166	172	176	183	190	198	207	216	224	233	241
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	166	172	176	183	190	198	207	216	224	233	241
Net Trade	0	-5	-5	-9	-10	-14	-18	-23	-28	-33	-37
Pork											
Production	1,850	1,829	1,830	1,842	1,869	1,893	1,927	1,962	2,001	2,040	2,076
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1,850	1,829	1,830	1,842	1,869	1,893	1,927	1,962	2,001	2,040	2,076
Consumption	1,889	1,863	1,909	1,952	1,999	2,039	2,078	2,116	2,152	2,191	2,231
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1,889	1,863	1,909	1,952	1,999	2,039	2,078	2,116	2,152	2,191	2,231
Net Trade	-39	-34	-79	-110	-130	-146	-151	-154	-151	-151	-154
Broiler											
Production	322	326	332	337	350	357	364	371	378	385	392
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	322	326	332	337	350	357	364	371	378	385	392
Consumption	327	323	332	343	353	365	375	386	397	408	418
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	327	323	332	343	353	365	375	386	397	408	418
Net Trade	-5	4	0	-5	-3	-7	-11	-16	-20	-23	-26

Per Capita Meat Consumption of Selected Countries

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Kilograms)											
Argentina											
Beef and Veal	69.3	68.2	67.0	66.7	66.5	66.5	66.5	66.6	66.6	66.6	66.5
Pork	6.4	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6
Broiler	32.5	34.6	34.8	35.1	35.4	35.7	36.0	36.3	36.7	37.0	37.3
Total	108.2	109.4	108.5	108.7	108.9	109.3	109.7	110.2	110.7	111.1	111.5
Australia											
Beef and Veal	34.7	34.1	33.8	33.8	33.7	33.7	33.7	33.7	33.7	33.8	33.8
Pork	21.9	22.2	22.4	22.7	22.9	23.0	23.1	23.3	23.4	23.6	23.7
Broiler	33.1	31.9	32.2	32.9	33.2	33.5	33.7	33.9	34.2	34.5	34.8
Total	89.7	88.3	88.4	89.3	89.7	90.1	90.5	90.9	91.3	91.8	92.3
Brazil											
Beef and Veal	37.2	37.2	37.1	37.2	37.3	37.5	37.8	38.1	38.3	38.6	38.8
Pork	12.1	12.5	12.7	12.8	13.0	13.1	13.2	13.3	13.4	13.5	13.6
Broiler	38.5	38.9	39.1	39.3	39.5	39.7	39.9	40.1	40.4	40.6	40.8
Total	87.9	88.5	88.9	89.3	89.8	90.4	90.9	91.5	92.1	92.6	93.2
Canada											
Beef and Veal	32.2	31.9	32.1	32.3	32.3	32.3	32.1	32.1	32.0	32.2	32.3
Pork	29.6	28.8	28.9	29.3	29.6	30.0	30.2	30.3	30.5	30.6	30.7
Broiler	30.5	31.1	31.2	31.4	31.7	31.8	32.1	32.3	32.5	32.6	32.8
Total	92.3	91.8	92.2	93.0	93.6	94.1	94.4	94.7	95.0	95.5	95.9
China - Mainland											
Beef and Veal	4.7	4.8	4.9	5.1	5.2	5.4	5.6	5.8	5.9	6.1	6.2
Pork	33.7	34.6	35.4	36.2	37.1	37.9	38.8	39.6	40.5	41.3	42.2
Broiler	9.6	9.8	10.1	10.3	10.6	10.8	11.1	11.3	11.5	11.7	11.9
Lamb-Mutton	1.8	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1
Total	49.9	51.0	52.2	53.5	54.8	56.1	57.4	58.7	59.9	61.2	62.4
China - Hong Kong											
Beef and Veal	16.2	16.4	16.5	16.7	17.0	17.2	17.4	17.7	18.0	18.3	18.5
Pork	69.8	69.7	69.5	69.7	69.9	70.4	71.0	71.4	71.7	71.9	72.0
Broiler	36.8	36.7	37.1	37.5	37.8	38.1	38.3	38.6	38.8	39.1	39.4
Total	122.8	122.7	123.1	123.8	124.6	125.7	126.7	127.6	128.5	129.2	129.9
Egypt											
Beef and Veal	6.8	6.9	7.2	7.3	7.5	7.7	7.7	7.8	7.9	7.9	8.0
Broiler	6.5	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.3
Total	13.3	13.5	13.8	14.1	14.3	14.6	14.7	14.9	15.0	15.2	15.3
European Union											
Beef and Veal	17.4	17.4	17.5	17.5	17.6	17.5	17.4	17.3	17.2	17.1	17.0
Pork	42.7	42.6	42.7	42.8	42.9	43.0	43.2	43.3	43.4	43.6	43.8
Broiler	17.2	17.3	17.4	17.5	17.6	17.6	17.7	17.8	17.9	18.0	18.1
Lamb-Mutton	2.8	2.8	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Total	80.0	80.1	80.4	80.6	80.8	80.9	81.0	81.2	81.3	81.5	81.7
India											
Beef and Veal	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7
Broiler	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Total	3.8	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.1	4.1	4.1

Note: Carcass weight basis for beef and veal and pork consumption and ready-to-cook equivalent for broiler and poultry consumption.

Per Capita Meat Consumption of Selected Countries (continued)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Kilograms)											
Indonesia											
Beef and Veal	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.4	2.5
Pork	2.5	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6
Broiler	3.5	3.5	3.5	3.6	3.7	3.8	3.8	3.9	4.0	4.1	4.2
Lamb	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total	8.3	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.3	9.5	9.6
Japan											
Beef and Veal - All	9.3	9.6	9.7	10.0	10.3	10.6	10.7	10.8	10.9	10.9	11.0
Wagyu	1.7	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Dairy	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0
Import	5.3	5.7	5.7	6.0	6.3	6.6	6.7	6.8	6.9	7.0	7.0
Pork	19.6	19.2	19.2	19.5	19.7	20.0	20.3	20.5	20.7	20.8	20.9
Broiler	15.2	15.2	15.4	15.6	15.7	15.7	15.7	15.7	15.7	15.8	15.8
Total	44.1	44.0	44.3	45.1	45.7	46.2	46.6	47.0	47.3	47.5	47.7
Mexico											
Beef and Veal	24.1	23.8	23.9	23.9	24.1	24.1	24.3	24.5	24.7	24.9	25.1
Pork	14.5	14.2	14.2	14.3	14.5	14.7	15.0	15.2	15.4	15.6	15.8
Broiler	29.0	28.5	29.0	29.3	29.7	29.9	30.1	30.4	30.7	31.1	31.6
Total	67.6	66.6	67.1	67.6	68.2	68.7	69.4	70.1	70.8	71.7	72.5
New Zealand											
Beef and Veal	27.6	26.4	26.0	25.9	25.9	25.9	25.8	25.8	25.7	25.7	25.6
Pork	12.6	13.2	13.5	13.7	14.0	14.4	14.6	14.9	15.2	15.4	15.7
Broiler	34.9	33.4	33.8	34.4	35.1	35.6	35.9	36.2	36.5	36.9	37.2
Total	75.0	73.1	73.3	74.1	75.0	75.8	76.4	76.9	77.4	78.0	78.5
Other Eastern Europe											
Beef and Veal	4.5	4.4	4.4	4.4	4.4	4.5	4.5	4.6	4.7	4.8	4.8
Pork	3.8	3.9	4.0	4.0	4.1	4.2	4.3	4.4	4.5	4.5	4.6
Poultry	4.2	4.1	4.1	4.2	4.2	4.3	4.4	4.5	4.6	4.7	4.8
Total	12.5	12.4	12.4	12.6	12.7	12.9	13.2	13.5	13.7	14.0	14.2
Other CIS											
Beef and Veal	18.8	18.9	19.0	19.1	19.3	19.4	19.5	19.7	19.8	19.9	20.0
Pork	7.9	7.9	8.0	8.1	8.1	8.2	8.3	8.3	8.4	8.4	8.5
Poultry	6.1	6.1	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1
Total	32.8	33.0	33.3	33.6	33.9	34.2	34.5	34.8	35.0	35.3	35.5
Paraguay											
Beef and Veal	32.0	31.8	31.9	31.9	31.9	31.9	31.8	31.8	31.7	31.8	31.8
Pork	15.4	15.2	15.2	15.2	15.2	15.3	15.4	15.4	15.4	15.4	15.4
Broiler	6.3	6.2	6.3	6.3	6.4	6.3	6.3	6.3	6.3	6.3	6.3
Total	53.6	53.2	53.3	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.4
Philippines											
Beef and Veal	3.9	3.9	3.8	3.9	3.9	3.9	4.0	4.0	4.1	4.1	4.2
Pork	13.0	13.2	13.3	13.4	13.6	13.8	13.9	14.1	14.3	14.4	14.6
Broiler	7.5	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3
Total	24.3	24.4	24.6	24.9	25.2	25.5	25.8	26.1	26.4	26.8	27.1
Russia											
Beef and Veal	16.5	16.6	16.6	16.6	16.6	16.7	16.8	17.0	17.1	17.2	17.3
Pork	21.2	21.5	21.9	22.4	22.8	23.1	23.4	23.6	23.9	24.2	24.4
Broiler	19.8	21.1	21.3	21.8	22.1	22.4	22.6	22.9	23.2	23.5	23.8
Total	57.5	59.2	59.9	60.8	61.5	62.3	62.9	63.5	64.2	64.9	65.5

Note: Carcass weight basis for beef and veal and pork consumption and ready-to-cook equivalent for broiler and poultry consumption.

Per Capita Meat Consumption of Selected Countries (continued)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
South Africa											
Beef and Veal	14.2	14.1	14.2	14.5	14.8	15.2	15.6	16.0	16.4	16.7	17.0
Broiler	26.0	26.5	26.9	27.5	28.1	28.9	29.6	30.3	31.0	31.7	32.4
Total	40.2	40.7	41.1	42.0	42.9	44.0	45.2	46.3	47.4	48.4	49.4
South Korea											
Beef and Veal	11.6	12.2	12.3	12.7	13.0	13.2	13.5	13.7	13.9	14.2	14.4
Pork	31.0	31.1	32.0	32.7	33.1	33.9	34.7	35.3	35.9	36.2	36.4
Broiler	12.5	13.1	14.3	14.9	15.3	15.4	15.6	15.7	15.9	16.1	16.4
Total	55.1	56.4	58.6	60.3	61.4	62.6	63.8	64.8	65.7	66.5	67.2
Taiwan											
Beef and Veal	4.6	4.5	4.6	4.7	4.9	5.1	5.3	5.5	5.7	5.8	6.0
Pork	40.5	40.6	41.0	41.7	42.4	43.2	43.8	44.5	45.1	45.7	46.2
Broiler	28.8	29.2	30.0	30.7	31.4	32.0	32.5	32.9	33.4	33.9	34.5
Total	73.9	74.3	75.5	77.2	78.7	80.2	81.6	82.9	84.2	85.5	86.7
Thailand											
Beef and Veal	3.0	3.1	3.1	3.1	3.2	3.3	3.3	3.4	3.5	3.5	3.6
Pork	10.7	10.7	10.9	11.0	11.2	11.4	11.6	11.8	11.9	12.1	12.3
Broiler	12.3	12.5	12.6	12.8	12.9	13.1	13.3	13.5	13.7	13.9	14.1
Total	26.0	26.3	26.6	27.0	27.3	27.8	28.2	28.7	29.1	29.5	29.9
Ukraine											
Beef and Veal	10.4	11.1	10.9	11.1	11.3	11.3	11.4	11.5	11.6	11.6	11.7
Pork	16.2	14.5	14.7	15.1	15.7	16.3	16.8	17.2	17.6	18.1	18.5
Broiler	17.1	18.6	18.7	19.2	19.9	20.6	21.2	21.8	22.4	22.9	23.4
Total	43.7	44.2	44.3	45.4	46.9	48.2	49.5	50.5	51.6	52.6	53.6
Vietnam											
Beef and Veal	1.9	2.0	2.0	2.1	2.1	2.2	2.3	2.3	2.4	2.5	2.5
Pork	21.9	21.4	21.7	22.0	22.3	22.6	22.8	23.0	23.1	23.3	23.6
Broiler	3.8	3.7	3.8	3.9	3.9	4.0	4.1	4.2	4.3	4.3	4.4
Total	27.7	27.1	27.5	27.9	28.4	28.8	29.2	29.5	29.8	30.2	30.5
United States											
Beef and Veal	40.5	40.0	39.8	39.0	38.5	38.2	38.0	38.0	37.9	38.0	38.1
Pork	28.7	28.8	28.0	27.9	27.8	27.9	28.1	28.4	28.7	28.6	28.6
Broiler	44.2	44.3	44.3	44.6	44.8	44.9	45.0	45.1	45.3	45.5	45.8
Total	113.4	113.2	112.2	111.5	111.1	111.0	111.1	111.5	111.9	112.2	112.5

Note: Carcass weight basis for beef and veal and pork consumption and ready-to-cook equivalent for broiler and poultry consumption.

WORLD DAIRY PRODUCTS

World Butter and Cheese

Total world butter production increases 29.3% over the baseline, with India accounting for about 90% of the growth. India, one of the biggest milk producers in the world, continues to expand its milk production, with a 1.4% annual growth in cow milk production and a 3.1% annual growth in buffalo milk production. Buffalo milk is more valued because of its high fat content. Driven by rapidly growing domestic demand and strong world prices, Indian butter production increases 58.5%. Butter exports reach a record at the midterm of the baseline and then decrease as more production is absorbed by domestic markets. New Zealand, the EU, and Australia remain the world's largest butter exporters, supplying 90% of total butter trade at the end of the baseline. As New Zealand and Australian butter exports rise, EU net exports languish.

Russia, a leading importer in the world butter market, gradually increases its butter imports as well as its domestic production. Because the growth in consumption outpaces the growth in production, Russian butter imports increase throughout the baseline. Driven by economic growth and westernized diets, consumption grows steadily in Asia, especially in China.

Total world cheese production grows 18.2%, with the U.S. and the EU accounting for about 52.4%. Strong demand drives a 24.8% increase in world cheese trade over the decade. EU cheese exports decline because of strong domestic demand. Australia and New Zealand's combined cheese market share increases by 6.6% and reaches 49.2% at the end of the baseline. Argentina and Ukraine become increasingly important players in international cheese markets, together accounting for 9.1% of total exports by 2018.

Because of higher returns from cheese production and restricted milk supply, more milk is diverted from butter and NFD into cheese production in the EU. Cheese production rises 12.2% over the baseline, while butter and NFD production decrease. Australian and New Zealand cheese production increase 3.5% and 2.9% annually, respectively. Both Argentine and Brazilian cheese production increase 4.1% annually, respectively.

Russia and Japan are the leading cheese importers and account for 42.9% of total world imports on average. Sustained by economic and population growth, cheese imports of other Asian countries (China, Indonesia, Malaysia, Philippines, South Korea, Thailand, and Vietnam) increase by 2.6% annually. Mexican cheese imports rise 38.3% over the baseline.

Butter Trade

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Net Exporters											
Argentina	4	6	7	7	9	10	12	13	15	17	19
Australia	42	46	66	78	89	93	95	97	101	105	109
Canada	-5	2	0	0	0	0	0	2	5	9	11
Colombia	6	6	6	5	4	3	2	2	1	1	1
European Union	37	51	55	56	56	59	63	65	69	71	74
India	6	13	15	17	20	22	27	24	18	15	9
New Zealand	374	391	396	402	410	412	414	416	418	420	421
Ukraine	7	23	22	19	17	18	21	22	25	29	33
Uruguay	11	15	14	14	15	16	17	18	19	20	21
Total Net Exports *	577	589	620	646	676	695	717	730	743	762	775
Net Importers											
Algeria	12	14	13	13	13	13	14	14	15	15	16
Brazil	-3	-11	-13	-16	-20	-23	-26	-29	-32	-34	-36
China	36	37	42	45	48	51	53	55	57	60	61
Egypt	53	55	57	59	60	62	63	64	66	68	69
Indonesia	11	15	16	16	16	17	17	17	18	18	18
Japan	14	10	11	12	13	13	14	14	15	15	17
Malaysia	10	12	12	13	13	14	14	15	15	16	16
Mexico	58	64	66	65	63	61	61	60	60	60	60
Peru	0	0	1	1	0	0	0	0	0	0	0
Philippines	10	11	12	12	12	13	13	13	13	14	14
Russia	130	135	137	138	143	145	143	145	145	148	145
Saudi Arabia	36	40	45	49	50	52	54	55	56	57	58
South Korea	-4	2	3	5	6	6	6	7	7	8	8
Switzerland	3	3	3	4	4	3	3	2	2	1	1
Thailand	15	16	16	17	17	18	19	19	20	21	21
United States	-84	-25	-26	-32	-36	-38	-41	-41	-41	-41	-41
Venezuela	2	3	3	3	3	3	4	4	4	4	4
Vietnam	6	8	8	9	9	10	10	11	11	12	12
Rest of World	175	164	175	186	204	214	228	233	239	246	253
Total Net Imports	577	589	620	646	676	695	717	730	743	762	775
Price											
Oceania Export Price	3,649	1,942	1,780	1,807	1,854	1,890	1,935	2,010	2,058	2,093	2,135
FOB Price N. Europe	3,895	2,141	1,863	1,861	1,891	1,952	2,029	2,079	2,161	2,221	2,292

* Total net exports are the sum of all positive net exports and negative net imports.

Cheese Trade

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Net Exporters											
Argentina	33	44	46	46	51	51	52	53	52	51	50
Australia	134	141	152	166	173	182	190	198	205	211	218
Colombia	4	4	4	5	5	5	5	6	6	7	7
European Union	425	412	397	393	389	384	382	383	379	377	374
New Zealand	302	325	338	360	372	381	390	395	399	404	410
Switzerland	36	25	21	20	20	21	23	24	25	26	26
Ukraine	65	71	80	79	73	70	69	76	82	87	92
Uruguay	20	19	20	22	23	25	26	27	28	29	30
Total Net Exports *	1,022	1,049	1,085	1,122	1,130	1,149	1,177	1,210	1,232	1,255	1,276
Net Importers											
Algeria	24	27	28	29	29	30	31	32	34	35	36
Brazil	-3	-9	-27	-30	-23	-30	-40	-48	-55	-61	-66
Canada	15	17	17	17	17	18	18	18	18	18	18
China	46	49	51	50	54	59	63	67	76	80	84
Egypt	4	1	4	4	4	4	8	12	14	17	20
Indonesia	9	10	10	10	11	11	11	12	12	12	13
Japan	205	210	215	220	223	224	226	226	227	227	227
Malaysia	8	9	9	10	10	11	11	11	12	12	13
Mexico	88	91	95	98	96	97	102	111	115	117	122
Peru	1	4	4	4	3	2	1	-1	-2	-2	-3
Philippines	9	13	14	14	14	15	15	16	16	17	17
Russia	260	259	265	267	272	278	279	281	287	296	297
Saudi Arabia	82	80	85	85	87	89	92	93	96	98	101
South Korea	52	54	62	61	59	58	60	61	62	64	66
Thailand	2	3	3	3	3	3	4	4	4	4	4
United States	40	96	95	85	80	78	76	75	74	73	72
Venezuela	12	9	6	5	5	7	7	9	9	10	11
Vietnam	1	2	2	2	2	2	2	2	2	2	2
Rest of World	164	116	120	158	160	163	173	180	174	173	173
Total Net Imports	1,022	1,049	1,085	1,122	1,130	1,149	1,177	1,210	1,232	1,255	1,276
Price											
Oceania Export Price	4,681	2,402	2,289	2,529	2,648	2,698	2,768	2,851	2,905	2,951	2,991
FOB Price N. Europe	4,963	2,480	2,356	2,619	2,748	2,802	2,879	2,969	3,027	3,078	3,121

* Total net exports are the sum of all positive net exports and negative net imports.

World Milk Powder

Over the next decade, world NFD and WMP production increase 16.1% and 21.2%, respectively. Milk powder production increases in most countries except the EU. Stimulated by strong import demand, especially from Asia, Australia and New Zealand NFD and WMP production increase steadily in the next decade. Total NFD and WMP volumes in the two countries increase 33.3% and 20.2%, respectively. As a by-product, India's NFD production grows 48%, creating excess supplies that allow Indian NFD exports to rise.

Argentina's dairy sector expands over the baseline. Its NFD and WMP production increase 7.7% and 3.7% annually, respectively. Rising production facilitates an increase in Argentine dairy exports. Improved domestic economic conditions and favorable government policies boost Brazilian dairy production. NFD and WMP production increase 93.2% and 40.5%, respectively, during the projection period, which enables Brazil to become a rising exporter in the world markets.

Australia, New Zealand, the EU, and the U.S. together captured about 88.3% of the NFD export market in 2008. Their combined market share stays at around 82% over the baseline, as there is a slight increase in NFD exports from other countries, including Argentina and Brazil. Asian countries, Algeria, and Mexico are major importers and increase their NFD imports over the projection period.

WMP trade grows 23.4% over the baseline. While EU WMP exports decrease by 14.3%, Australia, New Zealand, and Argentina expand their exports by 77.7%, 14.2%, and 46.8%, respectively. These three countries account for over 60% of total WMP exports by the end of baseline. Major importers Algeria, Saudi Arabia, and Malaysia steadily expand their WMP imports, accounting for over a quarter of world WMP imports.

Southeast Asia (Indonesia, Malaysia, Philippines, Thailand, and Vietnam) maintains strong NFD imports, accounting for 36% of the world total. China and Japan together account for about 9% of the NFD import market by the end of the baseline. Southeast Asian WMP imports rise 4% annually throughout the baseline and account for about 20% of world imports by 2018. Chinese WMP exports are negatively affected by the milk scandal for the next couple of years. Over the long run, as domestic WMP production expands and as consumers substitute more fluid milk for reconstituted milk powder, Chinese WMP exports increase slightly.

Nonfat Dry Milk Trade

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Net Exporters											
Argentina	13	21	22	22	25	26	27	30	32	34	36
Australia	119	143	167	180	191	194	196	199	204	210	217
Canada	11	12	14	13	10	8	7	7	9	11	11
Colombia	3	2	2	2	2	1	1	1	0	0	-1
European Union	175	181	184	190	198	199	201	204	207	208	209
India	39	54	57	59	60	61	66	69	74	78	84
New Zealand	272	302	309	315	324	327	329	332	334	337	339
Switzerland	9	13	12	11	11	11	11	11	11	11	11
Ukraine	40	58	53	47	43	40	37	37	36	36	35
United States	385	170	190	233	255	306	329	352	368	384	400
Uruguay	13	14	15	14	16	17	18	20	21	22	23
Total Net Exports *	1,077	982	1,038	1,108	1,168	1,231	1,268	1,310	1,347	1,383	1,415
Net Importers											
Algeria	91	86	90	95	100	106	111	117	124	130	137
Brazil	5	-12	-15	-22	-34	-41	-45	-49	-51	-51	-50
China	40	43	46	51	52	57	61	65	69	74	79
Egypt	31	32	32	33	34	35	35	36	37	37	38
Indonesia	154	142	148	154	159	164	168	173	177	182	186
Japan	35	36	36	37	37	37	38	39	40	40	41
Malaysia	58	59	62	65	67	70	73	76	79	82	85
Mexico	198	192	205	217	220	226	232	235	238	242	248
Peru	7	7	8	8	8	8	8	8	8	8	9
Philippines	70	74	79	82	83	85	87	89	91	93	95
Russia	40	37	40	39	40	42	42	43	42	43	41
Saudi Arabia	23	26	29	31	33	36	39	42	44	47	50
South Korea	4	4	3	3	2	3	4	3	5	5	5
Thailand	77	74	78	81	82	85	88	91	94	97	100
Venezuela	7	7	7	7	7	8	8	8	8	8	8
Vietnam	25	24	26	27	28	31	33	35	37	40	42
Rest of World	211	138	150	178	215	238	241	250	254	254	250
Total Net Imports	1,077	982	1,038	1,108	1,168	1,231	1,268	1,310	1,347	1,383	1,415
Price											
(U.S. Dollars per Metric Ton)											
Oceania Export Price	3,330	1,967	1,814	1,975	2,147	2,178	2,235	2,324	2,401	2,472	2,526
FOB Price N. Europe	3,246	2,103	1,975	2,110	2,254	2,280	2,328	2,402	2,467	2,526	2,572

* Total net exports are the sum of all positive net exports and negative net imports.

Whole Milk Powder Trade

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Net Exporters											
Argentina	122	140	148	149	151	151	157	162	168	174	179
Australia	99	97	106	113	125	136	144	151	160	168	175
Canada	0	0	0	0	0	0	0	0	0	0	0
Colombia	35	24	22	18	12	4	-2	-4	-6	-8	-11
European Union	399	396	379	364	356	351	348	348	348	346	342
New Zealand	666	666	694	708	717	727	736	745	750	756	760
Ukraine	23	25	26	26	27	28	29	31	32	34	35
Uruguay	21	20	19	20	22	24	25	27	29	31	34
Total Net Exports *	1,438	1,472	1,505	1,533	1,571	1,596	1,630	1,672	1,712	1,745	1,774
Net Importers											
Algeria	179	182	187	191	195	200	205	209	214	219	224
Brazil	-55	-95	-95	-104	-119	-131	-141	-152	-161	-167	-171
China	-18	-10	-17	-31	-42	-45	-49	-56	-64	-70	-77
Egypt	38	42	43	45	46	48	50	52	53	55	57
Indonesia	44	37	40	41	44	45	46	48	50	51	53
Malaysia	97	101	104	106	109	113	115	118	121	124	126
Mexico	8	11	16	20	20	18	18	19	19	23	27
Peru	13	16	17	16	17	18	18	19	19	20	21
Philippines	14	15	17	18	19	21	22	24	26	28	31
Russia	30	32	32	26	22	22	20	18	17	16	15
Saudi Arabia	95	108	113	114	118	121	124	126	128	131	135
South Korea	1	3	4	4	4	4	4	4	4	4	4
Thailand	39	42	42	43	45	46	48	49	50	52	53
Venezuela	93	95	93	92	93	92	92	92	92	91	91
Vietnam	40	44	48	51	56	60	65	70	75	80	85
Rest of World	746	745	750	766	783	788	801	821	838	843	840
Total Net Imports	1,438	1,472	1,505	1,533	1,571	1,596	1,630	1,672	1,712	1,745	1,774
Price											
Oceania Export Price	3,913	1,973	1,857	2,029	2,154	2,205	2,277	2,363	2,443	2,504	2,547
FOB Price N. Europe	3,999	2,101	1,988	2,184	2,225	2,283	2,365	2,462	2,553	2,621	2,671

* Total net exports are the sum of all positive net exports and negative net imports.

U.S. Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	9,271	9,221	9,044	8,940	8,907	8,884	8,866	8,854	8,851	8,855	8,870
Milk Production per Cow	9,281	9,317	9,502	9,690	9,840	9,979	10,113	10,246	10,376	10,504	10,630
Cow Milk Production	86,046	85,913	85,938	86,621	87,641	88,646	89,659	90,714	91,832	93,014	94,294
Fluid Milk Consumption	28,243	29,075	28,929	28,762	28,788	28,854	28,950	29,059	29,168	29,284	29,422
Other Disappearance	57,803	56,839	57,009	57,860	58,854	59,792	60,709	61,654	62,665	63,729	64,872
Butter											
Production	744	696	701	714	721	728	733	735	737	740	742
Beginning Stocks	70	54	56	51	51	52	52	53	53	53	53
Domestic Supply	814	751	757	765	772	779	785	788	790	793	796
Consumption	676	670	680	682	684	689	692	695	696	699	701
Shipments	0	0	0	0	0	0	0	0	0	0	0
Ending Stocks	54	56	51	51	52	52	53	53	53	53	53
Domestic Use	731	726	731	733	736	742	745	748	750	752	755
Net Trade	84	25	26	32	36	38	41	41	41	41	41
Cheese											
Production	4,462	4,469	4,525	4,598	4,689	4,757	4,822	4,885	4,952	5,023	5,099
Beginning Stocks	362	377	411	401	397	403	412	419	425	431	438
Domestic Supply	4,825	4,845	4,936	4,999	5,086	5,161	5,234	5,303	5,377	5,454	5,537
Consumption	4,488	4,531	4,630	4,686	4,763	4,827	4,891	4,953	5,019	5,089	5,164
Shipments	29	29	29	29	29	29	29	29	29	29	29
Ending Stocks	377	411	401	397	403	412	419	425	431	438	445
Domestic Use	4,894	4,970	5,060	5,112	5,195	5,267	5,338	5,407	5,479	5,555	5,637
Net Trade	-40	-96	-95	-85	-80	-78	-76	-75	-74	-73	-72
Nonfat Dry Milk											
Production	828	669	653	695	714	739	765	794	827	860	897
Beginning Stocks	72	91	146	122	48	49	51	53	55	57	59
Domestic Supply	900	760	799	816	762	788	816	847	881	917	956
Consumption	425	443	488	535	458	431	434	440	456	474	494
Shipments	0	0	0	0	0	0	0	0	0	0	0
Ending Stocks	91	146	122	48	49	51	53	55	57	59	62
Domestic Use	515	590	609	583	507	482	487	495	513	533	556
Net Trade	385	170	190	233	255	306	329	352	368	384	400
Prices						(U.S. Dollars per Metric Ton)					
All Milk	404	286	314	353	364	368	372	378	385	391	398
Butter Wholesale	3,226	2,729	3,009	3,318	3,377	3,415	3,418	3,505	3,602	3,709	3,818
Cheese Wholesale	4,091	3,021	3,325	3,679	3,763	3,765	3,791	3,841	3,896	3,949	4,002
Nonfat Dry Milk Wholesale	2,865	1,868	1,876	2,145	2,258	2,310	2,389	2,438	2,485	2,531	2,577

Algerian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Thousand Head)											
Milk Cow Numbers	956	1,011	1,057	1,073	1,086	1,115	1,147	1,165	1,181	1,202	1,235
(Kilograms)											
Milk Production per Cow	1,300	1,330	1,345	1,360	1,375	1,390	1,405	1,420	1,435	1,450	1,465
(Thousand Metric Tons)											
Cow Milk Production	1,243	1,345	1,422	1,460	1,493	1,550	1,611	1,655	1,694	1,743	1,809
Fluid Milk Consumption	1,465	1,483	1,500	1,518	1,536	1,554	1,572	1,589	1,607	1,624	1,641
Manufacturing Use	118	107	107	110	112	113	115	116	117	118	119
Butter											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Supply	1	1	1	1	1	1	1	1	1	1	1
Consumption	12	14	13	13	13	13	14	14	15	15	16
Ending Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Use	13	15	14	14	14	14	15	15	16	16	17
Net Trade	-12	-14	-13	-13	-13	-13	-14	-14	-15	-15	-16
Cheese											
Production	13	12	12	12	12	12	13	13	13	13	13
Beginning Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Supply	14	13	13	13	13	13	14	14	14	14	14
Consumption	37	39	40	41	42	43	44	45	47	48	49
Ending Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Use	38	40	41	42	43	44	45	46	48	49	50
Net Trade	-24	-27	-28	-29	-29	-30	-31	-32	-34	-35	-36
Nonfat Dry Milk											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	8	15	15	15	15	15	15	15	15	15	15
Domestic Supply	8	15	15	15	15	15	15	15	15	15	15
Consumption	84	86	90	95	100	106	111	117	124	130	137
Ending Stocks	15	15	15	15	15	15	15	15	15	15	15
Domestic Use	99	101	105	110	115	121	126	132	139	145	152
Net Trade	-91	-86	-90	-95	-100	-106	-111	-117	-124	-130	-137
Whole Milk Powder											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	9	8	8	8	8	8	8	8	8	8	8
Domestic Supply	9	8	8	8	8	8	8	8	8	8	8
Consumption	180	182	187	191	195	200	205	209	214	219	224
Ending Stocks	8	8	8	8	8	8	8	8	8	8	8
Domestic Use	188	190	195	199	203	208	213	217	222	227	232
Net Trade	-179	-182	-187	-191	-195	-200	-205	-209	-214	-219	-224

Argentine Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Thousand Head)											
Milk Cow Numbers	2,150	2,204	2,243	2,290	2,342	2,391	2,441	2,492	2,543	2,596	2,649
(Kilograms)											
Milk Production per Cow	4,698	4,838	4,903	4,968	5,033	5,098	5,163	5,228	5,293	5,358	5,423
(Thousand Metric Tons)											
Cow Milk Production	10,100	10,664	10,998	11,377	11,786	12,191	12,600	13,026	13,460	13,909	14,367
Fluid Milk Consumption	1,950	2,004	2,030	2,048	2,075	2,113	2,153	2,194	2,239	2,285	2,334
Manufacturing Use	8,124	8,635	8,941	9,303	9,685	10,051	10,421	10,805	11,195	11,599	12,007
Butter											
Production	45	52	53	54	56	57	59	61	63	65	67
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	47	52	53	54	56	57	59	61	63	65	67
Consumption	44	46	46	47	47	47	47	48	48	48	49
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	44	46	46	47	47	47	47	48	48	48	49
Net Trade	4	6	7	7	9	10	12	13	15	17	19
Cheese											
Production	540	600	618	628	653	676	701	727	753	779	806
Beginning Stocks	35	52	52	52	52	52	52	52	52	52	52
Domestic Supply	575	652	670	680	705	728	753	779	805	831	858
Consumption	490	556	572	582	601	625	649	674	701	728	756
Ending Stocks	52	52	52	52	52	52	52	52	52	52	52
Domestic Use	542	608	624	634	653	677	701	726	753	780	808
Net Trade	33	44	46	46	51	51	52	53	52	51	50
Nonfat Dry Milk											
Production	25	33	34	35	37	39	41	44	47	49	53
Beginning Stocks	5	8	8	8	8	8	8	8	8	8	8
Domestic Supply	30	41	42	43	45	47	49	52	55	57	61
Consumption	9	12	13	13	13	13	14	14	15	16	16
Ending Stocks	8	8	8	8	8	8	8	8	8	8	8
Domestic Use	17	20	21	21	21	21	22	22	23	24	24
Net Trade	13	21	22	22	25	26	27	30	32	34	36
Whole Milk Powder											
Production	217	211	227	237	243	251	263	275	288	301	313
Beginning Stocks	32	60	60	60	60	60	60	60	60	60	60
Domestic Supply	249	271	287	297	303	311	323	335	348	361	373
Consumption	67	72	79	87	93	100	106	113	120	127	134
Ending Stocks	60	60	60	60	60	60	60	60	60	60	60
Domestic Use	127	132	139	147	153	160	166	173	180	187	194
Net Trade	122	140	148	149	151	151	157	162	168	174	179

Australian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	1,765	1,812	1,819	1,854	1,899	1,951	2,005	2,060	2,117	2,175	2,232
Milk Production per Cow	5,442	5,279	5,325	5,377	5,432	5,481	5,530	5,582	5,632	5,681	5,729
Cow Milk Production	9,605	9,563	9,687	9,970	10,314	10,695	11,091	11,501	11,925	12,354	12,786
Fluid Milk Consumption	2,213	2,272	2,299	2,322	2,345	2,367	2,389	2,410	2,431	2,453	2,474
Manufacturing Use	7,326	7,224	7,322	7,580	7,902	8,261	8,635	9,024	9,426	9,834	10,245
Butter											
Production	112	128	137	149	159	163	165	168	172	176	181
Beginning Stocks	9	14	29	33	36	36	37	37	37	37	37
Domestic Supply	121	142	167	182	194	200	202	205	209	213	218
Consumption	65	67	68	69	69	70	70	70	71	71	72
Ending Stocks	14	29	33	36	36	37	37	37	37	37	38
Domestic Use	79	96	101	104	105	106	107	107	108	109	109
Net Trade	42	46	66	78	89	93	95	97	101	105	109
Cheese											
Production	347	362	381	399	412	426	439	452	464	476	489
Beginning Stocks	17	15	14	14	13	13	13	12	12	12	12
Domestic Supply	364	376	395	413	425	439	452	464	476	489	501
Consumption	215	222	229	234	239	244	249	254	259	265	270
Ending Stocks	15	14	14	13	13	13	12	12	12	12	13
Domestic Use	230	236	243	247	252	257	262	266	272	277	283
Net Trade	134	141	152	166	173	182	190	198	205	211	218
Nonfat Dry Milk											
Production	179	207	222	234	243	246	248	250	256	263	270
Beginning Stocks	38	51	65	69	72	73	74	75	75	76	78
Domestic Supply	217	258	287	304	315	319	322	325	331	339	347
Consumption	47	50	51	51	51	51	51	51	51	51	51
Ending Stocks	51	65	69	72	73	74	75	75	76	78	79
Domestic Use	98	115	120	123	124	125	126	126	127	129	130
Net Trade	119	143	167	180	191	194	196	199	204	210	217
Whole Milk Powder											
Production	127	130	140	148	160	172	180	188	197	206	214
Beginning Stocks	22	21	21	21	21	21	21	21	21	21	21
Domestic Supply	149	150	160	169	181	193	201	209	218	227	235
Consumption	30	33	34	35	35	36	37	37	38	39	39
Ending Stocks	21	21	21	21	21	21	21	21	21	21	21
Domestic Use	50	54	55	55	56	57	57	58	58	59	60
Net Trade	99	97	106	113	125	136	144	151	160	168	175
Milk Farm Prices											
Fluid Milk Average	50	34	33	34	34	35	36	37	37	38	38
Retail Milk	254	174	168	171	175	177	180	184	187	190	192
Export Prices											
Butter	4,119	2,586	2,359	2,254	2,273	2,322	2,381	2,479	2,543	2,590	2,646
Cheese	5,284	3,199	3,034	3,154	3,247	3,315	3,407	3,516	3,588	3,652	3,707
NFD	3,759	2,620	2,404	2,463	2,633	2,676	2,751	2,865	2,966	3,059	3,132
WMP	4,417	2,628	2,461	2,530	2,641	2,709	2,803	2,914	3,018	3,098	3,157

Brazilian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Thousand Head)											
Milk Cow Numbers	16,700	16,984	17,108	17,191	17,354	17,472	17,612	17,718	17,813	17,897	17,977
(Kilograms)											
Milk Production per Cow	1,730	1,777	1,845	1,923	1,996	2,069	2,142	2,216	2,290	2,363	2,437
(Thousand Metric Tons)											
Cow Milk Production	28,890	30,181	31,565	33,055	34,634	36,147	37,726	39,261	40,783	42,297	43,811
Fluid Milk Consumption	10,674	11,407	12,062	12,304	12,785	13,343	13,880	14,412	14,988	15,583	16,202
Manufacturing Use	17,658	18,206	18,932	20,176	21,268	22,221	23,258	24,256	25,200	26,116	27,008
Butter											
Production	84	94	98	101	106	110	114	118	121	124	128
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	84	94	98	101	106	110	114	118	121	124	128
Consumption	81	83	85	85	86	87	88	89	90	91	92
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	81	83	85	85	86	87	88	89	90	91	92
Net Trade	3	11	13	16	20	23	26	29	32	34	36
Cheese											
Production	630	674	733	760	786	811	838	864	889	913	938
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	630	674	733	760	786	811	838	864	889	913	938
Consumption	627	665	706	731	763	781	798	815	833	852	872
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	627	665	706	731	763	781	798	815	833	852	872
Net Trade	3	9	27	30	23	30	40	48	55	61	66
Nonfat Dry Milk											
Production	133	160	168	179	198	211	223	234	243	250	257
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	133	160	168	179	198	211	223	234	243	250	257
Consumption	138	148	153	158	163	171	178	185	192	199	207
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	138	148	153	158	163	171	178	185	192	199	207
Net Trade	-5	12	15	22	34	41	45	49	51	51	50
Whole Milk Powder											
Production	580	644	663	681	707	729	749	767	784	800	815
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	580	644	663	681	707	729	749	767	784	800	815
Consumption	525	550	568	577	588	599	607	615	623	632	644
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	525	550	568	577	588	599	607	615	623	632	644
Net Trade	55	95	95	104	119	131	141	152	161	167	171

Canadian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	985	980	978	966	953	942	931	924	919	913	904
Milk Production per Cow	8,396	8,509	8,621	8,734	8,848	8,960	9,073	9,185	9,298	9,410	9,523
Cow Milk Production	8,270	8,338	8,432	8,434	8,430	8,443	8,450	8,484	8,544	8,594	8,611
Fluid Milk Consumption	3,145	3,166	3,163	3,167	3,168	3,168	3,166	3,163	3,160	3,157	3,154
Manufacturing Use	4,735	4,784	4,882	4,885	4,885	4,903	4,916	4,957	5,022	5,077	5,100
Butter											
Production	84	82	84	85	85	84	84	86	88	91	92
Beginning Stocks	11	15	12	13	13	13	13	13	13	12	12
Domestic Supply	95	97	97	97	97	97	96	98	100	103	104
Consumption	85	83	84	84	84	84	84	84	83	82	81
Ending Stocks	15	12	13	13	13	13	13	13	12	12	12
Domestic Use	100	96	96	97	97	97	97	96	95	94	93
Net Trade	-5	2	0	0	0	0	0	2	5	9	11
Cheese											
Production	306	310	312	317	322	327	332	338	343	347	352
Beginning Stocks	68	70	70	74	73	73	74	73	73	73	73
Domestic Supply	374	380	383	391	396	400	406	411	415	420	425
Consumption	319	321	336	339	343	347	348	348	351	356	361
Ending Stocks	70	70	74	73	73	74	73	73	73	73	74
Domestic Use	389	391	410	413	416	421	421	421	424	430	434
Net Trade	-15	-17	-17	-17	-17	-18	-18	-18	-18	-18	-18
Nonfat Dry Milk											
Production	83	83	85	84	83	83	82	84	88	92	92
Beginning Stocks	20	41	43	43	43	42	42	42	43	43	44
Domestic Supply	103	124	128	127	125	125	125	126	130	135	136
Consumption	51	69	71	72	73	74	76	77	78	80	81
Ending Stocks	41	43	43	43	42	42	42	43	43	44	44
Domestic Use	92	112	114	115	116	117	118	120	122	124	125
Net Trade	11	12	14	13	10	8	7	7	9	11	11
Prices											
Industrial Milk, Target	72.94	74.50	76.13	77.79	79.48	81.24	83.03	84.85	86.72	88.62	90.56
Fluid Milk	84.33	78.00	79.48	81.00	82.55	84.16	85.79	87.46	89.17	90.91	92.68
Butter Support	6.99	7.10	7.23	7.35	7.48	7.61	7.74	7.88	8.01	8.15	8.30
NFD Support	6.05	6.18	6.31	6.45	6.59	6.73	6.87	7.02	7.17	7.32	7.48

Chinese Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Thousand Head)											
Milk Cow Numbers	18,220	19,137	19,531	19,813	20,044	20,214	20,341	20,441	20,524	20,593	20,651
(Kilograms)											
Milk Production per Cow	2,074	2,179	2,244	2,338	2,412	2,489	2,570	2,654	2,737	2,819	2,901
(Thousand Metric Tons)											
Cow Milk Production	37,790	41,695	43,823	46,320	48,351	50,305	52,270	54,249	56,177	58,049	59,902
Fluid Milk Consumption	11,762	14,217	15,540	16,544	17,899	19,265	20,626	22,017	23,422	24,953	26,597
Manufacturing Use	25,469	26,784	27,528	28,952	29,578	30,122	30,684	31,231	31,717	32,025	32,202
Butter											
Production	97	103	107	108	111	113	116	118	120	123	125
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	97	103	107	108	111	113	116	118	120	123	125
Consumption	133	140	149	154	159	164	169	173	178	182	187
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	133	140	149	154	159	164	169	173	178	182	187
Net Trade	-36	-37	-42	-45	-48	-51	-53	-55	-57	-60	-61
Cheese											
Production	248	262	271	279	285	290	296	305	309	313	317
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	248	262	271	279	285	290	296	305	309	313	317
Consumption	294	311	321	330	339	349	359	373	385	393	402
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	294	311	321	330	339	349	359	373	385	393	402
Net Trade	-46	-49	-51	-50	-54	-59	-63	-67	-76	-80	-84
Nonfat Dry Milk											
Production	56	67	73	76	80	84	88	92	96	101	105
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	56	67	73	76	80	84	88	92	96	101	105
Consumption	96	111	119	127	133	141	149	157	166	175	184
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	96	111	119	127	133	141	149	157	166	175	184
Net Trade	-40	-43	-46	-51	-52	-57	-61	-65	-69	-74	-79
Whole Milk Powder											
Production	1,198	1,215	1,258	1,304	1,355	1,394	1,438	1,492	1,536	1,575	1,613
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1,198	1,215	1,258	1,304	1,355	1,394	1,438	1,492	1,536	1,575	1,613
Consumption	1,180	1,206	1,242	1,273	1,313	1,349	1,389	1,436	1,472	1,504	1,537
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1,180	1,206	1,242	1,273	1,313	1,349	1,389	1,436	1,472	1,504	1,537
Net Trade	18	10	17	31	42	45	49	56	64	70	77

Colombian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Thousand Head)											
Milk Cow Numbers	7,006	7,061	7,075	7,115	7,172	7,231	7,282	7,359	7,425	7,487	7,545
(Kilograms)											
Milk Production per Cow	1,006	1,013	1,018	1,021	1,028	1,036	1,043	1,053	1,062	1,072	1,082
(Thousand Metric Tons)											
Cow Milk Production	7,048	7,155	7,206	7,261	7,374	7,489	7,598	7,748	7,888	8,029	8,165
Fluid Milk Consumption	4,506	4,595	4,708	4,851	4,982	5,111	5,227	5,342	5,455	5,567	5,684
Manufacturing Use	1,894	1,868	1,895	1,902	1,914	1,882	1,868	1,894	1,916	1,937	1,950
Butter											
Production	28	29	30	29	29	29	29	29	29	29	29
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	28	29	30	29	29	29	29	29	29	29	29
Consumption	22	23	24	25	25	26	27	27	28	28	29
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	22	23	24	25	25	26	27	27	28	28	29
Net Trade	6	6	6	5	4	3	2	2	1	1	1
Cheese											
Production	63	64	66	69	71	73	76	78	81	83	85
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	63	64	66	69	71	73	76	78	81	83	85
Consumption	59	61	62	64	66	68	70	72	74	76	78
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	59	61	62	64	66	68	70	72	74	76	78
Net Trade	4	4	4	5	5	5	5	6	6	7	7
Nonfat Dry Milk											
Production	12	13	13	12	13	12	12	12	11	10	10
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	12	13	13	12	13	12	12	12	11	10	10
Consumption	9	10	10	11	11	11	11	11	11	11	11
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	9	10	10	11	11	11	11	11	11	11	11
Net Trade	3	2	2	2	2	1	1	1	0	0	-1
Whole Milk Powder											
Production	104	96	96	96	95	90	87	88	88	88	87
Beginning Stocks	8	8	8	8	8	8	8	8	8	8	8
Domestic Supply	112	104	104	104	103	98	95	96	96	96	95
Consumption	69	72	74	79	83	86	89	92	94	96	98
Ending Stocks	8	8	8	8	8	8	8	8	8	8	8
Domestic Use	77	80	82	87	91	94	97	100	102	104	106
Net Trade	35	24	22	18	12	4	-2	-4	-6	-8	-11

Egyptian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Thousand Head)											
Milk Cow Numbers	1,624	1,642	1,669	1,674	1,684	1,704	1,713	1,720	1,732	1,744	1,754
(Kilograms)											
Milk Production per Cow	942	992	1,020	1,062	1,095	1,122	1,150	1,180	1,209	1,238	1,265
(Thousand Metric Tons)											
Cow Milk Production	1,530	1,629	1,702	1,778	1,844	1,912	1,970	2,029	2,095	2,159	2,219
Fluid Milk Consumption	1,610	1,683	1,756	1,844	1,911	1,955	1,997	2,040	2,083	2,130	2,179
Manufacturing Use	2,021	2,091	2,138	2,164	2,196	2,244	2,279	2,311	2,347	2,374	2,393
Butter											
Production	5	6	6	6	6	6	6	6	6	6	5
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	5	6	6	6	6	6	6	6	6	6	5
Consumption	58	61	63	65	66	68	69	70	72	73	74
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	58	61	63	65	66	68	69	70	72	73	74
Net Trade	-53	-55	-57	-59	-60	-62	-63	-64	-66	-68	-69
Cheese											
Production	433	444	454	461	468	478	486	493	502	509	515
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	433	444	454	461	468	478	486	493	502	509	515
Consumption	437	445	458	465	472	483	493	504	516	526	535
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	437	445	458	465	472	483	493	504	516	526	535
Net Trade	-4	-1	-4	-4	-4	-4	-8	-12	-14	-17	-20
Nonfat Dry Milk											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	31	32	32	33	34	35	35	36	37	37	38
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	31	32	32	33	34	35	35	36	37	37	38
Net Trade	-31	-32	-32	-33	-34	-35	-35	-36	-37	-37	-38
Whole Milk Powder											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	38	42	43	45	46	48	50	52	53	55	57
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	38	42	43	45	46	48	50	52	53	55	57
Net Trade	-38	-42	-43	-45	-46	-48	-50	-52	-53	-55	-57

European Union Dairy Supply and Utilization

Indian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Thousand Head)											
Milk Cow Numbers	38,375	38,754	39,135	39,519	39,904	40,291	40,679	41,068	41,457	41,846	42,235
(Kilograms)											
Milk Production per Cow	1,141	1,148	1,154	1,159	1,164	1,169	1,174	1,179	1,184	1,189	1,194
(Thousand Metric Tons)											
Cow Milk Production	43,798	44,501	45,176	45,808	46,455	47,108	47,764	48,424	49,089	49,760	50,434
Buffalo Milk Production	60,478	62,666	65,286	67,161	69,061	71,070	73,106	75,171	77,394	79,649	81,936
Total Milk Production	104,275	107,168	110,462	112,968	115,516	118,178	120,870	123,595	126,483	129,408	132,370
Fluid Milk Consumption	43,584	46,373	48,626	49,822	51,083	52,389	53,700	55,039	56,400	57,790	59,181
Manufacturing Use	60,686	60,789	61,830	63,141	64,428	65,783	67,164	68,551	70,077	71,613	73,183
Butter											
Production	3,611	4,078	4,326	4,479	4,672	4,846	5,021	5,207	5,384	5,577	5,723
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	3,611	4,078	4,326	4,479	4,672	4,846	5,021	5,207	5,384	5,577	5,723
Consumption	3,605	4,065	4,310	4,461	4,652	4,824	4,994	5,183	5,366	5,561	5,713
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	3,605	4,065	4,310	4,461	4,652	4,824	4,994	5,183	5,366	5,561	5,713
Net Trade	6	13	15	17	20	22	27	24	18	15	9
Nonfat Dry Milk											
Production	339	371	388	397	406	419	434	449	466	483	501
Beginning Stocks	13	15	10	10	10	10	10	10	10	10	10
Domestic Supply	351	386	398	407	416	429	444	459	476	493	511
Consumption	298	322	332	338	347	358	368	380	392	405	417
Ending Stocks	15	10	10	10	10	10	10	10	10	10	10
Domestic Use	313	332	342	348	357	368	378	390	402	415	427
Net Trade	39	54	57	59	60	61	66	69	74	78	84

Indonesian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	379	388	398	400	407	418	426	434	443	452	460
Milk Production per Cow	1,587	1,603	1,622	1,626	1,642	1,657	1,670	1,684	1,699	1,712	1,726
Cow Milk Production	601	621	645	650	669	693	712	731	753	774	794
Fluid Milk Consumption	349	357	374	381	389	398	407	415	424	433	442
Manufacturing Use	618	636	649	652	670	691	708	724	743	761	778
Butter											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	11	15	16	16	16	17	17	17	18	18	18
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	11	15	16	16	16	17	17	17	18	18	18
Net Trade	-11	-15	-16	-16	-16	-17	-17	-17	-18	-18	-18
Cheese											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	9	10	10	10	11	11	11	12	12	12	13
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	9	10	10	10	11	11	11	12	12	12	13
Net Trade	-9	-10	-10	-10	-11	-11	-11	-12	-12	-12	-13
Nonfat Dry Milk											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	9	7	7	7	7	7	7	7	7	7	7
Domestic Supply	9	7	7	7	7	7	7	7	7	7	7
Consumption	156	142	148	154	159	164	168	173	177	182	186
Ending Stocks	7	7	7	7	7	7	7	7	7	7	7
Domestic Use	163	149	155	161	166	171	175	180	184	189	193
Net Trade	-154	-142	-148	-154	-159	-164	-168	-173	-177	-182	-186
Whole Milk Powder											
Production	48	52	53	56	56	58	60	62	64	66	68
Beginning Stocks	5	6	6	6	6	6	6	6	6	6	6
Domestic Supply	53	58	59	62	62	64	66	68	70	72	74
Consumption	91	89	94	97	100	103	106	110	113	117	120
Ending Stocks	6	6	6	6	6	6	6	6	6	6	6
Domestic Use	97	95	100	103	106	109	112	116	119	123	126
Net Trade	-44	-37	-40	-41	-44	-45	-46	-48	-50	-51	-53

Japanese Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Thousand Head)											
Milk Cow Numbers	862	856	849	842	835	826	818	808	798	787	776
(Kilograms)											
Milk Production per Cow	9,269	9,326	9,379	9,430	9,480	9,530	9,580	9,629	9,679	9,729	9,779
(Thousand Metric Tons)											
Cow Milk Production	7,990	7,982	7,964	7,943	7,914	7,876	7,832	7,781	7,723	7,660	7,592
Fluid Milk Consumption	4,450	4,396	4,378	4,369	4,352	4,331	4,309	4,284	4,257	4,227	4,195
Manufacturing Use	3,455	3,501	3,503	3,491	3,480	3,464	3,442	3,417	3,388	3,355	3,321
Butter											
Production	73	75	75	75	75	74	74	73	72	72	71
Beginning Stocks	16	18	18	18	18	18	18	18	18	18	18
Domestic Supply	89	93	93	93	93	92	92	91	90	90	89
Consumption	85	86	87	87	87	87	87	87	87	87	88
Ending Stocks	18	18	18	18	18	18	18	18	18	18	18
Domestic Use	103	104	105	105	105	105	105	105	105	105	106
Net Trade	-14	-10	-11	-12	-13	-13	-14	-14	-15	-15	-17
Cheese											
Production	55	60	64	67	70	73	76	78	80	83	84
Beginning Stocks	15	15	15	15	15	15	15	15	15	15	15
Domestic Supply	70	75	79	82	85	88	91	93	95	98	99
Consumption	260	270	278	287	293	297	301	305	307	310	311
Ending Stocks	15	15	15	15	15	15	15	15	15	15	15
Domestic Use	275	285	293	302	308	312	316	320	322	325	326
Net Trade	-205	-210	-215	-220	-223	-224	-226	-226	-227	-227	-227
Nonfat Dry Milk											
Production	170	171	170	168	165	163	160	156	153	150	146
Beginning Stocks	38	33	33	33	33	33	33	33	33	33	33
Domestic Supply	208	204	203	201	198	196	193	189	186	183	179
Consumption	210	208	206	204	202	200	198	195	193	190	187
Ending Stocks	33	33	33	33	33	33	33	33	33	33	33
Domestic Use	243	241	239	237	235	233	231	228	226	223	220
Net Trade	-35	-36	-36	-37	-37	-37	-38	-39	-40	-40	-41
Prices											
(Yen per Kilogram)											
Milk Farm Price	81	82	82	83	83	84	85	85	86	86	87
Butter Wholesale	1,060	969	913	886	877	877	883	889	898	905	913
NFD Wholesale	563	530	515	513	516	518	520	523	526	529	531
Cheese Retail	1,990	1,654	1,425	1,293	1,211	1,155	1,118	1,097	1,084	1,076	1,073

Malaysian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	93	95	99	100	101	103	105	106	108	110	113
Milk Production per Cow	460	465	472	475	480	484	484	486	488	490	492
Cow Milk Production	43	44	47	47	49	50	51	51	53	54	55
Fluid Milk Consumption	54	56	58	60	62	64	66	68	70	72	75
Manufacturing Use	2	3	4	3	3	3	2	2	1	1	1
Butter											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	10	12	12	13	13	14	14	15	15	16	16
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	10	12	12	13	13	14	14	15	15	16	16
Net Trade	-10	-12	-12	-13	-13	-14	-14	-15	-15	-16	-16
Cheese											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	8	9	9	10	10	11	11	11	12	12	13
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	8	9	9	10	10	11	11	11	12	12	13
Net Trade	-8	-9	-9	-10	-10	-11	-11	-11	-12	-12	-13
Nonfat Dry Milk											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	58	59	62	65	67	70	73	76	79	82	85
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	58	59	62	65	67	70	73	76	79	82	85
Net Trade	-58	-59	-62	-65	-67	-70	-73	-76	-79	-82	-85
Whole Milk Powder											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	97	101	104	106	109	113	115	118	121	124	126
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	97	101	104	106	109	113	115	118	121	124	126
Net Trade	-97	-101	-104	-106	-109	-113	-115	-118	-121	-124	-126

Mexican Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Thousand Head)											
Milk Cow Numbers	2,401	2,401	2,401	2,401	2,401	2,401	2,402	2,402	2,402	2,402	2,402
(Kilograms)											
Milk Production per Cow	4,504	4,607	4,744	4,808	4,898	5,059	5,177	5,338	5,518	5,615	5,708
(Thousand Metric Tons)											
Cow Milk Production	10,814	11,060	11,389	11,546	11,759	12,148	12,435	12,821	13,254	13,487	13,711
Fluid Milk Consumption	4,253	3,926	4,086	4,135	4,154	4,245	4,318	4,380	4,489	4,607	4,735
Manufacturing Use	6,833	7,406	7,575	7,683	7,876	8,175	8,388	8,713	9,037	9,152	9,248
Butter											
Production	130	135	138	142	147	152	155	159	164	168	172
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	130	135	138	142	147	152	155	159	164	168	172
Consumption	188	200	204	207	210	213	216	220	224	228	232
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	188	200	204	207	210	213	216	220	224	228	232
Net Trade	-58	-64	-66	-65	-63	-61	-61	-60	-60	-60	-60
Cheese											
Production	150	154	157	161	169	176	179	178	184	192	198
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	150	154	157	161	169	176	179	178	184	192	198
Consumption	238	245	252	259	265	273	281	289	299	309	319
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	238	245	252	259	265	273	281	289	299	309	319
Net Trade	-88	-91	-95	-98	-96	-97	-102	-111	-115	-117	-122
Nonfat Dry Milk											
Production	12	17	17	17	22	24	27	31	35	39	42
Beginning Stocks	20	20	20	20	20	20	20	20	20	20	20
Domestic Supply	32	37	37	37	42	44	47	51	55	59	62
Consumption	210	209	222	235	241	251	259	266	273	281	290
Ending Stocks	20	20	20	20	20	20	20	20	20	20	20
Domestic Use	230	229	242	255	261	271	279	286	293	301	310
Net Trade	-198	-192	-205	-217	-220	-226	-232	-235	-238	-242	-248
Whole Milk Powder											
Production	131	135	136	136	140	144	149	153	158	160	160
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	131	135	136	136	140	144	149	153	158	160	160
Consumption	139	146	152	156	159	162	167	172	177	182	187
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	139	146	152	156	159	162	167	172	177	182	187
Net Trade	-8	-11	-16	-20	-20	-18	-18	-19	-19	-23	-27

New Zealand Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	4,296	4,344	4,395	4,452	4,507	4,550	4,583	4,607	4,627	4,646	4,662
Milk Production per Cow	3,688	3,703	3,756	3,814	3,865	3,904	3,941	3,975	4,013	4,052	4,089
Cow Milk Production	15,846	16,085	16,507	16,980	17,420	17,762	18,060	18,315	18,570	18,824	19,061
Fluid Milk Consumption	336	336	335	328	324	323	321	318	316	313	311
Manufacturing Use	15,363	15,601	16,024	16,503	16,947	17,289	17,589	17,846	18,103	18,360	18,599
Butter											
Production	399	415	420	426	434	436	438	440	442	443	445
Beginning Stocks	17	34	34	34	34	34	34	34	34	34	34
Domestic Supply	431	449	453	460	468	470	472	473	475	477	479
Consumption	23	24	24	24	24	24	24	24	24	24	24
Ending Stocks	34	34	34	34	34	34	34	34	34	34	34
Domestic Use	57	58	58	58	58	58	58	58	57	57	57
Net Trade	374	391	396	402	410	412	414	416	418	420	421
Cheese											
Production	332	351	365	388	401	411	419	426	431	436	442
Beginning Stocks	14	28	28	28	28	28	28	28	28	28	28
Domestic Supply	354	379	394	416	429	439	448	454	459	465	471
Consumption	24	26	28	28	28	29	30	31	31	32	33
Ending Stocks	28	28	28	28	28	28	28	28	28	28	28
Domestic Use	52	54	56	56	57	58	58	59	60	60	61
Net Trade	302	325	338	360	372	381	390	395	399	404	410
Nonfat Dry Milk											
Production	280	304	311	317	326	329	331	334	337	339	341
Beginning Stocks	16	30	30	30	30	30	30	30	30	30	30
Domestic Supply	303	334	340	346	356	359	361	363	366	369	371
Consumption	1	2	2	2	2	2	2	2	2	2	3
Ending Stocks	30	30	30	30	30	30	30	30	30	30	30
Domestic Use	31	32	32	32	32	32	32	32	32	32	32
Net Trade	272	302	309	315	324	327	329	332	334	337	339
Whole Milk Powder											
Production	685	695	699	708	718	728	737	743	751	757	762
Beginning Stocks	40	68	96	100	98	97	97	96	94	93	93
Domestic Supply	735	763	795	807	816	825	834	840	845	850	855
Consumption	1	1	1	1	1	2	2	1	1	2	2
Ending Stocks	68	96	100	98	97	97	96	94	93	93	93
Domestic Use	69	97	101	100	99	99	98	95	95	94	94
Net Trade	666	666	694	708	717	727	736	745	750	756	760

Peruvian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	785	794	800	815	852	903	952	992	1,028	1,059	1,089
Milk Production per Cow	2,018	2,033	2,069	2,111	2,191	2,267	2,313	2,364	2,422	2,479	2,537
Cow Milk Production	1,584	1,615	1,654	1,722	1,867	2,048	2,202	2,345	2,488	2,627	2,763
Fluid Milk Consumption	771	836	870	892	914	947	979	1,010	1,042	1,077	1,113
Manufacturing Use	812	774	779	825	949	1,096	1,219	1,331	1,442	1,546	1,646
Butter											
Production	2	2	2	2	2	2	2	2	3	3	3
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	2	2	2	2	2	2	2	2	3	3	3
Consumption	2	2	2	2	2	2	2	2	3	3	3
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	2	2	2	2	2	2	2	2	3	3	3
Net Trade	0	0	-1	-1	0	0	0	0	0	0	0
Cheese											
Production	14	12	12	13	15	17	19	20	22	23	24
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	14	12	12	13	15	17	19	20	22	23	24
Consumption	15	16	17	18	18	19	19	20	20	21	21
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	15	16	17	18	18	19	19	20	20	21	21
Net Trade	-1	-4	-4	-4	-3	-2	-1	1	2	2	3
Nonfat Dry Milk											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Supply	1	1	1	1	1	1	1	1	1	1	1
Consumption	7	7	8	8	8	8	8	8	8	8	9
Ending Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Use	8	8	9	9	9	9	9	9	9	9	10
Net Trade	-7	-7	-8	-8	-8	-8	-8	-8	-8	-8	-9
Whole Milk Powder											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Supply	1	1	1	1	1	1	1	1	1	1	1
Consumption	13	16	17	16	17	18	18	19	19	20	21
Ending Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Use	14	17	18	17	18	19	19	20	20	21	22
Net Trade	-13	-16	-17	-16	-17	-18	-18	-19	-19	-20	-21

Philippine Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	13	14	14	14	15	15	15	15	15	15	16
Milk Production per Cow	1,077	1,107	1,134	1,164	1,194	1,224	1,254	1,284	1,314	1,344	1,374
Cow Milk Production	14	15	16	17	17	18	19	19	20	21	21
Fluid Milk Consumption	52	55	60	63	66	68	70	72	74	76	79
Manufacturing Use	5	5	5	5	5	5	5	5	5	5	5
Butter											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	10	11	12	12	12	13	13	13	13	14	14
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	10	11	12	12	12	13	13	13	13	14	14
Net Trade	-10	-11	-12	-12	-12	-13	-13	-13	-13	-14	-14
Cheese											
Production	2	1	1	1	1	1	1	1	1	1	1
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	2	1	1	1	1	1	1	1	1	1	1
Consumption	11	14	14	14	15	15	16	16	17	17	18
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	11	14	14	14	15	15	16	16	17	17	18
Net Trade	-9	-13	-14	-14	-14	-15	-15	-16	-16	-17	-17
Nonfat Dry Milk											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	2	2	0	0	0	0	0	0	0	0	0
Domestic Supply	2	2	0	0	0	0	0	0	0	0	0
Consumption	70	76	79	82	83	85	87	89	91	93	95
Ending Stocks	2	0	0	0	0	0	0	0	0	0	0
Domestic Use	72	76	79	82	83	85	87	89	91	93	95
Net Trade	-70	-74	-79	-82	-83	-85	-87	-89	-91	-93	-95
Whole Milk Powder											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	14	15	17	18	19	21	22	24	26	28	31
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	14	15	17	18	19	21	22	24	26	28	31
Net Trade	-14	-15	-17	-18	-19	-21	-22	-24	-26	-28	-31

Russian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	9,800	9,705	9,619	9,524	9,441	9,369	9,305	9,248	9,194	9,144	9,097
Milk Production per Cow	3,316	3,385	3,454	3,524	3,594	3,664	3,734	3,804	3,874	3,944	4,014
Cow Milk Production	32,500	32,855	33,226	33,559	33,928	34,326	34,744	35,175	35,616	36,062	36,512
Fluid Milk Consumption	12,100	12,338	12,455	12,442	12,429	12,440	12,407	12,385	12,375	12,387	12,348
Manufacturing Use	17,795	17,938	18,216	18,588	18,993	19,400	19,868	20,337	20,803	21,251	21,753
Butter											
Production	305	312	314	319	322	326	331	335	340	345	351
Beginning Stocks	15	12	12	12	13	13	13	13	13	13	14
Domestic Supply	320	324	327	332	334	338	344	348	354	358	364
Consumption	438	447	451	457	464	471	474	479	485	493	496
Ending Stocks	12	12	12	13	13	13	13	13	13	14	14
Domestic Use	450	459	464	470	477	483	487	492	499	507	510
Net Trade	-130	-135	-137	-138	-143	-145	-143	-145	-145	-148	-145
Cheese											
Production	425	428	434	442	450	457	465	474	481	488	496
Beginning Stocks	12	14	14	14	14	14	14	14	14	14	14
Domestic Supply	437	442	448	456	464	471	479	488	495	502	510
Consumption	683	687	699	709	722	735	744	755	768	784	793
Ending Stocks	14	14	14	14	14	14	14	14	14	14	14
Domestic Use	697	701	713	723	736	749	758	769	782	798	807
Net Trade	-260	-259	-265	-267	-272	-278	-279	-281	-287	-296	-297
Nonfat Dry Milk											
Production	120	125	127	132	136	139	142	145	150	155	159
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	120	125	127	132	136	139	142	145	150	155	159
Consumption	160	163	167	171	175	180	184	188	192	197	201
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	160	163	167	171	175	180	184	188	192	197	201
Net Trade	-40	-37	-40	-39	-40	-42	-42	-43	-42	-43	-41
Whole Milk Powder											
Production	105	105	108	112	117	119	121	123	124	126	127
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	105	105	108	112	117	119	121	123	124	126	127
Consumption	135	137	140	138	140	140	141	141	141	141	142
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	135	137	140	138	140	140	141	141	141	141	142
Net Trade	-30	-32	-32	-26	-22	-22	-20	-18	-17	-16	-15

Saudi Arabian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	113	120	123	124	130	133	135	138	141	145	148
Milk Production per Cow	8,979	9,019	9,059	9,099	9,139	9,179	9,219	9,259	9,299	9,339	9,379
Cow Milk Production	1,015	1,087	1,118	1,128	1,186	1,223	1,248	1,277	1,311	1,350	1,391
Fluid Milk Consumption	1,105	1,158	1,234	1,288	1,319	1,351	1,377	1,402	1,425	1,452	1,481
Manufacturing Use	114	124	96	55	85	92	92	99	113	130	148
Butter											
Production	5	5	4	2	4	4	4	4	5	6	6
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	5	5	4	2	4	4	4	4	5	6	6
Consumption	41	46	49	52	54	56	58	59	61	63	65
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	41	46	49	52	54	56	58	59	61	63	65
Net Trade	-36	-40	-45	-49	-50	-52	-54	-55	-56	-57	-58
Cheese											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	82	80	85	85	87	89	92	93	96	98	101
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	82	80	85	85	87	89	92	93	96	98	101
Net Trade	-82	-80	-85	-85	-87	-89	-92	-93	-96	-98	-101
Nonfat Dry Milk											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	23	26	29	31	33	36	39	42	44	47	50
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	23	26	29	31	33	36	39	42	44	47	50
Net Trade	-23	-26	-29	-31	-33	-36	-39	-42	-44	-47	-50
Whole Milk Powder											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	95	108	113	114	118	121	124	126	128	131	135
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	95	108	113	114	118	121	124	126	128	131	135
Net Trade	-95	-108	-113	-114	-118	-121	-124	-126	-128	-131	-135

South Korean Dairy Supply and Utilization

Swiss Dairy Supply and Utilization

Thai Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	192	183	185	198	224	236	245	251	260	269	277
Milk Production per Cow	3,022	3,056	3,122	3,168	3,219	3,270	3,319	3,382	3,442	3,510	3,578
Cow Milk Production	580	559	578	628	720	773	814	849	896	943	991
Fluid Milk Consumption	826	899	942	978	1,043	1,132	1,219	1,311	1,403	1,494	1,588
Manufacturing Use	11	10	10	10	10	10	10	10	10	10	10
Butter											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	15	16	16	17	17	18	19	19	20	21	21
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	15	16	16	17	17	18	19	19	20	21	21
Net Trade	-15	-16	-16	-17	-17	-18	-19	-19	-20	-21	-21
Cheese											
Production	1	1	1	1	1	1	1	1	1	1	1
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1	1	1	1	1	1	1	1	1	1	1
Consumption	3	4	4	4	5	5	5	5	5	5	6
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	3	4	4	4	5	5	5	5	5	5	6
Net Trade	-2	-3	-3	-3	-3	-3	-4	-4	-4	-4	-4
Nonfat Dry Milk											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	21	21	21	21	21	21	21	21	21	21	21
Domestic Supply	21	21	21	21	21	21	21	21	21	21	21
Consumption	77	74	78	81	82	85	88	91	94	97	100
Ending Stocks	21	21	21	21	21	21	21	21	21	21	21
Domestic Use	98	95	99	102	103	106	109	112	115	118	121
Net Trade	-77	-74	-78	-81	-82	-85	-88	-91	-94	-97	-100
Whole Milk Powder											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	6	6	6	6	6	6	6	6	6	6	6
Domestic Supply	6	6	6	6	6	6	6	6	6	6	6
Consumption	39	42	42	43	45	46	48	49	50	52	53
Ending Stocks	6	6	6	6	6	6	6	6	6	6	6
Domestic Use	45	48	48	49	51	52	54	55	56	58	59
Net Trade	-39	-42	-42	-43	-45	-46	-48	-49	-50	-52	-53

Ukrainian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	2,979	2,607	2,425	2,321	2,271	2,244	2,227	2,218	2,206	2,204	2,203
Milk Production per Cow	3,716	3,806	3,894	3,982	4,070	4,158	4,246	4,334	4,422	4,510	4,598
Cow Milk Production	11,070	9,922	9,443	9,241	9,241	9,328	9,455	9,614	9,755	9,939	10,128
Fluid Milk Consumption	2,779	2,423	2,435	2,669	2,995	3,302	3,587	3,817	4,050	4,288	4,531
Manufacturing Use	7,400	6,763	6,344	5,949	5,642	5,433	5,281	5,214	5,126	5,073	5,019
Butter											
Production	89	93	94	96	100	103	106	110	114	118	122
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	89	93	94	96	100	103	106	110	114	118	122
Consumption	82	70	72	77	83	84	86	88	89	89	89
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	82	70	72	77	83	84	86	88	89	89	89
Net Trade	7	23	22	19	17	18	21	22	25	29	33
Cheese											
Production	256	256	266	274	277	283	289	300	310	320	331
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	256	256	266	274	277	283	289	300	310	320	331
Consumption	191	185	186	195	204	212	219	224	228	234	239
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	191	185	186	195	204	212	219	224	228	234	239
Net Trade	65	71	80	79	73	70	69	76	82	87	92
Nonfat Dry Milk											
Production	65	70	65	61	59	57	55	55	54	53	53
Beginning Stocks	2	2	2	2	2	2	2	2	2	2	2
Domestic Supply	67	72	67	63	61	59	57	57	56	55	55
Consumption	25	12	12	14	16	17	18	18	18	18	18
Ending Stocks	2	2	2	2	2	2	2	2	2	2	2
Domestic Use	27	14	14	16	18	19	20	20	20	20	20
Net Trade	40	58	53	47	43	40	37	37	36	36	35
Whole Milk Powder											
Production	40	42	43	45	46	48	49	51	53	55	57
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	40	42	43	45	46	48	49	51	53	55	57
Consumption	17	18	18	18	19	19	20	20	21	21	21
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	17	18	18	18	19	19	20	20	21	21	21
Net Trade	23	25	26	26	27	28	29	31	32	34	35

Uruguayan Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	960	969	975	985	991	998	1,005	1,012	1,018	1,025	1,032
Milk Production per Cow	1,741	1,763	1,780	1,787	1,797	1,815	1,822	1,832	1,844	1,854	1,864
Cow Milk Production	1,671	1,708	1,736	1,759	1,782	1,812	1,831	1,853	1,878	1,901	1,923
Fluid Milk Consumption	341	362	371	375	380	384	387	389	392	395	399
Manufacturing Use	1,184	1,205	1,204	1,220	1,239	1,265	1,281	1,300	1,321	1,340	1,358
Butter											
Production	17	21	21	21	23	24	25	26	27	28	29
Beginning Stocks	4	4	4	4	4	4	4	4	4	4	4
Domestic Supply	21	25	25	25	27	28	29	30	31	32	33
Consumption	6	7	7	7	8	8	8	8	8	8	9
Ending Stocks	4	4	4	4	4	4	4	4	4	4	4
Domestic Use	10	11	11	11	12	12	12	12	12	12	13
Net Trade	11	15	14	14	15	16	17	18	19	20	21
Cheese											
Production	30	32	34	36	37	39	40	42	43	45	46
Beginning Stocks	3	3	3	3	3	3	3	3	3	3	3
Domestic Supply	33	35	37	39	40	42	43	45	46	48	49
Consumption	11	13	13	13	14	14	14	15	15	16	16
Ending Stocks	3	3	3	3	3	3	3	3	3	3	3
Domestic Use	14	16	16	16	17	17	17	18	18	19	19
Net Trade	20	19	20	22	23	25	26	27	28	29	30
Nonfat Dry Milk											
Production	16	19	20	20	21	23	24	25	27	28	29
Beginning Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Supply	17	20	21	21	22	24	25	26	28	29	30
Consumption	4	5	5	5	5	5	5	6	6	6	6
Ending Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Use	5	6	6	6	6	6	6	7	7	7	7
Net Trade	13	14	15	14	16	17	18	20	21	22	23
Whole Milk Powder											
Production	26	26	25	27	29	31	32	34	36	38	41
Beginning Stocks	11	11	11	11	11	11	11	11	11	11	11
Domestic Supply	37	37	36	38	40	42	43	45	47	49	52
Consumption	5	6	7	7	7	7	7	7	7	7	7
Ending Stocks	11	11	11	11	11	11	11	11	11	11	11
Domestic Use	16	17	18	18	18	18	18	18	18	18	18
Net Trade	21	20	19	20	22	24	25	27	29	31	34

Venezuelan Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	742	768	804	813	822	829	835	837	841	850	860
Milk Production per Cow	1,811	1,829	1,847	1,865	1,882	1,900	1,917	1,935	1,953	1,970	1,988
Cow Milk Production	1,345	1,405	1,485	1,516	1,547	1,576	1,601	1,620	1,642	1,674	1,709
Fluid Milk Consumption	186	186	186	189	192	195	197	200	203	206	208
Manufacturing Use	1,159	1,219	1,299	1,327	1,355	1,381	1,404	1,420	1,439	1,468	1,501
Butter											
Production	1	1	1	1	1	1	1	1	1	1	1
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1	1	1	1	1	1	1	1	1	1	1
Consumption	4	4	4	4	4	5	5	5	5	6	6
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	4	4	4	4	4	5	5	5	5	6	6
Net Trade	-2	-3	-3	-3	-3	-3	-4	-4	-4	-4	-4
Cheese											
Production	64	69	75	78	81	82	84	86	88	90	92
Beginning Stocks	28	28	28	28	28	28	28	28	28	28	28
Domestic Supply	92	97	103	106	109	110	112	114	116	118	120
Consumption	76	78	81	83	86	89	92	94	97	100	103
Ending Stocks	28	28	28	28	28	28	28	28	28	28	28
Domestic Use	104	106	109	111	114	117	120	122	125	128	131
Net Trade	-12	-9	-6	-5	-5	-7	-7	-9	-9	-10	-11
Nonfat Dry Milk											
Production	3	4	4	4	4	4	4	4	4	4	4
Beginning Stocks	3	3	3	3	3	3	3	3	3	3	3
Domestic Supply	6	7	7	7	7	7	7	7	7	7	7
Consumption	11	11	11	11	11	12	12	12	12	12	13
Ending Stocks	3	3	3	3	3	3	3	3	3	3	3
Domestic Use	14	14	14	14	14	15	15	15	15	15	16
Net Trade	-7	-7	-7	-7	-7	-8	-8	-8	-8	-8	-8
Whole Milk Powder											
Production	28	29	30	31	31	32	32	33	33	34	34
Beginning Stocks	34	34	34	34	34	34	34	34	34	34	34
Domestic Supply	62	63	64	65	65	66	66	67	67	68	68
Consumption	122	123	123	123	123	124	124	124	125	125	125
Ending Stocks	34	34	34	34	34	34	34	34	34	34	34
Domestic Use	156	157	157	157	157	158	158	158	159	159	159
Net Trade	-93	-95	-93	-92	-93	-92	-92	-92	-92	-91	-91

Vietnamese Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Milk Cow Numbers	159	188	205	213	224	238	239	248	261	283	305
Milk Production per Cow	1,741	1,816	1,891	1,966	2,041	2,116	2,191	2,266	2,341	2,416	2,491
Cow Milk Production	276	341	388	418	458	504	523	561	611	684	760
Fluid Milk Consumption	156	188	198	207	213	222	231	240	249	259	268
Manufacturing Use	0	0	0	0	0	0	0	0	0	0	0
Butter											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	6	8	8	9	9	10	10	11	11	12	12
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	6	8	8	9	9	10	10	11	11	12	12
Net Trade	-6	-8	-8	-9	-9	-10	-10	-11	-11	-12	-12
Cheese											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	1	2	2	2	2	2	2	2	2	2	2
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1	2	2	2	2	2	2	2	2	2	2
Net Trade	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Nonfat Dry Milk											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	25	24	26	27	28	31	33	35	37	40	42
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	25	24	26	27	28	31	33	35	37	40	42
Net Trade	-25	-24	-26	-27	-28	-31	-33	-35	-37	-40	-42
Whole Milk Powder											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	40	44	48	51	56	60	65	70	75	80	85
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	40	44	48	51	56	60	65	70	75	80	85
Net Trade	-40	-44	-48	-51	-56	-60	-65	-70	-75	-80	-85

Per Capita Dairy Consumption of Selected Countries

Per Capita Dairy Consumption of Selected Countries (continued)

Per Capita Dairy Consumption of Selected Countries (continued)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
(Kilograms)											
Switzerland											
Fluid Milk	98.5	99.4	98.7	97.9	97.1	96.4	95.6	94.9	94.1	93.4	92.7
Butter	6.0	6.3	6.3	6.2	6.2	6.1	6.1	6.0	6.0	5.9	5.8
Cheese	18.6	20.0	20.0	19.9	19.9	19.9	19.9	19.9	19.9	20.0	20.0
NFD Milk	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Thailand											
Fluid Milk	12.6	13.6	14.2	14.7	15.6	16.8	18.0	19.3	20.5	21.8	23.0
Butter	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Cheese	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NFD Milk	1.2	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.5
Whole Milk Powder	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8
Ukraine											
Fluid Milk	60.4	53.0	53.6	59.1	66.8	74.1	81.0	86.7	92.6	98.7	105.0
Butter	1.8	1.5	1.6	1.7	1.8	1.9	1.9	2.0	2.0	2.0	2.1
Cheese	4.2	4.1	4.1	4.3	4.5	4.8	5.0	5.1	5.2	5.4	5.5
NFD Milk	0.5	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Whole Milk Powder	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5
United States											
Total Fluid Milk	93.0	94.9	93.6	92.2	91.5	91.0	90.5	90.1	89.7	89.3	89.0
Butter	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1
Cheese	14.8	14.8	15.0	15.0	15.1	15.2	15.3	15.4	15.4	15.5	15.6
NFD Milk	1.4	1.4	1.6	1.7	1.5	1.4	1.4	1.4	1.4	1.4	1.5
Uruguay											
Fluid Milk	98.1	103.7	105.6	106.5	107.2	107.9	108.3	108.5	108.9	109.5	110.0
Butter	1.7	1.9	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.4
Cheese	3.1	3.6	3.8	3.8	3.9	4.0	4.0	4.1	4.2	4.3	4.4
NFD Milk	1.1	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6
Whole Milk Powder	1.3	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0
Venezuela											
Fluid Milk	7.0	6.9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Butter	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Cheese	2.9	2.9	3.0	3.0	3.1	3.1	3.2	3.2	3.3	3.3	3.4
NFD Milk	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Whole Milk Powder	4.6	4.6	4.5	4.5	4.4	4.4	4.3	4.3	4.2	4.2	4.1
Vietnam											
Fluid Milk	1.8	2.2	2.3	2.3	2.4	2.5	2.5	2.6	2.7	2.8	2.8
Butter	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Cheese	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NFD Milk	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Whole Milk Powder	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.9