

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
http://ageconsearch.umn.edu
aesearch@umn.edu

Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.

FAPRI 2000 U.S. AGRICULTURAL OUTLOOK

January 2000

Staff Report 1-00 ISSN 1524-9298

Food and Agricultural Policy Research Institute

Iowa State University University of Missouri-Columbia

Ames, Iowa U.S.A.

Iowa State University University of Missouri-Columbia

Bruce A. Babcock
John Beghin
Abner W. Womack
Robert E. Young II

Samarendu Mohanty
Frank Fuller
Jay Fabiosa
Phillip Kaus

Cheng Fang Gary M. Adams
Chad Hart Brian Willott
Karen Kovarik Daniel Madison

Seth Meyer John Kruse

Published by the Food and Agricultural Policy Research Institute, Iowa State University and the University of Missouri-Columbia, 2000.

Material in this publication is based upon work supported by the Cooperative State Research Education and Extension Service, U.S. Department of Agriculture, under Agreement No. 96-34149-2533.

Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the authors and do not necessarily reflect the view of the U.S. Department of Agriculture.

Permission is granted to reproduce this information with appropriate attribution to the authors and the Food and Agricultural Policy Research Institute.

Iowa State University does not discriminate on the basis of race, color, age, religion, national origin, sexual orientation, sex, marital status, disability, or status as a U.S. Vietnam Era Veteran. Any persons having inquiries concerning this may contact the Director of Affirmative Action, 318 Beardshear Hall, 515-294-7612.

Contents

| Figures | iv |
|--|------|
| Tables | v |
| Abbreviations and Acronyms | viii |
| Overview of the 2000 U.S. Outlook | 1 |
| Baseline Assumptions and Price Projections | 3 |
| Macroeconomic Assumptions | |
| U.S. and World Policy Assumptions | |
| World Trade | 17 |
| World Wheat Trade | 20 |
| World Coarse Grain Trade | 23 |
| World Soybean and Soybean Products Trade | 28 |
| World Rapeseed and Rapeseed Products Trade | |
| World Sunflower Seed and Products Trade | 35 |
| World Palm Oil Complex Trade | |
| World Peanuts Trade | 40 |
| World Rice Trade | 43 |
| World All-Cotton Trade | 46 |
| World Sugar Trade | 49 |
| World Beef and Veal Trade | 52 |
| World Pork Trade | 54 |
| World Poultry Trade | 56 |
| World Dairy Trade | 58 |
| U.S. Crops | 61 |
| U.S. Wheat | |
| U.S. Corn | |
| U.S. Sorghum | 70 |
| U.S. Barley | |
| U.S. Oats | |
| U.S. Hay | |
| U.S. Peanuts | |
| U.S. Soybeans and Soybean Products | |
| U.S. Rice | |
| U.S. Upland Cotton | |
| U.S. Sugar | 00 |

| U.S. Livestock and Dairy | 93 |
|--|----------|
| U.S. Beef | 100 |
| U.S. Pork | 102 |
| U.S. Poultry | 104 |
| U.S. Dairy | 108 |
| State-Level Dairy Supply | 110 |
| U.S. Dairy Products | |
| | |
| U.S. Aggregate Measures | |
| U.S. Land Use | |
| U.S. Agricultural Exports | |
| U.S. Food Prices and Expenditures | |
| U.S. Government Costs | |
| U.S. Cash Receipts from Farm Marketings | |
| U.S. Farm Production Expenses | |
| U.S. Net Farm Income | 144 |
| Crop Insurance | 146 |
| Eiguros | |
| Figures | |
| Real GDP Growth Rates | 4 |
| Measures of U.S. Inflation | 4 |
| U.S. Prime Interest Rate | |
| Crude Oil, Average Refiner's Acquisition Costs | 5 |
| Conservation Reserve Program | |
| AMTA and Market Loss Assistance Payments, | |
| Includes 1998 and 1999 Spending Package | 6 |
| U.S. Crop Loan Rates | |
| CCC Purchase Prices for Dairy Products | |
| | |
| World Crop Trade and U.S. Market Share | |
| World Grain Stock-to-Use Ratio Versus Price | |
| World Meat Production | |
| World Meat Trade and U.S. Market Share | 19 |
| U.S. Crop Planted Area | 62 |
| U.S. Wheat Domestic Use | |
| U.S. Corn: Food and Industrial Use | |
| U.S. Soybean Utilization | |
| U.S. Crop Exports | 63 |
| • • | |
| II S Cron Prices | 64 |
| U.S. Crop Prices | 64 64 |
| U.S. Crop Prices U.S. Cotton Prices U.S. Rice Prices | |

| U.S. Cattle and Calves | 94 |
|---|--|
| U.S. Cattle Prices | |
| U.S. Pork Production | |
| IA-So. MN Barrow and Gilt Price | 95 |
| U.S. Poultry Production | 96 |
| U.S. Poultry Prices | |
| U.S. Livestock Production | |
| U.S. Meat Net Exports | 97 |
| U.S. Dairy Cows | 98 |
| U.S. Milk Production | 98 |
| U.S. Cheese Consumption per Person | 99 |
| U.S. Milk Prices | |
| | |
| U.S. Land Use | |
| Value of U.S. Agricultural Exports, Fiscal Year | |
| Consumer Price Index for Food | |
| Real Expenditures for Food | |
| Government Outlays, Fiscal Year | |
| U.S. Cash Receipts | |
| U.S. Farm Income | |
| Crop Insurance Outlays, Fiscal Year | 121 |
| Tables | |
| Domestic and International Economic Projections | 0 |
| U.S. Program Provisions | |
| | |
| <u> </u> | |
| Agricultural Policy Assumptions for Crops | 12 |
| Agricultural Policy Assumptions for Crops | 12 13 |
| Agricultural Policy Assumptions for Crops | 12 13 |
| Agricultural Policy Assumptions for Crops | 12 13 14 |
| Agricultural Policy Assumptions for Crops Agricultural Policy Assumptions for Livestock Policy Prices and World Prices by Commodity Wheat Trade | 12 13 14 22 |
| Agricultural Policy Assumptions for Crops Agricultural Policy Assumptions for Livestock Policy Prices and World Prices by Commodity | 12 13 14 22 25 |
| Agricultural Policy Assumptions for Crops Agricultural Policy Assumptions for Livestock Policy Prices and World Prices by Commodity Wheat Trade Corn Trade | 12 13 14 22 25 26 |
| Agricultural Policy Assumptions for Crops Agricultural Policy Assumptions for Livestock Policy Prices and World Prices by Commodity Wheat Trade Corn Trade Barley Trade | 12 13 14 22 25 26 27 |
| Agricultural Policy Assumptions for Crops Agricultural Policy Assumptions for Livestock Policy Prices and World Prices by Commodity Wheat Trade Corn Trade Barley Trade Sorghum Trade | 12 13 14 22 25 26 27 29 |
| Agricultural Policy Assumptions for Crops Agricultural Policy Assumptions for Livestock Policy Prices and World Prices by Commodity Wheat Trade Corn Trade Barley Trade Sorghum Trade Soybean Trade | 12 13 14 22 25 26 27 29 30 |
| Agricultural Policy Assumptions for Crops Agricultural Policy Assumptions for Livestock Policy Prices and World Prices by Commodity Wheat Trade Corn Trade Barley Trade Sorghum Trade Soybean Trade Soybean Meal Trade | 12 13 14 22 25 26 27 29 30 31 |
| Agricultural Policy Assumptions for Crops Agricultural Policy Assumptions for Livestock Policy Prices and World Prices by Commodity Wheat Trade Corn Trade Barley Trade Sorghum Trade Soybean Trade Soybean Meal Trade Soybean Oil Trade | 12 13 14 22 25 26 27 29 30 31 33 |
| Agricultural Policy Assumptions for Crops Agricultural Policy Assumptions for Livestock Policy Prices and World Prices by Commodity Wheat Trade Corn Trade Barley Trade Sorghum Trade Soybean Trade Soybean Meal Trade Soybean Oil Trade Rapeseed Trade | 12 13 14 22 25 26 27 29 30 31 33 33 |
| Agricultural Policy Assumptions for Crops Agricultural Policy Assumptions for Livestock Policy Prices and World Prices by Commodity Wheat Trade Corn Trade Barley Trade Sorghum Trade Soybean Trade Soybean Meal Trade Soybean Oil Trade Rapeseed Trade Rapeseed Meal Trade | 12 13 14 22 25 26 27 29 30 31 33 33 |
| Agricultural Policy Assumptions for Crops Agricultural Policy Assumptions for Livestock Policy Prices and World Prices by Commodity Wheat Trade Corn Trade Barley Trade Sorghum Trade Soybean Trade Soybean Meal Trade Soybean Oil Trade Rapeseed Trade Rapeseed Meal Trade Rapeseed Oil Trade | 12 13 14 22 25 26 27 29 30 31 33 33 34 36 |

| Palm Trade | 39 |
|---|-----|
| Peanut Trade | 41 |
| Rice Trade | 45 |
| All-Cotton Trade | 47 |
| Sugar Trade | 51 |
| Beef and Veal Trade | 53 |
| Pork Trade | 55 |
| Broiler Meat Trade | 57 |
| Dairy Product Trade | |
| - , | |
| U.S. Wheat Supply and Utilization | 67 |
| U.S. Corn Supply and Utilization | |
| U.S. Sorghum Supply and Utilization | |
| U.S. Barley Supply and Utilization | |
| U.S. Oat Supply and Utilization | |
| U.S. Hay Supply and Utilization | |
| U.S. Peanut Supply and Utilization | |
| U.S. Soybean Supply and Utilization | |
| U.S. Soybean Meal Supply and Utilization | |
| U.S. Soybean Oil Supply and Utilization | |
| U.S. Rice Supply and Utilization | |
| U.S. Upland Cotton Supply and Utilization | |
| U.S. Cottonseed Supply and Utilization | |
| U.S. Cottonseed Meal Supply and Utilization | |
| U.S. Cottonseed Oil Supply and Utilization | |
| U.S. Sugar Crop Production | |
| U.S. Sugar Supply and Utilization | |
| U.S. Sugar Supply and Othization | 91 |
| U.S. Beef Supply and Utilization | 101 |
| U.S. Pork Supply and Utilization | |
| U.S. Broiler Supply and Utilization | |
| U.S. Turkey Supply and Utilization | |
| U.S. Egg Supply and Utilization | |
| U.S. Milk Supply and Utilization | |
| U.S. Dairy Cows by State | |
| | |
| U.S. Milk Production by State State Level All Milk Prices | |
| | |
| U.S. Dairy Supply and Utilization | 113 |
| U.S. Planted and Idled Area | 123 |
| U.S. Wheat Production | |
| U.S. Corn Production | |
| | |
| U.S. Sorghum Production | |
| U.S. Barley Production | 1∠8 |

| U.S. Oat Production | 129 |
|--|-----|
| U.S. Hay Production | 130 |
| U.S. Soybean Production | 131 |
| U.S. Rice Production | 132 |
| U.S. Upland Cotton Production | 133 |
| Quantity of U.S. Agricultural Exports, Fiscal Year | 135 |
| Value of U.S. Agricultural Exports, Fiscal Year | 135 |
| Consumer Price Indexes for Food | 137 |
| Total Consumer Expenditures for Food | 137 |
| CCC Net Expenditures, by Program | 139 |
| U.S. Cash Receipts from Farming | 141 |
| U.S. Farm Production Expenses | 143 |
| U.S. Farm Income Statistics | 145 |
| FAPRI Crop Insurance Baseline | 147 |

Abbreviations and Acronyms

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

AMTA Agricultural Market Transition Act

AWP Adjusted World Price

BSE bovine spongiform encephalopathy
CAP Common Agricultural Policy
CCC Commodity Credit Corporation
CIF Cost, Insurance, and Freight
CPI Consumer Price Index

CRP Conservation Reserve Program

CSF classical swine fever cwt hundredweight

DEIP Dairy Export Incentive Program
EEP Export Enhancement Program
EPA Environmental Protection Agency

EU European Union

FAIR Act Federal Agriculture Improvement and Reform Act of 1996

FAPRI Food and Agricultural Policy Research Institute

FMD foot-and-mouth disease FMMO Federal Milk Market Order

FOB freight on board

FOR Farmer-Owned Reserve FSU Former Soviet Union

FY fiscal year

GATT General Agreement on Tariffs and Trade

GDP gross domestic product

GMO genetically modified organisms

GNP gross national product HFCS high-fructose corn syrup

kg kilogram

LDP loan deficiency payments

MERCOSUR The Common Market of the Southern Cone of South America

mha million hectares mmt million metric tons

mt metric ton

MTBE Methyl Tertiary Butyl Ether

NAFTA North American Free Trade Agreement

NFD nonfat dry milk NFI net farm income

NIS Newly Independent States
PPI producer price index
ROW Rest of World
tmt thousand metric tons
TMSB total milk-solids bases
TRQ tariff rate quota
WMP whole milk powder

WTO World Trade Organization UR Uruguay Round

URAA Uruguay Round Agreement on Agriculture

Overview of the 2000 U.S. Outlook

The Food and Agricultural Policy Research Institute (FAPRI), located at the University of Missouri and Iowa State University, develops long-term projections for world agriculture. The 10-year baseline results from a process that lasts several months. Initially, analysts from universities involved in the FAPRI consortium meet to determine the key assumptions that underlie the baseline. Based on these assumptions, preliminary projections are developed and then subjected to outside review. The last step is to incorporate comments from the reviewers, as well as any other changes, into the final baseline projections. Once the baseline is completed, FAPRI leaders travel to Washington, DC, for a series of briefings to congressional staff, analysts at the U.S. Department of Agriculture (USDA), and commodity groups.

Summary of Baseline Assumptions

Baseline projections are not forecasts of the most likely outcome, but rather a plausible scenario that is highly dependent on the underlying assumptions. Those assumptions generally fall into one of the following categories: macroeconomic, policy, technology, or weather.

FAPRI relies on the WEFA Group, a private forecasting firm, for the macroeconomic variables included in the projections. Compared to the recent slowdown in developing economies, the macroeconomic projections suggest a reasonably optimistic outlook. By 2001, real gross domestic product (GDP) growth in developing economies recovers to an annual rate of 5 percent, similar to levels observed in the early 1990s. Developed economies maintain growth between 2 and 3 percent annually. Crude oil prices are projected to average \$20 per barrel in 2000 and reach \$25 per barrel by 2008. In the United States, overall price inflation, as measured by the consumer price index (CPI), is projected at a modest level of 2.5 percent.

As is customary in a FAPRI baseline, current agricultural policies are assumed to hold for the duration of the baseline. By assuming constant policies, the baseline provides the "yardstick" against which alternative policies are measured. For the United States, the Federal Agriculture Improvement and Reform Act

(FAIR) is continued, with provisions for 2002 extended indefinitely. The baseline incorporates the assistance packages enacted in 1998 and 1999, but does not assume any future packages. For policies in the European Union (EU), the changes agreed upon in the Berlin Accord are incorporated into the baseline projections. FAPRI does not assume any new legislation or changes to current legislation beyond what has already been agreed upon. The current baseline does not assume expansion of the EU or a new World Trade Organization (WTO) agreement, nor does it incorporate China's accession into the WTO.

Assumptions are also made regarding rates of technological change, both for crop yields and livestock productivity. For the baseline, technological change is generally assumed to continue at rates consistent with recent history, unless there are overriding reasons to assume otherwise. Longer term, these assumptions become critical. For example, yield assumptions have a direct impact on the number of acres required for crop production. Likewise, gains in feed efficiency impact the amount of grain necessary to produce a pound of meat. The baseline projections assume "normal" weather, and as a result crop yields exhibit no year-to-year deviations from trend.

Overview of the Crops Sector

For the U.S. crops sector, the short-term projections suggest continued pressure on prices, with the long-range outlook characterized by guarded optimism. Since 1996, the crops sector has generally seen favorable yields and higher acreage levels at the same time that demand has been rather sluggish. The result has been that production has exceeded disappearance and stock levels have recovered. Subsequently, prices have fallen, and in some cases, reaching the lowest levels since the mid-1980s. Looking forward, under the assumption of trend yields, prices for wheat and feed grains are expected to show modest recovery in 2000, but still remain below historical averages. Domestic and export demand are both expected to continue to strengthen. For soybeans and cotton, little, if any, price recovery is expected for 2000. Despite low prices in 1999, acreage devoted to these two crops is

expected to increase in 2000. For soybeans, the loan rate is partially responsible for the increased acreage.

Looking toward the end of the baseline, crop prices are projected to recover to levels in line with historical averages. By 2008, corn prices reach \$2.50 per bushel, and wheat prices top \$3.50 per bushel. Income growth fuels the demand for food on a global basis, allowing U.S. exports to expand. In addition, domestic demand expands as the U.S. livestock sector increases production levels. With demand growth outpacing supply, stock levels of the major grains and oilseeds decline from their recent highs.

Overview of the Livestock Sector

The outlook for U.S. livestock shows more favorable times than what has been observed in recent years, particularly with regards to the output price. The beef cycle is in a liquidation phase, which continues to tighten the supply of feeder calves. Strengthening in prices is projected through 2003, with feeder steer prices averaging above \$90 per hundredweight (cwt). For beef, the long-term outlook depends on relatively stable domestic demand and continued growth in exports.

The U.S. pork sector has just completed two of the worst years, in terms of profitability. The result has been downsizing the breeding herd, which leads to declines in production for the 2000-02 period. While still below the levels observed in the mid-1990s, pork prices are expected to recover and average above \$40 per cwt for much of the projection period. Despite a relatively stable breeding inventory, production approaches 21 billion pounds by 2009 based on gains in productivity.

The projections for broilers and dairy are characterized by a continuation of recent trends. Broiler production is expected to grow at an annual rate of 3 percent, with the additional production finding an outlet in both the domestic and export markets. Milk production is also projected to continue its growth, as the increase in productivity more than offsets a declining herd size.

Summary of Aggregate Measures

The emergency spending packages of 1998 and 1999, together with increased loan deficiency payments (LDPs), have pushed government outlays significantly higher. For fiscal year 2000, outlays approach \$24 billion.

Longer term, outlays decline to approximately \$7 billion as Agricultural Market Transition Act (AMTA) payments decline and stronger prices limit LDP exposure.

When looking at the sector as a whole, U.S. net farm income in 1998 and 1999 has held up reasonably well, despite the low prices. To a large extent, this is due to the increased government payments resulting from the assistance packages. Assuming no additional assistance packages and the declining payments under the FAIR Act, significant pressure on farm income is projected for 2000. In fact, little recovery in aggregate farm income is expected before 2007, as rising output prices are generally offset by increased production expenses.

The growth in real food expenditures should remain modest over the baseline, with an annual growth of 1.5 percent for the 2000-09 period. This compares to an annual rate of 2 percent between 1990 and 1999.

Concerns and Uncertainties

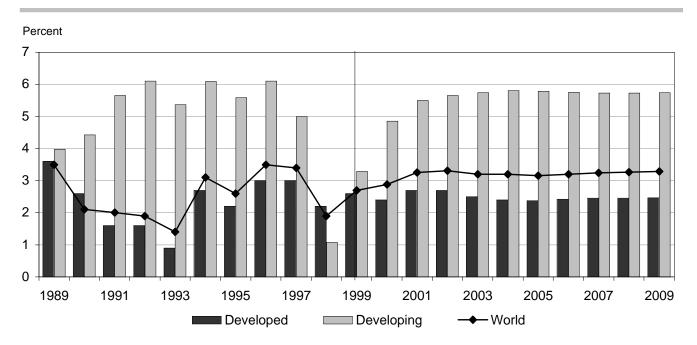
As with any projections, there are always a number of concerns and uncertainties surrounding the projections. In fact, the only certainty is that just about everything is uncertain. As mentioned earlier, a baseline is just one plausible scenario that is dependent on the underlying assumptions. Changing any of those assumptions regarding the economy, policy, or technology will alter the results. In addition to these unknowns, projections regarding the agricultural sector must be concerned with a number of other issues.

What impacts will recent and future developments in genetically modified organisms (GMOs) have on the sector? Are there long-run impacts on the supply and demand for crops? As the production of crops with specialized traits continues to grow, it may no longer be relevant to just look at a corn supply and use table, but instead projections for different types of corn. The degree that this becomes necessary in the next 10 years may ultimately depend on the consumer.

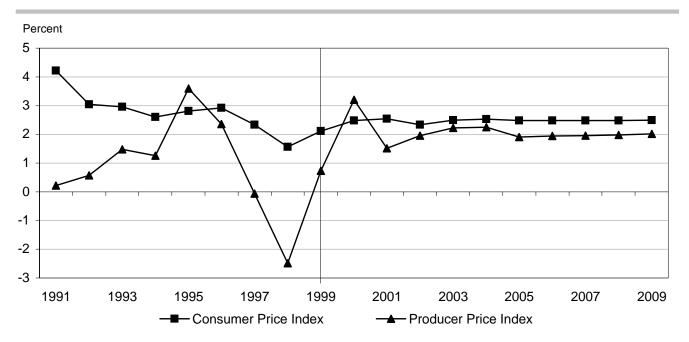
A long-run view of agriculture must also come to grips with the implications of structural change and consolidation. To what extent these changes impact some of the basic relationships that have held in the past remains unknown.

BASELINE ASSUMPTIONS AND PRICE PROJECTIONS

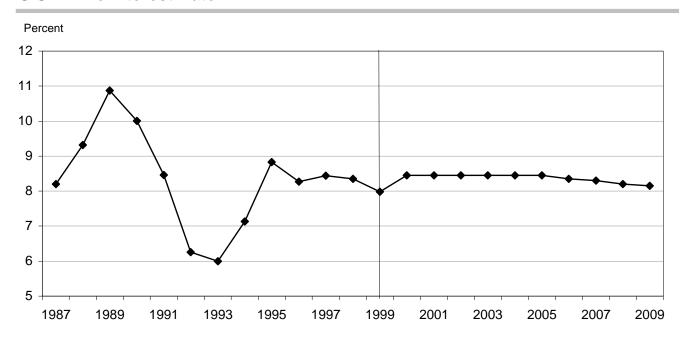
Real GDP Growth Rates



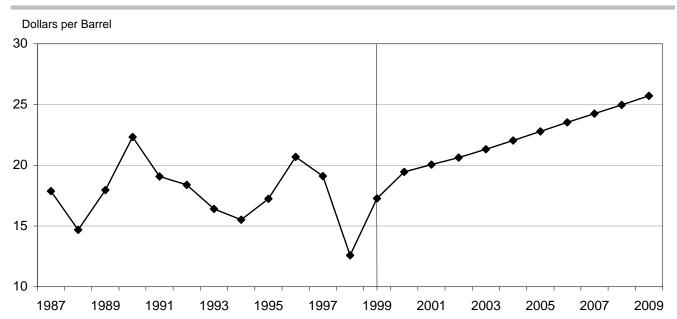
Measures of U.S. Inflation



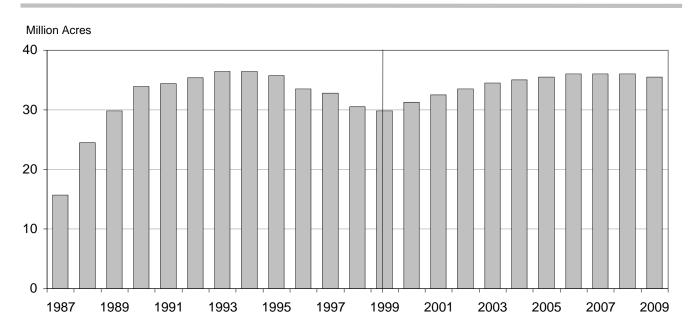
U.S. Prime Interest Rate



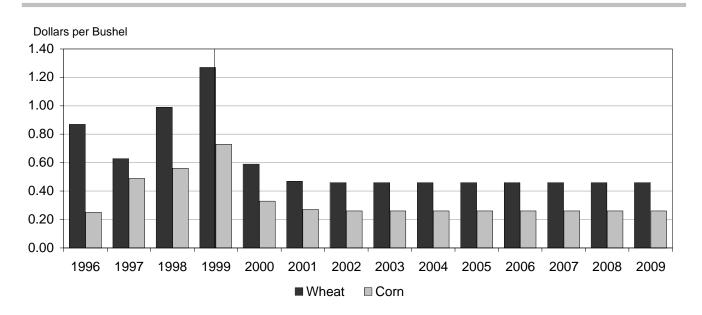
Crude Oil, Average Refiner's Acquisition Costs



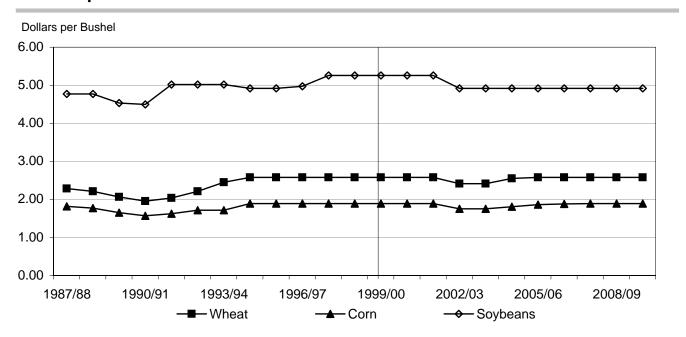
Conservation Reserve Program



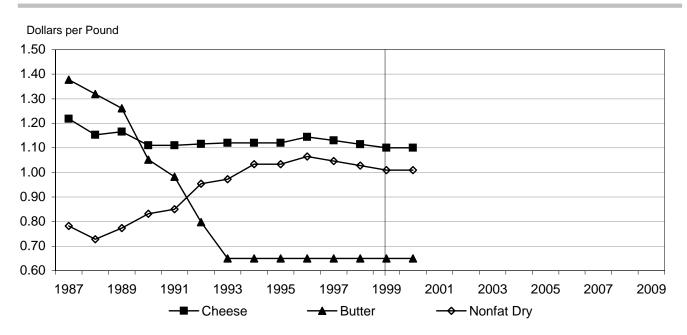
AMTA and Market Loss Assistance Payments, Includes 1998 and 1999 Spending Package



U.S. Crop Loan Rates



CCC Purchase Prices for Dairy Products



Macroeconomic Assumptions

- World economic growth is projected to recover and grow at 2.9 percent in 2000 with the economic recovery of Asia and Latin America. The long-run macroeconomic outlook calls for sustained and distributed global economic growth, with world GDP growing more than 3 percent annually.
- Japan is projected to have 1.4 percent real GDP growth in 2000. The United States is expected to grow at an average of 3 percent in the coming decade, with a progressive slowdown toward the end of the decade. The Euro is expected to appreciate in 2000-01, after its 1999 losses relative to the U.S. dollar.
- Former Soviet Union (FSU) countries are recovering and expected to grow by 2.2 percent or more in the coming years. In Russia, growth is expected to be modest and inflation to remain above 25 percent in the next two years.
- Most Asian countries, except Indonesia, exhibit strong growth this year and are expected to grow between 4 and 6 percent annually in the coming decade. Indonesia is expected to have a turnaround this year and have positive growth in excess of 3 percent for the remaining of the decade. Chinese economic growth has resumed its annual growth rate of 7 percent. China is expected to devalue its currency by 10 percent in 2000.
- The Latin American region faces an optimistic economic outlook. Brazil is expected to grow by 2.8 percent in 2000 and to have a modest 5 percent devaluation of its currency. Similar outlooks are projected for most major countries in the region, but with significant devaluations for Columbia, Mexico, Paraguay, and Venezuela. Latin American economies are projected to grow between 2.6 and 5.4 percent annually in the next decade.
- African and Middle Eastern countries included in the FAPRI baseline are expected to grow at healthy rates, with modest price inflation and currency devaluation.
- Population growth rates continue to fall throughout the world. World population growth will slow down from 1.3 percent in 1999 to 1.1 in 2009.

Domestic and International Economic Projections

| | | | | • | | | | | | | |
|--|------------|------------|------------|------------|------------|------------------|--------------|------------|------------|------------|------------|
| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| United States | | | | | (5) | . 0 | , | | | | |
| Real GDP * | 3.9 | 3.1 | 3.4 | 3.3 | (Perce | ntage Cha 3.0 | ange) 3.1 | 2.9 | 2.8 | 2.6 | 2.6 |
| Real Cons. Expenditure * | 5.2 | 3.6 | 2.9 | 2.8 | 2.4 | 2.4 | 2.4 | 2.5 | 2.4 | 2.4 | 2.4 |
| CPI, All Urban Consumers * | 2.1 | 2.5 | 2.5 | 2.3 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| PPI, All Commodities * | | | | | 2.2 | | | | | | 2.0 |
| | 0.7 | 3.2 | 1.5 | 2.0 | | 2.3 | 1.9 | 1.9 | 2.0 | 2.0 | |
| Unemployment Rate | 4.2 | 4.4 | 4.3 | 4.6 | 4.6 | 4.7 | 4.7 | 4.7 | 4.6 | 4.6 | 4.6 |
| 3-Month Treasury Bill Rate | 4.6 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.1 | 4.9 | 4.6 | 4.4 |
| Moody's AAA Corp. Rate | 7.0 | 7.2 | 7.1 | 7.0 | 6.9 | 6.8 | 6.8 | 6.6 | 6.5 | 6.4 | 6.4 |
| Avg. Hourly Earnings Food and Kindred Products * | 2.7 | 3.3 | 3.0 | 2.6 | 2.5 | 2.8 | 2.7 | 2.8 | 2.8 | 2.8 | 2.9 |
| Federal Budget Deficit | | | | | (Billio | n U.S. Doll | lars) | | | | |
| Unified Budget Basis | -172.5 | -165.0 | -175.8 | -173.5 | -161.0 | -154.2 | -171.0 | -164.8 | -153.3 | -159.5 | -163.6 |
| Current Account Deficit | 314.8 | 386.6 | 385.6 | 367.7 | 346.0 | 320.7 | 290.4 | 263.4 | 238.9 | 218.6 | 204.9 |
| | | | | | (U.S. Do | ollars per E | Barrel) | | | | |
| Refiners Cost of Oil | 17.3 | 19.5 | 20.0 | 20.6 | 21.3 | 22.0 | 22.8 | 23.5 | 24.3 | 25.0 | 25.7 |
| International | | | | | | | | | | | |
| Real GDP * | | | | | | ntage Cha | • , | | | | |
| Argentina | -4.4 | 2.3 | 5.6 | 5.4 | 5.1 | 5.0 | 4.9 | 4.8 | 4.7 | 4.7 | 4.7 |
| Brazil | -0.4 | 2.8 | 3.6 | 3.8 | 3.7 | 3.7 | 3.6 | 3.5 | 3.4 | 3.4 | 3.4 |
| Canada | 3.5 | 2.6 | 2.8 | 2.7 | 2.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| Australia | 3.8 | 3.4 | 3.5 | 3.6 | 3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| Thailand | 3.8 | 4.2 | 4.4 | 5.5 2.4 | 5.8 | 5.7 1.7 | 5.5 | 5.4 1.7 | 5.3 1.7 | 5.3 | 5.3 1.7 |
| Japan European Union | 1.3 2.0 | 1.4 2.8 | 2.3 2.6 | 2.4 2.5 | 1.8 2.5 | 1.7 2.5 | 1.7 2.5 | 2.5 | 2.5 | 1.7 2.5 | 2.5 |
| European Union South Korea | 7.5 | 2.0 5.9 | 2.6 5.7 | 2.5 5.6 | 2.5 5.5 | 2.5 5.5 | 2.5 5.4 | 2.5 5.3 | 5.2 | 2.5 5.2 | 2.5 5.2 |
| Taiwan | 7.5 5.5 | 6.1 | 6.5 | 6.5 | 6.5 | 6.6 | 6.4 | 6.2 | 6.1 | 6.1 | 6.1 |
| Local Currency per U.S. Dollar * | | | | | | | | | | | |
| Argentina | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Brazil | 59.0 | 5.7 | 1.7 | 1.3 | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Canada | 0.3 | -2.4 | -1.8 | -1.1 | -0.4 | -0.2 | -0.2 | -0.2 | -0.2 | -0.2 | -0.2 |
| Australia | -3.1 | -6.5 | -5.6 | -0.7 | -0.7 | -0.5 | -0.3 | -0.2 | -0.2 | -0.2 | -0.2 |
| Thailand | -10.9 | 1.1 | 2.7 | 3.8 | 4.0 | 3.9 | 3.8 | 3.7 | 3.7 | 3.7 | 3.7 |
| Japan | -10.8 | -1.9 | -3.2 | -1.7 | -1.2 | -1.6 | -1.3 | -1.1 | -0.9 | -0.9 | -0.9 |
| European Union | 5.3 | -6.7 | -3.2 | -0.3 | -0.2 | -0.2 | -0.2 | -0.2 | -0.2 | -0.2 | -0.2 |
| South Korea | -15.3 | -3.0 | -2.3 | -1.0 | 0.3 | 1.1 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 |
| Taiwan | -2.7 | -8.5 | -9.5 | -3.7 | -0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

^{*} Percentage change from preceding year.

Source: The WEFA Group, Fourth Quarter 1999, and Project Link, November 1999.

Projections after 2004 are FAPRI estimates.

U.S. and World Policy Assumptions

- The FAPRI baseline includes provisions of the 1996 U.S. FAIR Act. Land set-aside provisions, except those directed at conservation, are eliminated. Deficiency payments are replaced with declining contract payments, and planting flexibility is increased with the removal of base program areas.
- The FAIR Act also reduced Export Enhancement Program (EEP) expenditures below the General Agreement on Tariffs and Trade (GATT) allowed levels through 2000. The EEP has not been used since July 1995. The baseline assumes that EEP expenditures will not be resumed during the baseline period.
- U.S. loan rates are assumed constant for the 2000 and 2001 crops. After 2001, they are allowed to fall using the FAIR Act's formulas.
- The baseline also incorporates the provisions of the 1999 U.S. emergency spending package, but assumes that no new emergency measures will occur in the future beyond 2000.
- The 1999 Berlin Accord on the Agenda 2000 reforms of the EU's Common Agricultural Policy (CAP) brings substantial policy changes in grains, oilseeds, and livestock. Policy changes affecting dairy are more superficial.
- The EU cereal intervention price is reduced by 15 percent in two equal steps, with the first reduction occurring during the 2000/01 marketing year. Cereal producers will be partially compensated for the price support reduction as compensation payments increase from 54.3 to 63 Euro per metric ton. The base rate for compulsory setaside is 10 percent through the 2009/10 marketing year.
- Direct payments to EU oilseed producers will be progressively reduced to the level for cereals by the 2002/03 marketing year. Protein crops will receive a direct payment of 9.5 Euro per metric ton in addition to the basic direct payment.
- The EU beef intervention price is reduced by 20 percent over a three-year period. In July 2002, the intervention price will be replaced by a beef basic price of 2,224 Euro per metric ton, and a private storage aid scheme will be introduced. Lower beef prices will partly offset by a phased increase in the special premiums for steers, bulls, and suckler cows (300, 210, and 200 Euro per head, respectively). Slaughter premiums of 80 Euro per adult animal and 50 Euro per calf are introduced. Producer premiums face some regional caps, which can be supplemented nationally up to a limit established for each country.
- The current EU milk quota system is retained under Agenda 2000. In 2000 and 2001, quotas for Greece, Spain, Ireland, Italy, and Northern Ireland are increased. Quotas for all countries are increased by 1.5 percent over a three-year period beginning in 2005. Butter and nonfat dry milk (NFD) intervention prices are reduced by 15 percent in three equal steps beginning in 2005. Price reductions will be offset by the introduction of a payment of 17.2 Euro per metric ton of milk under quota.
- The Uruguay Round (UR) of the WTO continues to have a large impact on agricultural trade, especially through disciplinary actions placed on export subsidies and market access. The greatest impacts occur in markets for wheat, coarse grains, meats, and dairy products. Industrialized members of the WTO implement the last Uruguay Round Agreement on Agriculture (URAA) concessions in 2000, while developing members conclude implementation in 2004. After 2004, all WTO assumptions are held constant until 2009/10.

U.S. Program Provisions

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 | |
|----------------------|-------|----------------------------------|-------|-------|-------------|-------------|-----------|-------|-------|-------|-------|--|
| Contract Payments | | | | | (U.S. Do | llars per B | sushel) | | | | | |
| Corn | 0.73 | 0.33 | 0.27 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | |
| Sorghum | 0.87 | 0.40 | 0.32 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | |
| Barley | 0.54 | 0.25 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | |
| Oats | 0.06 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | |
| Wheat | 1.27 | 0.59 | 0.47 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | |
| | | | | (U | S. Dollars | per Hund | redweight | :) | | | | |
| Rice | 5.68 | 2.60 | 2.10 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | |
| | | | | | (U.S. Do | llars per F | ound) | | | | | |
| Cotton | 0.157 | 0.071 | 0.057 | 0.056 | 0.056 | 0.056 | 0.056 | 0.056 | 0.056 | 0.056 | 0.056 | |
| Loan Rates | | | | | (U.S. Do | llars per B | sushel) | | | | | |
| Corn | 1.89 | 1.89 | 1.89 | 1.75 | 1.75 | 1.81 | 1.86 | 1.88 | 1.89 | 1.89 | 1.89 | |
| Sorghum | 1.74 | 1.74 | 1.74 | 1.61 | 1.61 | 1.67 | 1.71 | 1.73 | 1.74 | 1.74 | 1.74 | |
| Barley | 1.59 | 1.59 | 1.59 | 1.47 | 1.47 | 1.52 | 1.56 | 1.58 | 1.59 | 1.59 | 1.59 | |
| Oats | 1.13 | 1.13 | 1.13 | 1.05 | 1.04 | 1.08 | 1.11 | 1.13 | 1.13 | 1.13 | 1.13 | |
| Soybeans | 5.26 | 5.26 | 5.26 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | |
| Wheat | 2.58 | 2.58 | 2.58 | 2.41 | 2.41 | 2.55 | 2.58 | 2.58 | 2.58 | 2.58 | 2.58 | |
| | | (U.S. Dollars per Hundredweight) | | | | | | | | | | |
| Rice | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | |
| | | | | | (U.S. Do | llars per F | ound) | | | | | |
| Cotton | 0.519 | 0.519 | 0.519 | 0.500 | 0.500 | 0.500 | 0.500 | 0.511 | 0.519 | 0.519 | 0.519 | |
| Peanuts | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | |
| | | | | | (U.S. Ce | ents per P | ound) | | | | | |
| Sugarcane | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | |
| | | | | | (Mi | llion Acres | ;) | | | | | |
| Conservation Reserve | 29.8 | 31.3 | 32.5 | 33.5 | 34.5 | 35.0 | 35.5 | 36.0 | 36.0 | 36.0 | 35.5 | |
| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | |
| | - | | | (U | .S. Dollars | per Hund | redweight | :) | | | | |
| Milk Support Price | 9.90 | 9.90 | NA | NA | NA | NA | NA | NA | NA | NA | NA | |

Agricultural Policy Assumptions for Crops

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|---|-------------------|------------------|------------------|------------------|------------------|-------------------|--------------|------------------|------------------|------------------|------------------|
| European Union | | | | | | | | | | | |
| Policy Prices | | | | | • | per Metric | , | | | | |
| Cereal Intervention | 119.2 | 110.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 | 101.3 |
| Rice Intervention Oilseed Reference Price | 316 196 | 298 196 | 298 196 | 298 196 | 298 196 | 298 196 | 298 196 | 298 196 | 298 196 | 298 196 | 298 196 |
| White Sugar Intervention | 632 | 632 | 632 | 632 | 632 | 632 | 632 | 632 | 632 | 632 | 632 |
| Raw Sugar Intervention | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 |
| A Beet Minimum | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| B Beet Minimum | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| Cereals Compensatory Payment | 54.3 | 58.7 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 |
| Set-aside Payments | 68.8 | 58.7 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 |
| Subsidized Export Limits | | | | | (Millio | n Metric T | ons) | | | | |
| Wheat | 18.0 | 16.8 | 15.6 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 |
| Coarse Grains | 12.6 | 12.0 | 11.4 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| Production Aid | | o | -0. 4 | | • | per Hect | • | | | | |
| Oilseeds | 91.4 | 81.7 | 72.4 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 |
| Oilseed Base Area | 5,482 | 5,482 | 5,482 | | (Thou | sand Hect | ares) | | | | |
| | 0,402 | 0,402 | 0,402 | | | (Paraant) | | | | | |
| Set-aside Rate * Crops | 10 | 10 | 10 | 10 | 10 | (Percent) 10 | 10 | 10 | 10 | 10 | 10 |
| Japan | | | | ,, | - | | | | | | |
| Policy Prices | 440.000 | 440.000 | 440.000 | | | • | Metric Ton | • | 4.40.000 | 4.40.000 | 4.40.000 |
| Wheat Basels (Domestic Braduction) | 148,300 38,467 | , | 148,300 | , | | | 38,467 | | 148,300 | , | 148,300 |
| Wheat Resale (Domestic Production) Rice Purchase | 15,528 | 38,467 15,528 | 38,467 15,528 | 38,467 15,528 | 38,467 15,528 | 38,467 15,528 | 15,528 | 38,467 15,528 | 38,467 15,528 | 38,467 15,528 | 38,467 15,528 |
| Rice Resale (Domestic Production) | 17,446 | 17,446 | 17,446 | 17,446 | 17,446 | 17,446 | 17,446 | 17,446 | 17,446 | 17,446 | 17,446 |
| D. T. W | | | | | (- 1 | | _ 、 | | | | |
| Rice Tarification | 044 | 000 | 000 | 000 | • | and Metri | , | 000 | 000 | 000 | 000 |
| Miminmum import access commitments Out of quota Tariffs | 644 351.2 | 682 341.0 | 682 341.0 | 682 341.0 | 682 341.0 | 682 341.0 | 682 341.0 | 682 341.0 | 682 341.0 | 682 341.0 | 682 341.0 |
| · | 331.2 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 |
| South Korea Minimum Import Access Commitment | | | | | | | | | | | |
| Rice | 103 | 103 | 128 | 154 | 180 | 205 | 205 | 205 | 205 | 205 | 205 |
| Corn | 6,100 | 6,100 | 6,100 | 6,100 | 6,100 | 6,100 | 6,100 | 6,100 | 6,100 | 6,100 | 6,100 |
| United States | | | | | | | | | | | |
| Policy Prices | | | | | (U.S. Doll | ars per Mo | etric Ton) | | | | |
| Corn Loan | 74 | 74 | 74 | 69 | 69 | 71 | 73 | 74 | 74 | 74 | 74 |
| Wheat Loan | 95 | 95 | 95 | 89 | 89 | 94 | 95 | 95 | 95 | 95 | 95 |
| Barley Loan | 73 | 73 | 73 | 68 | 68 | 70 | 72 | 73 | 73 | 73 | 73 |
| Rice Loan | 143 | 143 | 143 | 143 | 143 | 143 | 143 | 143 | 143 | 143 | 143 |
| Cotton Loan | 1,144 193 | 1,144 193 | 1,144 | 1,102 181 | 1,102 | 1,102 | 1,102 181 | 1,127 181 | 1,144 181 | 1,144 181 | 1,144 181 |
| Soybean Loan Cane Loan | 397 | 397 | 193 397 | 397 | 181 397 | 181 397 | 397 | 397 | 397 | 397 | 397 |
| Export Enhancement Program | 23. | | | | | | Fiscal Yea | | | | |
| Program Expenditure | 0 | 0 | 0 | 0 | 0.5 | . Dollars, i 0 | 0 | 0 | 0 | 0 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Barley | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | • | ion Hecta | • | | | | |
| Conservation Reserve Program | 12.1 | 12.7 | 13.2 | 13.6 | 14.0 | 14.2 | 14.4 | 14.6 | 14.6 | 14.6 | 14.4 |

^{*} Average set-aside prior to exemption for small producers.

Agricultural Policy Assumptions for Livestock

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------------------------|-------|-------|-------|-------|----------|------------------------|-----------|-------|-------|-------|-------|
| European Union | | | | | | | | | | | |
| Policy Prices | | | | | (Euro p | er Metric | Ton) | | | | |
| Beef Intervention | 3,475 | 3,242 | 3,013 | 2,780 | 2,780 | 2,780 | 2,780 | 2,780 | 2,780 | 2,780 | 2,780 |
| Pork Basic | 1,510 | 1,510 | 1,510 | 1,510 | 1,510 | 1,510 | 1,510 | 1,510 | 1,510 | 1,510 | 1,510 |
| Intervention Purchase Limits | | | | | (Thousa | nd Metric | Tons) | | | | |
| Beef | 350 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GATT Maximum | | | | | | | | | | | |
| Subsidized Exports | | | | | | | | | | | |
| Beef | 885 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 | 822 |
| Pork | 463 | 444 | 444 | 444 | 444 | 444 | 444 | 444 | 444 | 444 | 444 |
| Poultry | 316 | 286 | 286 | 286 | 286 | 286 | 286 | 286 | 286 | 286 | 286 |
| | | | | | (Millior | n Metric To | ons) | | | | |
| Milk Delivery Quota: E-15 | 117 | 118 | 119 | 119 | 119 | 119 | 119 | 120 | 120 | 120 | 120 |
| | | | | | (Euro p | er Metric | Ton) | | | | |
| Target Price for Milk | 310 | 310 | 310 | 310 | 310 | 310 | 301 | 284 | 266 | 257 | 257 |
| Intervention Price for Butter | 3,282 | 3,282 | 3,282 | 3,282 | 3,282 | 3,282 | 3,200 | 3,036 | 2,872 | 2,790 | 2,790 |
| Intervention Price for SMP | 2,055 | 2,055 | 2,055 | 2,055 | 2,055 | 2,055 | 2,004 | 1,901 | 1,798 | 1,747 | 1,747 |
| SMP Feed Subsidy | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| GATT Maximum | | | | | | | | | | | |
| Subsidized Exports | | | | | (Thousa | nd Metric | Tons) | | | | |
| Butter | 426 | 408 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 |
| SMP | 292 | 279 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 |
| Cheese | 353 | 332 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 |
| Other Milk Products | 1,026 | 981 | 958 | 958 | 958 | 958 | 958 | 958 | 958 | 958 | 958 |
| Canada | | | | | (Canadia | n Cents pe | er Liter) | | | | |
| Target Price for Industrial Milk | 56 | 57 | 58 | 58 | 59 | 60 | 60 | 61 | 62 | 62 | 63 |
| | | | | | (Canadia | n Dollars _l | oer Kg) | | | | |
| Support Price, Butter | 5.47 | 5.52 | 5.58 | 5.63 | 5.69 | 5.75 | 5.80 | 5.86 | 5.92 | 5.98 | 6.04 |
| Support Price, NFD | 4.52 | 4.57 | 4.62 | 4.66 | 4.71 | 4.76 | 4.80 | 4.85 | 4.90 | 4.95 | 5.00 |

Policy Prices and World Prices by Commodity

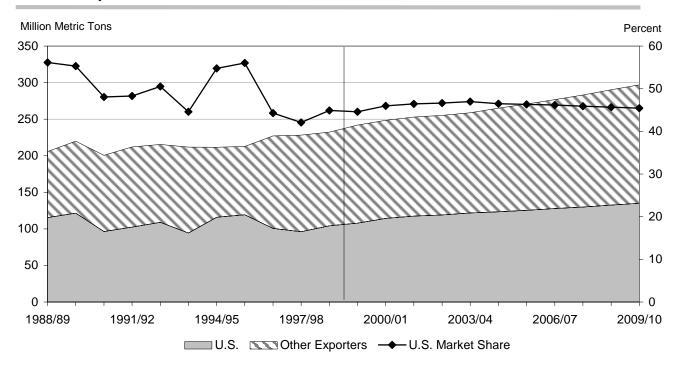
| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|----------------------------|-------|-------|-------|----------|-------------|-------------|------------|---------|-------|-------|-------|
| Wheat | | | | (U.S. Do | llars per N | /letric Ton | , Marketin | g Year) | | | |
| EU Intervention | 132 | 127 | 118 | 118 | 119 | 119 | 119 | 119 | 120 | 120 | 120 |
| FOB U.S. Gulf | 116 | 127 | 138 | 141 | 146 | 146 | 150 | 153 | 156 | 158 | 161 |
| Canadian Thunder Bay | 107 | 119 | 131 | 135 | 141 | 141 | 145 | 148 | 151 | 154 | 157 |
| Australian Wheat Board | 88 | 97 | 108 | 110 | 115 | 115 | 119 | 122 | 124 | 127 | 163 |
| Barley | | | | | | | | | | | |
| EU Intervention | 132 | 127 | 118 | 118 | 119 | 119 | 119 | 119 | 120 | 120 | 120 |
| FOB U.S. Pacific Northwest | 108 | 121 | 123 | 124 | 127 | 128 | 132 | 134 | 137 | 140 | 144 |
| Corn | | | | | | | | | | | |
| EU Intervention | 132 | 127 | 118 | 118 | 119 | 119 | 119 | 119 | 120 | 120 | 120 |
| FOB U.S. Gulf | 88 | 97 | 101 | 101 | 104 | 105 | 107 | 109 | 111 | 112 | 115 |
| Rice | | | | | | | | | | | |
| FOB Bangkok 5% Parboiled | 240 | 248 | 259 | 269 | 277 | 283 | 291 | 297 | 304 | 309 | 315 |
| Soybeans | | | | | | | | | | | |
| U.S. Loan Rate | 193 | 193 | 193 | 181 | 181 | 181 | 181 | 181 | 181 | 181 | 181 |
| FOB U.S. Gulf | 192 | 171 | 181 | 198 | 200 | 207 | 208 | 215 | 218 | 224 | 228 |
| Rapeseed | | | | | | | | | | | |
| EU Oilseeds Reference | 238 | 316 | 303 | 323 | 332 | 330 | 334 | 442 | 443 | 409 | 410 |
| Cash Vancouver | 205 | 181 | 194 | 208 | 211 | 213 | 222 | 223 | 232 | 235 | 245 |
| Cotton | | | | | | | | | | | |
| Cotlook A Index | 1,044 | 1,093 | 1,154 | 1,216 | 1,269 | 1,320 | 1,361 | 1,398 | 1,438 | 1,486 | 1,540 |

Policy Prices and World Prices by Commodity (continued)

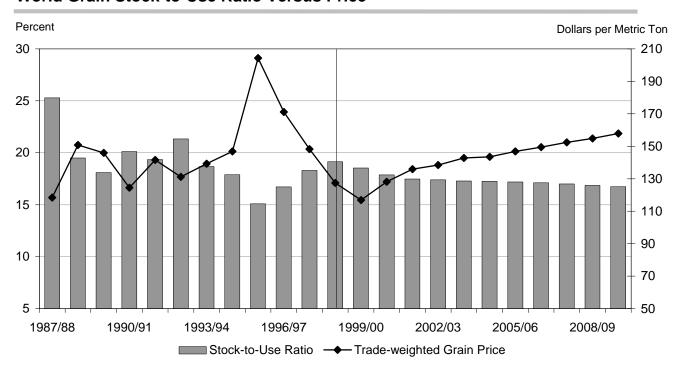
| • | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|------------------------------|----------------|--------------|--------|--------|------------------|---------------------|---------------------|--------|--------|----------------|--------|
| | 1000 | 2000 | 2001 | | | | | | 2007 | | 2003 |
| Beef EU Intervention | 3,708 | 3,708 | 3,560 | 3,294 | (U.S. Doll 3,301 | ars per Me 3,308 | etric Ton) 3,314 | 3,321 | 3,328 | 3,334 | 3,341 |
| Japanese Wholesale | 3,700 | 3,700 | 3,300 | 3,294 | 3,301 | 3,300 | 3,314 | 3,321 | 3,320 | 3,334 | 3,341 |
| Dairy beef | 6,795 | 7,047 | 7,459 | 7,707 | 7,836 | 7,915 | 7,934 | 8,042 | 8,143 | 8,276 | 8,441 |
| Wagyu beef | 16,212 | 16,551 | 17,539 | 17,948 | 17,920 | 17,766 | 17,484 | 17,430 | 17,410 | 17,505 | 17,697 |
| Nebraska Direct | 10,212 | 10,001 | 17,000 | 17,540 | 17,520 | 17,700 | 17,404 | 17,400 | 17,410 | 17,000 | 17,007 |
| Fed Steer Price | 1,445 | 1,544 | 1,625 | 1,666 | 1,679 | 1,644 | 1,577 | 1,518 | 1,481 | 1,492 | 1,526 |
| U.S. Retail | 6,349 | 6,592 | 6,812 | 6,967 | 6,989 | 6,945 | 6,856 | 6,834 | 6,790 | 6,856 | 6,967 |
| Pork | -, | -, | -, | -, | -, | -,- :- | -, | -, | -, | -, | -, |
| EU Basic | 1 611 | 1,727 | 1,784 | 1,789 | 1.793 | 1 707 | 1,800 | 1.804 | 1.807 | 1 011 | 1,815 |
| Japanese Wholesale | 1,611 3,771 | 3,972 | 4,239 | 4,361 | 4,413 | 1,797 4,430 | 4,417 | 4,654 | 4,815 | 1,811 4,803 | 4,798 |
| U.S. Barrows, Gilts | 750 | 3,972 842 | 934 | 960 | 943 | 4,430 895 | 855 | 931 | 1,001 | 4,803 951 | 884 |
| U.S. Retail | 5,313 | 5,490 | 5,666 | 5,732 | 5,688 | 5,644 | 5,556 | 5,710 | 5,886 | 5,754 | 5,666 |
| | 3,313 | 3,430 | 3,000 | 3,732 | 3,000 | 3,044 | 3,330 | 3,710 | 3,000 | 3,734 | 3,000 |
| Broilers | | | | | | | | | | | |
| EU Producer | 1,137 | 1,231 | 1,240 | 1,250 | 1,282 | 1,308 | 1,334 | 1,358 | 1,385 | 1,412 | 1,440 |
| Japanese Wholesale | 2,105 | 2,141 | 2,244 | 2,319 | 2,368 | 2,411 | 2,448 | 2,499 | 2,549 | 2,599 | 2,652 |
| U.S. 12-City Wholesale | 1,281 | 1,260 | 1,265 | 1,256 | 1,243 | 1,233 | 1,227 | 1,229 | 1,231 | 1,230 | 1,230 |
| U.S. Retail | 3,404 | 3,375 | 3,392 | 3,391 | 3,382 | 3,373 | 3,344 | 3,349 | 3,349 | 3,332 | 3,320 |
| Butter | | | | | | | | | | | |
| EU Intervention | 3,496 | 3,747 | 3,871 | 3,882 | 3,890 | 3,898 | 3,808 | 3,620 | 3,431 | 3,340 | 3,347 |
| U.S. CCC Purchase | 1,433 | 1,453 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Wholesale | 2,770 | 2,400 | 2,502 | 2,457 | 2,523 | 2,543 | 2,534 | 2,612 | 2,607 | 2,613 | 2,591 |
| FOB Northern Europe | 1,435 | 1,421 | 1,534 | 1,535 | 1,545 | 1,558 | 1,570 | 1,550 | 1,545 | 1,550 | 1,561 |
| Canadian Support | 3,674 | 3,802 | 3,910 | 3,993 | 4,050 | 4,098 | 4,148 | 4,197 | 4,248 | 4,299 | 4,351 |
| Canadian Retail | 4,360 | 4,534 | 4,686 | 4,809 | 4,899 | 4,980 | 5,062 | 5,145 | 5,229 | 5,313 | 5,398 |
| Australian Export | 1,225 | 1,211 | 1,323 | 1,325 | 1,334 | 1,347 | 1,360 | 1,340 | 1,335 | 1,340 | 1,351 |
| Nonfat Dry Milk | | | | | | | | | | | |
| EU Intervention | 2,189 | 2,346 | 2,424 | 2,431 | 2,436 | 2,441 | 2,385 | 2,267 | 2,149 | 2,091 | 2,096 |
| U.S. CCC Purchase | 2,225 | 2,215 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Wholesale | 2,284 | 2,289 | 1,823 | 1,935 | 2,031 | 2,033 | 2,044 | 2,098 | 2,117 | 2,142 | 2,124 |
| FOB Northern Europe | 1,301 | 1,311 | 1,362 | 1,396 | 1,442 | 1,429 | 1,423 | 1,429 | 1,447 | 1,476 | 1,501 |
| Canadian Support | 3,041 | 3,147 | 3,237 | 3,305 | 3,352 | 3,392 | 3,433 | 3,474 | 3,516 | 3,558 | 3,601 |
| Canadian Retail | 6,518 | 6,736 | 6,919 | 7,056 | 7,145 | 7,222 | 7,299 | 7,377 | 7,456 | 7,535 | 7,616 |
| Australian Export | 1,406 | 1,416 | 1,467 | 1,501 | 1,546 | 1,534 | 1,528 | 1,533 | 1,552 | 1,580 | 1,606 |
| Cheese | | | | | | | | | | | |
| U.S. CCC Purchase | 2,426 | 2,426 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Wholesale | 3,128 | 2,775 | 2,832 | 2,853 | 2,873 | 2,880 | 2,900 | 2,909 | 2,924 | 2,936 | 2,958 |
| FOB Northern Europe | 1,909 | 2,075 | 2,164 | 2,172 | 2,193 | 2,185 | 2,172 | 2,151 | 2,160 | 2,179 | 2,196 |
| Canadian Retail | 8,781 | 9,326 | 9,619 | 9,816 | 9,935 | 10,036 | 10,156 | 10,275 | 10,395 | 10,517 | 10,639 |
| Australian Export | 2,136 | 2,301 | 2,390 | 2,398 | 2,419 | 2,411 | 2,398 | 2,378 | 2,386 | 2,405 | 2,422 |
| Milk | | | | | | | | | | | |
| EU Target | 330 | 354 | 365 | 366 | 367 | 368 | 358 | 338 | 318 | 308 | 309 |
| U.S. Support | 218 | 218 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U.S. Farm | 274 | 243 | 248 | 251 | 252 | 253 | 255 | 256 | 257 | 258 | 260 |
| | | | | | | | | | | | |
| Canadian Target, Industrial | 372 | 385 | 397 | 405 | 411 | 417 | 422 | 428 | 433 | 439 | 445 |
| Canadian Fluid Milk, Ontario | 402 | 416 | 428 | 436 | 442 | 447 | 452 | 458 | 463 | 468 | 473 |
| Australian Industrial Milk | 134 | 140 347 | 146 | 147 | 149 | 149 | 149 | 148 | 148 | 150 | 152 |
| Australian Fluid Milk | 335 | 347 | 359 | 362 | 366 | 366 | 366 | 365 | 366 | 369 | 372 |

WORLD TRADE

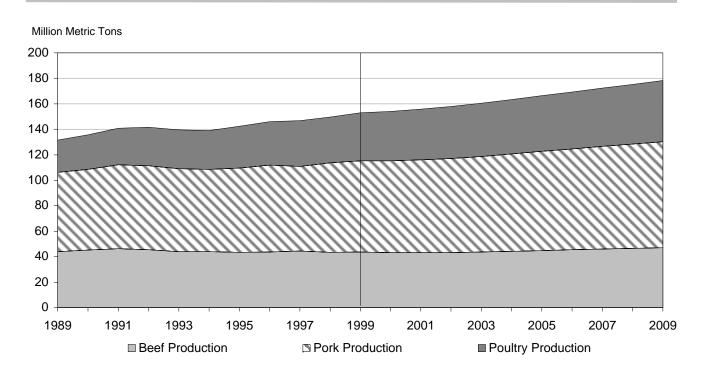
World Crop Trade and U.S. Market Share



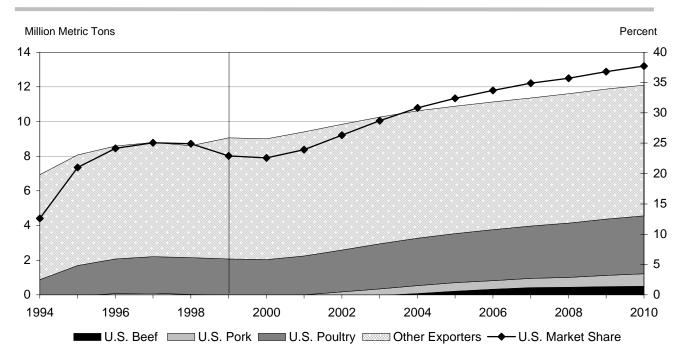
World Grain Stock-to-Use Ratio Versus Price



World Meat Production



World Meat Trade and U.S. Market Share



World Wheat Trade

- World wheat area, which has been declining since its record level in 1996/97, is estimated to decline further in 1999/00 because of lower prices. However, wheat area is projected to bounce back next year by more than 2 mha because of weak oilseeds and coarse grain prices. Over the long run, wheat area is expected to increase by another 2 mha but stay well below the 1996/97 level.
- World wheat production is projected to rise at an average rate of 1.2 percent annually, increasing by approximately 70 million metric tons (mmt). World use of wheat is projected to grow neck-and-neck with production, adding little or nothing to the stock. Developing countries account for most of the projected increase in use.
- With limited land to expand production, developing nations will be forced to depend on imported wheat to meet rising domestic consumption with world wheat trade increasing by more than 20 percent. Among developing regions, Asia is expected to be the fastest growing market in the long run, with imports increasing by more than 35 percent from 23 to 32 mmt.
- Within Asia, China, once a major importer, has more or less disappeared from the world market mainly because of higher production and relatively flat per capita consumption. Over the next decade, China is not expected to import any where close to the historical level; however, its imports increase to close to 4 mmt by the end of the projection period.
- Apart from China, India has been a wild-card player, importing wheat in bad years to compensate for domestic shortfalls. However, rising per capita consumption in non-traditional wheat consuming regions and import liberalization are likely to make India a consistent wheat buyer in the international markets. Indian wheat imports are projected to increase from 1.5 mmt in 1999/00 to 2.5 mmt in 2009/10.
- High-income East Asia, which includes South Korea, Hong Kong, Taiwan, and Singapore, has been a consistently growing market for the last decade. Income growth in these countries has made them increasingly dependent on imported wheat to meet the growing domestic consumption because of limited availability of land to expand production. Imports in this region are projected to increase by more than 20 percent in the next 10 years.
- Behind Asia, Latin America, Africa, and Middle Eastern regions are likely to grow 12 to 15 percent during the projection periods. The North African countries of Algeria, Morocco, and Tunisia will continue to depend on imported wheat for a large portion of their supplies. Imports in these countries are projected to increase by 20 percent.
- Within the Middle East, Iran has established itself as the largest importer of wheat in the world for the second time in the last four years. The return of normal weather next year is likely to decrease its imports by more than 1 mmt. In the long run, increased efficiency in marketing systems brought about due to trade liberalization will reduce the high percentage of wastage in the current systems. Iran is projected to increase its imports much more slowly in the next decade, with 2009/10 import levels reaching 7 mmt.
- Latin America is projected to expand its imports by more than 14 percent. Brazil and Mexico, accounting for more than 50 percent of region's imports, are likely to expand their imports by 9 percent and 35 percent, respectively, over the next decade. Brazilian wheat area is not likely to expand in the future because of the availability of cheap Argentine wheat through MERCOSUR, and because most growing domestic consumption will be met through imports from Argentina.
- Traditional exporters, such as Argentina, Australia, Canada, the EU, and the United States, will meet most of the increased import demand from developing countries. Argentina, Australia, and Canada primarily depend on the export market to dispose their surplus wheat because of a saturated domestic market. Although total wheat area

in these countries remains flat during the baseline period, production primarily rises through yield growth, expanding exports by more than 5 mmt.

- The lower wheat price is likely to constrain the EU subsidized exports at the GATT maximum level until 2003/04. Between 2004/05 and 2009/10, the EU expands its wheat exports from 13.3 to 22.7 mmt, as world price exceeds the EU domestic price, capturing the majority of the expanded market during this period.
- U.S. wheat production in 1999/00 decreases significantly compared to the last year, but higher-than-trend yield kept production above the 60 mmt level. However, production is projected to decline by 3 mmt next year, even with 2 mha higher area, as the projected yield comes back to trend level. Over the long run, an additional 1.6 mha comes into wheat production as prices recover. U.S. wheat exports are projected to increase steadily until 2003/04, reaching 30 mmt as compared to 27.8 mmt in 1999/00. But the export growth slows down significantly for the remainder of the projection period as the EU becomes eligible to export with subsidy.

Wheat Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|---------------------------|--------|--------|--------|--------|-------------|------------|------------|--------|--------|--------|--------|
| Net Exporters | | | | | (Millio | n Metric T | ons) | | | | |
| Argentina | 9.98 | 9.93 | 10.12 | 10.40 | 10.69 | 10.97 | 11.23 | 11.51 | 11.79 | 12.10 | 12.44 |
| Australia | 17.98 | 17.95 | 18.13 | 18.31 | 18.50 | 18.70 | 18.90 | 19.09 | 19.28 | 19.45 | 19.62 |
| Canada | 18.30 | 17.90 | 18.12 | 18.02 | 18.12 | 18.14 | 18.31 | 18.44 | 18.61 | 18.85 | 19.11 |
| Czech Republic | 0.03 | -0.01 | -0.15 | -0.15 | -0.14 | -0.15 | -0.16 | -0.17 | -0.18 | -0.19 | -0.21 |
| Hungary | 0.60 | 0.88 | 1.12 | 1.21 | 1.25 | 1.27 | 1.27 | 1.28 | 1.29 | 1.29 | 1.30 |
| European Union | 12.70 | 13.29 | 13.29 | 13.29 | 13.29 | 15.00 | 16.43 | 17.87 | 19.24 | 21.21 | 22.77 |
| Ukraine | 2.00 | 2.09 | 1.80 | 1.95 | 2.05 | 2.17 | 2.15 | 2.24 | 2.56 | 2.60 | 2.72 |
| United States | 26.38 | 27.83 | 28.57 | 28.92 | 29.79 | 29.72 | 30.06 | 30.33 | 30.59 | 30.86 | 31.14 |
| Total Net Exports | 87.96 | 89.88 | 91.15 | 92.10 | 93.69 | 95.97 | 98.36 | 100.75 | 103.36 | 106.38 | 109.10 |
| Net Importers | | | | | | | | | | | |
| Japan | 5.50 | 5.48 | 5.48 | 5.47 | 5.47 | 5.47 | 5.47 | 5.48 | 5.49 | 5.50 | 5.52 |
| Russia | 2.70 | 2.13 | 1.77 | 1.06 | 0.87 | 1.03 | 1.33 | 1.58 | 1.89 | 2.18 | 2.20 |
| Other Former Soviet Union | 0.68 | 0.88 | 1.43 | 1.78 | 1.96 | 2.01 | 2.10 | 2.20 | 2.27 | 2.35 | 2.46 |
| Other Western Europe | 0.43 | 0.39 | 0.38 | 0.39 | 0.39 | 0.41 | 0.42 | 0.43 | 0.45 | 0.46 | 0.47 |
| Other Eastern Europe | 0.50 | 0.75 | 0.63 | 0.70 | 0.81 | 1.01 | 1.18 | 1.36 | 1.54 | 1.70 | 1.87 |
| Poland | 0.20 | 0.57 | 0.70 | 0.81 | 0.90 | 0.97 | 1.03 | 1.07 | 1.10 | 1.11 | 1.12 |
| Developing | 76.45 | 78.14 | 79.10 | 80.24 | 81.65 | 83.42 | 85.16 | 86.94 | 88.93 | 91.37 | 93.75 |
| China | 0.20 | 0.97 | 1.33 | 1.53 | 2.31 | 2.53 | 2.88 | 3.20 | 3.46 | 3.75 | 3.99 |
| High-Income East Asia | 5.82 | 6.00 | 6.08 | 6.19 | 6.31 | 6.45 | 6.59 | 6.73 | 6.87 | 7.03 | 7.19 |
| India | 1.50 | 1.44 | 1.58 | 1.65 | 1.26 | 1.46 | 1.43 | 1.52 | 1.78 | 2.14 | 2.50 |
| Pakistan | 3.00 | 3.06 | 2.92 | 2.79 | 2.79 | 2.83 | 3.00 | 3.13 | 3.28 | 3.46 | 3.66 |
| Other Asia | 10.68 | 10.97 | 11.07 | 11.31 | 11.62 | 11.94 | 12.25 | 12.48 | 12.69 | 13.12 | 13.40 |
| Brazil | 7.00 | 7.14 | 7.18 | 7.21 | 7.24 | 7.29 | 7.35 | 7.41 | 7.49 | 7.56 | 7.64 |
| Mexico | 2.10 | 2.19 | 2.14 | 2.16 | 2.22 | 2.30 | 2.41 | 2.51 | 2.63 | 2.77 | 2.93 |
| Other Latin America | 8.37 | 8.69 | 8.64 | 8.69 | 8.81 | 8.98 | 9.17 | 9.36 | 9.58 | 9.81 | 10.09 |
| Algeria | 4.50 | 4.68 | 4.71 | 4.78 | 4.85 | 4.94 | 5.02 | 5.10 | 5.19 | 5.29 | 5.40 |
| Egypt | 6.70 | 7.07 | 7.06 | 7.06 | 7.06 | 7.07 | 7.08 | 7.09 | 7.11 | 7.13 | 7.15 |
| Iran | 6.50 | 5.65 | 5.70 | 5.80 | 5.92 | 6.06 | 6.19 | 6.33 | 6.47 | 6.62 | 6.76 |
| Morocco | 2.77 | 2.50 | 2.43 | 2.45 | 2.46 | 2.52 | 2.59 | 2.68 | 2.80 | 2.94 | 3.11 |
| Tunisia | 0.95 | 0.98 | 1.01 | 1.07 | 1.13 | 1.20 | 1.28 | 1.35 | 1.44 | 1.53 | 1.62 |
| Other Africa/Middle East | 15.95 | 16.35 | 16.76 | 17.03 | 17.11 | 17.24 | 17.28 | 17.35 | 17.42 | 17.46 | 17.50 |
| Rest of World | 0.42 | 0.45 | 0.48 | 0.52 | 0.56 | 0.60 | 0.65 | 0.69 | 0.73 | 0.77 | 0.82 |
| Residual | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 |
| Total Net Imports | 87.96 | 89.88 | 91.15 | 92.10 | 93.69 | 95.97 | 98.36 | 100.75 | 103.36 | 106.38 | 109.10 |
| Wheat Prices | | | | | (U.S. Dolla | | etric Ton) | | | | |
| U.S. FOB Gulf | 115.76 | 126.95 | 138.00 | 141.05 | 146.23 | 146.33 | 149.93 | 152.85 | 155.81 | 158.48 | 161.34 |
| Canadian Thunder Bay | 107.03 | 119.24 | 131.45 | 134.72 | 140.54 | 140.61 | 144.65 | 147.93 | 151.24 | 154.22 | 157.43 |
| Australian Wheat Board | 87.71 | 97.13 | 107.70 | 110.48 | 115.38 | 115.41 | 118.85 | 121.65 | 124.47 | 127.01 | 162.66 |
| CIF Rotterdam | 136.52 | 149.57 | 162.46 | 166.02 | 172.05 | 172.18 | 176.37 | 179.78 | 183.23 | 186.34 | 189.68 |

World Coarse Grain Trade

- World coarse grain area, which peaked in 1995/96 in response to higher price, continues its declining trend. Since 1995/96, more than 13 mha of coarse grain area has shifted to oilseeds and other profitable crops. In the next 10 years, coarse grain area increases slightly with increases in corn and barley area partially offset by a decline in sorghum area.
- World coarse grain production expands from 781 to 904 mmt, mostly through yield growth. Consumption is also expected to rise with the recovery of Asian economies, increasing coarse grain price by more than 25 percent.
- World coarse grain trade, which has been stagnant for last few years primarily because of the Asian financial crisis, is projected to expand steadily in the next decade with strong and stable income growth around the world, a more than 20 percent increase.
- Among coarse grain, corn trade tops the list by increasing by more than 25 percent over the projection period. Most of the growth in import demand is likely to come from developing countries. Asia remains the fastest growing market for corn, accounting for more than 50 percent of the total increase.
- Within Asia, Japan, South Korea, and Taiwan account for more than 90 percent of Asian corn imports. Japanese corn imports are projected to decline steadily in response to declining livestock production. Taiwan's corn imports have declined significantly since 1997 because of foot-and-mouth disease (FMD). Although Taiwan seems to have recovered from FMD, livestock production is projected to grow rather slowly because of environmental regulations. Corn imports are projected to increase by 1.1 mmt in the next decade.
- Recent economic turmoil has reduced the corn imports of Far East Asian countries, such as Thailand, Indonesia, Malaysia, the Philippines, and South Korea, by more than 40 percent. As these countries recover from the crisis, it is projected that corn imports will increase by more than 2 mmt in this region.
- China remains a wild-card player in the world corn market. China has proved everybody wrong by remaining a significant exporter of corn in last few years. However, Chinese corn area is projected to decline in next few years because of shifting Chinese policy favoring oilseeds over grains. Declining corn area and recovery in animal production is likely to make domestic consumption outpace production in the second half of the projection period, leaving the country in a net import position. By 2009/10, Chinese imports are projected to reach more than 7 mmt of corn.
- Unlike China, India is not likely to be a significant importer of corn in the next decade. However, rising poultry
 production and liberalization in corn imports are likely to force India to buy small amounts of corn from the
 world markets.
- Behind Asia, Latin American countries are likely to be the second largest growth market for corn in the next decade. Corn imports in the regions are projected to increase by more than 18 percent. Mexico is the largest importer of corn in the region and has been importing well above the TRQ level since its implementation under NAFTA. Growing feed use is likely to expand corn imports from 5.0 mmt in 1999/00 to 6.1 mmt in 2009/10. Other Latin American countries are also expected to increase their imports by around 2 mmt, mainly because of the inability of these countries to expand domestic production to meet growing domestic consumption.
- Argentine corn-planted area is projected to increase in next few years in response to weak oilseeds prices with exports expanding from 8.7 mmt in 1999/00 to 9.7 mmt in 2002/03. However, corn area stabilizes as oilseeds prices recover, with production growing mostly through yield growth. Steady production growth along with strong feed utilization limits its export growth for the remainder of the projection period. By 2009/10, Argentina is projected to export 10.4 mmt of corn.

- South Africa is back in the export market, exporting 1 mmt of corn mainly because of higher production resulting from large area and favorable weather. Assuming normal weather for the baseline period, corn exports are projected to increase from 1 mmt in 1999/00 to 1.7 mmt in 2009/10.
- Apart from Argentina and South Africa, most of the expanded market is likely to be captured by the United States. U.S. exports expand from 50 to 66 mmt, accounting for more than 70 percent of the increased import demand. The U.S. market share increases from 75 to 81 percent by 2009/10.
- Growth in barley import demand primarily comes from China and Saudi Arabia. In China, higher barley demand in the brewing industry increases imports from 2.3 to 3.8 mmt, whereas Saudi Arabia increases its barley imports from 4.7 to 6.2 mmt. The EU supplies most of the expanded barley market, whereas other major exporters, such as Australia and Canada, are limited because of lower barley production.
- In the sorghum market, import demand primarily comes from two countries, Japan and Mexico. Japanese demand is projected to decrease because of declining livestock production. Similarly, Mexican sorghum imports increase from 3.4 to 4.1 mmt during the projection period. On the export side, the United States and Argentina capture most of the expanded opportunity.

Corn Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|---------------------------|--------|--------|--------|--------|-------------|------------|------------|--------|--------|--------|--------|
| Net Exporters | | | | | (Millio | n Metric T | ons) | | | | |
| Argentina | 8.70 | 8.97 | 9.39 | 9.65 | 9.74 | 9.86 | 9.94 | 10.06 | 10.17 | 10.30 | 10.42 |
| Hungary | 1.50 | 1.66 | 1.62 | 1.65 | 1.65 | 1.65 | 1.66 | 1.66 | 1.66 | 1.65 | 1.64 |
| Other Eastern Europe | 0.46 | 0.39 | 0.73 | 0.68 | 0.84 | 0.80 | 0.86 | 0.81 | 0.76 | 0.66 | 0.59 |
| South Africa | 1.00 | 1.21 | 1.31 | 1.40 | 1.52 | 1.53 | 1.60 | 1.63 | 1.67 | 1.69 | 1.73 |
| Ukraine | 0.20 | 0.50 | 0.69 | 0.85 | 0.89 | 0.94 | 0.92 | 0.96 | 0.96 | 0.97 | 0.97 |
| United States | 50.32 | 51.46 | 52.14 | 53.99 | 56.44 | 57.95 | 59.53 | 61.15 | 62.81 | 64.75 | 66.51 |
| Total Net Exports | 66.68 | 67.29 | 67.77 | 68.48 | 70.15 | 72.74 | 74.51 | 76.28 | 78.03 | 80.02 | 81.85 |
| Net Importers | | | | | | | | | | | |
| Canada | 0.05 | 0.19 | 0.29 | 0.37 | 0.36 | 0.32 | 0.31 | 0.33 | 0.31 | 0.27 | 0.22 |
| European Union | 2.30 | 2.33 | 2.47 | 2.49 | 2.43 | 2.41 | 2.27 | 2.15 | 2.08 | 2.06 | 2.00 |
| Czech Republic | 0.08 | 0.08 | 0.12 | 0.13 | 0.13 | 0.14 | 0.15 | 0.15 | 0.16 | 0.17 | 0.17 |
| Poland | 0.40 | 0.00 | 0.12 | 0.13 | 0.13 | 0.14 | 0.13 | 0.15 | 0.10 | 0.61 | 0.64 |
| Israel | 0.65 | 0.71 | 0.72 | 0.72 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.74 | 0.74 |
| Japan | 16.25 | 15.96 | 15.68 | 15.55 | 15.37 | 15.24 | 15.10 | 14.91 | 14.77 | 14.70 | 14.61 |
| Russia | 0.50 | 0.68 | 0.63 | 0.63 | 0.60 | 0.62 | 0.61 | 0.58 | 0.59 | 0.60 | 0.63 |
| Other Former Soviet Union | 0.04 | 0.06 | -0.05 | -0.02 | -0.03 | -0.03 | -0.06 | -0.07 | -0.09 | -0.13 | -0.18 |
| Developing | 43.77 | 44.18 | 44.86 | 45.56 | 47.48 | 50.20 | 52.27 | 54.33 | 56.28 | 58.36 | 60.33 |
| Algeria | 1.10 | 1.15 | 1.22 | 1.29 | 1.36 | 1.44 | 1.52 | 1.61 | 1.69 | 1.79 | 1.89 |
| Egypt | 3.70 | 3.71 | 3.73 | 3.75 | 3.76 | 3.78 | 3.79 | 3.82 | 3.84 | 3.87 | 3.90 |
| Other Africa | 2.24 | 2.16 | 2.05 | 2.01 | 1.97 | 1.99 | 1.98 | 1.99 | 2.01 | 2.07 | 2.14 |
| Other Middle East | 5.45 | 5.33 | 5.39 | 5.44 | 5.45 | 5.50 | 5.53 | 5.56 | 5.59 | 5.63 | 5.66 |
| Brazil | 0.90 | 0.55 | 0.24 | 0.09 | 0.12 | 0.09 | 0.10 | 0.11 | 0.19 | 0.33 | 0.44 |
| Mexico | 4.95 | 4.92 | 5.11 | 5.18 | 5.34 | 5.52 | 5.67 | 5.80 | 5.92 | 6.08 | 6.28 |
| Other Latin America | 8.52 | 8.67 | 8.78 | 8.98 | 9.21 | 9.40 | 9.60 | 9.80 | 10.01 | 10.23 | 10.46 |
| China | -4.50 | -3.12 | -1.90 | -0.26 | 0.93 | 2.74 | 3.90 | 5.03 | 5.92 | 6.82 | 7.51 |
| Indonesia | 0.40 | 0.59 | 0.70 | 0.79 | 0.89 | 1.00 | 1.11 | 1.23 | 1.35 | 1.48 | 1.63 |
| Malaysia | 2.60 | 2.59 | 2.60 | 2.65 | 2.70 | 2.76 | 2.83 | 2.91 | 2.99 | 3.09 | 3.19 |
| South Korea | 8.50 | 8.59 | 8.67 | 8.78 | 8.86 | 8.93 | 9.00 | 9.09 | 9.17 | 9.25 | 9.34 |
| Taiwan | 4.50 | 4.77 | 5.10 | 5.23 | 5.28 | 5.39 | 5.49 | 5.60 | 5.69 | 5.81 | 5.93 |
| Thailand | 0.25 | 0.35 | 0.39 | 0.43 | 0.46 | 0.51 | 0.53 | 0.55 | 0.55 | 0.55 | 0.56 |
| Philippines | 0.15 | 0.25 | 0.24 | 0.26 | 0.25 | 0.26 | 0.26 | 0.27 | 0.29 | 0.32 | 0.36 |
| India | 0.25 | 0.32 | 0.36 | 0.36 | 0.55 | 0.53 | 0.57 | 0.59 | 0.63 | 0.60 | 0.60 |
| Pakistan | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vietnam | 0.05 | 0.06 | 0.04 | 0.02 | 0.02 | 0.02 | 0.03 | 0.05 | 0.07 | 0.11 | 0.15 |
| Other Asia | 0.27 | 0.25 | 0.27 | 0.32 | 0.33 | 0.36 | 0.37 | 0.39 | 0.41 | 0.43 | 0.45 |
| Rest of World | 0.10 | 0.11 | 0.11 | 0.13 | 0.15 | 0.16 | 0.18 | 0.20 | 0.21 | 0.23 | 0.25 |
| Residual | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 |
| Total Net Imports | 66.68 | 67.29 | 67.77 | 68.48 | 70.15 | 72.74 | 74.51 | 76.28 | 78.03 | 80.02 | 81.85 |
| Coarse Grain Prices | | | | | (U.S. Dolla | ars per Me | etric Ton) | | | | |
| Corn (FOB Gulf) | 87.97 | 97.31 | 101.39 | 101.24 | 104.46 | 104.95 | 107.41 | 108.88 | 110.93 | 112.28 | 114.51 |
| Sorghum (FOB Gulf) | 81.44 | 90.72 | 94.83 | 95.64 | 98.67 | 99.44 | 101.33 | 102.38 | 103.99 | 105.31 | 107.37 |
| Barley (Portland) | 108.00 | 120.95 | 122.94 | 123.56 | 127.41 | 128.47 | 131.55 | 134.24 | 137.50 | 140.49 | 144.38 |

Barley Trade

| Daney Trade | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|---------------------------|-----------------------|--------|--------|--------|-------------|------------|------------|--------|--------|--------|--------|
| Net Exporters | (Million Metric Tons) | | | | | | | | | | |
| Argentina | 0.03 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 |
| Australia | 2.70 | 3.14 | 3.38 | 3.49 | 3.55 | 3.58 | 3.61 | 3.63 | 3.65 | 3.67 | 3.66 |
| Canada | 1.66 | 1.42 | 1.39 | 1.40 | 1.47 | 1.51 | 1.49 | 1.42 | 1.49 | 1.63 | 1.78 |
| European Union | 11.30 | 10.00 | 10.05 | 10.13 | 10.48 | 10.61 | 10.83 | 10.91 | 11.01 | 11.10 | 11.21 |
| Russia | -0.05 | 0.69 | 0.77 | 0.60 | 0.50 | 0.51 | 0.50 | 0.55 | 0.62 | 0.66 | 0.73 |
| Ukraine | 0.80 | 0.97 | 0.91 | 1.02 | 0.94 | 0.93 | 0.92 | 1.06 | 1.24 | 1.44 | 1.57 |
| United States | 0.11 | 0.10 | 0.12 | 0.08 | 0.11 | 0.11 | 0.15 | 0.17 | 0.20 | 0.21 | 0.22 |
| Total Net Exports | 17.31 | 17.31 | 17.72 | 17.92 | 18.15 | 18.46 | 18.79 | 19.13 | 19.72 | 20.35 | 20.97 |
| Net Importers | | | | | | | | | | | |
| Czech Republic | 0.23 | 0.16 | 0.19 | 0.21 | 0.24 | 0.26 | 0.27 | 0.28 | 0.28 | 0.29 | 0.29 |
| Hungary | -0.10 | -0.06 | -0.13 | -0.16 | -0.17 | -0.19 | -0.21 | -0.23 | -0.25 | -0.27 | -0.29 |
| Poland | 0.10 | 0.07 | 0.09 | 0.11 | 0.13 | 0.17 | 0.21 | 0.25 | 0.29 | 0.32 | 0.35 |
| Other Eastern Europe | 0.03 | -0.03 | -0.05 | -0.09 | -0.12 | -0.14 | -0.14 | -0.14 | -0.13 | -0.12 | -0.10 |
| Israel | 0.70 | 0.71 | 0.72 | 0.72 | 0.72 | 0.71 | 0.71 | 0.71 | 0.71 | 0.70 | 0.70 |
| Japan | 1.40 | 1.30 | 1.26 | 1.24 | 1.23 | 1.21 | 1.20 | 1.16 | 1.14 | 1.14 | 1.13 |
| Other Former Soviet Union | -0.67 | -0.92 | -0.96 | -1.01 | -0.92 | -0.99 | -1.05 | -1.13 | -1.22 | -1.33 | -1.46 |
| Developing | 11.59 | 11.85 | 12.30 | 12.55 | 12.78 | 13.08 | 13.36 | 13.66 | 14.19 | 14.74 | 15.28 |
| Algeria | 0.60 | 0.62 | 0.64 | 0.65 | 0.67 | 0.69 | 0.72 | 0.74 | 0.76 | 0.79 | 0.82 |
| Other Africa | 1.40 | 1.37 | 1.40 | 1.43 | 1.45 | 1.49 | 1.51 | 1.54 | 1.57 | 1.60 | 1.63 |
| Saudi Arabia | 4.70 | 4.88 | 5.08 | 5.14 | 5.21 | 5.29 | 5.36 | 5.43 | 5.70 | 5.96 | 6.22 |
| Other Middle East | 1.93 | 1.89 | 1.90 | 1.92 | 1.92 | 1.93 | 1.94 | 1.95 | 1.96 | 1.97 | 1.98 |
| Brazil | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Mexico | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 |
| Other Latin America | 0.22 | 0.22 | 0.21 | 0.20 | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.17 |
| China | 2.30 | 2.40 | 2.61 | 2.71 | 2.82 | 2.97 | 3.11 | 3.28 | 3.46 | 3.68 | 3.88 |
| Pakistan | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Taiwan | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.22 | 0.24 | 0.25 | 0.26 |
| Other Asia | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Rest of World | 0.38 | 0.36 | 0.32 | 0.30 | 0.29 | 0.29 | 0.30 | 0.32 | 0.35 | 0.39 | 0.43 |
| Residual | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 |
| Total Net Imports | 17.31 | 17.31 | 17.72 | 17.92 | 18.15 | 18.46 | 18.79 | 19.13 | 19.72 | 20.35 | 20.97 |
| Coarse Grain Prices | | | | | (U.S. Dolla | ars per Me | etric Ton) | | | | |
| Corn (FOB Gulf) | 87.97 | 97.31 | 101.39 | 101.24 | 104.46 | 104.95 | 107.41 | 108.88 | 110.93 | 112.28 | 114.51 |
| Sorghum (FOB Gulf) | 81.44 | 90.72 | 94.83 | 95.64 | 98.67 | 99.44 | 101.33 | 102.38 | 103.99 | 105.31 | 107.37 |
| Barley (Portland) | 108.00 | 120.95 | 122.94 | 123.56 | 127.41 | 128.47 | 131.55 | 134.24 | 137.50 | 140.49 | 144.38 |

Sorghum Trade

| Conginant trade | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 | |
|---------------------|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Net Exporters | (Million Metric Tons) | | | | | | | | | | | |
| Argentina | 0.80 | 0.83 | 0.91 | 0.91 | 0.91 | 0.92 | 0.95 | 0.97 | 1.00 | 1.05 | 1.11 | |
| Australia | 0.25 | 0.24 | 0.21 | 0.20 | 0.21 | 0.23 | 0.27 | 0.31 | 0.35 | 0.41 | 0.46 | |
| United States | 5.33 | 5.48 | 5.65 | 5.73 | 5.81 | 5.87 | 5.93 | 5.94 | 5.99 | 6.07 | 6.13 | |
| Total Net Exports | 6.38 | 6.55 | 6.77 | 6.85 | 6.93 | 7.02 | 7.14 | 7.22 | 7.35 | 7.52 | 7.70 | |
| Net Importers | | | | | | | | | | | | |
| Israel | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | |
| Japan | 2.30 | 2.21 | 2.21 | 2.17 | 2.15 | 2.13 | 2.12 | 2.06 | 2.03 | 2.03 | 2.03 | |
| Developing | 3.40 | 3.51 | 3.71 | 3.80 | 3.85 | 3.90 | 3.95 | 4.01 | 4.08 | 4.17 | 4.27 | |
| Mexico | 3.40 | 3.49 | 3.69 | 3.77 | 3.81 | 3.85 | 3.90 | 3.94 | 4.00 | 4.08 | 4.17 | |
| South Africa | 0.00 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.06 | 0.07 | 0.08 | 0.09 | 0.11 | |
| Nigeria | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| India | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Pakistan | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Rest of World | 0.53 | 0.66 | 0.69 | 0.72 | 0.76 | 0.81 | 0.88 | 0.96 | 1.03 | 1.10 | 1.17 | |
| Residual | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | |
| Total Net Imports | 6.38 | 6.55 | 6.77 | 6.85 | 6.93 | 7.02 | 7.14 | 7.22 | 7.35 | 7.52 | 7.70 | |
| Coarse Grain Prices | (U.S. Dollars per Metric Ton) | | | | | | | | | | | |
| Corn (FOB Gulf) | 87.97 | 97.31 | 101.39 | 101.24 | 104.46 | 104.95 | 107.41 | 108.88 | 110.93 | 112.28 | 114.51 | |
| Sorghum (FOB Gulf) | 81.44 | 90.72 | 94.83 | 95.64 | 98.67 | 99.44 | 101.33 | 102.38 | 103.99 | 105.31 | 107.37 | |
| Barley (Portland) | 108.00 | 120.95 | 122.94 | 123.56 | 127.41 | 128.47 | 131.55 | 134.24 | 137.50 | 140.49 | 144.38 | |

World Soybean and Soybean Products Trade

- World oilseeds area harvested is expected to increase by 3.4 mha during 1999/00 to 140.9 mha. The total area is projected to increase to 150.3 mha by 2009/10.
- World soybean area will increase to a record 70.6 mha in 1999/00 and is projected to decline slightly in 2001/02 and 2002/03, and then increase by the end of projection period to 74.7 mha.
- Current year soybean prices are down 2.6 percent compared to last year's price of \$219 per mmt, the lowest level in the last decade. This price is projected to go down further by 9.1 percent next year and then increase throughout the projection period to \$255 per mmt. Current soy meal price increased by 4 percent in the last year, while soy oil price remains the same compared to last year's. These prices are projected to decline in the next two years before starting to increase.
- The U.S. soybean harvested area is projected to increase by 1 percent next year due to the favorable marketing loan rates for soybeans, while Argentina's and Brazil's soybean areas decrease by 1.3 percent and 1.6 percent, respectively, next year due to low world soybean price. For the long term, the soybean harvested area is projected to be 29.3 mha, 8.6 mha, and 14.0 mha, respectively, for the United States, Argentina, and Brazil in 2009/10.
- The United States' share of world soybean exports is expected to increase from 64.1 percent in current year to 69.6 percent in 2001/02 and then decline to 65 percent in 2009/10. The U.S. shares of soy meal and soy oil exports are projected to be 18.5 percent and 20.6 percent, respectively, by 2009/10.
- Due to strong per capita oil demand, demand for meal from the livestock sector, and Chinese grain policy, China emerges as the second largest importer of oilseeds, behind the EU-15. Chinese soybean net imports are projected to significantly increase from 4.2 mmt in the current year to 7.5 mmt in 2009/10. Soy meal net imports are projected to increase from 11 mmt to 16 mmt during the same period.
- The increase in the set-aside rate in 1999/00 and the changes in relative returns lead to a 30 percent reduction in EU soybean area this year. Soybean area is projected to fall gradually between 2000/01 and 2003/04 by 20 percent due to the cut in oilseed direct payments and their gradual alignment to the cereal payment. EU soybean net imports are projected to increase from 14.6 mmt in the current year to 16.7 mmt in 2009/10.
- Total soybean acreage in India is expected to grow from 5.8 mha in 1999/00 to 7.3 mha by 2009/10. The Indian government is considering further raising the import duty on refined edible oils to about 40 percent. India is expected to remain the fourth largest exporter of soy meal during the projection period. Soy meal net exports will grow from 2.6 mmt in the current year to 3.1 mmt by the end of projection period.
- Japan imports a large quantity of soybeans for its domestic crushing industry; however, imports slightly decrease from the past year. Total soybean imports are not expected to change from their current level of about 4.6 mmt.
- Taiwan also imports relatively large quantities of beans for domestic crushing to supply soy meal to its hog and poultry industries. As its hog industry recovers slowly from its recent crisis, Taiwan's soybean imports are expected to grow from 2.3 mmt in the current year to 2.5 mmt by the end of projection period.
- South Korean bean and meal demands are also projected to grow, but at a slower rate. The bean and meal imports are projected to grow by 65 thousand metric ton (tmt) and 336 tmt, respectively, by the end of the period.
- Mexican soybean and meal imports are projected to grow by about 580 tmt and 512 tmt, respectively, during the period.

Soybean Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|---------------------------|--------|--------|--------|--------|-------------|------------|--------|--------|--------|--------|--------|
| Net Exporters | | | | | (Thousa | and Metric | Tons) | | | | |
| Argentina | 2,300 | 2,074 | 2,229 | 2,469 | 2,545 | 2,668 | 2,731 | 2,856 | 2,942 | 3,059 | 3,157 |
| Brazil | 7,800 | 6,799 | 7,240 | 7,397 | 7,610 | 7,786 | 7,992 | 8,177 | 8,392 | 8,586 | 8,783 |
| Canada | 616 | 497 | 495 | 662 | 646 | 702 | 687 | 749 | 761 | 737 | 718 |
| Paraguay | 2,400 | 2,397 | 2,422 | 2,478 | 2,527 | 2,583 | 2,630 | 2,689 | 2,737 | 2,788 | 2,839 |
| United States | 23,460 | 26,807 | 28,331 | 27,597 | 26,971 | 27,161 | 27,406 | 27,842 | 28,114 | 28,604 | 28,930 |
| Total Net Exports | 36,580 | 38,565 | 40,714 | 40,609 | 40,296 | 40,902 | 41,441 | 42,304 | 42,944 | 43,757 | 44,409 |
| Net Importers | | | | | | | | | | | |
| Eastern Europe | -4 | 122 | 180 | 209 | 233 | 254 | 275 | 295 | 317 | 338 | 361 |
| European Union | 14,614 | 15,709 | 15,896 | 15,760 | 16,008 | 16,044 | 16,273 | 16,288 | 16,465 | 16,543 | 16,714 |
| Former Soviet Union | 435 | 436 | 442 | 448 | 452 | 456 | 460 | 463 | 465 | 468 | 470 |
| Russia | 190 | 191 | 190 | 188 | 186 | 184 | 181 | 179 | 176 | 173 | 170 |
| Ukraine | 20 | 20 | 27 | 33 | 40 | 47 | 53 | 59 | 66 | 72 | 79 |
| Other Former Soviet Union | 225 | 225 | 226 | 226 | 226 | 226 | 225 | 225 | 224 | 223 | 222 |
| Japan | 4,600 | 4,640 | 4,641 | 4,634 | 4,636 | 4,635 | 4,639 | 4,638 | 4,640 | 4,641 | 4,634 |
| Developing | 11,700 | 12,200 | 14,081 | 14,207 | 13,544 | 14,058 | 14,223 | 14,876 | 15,141 | 15,654 | 15,875 |
| China | 4,200 | 4,675 | 6,476 | 6,501 | 5,739 | 6,166 | 6,237 | 6,800 | 6,975 | 7,389 | 7,503 |
| India | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mexico | 3,700 | 3,746 | 3,802 | 3,860 | 3,918 | 3,978 | 4,037 | 4,097 | 4,158 | 4,219 | 4,280 |
| South Korea | 1,500 | 1,323 | 1,352 | 1,377 | 1,406 | 1,430 | 1,453 | 1,476 | 1,495 | 1,526 | 1,565 |
| Taiwan | 2,300 | 2,455 | 2,451 | 2,469 | 2,481 | 2,485 | 2,495 | 2,502 | 2,513 | 2,520 | 2,527 |
| Rest of World | 6,403 | 6,625 | 6,641 | 6,520 | 6,591 | 6,623 | 6,740 | 6,912 | 7,083 | 7,281 | 7,523 |
| Residual | -1,168 | -1,168 | -1,168 | -1,168 | -1,168 | -1,168 | -1,168 | -1,168 | -1,168 | -1,168 | -1,168 |
| Total Net Imports | 36,580 | 38,565 | 40,714 | 40,609 | 40,296 | 40,902 | 41,441 | 42,304 | 42,944 | 43,757 | 44,409 |
| Prices | | | | | (U.S. Dolla | | | | | | |
| FOB Gulf | 192 | 171 | 181 | 198 | 200 | 207 | 208 | 215 | 218 | 224 | 228 |
| CIF Rotterdam | 219 | 199 | 208 | 225 | 228 | 234 | 235 | 242 | 245 | 251 | 255 |

Soybean Meal Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|---------------------------|--------|--------|--------|--------|-------------|------------|------------|--------|--------|--------|--------|
| Net Exporters | | | | | (Thousa | and Metric | Tons) | | | | |
| Argentina | 12,400 | 12,967 | 12,929 | 12,918 | 13,170 | 13,453 | 13,706 | 13,946 | 14,179 | 14,441 | 14,665 |
| Brazil | 10,085 | 10,283 | 9,867 | 10,083 | 10,381 | 10,678 | 10,980 | 11,306 | 11,634 | 11,973 | 12,307 |
| India | 2,600 | 2,573 | 2,598 | 2,665 | 2,724 | 2,786 | 2,841 | 2,900 | 2,955 | 3,010 | 3,061 |
| Paraguay | 306 | 340 | 344 | 343 | 370 | 388 | 418 | 435 | 463 | 488 | 512 |
| United States | 6,441 | 6,869 | 7,143 | 7,196 | 7,302 | 7,451 | 7,657 | 7,671 | 7,771 | 7,837 | 7,944 |
| Total Net Exports | 31,832 | 33,033 | 32,882 | 33,206 | 33,949 | 34,757 | 35,604 | 36,261 | 37,006 | 37,752 | 38,482 |
| Net Importers | | | | | | | | | | | |
| Canada | 660 | 607 | 656 | 652 | 643 | 627 | 605 | 581 | 565 | 556 | 549 |
| Eastern Europe | 2,169 | 2,070 | 2,085 | 2,111 | 2,139 | 2,167 | 2,197 | 2,228 | 2,261 | 2,295 | 2,331 |
| European Union | 14,907 | 16,067 | 15,895 | 15,674 | 15,850 | 16,001 | 16,216 | 16,387 | 16,583 | 16,777 | 17,009 |
| Former Soviet Union | 857 | 616 | 598 | 590 | 603 | 630 | 660 | 689 | 716 | 726 | 745 |
| Russia | 354 | 128 | 147 | 159 | 180 | 205 | 235 | 263 | 292 | 315 | 339 |
| Ukraine | 140 | 131 | 111 | 99 | 89 | 82 | 73 | 64 | 58 | 40 | 27 |
| Other Former Soviet Union | 363 | 357 | 340 | 332 | 334 | 342 | 352 | 361 | 367 | 371 | 379 |
| Japan | 950 | 934 | 900 | 867 | 853 | 822 | 799 | 777 | 761 | 736 | 717 |
| Developing | 2,655 | 2,438 | 2,471 | 2,485 | 2,482 | 2,630 | 2,848 | 3,030 | 3,261 | 3,458 | 3,696 |
| China | 1,235 | 933 | 930 | 878 | 874 | 948 | 1,068 | 1,177 | 1,286 | 1,347 | 1,429 |
| Mexico | 160 | 160 | 213 | 265 | 233 | 288 | 356 | 420 | 495 | 577 | 672 |
| South Korea | 1,250 | 1,336 | 1,321 | 1,336 | 1,370 | 1,388 | 1,418 | 1,428 | 1,473 | 1,526 | 1,586 |
| Taiwan | 10 | 9 | 7 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 8 |
| Rest of World | 11,463 | 12,130 | 12,106 | 12,656 | 13,208 | 13,708 | 14,107 | 14,397 | 14,688 | 15,034 | 15,264 |
| Residual | -1,829 | -1,829 | -1,829 | -1,829 | -1,829 | -1,829 | -1,829 | -1,829 | -1,829 | -1,829 | -1,829 |
| Total Net Imports | 31,832 | 33,033 | 32,882 | 33,206 | 33,949 | 34,757 | 35,604 | 36,261 | 37,006 | 37,752 | 38,482 |
| Prices | | | | | (U.S. Dolla | ars per Me | etric Ton) | | | | |
| FOB Decatur 44% | 161 | 144 | 149 | 161 | 163 | 168 | 169 | 173 | 175 | 179 | 181 |
| CIF Rotterdam | 165 | 149 | 154 | 166 | 168 | 172 | 173 | 177 | 180 | 183 | 185 |

Soybean Oil Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|---------------------------|-------|-------|-------|-------|------------|-----------|-------|-------|-------|-------|-------|
| Net Exporters | | | | | (Thousa | nd Metric | Tons) | | | | |
| Argentina | 2,600 | 2,633 | 2,631 | 2,632 | 2,685 | 2,747 | 2,802 | 2,855 | 2,906 | 2,961 | 3,015 |
| Brazil | 1,285 | 1,133 | 1,021 | 1,042 | 1,038 | 1,047 | 1,063 | 1,096 | 1,127 | 1,163 | 1,204 |
| European Union | 1,061 | 1,139 | 1,211 | 1,249 | 1,276 | 1,293 | 1,317 | 1,329 | 1,350 | 1,366 | 1,392 |
| Paraguay | 65 | 67 | 90 | 91 | 99 | 104 | 113 | 118 | 127 | 134 | 142 |
| United States | 795 | 1,252 | 1,452 | 1,467 | 1,491 | 1,501 | 1,529 | 1,525 | 1,552 | 1,557 | 1,570 |
| Total Net Exports | 5,806 | 6,236 | 6,419 | 6,485 | 6,570 | 6,645 | 6,744 | 6,809 | 6,909 | 6,988 | 7,089 |
| Net Importers | | | | | | | | | | | |
| Canada | -15 | -5 | -8 | -9 | -10 | -11 | -12 | -13 | -12 | -13 | -13 |
| Eastern Europe | 83 | 120 | 121 | 121 | 123 | 124 | 125 | 126 | 127 | 129 | 130 |
| Former Soviet Union | 83 | 84 | 91 | 97 | 104 | 110 | 117 | 124 | 131 | 138 | 146 |
| Russia | 40 | 43 | 50 | 56 | 63 | 69 | 76 | 83 | 90 | 96 | 103 |
| Ukraine | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 41 | 41 | 41 |
| Other Former Soviet Union | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Japan | 16 | 26 | 27 | 28 | 28 | 28 | 27 | 26 | 25 | 24 | 21 |
| Developing | 1,725 | 2,080 | 2,248 | 2,251 | 2,265 | 2,252 | 2,271 | 2,262 | 2,281 | 2,283 | 2,318 |
| China | 775 | 1,112 | 1,244 | 1,216 | 1,198 | 1,153 | 1,136 | 1,091 | 1,069 | 1,029 | 1,018 |
| India | 750 | 727 | 754 | 772 | 788 | 804 | 822 | 838 | 858 | 877 | 898 |
| Mexico | 80 | 87 | 90 | 95 | 101 | 108 | 115 | 123 | 132 | 142 | 153 |
| South Korea | 100 | 130 | 137 | 144 | 150 | 156 | 164 | 171 | 180 | 188 | 195 |
| Taiwan | 20 | 24 | 23 | 24 | 27 | 31 | 35 | 39 | 43 | 48 | 53 |
| Rest of World | 4,029 | 4,046 | 4,056 | 4,112 | 4,176 | 4,256 | 4,331 | 4,398 | 4,471 | 4,542 | 4,602 |
| Residual | -115 | -115 | -115 | -115 | -115 | -115 | -115 | -115 | -115 | -115 | -115 |
| Total Net Imports | 5,806 | 6,236 | 6,419 | 6,485 | 6,570 | 6,645 | 6,744 | 6,809 | 6,909 | 6,988 | 7,089 |
| Prices | | | | , | U.S. Dolla | | , | | | | |
| FOB Decatur | 353 | 337 | 370 | 400 | 412 | 428 | 440 | 457 | 473 | 491 | 517 |
| FOB Rotterdam | 405 | 391 | 420 | 448 | 459 | 474 | 484 | 500 | 514 | 531 | 554 |

World Rapeseed and Rapeseed Products Trade

- World rapeseed price is expected to further decline in the next year due to low world soybean prices and historical ending stock levels in 1999/00. The price is expected to recover and increase after 2000/01 through the end of the projection period.
- World rapeseed/canola harvested area is expected to increase by 2.1 mha during this coming year. Lower prices are projected to decrease next year's area. Long-term planting area in rapeseed is expected to grow relatively slow to about 27.1 mha by 2009/10. Production and crush are expected to grow to 45.1 mmt and 42.1 mmt, respectively, by 2009/10.
- World trade in rapeseed keeps expanding after last year's record harvested area and high demand from China and Japan. Trade in rapeseed is projected to grow to 5.3 mmt by 2009/10.
- Expected relative returns in canola in the last two crop years favored greater Canadian oilseed plantings and reduced wheat and barley area. The canola planting area reached 5.6 mha in 1999/00. The area is expected to decline in the short term because of declining canola prices. However, it will recover after 2001/02 and increase over the remainder of the projection period.
- Very low rapeseed stocks encouraged EU farmers to expand planting area in rapeseed and resulted in record area in 1999/00. EU rapeseed production increased by 1.8 mmt over the previous year and 2.7 mmt over two years ago. Rapeseed area is expected to fall gradually between 2000/01 and 2002/03 with the alignment of oilseed direct payments with cereal ones, and then more slowly after 2002/03.
- As the major domestic source of vegetable oil in India, rapeseed is projected to be stable over the period. The
 production is expected to increase with yield improvements, from 6.0 mmt in 1999/00 to 7.8 mmt by 2009/10,
 and meet domestic crush demand.
- Chinese rapeseed imports hit a record of 2.8 mmt in 1999/00. By contrast, trade in both oil and meal has fallen, partly as a result of government actions limiting imports in order to protect domestic producers and crushers. The planted area is projected to increase slightly to 7.8 mha by 2009/10. The rapeseed net imports are expected to increase to 3 mmt, while rape oil imports are projected to decrease slowly.
- Primarily, the EU and Japan import canola meal from Canada for its quality. Most rape meal from China and India is not suitable for animal consumption and the latter is exported to the EU for industrial purposes. Total trade in meal is expected to increase by 10 percent in 1999/00 compared to the previous year. Trade in meal is expected to increase from 2.1 mmt in 1999/00 to 2.8 mmt in 2009/10.
- Rape oil is widely used as cooking oil in China, India, some other developing countries, and in several industrial countries. Increasing incomes in these countries are expected to drive the demand for rape oil. Future trade in rape oil is expected to be restricted by declining planting area in exporting countries, by increases in domestic oil production in importing countries, and by trade policy in favor of the raw products.

Rapeseed Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-------------------|-------|-------|-------|-------|------------|------------|-----------|-------|-------|-------|-------|
| Net Exporters | | | | | (Thousa | nd Metric | Tons) | | | | |
| Canada | 3,540 | 4,294 | 3,816 | 3,725 | 3,825 | 3,896 | 3,964 | 4,084 | 4,198 | 4,354 | 4,537 |
| Total Net Exports | 4,787 | 4,810 | 4,496 | 4,527 | 4,650 | 4,761 | 4,847 | 4,970 | 5,078 | 5,191 | 5,312 |
| Net Importers | | | | | | | | | | | |
| China | 2,800 | 2,546 | 2,330 | 2,336 | 2,389 | 2,482 | 2,557 | 2,662 | 2,756 | 2,855 | 2,960 |
| European Union | -806 | -516 | -505 | -452 | -379 | -430 | -472 | -556 | -624 | -671 | -711 |
| India | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Japan | 2,200 | 2,219 | 2,165 | 2,251 | 2,261 | 2,279 | 2,290 | 2,309 | 2,322 | 2,336 | 2,351 |
| Rest of World | -441 | 45 | -174 | -350 | -446 | -434 | -410 | -330 | -256 | -166 | -64 |
| Residual | 0 | 0 | 0 | -60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Net Imports | 4,787 | 4,810 | 4,496 | 4,527 | 4,650 | 4,761 | 4,847 | 4,970 | 5,078 | 5,191 | 5,312 |
| Prices | | | | (| U.S. Dolla | ırs per Me | tric Ton) | | | | |
| Cash Vancouver | 205 | 181 | 194 | 208 | 211 | 213 | 222 | 223 | 232 | 235 | 245 |
| CIF Hamburg | 195 | 177 | 186 | 197 | 200 | 201 | 208 | 209 | 216 | 218 | 226 |

Rapeseed Meal Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-------------------|-------|-------|-------|-------|------------|------------|-----------|-------|-------|-------|-------|
| Net Exporters | | | | | (Thousa | nd Metric | Tons) | | | | |
| Canada | 1,292 | 1,452 | 1,505 | 1,557 | 1,600 | 1,643 | 1,684 | 1,726 | 1,766 | 1,806 | 1,846 |
| China | 370 | 577 | 457 | 488 | 505 | 529 | 541 | 568 | 588 | 607 | 626 |
| India | 400 | 553 | 619 | 606 | 575 | 542 | 519 | 495 | 457 | 412 | 363 |
| Total Net Exports | 2,062 | 2,583 | 2,581 | 2,651 | 2,680 | 2,715 | 2,744 | 2,789 | 2,812 | 2,825 | 2,836 |
| Net Importers | | | | | | | | | | | |
| European Union | 273 | 712 | 829 | 855 | 915 | 956 | 1,007 | 1,026 | 1,091 | 1,125 | 1,188 |
| Japan | 175 | 132 | 123 | 110 | 103 | 94 | 88 | 78 | 71 | 63 | 51 |
| Rest of World | 2,018 | 2,143 | 2,033 | 2,090 | 2,066 | 2,068 | 2,052 | 2,088 | 2,055 | 2,041 | 2,001 |
| Residual | -404 | -404 | -404 | -404 | -404 | -404 | -404 | -404 | -404 | -404 | -404 |
| Total Net Imports | 2,062 | 2,583 | 2,581 | 2,651 | 2,680 | 2,715 | 2,744 | 2,789 | 2,812 | 2,825 | 2,836 |
| Price | | | | (| U.S. Dolla | ars per Me | tric Ton) | | | | |
| FOB Hamburg | 95 | 99 | 107 | 110 | 114 | 117 | 123 | 128 | 132 | 137 | 142 |

Rapeseed Oil Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-------------------|-------|-------|-------|-------|-------------|-----------|-----------|-------|-------|-------|-------|
| Net Exporters | | | | | (Thousa | nd Metric | Tons) | | | | |
| Canada | 785 | 801 | 861 | 904 | 932 | 955 | 983 | 999 | 1,030 | 1,050 | 1,087 |
| European Union | 548 | 470 | 418 | 360 | 310 | 282 | 260 | 237 | 224 | 195 | 184 |
| Total Net Exports | 1,333 | 1,271 | 1,279 | 1,264 | 1,242 | 1,236 | 1,243 | 1,236 | 1,255 | 1,245 | 1,271 |
| Net Importers | | | | | | | | | | | |
| China | 145 | 157 | 187 | 161 | 137 | 119 | 118 | 114 | 124 | 111 | 164 |
| India | 200 | 201 | 183 | 200 | 227 | 251 | 267 | 278 | 293 | 307 | 321 |
| Japan | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 |
| Rest of World | 1,027 | 952 | 949 | 942 | 917 | 906 | 899 | 884 | 878 | 866 | 826 |
| Residual | -43 | -43 | -43 | -43 | -43 | -43 | -43 | -43 | -43 | -43 | -43 |
| Total Net Imports | 1,333 | 1,271 | 1,279 | 1,264 | 1,242 | 1,236 | 1,243 | 1,236 | 1,255 | 1,245 | 1,271 |
| Price | | | | (| (U.S. Dolla | rs per Me | tric Ton) | | | | |
| FOB Rotterdam | 410 | 396 | 422 | 443 | 456 | 468 | 485 | 496 | 517 | 530 | 557 |

World Sunflower Seed and Products Trade

- World area under sunflowers is expected to grow from 23.2 mha in 1999/00 to 27.6 mha in 2009/10. During the same period, total sunflower trade is expected to grow from 2.6 mmt to 3.2 mmt.
- Argentina is, by far, the world's largest exporter of sunflower seed, meal, and oil. Argentine area under sunflowers dropped by 8 percent in 1999/00 from the previous year because of lower world prices. This area is projected to increase by 549,000 hectares over the next decade as prices recover after 2000/01.
- With a 27 percent increase in sunflower planted area from the previous year, Russia is the world's largest exporter of sunflower seed in 1999/00. Although processing is running at less than 70 percent capacity, the oilseeds sector remains one of the healthiest of Russian agriculture because of strong demand for both vegetable oil and meal for animal feeds. The planted area is projected to increase from 5.3 mha to 6.1 mha by 2009/10.
- The EU is the largest importer of sunflower seeds and meal. Imports for both are expected to grow due to the expected decrease in planted area following the direct payment reductions.

Sunflower Seed Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 | |
|---------------------------|-------------------------------|-------|-------|-------|---------|-----------|-------|-------|-------|-------|-------|--|
| Net Exporters | | | | | (Thousa | nd Metric | Tons) | | | | | |
| Argentina | 800 | 804 | 845 | 904 | 930 | 965 | 987 | 1,022 | 1,050 | 1,084 | 1,114 | |
| China | 0 | -31 | -29 | -18 | -20 | -22 | -28 | -29 | -33 | -35 | -38 | |
| Russia | 1,190 | 1,253 | 1,301 | 1,339 | 1,368 | 1,392 | 1,411 | 1,426 | 1,438 | 1,449 | 1,458 | |
| Ukraine | 497 | 500 | 505 | 510 | 515 | 520 | 525 | 530 | 535 | 540 | 545 | |
| Other Former Soviet Union | 115 | 106 | 107 | 108 | 108 | 107 | 110 | 111 | 113 | 115 | 141 | |
| Total Net Exports | 2,602 | 2,631 | 2,730 | 2,843 | 2,901 | 2,962 | 3,005 | 3,060 | 3,103 | 3,152 | 3,220 | |
| Net Importers | | | | | | | | | | | | |
| European Union | 2,225 | 2,390 | 2,397 | 2,377 | 2,453 | 2,543 | 2,643 | 2,742 | 2,877 | 3,014 | 3,189 | |
| Rest of World | 228 | 92 | 183 | 317 | 299 | 270 | 213 | 169 | 77 | -11 | -118 | |
| Residual | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | |
| Total Net Imports | 2,602 | 2,631 | 2,730 | 2,843 | 2,901 | 2,962 | 3,005 | 3,060 | 3,103 | 3,152 | 3,220 | |
| | (U.S. Dollars per Metric Ton) | | | | | | | | | | | |
| CIF Lower Rhine Price | 253 | 237 | 244 | 257 | 259 | 264 | 265 | 270 | 272 | 277 | 280 | |

Sunflower Meal Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 | |
|---------------------------|-------------------------------|-------|-------|-------|---------|-----------|-------|-------|-------|-------|-------|--|
| Net Exporters | | | | | (Thousa | nd Metric | Tons) | | | | | |
| Argentina | 2,180 | 2,314 | 2,331 | 2,390 | 2,461 | 2,510 | 2,565 | 2,611 | 2,666 | 2,716 | 2,769 | |
| China | 0 | 16 | 7 | -1 | 1 | 2 | 1 | 1 | -2 | -7 | -11 | |
| Ukraine | 280 | 272 | 271 | 269 | 266 | 262 | 259 | 253 | 273 | 246 | 240 | |
| Total Net Exports | 2,460 | 2,602 | 2,609 | 2,658 | 2,727 | 2,774 | 2,824 | 2,865 | 2,937 | 2,955 | 2,998 | |
| Net Importers | | | | | | | | | | | | |
| European Union | 2,068 | 2,264 | 2,283 | 2,235 | 2,286 | 2,310 | 2,354 | 2,364 | 2,385 | 2,397 | 2,419 | |
| Russia | -10 | -18 | -28 | -12 | 2 | 13 | 18 | 23 | 20 | 22 | 42 | |
| Other Former Soviet Union | 156 | 161 | 155 | 154 | 157 | 162 | 169 | 174 | 179 | 183 | 188 | |
| Rest of World | 321 | 269 | 274 | 356 | 357 | 363 | 359 | 378 | 427 | 428 | 425 | |
| Residual | -75 | -75 | -75 | -75 | -75 | -75 | -75 | -75 | -75 | -75 | -75 | |
| Total Net Imports | 2,460 | 2,602 | 2,609 | 2,658 | 2,727 | 2,774 | 2,824 | 2,864 | 2,937 | 2,955 | 2,998 | |
| | (U.S. Dollars per Metric Ton) | | | | | | | | | | | |
| CIF Rotterdam Price | 84 | 75 | 78 | 84 | 85 | 87 | 88 | 90 | 91 | 93 | 94 | |

Sunflower Oil Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 | |
|---------------------------|-------------------------------|-------|-------|-------|---------|-----------|-------|-------|-------|-------|-------|--|
| Net Exporters | | | | | (Thousa | nd Metric | Tons) | | | | | |
| Argentina | 1,640 | 1,790 | 1,792 | 1,837 | 1,896 | 1,933 | 1,977 | 2,011 | 2,054 | 2,092 | 2,134 | |
| China | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| European Union | 96 | 32 | 93 | 128 | 133 | 171 | 196 | 249 | 292 | 358 | 437 | |
| Ukraine | 290 | 380 | 448 | 498 | 549 | 598 | 661 | 718 | 783 | 853 | 939 | |
| Total Net Exports | 2,026 | 2,203 | 2,333 | 2,463 | 2,579 | 2,703 | 2,833 | 2,978 | 3,129 | 3,303 | 3,510 | |
| Net Importers | | | | | | | | | | | | |
| Russia | 140 | 124 | 150 | 186 | 211 | 226 | 233 | 237 | 239 | 239 | 244 | |
| Other Former Soviet Union | 165 | 177 | 174 | 172 | 171 | 170 | 166 | 163 | 159 | 154 | 149 | |
| Rest of World | 1,602 | 1,781 | 1,889 | 1,986 | 2,078 | 2,188 | 2,314 | 2,459 | 2,611 | 2,790 | 2,998 | |
| Residual | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | |
| Total Net Imports | 2,026 | 2,201 | 2,332 | 2,463 | 2,579 | 2,703 | 2,832 | 2,978 | 3,128 | 3,303 | 3,510 | |
| | (U.S. Dollars per Metric Ton) | | | | | | | | | | | |
| FOB NW Europe Price | 472 | 452 | 484 | 512 | 522 | 537 | 546 | 561 | 575 | 592 | 616 | |

World Palm Oil Complex Trade

- Malaysia and Indonesia are the major producers of palm oil and related products, accounting for more than 75
 percent of total production. Among the major importing countries are China, the EU, and India.
- Indonesian and Malaysian palm oil production is expected to increase by 10 and 5 percent, respectively, in 1999/00. As a result, the palm oil net exports will increase by 6.4 percent and 16.7 percent in Indonesia and Malaysia, respectively, over the previous year.
- Indonesian palm oil production is expected to increase from 6.4 mmt in 1999/00 to 8.3 mmt by 2009/10, and net exports are projected to increase from 3.2 mmt in 1999/00 to 3.5 mmt by 2009/10.
- Malaysian palm oil production is expected to increase from 10.2 mmt in 1999/00 to 12.5 mmt by 2009/10, and net exports are projected to increase from 3.2 mmt in 1999/00 to 3.5 mmt by 2009/10.
- Palm oil imports receive more favorable treatment than other vegetable oils in China, since palm oil is not produced domestically and does not directly compete with domestically produced soft oils. Palm oil imports in China are expected to increase by 4 percent in 1999/00, and they are projected to increase from 1.3 mmt in the current year to 2.2 mmt by 2009/10
- The EU accounts for almost all world trade in palm kernel meal and is expected to import an additional 470 tmt of meal by the end of the period. Its palm oil imports are expected to increase by 528 tmt by 2009/10.

Palm Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|----------------------|--------|--------|--------|--------|-------------|------------|------------|--------|--------|--------|--------|
| Palm Oil | | | | | | | | | | | |
| Net Exporters | | | | | (Thousa | and Metric | Tons) | | | | |
| Malaysia | 8,500 | 9,047 | 8,889 | 9,098 | 9,309 | 9,555 | 9,741 | 9,925 | 10,095 | 10,281 | 10,465 |
| Indonesia | 3,150 | 2,079 | 2,350 | 2,547 | 2,614 | 2,707 | 2,852 | 3,003 | 3,177 | 3,351 | 3,544 |
| Total Net Exports | 11,650 | 11,126 | 11,239 | 11,645 | 11,922 | 12,263 | 12,593 | 12,927 | 13,272 | 13,632 | 14,009 |
| Net Importers | | | | | | | | | | | |
| China | 1,300 | 1,504 | 1,624 | 1,677 | 1,735 | 1,804 | 1,875 | 1,949 | 2,028 | 2,113 | 2,202 |
| European Union | 1,957 | 2,029 | 2,066 | 2,132 | 2,170 | 2,218 | 2,266 | 2,312 | 2,366 | 2,417 | 2,485 |
| Rest of World | 5,849 | 6,108 | 6,063 | 6,351 | 6,532 | 6,756 | 6,967 | 7,181 | 7,394 | 7,618 | 7,837 |
| Residual | 1,485 | 1,485 | 1,485 | 1,485 | 1,485 | 1,485 | 1,485 | 1,485 | 1,485 | 1,485 | 1,485 |
| Total Net Imports | 10,591 | 11,126 | 11,239 | 11,645 | 11,922 | 12,263 | 12,593 | 12,927 | 13,272 | 13,632 | 14,009 |
| Palm Kernel Meal | | | | | | | | | | | |
| Net Exporters | | | | | | | | | | | |
| Malaysia | 1,476 | 1,530 | 1,579 | 1,632 | 1,662 | 1,700 | 1,729 | 1,764 | 1,794 | 1,825 | 1,855 |
| Indonesia | 785 | 530 | 824 | 865 | 871 | 880 | 886 | 895 | 893 | 884 | 868 |
| Rest of World | 23 | 10 | 16 | 29 | 27 | 30 | 27 | 30 | 30 | 31 | 31 |
| Total Net Exports | 2,284 | 2,070 | 2,419 | 2,526 | 2,560 | 2,609 | 2,643 | 2,689 | 2,717 | 2,739 | 2,754 |
| Net Importers | | | | | | | | | | | |
| European Union | 2,284 | 2,070 | 2,419 | 2,526 | 2,560 | 2,609 | 2,643 | 2,689 | 2,717 | 2,739 | 2,754 |
| Residual | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Net Imports | 2,284 | 2,070 | 2,419 | 2,526 | 2,560 | 2,609 | 2,643 | 2,689 | 2,717 | 2,739 | 2,754 |
| Palm Kernel Oil | | | | | | | | | | | |
| Net Exporters | | | | | | | | | | | |
| Malaysia | 470 | 573 | 594 | 594 | 599 | 602 | 602 | 602 | 599 | 595 | 590 |
| Indonesia | 520 | 512 | 567 | 571 | 584 | 586 | 601 | 613 | 628 | 640 | 655 |
| Total Net Exports | 990 | 1,085 | 1,162 | 1,165 | 1,182 | 1,188 | 1,204 | 1,214 | 1,227 | 1,235 | 1,245 |
| Net Importers | | | | | | | | | | | |
| European Union | 507 | 579 | 624 | 654 | 675 | 689 | 700 | 709 | 716 | 723 | 729 |
| Rest of World | 384 | 407 | 439 | 411 | 409 | 399 | 404 | 406 | 412 | 413 | 416 |
| Residual | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 |
| Total Net Imports | 990 | 1,085 | 1,162 | 1,165 | 1,182 | 1,188 | 1,204 | 1,214 | 1,227 | 1,235 | 1,245 |
| CIF Rotterdam Prices | | | | | (U.S. Dolla | ars per Me | etric Ton) | | | | |
| Palm Oil | 412 | 378 | 403 | 411 | 426 | 439 | 453 | 468 | 484 | 499 | 514 |
| Palm Kernel Oil | 503 | 450 | 464 | 462 | 477 | 489 | 503 | 518 | 533 | 548 | 563 |
| Palm Kernel Meal | 76 | 67 | 70 | 77 | 78 | 80 | 81 | 83 | 84 | 86 | 88 |

World Peanut Trade

- World area under peanuts is projected to grow by 336 thousand hectares in the coming decade, increasing the total production to 29.7 mmt by 2009/10.
- One unique characteristic of the peanut sector is that a large amount of the production (nearly 50 percent) is consumed directly as food or in confectionery products. In addition, most of the production is either consumed or processed domestically and only about 6 to 7 percent of the total production is traded globally.
- China is the largest peanut producer and is expected to produce 12.3 mmt from 4.3 mha in 1999/00. The area is projected to increase by 285 thousand hectares, and production increases by 2.7 mmt by the end of the projection period.
- India ranks first in world harvested peanut area. However, due to extremely low productivity, total output is only 6 mmt in 1999/00.
- The EU is, by far, the largest importer of all peanut products and is expected to remain so over the projection period.
- About half of Chinese peanut output is used in direct food consumption and the other half for crush. Total Chinese meal and oil production is expected to increase by 21 percent and 24 percent, respectively. Trade in both meal and oil is negligible.
- Unlike China, most peanuts in India (80 percent) are processed for oil to meet the growing domestic demand for vegetable oils.

Peanut Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-------------------|-------|-------|-------|-------|---------|-----------|-------|-------|-------|-------|-------|
| Peanut | | | | | | | | | | | |
| Net Exporters | | | | | (Thousa | nd Metric | Tons) | | | | |
| China | 350 | 415 | 425 | 429 | 429 | 429 | 427 | 426 | 424 | 421 | 419 |
| India | 41 | 42 | 43 | 44 | 45 | 46 | 48 | 49 | 50 | 51 | 52 |
| United States | 293 | 366 | 355 | 361 | 358 | 356 | 354 | 353 | 352 | 351 | 349 |
| Total Net Exports | 684 | 823 | 823 | 833 | 833 | 831 | 829 | 827 | 825 | 823 | 821 |
| Net Importers | | | | | | | | | | | |
| European Union | 479 | 485 | 482 | 480 | 480 | 479 | 479 | 478 | 477 | 476 | 475 |
| Rest of World | 160 | 293 | 295 | 309 | 308 | 307 | 305 | 305 | 303 | 302 | 301 |
| Residual | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| Total Net Imports | 684 | 823 | 823 | 833 | 833 | 831 | 829 | 827 | 825 | 823 | 821 |
| Peanut Meal | | | | | | | | | | | |
| Net Exporters | | | | | | | | | | | |
| China | 0 | 36 | 41 | 43 | 43 | 43 | 42 | 41 | 40 | 39 | 37 |
| India | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| United States | 11 | 11 | 7 | 7 | 7 | 5 | 4 | 3 | 2 | 1 | 0 |
| Total Net Exports | 154 | 165 | 163 | 158 | 157 | 155 | 154 | 153 | 152 | 150 | 149 |
| Net Importers | | | | | | | | | | | |
| European Union | 154 | 165 | 163 | 158 | 157 | 155 | 154 | 153 | 152 | 150 | 149 |
| Rest of World | -81 | -57 | -53 | -46 | -45 | -45 | -46 | -47 | -47 | -48 | -50 |
| Residual | -22 | -22 | -22 | -22 | -22 | -22 | -22 | -22 | -22 | -22 | -22 |
| Total Net Imports | 154 | 165 | 163 | 158 | 157 | 155 | 154 | 153 | 152 | 150 | 149 |
| Peanut Oil | | | | | | | | | | | |
| Net Exporters | | | | | | | | | | | |
| United States | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 |
| Rest of World | 156 | 161 | 152 | 134 | 128 | 125 | 126 | 126 | 128 | 130 | 132 |
| Total Net Exports | 161 | 167 | 156 | 150 | 148 | 145 | 143 | 141 | 138 | 135 | 135 |
| Net Importers | | | | | | | | | | | |
| China | 0 | 5 | 2 | -11 | -15 | -15 | -13 | -10 | -6 | -1 | 5 |
| European Union | 120 | 121 | 114 | 109 | 107 | 104 | 102 | 100 | 97 | 94 | 90 |
| Residual | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| Total Net Imports | 161 | 167 | 156 | 150 | 148 | 145 | 143 | 141 | 138 | 135 | 135 |

World Rice Trade

- World rice area is projected to decline throughout the projection period from 153.7 to 152.4 mha, mainly because of competition from other cash crops and urbanization. World rice production is projected to increase by 40 mmt in the next 10 years, an increase of 10 percent, even with declining area.
- World rice consumption is projected to grow closely with production. Rice consumption around the world has been changing both in traditional and non-traditional rice consuming regions. Income growth and urbanization is shifting consumption to wheat in traditional rice consuming regions, particularly in Asian countries. On the other hand, per capita consumption has been increasing in poor African countries and non-traditional consuming regions such as United States, the EU, and Canada.
- World rice trade, which accounts for less than 5 percent of world production, is expected to increase by 5 mmt, an increase of 20 percent. Even with a 20 percent increase in trade, the world rice market is likely to remain a sensitive market, where even slight changes in the supply and demand situation in rice exporting and importing countries can have wide fluctuations in world rice prices.
- Asia, the primary rice producing and consuming region, is projected to supply most of the expanded import markets. Thailand and Vietnam, the two largest rice exporters in the world, are projected to capture more than 60 percent of the expanded market.
- In addition to Thailand, other Asian countries, such as Vietnam, India, and Pakistan, also expand their rice exports during the projection period. Vietnam has transformed itself from being an importer to the second largest exporter in the last decade. Vietnamese rice area, which has been growing in the last decade, is projected to be flat in the next 10 years because of competition from other crops and loss of rice area due to urbanization. Production increase through yield growth will rise more than consumption, expanding exports from 3.5 to 4.6 mmt in the next 10 years.
- Similar to Vietnam, Indian rice production primarily grows through yield growth with relatively flat area. Indian rice exports slow down slightly in the short run mainly because of rising consumption. However, as income grows, per capita rice consumption is projected to decline during the second half of the projection period, enabling India to expand its exports to 2.8 mmt by 2009/10.
- Unlike Vietnam and India, rice is not a staple food in Pakistan. Per capita rice consumption in Pakistan is only 17 kg and is not likely to expand in the future. Thus, most of the additional production will find its way through the export market, increasing its exports from 2 to 2.3 mmt.
- Other Asian exporters include China, Taiwan, and Myanmar, which account for a small proportion of total Asian exports. Chinese rice area is projected to decline throughout the projection period because of competition from other crops. Per capita urban consumption is projected to continue to decline with a rise in income, whereas rural per capita consumption grows at a slower pace as income rises. Slower consumption growth enables China to remain a small net exporter of rice throughout the projection period, even with declining area.
- U.S. rice area is projected to decline slightly in the next decade and production grows mostly through yield growth. Strong growth in domestic uses from steadily rising per capita consumption and slow production growth cause exports to decline to 2 mmt by 2009/10.
- MERCOSUR has enabled Argentina and Uruguay to expand their rice exports to Brazil because of dutyfree access to the Brazilian market. This is likely to continue in the future as the lower cost of production

in Argentina and Uruguay keeps Brazilian rice area in its declining trend. Over the projection period, Argentine and Uruguayan rice exports increase by more than 30 and 50 percent, respectively.

- Indonesian rice imports declined to 3 mmt in 1999/00 as compared to 6 mmt in 1997/98 as production returns to normal levels. Growing domestic demand arising from rising per capita consumption and higher population growth are likely to outpace domestic supply, requiring Indonesia to increase its imports by more than 1.6 mmt in the next 10 years.
- Under GATT minimum-access commitments, Japan and South Korea have agreed to import a minimum specified amount of rice. With declining per capita consumption, Japan and South Korea will have to reduce domestic production to accommodate imported rice.

Rice Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|--------------------------|--------|--------|--------|--------|-------------|------------|------------|--------|--------|--------|--------|
| Net Exporters | | | | | (Millio | n Metric T | ons) | | | | |
| Argentina | 0.50 | 0.46 | 0.46 | 0.48 | 0.51 | 0.54 | 0.57 | 0.60 | 0.63 | 0.66 | 0.67 |
| China | 2.45 | 2.62 | 2.69 | 2.76 | 2.62 | 2.26 | 1.92 | 1.67 | 1.52 | 1.45 | 1.43 |
| India | 1.50 | 1.64 | 1.26 | 1.15 | 1.33 | 1.68 | 2.01 | 2.29 | 2.52 | 2.69 | 2.84 |
| Myanmar (Burma) | 0.10 | 0.27 | 0.31 | 0.33 | 0.35 | 0.35 | 0.36 | 0.37 | 0.37 | 0.43 | 0.60 |
| Pakistan | 2.00 | 2.35 | 2.19 | 2.22 | 2.24 | 2.26 | 2.28 | 2.29 | 2.31 | 2.33 | 2.35 |
| Taiwan | 0.15 | 0.25 | 0.22 | 0.22 | 0.23 | 0.25 | 0.27 | 0.30 | 0.33 | 0.36 | 0.39 |
| Thailand | 5.80 | 6.15 | 6.59 | 6.67 | 6.76 | 6.85 | 6.94 | 7.03 | 7.13 | 7.23 | 7.33 |
| United States | 2.26 | 2.58 | 2.64 | 2.65 | 2.54 | 2.45 | 2.38 | 2.30 | 2.21 | 2.13 | 2.04 |
| Uruguay | 0.74 | 0.76 | 0.78 | 0.80 | 0.83 | 0.85 | 0.89 | 0.93 | 0.98 | 1.04 | 1.10 |
| Vietnam | 4.10 | 4.26 | 4.40 | 4.55 | 4.70 | 4.86 | 5.02 | 5.19 | 5.36 | 5.53 | 5.70 |
| Total Net Exports | 19.59 | 21.34 | 21.55 | 21.85 | 22.10 | 22.36 | 22.65 | 22.98 | 23.37 | 23.85 | 24.46 |
| Net Importers | | | | | | | | | | | |
| Brazil | 1.20 | 1.44 | 1.40 | 1.36 | 1.30 | 1.23 | 1.15 | 1.07 | 0.99 | 0.91 | 0.90 |
| European Union | 0.41 | 0.21 | 0.19 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.44 | 0.48 | 0.52 |
| Indonesia | 3.00 | 3.27 | 3.11 | 3.22 | 3.35 | 3.51 | 3.69 | 3.90 | 4.13 | 4.38 | 4.65 |
| Japan | 0.32 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 |
| Phillippines | 0.85 | 0.95 | 1.32 | 1.50 | 1.63 | 1.70 | 1.74 | 1.77 | 1.80 | 1.82 | 1.84 |
| Saudi Arabia | 0.72 | 0.79 | 0.83 | 0.86 | 0.90 | 0.93 | 0.95 | 0.98 | 1.01 | 1.04 | 1.07 |
| South Korea | 0.11 | 0.10 | 0.13 | 0.15 | 0.18 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Rest of World | 11.69 | 12.60 | 12.60 | 12.55 | 12.50 | 12.51 | 12.57 | 12.68 | 12.84 | 13.05 | 13.31 |
| Residual | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 |
| Total Net Imports | 19.59 | 21.34 | 21.55 | 21.85 | 22.10 | 22.36 | 22.65 | 22.98 | 23.37 | 23.85 | 24.46 |
| Rice Prices | | | | | (U.S. Dolla | ars ner Me | etric Ton) | | | | |
| FOB Bangkok 100% B Grade | 240.00 | 247.84 | 259.33 | 269.33 | 276.85 | 283.04 | 290.64 | 297.38 | 303.86 | 309.41 | 314.81 |
| FOB Bangkok 15% Broken | 218.00 | 225.25 | 235.88 | 245.14 | 252.09 | 257.82 | 264.85 | 271.09 | 277.08 | 282.21 | 287.21 |
| FOB U.S. Houston | 306.22 | 323.86 | 338.41 | 351.20 | 360.90 | 368.83 | 378.53 | 387.35 | 395.73 | 403.00 | 410.06 |

World All-Cotton Trade

- Net cotton trade rebounded to 3.9 mmt in 1999/00 from last year's volume of 3.5 mmt. Some renewed strength in Brazilian and Asian markets can be seen as the areas continue to recover from the economic troubles of 1998.
- The United States saw its share of world net trade rebound in 1999/00 to 35 percent from 24 percent the previous year, the lowest share of trade in 10 years. The improvements in trade share, coupled with an expanding world trade market, result in an increase in U.S. net trade from 0.9 mmt in 1999/00 to 1.4 mmt in 2000/01.
- World cotton prices continue their downward slide with the A-index averaging \$1,044 per metric ton in 1999/00, a decline of \$547 per metric ton over the last two seasons. While prices are expected to rebound in 2000/01, prices over the projection period remain at the lower end of the historical price range.
- After a yield decline in 1999/00 that leads to lower available supplies for export, net exports out of Africa recover in the long term, expanding to 1.1 mmt.
- Australia showed a significant reversal in acreage growth in 1999/00, falling to 420 thousand hectares from 562 thousand hectares a year earlier. Acreage and production continue to decline into 2003/04 and then slowly recover, but never reach the acreage of the late 1990s. Conditions throughout the projection period clearly signal a softening of Australia's headlong expansion into cotton that occurred in the second half of the 1990s.
- After a rebound in consumption in 2000/01, world cotton consumption grows slowly during the first half of the projection period. Consumption growth exceeds 1 percent in the second half of the projection period, only then outpacing growth in population.
- Consumption growth during the projection period occurs primarily in countries with large cotton production, such as Australia, India, and Pakistan. However, projected production outpaces the growth in demand, leading to additional exports. Consumption growth in Asia's traditional importers remains relatively flat or declines throughout the projection period.
- China became a net exporter of 235 tmt of cotton in 1999/00, further depressing world prices. The change in net trade position by China comes as a result of a significant reduction of stocks, with the country disposing of 553 tmt of stocks during the year. Although China becomes a net importer in 2000/01 and remains so throughout the projection period, China is expected to reduce stock holdings by an additional 613 tmt in 2000/01, which would leave it holding a quarter of the world's cotton stocks, even after such a significant reduction.
- Uzbekistan continues to hold area at the government's stated target area of 1.5 mha. With stabilized yields, production in 1999/00 is expected to reach 1.2 mmt and remain relatively stable throughout the projection period.

All Cotton Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|---------------------------------------|-------|-------|-------|-------|------------|------------|-----------|-------|-------|-------|-------|
| Net Exporters | | | | | (Thousa | nd Metric | Tons) | | | | |
| Africa | 918 | 1,006 | 1,057 | 1,081 | 1,091 | 1,094 | 1,095 | 1,093 | 1,091 | 1,089 | 1,085 |
| Argentina | 99 | 59 | 100 | 132 | 155 | 171 | 183 | 191 | 197 | 201 | 204 |
| Australia | 561 | 504 | 448 | 420 | 416 | 428 | 450 | 476 | 505 | 536 | 568 |
| India | -61 | -50 | -47 | -44 | -41 | -38 | -36 | -34 | -32 | -29 | -27 |
| Other Former Soviet Union | 281 | 261 | 267 | 264 | 258 | 253 | 249 | 246 | 244 | 243 | 243 |
| Other Latin America | -160 | -165 | -174 | -178 | -180 | -182 | -183 | -185 | -186 | -188 | -189 |
| Other Middle East | 222 | 178 | 173 | 174 | 174 | 173 | 174 | 174 | 174 | 174 | 174 |
| Pakistan | 15 | 114 | 108 | 125 | 133 | 132 | 126 | 117 | 107 | 93 | 76 |
| Turkey | -243 | -307 | -314 | -311 | -306 | -300 | -295 | -290 | -285 | -280 | -275 |
| United States | 1,372 | 1,784 | 1,830 | 1,816 | 1,797 | 1,773 | 1,755 | 1,746 | 1,739 | 1,730 | 1,720 |
| Uzbekistan | 891 | 942 | 960 | 955 | 950 | 947 | 945 | 944 | 944 | 946 | 948 |
| Total Net Exports | 3,895 | 4,326 | 4,409 | 4,433 | 4,447 | 4,453 | 4,463 | 4,479 | 4,498 | 4,513 | 4,526 |
| Net Importers | | | | | | | | | | | |
| Brazil | 433 | 497 | 492 | 500 | 520 | 542 | 564 | 583 | 601 | 616 | 628 |
| Canada | 76 | 78 | 79 | 80 | 80 | 81 | 82 | 84 | 85 | 86 | 87 |
| China | -235 | 77 | 176 | 211 | 212 | 196 | 168 | 136 | 98 | 56 | 10 |
| Eastern Europe | 249 | 249 | 244 | 237 | 231 | 226 | 222 | 219 | 216 | 212 | 208 |
| European Union | 590 | 533 | 522 | 506 | 492 | 476 | 463 | 450 | 436 | 421 | 403 |
| Japan | 273 | 277 | 279 | 279 | 277 | 275 | 272 | 268 | 263 | 258 | 252 |
| Mexico | 417 | 458 | 483 | 502 | 519 | 536 | 555 | 576 | 598 | 620 | 643 |
| Other Asia | 1,188 | 1,213 | 1,215 | 1,221 | 1,233 | 1,248 | 1,268 | 1,293 | 1,321 | 1,355 | 1,393 |
| Other Western Europe | 35 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Russia | 214 | 243 | 224 | 205 | 189 | 178 | 172 | 173 | 178 | 186 | 196 |
| South Korea | 341 | 343 | 337 | 333 | 331 | 330 | 330 | 330 | 330 | 330 | 329 |
| Taiwan | 314 | 323 | 323 | 324 | 326 | 328 | 330 | 333 | 336 | 338 | 340 |
| Residual | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Net Imports | 3,895 | 4,326 | 4,409 | 4,433 | 4,447 | 4,453 | 4,463 | 4,479 | 4,498 | 4,513 | 4,526 |
| Cotton Prices | | | | (| U.S. Dolla | ırs per Me | tric Ton) | | | | |
| Cotlook A Index * CIF Northern Europe | 1,044 | 1,093 | 1,154 | 1,216 | 1,269 | 1,320 | 1,361 | 1,398 | 1,438 | 1,486 | 1,540 |
| U.S. Farm Price | 1,013 | 1,036 | 1,056 | 1,103 | 1,150 | 1,198 | 1,239 | 1,274 | 1,310 | 1,352 | 1,399 |

^{*} 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. Source: Cotlook, Ltd., Liverpool, England.

World Sugar Trade

- Higher world sugar production and flat import demand are projected to decline the raw sugar price in 1999/00 by more than 15 percent, relative to the 1998/99 level. Sugar price is expected to rise steadily throughout the projection period, rising by approximately 75 percent, which still is below the 1996/97 level.
- World sugar beet and sugarcane area are likely to increase throughout the projection period as consumers respond to lower prices. Sugar production increases from 133 mmt in 1999/00 to 152 mmt in 2009/10, an increase of 15 percent, both through area and yield. During the projection period, sugar trade is projected to increase by more than 3 mmt.
- Brazilian sugarcane area is projected to decline slightly in 2000/01 in response to lower prices, reducing exports by 0.8 mmt. However, in the long run, cane area is projected to continue to expand, mainly because of tax benefits and lower land prices, which helps Brazil maintain its position as the world's largest supplier.
- Problems in the Brazilian alcohol sector appear to be reconciled, which will likely pull more cane into alcohol production, especially during the short term as oil prices rise.
- Per capita sugar consumption is projected to continue to grow as consumers switch to more basic foodstuffs and local economies remain tight. Long term, the industrial use of sugar, which depends on income growth, is projected to strengthen as the Brazilian economy recovers from the recent crisis.
- Sugar exports for Brazil are projected to return to 1999/00 levels by the end of the projection period.
- Growth in Australian sugarcane area during the next decade is projected to continue, although at a slower rate
 than the previous decade. Recent investment in the infrastructure of the industry will be slowed because of low
 world prices.
- Australia's sugar production in 1998/99 was greatly reduced due to adverse weather conditions and recovered dramatically in 1999/00. Sugar production will continue to increase through area expansion and yield growth.
- Extensive marketing efforts by the Australian sugar industry has help slow the per capita decline in consumption. However, sugar consumption will not keep pace with population growth, leading to larger supplies available for export. Exports are projected to increase 0.6 mmt during the decade, with the majority going to Asia.
- Thailand's sugar industry is recovering from weather difficulties suffered in 1997/98 that reduced exports. Recovery has been slowed by liquidity problems within the industry and strong export competition from Brazil.
- Thai production is projected to increase by 0.7 mmt, and raw sugar exports increase by 0.5 mmt.
- Slow growth in consumption and competition from high-fructose corn syrup (HFCS) in the soft drink and food industries results in a build-up of Thai ending stocks.
- Although the largest sugar exporter in the world in the 1980s, Cuba has been reduced to an average exporter since the early 1990s. During this period, sugarcane area has increased, but yield has decline by more than 50 percent, resulting in sugarcane production declining by more than 50 percent.
- Credit availability continues to be a problem for this sector and has been primarily responsible for the yield decline. The Cuban government is hoping to stimulate investment through privatization, and more importantly, the U.S. government has recently proposed to expand commercial ties with Cuba, ties that were severed 25 years ago.

- If these things materialize, there is every possibility for Cuba to return to its old position in world sugar market. For the projection period, Cuban sugar exports are projected to reverse their downward trend and increase by more than 0.5 mmt.
- Increased oil prices have reduced the governmental deficit shortage, allowing for increased social expenditures, which has helped decrease liquidity problems within the Mexican sugar sector.
- Mexico's sugar production is projected to increase 0.9 mmt through the next decade in response to expected
 export growth. The sequential decrease in tariff rate quota (TRQ) under the North American Free Trade Agreement (NAFTA) allows increased availability into the U.S. market.
- The FSU accounts for a large share of world sugar imports. FSU sugar production has been adversely affected since its economic liberalization in the early 1990s, and imports have increased to fill domestic shortfall.
- Sugar production is projected to increase by 0.5 mmt in the projection period, but remains 55 to 65 percent lower than the per-liberalization level. Thus, demand growth in the FSU will be met by additional imports, which are projected to increase from 5.4 to 5.95 mmt.
- Behind Brazil, India and China are the second and third largest sugar producers, respectively, in the world. Despite their status as large producers, they play a relatively insignificant role in the world sugar market. China is projected to be a small importer and India a small exporter of sugar during the projection period.

Sugar Trade

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|---------------------|--------|--------|--------|--------|-------------|------------|------------|--------|--------|--------|--------|
| Net Exporters | | | | | (Thousa | and Metric | Tons) | | | | |
| Argentina | 270 | 150 | 157 | 176 | 205 | 231 | 262 | 289 | 317 | 347 | 378 |
| Australia | 4,198 | 4,228 | 4,261 | 4,319 | 4,391 | 4,467 | 4,542 | 4,616 | 4,689 | 4,762 | 4,836 |
| Brazil | 9,500 | 8,734 | 8,895 | 9,001 | 9,106 | 9,269 | 9,388 | 9,442 | 9,464 | 9,461 | 9,490 |
| Columbia | 912 | 949 | 937 | 935 | 941 | 950 | 964 | 971 | 982 | 997 | 1,016 |
| Cuba | 2,500 | 2,600 | 2,683 | 2,768 | 2,850 | 2,927 | 3,005 | 3,084 | 3,164 | 3,247 | 3,324 |
| European Union | 4,286 | 3,733 | 3,788 | 3,800 | 3,813 | 3,846 | 3,884 | 3,927 | 3,973 | 4,022 | 4,075 |
| India | -150 | 100 | 186 | 259 | 247 | 196 | 164 | 138 | 140 | 116 | 100 |
| Mexico | 900 | 926 | 960 | 996 | 1,032 | 1,069 | 1,112 | 1,160 | 1,208 | 1,261 | 1,314 |
| Pakistan | 200 | 319 | 410 | 441 | 457 | 466 | 479 | 492 | 505 | 521 | 538 |
| South Africa | 1,270 | 1,250 | 1,253 | 1,273 | 1,295 | 1,322 | 1,352 | 1,383 | 1,416 | 1,451 | 1,486 |
| Thailand | 3,400 | 3,529 | 3,638 | 3,727 | 3,799 | 3,857 | 3,896 | 3,927 | 3,953 | 3,976 | 4,000 |
| Total Net Exports | 27,286 | 26,516 | 27,168 | 27,694 | 28,136 | 28,600 | 29,048 | 29,430 | 29,811 | 30,159 | 30,558 |
| Net Importers | | | | | | | | | | | |
| Algeria | 950 | 953 | 963 | 974 | 988 | 1,003 | 1,019 | 1,034 | 1,049 | 1,064 | 1,079 |
| Canada | 1,094 | 1,125 | 1,150 | 1,172 | 1,193 | 1,213 | 1,231 | 1,247 | 1,262 | 1,275 | 1,287 |
| China | 40 | 190 | 401 | 498 | 528 | 480 | 509 | 468 | 402 | 405 | 401 |
| Eastern Europe | 626 | 639 | 671 | 717 | 764 | 813 | 844 | 865 | 876 | 871 | 857 |
| Egypt | 765 | 758 | 902 | 841 | 836 | 844 | 854 | 865 | 878 | 889 | 901 |
| Former Soviet Union | 5,431 | 5,498 | 5,526 | 5,592 | 5,639 | 5,688 | 5,738 | 5,790 | 5,843 | 5,898 | 5,953 |
| Indonesia | 1,600 | 1,498 | 1,605 | 1,645 | 1,687 | 1,749 | 1,807 | 1,855 | 1,901 | 1,932 | 1,956 |
| Iran | 1,300 | 1,216 | 1,312 | 1,362 | 1,404 | 1,443 | 1,481 | 1,519 | 1,558 | 1,595 | 1,638 |
| Japan | 1,566 | 1,470 | 1,453 | 1,437 | 1,425 | 1,412 | 1,399 | 1,384 | 1,368 | 1,351 | 1,333 |
| Malaysia | 1,110 | 1,127 | 1,140 | 1,159 | 1,183 | 1,212 | 1,240 | 1,268 | 1,297 | 1,325 | 1,352 |
| Morocco | 450 | 484 | 489 | 493 | 494 | 503 | 517 | 532 | 547 | 561 | 578 |
| Peru | 190 | 358 | 372 | 384 | 392 | 399 | 407 | 419 | 431 | 443 | 455 |
| Philippines | 150 | 146 | 166 | 174 | 186 | 199 | 211 | 220 | 231 | 241 | 252 |
| South Korea | 1,180 | 1,187 | 1,292 | 1,312 | 1,340 | 1,376 | 1,409 | 1,440 | 1,471 | 1,496 | 1,520 |
| Turkey | -390 | 143 | 111 | 135 | 134 | 157 | 146 | 148 | 158 | 150 | 175 |
| United States | 1,442 | 1,402 | 1,428 | 1,589 | 1,689 | 1,737 | 1,798 | 1,872 | 1,960 | 2,049 | 2,136 |
| Venezuela | 69 | 53 | 65 | 69 | 64 | 59 | 52 | 47 | 43 | 36 | 30 |
| Rest of World | 5,304 | 4,865 | 4,716 | 4,731 | 4,785 | 4,905 | 4,979 | 5,049 | 5,128 | 5,169 | 5,249 |
| Total Net Imports | 27,286 | 26,516 | 27,168 | 27,694 | 28,136 | 28,600 | 29,048 | 29,430 | 29,811 | 30,159 | 30,558 |
| Sugar Prices | | | | | (U.S. Dolla | ars per Me | etric Ton) | | | | |
| FOB Caribbean Price | 135 | 141 | 168 | 189 | 205 | 209 | 215 | 220 | 224 | 232 | 240 |
| New York Spot | 487 | 484 | 484 | 486 | 487 | 489 | 490 | 491 | 493 | 495 | 496 |

World Beef and Veal Trade

- U.S. beef exports are projected to rise 5 percent annually over the next decade. In 2002, the United States becomes the world's largest beef exporter, as well as remaining the largest beef importer. By 2004, beef exports surpass imports, and U.S. net exports of beef are projected to increase throughout the remainder of the projection period.
- Contraction of Canadian cattle inventories and the imposition of anti-dumping duties reduced Canadian live cattle exports to the United States by 25 percent in 1999. Canadian live cattle exports to the United States are projected to remain below 1 million head for the next decade.
- Beef consumption in Mexico is projected to grow at an average rate of 1.9 percent annually over the next decade. Drought conditions in northern Mexico reduced Mexican cattle herds and beef production in 1999.
 Production and inventories are not expected to recover until 2003, making room for beef imports to rise sharply during the next three years.
- Weak demand and excess supplies prompted a more than 10 percent decline in Argentine beef prices in 1999. Beef production in Argentina is projected to decline slightly in 2000 before resuming growth at a rate of 1.3 percent annually.
- Argentina is expected to achieve FMD-free status in 2000, and Argentine beef exporters are projected to
 gradually make inroads into Asian markets, which have been previously closed to Argentina. Argentine beef
 exports are projected to rise 45.8 percent by 2009.
- The EU's elimination of the early processing scheme for calves in 1999 is expected to increase calf slaughter by 700,000 head in 2000. The average calf slaughter weight is expected rise gradually by 2.2 percent. Removal of the over-thirty-month scheme in 2001 allows cull cow slaughter to enter the beef marketing chain, increasing beef production by roughly 44 tmt in 2002.
- Implementation of the Berlin Accord reforms of the CAP lowers EU beef intervention prices in 2000 and 2001. Dramatic reductions in beef stocks in 1999 lower beef supplies in 2000 by 275 tmt, prompting beef prices to rise rather than fall.
- Russian beef imports drop more than 25 percent in 2000, reflecting the elimination of food aid supplied by the EU and the United States. Low productivity and quality feed shortages cause Russian beef output to decline an average of 3.5 percent annually until 2006. Beef consumption declines more slowly than production, causing beef imports to rise more than 8 percent annually until 2005.
- Both Wagyu and dairy beef production are expected to decline gradually in Japan, opening the door for more imported beef to satisfy growing consumption. Japanese beef imports reach 1.2 mmt by 2009.
- The liberalization of Korea's beef marketing system in 2001 is projected to increase beef imports, but levels are expected to remain below 300 tmt.
- Australia's live cattle exports to Asian countries dropped nearly 50 percent in 1998 due to the Asian financial crisis, but live cattle exports rebounded to more than 700,000 head in 1999. Australian beef exports remain stable at 1.2 mmt, but cattle exports are projected to increase to more than 1 million head by 2008.

Beef and Veal Trade

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---------------------------|-------|-------|-------|-------|-------------|------------|-----------|-------|-------|-------|-------|
| Net Exporters | | | | | (Thousa | nd Metric | Tons) | | | | |
| Argentina | 332 | 342 | 379 | 397 | 413 | 424 | 433 | 444 | 457 | 479 | 487 |
| Australia | 1,217 | 1,219 | 1,218 | 1,229 | 1,239 | 1,248 | 1,252 | 1,253 | 1,245 | 1,234 | 1,219 |
| Brazil | 445 | 461 | 469 | 474 | 478 | 478 | 476 | 474 | 474 | 480 | 488 |
| Canada | 215 | 215 | 213 | 216 | 229 | 240 | 246 | 247 | 250 | 265 | 279 |
| China - Mainland | 65 | 83 | 85 | 80 | 71 | 58 | 44 | 34 | 26 | 22 | 18 |
| European Union * | 596 | 442 | 450 | 462 | 465 | 464 | 459 | 455 | 452 | 453 | 456 |
| Hungary | 8 | 7 | 7 | 6 | 4 | 3 | 1 | -1 | -2 | -3 | -4 |
| Lithuania | 5 | 6 | 12 | 13 | 13 | 11 | 9 | 7 | 6 | 5 | 5 |
| New Zealand | 418 | 434 | 447 | 456 | 464 | 470 | 471 | 472 | 470 | 469 | 466 |
| Other Eastern Europe | 0 | 6 | 8 | 9 | 8 | 5 | 2 | -2 | -5 | -8 | -10 |
| Poland | 24 | 29 | 28 | 23 | 18 | 14 | 10 | 7 | 6 | 5 | 5 |
| Slovenia | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 1 |
| Thailand | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ukraine | 78 | 66 | 55 | 44 | 37 | 32 | 29 | 27 | 26 | 26 | 26 |
| United States | -228 | -277 | -210 | -103 | -39 | 74 | 205 | 325 | 417 | 440 | 468 |
| Total Net Exports | 3,177 | 3,037 | 3,164 | 3,309 | 3,404 | 3,525 | 3,641 | 3,745 | 3,823 | 3,868 | 3,906 |
| Net Importers | | | | | | | | | | | |
| Bulgaria | 22 | 19 | 19 | 20 | 21 | 23 | 25 | 27 | 29 | 30 | 31 |
| China - Hong Kong | 48 | 48 | 49 | 50 | 51 | 53 | 55 | 57 | 59 | 61 | 62 |
| Czech Republic | 0 | 3 | 7 | 11 | 14 | 17 | 19 | 21 | 23 | 23 | 22 |
| Estonia | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 |
| Indonesia | 12 | 14 | 16 | 18 | 20 | 23 | 26 | 30 | 33 | 35 | 37 |
| Japan | 972 | 966 | 981 | 998 | 1,013 | 1,040 | 1,072 | 1,110 | 1,141 | 1,153 | 1,157 |
| Latvia | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 |
| Mexico | 223 | 307 | 360 | 420 | 429 | 431 | 415 | 402 | 393 | 394 | 408 |
| Other Former Soviet Union | 113 | 92 | 114 | 115 | 106 | 97 | 88 | 81 | 73 | 85 | 101 |
| Philippines | 75 | 71 | 75 | 81 | 88 | 97 | 107 | 116 | 123 | 128 | 131 |
| Romania | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 5 | 5 | 5 |
| Russia | 495 | 364 | 408 | 455 | 499 | 534 | 554 | 562 | 564 | 561 | 558 |
| Slovakia | -2 | -1 | -1 | -1 | 0 | 0 | 0 | 1 | 1 | 1 | 2 |
| South Korea | 180 | 208 | 227 | 243 | 256 | 266 | 275 | 281 | 286 | 291 | 296 |
| Taiwan | 88 | 93 | 96 | 100 | 105 | 110 | 116 | 122 | 128 | 134 | 139 |
| Rest of World | 949 | 849 | 809 | 794 | 796 | 828 | 879 | 924 | 957 | 960 | 949 |
| Total Net Imports | 3,177 | 3,037 | 3,164 | 3,309 | 3,404 | 3,525 | 3,641 | 3,745 | 3,823 | 3,868 | 3,906 |
| Nebraska Direct | | | | | (U.S. Dolla | ırs per Me | tric Ton) | | | | |
| Fed Steer Price | 1,445 | 1,544 | 1,625 | 1,666 | 1,679 | 1,644 | 1,577 | 1,518 | 1,481 | 1,492 | 1,526 |

^{*} Includes meat and meat equivalent of live cattle trade.

World Pork Trade

- World pork output is projected to reach 83.4 mmt by 2009, an increase of 16.4 percent over 1999 levels. Nearly 69 percent of the total increase in world pork output is projected to occur in China.
- World pork trade is projected to grow 32 percent in the next decade. Low-cost feed and capital inputs coupled with high productivity enable the United States to capture 58 percent of the growth in international markets. The U.S. share of total pork trade increases from 9.3 percent in 1999 to 22.3 percent in 2009.
- New meat packing facilities in Canada siphon hogs away from live hog exports to the United States, decreasing Canadian live trade by nearly 50 percent in 2000. Consequently, Canadian pork exports increase by nearly 300 tmt over the next four years. As U.S. pork prices decline after 2003, Canadian pork exports contract but remain well above 1999 levels.
- In response to the outbreak of classical swine fever (CSF) in the Netherlands in 1997, pork production increased in several European countries in 1998. Dutch producers recovered quickly from the CSF outbreak, and EU pork output expanded an additional 1.8 percent in 1999, despite low producer prices.
- In 1998 more than 53 percent of the EU's pork exports were unsubsidized. As WTO limitations reduce subsidized exports, the high quality of EU pork enables unsubsidized shipments to grow, with total pork exports reaching 1.3 mmt by 2009.
- From its peak of 284 tmt in 1997, Polish pork exports fell 57 percent over the last two years as a consequence of the decline in Russian imports and competition from EU subsidized exports. Economic recovery in Russia and other Newly Independent States (NIS) countries boost the demand for Polish pork, but growth in domestic pork consumption keeps export growth to just below 1 percent annually.
- Following the onset of the economic crisis, Russian pork imports declined 125 tmt in 1998, and they shrank an additional 25 tmt in 1999. Low productivity and profitability in the Russian livestock sector continues to discourage producers from expanding inventories or production. Consumption is projected to decline more slowly than output, opening the door for a substantial increase in Russian pork imports during the next five years. Pork imports level off at roughly 575 tmt as production recovers in 2004.
- A 1.4 percent increase in Japanese pork production is projected to dampen imports in 2000. However, over the long run, Japanese pork production is expected to resume the downward trend of the 1990s. Pork imports rise an average of 3.2 percent each year after 2000, exceeding 1 mmt in 2008.
- Per capita pork consumption in Mainland China grows 22 percent in the next 10 years, reducing the supply of pork available for export after 2000. Consequently, Chinese pork exports contract 3 percent each year. Strong domestic demand for pork raises Chinese hog prices, reducing live hog exports to Hong Kong. Pork imports into Hong Kong grow by 6 tmt annually, compensating for the decline in live hog imports and reach 275 tmt in 2009.

Pork Trade

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---------------------------|-------|-------|-------|-------|------------|-----------|-----------|-------|-------|-------|-------|
| Net Exporters | | | | | (Thousa | nd Metric | Tons) | | | | |
| Australia | 0 | 1 | 0 | -1 | -2 | -3 | -4 | -5 | -6 | -6 | -8 |
| Brazil | 76 | 81 | 80 | 78 | 77 | 78 | 80 | 80 | 80 | 81 | 82 |
| Canada | 505 | 658 | 740 | 789 | 799 | 778 | 745 | 761 | 782 | 754 | 711 |
| China - Mainland | 92 | 99 | 92 | 85 | 79 | 73 | 68 | 63 | 58 | 55 | 51 |
| European Union | 1,250 | 1,075 | 1,087 | 1,109 | 1,114 | 1,136 | 1,175 | 1,172 | 1,146 | 1,205 | 1,260 |
| Hungary | 53 | 59 | 59 | 57 | 55 | 54 | 54 | 53 | 52 | 52 | 52 |
| Latvia | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 |
| Poland | 80 | 114 | 123 | 124 | 123 | 122 | 122 | 123 | 124 | 125 | 127 |
| Other Former Soviet Union | 12 | 16 | 19 | 21 | 25 | 27 | 30 | 33 | 35 | 31 | 26 |
| Thailand | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| United States | 204 | 178 | 205 | 282 | 380 | 466 | 491 | 501 | 533 | 575 | 651 |
| Total Net Exports | 2,277 | 2,286 | 2,409 | 2,547 | 2,654 | 2,736 | 2,765 | 2,786 | 2,807 | 2,876 | 2,956 |
| Net Imports | | | | | | | | | | | |
| Argentina | 65 | 65 | 65 | 66 | 66 | 66 | 66 | 67 | 67 | 67 | 67 |
| Bulgaria | 1 | -1 | -2 | -2 | -2 | -1 | -2 | -2 | -2 | -2 | -2 |
| China - Hong Kong | 158 | 155 | 163 | 172 | 180 | 189 | 196 | 203 | 210 | 215 | 221 |
| Czech Republic | 12 | 10 | 13 | 12 | 12 | 14 | 14 | 13 | 13 | 13 | 12 |
| Estonia | 3 | 0 | -1 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 |
| Indonesia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Japan | 814 | 795 | 824 | 860 | 896 | 935 | 946 | 959 | 971 | 1,011 | 1,059 |
| Lithuania | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mexico | 85 | 78 | 72 | 76 | 83 | 86 | 94 | 92 | 90 | 100 | 112 |
| New Zealand | 7 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 |
| Other Eastern Europe | 44 | 49 | 52 | 55 | 56 | 56 | 55 | 53 | 52 | 51 | 50 |
| Philippines | 13 | 12 | 14 | 15 | 15 | 15 | 15 | 16 | 17 | 17 | 17 |
| Romania | 15 | 13 | 16 | 20 | 23 | 25 | 25 | 25 | 25 | 26 | 25 |
| Russia | 349 | 389 | 456 | 520 | 559 | 574 | 573 | 570 | 571 | 572 | 576 |
| Slovakia | 32 | 33 | 35 | 38 | 39 | 41 | 41 | 42 | 44 | 44 | 45 |
| Slovenia | 16 | 16 | 17 | 18 | 19 | 20 | 20 | 21 | 22 | 22 | 22 |
| South Korea | 9 | 5 | 15 | 20 | 27 | 34 | 39 | 45 | 50 | 55 | 59 |
| Taiwan | 55 | 60 | 54 | 52 | 49 | 45 | 38 | 30 | 20 | 19 | 19 |
| Ukraine | 2 | 2 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 |
| Rest of World | 595 | 596 | 606 | 611 | 617 | 624 | 631 | 638 | 644 | 653 | 661 |
| Total Net Imports | 2,277 | 2,286 | 2,409 | 2,547 | 2,654 | 2,736 | 2,765 | 2,786 | 2,807 | 2,875 | 2,956 |
| Iowa-Southern Minnesota | | | | (| U.S. Dolla | rs per Me | tric Ton) | | | | |
| Barrow and Gilt Price | 750 | 842 | 934 | 960 | 943 | 895 | 855 | 931 | 1,001 | 951 | 884 |

World Poultry Trade

- Over the next 10 years, per capita poultry consumption is projected to rise an average of 1.5 percent annually. World poultry production will grow briskly at 2.4 percent each year, and poultry net exports increase 3.2 percent annually.
- Total poultry output increases 27 percent over the projection period. The United States remains the world's largest poultry producer, generating roughly 41 percent of world output.
- Broiler trade increases 37 percent from 1999 to 2009 for a total increase of more than 1.3 mmt. More than 37 percent of growth in net imports occurs in China and Japan, with additional imports by each country in excess of 250 tmt by 2009.
- U.S. exporters capture 83 percent of the increase in world broiler imports over the next decade, and Brazil secures an additional 188 tmt of exports. Abundant grain supplies and high productivity give both countries an advantage over competitors in Europe and East Asia.
- Mexican output of poultry meat climbs nearly 28 percent from 1999 to 2009; nevertheless, the complete liberalization of Mexico's broiler sector under NAFTA prompts broiler imports to rise by 50 tmt in 2003. Mexican net imports of broiler meat continue to increase 2.1 percent annually until 2009.
- Brazilian broiler exports expand an average of 2.4 percent annually; nevertheless, Brazil's share of total broiler trade declines from 19 percent in 1999 to 17.5 percent in 2009.
- EU broiler production was stagnant from 1997 to 1999; however, lower grain prices following the implementation of the Berlin Accord stimulate a 5 percent increase in broiler production from 1999 to 2002. EU broiler consumption and production grow an average of 1.1 percent annually over the projection period, limiting growth in EU broiler exports to 6.3 percent over the 10-year period.
- Russian broiler production began expanding in 1998, and output is projected to continue to increase at a rate of 2.9 percent annually throughout the next decade. As the Russian economy recovers, consumer purchases of broiler meat increase, and broiler imports gradually rise to 544 tmt by 2009.
- Chinese poultry output is projected to increase 64 percent over the next decade. Growth in poultry consumption, however, outstrips production and imports rise to more than 1 mmt by 2006. Hong Kong's net broiler imports also rise over the projection period, increasing a total of 99 tmt.
- The dramatic depreciation of the Thai Baht in 1997 and 1998 allowed Thailand's broiler exports to shoot up 47 percent in 1998. With a more gradual rate of depreciation, Thai broiler exports are projected to grow a modest 1.4 percent annually over the next decade.

Broiler Meat Trade

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---------------------------|-------|-------|-------|-------|-------------|------------|-----------|-------|-------|-------|-------|
| Net Exporters | _ | _ | _ | | (Thousa | nd Metric | Tons) | _ | _ | _ | |
| Australia | 12 | 11 | 10 | 9 | . 8 | 8 | 7 | 7 | 7 | 6 | 6 |
| Brazil | 700 | 737 | 753 | 765 | 778 | 797 | 816 | 835 | 853 | 870 | 888 |
| European Union | 538 | 529 | 538 | 545 | 548 | 552 | 556 | 562 | 567 | 572 | 577 |
| Hungary | 55 | 54 | 49 | 46 | 43 | 41 | 39 | 37 | 36 | 34 | 33 |
| Slovenia | 5 | 3 | 1 | 0 | -1 | -2 | -3 | -4 | -4 | -5 | -6 |
| Thailand | 273 | 292 | 294 | 294 | 294 | 296 | 299 | 302 | 306 | 309 | 312 |
| United States | 2,099 | 2,129 | 2,256 | 2,411 | 2,601 | 2,732 | 2,835 | 2,927 | 3,019 | 3,132 | 3,249 |
| Total Net Exports | 3,682 | 3,753 | 3,902 | 4,070 | 4,272 | 4,423 | 4,549 | 4,667 | 4,784 | 4,919 | 5,059 |
| Net Importers | | | | | | | | | | | |
| Argentina | 35 | 37 | 37 | 40 | 42 | 44 | 45 | 46 | 47 | 48 | 50 |
| Bulgaria | 9 | 9 | 9 | 10 | 11 | 11 | 11 | 12 | 12 | 12 | 13 |
| Canada | 16 | 16 | 19 | 25 | 28 | 29 | 30 | 32 | 34 | 36 | 37 |
| China - Mainland | 499 | 499 | 527 | 553 | 582 | 617 | 649 | 678 | 707 | 736 | 766 |
| China - Hong Kong | 288 | 291 | 299 | 310 | 323 | 336 | 347 | 358 | 367 | 377 | 387 |
| Czech Republic | 5 | 6 | 7 | 8 | 10 | 11 | 12 | 13 | 13 | 14 | 15 |
| Estonia | 16 | 17 | 17 | 18 | 19 | 20 | 20 | 21 | 22 | 23 | 23 |
| Indonesia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Japan | 527 | 556 | 590 | 626 | 656 | 683 | 702 | 721 | 739 | 761 | 784 |
| Latvia | 12 | 14 | 14 | 15 | 15 | 16 | 16 | 17 | 17 | 18 | 18 |
| Lithuania | 9 | 9 | 8 | 9 | 10 | 10 | 11 | 11 | 11 | 12 | 12 |
| Mexico | 128 | 130 | 134 | 140 | 192 | 197 | 200 | 203 | 206 | 210 | 213 |
| Other Eastern Europe | 43 | 45 | 46 | 47 | 47 | 47 | 47 | 46 | 46 | 46 | 47 |
| Other Former Soviet Union | 84 | 85 | 84 | 84 | 83 | 83 | 82 | 81 | 80 | 84 | 90 |
| Philippines | 22 | 21 | 22 | 24 | 26 | 27 | 28 | 30 | 31 | 32 | 33 |
| Poland | 18 | 19 | 21 | 23 | 26 | 28 | 29 | 30 | 31 | 32 | 33 |
| Romania | 29 | 36 | 41 | 47 | 51 | 54 | 57 | 59 | 61 | 63 | 65 |
| Russia | 495 | 482 | 496 | 510 | 518 | 523 | 526 | 527 | 528 | 530 | 533 |
| Saudi Arabia | 245 | 246 | 242 | 241 | 240 | 239 | 237 | 233 | 230 | 230 | 230 |
| Slovakia | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| South Korea | 38 | 26 | 32 | 39 | 47 | 56 | 63 | 71 | 80 | 90 | 101 |
| Taiwan | 18 | 17 | 19 | 20 | 21 | 23 | 24 | 26 | 27 | 29 | 30 |
| Ukraine | 34 | 38 | 41 | 44 | 47 | 48 | 49 | 51 | 52 | 53 | 55 |
| Rest of World | 1,112 | 1,155 | 1,194 | 1,236 | 1,278 | 1,320 | 1,361 | 1,400 | 1,440 | 1,480 | 1,520 |
| Total Net Imports | 3,682 | 3,753 | 3,902 | 4,070 | 4,272 | 4,423 | 4,549 | 4,667 | 4,784 | 4,919 | 5,059 |
| | | | | | (U.S. Dolla | ırs per Me | tric Ton) | | | | |
| U.S. 12-City Price | 1,281 | 1,260 | 1,265 | 1,256 | 1,243 | 1,233 | 1,227 | 1,229 | 1,231 | 1,230 | 1,230 |

World Dairy Trade

- International prices for all four major dairy products declined between 11 and 22 percent from 1998 to 1999. Butter, NFD, and whole milk powder (WMP) prices are projected to dip slightly in 2000 before gradually increasing toward 1998 levels. The FOB Northern European price for cheese rises 13 percent from 1999 to 2001 due to strong demand in Asia and Latin America.
- After stagnating in the 1990s, milk production in modeled countries increases 12.2 percent in the next decade, primarily through increased yield per cow. India, the United States, and Brazil account for 48 percent of the 47.4 mmt increase. Fluid milk consumption only rises 17.4 mmt, so most of the production increase is channeled into manufactured dairy products.
- Berlin Accord reforms in the dairy sector entail a 15 percent decline in butter and NFD intervention prices from 2005 to 2007. Simultaneously, the milk quota will be raised 1.5 percent in all member countries. Increasing milk production, while lowering market support, causes EU butter and NFD prices to fall 12.7 and 10.7 percent, respectively, from 2004 to 2008. Likewise, rising output prompts cheese and WMP prices to decline by 8 and 9.6 percent, respectively.
- Butter production is projected to increase 21 percent by 2009, with 80 percent of that growth occurring in India. Production of NFD and WMP grows more modestly, rising 6.7 and 18.1 percent, respectively.
- Russian butter imports fell to 70 tmt in 1999. As the Russian economy strengthens, butter imports will recover slightly and stabilize at 110 tmt. Butter imports by the rest of the world (ROW), which includes most of Asia, Africa, and Latin America, grow 2 percent annually.
- More than 90 percent of butter exports were supplied by Australia, New Zealand, and the EU in 1999. Moderate growth in North American and Eastern European butter exports reduces the share of the major three exporters to 85 percent in 2009.
- Economic recovery in Eastern Europe, Brazil, and Asia, along with stable growth in developed countries, spurs a 1 to 2 percent annual increase in per capita cheese consumption in most countries. Total output of cheese is projected to rise 2.6 mmt.
- Rising demand coupled with stagnant domestic production prompts a 43 percent increase in Japanese cheese imports over the projection period. Mexican cheese imports grow nearly fivefold to 120 tmt by 2009, while Russian imports rise slowly to 80 tmt.
- Cheese exports from Australia and New Zealand grow an average of 2.9 percent annually, allowing these countries to capture 43 percent of the total growth in exports. Argentine cheese exports increase 378 percent, reaching 96 tmt by 2009.
- Russian NFD imports rose sharply to 90 tmt in 1999, causing Russia to become a net importer of NFD. Mexican NFD imports are expected to grow 37 percent over the projection period
- NFD exports from Canada and the United States are projected to decline 28 tmt and 35 tmt, respectively, by 2009. The EU, Australia, and Poland expand NFD exports, compensating for the decline in North American exports, as well as 40 percent of the additional growth in NFD trade.
- WMP trade is projected to grow 17 percent over the next decade. Argentina, Australia, and New Zealand are able to supply the bulk of the increase in WMP exports.

Dairy Product Trade

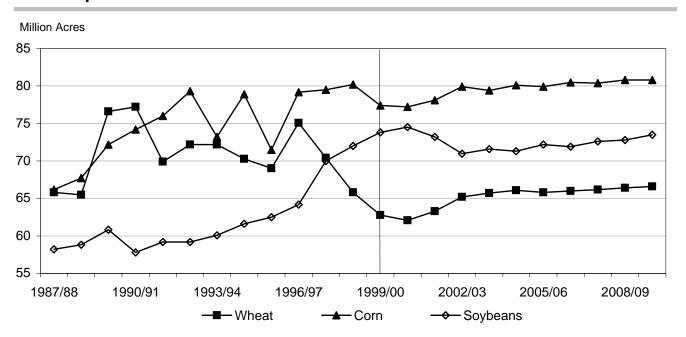
| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-------------------|------|------|------|------|---------|-----------|-------|------|------|------|-------|
| Butter | | | | | | | | | | | |
| Net Exporters | | | | | (Thousa | nd Metric | Tons) | | | | |
| Argentina | 8 | 6 | 4 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 10 |
| Australia | 88 | 105 | 109 | 114 | 119 | 123 | 127 | 131 | 136 | 143 | 150 |
| Canada | 6 | 7 | 5 | 5 | 7 | 8 | 8 | 8 | 8 | 7 | 7 |
| Czech Republic | 28 | 27 | 28 | 28 | 29 | 30 | 30 | 30 | 30 | 31 | 31 |
| European Union | 101 | 92 | 100 | 100 | 98 | 100 | 107 | 113 | 116 | 115 | 114 |
| Hungary | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 |
| New Zealand | 279 | 326 | 324 | 328 | 328 | 328 | 328 | 328 | 327 | 328 | 328 |
| Poland | 2 | -1 | 2 | 1 | 0 | 2 | 4 | 6 | 8 | 11 | 15 |
| Ukraine | 9 | 9 | 10 | 9 | 10 | 10 | 10 | 11 | 11 | 11 | 11 |
| United States | -7 | -8 | -4 | -4 | -2 | 1 | 2 | 3 | 5 | 6 | 7 |
| Total Net Exports | 516 | 564 | 580 | 588 | 597 | 608 | 624 | 639 | 652 | 663 | 676 |
| Net Importers | | | | | | | | | | | |
| Brazil | 11 | 10 | 10 | 10 | 9 | 10 | 10 | 10 | 9 | 9 | 8 |
| India | 4 | 2 | 3 | -2 | 1 | 9 | 21 | 21 | 19 | 17 | 19 |
| Japan | 0 | 2 | 4 | 6 | 7 | 8 | 9 | 9 | 9 | 10 | 10 |
| Mexico | 23 | 21 | 17 | 15 | 13 | 12 | 10 | 9 | 8 | 6 | 5 |
| Romania | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| Russia | 62 | 78 | 95 | 102 | 103 | 99 | 95 | 97 | 98 | 100 | 101 |
| Switzerland | 5 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 1 |
| Rest of World | 410 | 447 | 446 | 453 | 460 | 468 | 476 | 490 | 505 | 518 | 529 |
| Total Net Imports | 516 | 564 | 580 | 588 | 597 | 608 | 624 | 639 | 652 | 663 | 676 |
| Cheese | | | | | | | | | | | |
| Net Exporters | | | | | | | | | | | |
| Argentina | 14 | 21 | 23 | 26 | 35 | 43 | 51 | 59 | 66 | 78 | 90 |
| Australia | 136 | 132 | 130 | 138 | 142 | 149 | 154 | 159 | 165 | 171 | 176 |
| Czech Republic | 3 | 4 | 3 | 1 | -2 | -3 | -4 | -4 | -5 | -6 | -6 |
| European Union | 293 | 308 | 310 | 310 | 309 | 307 | 319 | 336 | 347 | 349 | 351 |
| Hungary | 8 | 13 | 15 | 15 | 16 | 16 | 16 | 16 | 15 | 15 | 16 |
| New Zealand | 240 | 246 | 268 | 282 | 290 | 299 | 305 | 309 | 314 | 319 | 323 |
| Poland | 14 | 16 | 12 | 10 | 8 | 6 | 5 | 5 | 6 | 5 | 4 |
| Romania | 0 | -1 | -2 | -3 | -4 | -5 | -5 | -6 | -7 | -7 | -8 |
| Switzerland | 30 | 36 | 37 | 38 | 40 | 41 | 43 | 44 | 45 | 47 | 49 |
| Ukraine | 2 | -1 | -2 | -2 | 0 | 3 | 6 | 8 | 10 | 12 | 13 |
| Total Net Exports | 739 | 775 | 795 | 816 | 834 | 857 | 890 | 926 | 957 | 984 | 1,008 |
| Net Importers | | | | | | | | | | | |
| Brazil | 20 | 15 | 14 | 11 | 7 | 9 | 10 | 12 | 9 | 5 | -1 |
| Canada | 0 | -1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Japan | 185 | 188 | 193 | 202 | 210 | 217 | 226 | 235 | 245 | 255 | 264 |
| Mexico | 25 | 35 | 35 | 44 | 55 | 63 | 75 | 86 | 98 | 109 | 120 |
| Russia | 40 | 42 | 52 | 54 | 53 | 53 | 57 | 62 | 67 | 72 | 77 |
| United States | 121 | 122 | 123 | 123 | 123 | 124 | 124 | 124 | 125 | 125 | 125 |
| Rest of World | 349 | 374 | 378 | 382 | 385 | 391 | 398 | 406 | 412 | 417 | 422 |
| Total Net Imports | 739 | 775 | 795 | 816 | 834 | 857 | 890 | 926 | 957 | 984 | 1,008 |

Dairy Product Trade (continued)

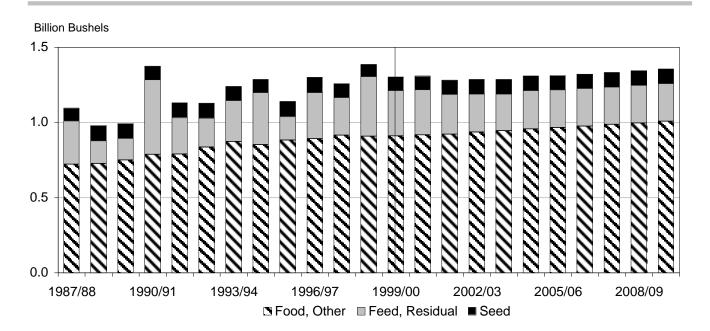
| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------------------|-------|-------|-------|-------|-------------|------------|------------|-------|-------|-------|-------|
| Nonfat Dry Milk | | | | | | | | | | | |
| Net Exporters | | | | | (Thousa | ind Metric | Tons) | | | | |
| Argentina | 22 | 27 | 24 | 25 | 27 | 28 | 30 | 31 | 33 | 35 | 36 |
| Australia | 236 | 215 | 221 | 226 | 234 | 240 | 247 | 255 | 264 | 275 | 287 |
| Canada | 40 | 32 | 26 | 23 | 23 | 23 | 21 | 18 | 16 | 14 | 11 |
| Czech Republic | 26 | 24 | 25 | 26 | 29 | 30 | 30 | 31 | 32 | 34 | 35 |
| European Union | 167 | 167 | 173 | 181 | 190 | 194 | 201 | 204 | 204 | 197 | 190 |
| Hungary | -1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| India | 1 | 7 | 11 | 12 | 12 | 13 | 14 | 13 | 12 | 12 | 11 |
| New Zealand | 205 | 214 | 213 | 217 | 218 | 217 | 216 | 215 | 215 | 215 | 216 |
| Poland | 91 | 92 | 105 | 94 | 93 | 96 | 100 | 105 | 111 | 117 | 124 |
| Switzerland | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| Ukraine | 15 | 15 | 15 | 15 | 16 | 16 | 17 | 18 | 19 | 19 | 20 |
| United States | 104 | 107 | 101 | 98 | 68 | 68 | 68 | 68 | 67 | 67 | 67 |
| Total Net Exports | 910 | 902 | 916 | 921 | 915 | 929 | 948 | 964 | 979 | 991 | 1,004 |
| Net Importers | | | | | | | | | | | |
| Brazil | 53 | 41 | 42 | 40 | 36 | 36 | 36 | 35 | 34 | 31 | 29 |
| Japan | 50 | 59 | 70 | 75 | 77 | 77 | 76 | 74 | 72 | 70 | 70 |
| Mexico | 140 | 145 | 148 | 151 | 155 | 161 | 167 | 173 | 180 | 186 | 193 |
| Romania | 12 | 12 | 13 | 13 | 14 | 14 | 14 | 15 | 15 | 15 | 15 |
| Russia | 88 | 84 | 85 | 86 | 80 | 74 | 68 | 64 | 61 | 59 | 56 |
| Rest of World | 567 | 560 | 557 | 556 | 553 | 567 | 586 | 603 | 618 | 630 | 641 |
| Total Net Imports | 910 | 902 | 916 | 921 | 915 | 929 | 948 | 964 | 979 | 991 | 1,004 |
| Whole Milk Powder | | | | | | | | | | | |
| Net Exporters | | | | | | | | | | | |
| Argentina | 125 | 135 | 136 | 138 | 141 | 146 | 152 | 158 | 164 | 170 | 176 |
| Australia | 137 | 141 | 139 | 140 | 143 | 148 | 153 | 159 | 165 | 172 | 178 |
| European Union | 517 | 513 | 503 | 505 | 507 | 508 | 511 | 517 | 518 | 518 | 519 |
| New Zealand | 362 | 358 | 388 | 402 | 416 | 427 | 435 | 443 | 450 | 457 | 463 |
| Total Net Exports | 1,141 | 1,148 | 1,166 | 1,185 | 1,206 | 1,228 | 1,251 | 1,276 | 1,298 | 1,317 | 1,336 |
| Net Importers | | | | | | | | | | | |
| Brazil | 121 | 96 | 111 | 115 | 120 | 117 | 114 | 111 | 109 | 107 | 106 |
| Rest of World | 1,020 | 1,053 | 1,055 | 1,070 | 1,086 | 1,111 | 1,137 | 1,165 | 1,189 | 1,210 | 1,230 |
| Total Net Imports | 1,141 | 1,148 | 1,166 | 1,185 | 1,206 | 1,228 | 1,251 | 1,276 | 1,298 | 1,317 | 1,336 |
| FOB Price, Northern Europe | | | | | (U.S. Dolla | ars per Me | etric Ton\ | | | | |
| Butter | 1,435 | 1,421 | 1,534 | 1,535 | 1,545 | 1,558 | 1,570 | 1,550 | 1,545 | 1,550 | 1,561 |
| Cheese | 1,909 | 2,075 | 2,164 | 2,172 | 2,193 | 2,185 | 2,172 | 2,151 | 2,160 | 2,179 | 2,196 |
| Nonfat Dry Milk | 1,301 | 1,311 | 1,362 | 1,396 | 1,442 | 1,429 | 1,423 | 1,429 | 1,447 | 1,476 | 1,501 |
| Whole Milk Powder | 1,564 | 1,558 | 1,618 | 1,629 | 1,646 | 1,429 | 1,423 | 1,429 | 1,662 | 1,680 | 1,697 |
| VALIDIG IVIIIK FOWAGI | 1,304 | 1,556 | 1,010 | 1,029 | 1,040 | 1,040 | 1,000 | 1,000 | 1,002 | 1,000 | 1,037 |

U.S. CROPS

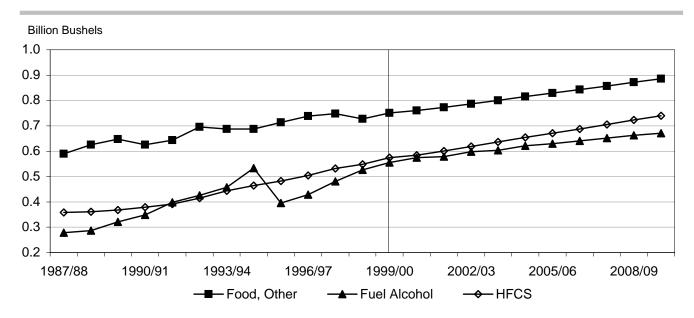
U.S. Crop Planted Area



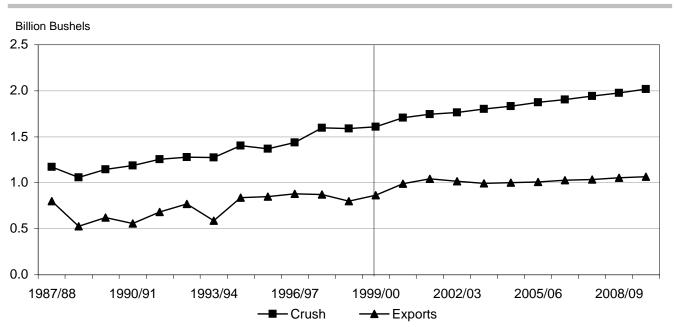
U.S. Wheat Domestic Use



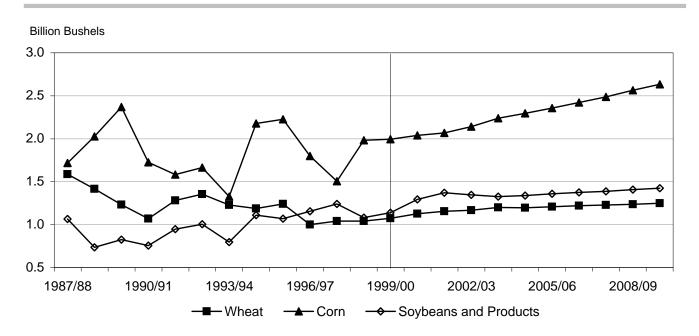
U.S. Corn
Food and Industrial Use



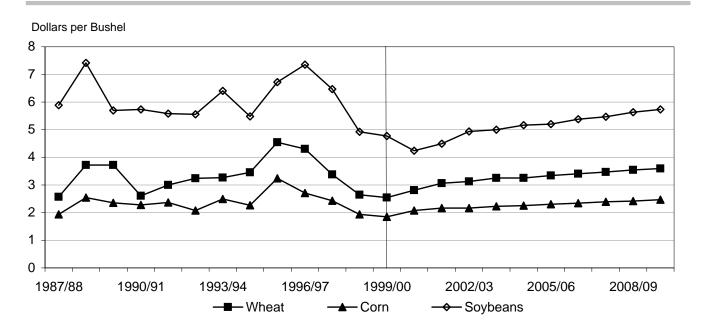
U.S. Soybean Utilization



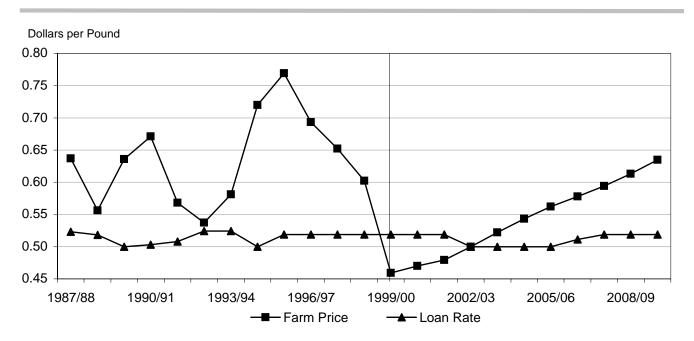
U.S. Crop Exports



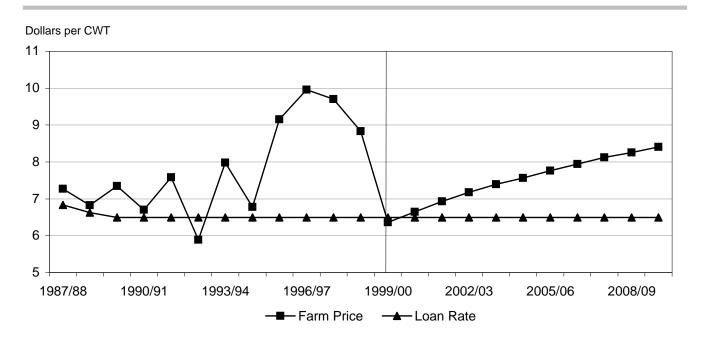
U.S. Crop Prices



U.S. Cotton Prices



U.S. Rice Prices



U.S. Wheat

- Wheat planted area fell to 62.8 million acres in 1999/00. A further decline, down to 62.1 million acres, is expected for the 2000/01 crop. By 2009/10, wheat area planted is projected to grow to 66.6 million acres as prices recover.
- Wheat area enrolled in the Conservation Reserve Program (CRP) totaled 10 million acres for the 1997/98 marketing year. As contracts expired in calendar year 1998, the total wheat enrollment fell to 9.5 million acres and by 1999 hit 9.3 million acres. New enrollment starts with the 1999/00 marketing year, and by the final year of the baseline, wheat CRP area is 11 million acres.
- A new record was set in 1998/99 for wheat yields, as the national average hit 43.2 bushels per acre. For 1999/00, yields decreased to 42.7 bushels per acre. For the 2000 crop year, a trend-line yield of 40 bushels per acre is assumed. Longer term, yields rise with genetic improvement to 42.2 bushels per acre by 2009/10.
- Increased beginning stocks pushed 1999 wheat supplies sharply higher, surpassing 3.3 billion bushels. (Total all-wheat production hit 2.3 billion bushels.) Assuming trend yields, lower production will occur in 2000 due to substantial declines in area.
- Wheat feed and residual use is projected to decrease to 301 million bushels in 1999/00. An ample supply of feed wheat keeps feed use level in 2000. Feed use falls in the last half of the baseline as wheat prices increase, and bottoms out at 249 million bushels in the 2006/07 crop year.
- Domestic food use is projected to continue to increase on a per-capita basis. Food use accounts for more than 1 billion bushels of disappearance by the 2009 crop year.
- U.S. wheat exports for 1999/00 are projected to increase to 1.1 billion bushels, and further increases are anticipated in 2000/01. Action by the EU impacts wheat exports greatly during the baseline. Exports build to 1.2 billion bushels by 2003. After that increase, exports by the EU dampen U.S. trade.
- Ending stocks of wheat for 1999/00 increase to 972 million bushels. Stocks decline in each year of the baseline, hitting 642 million bushels at the end of the 2009 crop year.
- Increased supplies and ending stocks pressured prices lower again in 1999. As total supply has been above 3 billion bushels since the 1996/97 crop year, season-average farm prices have fallen. The season-average farm price for 1999/00 is projected to be \$2.55 per bushel. Prices are projected to strengthen in 2000/01 due to reduced area. By the final year of the baseline, the U.S. wheat price rises to \$3.60 per bushel.
- Market net returns over variable production costs rise slowly throughout the projection period, as increases in market prices and yield are nearly offset by cost increases. In 1999/00, market net returns plus LDPs stand at \$44.09 per acre. By the end of the baseline, wheat returns rise to \$62.17 per acre.

U.S. Wheat Supply and Utilization

| o.o. Timeat capp | ny ana | • t=c | | | | | | | | | |
|-------------------------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
| Area | | | | | (Mi | Ilion Acres | s) | | | | |
| Contract Area | 78.5 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 |
| CRP Idled | 9.3 | 9.7 | 10.1 | 10.4 | 10.7 | 10.9 | 11.0 | 11.2 | 11.2 | 11.2 | 11.0 |
| Planted Area | 62.8 | 62.1 | 63.3 | 65.2 | 65.7 | 66.1 | 65.8 | 66.0 | 66.2 | 66.4 | 66.6 |
| Harvested Area | 53.9 | 54.9 | 56.1 | 57.7 | 58.2 | 58.6 | 58.3 | 58.5 | 58.7 | 58.8 | 59.0 |
| Yield | | | | | (Bush | nels per Ad | cre) | | | | |
| Actual | 42.7 | 40.0 | 40.2 | 40.4 | 40.7 | 41.0 | 41.2 | 41.5 | 41.7 | 42.0 | 42.2 |
| Program | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 |
| | | | | | (Mill | ion Bushe | ls) | | | | |
| Supply | 3,348 | 3,267 | 3,184 | 3,182 | 3,199 | 3,214 | 3,215 | 3,221 | 3,228 | 3,236 | 3,247 |
| Beginning Stocks | 946 | 972 | 831 | 746 | 728 | 713 | 708 | 693 | 679 | 666 | 654 |
| Production | 2,302 | 2,195 | 2,253 | 2,336 | 2,370 | 2,401 | 2,407 | 2,427 | 2,449 | 2,470 | 2,493 |
| Imports | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Domestic Use | 1,302 | 1,309 | 1,283 | 1,286 | 1,286 | 1,309 | 1,312 | 1,322 | 1,333 | 1,343 | 1,356 |
| Feed, Residual | 301 | 299 | 265 | 254 | 243 | 256 | 250 | 249 | 249 | 249 | 251 |
| Seed | 91 | 92 | 95 | 96 | 97 | 96 | 97 | 97 | 97 | 98 | 98 |
| Food, Other | 910 | 918 | 922 | 936 | 946 | 957 | 966 | 976 | 986 | 997 | 1,008 |
| Exports | 1,074 | 1,128 | 1,155 | 1,168 | 1,200 | 1,197 | 1,210 | 1,219 | 1,229 | 1,239 | 1,249 |
| Total Use | 2,376 | 2,436 | 2,437 | 2,454 | 2,485 | 2,506 | 2,522 | 2,541 | 2,562 | 2,582 | 2,605 |
| Ending Stocks | 972 | 831 | 746 | 728 | 713 | 708 | 693 | 679 | 666 | 654 | 642 |
| FOR, Special Program | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CCC Inventory | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 9-Month Loan | 65 | 92 | 82 | 65 | 58 | 70 | 67 | 64 | 61 | 58 | 56 |
| "Free" Stocks | 808 | 639 | 564 | 563 | 555 | 539 | 526 | 516 | 506 | 495 | 485 |
| Prices and Returns | | | | | (U | .S. Dollars |) | | | | |
| Farm Price/bu. | 2.55 | 2.81 | 3.06 | 3.13 | 3.25 | 3.25 | 3.34 | 3.41 | 3.47 | 3.54 | 3.60 |
| Loan Rate/bu. | 2.58 | 2.58 | 2.58 | 2.41 | 2.41 | 2.55 | 2.58 | 2.58 | 2.58 | 2.58 | 2.58 |
| FOB Gulf Price/mt | 115.76 | 126.95 | 138.00 | 141.05 | 146.23 | 146.33 | 149.93 | 152.85 | 155.81 | 158.48 | 161.34 |
| Contract Payment/bu. | 1.27 | 0.59 | 0.47 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 |
| Variable Expenses/a. | 76.97 | 80.32 | 80.69 | 81.86 | 82.83 | 83.94 | 85.07 | 86.10 | 87.32 | 88.60 | 89.97 |
| Gross Market Returns/a. | 108.76 | 112.21 | 122.98 | 126.67 | 132.43 | 133.38 | 137.65 | 141.28 | 145.00 | 148.46 | 152.14 |
| LDP Returns/a. | 12.31 | 2.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mkt+LDP Net Returns/a. | 44.09 | 34.09 | 42.29 | 44.82 | 49.60 | 49.44 | 52.57 | 55.18 | 57.68 | 59.86 | 62.17 |
| Contract Payment/a. | 37.18 | 17.17 | 13.83 | 13.42 | 13.43 | 13.43 | 13.43 | 13.43 | 13.43 | 13.43 | 13.43 |

U.S. Corn

- U.S. corn farmers decreased planted area to 77.4 million acres in 1999/00. Corn area is expected to fall again in the spring of 2000 to 77.2 million acres. Corn is expected to gain from worldwide food demand during the baseline; by the 2009/10 crop year, FAPRI projects 80.8 million acres will be planted to corn. Corn's share of planted area in the United States increases during the baseline.
- Corn area enrolled in the CRP totaled 3.6 million acres for the 1997/98 marketing year. As contracts expired in calendar year 1998, the total corn enrollment fell to 3.1 million acres. For the 1999 crop year, CRP area had fallen to 2.9 million acres. By the final year of the baseline, corn CRP area is projected to be 3.5 million acres.
- The national average corn yield fell to 133.8 bushels per acre in 1999/00. Assuming normal weather, corn yields come back down to the trend-line level of 133.1 bushels per acre in 2000/01. Corn yield is expected to grow at a rate of 1.3 percent per year. This growth rate assumes technological progress that can generate an increase of 1.8 bushels per acre per year.
- Higher feed use is projected for the 1999/00 marketing year at 5.6 billion bushels. Feed usage decreases slightly in 2000/01, but steady growth in several livestock categories and stable crop prices cause feed usage to rise during the baseline period, reaching 6.2 billion bushels in 2009/10.
- Corn used for fuel alcohol production is projected to require 671 million bushels by 2009/10, up from the projected 1999/00 number of 555 million bushels. Federal tax exemptions for ethanol are assumed to continue at the current level of \$0.54 per gallon. The outlook for ethanol is surrounded with uncertainty given recent proposed changes by Environmental Protection Agency (EPA) regarding the use of Methyl Tertiary Butyl Ether (MTBE), ethanol's major competitor. Growth in other domestic uses of corn, such as high fructose corn syrup, is modest.
- U.S. corn exports in 1999/00 are projected to increase to 2 billion bushels. Improvements in Asian economies and the decline in U.S. prices increase the quantity of U.S. corn exported. Projected exports rise markedly throughout the remainder of the baseline. By the last year, U.S. corn exports are more than 2.6 billion bushels.
- Corn ending stocks for the 1999/00 marketing year are projected fall to 1.7 million bushels. With a return to normal weather, ending stocks fall, slowly reaching 1.4 billion bushels by 2009/10. The quantity of stocks in the nine-month loan program at the end of each marketing year is modest, although higher levels during a given marketing year are possible.
- Abundant supplies and relatively high levels of stocks in 1999/00 pressure corn prices. The farm price is projected to average \$1.85 per bushel. For 2000/01, the farm price is expected to rise to \$2.07 per bushel, as fewer acres are planted and exports rise.
- Market transition payments average \$0.26 per bushel during the baseline. On a per-acre basis, the payments average nearly \$24 during the baseline period. Market net returns over variable costs are projected to rise during the baseline. Increases in yield offset higher production costs in each year. As prices strengthen, the returns rise.

U.S. Corn Supply and Utilization

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-------------------------|--------|--------|--------|--------|--------|--------------|--------|--------|--------|--------|--------|
| Area | | | | | (M | illion Acres | s) | | | | |
| Contract Area | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 |
| CRP Idled | 2.9 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.5 | 3.6 | 3.6 | 3.6 | 3.5 |
| Planted Area | 77.4 | 77.2 | 78.1 | 79.9 | 79.4 | 80.1 | 79.9 | 80.5 | 80.4 | 80.8 | 80.8 |
| Harvested Area | 70.5 | 70.7 | 71.5 | 73.2 | 72.9 | 73.6 | 73.4 | 74.1 | 74.0 | 74.4 | 74.5 |
| Yield | | | | | (Busl | hels per A | cre) | | | | |
| Actual | 133.8 | 133.1 | 134.9 | 136.5 | 138.5 | 140.3 | 142.2 | 143.9 | 145.8 | 147.5 | 149.3 |
| Program | 102.6 | 102.6 | 102.6 | 102.6 | 102.6 | 102.6 | 102.6 | 102.6 | 102.6 | 102.6 | 102.6 |
| | | | | | (Mill | ion Bushe | ls) | | | | |
| Supply | 11,239 | 11,126 | 11,190 | 11,483 | 11,602 | 11,785 | 11,914 | 12,110 | 12,239 | 12,410 | 12,546 |
| Beginning Stocks | 1,787 | 1,708 | 1,527 | 1,471 | 1,491 | 1,450 | 1,463 | 1,440 | 1,438 | 1,416 | 1,413 |
| Production | 9,437 | 9,407 | 9,653 | 10,002 | 10,102 | 10,325 | 10,441 | 10,660 | 10,792 | 10,983 | 11,123 |
| Imports | 15 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Domestic Use | 7,535 | 7,558 | 7,651 | 7,852 | 7,916 | 8,025 | 8,116 | 8,250 | 8,335 | 8,433 | 8,520 |
| Feed, Residual | 5,635 | 5,620 | 5,678 | 5,827 | 5,855 | 5,915 | 5,967 | 6,056 | 6,101 | 6,154 | 6,202 |
| Fuel Alcohol | 555 | 575 | 578 | 598 | 603 | 621 | 629 | 641 | 651 | 663 | 671 |
| HFCS | 575 | 584 | 601 | 619 | 636 | 654 | 671 | 688 | 705 | 723 | 740 |
| Seed | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 21 |
| Food, Other | 751 | 760 | 773 | 787 | 800 | 815 | 829 | 843 | 857 | 872 | 886 |
| Exports | 1,996 | 2,041 | 2,068 | 2,141 | 2,237 | 2,296 | 2,358 | 2,422 | 2,488 | 2,564 | 2,634 |
| Total Use | 9,531 | 9,599 | 9,718 | 9,992 | 10,153 | 10,322 | 10,474 | 10,672 | 10,823 | 10,997 | 11,154 |
| Ending Stocks | 1,708 | 1,527 | 1,471 | 1,491 | 1,450 | 1,463 | 1,440 | 1,438 | 1,416 | 1,413 | 1,392 |
| FOR, Special Program | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CCC Inventory | 15 | 15 | 15 | 15 | 12 | 9 | 6 | 3 | 0 | 0 | 0 |
| 9-Month Loan | 350 | 378 | 354 | 288 | 258 | 291 | 294 | 299 | 288 | 283 | 269 |
| "Free" Stocks | 1,343 | 1,134 | 1,103 | 1,187 | 1,180 | 1,163 | 1,140 | 1,136 | 1,128 | 1,129 | 1,123 |
| Prices and Returns | | | | | ` | .S. Dollars | , | | | | |
| Farm Price/bu. | 1.85 | 2.07 | 2.16 | 2.16 | 2.23 | 2.25 | 2.30 | 2.34 | 2.39 | 2.42 | 2.47 |
| Loan Rate/bu. | 1.89 | 1.89 | 1.89 | 1.75 | 1.75 | 1.81 | 1.86 | 1.88 | 1.89 | 1.89 | 1.89 |
| FOB Gulf Price/mt | 87.97 | 97.31 | 101.39 | 101.24 | 104.46 | 104.95 | 107.41 | 108.88 | 110.93 | 112.28 | 114.51 |
| Contract Payment/bu. | 0.73 | 0.33 | 0.27 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 |
| Variable Expenses/a. | 170.74 | 176.17 | 177.57 | 180.52 | 183.23 | 186.20 | 189.33 | 192.08 | 195.19 | 198.36 | 201.75 |
| Gross Market Returns/a. | 247.39 | 275.16 | 291.75 | 294.79 | 309.48 | 315.06 | 327.47 | 336.46 | 347.72 | 356.50 | 368.58 |
| LDP Returns/a. | 30.22 | 3.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mkt+LDP Net Returns/a. | 106.86 | 102.94 | 114.19 | 114.27 | 126.25 | 128.86 | 138.14 | 144.37 | 152.54 | 158.14 | 166.84 |
| Contract Payment/a. | 63.31 | 29.10 | 23.43 | 22.74 | 22.74 | 22.74 | 22.74 | 22.74 | 22.74 | 22.74 | 22.74 |

U.S. Sorghum

- Reduced area in the Southern Plains states pushed total sorghum planted area lower in 1999, down to 9.3 million acres. Sorghum planted area falls to 8.9 million acres by 2009/10 as sorghum loses area to other crops.
- Sorghum area enrolled in the CRP totaled 2.3 million acres for the 1997/98 marketing year. As contracts expired in calendar year 1998, the total sorghum enrollment fell to 2.2 million acres. For the 1999 crop year, 2.1 million acres of former sorghum land were enrolled in the program. By the final year of the baseline, sorghum CRP area grows to 2.5 million acres, reducing acres planted.
- The U.S. average sorghum yield increased to 69.7 bushels per acre in 1999/00. Sorghum yield is projected to reach 74.8 bushels per acre by 2009/10. Genetic improvement increases average sorghum yield 0.6 bushels per acre per year, an annual growth rate of 0.9 percent per year.
- Sorghum feed use is projected to be 340 million bushels in 1999/00. The falling price of sorghum and rising feedlot placements explain the increase in feed use. Feed use of sorghum falls during the baseline, hitting 311 million bushels in 2008/09.
- Exports of U.S. sorghum in 1999/00 are projected to be 210 million bushels. The volume of exports grows in each year of the baseline, reaching 241 million bushels by 2009/10. Worldwide demand for feed grains increases sorghum exports. Potential problems with importing countries accepting genetically modified feed grains could aid grain sorghum exports, as grain sorghum is not currently genetically modified.
- Sorghum ending stocks decreased in 1999/00 to 55 million bushels, down from 65 million bushels the previous year. The FAIR Act eliminated the Farmer Owned Reserve (FOR) program, and the market is the only holder of stocks in the baseline. With a return to normal weather, ending stocks are generally expected to remain below 60 million bushels during the baseline.
- Despite the decline in ending stocks and rise in export volume in 1999/00, the season-average sorghum farm price fell to \$1.60 per bushel. Falling prices of other feed grains weigh heavily on sorghum prices. Prices are projected to increase in 2000/01 to \$1.81 per bushel. Sorghum prices will maintain a fairly constant relationship to corn prices, rising to \$2.18 per bushel by 2009/10.
- Gross market returns fell in 1999/00, but net returns over variable costs plus government payments increase relative to the previous year. Market net returns plus LDPs for 1999 were \$50.16 per acre. In the future, net returns are projected to rise as the growth rate of yields and prices more than outpace the growth in costs. In the 2009/10 marketing year, market returns hit \$66.09 per acre. Wheat returns are competitive with this, as are cotton returns when adjusted for risk.

U.S. Sorghum Supply and Utilization

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-------------------------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
| Area | | | | | (Mi | Ilion Acres | ;) | | | | |
| Contract Area | 13.6 | 13.6 | 13.6 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 |
| CRP Idled | 2.1 | 2.2 | 2.3 | 2.3 | 2.4 | 2.4 | 2.4 | 2.5 | 2.5 | 2.5 | 2.4 |
| Planted Area | 9.3 | 9.4 | 9.3 | 9.2 | 9.1 | 9.1 | 9.1 | 9.1 | 9.0 | 9.0 | 8.9 |
| Harvested Area | 8.5 | 8.5 | 8.4 | 8.3 | 8.3 | 8.3 | 8.2 | 8.2 | 8.1 | 8.1 | 8.1 |
| Yield | | | | | (Bush | nels per Ad | cre) | | | | |
| Actual | 69.7 | 69.0 | 69.9 | 70.6 | 71.2 | 71.9 | 72.4 | 73.1 | 73.6 | 74.2 | 74.8 |
| Program | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 |
| | | | | | (Mill | ion Bushe | ls) | | | | |
| Supply | 660 | 644 | 641 | 640 | 639 | 642 | 645 | 647 | 646 | 649 | 651 |
| Beginning Stocks | 65 | 55 | 56 | 51 | 51 | 47 | 47 | 46 | 47 | 46 | 45 |
| Production | 595 | 589 | 585 | 589 | 588 | 595 | 597 | 600 | 600 | 603 | 606 |
| Imports | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Domestic Use | 395 | 373 | 367 | 364 | 364 | 363 | 365 | 366 | 365 | 365 | 365 |
| Feed, Residual | 340 | 320 | 314 | 310 | 311 | 310 | 312 | 313 | 312 | 311 | 312 |
| Food, Seed, Ind. | 55 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 54 | 54 | 54 |
| Exports | 210 | 216 | 222 | 226 | 229 | 231 | 233 | 234 | 236 | 239 | 241 |
| Total Use | 605 | 589 | 589 | 589 | 593 | 594 | 598 | 600 | 601 | 603 | 607 |
| Ending Stocks | 55 | 56 | 51 | 51 | 47 | 47 | 46 | 47 | 46 | 45 | 44 |
| FOR, Special Program | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CCC Inventory | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9-Month Loan | 6 | 7 | 8 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 4 |
| "Free" Stocks | 48 | 46 | 42 | 44 | 42 | 42 | 41 | 41 | 40 | 40 | 40 |
| Prices and Returns | | | | | (U. | S. Dollars |) | | | | |
| Farm Price/bu. | 1.60 | 1.81 | 1.90 | 1.92 | 1.98 | 2.00 | 2.04 | 2.07 | 2.10 | 2.13 | 2.18 |
| Loan Rate/bu. | 1.74 | 1.74 | 1.74 | 1.61 | 1.61 | 1.67 | 1.71 | 1.73 | 1.74 | 1.74 | 1.74 |
| Sorghum/Corn Ratio | 0.86 | 0.87 | 0.88 | 0.89 | 0.89 | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.88 |
| FOB Gulf Price/mt | 81.44 | 90.72 | 94.83 | 95.64 | 98.67 | 99.44 | 101.33 | 102.38 | 103.99 | 105.31 | 107.37 |
| Contract Payment/bu. | 0.87 | 0.40 | 0.32 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 |
| Variable Expenses/a. | 82.19 | 85.14 | 85.86 | 87.29 | 88.56 | 89.93 | 91.41 | 92.56 | 93.92 | 95.30 | 96.84 |
| Gross Market Returns/a. | 111.39 | 124.71 | 132.66 | 135.26 | 141.32 | 143.82 | 148.06 | 151.04 | 154.89 | 158.29 | 162.93 |
| LDP Returns/a. | 20.96 | 7.87 | 2.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mkt+LDP Net Returns/a. | 50.16 | 47.43 | 49.00 | 47.97 | 52.76 | 53.88 | 56.65 | 58.47 | 60.97 | 62.98 | 66.09 |
| Contract Payment/a. | 42.08 | 19.34 | 15.57 | 15.12 | 15.12 | 15.12 | 15.12 | 15.13 | 15.13 | 15.13 | 15.12 |

U.S. Barley

- Barley planted area is projected to rise for the 2000/01 season to 5.3 million acres. By marketing year 2009/10, barley planted area is projected to decline to 5 million acres. Barley loses some of its share of total U.S. cropland, continuing a long, ongoing trend. Land formerly devoted to barley production is planted to other crops, including soybeans, minor oilseeds, and corn.
- Barley CRP has fallen to 2.5 million acres by 1999/00. Thereafter, new CRP sign-ups are projected to add to barley CRP area. By the end of the projection period, barley CRP area increases to 3 million acres.
- U.S. barley yield in 1999/00 was 59.2 bushels per acre. Barley yields go up slowly during the baseline period, reaching 69 bushels per acre by 2009/10. This assumes an annual growth rate of 0.9 percent.
- Barley imports are projected to be 25 million bushels in 1999/00. Import levels are expected to be 30 million bushels per year thereafter, making the United States a small net exporter of barley.
- Total domestic use for barley is projected to be relatively stable. Feed use, currently at 125 million bushels, will increase as prices for other feed grains go up. Barley food uses will grow only modestly, from 171 million bushels in 1999/00, to 178 million bushels in 2009/10.
- U.S. barley exports increased by 2 million bushels in 1999/00 to 30 million bushels. Exports grow slowly during the baseline, reaching 40 million bushels by the end of the projection period. The EU increases its exports of barley during the baseline.
- Barley ending stocks in 1999/00 stood at 122 million bushels, down from the previous year's level of 142 million bushels. The projection for 2000/01 is 121 million bushels. Stocks are projected to fall during the baseline, supporting the barley price.
- The 1999/00 U.S. season-average barley farm price is projected to be \$2.05 per bushel, up from \$1.98 per bushel in the prior year. Barley prices rise continually during the baseline. As corn prices rise in the end of the baseline, barley prices are pulled upward. By 2009/10, barley prices are projected to reach \$2.42 per bushel.
- Market net returns over variable costs shrunk to \$39.82 per acre in 1999/00 due to lower prices, but are projected to recover for 2000/01. Yield increases more than offset cost-of-production increases through the remainder of the baseline, resulting in higher market net returns. Barley returns reach \$61.14 per acre in 2009/10.

U.S. Barley Supply and Utilization

| o.o. Barrey Supp | iy aiia . | | 461011 | | | | | | | | |
|-------------------------|-----------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
| Area | | | | | (Mi | Ilion Acres | s) | | | | |
| Contract Area | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 |
| CRP Idled | 2.5 | 2.6 | 2.8 | 2.9 | 2.9 | 3.0 | 3.0 | 3.1 | 3.1 | 3.1 | 3.0 |
| Planted Area | 5.2 | 5.3 | 5.2 | 5.1 | 5.1 | 5.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Harvested Area | 4.8 | 5.0 | 4.9 | 4.9 | 4.8 | 4.8 | 4.8 | 4.8 | 4.7 | 4.7 | 4.7 |
| Yield | | | | | (Bush | nels per A | cre) | | | | |
| Actual | 59.2 | 63.7 | 64.3 | 65.0 | 65.6 | 66.2 | 66.7 | 67.3 | 67.9 | 68.4 | 69.0 |
| Program | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 |
| | | | | | (Mill | ion Bushe | ls) | | | | |
| Supply | 449 | 471 | 468 | 465 | 464 | 465 | 466 | 466 | 466 | 468 | 470 |
| Beginning Stocks | 142 | 122 | 121 | 118 | 118 | 116 | 116 | 115 | 115 | 114 | 113 |
| Production | 282 | 319 | 317 | 317 | 316 | 319 | 320 | 321 | 322 | 324 | 327 |
| Imports | 25 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Domestic Use | 297 | 315 | 315 | 314 | 313 | 314 | 314 | 313 | 313 | 315 | 318 |
| Feed, Residual | 125 | 143 | 142 | 141 | 140 | 140 | 139 | 138 | 137 | 138 | 140 |
| Food, Seed, Ind. | 171 | 172 | 172 | 173 | 173 | 174 | 175 | 175 | 176 | 177 | 178 |
| Exports | 30 | 34 | 35 | 34 | 35 | 35 | 37 | 38 | 39 | 40 | 40 |
| Total Use | 327 | 349 | 350 | 347 | 348 | 349 | 351 | 351 | 353 | 355 | 358 |
| Ending Stocks | 122 | 121 | 118 | 118 | 116 | 116 | 115 | 115 | 114 | 113 | 112 |
| FOR, Special Program | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CCC Inventory | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9-Month Loan | 8 | 9 | 10 | 10 | 9 | 10 | 10 | 10 | 10 | 10 | 9 |
| "Free" Stocks | 113 | 111 | 109 | 108 | 107 | 106 | 105 | 104 | 104 | 103 | 102 |
| Prices and Returns | | | | | (U | .S. Dollars | s) | | | | |
| Farm Price/bu. | 2.05 | 2.10 | 2.18 | 2.20 | 2.26 | 2.27 | 2.30 | 2.32 | 2.35 | 2.38 | 2.42 |
| Loan Rate/bu. | 1.59 | 1.59 | 1.59 | 1.47 | 1.47 | 1.52 | 1.56 | 1.58 | 1.59 | 1.59 | 1.59 |
| Contract Payment/bu. | 0.54 | 0.25 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| FOB Portland/mt | 108.00 | 120.95 | 122.94 | 123.56 | 127.41 | 128.47 | 131.55 | 134.24 | 137.50 | 140.49 | 144.38 |
| Variable Expenses/a. | 90.75 | 94.33 | 94.86 | 96.12 | 97.27 | 98.69 | 100.15 | 101.30 | 102.72 | 104.18 | 105.84 |
| Gross Market Returns/a. | 121.28 | 133.67 | 140.33 | 142.82 | 148.28 | 150.23 | 153.59 | 156.38 | 159.79 | 162.86 | 166.98 |
| LDP Returns/a. | 9.29 | 7.75 | 4.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mkt+LDP Net Returns/a. | 39.82 | 47.08 | 49.54 | 46.70 | 51.01 | 51.54 | 53.44 | 55.08 | 57.07 | 58.67 | 61.14 |
| Contract Payment/a. | 21.51 | 9.98 | 8.04 | 7.80 | 7.80 | 7.81 | 7.81 | 7.81 | 7.81 | 7.81 | 7.81 |

U.S. Oats

- Oats area planted decreased in 1999/00, down to 4.7 million acres. Planted area is projected to decrease again in 2000/01 because of lower prices. In the longer term, oats continue to lose area to other feed grains and oilseeds. In the last year of the baseline, oats planted area stands at 4.2 million acres.
- Harvested area in 1999/00 fell from a year ago to 2.5 million acres. Declining area devoted to oats has been an ongoing trend, and by the last year of the baseline, harvested area is projected to fall to 2.2 million acres. Oat CRP area in 1999 stood at 1.1 million acres. Oats CRP area increases to 1.3 million acres by the last year of the baseline.
- Oat yields decreased to 59.6 bushels per acre harvested in 1999/00. Yields show little growth in the baseline. Trend yield generates an annual increase of 0.3 bushels per acre, just under 0.5 percent.
- Imports of oats are projected to fall to 100 million bushels in 1999/00. Oat exports are projected to be 2 million bushels per year. Imports remain between 107 and 110 million bushels over the baseline period.
- Oat feed use is projected to be 149 million bushels in 1999/00 and then increase until oat prices rise above \$1.30 per bushel. At the end of the baseline, oat feed use will have fallen to 140 million bushels. This feed use path couples with slowly growing food use to produce flat to declining total use.
- Food use of oats continues the trend of the past four years and does not increase significantly during the baseline. Total oat food use reaches 102 million bushels by 2009/10.
- Oat ending stocks are projected to be 80 million bushels for the 1999/00 marketing year, weighing heavily on prices. Stocks decline during the baseline, down to 74 million bushels by the last year.
- The season-average farm price for oats in 1999/00 is projected to be \$1.11 per bushel. Oat prices are projected to be higher in 2000/01 due to higher overall commodity prices. As prices of other feed grains rise during the baseline, oat prices are pulled along, reaching \$1.33 per bushel in 2009/10. Oat contract payments average \$0.02 per bushel during the baseline.
- Market net returns over variable costs in 1999/00 are projected to be \$16.84 per acre, a decrease from the previous year for the third year in a row. Net returns are projected to rise throughout most of the projection period. Rising prices in the latter years of the baseline help offset rising costs and flat yields. By 2009/10, per acre net returns for oats rise to \$17.44.

U.S. Oat Supply and Utilization

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-------------------------|-------|-------|-------|-------|-------|------------|-------|-------|-------|-------|-------|
| Area | | | | | (Mil | lion Acres |) | | | | |
| Contract Area | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| CRP Idled | 1.1 | 1.1 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Planted Area | 4.7 | 4.6 | 4.6 | 4.5 | 4.4 | 4.4 | 4.4 | 4.3 | 4.3 | 4.2 | 4.2 |
| Harvested Area | 2.5 | 2.5 | 2.5 | 2.4 | 2.4 | 2.3 | 2.3 | 2.3 | 2.2 | 2.2 | 2.2 |
| Yield | | | | | (Bush | els per Ac | re) | | | | |
| Actual | 59.6 | 59.8 | 60.0 | 60.4 | 60.6 | 60.9 | 61.2 | 61.4 | 61.7 | 61.9 | 62.2 |
| Program | 50.7 | 50.7 | 50.7 | 50.7 | 50.7 | 50.7 | 50.7 | 50.7 | 50.7 | 50.7 | 50.7 |
| | | | | | • | on Bushel | , | | | | |
| Supply | 327 | 334 | 335 | 332 | 330 | 328 | 326 | 324 | 322 | 320 | 318 |
| Beginning Stocks | 81 | 80 | 80 | 80 | 79 | 78 | 77 | 76 | 76 | 75 | 75 |
| Production | 146 | 147 | 148 | 144 | 143 | 142 | 141 | 139 | 137 | 136 | 134 |
| Imports | 100 | 107 | 107 | 108 | 108 | 108 | 108 | 109 | 109 | 109 | 110 |
| Domestic Use | 245 | 252 | 253 | 251 | 250 | 248 | 248 | 246 | 245 | 243 | 242 |
| Feed, Residual | 149 | 156 | 156 | 153 | 152 | 150 | 148 | 146 | 144 | 142 | 140 |
| Food, Seed, Ind. | 96 | 96 | 97 | 97 | 98 | 99 | 99 | 100 | 101 | 101 | 102 |
| Exports | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Total Use | 247 | 254 | 255 | 253 | 252 | 250 | 250 | 248 | 247 | 245 | 244 |
| Ending Stocks | 80 | 80 | 80 | 79 | 78 | 77 | 76 | 76 | 75 | 75 | 74 |
| FOR, Special Program | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CCC Inventory | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9-Month Loan | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| "Free" Stocks | 79 | 79 | 79 | 78 | 77 | 76 | 75 | 75 | 74 | 74 | 73 |
| Prices and Returns | | | | | (U. | S. Dollars |) | | | | |
| Farm Price/bu. | 1.11 | 1.18 | 1.21 | 1.22 | 1.26 | 1.27 | 1.29 | 1.30 | 1.32 | 1.32 | 1.33 |
| Loan Rate/bu. | 1.13 | 1.13 | 1.13 | 1.05 | 1.04 | 1.08 | 1.11 | 1.13 | 1.13 | 1.13 | 1.13 |
| Contract Payment/bu. | 0.06 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Variable Expenses/a. | 57.10 | 59.06 | 59.38 | 60.16 | 60.67 | 61.35 | 62.06 | 62.66 | 63.41 | 64.18 | 65.03 |
| Gross Market Returns/a. | 65.89 | 70.80 | 72.88 | 73.79 | 76.46 | 77.32 | 78.93 | 79.91 | 81.15 | 81.68 | 82.47 |
| LDP Returns/a. | 8.06 | 3.86 | 2.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mkt+LDP Net Returns/a. | 16.84 | 15.60 | 15.76 | 13.63 | 15.79 | 15.98 | 16.87 | 17.25 | 17.74 | 17.50 | 17.44 |
| Contract Payment/a. | 2.59 | 1.15 | 0.93 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |

U.S. Hay

- Hay area harvested rose to 63.2 million acres in 1999/00. Drought conditions in the Southern Plains increased the number of acres that needed to be harvested for hay. During the baseline, the beef cycle and beef prices play an important part in determining hay area harvested. After declining in the early years, area harvested rises to 60.6 million acres by 2009/10.
- Hay yields fell in 1999/00 to 2.5 tons per acre. Assuming normal weather, yields are projected to increase at a rate of less than 1 percent per year.
- Hay disappearance is projected to increase in 1999/00 to 157.3 million tons. Use decreases to 156.9 million tons in 2000/01 and then shows modest growth every year of the baseline. In the last year of the projection period, hay domestic use is projected to have risen to 162.9 million tons.
- Hay ending stocks in 1999/00 rose to 26.6 million tons. Ending stocks remain near 24 million tons longer term.
- The U.S. average all-hay price fell to \$75.95 per ton in 1999/00, but it is projected to rise to a season-average farm price of \$76.97 per ton in 2000/01.
- The U.S. average alfalfa hay price fell to \$84.74 per ton in 1999/00. For the 2000/01 crop year, alfalfa prices are expected to fall again to \$81.07 per ton. The alfalfa hay price averages more than \$5.10 per ton higher than all-hay prices during the baseline.

U.S. Hay Supply and Utilization

| Cicinicity Completi | | | | | | | | | | | | |
|-------------------------|----------------|-------|-------|-------|-------|------------|-------|-------|-------|-------|-------|--|
| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 | |
| | | | | | (Mil | lion Acres |) | | | | | |
| Area | 63.2 | 60.8 | 60.1 | 60.1 | 60.1 | 60.2 | 60.2 | 60.3 | 60.5 | 60.5 | 60.6 | |
| | | | | | (Ton | s per Acre | e) | | | | | |
| Yield | 2.52 | 2.57 | 2.59 | 2.60 | 2.62 | 2.63 | 2.64 | 2.65 | 2.67 | 2.68 | 2.69 | |
| | | | | | (Mi | llion Tons |) | | | | | |
| Supply | 183.8 | 183.0 | 181.7 | 181.5 | 182.2 | 183.0 | 183.8 | 184.7 | 185.5 | 186.2 | 187.0 | |
| Production | 159.1 | 156.4 | 155.6 | 156.4 | 157.2 | 158.1 | 159.1 | 160.1 | 161.1 | 162.1 | 162.9 | |
| Beginning Stocks | 24.8 | 26.6 | 26.1 | 25.2 | 25.0 | 24.9 | 24.7 | 24.6 | 24.3 | 24.1 | 24.1 | |
| Disappearance | 157.3 | 156.9 | 156.5 | 156.5 | 157.3 | 158.3 | 159.3 | 160.3 | 161.4 | 162.2 | 162.9 | |
| Ending Stocks | 26.6 | 26.1 | 25.2 | 25.0 | 24.9 | 24.7 | 24.6 | 24.3 | 24.1 | 24.1 | 24.1 | |
| Prices | (U.S. Dollars) | | | | | | | | | | | |
| All-Hay (crop year) | 75.95 | 76.97 | 79.00 | 79.46 | 80.14 | 80.86 | 81.61 | 82.62 | 83.56 | 84.05 | 84.36 | |
| Alfalfa (calendar year) | 84.74 | 81.07 | 83.04 | 84.36 | 85.07 | 85.93 | 86.83 | 87.92 | 89.09 | 89.91 | 90.37 | |

U.S. Peanuts

- The U.S. quota poundage increased to 2.4 billion pounds for the 1999/00 crop year. Increases in domestic food use during the baseline period cause the quota to grow 20 million pounds per year.
- Planted area is projected to shrink to 1.5 million acres in 2000/01, as producers respond to weaker price signals. As prices recover and the quota expands, area is projected to recover to more than 1.5 million acres by the end of the baseline.
- The U.S. average peanut yield rose to 2,711 pounds per acre for the 1999/00 crop, a record yield. Using the assumption of trend yields, peanut yields per acre are projected to grow from 2,613 pounds in 2000 to 2,713 pounds by 2009.
- Domestic use of peanuts is projected to grow from 3.2 billion pounds in 1999/00 to 3.5 billion pounds in 2009/10. Food use of peanuts contributes the majority of the growth. However, the growth only keeps pace with the growth in population, implying per-capita use is flat.
- Increased supplies pressured the farm price of peanuts down to \$0.26 per pound in 1999/00. As supplies shrink, prices are expected to strengthen from 2000 to 2001. Prices remain relatively flat after 2001.

U.S. Peanut Supply and Utilization

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|------------------------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
| Program | | | | | (Mill | ion Pound | ds) | | | | |
| Quota Poundage | 2,360 | 2,360 | 2,380 | 2,400 | 2,420 | 2,440 | 2,460 | 2,480 | 2,500 | 2,520 | 2,540 |
| Area | | | | | (Tho | ousand Ac | re) | | | | |
| Planted Area | 1,533 | 1,494 | 1,492 | 1,531 | 1,527 | 1,525 | 1,529 | 1,534 | 1,537 | 1,541 | 1,544 |
| Harvested Area | 1,428 | 1,468 | 1,466 | 1,505 | 1,501 | 1,499 | 1,503 | 1,508 | 1,511 | 1,515 | 1,517 |
| | | | | | (Pou | nds per A | cre) | | | | |
| Yield | 2,711 | 2,613 | 2,625 | 2,631 | 2,644 | 2,656 | 2,668 | 2,679 | 2,690 | 2,702 | 2,713 |
| | | | | | (Mill | ion Pound | ds) | | | | |
| Supply | 5,431 | 5,410 | 5,384 | 5,459 | 5,479 | 5,494 | 5,518 | 5,547 | 5,573 | 5,600 | 5,624 |
| Beginning Stocks | 1,392 | 1,408 | 1,369 | 1,333 | 1,346 | 1,346 | 1,343 | 1,341 | 1,342 | 1,341 | 1,342 |
| Production | 3,870 | 3,836 | 3,849 | 3,961 | 3,968 | 3,982 | 4,010 | 4,040 | 4,066 | 4,094 | 4,117 |
| Imports | 169 | 165 | 165 | 165 | 165 | 165 | 165 | 165 | 165 | 165 | 165 |
| Domestic Use | 3,212 | 3,233 | 3,268 | 3,318 | 3,343 | 3,367 | 3,396 | 3,426 | 3,456 | 3,485 | 3,512 |
| Food | 2,180 | 2,210 | 2,270 | 2,305 | 2,327 | 2,350 | 2,376 | 2,402 | 2,429 | 2,453 | 2,476 |
| Crush | 715 | 713 | 689 | 702 | 706 | 707 | 710 | 714 | 718 | 722 | 726 |
| Seed, Feed, & Residual | 317 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 |
| Exports | 811 | 807 | 782 | 795 | 790 | 784 | 781 | 779 | 776 | 773 | 770 |
| Total Use | 4,023 | 4,040 | 4,051 | 4,113 | 4,133 | 4,151 | 4,177 | 4,205 | 4,232 | 4,258 | 4,283 |
| Ending Stocks | 1,408 | 1,369 | 1,333 | 1,346 | 1,346 | 1,343 | 1,341 | 1,342 | 1,341 | 1,342 | 1,341 |
| Prices and Returns | | | | | (U | .S. Dollars | s) | | | | |
| Season Avg. Price/lb. | 0.261 | 0.258 | 0.272 | 0.270 | 0.268 | 0.269 | 0.270 | 0.270 | 0.271 | 0.271 | 0.271 |
| Quota Loan Rate/lb. | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 | 0.305 |
| Variable Expenses/a | 394.11 | 406.64 | 409.86 | 416.67 | 422.93 | 429.78 | 437.01 | 443.37 | 450.53 | 457.85 | 465.67 |
| Average Net Returns/a | 314.52 | 267.64 | 305.48 | 292.72 | 285.85 | 284.48 | 282.54 | 280.43 | 278.11 | 274.50 | 269.68 |

U.S. Soybeans and Soybean Products

- Soybean planted area rose in 1999/00 to 73.8 million acres. Despite lower prices, soybean planted area is expected to expand again in 2000, as net returns per acre still compare favorably with competing crops. The government loan rate for soybean shifts some land from other crops into soybeans. Longer term, soybean plantings range between 71 and 74 million acres.
- Soybean area enrolled in the CRP totaled 2.8 million acres for the 1998/99 marketing year. By the final year of the baseline, soybean CRP area tops 3.4 million acres.
- Soybean yields stood at 36.5 bushels per acre for 1999/00. Assuming average rainfall and temperatures during the baseline period, soybean yields grow to 44.8 bushels per acre by 2009/10. This is a growth rate of almost 1.4 percent per year.
- Production in 1999/00 came in at 2.6 billion bushels. For the 2000/01 crop, the high area and trend yield combine to produce a record crop of 2.9 billion bushels. By 2009/10, the United States is expected to produce 3.2 billion bushels of soybeans.
- High product demand and ample supplies of soybeans caused crush use to rise to 1.6 billion bushels in 1999/00, and the strong demand is projected to continue. Steady domestic use and export demand for soybean products cause crush to increase steadily in every year of the baseline period, reaching 2 billion bushels by the last year of the baseline. For the 2000/01 marketing year, crush is projected to be 1.7 billion bushels. Over the baseline, crush expands at an average rate of 1.8 percent annually.
- Soybean oil domestic use increased in 1999/00, exceeding 15.7 billion pounds. For the coming marketing year, domestic use is projected at almost 16.4 billion pounds. With slow growth assumed for many competing fats and oils, domestic use continues to increase through 2009/10, topping 19.4 billion pounds.
- Domestic soybean meal use rose in 1999/00 to 31.1 million tons and is expected to rise again in 2000/01 to 32.9 million tons. Increases in livestock numbers during the projection period keep soybean meal use rising during the baseline period. Meal domestic use rises above 39 million tons in the last year of the baseline.
- Exports of soybeans increase at an average rate of 1 percent per year. For the 1999/00 crop year, exports of soybeans are projected to be 865 million bushels. In the final year of the baseline, exports are projected to be 1.1 billion bushels.
- The soybeans season–average farm price moved sharply lower in 1999, on the heels of successive large crops in the United States and South America. The 1999/00 price is projected to be at \$4.77 per bushel. The potential for LDPs continues. Assuming trend yields, soybean prices are expected to average below the loan rate in 2000 and 2001. The soybean loan rate is assumed to be lowered beginning with the 2002 crop, down to the minimum of \$4.92 per bushel. Using the formula set in the 1996 FAIR Act, the soybean loan rate would rest on the minimum during the remainder of the baseline.
- Soybean net returns, including government payments, remain strong throughout the projection period as price and yield increases more than offset rising costs of production. Soybeans remain competitive with cotton in the Southeast and Delta, and with wheat in the Northern Plains and Lake States, but soybeans have difficulty competing with corn in the Midwest.

U.S. Soybean Supply and Utilization

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-------------------------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
| Area | | | | | (Mi | Ilion Acres | s) | | | | |
| CRP Idled | 2.8 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 |
| Planted Area | 73.8 | 74.5 | 73.2 | 71.0 | 71.6 | 71.3 | 72.2 | 71.9 | 72.6 | 72.8 | 73.5 |
| Harvested Area | 72.5 | 73.5 | 72.2 | 70.0 | 70.6 | 70.3 | 71.1 | 70.9 | 71.5 | 71.8 | 72.4 |
| | | | | | | nels per A | • | | | | |
| Yield | 36.5 | 39.9 | 40.6 | 41.4 | 41.9 | 42.5 | 42.9 | 43.5 | 43.9 | 44.4 | 44.8 |
| | | | | | (Mill | ion Bushe | els) | | | | |
| Supply | 2,994 | 3,296 | 3,372 | 3,324 | 3,339 | 3,367 | 3,420 | 3,453 | 3,499 | 3,538 | 3,586 |
| Beginning Stocks | 348 | 363 | 438 | 420 | 380 | 378 | 365 | 368 | 354 | 349 | 337 |
| Production | 2,643 | 2,929 | 2,930 | 2,899 | 2,955 | 2,985 | 3,051 | 3,081 | 3,141 | 3,185 | 3,245 |
| Imports | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Domestic Use | 1,766 | 1,870 | 1,907 | 1,925 | 1,967 | 1,999 | 2,042 | 2,072 | 2,113 | 2,147 | 2,190 |
| Crush | 1,607 | 1,706 | 1,745 | 1,763 | 1,803 | 1,834 | 1,875 | 1,903 | 1,943 | 1,975 | 2,016 |
| Seed, Residual | 159 | 163 | 162 | 162 | 163 | 165 | 167 | 168 | 170 | 172 | 174 |
| Exports | 865 | 989 | 1,045 | 1,018 | 995 | 1,002 | 1,011 | 1,027 | 1,037 | 1,055 | 1,067 |
| Total Use | 2,631 | 2,858 | 2,952 | 2,944 | 2,961 | 3,001 | 3,053 | 3,098 | 3,150 | 3,202 | 3,257 |
| Ending Stocks | 363 | 438 | 420 | 380 | 378 | 365 | 368 | 354 | 349 | 337 | 329 |
| CCC Inventory | 5 | 5 | 5 | 5 | 5 | 3 | 1 | 0 | 0 | 0 | 0 |
| 9-Month Loan | 45 | 37 | 39 | 64 | 65 | 73 | 72 | 73 | 66 | 55 | 49 |
| "Free" Stocks | 313 | 396 | 377 | 311 | 307 | 290 | 294 | 281 | 284 | 281 | 280 |
| Prices and Returns | | | | | (U | .S. Dollars | s) | | | | |
| Farm Price/bu. | 4.77 | 4.24 | 4.49 | 4.94 | 5.00 | 5.17 | 5.20 | 5.38 | 5.47 | 5.63 | 5.74 |
| Loan Rate/bu. | 5.26 | 5.26 | 5.26 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 |
| III. Proc. Price/mt | 180.64 | 162.28 | 170.79 | 186.26 | 188.37 | 194.33 | 195.32 | 201.43 | 204.43 | 209.81 | 213.77 |
| Bean/Corn Ratio | 2.58 | 2.05 | 2.07 | 2.29 | 2.24 | 2.30 | 2.26 | 2.30 | 2.29 | 2.33 | 2.33 |
| Variable Expenses/a. | 94.78 | 97.21 | 98.00 | 99.52 | 101.02 | 102.53 | 104.14 | 105.52 | 107.13 | 108.75 | 110.48 |
| Gross Market Returns/a. | 174.08 | 168.92 | 182.06 | 204.47 | 209.43 | 219.68 | 223.21 | 233.87 | 240.11 | 249.77 | 257.38 |
| LDP Returns/a. | 30.78 | 53.46 | 45.07 | 14.59 | 12.36 | 5.69 | 4.59 | 0.00 | 0.00 | 0.00 | 0.00 |
| '99 Assistance Pymts/a. | 6.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mkt+LDP Net Returns/a. | 116.10 | 125.17 | 129.13 | 119.54 | 120.77 | 122.83 | 123.67 | 128.35 | 132.98 | 141.02 | 146.90 |
| 48% Meal Price/ton | 152.44 | 136.88 | 142.33 | 153.31 | 155.28 | 159.43 | 160.42 | 164.42 | 166.80 | 170.29 | 172.13 |
| Oil Price/cwt | 16.02 | 15.28 | 16.77 | 18.14 | 18.68 | 19.44 | 19.96 | 20.73 | 21.43 | 22.29 | 23.46 |
| Crushing Margin/bu. | 0.51 | 0.56 | 0.63 | 0.62 | 0.67 | 0.70 | 0.75 | 0.77 | 0.83 | 0.86 | 0.93 |

U.S. Soybean Meal Supply and Utilization

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|---------------------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
| | | | | | (Tho | usand To | ns) | | | | |
| Supply | 38,539 | 40,827 | 41,775 | 42,219 | 43,157 | 43,891 | 44,865 | 45,542 | 46,472 | 47,251 | 48,228 |
| Beginning Stocks | 330 | 251 | 286 | 286 | 281 | 283 | 283 | 286 | 286 | 288 | 290 |
| Production | 38,159 | 40,526 | 41,439 | 41,882 | 42,826 | 43,558 | 44,531 | 45,206 | 46,136 | 46,913 | 47,888 |
| Imports | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Domestic Use | 31,138 | 32,919 | 33,565 | 33,955 | 34,775 | 35,346 | 36,089 | 36,750 | 37,568 | 38,272 | 39,127 |
| Exports | 7,150 | 7,622 | 7,924 | 7,982 | 8,099 | 8,263 | 8,490 | 8,506 | 8,616 | 8,689 | 8,807 |
| Total Use | 38,288 | 40,541 | 41,489 | 41,937 | 42,874 | 43,608 | 44,579 | 45,256 | 46,184 | 46,961 | 47,934 |
| Ending Stocks | 251 | 286 | 286 | 281 | 283 | 283 | 286 | 286 | 288 | 290 | 294 |
| Prices, 48% Protein | | | | | (U | .S. Dollars | s) | | | | |
| Decatur/ton | 152.44 | 136.88 | 142.33 | 153.31 | 155.28 | 159.43 | 160.42 | 164.42 | 166.80 | 170.29 | 172.13 |
| Decatur/mt | 168.04 | 150.88 | 156.89 | 168.99 | 171.16 | 175.74 | 176.83 | 181.24 | 183.87 | 187.71 | 189.74 |

U.S. Soybean Oil Supply and Utilization

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|------------------|----------------|--------|--------|--------|--------|------------|--------|--------|--------|--------|--------|
| | | | | | (Mil | lion Pound | ds) | | | | |
| Supply | 19,673 | 21,432 | 22,049 | 22,263 | 22,698 | 23,076 | 23,558 | 23,912 | 24,371 | 24,767 | 25,248 |
| Beginning Stocks | 1,520 | 2,091 | 2,264 | 2,258 | 2,234 | 2,255 | 2,264 | 2,286 | 2,293 | 2,307 | 2,312 |
| Production | 18,073 | 19,282 | 19,725 | 19,945 | 20,403 | 20,761 | 21,234 | 21,566 | 22,019 | 22,400 | 22,875 |
| Imports | 80 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Domestic Use | 15,751 | 16,347 | 16,529 | 16,734 | 17,096 | 17,443 | 17,840 | 18,197 | 18,583 | 18,963 | 19,426 |
| Exports | 1,832 | 2,821 | 3,262 | 3,294 | 3,347 | 3,369 | 3,431 | 3,422 | 3,481 | 3,492 | 3,521 |
| Total Use | 17,583 | 19,168 | 19,791 | 20,029 | 20,443 | 20,812 | 21,272 | 21,620 | 22,064 | 22,455 | 22,947 |
| Ending Stocks | 2,091 | 2,264 | 2,258 | 2,234 | 2,255 | 2,264 | 2,286 | 2,293 | 2,307 | 2,312 | 2,300 |
| Prices | (U.S. Dollars) | | | | | | | | | | |
| Decatur/cwt | 16.02 | 15.28 | 16.77 | 18.14 | 18.68 | 19.44 | 19.96 | 20.73 | 21.43 | 22.29 | 23.46 |
| Decatur/mt | 353.20 | 336.89 | 369.77 | 399.82 | 411.80 | 428.47 | 440.03 | 457.03 | 472.52 | 491.37 | 517.11 |

U.S. Rice

- U.S. rice planted area expanded to 3.6 million acres in 1999/00, up from 3.4 million acres in 1998/99. This is significant because rice area has expanded every year of the FAIR Act since the first year decline to 2.8 million acres. Lower than expected returns for rice in 2000/01 will decrease area to 3.5 million acres. Rice area continues to fall during the baseline, reaching 3.3 million acres by 2009/10.
- U.S. rice harvested area yielded 5,908 pounds per acre in 1999. Yields are projected to show growth throughout the projection period, reaching 6,409 pounds per acre in 2009/10. Changes in planted area aid this growth; as fewer acres are seeded, marginal rice land is taken out first, boosting yields. Also, as area declines faster in the South than in the West, the relative weight of higher yielding California rice rises.
- Assuming trend yields, decreased area will push 2000 rice production down slightly to 206 million cwt. Production is projected to be 207.4 million cwt by the end of the baseline, as area falls faster than yield increases.
- Imports are expected to continue to increase over the projection period. For the 1999/00 marketing year, 11.3 million cwt are expected to be imported. By 2009/10, 16.4 million cwt per year will be imported.
- While both food use and brewing use are projected to increase throughout the projection period, the majority of the increase is in the food category, with brewing use flat on a per-capita basis. Increases in domestic use exceed the growth in production, limiting U.S. exports.
- Ending stocks of rice for 1999/00 are projected to increase to 40.6 million cwt. Stock levels and stock-to-use remain near their present values during the baseline.
- The U.S. average farm price is projected to decrease to \$6.36 per cwt for marketing year 1999/00 due to larger supplies. Prices strengthen slowly to \$6.65 per cwt by 2000/01, as production holds flat. Longer term, rice prices increase, reaching \$8.41 by the end of the projection period. These prices are much lower than the averages of the past five years.
- Weak market prices have pushed net returns lower the last three years. Market net returns over variable production costs remain flat during the baseline as higher market returns are offset by lower LDPs.

U.S. Rice Supply and Utilization

| U.S. Rice Supply | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|--------------------------|--------|--------|--------|--------|----------|-------------|---------|--------|--------|--------|--------|
| Area | | | | | (Mi | Ilion Acres | s) | | | | |
| Contract Area | 4.17 | 4.17 | 4.17 | 4.17 | 4.17 | 4.17 | 4.17 | 4.17 | 4.17 | 4.17 | 4.17 |
| CRP Idled | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Planted Area | 3.58 | 3.45 | 3.46 | 3.48 | 3.41 | 3.39 | 3.36 | 3.34 | 3.30 | 3.29 | 3.26 |
| Harvested Area | 3.56 | 3.42 | 3.44 | 3.45 | 3.38 | 3.36 | 3.34 | 3.32 | 3.28 | 3.26 | 3.24 |
| Yield | | | | | (Pou | nds per A | cre) | | | | |
| Actual | 5,908 | 6,028 | 6,056 | 6,088 | 6,147 | 6,189 | 6,236 | 6,278 | 6,325 | 6,365 | 6,409 |
| Program | 4,817 | 4,817 | 4,817 | 4,817 | 4,817 | 4,817 | 4,817 | 4,817 | 4,817 | 4,817 | 4,817 |
| | | | | | (Million | Hundredw | veight) | | | | |
| Supply | 243.8 | 258.7 | 263.8 | 266.4 | 264.5 | 263.7 | 263.4 | 263.2 | 262.3 | 262.3 | 262.1 |
| Beginning Stocks | 22.1 | 40.6 | 43.4 | 43.5 | 43.2 | 41.9 | 41.0 | 40.2 | 39.5 | 38.8 | 38.3 |
| Production | 210.5 | 206.3 | 208.1 | 210.1 | 208.0 | 208.0 | 208.1 | 208.2 | 207.4 | 207.7 | 207.4 |
| Imports | 11.3 | 11.8 | 12.3 | 12.8 | 13.3 | 13.8 | 14.3 | 14.9 | 15.4 | 15.9 | 16.4 |
| Domestic Use | 120.3 | 123.0 | 125.5 | 127.8 | 130.2 | 132.6 | 135.0 | 137.4 | 139.9 | 142.3 | 144.8 |
| Food | 90.1 | 92.3 | 94.6 | 96.9 | 99.2 | 101.5 | 103.8 | 106.1 | 108.5 | 110.8 | 113.2 |
| Seed | 4.2 | 4.3 | 4.4 | 4.3 | 4.2 | 4.2 | 4.2 | 4.1 | 4.1 | 4.0 | 4.0 |
| Brewing | 16.0 | 16.3 | 16.5 | 16.7 | 16.8 | 16.9 | 17.0 | 17.2 | 17.3 | 17.4 | 17.6 |
| Residual | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Exports | 82.9 | 92.4 | 94.8 | 95.5 | 92.4 | 90.1 | 88.2 | 86.3 | 83.7 | 81.7 | 79.5 |
| Total Use | 203.2 | 215.3 | 220.3 | 223.3 | 222.6 | 222.7 | 223.3 | 223.7 | 223.6 | 224.0 | 224.3 |
| Ending Stocks | 40.6 | 43.4 | 43.5 | 43.2 | 41.9 | 41.0 | 40.2 | 39.5 | 38.8 | 38.3 | 37.9 |
| CCC Inventory | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| "Free" Stocks | 40.6 | 43.4 | 43.5 | 43.2 | 41.9 | 41.0 | 40.2 | 39.5 | 38.8 | 38.3 | 37.9 |
| Prices and Returns | | | | | (U | .S. Dollars | s) | | | | |
| Season Avg. Price/cwt | 6.36 | 6.65 | 6.93 | 7.18 | 7.39 | 7.56 | 7.76 | 7.94 | 8.12 | 8.26 | 8.41 |
| Loan Rate/cwt | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 |
| FOB Houston/cwt | 13.89 | 14.69 | 15.35 | 15.93 | 16.37 | 16.73 | 17.17 | 17.57 | 17.95 | 18.28 | 18.60 |
| Contract Payment/cwt | 5.68 | 2.60 | 2.10 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 |
| Adjusted World Price/cwt | 4.87 | 5.08 | 5.36 | 5.60 | 5.77 | 5.91 | 6.09 | 6.23 | 6.37 | 6.48 | 6.59 |
| Variable Expenses/a | 381.61 | 392.37 | 395.92 | 401.56 | 406.81 | 412.60 | 418.66 | 424.60 | 431.19 | 438.11 | 445.45 |
| Gross Market Returns/a. | 375.71 | 401.17 | 419.65 | 437.01 | 454.11 | 467.61 | 483.86 | 498.33 | 513.38 | 525.98 | 538.96 |
| LDP Returns/a. | 118.08 | 108.79 | 93.57 | 80.48 | 71.31 | 63.67 | 54.13 | 46.01 | 38.18 | 31.95 | 25.74 |
| Market Net Returns/a. | 112.18 | 117.59 | 117.31 | 115.93 | 118.62 | 118.69 | 119.33 | 119.74 | 120.37 | 119.81 | 119.25 |
| Contract Payment/a. | 232.56 | 106.34 | 86.01 | 83.53 | 83.53 | 83.53 | 83.53 | 83.53 | 83.53 | 83.53 | 83.53 |

U.S. Upland Cotton

- Farmers seeded 14.6 million acres to upland cotton in 1999. For the 2000/01 marketing year, planted area is expected to rise to 14.8 million acres planted, due to weaker competition from other crops and optimism about the export market. Longer term, cotton area falls as cotton returns lag behind corn and soybeans. Planted area is expected to decline, reaching 13.6 million acres by the last year of the baseline. The decoupled payment plan of the FAIR Act, as well as competition from corn in the Southeast and soybeans in the Delta, cause the fall.
- The national-average cotton yield fell to 596 pounds per acre in 1999. Poor yields in the Southern Plains were a major cause of the decline. Longer term, cotton yields grow, but at a rate of less than 1 percent per year. In the last year of the baseline, the national-average cotton yield is projected to be 690 pounds per acre.
- U.S. imports of upland cotton totaled 0.4 million bales during the 1998/99 crop year. The level of imports is projected to be lower, at 60,000 bales, for 1999/00 and then fall further to 50,000 bales during the rest of the baseline.
- Increased textile imports pressured mill use lower in 1999, and only modest growth is projected over the baseline. Mill use in 2000/01 is projected to recover to 10.4 million bales. As consumer demand slowly grows, mill use should continue to increase throughout the projection period. In 2009/10, projected mill use is 11.4 million bales. This implies flat per-capita use of domestically milled cotton.
- Weaker global demand and the absence of Step 2 payments limited cotton exports in 1998/99. For the 1999/00 crop year, exports rebounded, but only to the level of 6 million bales. For the 2000/01 crop year, Step 2 payments are assumed to be in effect, and exports reach 7.8 million bales. Longer term, increased competition from abroad limits U.S. exports of cotton. Exports are projected to be 7.6 million bales by 2009/10.
- Reflecting weaker demand and an increase in stocks, cotton prices are projected to average sharply lower in 1999 and 2000. The season-average farm price projection for 1999/00 is \$0.46 per pound and for 2000/01, \$0.47 per pound. A weak adjusted world price (AWP) leads to significant LDPs between 1999 and 2001.

U.S. Upland Cotton Supply and Utilization

| Cici opiana con | ioi opiana ootion oappi) ana omization | | | | | | | | | | |
|--------------------------|--|--------|--------|--------|--------|--------------|--------|--------|--------|--------|--------|
| _ | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
| Area | | | | | (Mi | illion Acre | s) | | | | |
| Contract Area | 16.44 | 16.44 | 16.44 | 16.44 | 16.43 | 16.43 | 16.43 | 16.43 | 16.43 | 16.43 | 16.43 |
| CRP Idled | 1.24 | 1.31 | 1.33 | 1.37 | 1.41 | 1.43 | 1.45 | 1.47 | 1.47 | 1.47 | 1.45 |
| Planted Area | 14.57 | 14.76 | 14.37 | 14.02 | 13.90 | 13.76 | 13.74 | 13.77 | 13.75 | 13.68 | 13.61 |
| Harvested Area | 13.09 | 13.99 | 13.62 | 13.29 | 13.18 | 13.05 | 13.03 | 13.05 | 13.04 | 12.96 | 12.90 |
| Yield | | | | | (Pou | nds per A | cre) | | | | |
| Actual | 596 | 648 | 652 | 656 | 661 | 666 | 671 | 677 | 681 | 686 | 690 |
| Program | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| | | | | | (M | illion Bales | s) | | | | |
| Supply | 20.16 | 23.01 | 23.32 | 22.93 | 22.52 | 22.09 | 21.81 | 21.67 | 21.52 | 21.29 | 20.99 |
| Beginning Stocks | 3.84 | 4.08 | 4.76 | 4.71 | 4.32 | 3.94 | 3.54 | 3.22 | 2.97 | 2.71 | 2.39 |
| Production | 16.26 | 18.88 | 18.51 | 18.17 | 18.15 | 18.11 | 18.22 | 18.40 | 18.51 | 18.53 | 18.55 |
| Imports | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Domestic Use | | | | | | | | | | | |
| Mill Use | 10.05 | 10.40 | 10.55 | 10.61 | 10.68 | 10.75 | 10.87 | 11.02 | 11.17 | 11.30 | 11.41 |
| Exports | 5.98 | 7.84 | 8.05 | 7.99 | 7.90 | 7.79 | 7.71 | 7.67 | 7.63 | 7.59 | 7.55 |
| Total Use | 16.03 | 18.24 | 18.60 | 18.59 | 18.58 | 18.54 | 18.58 | 18.69 | 18.81 | 18.89 | 18.95 |
| Unaccounted | -0.05 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 |
| Ending Stocks | 4.08 | 4.76 | 4.71 | 4.32 | 3.94 | 3.54 | 3.22 | 2.97 | 2.71 | 2.39 | 2.03 |
| CCC Inventory | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| "Free" Stocks | 4.08 | 4.76 | 4.71 | 4.32 | 3.94 | 3.54 | 3.22 | 2.97 | 2.71 | 2.39 | 2.03 |
| Prices and Returns | | | | | (U | .S. Dollars | s) | | | | |
| Season Avg. Price/lb. | 0.459 | 0.470 | 0.479 | 0.500 | 0.522 | 0.543 | 0.562 | 0.578 | 0.594 | 0.613 | 0.635 |
| Loan Rate/lb. | 0.519 | 0.519 | 0.519 | 0.500 | 0.500 | 0.500 | 0.500 | 0.511 | 0.519 | 0.519 | 0.519 |
| Contract Payment/lb. | 0.157 | 0.071 | 0.057 | 0.056 | 0.056 | 0.056 | 0.056 | 0.056 | 0.056 | 0.056 | 0.056 |
| Cotlook A Index/lb. | 0.474 | 0.496 | 0.523 | 0.552 | 0.576 | 0.599 | 0.617 | 0.634 | 0.652 | 0.674 | 0.698 |
| Adjusted World Price/lb. | 0.334 | 0.358 | 0.382 | 0.407 | 0.428 | 0.448 | 0.464 | 0.479 | 0.495 | 0.514 | 0.535 |
| Variable Expenses/a. | 316.64 | 330.01 | 334.78 | 341.58 | 347.36 | 353.70 | 360.56 | 366.97 | 374.06 | 381.38 | 389.13 |
| Gross Market Returns/a. | 313.56 | 342.18 | 355.16 | 377.08 | 395.18 | 414.74 | 431.16 | 447.00 | 462.72 | 481.17 | 501.35 |
| LDP Returns/a. | 120.49 | 116.06 | 101.89 | 74.36 | 61.73 | 49.48 | 39.47 | 37.78 | 33.32 | 21.10 | 7.24 |
| Mkt+LDP Net Returns/a. | 117.41 | 128.23 | 122.28 | 109.86 | 109.55 | 110.52 | 110.07 | 117.80 | 121.98 | 120.90 | 119.46 |
| Contract Payment/a. | 80.17 | 36.29 | 29.22 | 28.36 | 28.36 | 28.37 | 28.37 | 28.37 | 28.37 | 28.37 | 28.37 |

U.S. Cottonseed Supply and Utilization

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 | | |
|---------------------|-----------------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|--|--|
| | (Thousand Tons) | | | | | | | | | | | | |
| Supply | 6,915 | 7,904 | 7,784 | 7,647 | 7,641 | 7,623 | 7,668 | 7,740 | 7,783 | 7,792 | 7,802 | | |
| Beginning Stocks | 393 | 475 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | | |
| Production | 6,422 | 7,399 | 7,254 | 7,117 | 7,111 | 7,093 | 7,138 | 7,210 | 7,253 | 7,262 | 7,272 | | |
| Imports | 100 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | | |
| Domestic Use | 6,370 | 7,324 | 7,204 | 7,067 | 7,061 | 7,043 | 7,088 | 7,160 | 7,203 | 7,212 | 7,222 | | |
| Crush | 3,207 | 3,712 | 3,688 | 3,680 | 3,701 | 3,727 | 3,771 | 3,842 | 3,889 | 3,920 | 3,954 | | |
| Other | 3,164 | 3,611 | 3,516 | 3,387 | 3,361 | 3,316 | 3,317 | 3,318 | 3,315 | 3,292 | 3,268 | | |
| Exports | 70 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | | |
| Total Use | 6,440 | 7,404 | 7,284 | 7,147 | 7,141 | 7,123 | 7,168 | 7,240 | 7,283 | 7,292 | 7,302 | | |
| Ending Stocks | 475 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | | |
| Prices and Returns | | | | | (U | .S. Dollars | s) | | | | | | |
| Farm Price/ton | 81.01 | 71.52 | 80.37 | 91.19 | 93.29 | 97.34 | 98.35 | 101.44 | 103.81 | 107.65 | 111.90 | | |
| Meal Price/ton | 115.95 | 101.61 | 107.50 | 118.02 | 119.77 | 123.47 | 123.96 | 126.79 | 128.48 | 131.40 | 132.90 | | |
| Oil Price/cwt | 20.65 | 20.13 | 21.73 | 23.20 | 23.78 | 24.59 | 25.15 | 25.96 | 26.71 | 27.62 | 28.87 | | |
| Crushing Margin/ton | 37.31 | 39.02 | 37.99 | 36.64 | 37.19 | 37.41 | 38.40 | 39.21 | 39.99 | 40.39 | 40.81 | | |

U.S. Cottonseed Meal Supply and Utilization

| | • • • | | | | | | | | | | | | |
|------------------|-----------------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|--|--|
| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 | | |
| | (Thousand Tons) | | | | | | | | | | | | |
| Supply | 1,467 | 1,720 | 1,724 | 1,719 | 1,726 | 1,738 | 1,758 | 1,791 | 1,813 | 1,828 | 1,843 | | |
| Beginning Stocks | 24 | 34 | 49 | 48 | 46 | 46 | 46 | 47 | 47 | 48 | 48 | | |
| Production | 1,443 | 1,685 | 1,675 | 1,671 | 1,680 | 1,692 | 1,712 | 1,744 | 1,765 | 1,780 | 1,795 | | |
| Imports | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Domestic Use | 1,318 | 1,570 | 1,575 | 1,573 | 1,580 | 1,592 | 1,612 | 1,643 | 1,665 | 1,680 | 1,695 | | |
| Exports | 115 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| Total Use | 1,433 | 1,670 | 1,675 | 1,673 | 1,680 | 1,692 | 1,712 | 1,743 | 1,765 | 1,780 | 1,795 | | |
| Ending Stocks | 34 | 49 | 48 | 46 | 46 | 46 | 47 | 47 | 48 | 48 | 48 | | |
| Prices | | | | | (U | .S. Dollars | s) | | | | | | |
| Memphis/ton | 115.95 | 101.61 | 107.50 | 118.02 | 119.77 | 123.47 | 123.96 | 126.79 | 128.48 | 131.40 | 132.90 | | |
| Memphis/mt | 127.81 | 112.01 | 118.50 | 130.09 | 132.02 | 136.11 | 136.64 | 139.76 | 141.62 | 144.84 | 146.49 | | |

U.S. Cottonseed Oil Supply and Utilization

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 | | |
|-------------------|------------------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|--|--|
| | (Million Pounds) | | | | | | | | | | | | |
| Supply | 1,112 | 1,278 | 1,280 | 1,275 | 1,281 | 1,289 | 1,303 | 1,325 | 1,340 | 1,350 | 1,361 | | |
| Beginning Stocks | 76 | 75 | 85 | 83 | 82 | 81 | 81 | 81 | 81 | 81 | 80 | | |
| Production | 1,027 | 1,188 | 1,180 | 1,177 | 1,184 | 1,193 | 1,207 | 1,229 | 1,244 | 1,254 | 1,265 | | |
| Imports | 9 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | | |
| Domestic Use | 927 | 1,068 | 1,072 | 1,069 | 1,074 | 1,083 | 1,097 | 1,119 | 1,135 | 1,145 | 1,156 | | |
| Exports | 110 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | | |
| Total Use | 1,037 | 1,193 | 1,197 | 1,194 | 1,199 | 1,208 | 1,222 | 1,244 | 1,260 | 1,270 | 1,281 | | |
| Ending Stocks | 75 | 85 | 83 | 82 | 81 | 81 | 81 | 81 | 81 | 80 | 80 | | |
| Prices | | | | | (U | .S. Dollars | s) | | | | | | |
| Valley Points/cwt | 20.65 | 20.13 | 21.73 | 23.20 | 23.78 | 24.59 | 25.15 | 25.96 | 26.71 | 27.62 | 28.87 | | |
| Valley Points/mt | 455.23 | 443.74 | 479.17 | 511.53 | 524.33 | 542.17 | 554.41 | 572.40 | 588.84 | 608.95 | 636.40 | | |

U.S. Sugar

- With weaker prices of competing crops, sugar beet harvested area is expected to increase to almost 1.6 million acres in 2000. If realized, this would be the fourth consecutive year of increase in beet area. Cane area should also show a modest increase, rising above the 1 million acre mark. After 2000, beet area is projected to grow at a slower rate, as competing crop prices rise. Expansion in cane area will be even more modest.
- With growth in domestic use expected to exceed production, additional imports will be required. Total imports for fiscal year 2000 are estimated to be 1.7 million tons. By 2009, imports are projected to rise to 2.6 million tons.
- Sugar domestic disappearance is projected to continue to increase on a per capita basis. Over the projection period, total domestic use expands from 10.3 million tons in 2000 to 11.5 million tons in 2009.
- Ending stocks are expected to reach 16 percent of domestic use by the end of fiscal year 2000 due to increased production. These stock levels and the prospects of increased production in the coming year will make forfeitures of sugar loans a threat. Stocks show a gradual decline after 2002, falling to 14 percent of disappearance by 2009.
- Raw sugar prices are expected to average \$0.22 per pound in 2000. Some recovery is expected in the long run, but near-term price pressure cannot be ignored. During the remainder of the baseline, raw sugar prices range between \$0.22 and \$0.23 per pound.

U.S. Sugar Crop Production

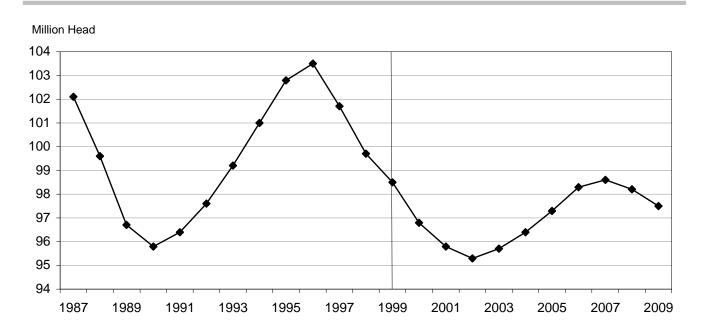
| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Sugar Beets | | | | | | | | | | | |
| Harv. Area (1,000 a.) | 1,527 | 1,560 | 1,564 | 1,563 | 1,567 | 1,571 | 1,577 | 1,582 | 1,588 | 1,593 | 1,599 |
| Yield (tons/a.) | 21.82 | 21.17 | 21.19 | 21.22 | 21.24 | 21.27 | 21.29 | 21.32 | 21.35 | 21.37 | 21.40 |
| Prod. (1,000 tons) | 33,319 | 33,020 | 33,142 | 33,157 | 33,288 | 33,403 | 33,585 | 33,734 | 33,889 | 34,047 | 34,211 |
| Sugarcane | | | | | | | | | | | |
| Harv. Area (1,000 a.) | 991 | 1,013 | 1,026 | 1,033 | 1,038 | 1,042 | 1,046 | 1,049 | 1,052 | 1,055 | 1,057 |
| Yield (tons/a.) | 36.04 | 36.16 | 36.16 | 36.17 | 36.17 | 36.18 | 36.18 | 36.18 | 36.19 | 36.19 | 36.20 |
| Prod. (1,000 tons) | 35,721 | 36,640 | 37,087 | 37,364 | 37,561 | 37,712 | 37,839 | 37,954 | 38,063 | 38,170 | 38,276 |

U.S. Sugar Supply and Utilization

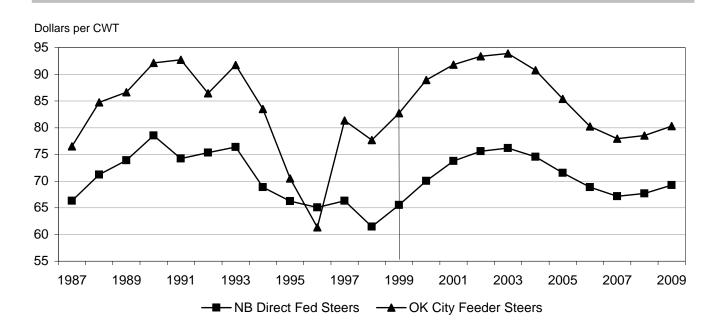
| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | | |
|---------------------|---|--------|--------|--------|------------|-----------|------------|--------|--------|--------|--------|--|--|
| | (Thousand Short Tons, Raw Value, Fiscal Year) | | | | | | | | | | | | |
| Supply | 11,873 | 12,184 | 12,312 | 12,577 | 12,726 | 12,822 | 12,922 | 13,043 | 13,170 | 13,300 | 13,428 | | |
| Beginning Stocks | 1,679 | 1,639 | 1,684 | 1,698 | 1,700 | 1,696 | 1,691 | 1,684 | 1,676 | 1,667 | 1,658 | | |
| Production | 8,374 | 8,750 | 8,804 | 8,876 | 8,915 | 8,961 | 9,000 | 9,045 | 9,085 | 9,124 | 9,164 | | |
| Imports | 1,820 | 1,795 | 1,824 | 2,002 | 2,112 | 2,165 | 2,232 | 2,314 | 2,410 | 2,509 | 2,605 | | |
| Quota | 1,252 | 1,225 | 1,324 | 1,502 | 1,612 | 1,665 | 1,732 | 1,814 | 1,910 | 2,009 | 2,105 | | |
| Non-Quota | 568 | 570 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | | |
| Utilization | 10,296 | 10,500 | 10,613 | 10,877 | 11,030 | 11,131 | 11,238 | 11,367 | 11,503 | 11,642 | 11,779 | | |
| Disappearance | 10,066 | 10,250 | 10,363 | 10,627 | 10,780 | 10,881 | 10,988 | 11,117 | 11,253 | 11,392 | 11,529 | | |
| Exports | 230 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | | |
| Error Adjustment | -62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Ending Stocks | 1,639 | 1,684 | 1,698 | 1,700 | 1,696 | 1,691 | 1,684 | 1,676 | 1,667 | 1,658 | 1,649 | | |
| Prices | | | | (U.S | S. Cents p | er Pound, | Fiscal Yea | ar) | | | | | |
| N.Y. Spot Raw Sugar | 22.07 | 21.94 | 21.95 | 22.04 | 22.11 | 22.16 | 22.22 | 22.29 | 22.36 | 22.44 | 22.52 | | |
| Cane Loan Rate | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | | |

U.S. LIVESTOCK AND DAIRY

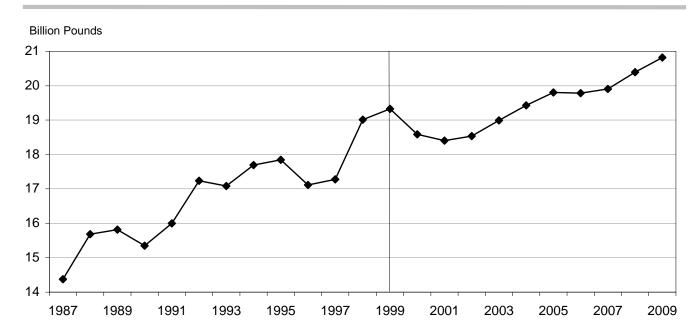
U.S. Cattle and Calves



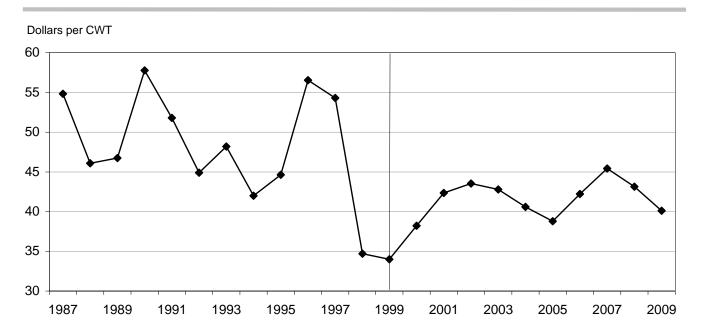
U.S. Cattle Prices



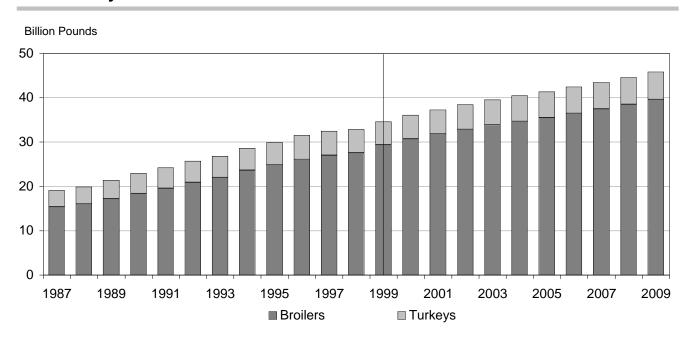
U.S. Pork Production



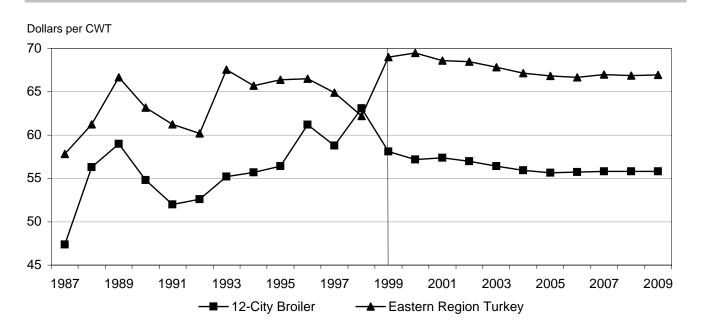
IA-So. MN Barrow and Gilt Price



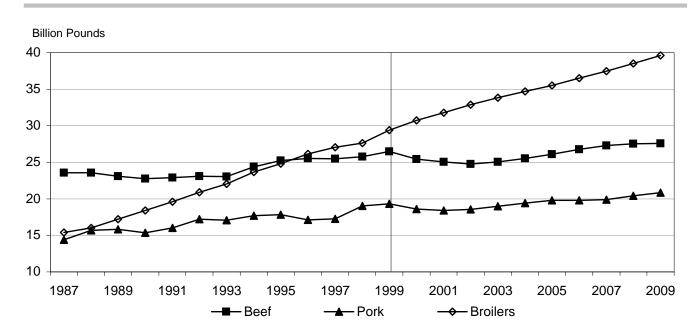
U.S. Poultry Production



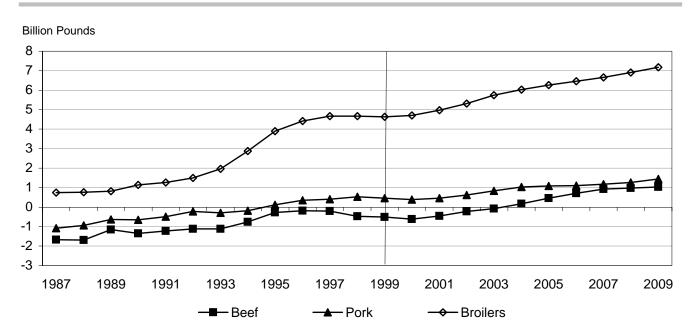
U.S. Poultry Prices



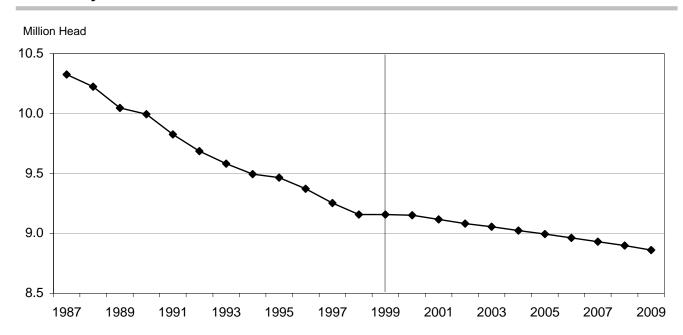
U.S. Livestock Production



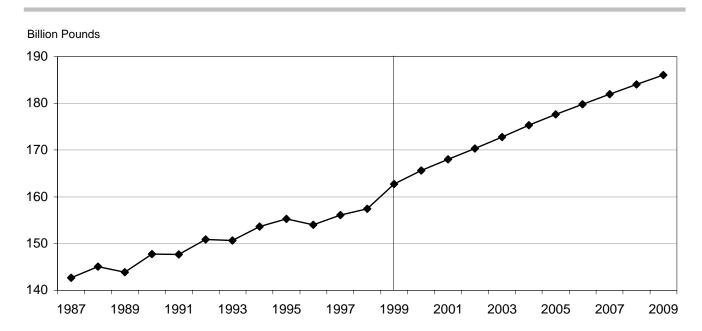
U.S. Meat Net Exports



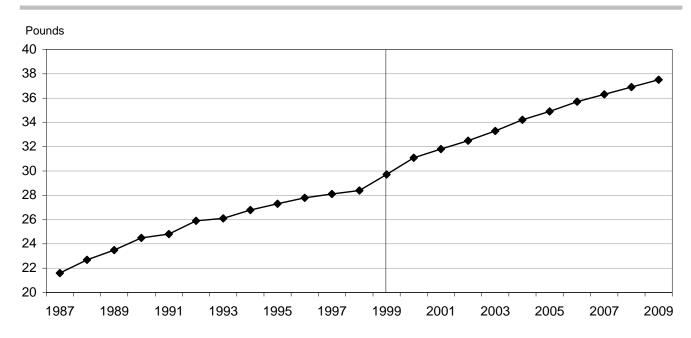
U.S. Dairy Cows



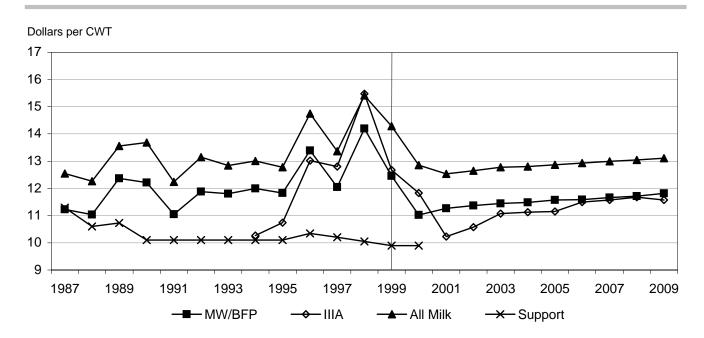
U.S. Milk Production



U.S. Cheese Consumption per Person



U.S. Milk Prices



U.S. Beef

- The inventory of cattle and calves in the United States fell for the fourth year in a row to 96.8 million head at the start of 2000. The baseline shows that the liquidation phase of the cattle cycle will continue through 2002, when total cattle and calf inventories fall to 95.3 million head. The next cattle cycle in the baseline peaks at 98.6 million head, far less than the previous cycle peak of 103.5 million head.
- Beef production is expected to decline in 2000, as available supplies of slaughter cattle diminish. The decline in beef production is less than many expect as slaughter weights continue to remain at large levels. Beef production is expected to decline through 2002 as cattle inventories decline. The next expansion phase of the cattle industry shows beef production increasing by more than 2 billion pounds.
- Domestic beef consumption generally follows the production cycle. Beef consumption declines by 5 pounds on a per capita basis by 2003 relative to the 1999 level of 69.2 pounds. The decline in per capita beef consumption halts after 2003, and consumption per person remains near 63 pounds for the remainder of the baseline.
- Movement of beef outside U.S. borders is expected to increase in the FAPRI baseline. An increase in exports of more than 1.5 billion pounds can be associated with strong income growth in many countries and a continued opening of foreign markets to U.S. beef products.
- The price outlook for the cattle sector is optimistic. Nebraska direct fed steer prices are expected to average near \$70 per cwt for 2000. This price strength can be attributed to both firm domestic demand for beef, as well as the beginning of the reduction in supplies of beef. Prices for cattle are expected to continue their upward path for the next few years. By 2003, fed steer prices are projected to surpass \$76 per cwt.
- Returns to the cow-calf portion of the cattle industry are expected to increase for the next few years, as supplies
 of cattle continue to tighten. Feeder cattle prices are expected to increase more than \$10 per cwt over the 1999
 to 2003 period.

U.S. Beef Supply and Utilization

| O.S. Deel Supply | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | |
|-----------------------------|----------------|--------|--------|--------|-------------|--------------|------------|--------|--------|--------|--------|--|
| | (Million Head) | | | | | | | | | | | |
| Cattle and Calves (Jan. 1) | 98.5 | 96.8 | 95.8 | 95.3 | 95.7 | 96.4 | 97.3 | 98.3 | 98.6 | 98.2 | 97.5 | |
| Beef Cows (Jan. 1) | 33.5 | 33.3 | 33.0 | 33.1 | 33.6 | 34.2 | 34.7 | 35.1 | 35.1 | 34.8 | 34.4 | |
| Total Cattle Slaughter | 36.3 | 34.7 | 34.0 | 33.5 | 33.6 | 34.0 | 34.6 | 35.3 | 35.8 | 35.8 | 35.6 | |
| | | | | | (Mill | lion Pound | ds) | | | | | |
| Supply | 29,766 | 28,827 | 28,456 | 28,222 | 28,518 | 28,954 | 29,463 | 30,067 | 30,529 | 30,693 | 30,769 | |
| Beginning Stocks | 393 | 400 | 367 | 366 | 366 | 371 | 377 | 381 | 385 | 389 | 388 | |
| Imports | 2,877 | 3,014 | 3,056 | 3,086 | 3,103 | 3,046 | 2,988 | 2,918 | 2,836 | 2,790 | 2,821 | |
| Production | 26,496 | 25,412 | 25,034 | 24,770 | 25,049 | 25,537 | 26,098 | 26,767 | 27,308 | 27,514 | 27,560 | |
| Disappearance | 29,366 | 28,460 | 28,091 | 27,856 | 28,147 | 28,577 | 29,082 | 29,682 | 30,140 | 30,305 | 30,382 | |
| Domestic Use | 26,992 | 26,056 | 25,499 | 24,996 | 25,130 | 25,368 | 25,643 | 26,048 | 26,385 | 26,545 | 26,530 | |
| Exports | 2,374 | 2,404 | 2,592 | 2,860 | 3,017 | 3,209 | 3,439 | 3,634 | 3,755 | 3,760 | 3,852 | |
| Ending Stocks | 400 | 367 | 366 | 366 | 371 | 377 | 381 | 385 | 389 | 388 | 387 | |
| Per Capita Consumption | | | | | | (Pounds) | | | | | | |
| Carcass Weight | 99.0 | 94.9 | 92.1 | 89.6 | 89.3 | 89.5 | 89.7 | 90.4 | 90.8 | 90.6 | 89.9 | |
| Retail Weight | 69.2 | 66.3 | 64.4 | 62.6 | 62.4 | 62.5 | 62.7 | 63.2 | 63.5 | 63.3 | 62.8 | |
| Change | 1.6% | -4.1% | -2.9% | -2.8% | -0.3% | 0.1% | 0.3% | 0.8% | 0.5% | -0.2% | -0.9% | |
| Prices | | | | | | | | | | | | |
| 1100-1300 lb. | | | | (U | .S. Dollars | per Hund | dredweight | i) | | | | |
| Nebraska Direct Steers | 65.55 | 70.03 | 73.73 | 75.57 | 76.16 | 74.57 | 71.51 | 68.85 | 67.16 | 67.67 | 69.24 | |
| Change 600-700 lb. | 6.6% | 6.8% | 5.3% | 2.5% | 0.8% | -2.1% | -4.1% | -3.7% | -2.5% | 0.8% | 2.3% | |
| Oklahoma City Feeder Steers | 82.68 | 88.90 | 91.79 | 93.39 | 93.87 | 90.73 | 85.38 | 80.26 | 77.93 | 78.51 | 80.29 | |
| Change | 6.4% | 7.5% | 3.3% | 1.7% | 0.5% | -3.3% | -5.9% | -6.0% | -2.9% | 0.7% | 2.3% | |
| Utility Cows, Sioux Falls | 38.25 | 41.41 | 43.43 | 44.28 | 44.84 | 43.23 | 40.18 | 37.74 | 35.40 | 36.34 | 38.35 | |
| Change | 5.7% | 8.3% | 4.9% | 1.9% | 1.3% | -3.6% | -7.1% | -6.1% | -6.2% | 2.6% | 5.5% | |
| | | | | | (U.S. Do | ollars per l | Pound) | | | | | |
| Beef Retail | 2.88 | 2.99 | 3.09 | 3.16 | 3.17 | 3.15 | 3.11 | 3.10 | 3.08 | 3.11 | 3.16 | |
| Change | 3.9% | 4.0% | 3.0% | 2.3% | 0.5% | -0.7% | -1.1% | -0.4% | -0.7% | 0.9% | 1.6% | |
| Net Returns | 4.05 | 00.04 | 20.42 | 04.04 | , | ollars per | , | 40.04 | FF 07 | 50.50 | 45.00 | |
| Cow - Calf | -1.25 | 20.31 | 30.16 | 34.31 | 32.45 | 14.36 | -14.16 | -40.64 | -55.27 | -53.56 | -45.90 | |

U.S. Pork

- Prices for barrows and gilts are expected to average well above the depressed levels that occurred in 1998 and 1999. For 2000, the national base, 51-52 percent lean equivalent, barrow and gilt prices are expected to average over \$38 per cwt. The FAPRI baseline suggests that over the next 10 years, barrow and gilt prices are expected to average \$5 per cwt lower than what occurred over the previous 10-year period. That projection is conditioned on continued cheap feed costs.
- Pork production for 2000 is expected to fall below the record setting 19.3 billion pounds in 1999. By 2004, pork production is expected to again be at record-setting levels suggesting that processing capacity could again be a problem at that time.
- International markets continue to provide an outlet for additional U.S. pork products. During the next 10-year period, pork exports are expected to grow more than 1 billion pounds, as demand in many Asian countries remains strong.
- Retail pork prices are expected to remain near \$2.50 per pound over the baseline period, moving in the opposite direction of pork production. Retail pork prices increase much slower than the general rate of consumer price inflation.
- With tighter margins expected over the next few years, it is important for pork producers to minimize the risks associated with increasing feed costs from a short crop. Feed costs on a per-cwt basis remain below \$30 throughout the baseline period.
- Per capita consumption of pork is expected to decline by 2.6 pounds this year from the record level of 54 pounds in 1999. Over the baseline period, per capita pork consumption remains near 50 pounds per person.

U.S. Pork Supply and Utilization

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | | |
|-----------------------------|------------------|--------|--------|--------|-------------|--------------|-----------|--------|--------|--------|--------|--|--|
| Hogs on Farms | | | | | (M | illion Head | d) | | | | | | |
| Market (Dec. 1) | 53.2 | 53.5 | 54.6 | 55.6 | 56.0 | 56.8 | 56.8 | 57.6 | 58.5 | 59.0 | 59.5 | | |
| Breeding (Dec. 1) | 6.24 | 6.25 | 6.25 | 6.28 | 6.38 | 6.45 | 6.37 | 6.27 | 6.23 | 6.27 | 6.30 | | |
| Total Hog Slaughter | 101.6 | 97.1 | 95.7 | 95.8 | 97.7 | 99.5 | 100.9 | 100.2 | 100.4 | 102.3 | 104.0 | | |
| | (Million Pounds) | | | | | | | | | | | | |
| Supply | 20,731 | 19,934 | 19,829 | 19,965 | 20,412 | 20,844 | 21,242 | 21,247 | 21,371 | 21,845 | 22,265 | | |
| Beginning Stocks | 586 | 500 | 517 | 503 | 512 | 532 | 543 | 555 | 543 | 543 | 564 | | |
| Imports | 822 | 846 | 906 | 930 | 911 | 880 | 892 | 915 | 919 | 909 | 880 | | |
| Production | 19,323 | 18,588 | 18,406 | 18,532 | 18,989 | 19,432 | 19,807 | 19,778 | 19,909 | 20,392 | 20,821 | | |
| Disappearance | 20,231 | 19,417 | 19,325 | 19,453 | 19,880 | 20,301 | 20,687 | 20,704 | 20,828 | 21,280 | 21,688 | | |
| Domestic Use | 18,959 | 18,178 | 17,968 | 17,902 | 18,131 | 18,392 | 18,713 | 18,684 | 18,736 | 19,103 | 19,373 | | |
| Exports | 1,272 | 1,239 | 1,357 | 1,551 | 1,749 | 1,908 | 1,974 | 2,019 | 2,093 | 2,177 | 2,315 | | |
| Ending Stocks | 500 | 517 | 503 | 512 | 532 | 543 | 555 | 543 | 543 | 564 | 577 | | |
| Per Capita Consumption | | | | | | (Pounds) | | | | | | | |
| Carcass Weight | 69.5 | 66.2 | 64.9 | 64.2 | 64.4 | 64.9 | 65.5 | 64.8 | 64.5 | 65.2 | 65.6 | | |
| Retail Weight | 54.0 | 51.4 | 50.4 | 49.8 | 50.0 | 50.3 | 50.8 | 50.3 | 50.0 | 50.6 | 50.9 | | |
| Change | 2.7% | -4.8% | -2.0% | -1.2% | 0.5% | 0.6% | 0.9% | -1.0% | -0.5% | 1.1% | 0.6% | | |
| Prices | | | | | | | | | | | | | |
| Barrows & Gilts, Natl. Base | | | | (U | .S. Dollars | s per Hund | dredweigh | t) | | | | | |
| 51-52% lean equiv. | 34.00 | 38.21 | 42.36 | 43.53 | 42.78 | 40.58 | 38.77 | 42.22 | 45.42 | 43.13 | 40.12 | | |
| Change | -2.1% | 12.4% | 10.9% | 2.8% | -1.7% | -5.2% | -4.4% | 8.9% | 7.6% | -5.1% | -7.0% | | |
| Sows, IA-S. Minn. #1-2, | | | | | | | | | | | | | |
| 300-400 Lb. * | 19.27 | 25.65 | 28.01 | 29.75 | 28.98 | 27.65 | 26.05 | 27.53 | 29.20 | 27.62 | 25.65 | | |
| Change | -20.6% | 33.1% | 9.2% | 6.2% | -2.6% | -4.6% | -5.8% | 5.7% | 6.1% | -5.4% | -7.1% | | |
| | | | | | (U.S. Do | ollars per l | Pound) | | | | | | |
| Pork Retail | 2.41 | 2.49 | 2.57 | 2.60 | 2.58 | 2.56 | 2.52 | 2.59 | 2.67 | 2.61 | 2.57 | | |
| Change | -0.5% | 3.3% | 2.9% | 1.4% | -0.9% | -0.7% | -1.6% | 2.7% | 3.0% | -1.9% | -1.9% | | |
| Net Returns | | | | (U | .S. Dollars | s per Hund | dredweigh | t) | | | | | |
| Farrow - Finish | -4.13 | -1.29 | 1.63 | 1.86 | 0.42 | -2.27 | -4.53 | -2.21 | -0.06 | -2.79 | -6.17 | | |

^{* 6} Market prior to 1999.

U.S. Poultry

- Broiler production recovered in 1999, expanding by 6.5 percent following the production problems that arose in 1998. For 2000, production is expected to expand by another 4.6 percent. On average, broiler production is expected to expand by 3 percent per year.
- Turkey production is projected to expand by 2.3 percent, reaching 5.3 billion pounds in 2000. Thereafter, annual increases in turkey production are in the 1.5 to 2 percent range. This growth in turkey production is much slower than was experienced during the early 1990s and results in flat per capita consumption.
- Egg production is projected to expand to more than 7 billion dozen in 2000. Egg production is expected to continue to expand year after year in the baseline, as demand for eggs for further processed products and shell egg consumption remain firm.
- The 12-city broiler prices are projected to average near \$0.57 per pound in 2000. The decline in broiler prices can be associated primarily with the additional supplies of broiler meat on the market this year. Over the baseline period, broiler prices are expected to remain in the \$0.55 to \$0.58 per pound range, less than the \$0.63 per pound average price experienced in 1998.
- Exports of U.S. broiler meat are expected to expand by another 2.7 billion pounds over the next 10 years. By 2009, exports are responsible for moving 18.2 percent of domestic production offshore.
- Returns to the poultry sector remain at high levels, as feed costs continue to keep production costs at low levels. Adverse weather would quickly tighten the return picture for all of these commodities.
- Per capita consumption of broiler meat is projected to continue the expansion path it has been on for several years. Consumption of broiler meat will increase another 15 pounds per person annually over the projection period. Consumers consume 95 pounds of broiler meat per person per year by 2009, allowing broiler consumption to make up more than 40 percent of total meat consumption.

U.S. Broiler Supply and Utilization

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------------------------|--------|--------|--------|--------|---------|------------|--------|--------|--------|--------|--------|
| | | | | | (Mill | lion Pound | ds) | | | | |
| Supply | 30,113 | 31,549 | 32,693 | 33,790 | 34,780 | 35,637 | 36,460 | 37,425 | 38,399 | 39,450 | 40,574 |
| Beginning Stocks | 711 | 800 | 892 | 902 | 919 | 928 | 929 | 928 | 931 | 939 | 951 |
| Production | 29,402 | 30,749 | 31,802 | 32,888 | 33,861 | 34,709 | 35,531 | 36,497 | 37,468 | 38,511 | 39,623 |
| Disappearance | 29,316 | 30,662 | 31,795 | 32,875 | 33,856 | 34,712 | 35,536 | 36,498 | 37,464 | 38,503 | 39,611 |
| Domestic Use | 24,685 | 25,964 | 26,816 | 27,556 | 28,117 | 28,684 | 29,281 | 30,042 | 30,804 | 31,593 | 32,444 |
| Exports | 4,631 | 4,698 | 4,978 | 5,319 | 5,739 | 6,028 | 6,254 | 6,456 | 6,661 | 6,909 | 7,167 |
| Ending Stocks | 800 | 892 | 902 | 919 | 928 | 929 | 928 | 931 | 939 | 951 | 968 |
| Per Capita Consumption | | | | | | (Pounds) | | | | | |
| Retail Weight | 90.6 | 94.6 | 96.9 | 98.7 | 99.9 | 101.1 | 102.4 | 104.3 | 106.0 | 107.9 | 109.9 |
| Retail Weight less Pet Food | 78.7 | 82.2 | 84.2 | 85.8 | 86.9 | 87.9 | 89.0 | 90.6 | 92.1 | 93.7 | 95.5 |
| Change | 7.2% | 4.4% | 2.4% | 1.9% | 1.2% | 1.2% | 1.3% | 1.8% | 1.7% | 1.7% | 1.9% |
| Prices | | | | | (U.S. C | ents per F | ound) | | | | |
| 12-City Wholesale | 58.10 | 57.16 | 57.39 | 56.97 | 56.40 | 55.92 | 55.67 | 55.73 | 55.83 | 55.81 | 55.81 |
| Change | -7.9% | -1.6% | 0.4% | -0.7% | -1.0% | -0.9% | -0.4% | 0.1% | 0.2% | 0.0% | 0.0% |
| Broiler Retail | 154.40 | 153.11 | 153.86 | 153.81 | 153.42 | 152.98 | 151.67 | 151.93 | 151.93 | 151.12 | 150.60 |
| Change | 0.5% | -0.8% | 0.5% | 0.0% | -0.3% | -0.3% | -0.9% | 0.2% | 0.0% | -0.5% | -0.3% |
| Net Returns | 10.90 | 9.68 | 9.73 | 8.85 | 7.88 | 7.08 | 6.58 | 6.37 | 6.17 | 5.86 | 5.58 |

U.S. Turkey Supply and Utilization

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|--------------------------|-------|--------|-------|-------|----------|------------|-------|-------|-------|-------|-------|
| | | | | | (Milli | ion Pound | s) | | | | |
| Supply | 5,517 | 5,559 | 5,726 | 5,852 | 5,980 | 6,093 | 6,192 | 6,283 | 6,372 | 6,459 | 6,545 |
| Beginning Stocks | 304 | 225 | 287 | 301 | 312 | 326 | 337 | 346 | 355 | 363 | 372 |
| Production | 5,213 | 5,334 | 5,439 | 5,551 | 5,668 | 5,767 | 5,855 | 5,937 | 6,017 | 6,096 | 6,173 |
| Disappearance | 5,292 | 5,273 | 5,425 | 5,540 | 5,654 | 5,756 | 5,846 | 5,928 | 6,009 | 6,086 | 6,165 |
| Domestic Use | 4,931 | 4,887 | 4,996 | 5,067 | 5,138 | 5,209 | 5,274 | 5,332 | 5,389 | 5,438 | 5,488 |
| Exports | 361 | 386 | 429 | 474 | 516 | 547 | 573 | 596 | 620 | 648 | 677 |
| Ending Stocks | 225 | 287 | 301 | 312 | 326 | 337 | 346 | 355 | 363 | 372 | 380 |
| | | | | | (| Pounds) | | | | | |
| Per Capita Consumption | 18.1 | 17.8 | 18.0 | 18.2 | 18.3 | 18.4 | 18.4 | 18.5 | 18.6 | 18.6 | 18.6 |
| Change | 0.2% | -1.6% | 1.4% | 0.6% | 0.6% | 0.6% | 0.4% | 0.3% | 0.3% | 0.1% | 0.1% |
| Prices | | | | | (U.S. Ce | ents per P | ound) | | | | |
| Eastern Region Wholesale | 69.00 | 69.47 | 68.60 | 68.48 | 67.81 | 67.15 | 66.84 | 66.68 | 66.98 | 66.87 | 66.96 |
| Change | 10.9% | 0.7% | -1.3% | -0.2% | -1.0% | -1.0% | -0.5% | -0.2% | 0.5% | -0.2% | 0.1% |
| Retail | 99.30 | 100.07 | 98.89 | 98.81 | 97.91 | 97.01 | 96.61 | 96.42 | 96.92 | 96.81 | 96.99 |
| Change | -0.3% | 0.8% | -1.2% | -0.1% | -0.9% | -0.9% | -0.4% | -0.2% | 0.5% | -0.1% | 0.2% |
| Net Returns | 8.83 | 9.01 | 7.69 | 7.03 | 5.95 | 4.91 | 4.30 | 3.81 | 3.77 | 3.34 | 3.11 |

U.S. Egg Supply and Utilization

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---|--------|-------|-------|-------|---------|------------|--------|--------|--------|--------|--------|
| | | | | | (Mi | Ilion Doze | n) | | | | |
| Supply | 6,917 | 7,079 | 7,172 | 7,270 | 7,360 | 7,450 | 7,540 | 7,635 | 7,736 | 7,840 | 7,948 |
| Beginning Stocks | 8 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Production | 6,901 | 7,067 | 7,163 | 7,261 | 7,351 | 7,441 | 7,531 | 7,626 | 7,727 | 7,831 | 7,939 |
| Imports | 7 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Disappearance Civilian Disappearance | 6,909 | 7,074 | 7,167 | 7,265 | 7,355 | 7,445 | 7,535 | 7,630 | 7,731 | 7,835 | 7,943 |
| Shell Egg | 4,139 | 4,135 | 4,142 | 4,151 | 4,154 | 4,160 | 4,166 | 4,176 | 4,188 | 4,201 | 4,216 |
| Breaking Egg | 1,671 | 1,783 | 1.844 | 1,907 | 1.972 | 2,038 | 2,104 | 2,170 | 2,238 | 2,307 | 2,377 |
| Hatching Egg | 941 | 996 | 1,020 | 1,044 | 1,065 | 1,081 | 1,097 | 1,114 | 1,133 | 1,153 | 1,175 |
| Exports | 159 | 160 | 162 | 163 | 165 | 166 | 168 | 170 | 172 | 173 | 175 |
| Ending Stock | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Per Capita Consumption | | | | | | (Eggs) | | | | | |
| Shell Egg | 182.2 | 180.8 | 179.6 | 178.5 | 177.2 | 176.0 | 174.9 | 173.9 | 173.0 | 172.2 | 171.3 |
| Change | 2.8% | -0.8% | -0.7% | -0.6% | -0.7% | -0.7% | -0.6% | -0.6% | -0.5% | -0.5% | -0.5% |
| Breaking Egg | 73.5 | 77.9 | 79.9 | 82.0 | 84.1 | 86.2 | 88.3 | 90.4 | 92.5 | 94.5 | 96.6 |
| Change | 8.3% | 6.0% | 2.5% | 2.6% | 2.6% | 2.5% | 2.4% | 2.3% | 2.3% | 2.3% | 2.2% |
| Total | 255.7 | 258.7 | 259.5 | 260.5 | 261.3 | 262.2 | 263.2 | 264.3 | 265.5 | 266.7 | 268.0 |
| Prices | | | | | (U.S. C | ents per D | ozen) | | | | |
| N.Y. Grade A Lg. Wholesale | 65.60 | 62.02 | 65.08 | 66.82 | 68.09 | 68.34 | 68.98 | 70.11 | 70.99 | 71.90 | 72.81 |
| Change | -13.5% | -5.5% | 4.9% | 2.7% | 1.9% | 0.4% | 0.9% | 1.6% | 1.3% | 1.3% | 1.3% |
| Shell Egg Retail | 96.28 | 93.25 | 96.97 | 99.39 | 101.38 | 102.31 | 103.57 | 105.39 | 106.96 | 108.60 | 110.26 |
| Change | -6.2% | -3.1% | 4.0% | 2.5% | 2.0% | 0.9% | 1.2% | 1.8% | 1.5% | 1.5% | 1.5% |
| Net Returns | 2.20 | -1.59 | 0.78 | 1.95 | 2.86 | 2.69 | 3.06 | 3.83 | 4.37 | 4.95 | 5.55 |

U.S. Dairy

- Milk production is set to exceed 165 billion pounds in 2000. This is a 1.8 percent increase over the 1999 level. The annual growth rate of 3.4 percent in milk production that occurred in 1999, coupled with the 1.8 percent projected this year, will result in abundant supplies of milk. Throughout the coming decade, the baseline suggests that the annual growth rate in milk production will average near 1.2 percent.
- Expected gains in milk production per cow more than offset the decline in the U.S. dairy cow herd, which results in an increase in milk production over the projection period. The driving factor behind the large increase in current milk production levels is the leveling off of the dairy cow herd at 9.2 million head. This is the first time in many years that the decline in dairy cows has been halted.
- The outlook for milk uses suggests that the cheese sector is crucial for the dairy sector. Most of the additional supplies of milk generated are destined for the cheese vat. If demand for cheese were to falter, milk prices would likely tumble as well.
- This baseline incorporates all of the changes that resulted from the USDA's reform of the Federal Milk Marketing Order (FMMO) System. Features of this reform include changes in classifications of milk, minimum pricing for milk, and a reduction in the number of orders in the system.
- In accordance with current law, the CCC price support program expires after 2000 in the baseline. This has the largest impact on the nonfat dry milk sector. The Dairy Export Incentive program (DEIP) is used at the WTO maximum level for nonfat dry milk and in the other dairy commodities depending on the market outlook.

U.S. Milk Supply and Utilization

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|------------------------------|---------|---------|---------|---------|-------------|-----------|------------|---------|---------|---------|---------|
| | | | | (1 | Million Pou | unds Milk | Equivalent | :) | | | |
| Supply | 162,875 | 165,800 | 168,166 | 170,471 | 172,912 | 175,497 | 177,771 | 179,967 | 182,099 | 184,154 | 186,161 |
| Milk Production | 162,732 | 165,657 | 168,023 | 170,328 | 172,769 | 175,354 | 177,628 | 179,824 | 181,956 | 184,011 | 186,018 |
| Per Cow (Pounds) | 17,770 | 18,100 | 18,434 | 18,754 | 19,080 | 19,432 | 19,750 | 20,063 | 20,374 | 20,683 | 20,993 |
| No. Cows (1,000) | 9,158 | 9,152 | 9,115 | 9,082 | 9,055 | 9,024 | 8,994 | 8,963 | 8,931 | 8,897 | 8,861 |
| Net Imports | 143 | 143 | 143 | 143 | 143 | 143 | 143 | 143 | 143 | 143 | 143 |
| Net Change in Stocks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utilization | 162,867 | 165,800 | 168,166 | 170,471 | 172,912 | 175,497 | 177,771 | 179,967 | 182,099 | 184,154 | 186,161 |
| On-Farm Use | 1,294 | 1,274 | 1,253 | 1,236 | 1,225 | 1,213 | 1,200 | 1,191 | 1,180 | 1,170 | 1,159 |
| Fed to Calves | 1,108 | 1,107 | 1,099 | 1,092 | 1,086 | 1,079 | 1,073 | 1,067 | 1,060 | 1,053 | 1,045 |
| Farm-churned Butter | 186 | 167 | 154 | 144 | 139 | 133 | 127 | 124 | 120 | 117 | 114 |
| Fluid Product Use | 56,773 | 56,889 | 57,355 | 57,598 | 57,887 | 58,133 | 58,317 | 58,492 | 58,674 | 58,851 | 59,053 |
| Whole Milk Per Capita (lb.) | 71 | 69 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 |
| Lowfat Milk Per Capita (lb.) | 136 | 136 | 136 | 136 | 137 | 137 | 137 | 137 | 137 | 137 | 137 |
| Manufactured Use | 98,550 | 101,387 | 103,308 | 105,387 | 107,551 | 109,902 | 112,003 | 114,034 | 115,995 | 117,883 | 119,699 |
| Creamery Butter | 26,404 | 26,420 | 26,478 | 26,555 | 26,605 | 26,679 | 26,709 | 26,680 | 26,689 | 26,682 | 26,694 |
| Whey Cream | 5,500 | 5,746 | 5,939 | 6,142 | 6,355 | 6,584 | 6,795 | 7,006 | 7,204 | 7,396 | 7,579 |
| Net Creamery Butter | 20,904 | 20,674 | 20,539 | 20,413 | 20,250 | 20,094 | 19,914 | 19,675 | 19,485 | 19,286 | 19,115 |
| Cheese | 60,073 | 62,650 | 64,667 | 66,792 | 69,016 | 71,414 | 73,618 | 75,820 | 77,893 | 79,902 | 81,822 |
| Evaporated and Condensed | 1,689 | 1,901 | 1,800 | 1,731 | 1,670 | 1,617 | 1,548 | 1,490 | 1,425 | 1,363 | 1,293 |
| Frozen Dairy Products | 14,268 | 14,530 | 14,653 | 14,787 | 14,933 | 15,079 | 15,208 | 15,317 | 15,442 | 15,566 | 15,684 |
| Other Manufactured Products | 1,616 | 1,632 | 1,648 | 1,665 | 1,681 | 1,698 | 1,715 | 1,732 | 1,750 | 1,767 | 1,785 |
| Residual | 6,250 | 6,250 | 6,250 | 6,250 | 6,250 | 6,250 | 6,250 | 6,250 | 6,250 | 6,250 | 6,250 |
| Removals (TMSB) | 3,609 | 2,212 | 1,408 | 1,408 | 1,464 | 1,464 | 1,464 | 1,464 | 1,464 | 1,464 | 1,464 |
| Butter | 88 | 88 | 176 | 176 | 220 | 237 | 237 | 264 | 281 | 281 | 308 |
| Cheese | 48 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| Nonfat Dry Milk | 3,403 | 2,016 | 1,124 | 1,124 | 1,124 | 1,124 | 1,124 | 1,124 | 1,124 | 1,124 | 1,124 |
| Farm Prices and Returns | | | | (L | J.S. Dollar | s per Hun | dredweigh | t) | | | |
| Minnesota-Wisconsin | 12.45 | 11.02 | 11.27 | 11.37 | 11.45 | 11.48 | 11.57 | 11.59 | 11.66 | 11.71 | 11.81 |
| Manufacturing Grade | 12.54 | 11.09 | 11.34 | 11.45 | 11.52 | 11.55 | 11.65 | 11.66 | 11.73 | 11.78 | 11.89 |
| III-A Milk Price | 12.68 | 11.83 | 10.23 | 10.58 | 11.08 | 11.12 | 11.15 | 11.50 | 11.57 | 11.68 | 11.57 |
| Fluid Grade | 14.39 | 12.90 | 12.60 | 12.70 | 12.83 | 12.86 | 12.95 | 12.97 | 13.04 | 13.09 | 13.25 |
| All Milk | 14.29 | 12.85 | 12.53 | 12.65 | 12.78 | 12.80 | 12.87 | 12.93 | 12.99 | 13.04 | 13.11 |
| Support Price | 9.90 | 9.90 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

State-level Dairy Supply

- The movement of milk production to the western portion of the United States continues to be the dominant feature of regional milk production. California, New Mexico, and Idaho all continue to increase their percentage of U.S. milk production. California surpassed Wisconsin for the largest inventory of dairy cows in 1998 and continues to distance itself from the second-place finisher.
- The differences that arise in milk production per cow can be quite marked. The states with low levels of milk production per cow will continue to find it difficult to compete. Some states have seen recent jumps in their productivity, as new dairies have come into the state and increased milk per cow considerably.
- The movement of milk production to the western portion of the United States is not associated with the FMMO system.
- Although all 50 states have dairy cows, more than 50 percent of production is associated with only five states: California, Wisconsin, New York, Minnesota, and Pennsylvania.

U.S. Dairy Cows by State

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|
| | | | | | (Thou | usand Hea | ad) | | | | |
| Alabama | 27 | 26 | 24 | 23 | 21 | 20 | 19 | 18 | 17 | 16 | 15 |
| Alaska | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Arizona | 134 | 136 | 138 | 140 | 142 | 144 | 146 | 148 | 150 | 152 | 155 |
| Arkansas | 44 | 40 | 35 | 32 | 29 | 26 | 24 | 23 | 22 | 21 | 20 |
| California | 1,466 | 1,503 | 1,538 | 1,570 | 1,598 | 1,623 | 1,645 | 1,665 | 1,682 | 1,696 | 1,709 |
| Colorado | 82 | 81 | 80 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 |
| Connecticut | 29 | 28 | 27 | 27 | 26 | 26 | 26 | 25 | 25 | 25 | 25 |
| Delaware | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| Florida | 158 | 156 | 154 | 152 | 150 | 149 | 148 | 147 | 147 | 146 | 146 |
| Georgia | 89 | 85 | 80 | 76 | 72 | 69 | 65 | 62 | 59 | 57 | 54 |
| Hawaii | 9 | 8 | 8 | 8 | 7 | 7 | 6 | 6 | 6 | 5 | 5 |
| Idaho | 318 | 342 | 361 | 378 | 392 | 405 | 415 | 424 | 432 | 438 | 443 |
| Illinois | 123 | 117 | 112 | 108 | 104 | 101 | 98 | 96 | 93 | 91 | 89 |
| Indiana | 136 | 136 | 136 | 135 | 135 | 134 | 133 | 132 | 131 | 129 | 128 |
| lowa | 216 | 209 | 203 | 198 | 195 | 191 | 188 | 186 | 183 | 180 | 178 |
| Kansas | 86 | 89 | 90 | 91 | 92 | 93 | 93 | 94 | 95 | 96 | 97 |
| Kentucky | 133 | 128 | 124 | 119 | 115 | 111 | 107 | 104 | 101 | 98 | 95 |
| Louisiana | 61 | 59 | 57 | 56 | 54 | 53 | 52 | 51 | 50 | 49 | 48 |
| Maine | 42 | 42 | 42 | 42 | 41 | 41 | 41 | 42 | 42 | 42 | 42 |
| Maryland | 86 | 85 | 84 | 83 | 82 | 82 | 81 | 81 | 80 | 80 | 79 |
| Massachusetts | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 19 | 19 | 18 | 18 |
| Michigan | 295 | 291 | 286 | 282 | 278 | 274 | 270 | 267 | 264 | 260 | 258 |
| Minnesota | 545 | 539 | 533 | 527 | 522 | 517 | 513 | 508 | 505 | 501 | 498 |
| Mississippi | 39 | 37 | 35 | 33 | 32 | 30 | 29 | 28 | 27 | 25 | 24 |
| Missouri | 161 | 155 | 148 | 143 | 137 | 133 | 129 | 125 | 122 | 119 | 116 |
| Montana | 18 | 18 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 |
| Nebraska | 74 | 78 | 82 | 85 | 88 | 90 | 92 | 94 | 95 | 95 | 96 |
| Nevada | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| New Hampshire | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 13 | 12 | 12 | 11 |
| New Jersey | 18 | 17 | 17 | 16 | 16 | 15 | 14 | 14 | 13 | 13 | 12 |
| New Mexico | 232 | 250 | 265 | 278 | 290 | 300 | 309 | 316 | 323 | 328 | 332 |
| New York | 701 | 701 | 699 | 696 | 693 | 689 | 686 | 682 | 679 | 675 | 671 |
| North Carolina | 73 | 71 | 70 | 68 | 66 | 65 | 64 | 62 | 61 | 60 | 59 |
| North Dakota | 49 | 45 | 42 | 39 | 36 | 33 | 31 | 29 | 27 | 25 | 24 |
| Ohio | 260 | 257 | 253 | 250 | 246 | 243 | 240 | 237 | 234 | 231 | 228 |
| Oklahoma | 92 | 91 | 90 | 90 | 89 | 89 | 88 | 88 | 88 | 87 | 87 |
| Oregon | 89 | 87 | 85 | 84 | 83 | 82 | 81 | 80 | 79 | 79 | 78 |
| Pennsylvania | 616 | 611 | 605 | 600 | 597 | 594 | 591 | 589 | 587 | 585 | 584 |
| Rhode Island | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| South Carolina | 24 | 22 | 21 | 20 | 20 | 19 | 19 | 18 | 18 | 18 | 17 |
| South Dakota | 102 | 101 | 100 | 98 | 97 | 96 | 94 | 93 | 91 | 90 | 88 |
| Tennessee | 97 | 92 | 86 | 81 | 76 | 72 | 68 | 65 | 62 | 60 | 58 |
| Texas | 345 | 338 | 331 | 324 | 317 | 311 | 305 | 300 | 294 | 289 | 284 |
| Utah | 92 | 92 | 92 | 91 | 91 | 91 | 91 | 92 | 92 | 92 | 92 |
| Vermont | 162 | 162 | 160 | 158 | 157 | 157 | 156 | 156 | 156 | 156 | 155 |
| Virginia | 121 | 119 | 117 | 115 | 113 | 112 | 110 | 109 | 107 | 106 | 105 |
| Washington | 247 | 246 | 244 | 242 | 241 | 240 | 239 | 239 | 238 | 238 | 237 |
| West Virginia | 18 | 18 | 17 | 17 | 17 | 16 | 16 | 16 | 15 | 15 | 15 |
| Wisconsin | 1,366 | 1.357 | 1,344 | 1,333 | 1,323 | 1,312 | 1,301 | 1,290 | 1.280 | 1,269 | 1.258 |
| Wyoming | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| United States | 9,158 | 9,152 | 9,115 | 9,082 | 9.055 | 9,024 | 8,994 | 8,963 | 8,931 | 8,897 | 8,861 |

U.S. Milk Production by State

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|---------|---------|---------|---------|---------|------------|---------|---------|---------|---------|---------|
| | | | | | ` | llion Poun | , | | | | |
| Alabama | 370 | 361 | 346 | 331 | 317 | 303 | 290 | 277 | 264 | 252 | 239 |
| Alaska | 14 | 15 | 16 | 16 | 17 | 18 | 18 | 19 | 19 | 19 | 20 |
| Arizona | 2,928 | 3,002 | 3,084 | 3,174 | 3,268 | 3,366 | 3,462 | 3,560 | 3,659 | 3,760 | 3,862 |
| Arkansas | 528 | 483 | 438 | 401 | 370 | 346 | 326 | 310 | 298 | 289 | 285 |
| California | 30,437 | 31,537 | 32,914 | 34,122 | 35,295 | 36,459 | 37,541 | 38,542 | 39,514 | 40,437 | 41,342 |
| Colorado | 1,684 | 1,680 | 1,672 | 1,670 | 1,670 | 1,671 | 1,670 | 1,671 | 1,672 | 1,673 | 1,675 |
| Connecticut | 522 | 525 | 521 | 517 | 515 | 516 | 516 | 517 | 519 | 522 | 526 |
| Delaware | 178 | 182 | 182 | 183 | 185 | 188 | 190 | 192 | 195 | 197 | 200 |
| Florida | 2,395 | 2,420 | 2,411 | 2,413 | 2,427 | 2,447 | 2,469 | 2,491 | 2,516 | 2,541 | 2,568 |
| Georgia | 1,449 | 1,391 | 1,328 | 1,271 | 1,220 | 1,173 | 1,127 | 1,083 | 1,042 | 1,003 | 966 |
| Hawaii | 121 | 119 | 116 | 112 | 108 | 103 | 97 | 91 | 85 | 78 | 71 |
| Idaho | 6,438 | 7,059 | 7,599 | 8,094 | 8,557 | 8,991 | 9,379 | 9,738 | 10,068 | 10,373 | 10,655 |
| Illinois | 2,029 | 1,975 | 1,923 | 1,882 | 1,852 | 1,829 | 1,807 | 1,788 | 1,770 | 1,754 | 1,738 |
| Indiana | 2,187 | 2,229 | 2,251 | 2,280 | 2,310 | 2,338 | 2,359 | 2,378 | 2,394 | 2,406 | 2,414 |
| Iowa | 3,778 | 3,714 | 3,659 | 3,630 | 3,618 | 3,614 | 3,610 | 3,607 | 3,604 | 3,599 | 3,595 |
| Kansas | 1,390 | 1,466 | 1,511 | 1,557 | 1,604 | 1,652 | 1,696 | 1,742 | 1,787 | 1,832 | 1,877 |
| Kentucky | 1,642 | 1,625 | 1,589 | 1,557 | 1,528 | 1,504 | 1,479 | 1,456 | 1,435 | 1,416 | 1,400 |
| Louisiana | 713 | 702 | 689 | 680 | 674 | 671 | 667 | 664 | 661 | 659 | 658 |
| Maine | 693 | 713 | 720 | 727 | 735 | 746 | 756 | 766 | 776 | 786 | 796 |
| Maryland | 1.392 | 1,403 | 1,400 | 1,401 | 1,406 | 1,413 | 1,419 | 1,426 | 1,433 | 1,440 | 1,447 |
| Massachusetts | 421 | 414 | 402 | 390 | 381 | 375 | 369 | 366 | 363 | 362 | 363 |
| Michigan | 5,429 | 5,476 | 5,459 | 5,450 | 5,451 | 5,460 | 5,461 | 5,467 | 5,475 | 5,484 | 5,493 |
| Minnesota | 9,481 | 9,564 | 9,625 | 9,676 | 9,742 | 9,822 | 9,891 | 9,960 | 10,033 | 10,107 | 10,186 |
| Mississippi | 556 | 540 | 519 | 502 | 487 | 474 | 461 | 449 | 437 | 425 | 413 |
| Missouri | 2,274 | 2,199 | 2,116 | 2,051 | 1,995 | 1,948 | 1,902 | 1,863 | 1,829 | 1,801 | 1,777 |
| Montana | 303 | 302 | 299 | 298 | 298 | 298 | 299 | 300 | 300 | 301 | 302 |
| Nebraska | 1,208 | 1,301 | 1,384 | 1,465 | 1,538 | 1,606 | 1,663 | 1,714 | 1,757 | 1,793 | 1,823 |
| Nevada | 497 | 502 | 505 | 511 | 517 | 523 | 529 | 535 | 541 | 547 | 553 |
| New Hampshire | 321 | 309 | 293 | 278 | 266 | 255 | 246 | 238 | 231 | 226 | 220 |
| New Jersey | 280 | 275 | 267 | 261 | 254 | 248 | 241 | 235 | 228 | 221 | 214 |
| New Mexico | 4,721 | 5,171 | 5,570 | 5,937 | 6,278 | 6,600 | 6,887 | 7,149 | 7,387 | 7,603 | 7,797 |
| New York | 12,061 | 12,329 | 12,472 | 12,591 | 12,709 | 12,844 | 12,950 | 13,056 | 13,156 | 13,254 | 13,347 |
| North Carolina | 1,216 | 1,213 | 1,195 | 1,178 | 1,162 | 1,148 | 1,134 | 1,120 | 1,107 | 1,095 | 1,084 |
| North Dakota | 697 | 655 | 615 | 577 | 543 | 511 | 482 | 455 | 431 | 410 | 392 |
| Ohio | 4,431 | 4,478 | 4,458 | 4,446 | 4,440 | 4,441 | 4,435 | 4,431 | 4,425 | 4,419 | 4,409 |
| Oklahoma | 1.249 | 1,257 | 1,256 | 1,257 | 1,262 | 1,270 | 1,275 | 1,281 | 1,288 | 1,294 | 1,301 |
| Oregon | 1,645 | 1,638 | 1,619 | 1,606 | 1,600 | 1,597 | 1,593 | 1,592 | 1,591 | 1,592 | 1,592 |
| Pennsylvania | 10,931 | 11,014 | 11,085 | 11,168 | 11,267 | 11,395 | 11,511 | 11,634 | 11,761 | 11,891 | 12,024 |
| • | 31 | 30 | 29 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| Rhode Island | 366 | | 341 | | | | 322 | 319 | 316 | | 309 |
| South Carolina | | 353 | | 332 | 326 | 324 | | | | 313 | |
| South Dakota | 1,507 | 1,520 | 1,528 | 1,532 | 1,536 | 1,542 | 1,543 | 1,543 | 1,542 | 1,539 | 1,536 |
| Tennessee | 1,417 | 1,364 | 1,287 | 1,223 | 1,169 | 1,121 | 1,078 | 1,041 | 1,011 | 987 | 969 |
| Texas | 5,618 | 5,573 | 5,492 | 5,434 | 5,386 | 5,345 | 5,297 | 5,255 | 5,212 | 5,172 | 5,133 |
| Utah | 1,609 | 1,619 | 1,621 | 1,631 | 1,645 | 1,662 | 1,677 | 1,693 | 1,709 | 1,725 | 1,741 |
| Vermont | 2,754 | 2,834 | 2,842 | 2,851 | 2,878 | 2,915 | 2,952 | 2,993 | 3,034 | 3,075 | 3,116 |
| Virginia | 1,873 | 1,868 | 1,853 | 1,846 | 1,841 | 1,840 | 1,837 | 1,836 | 1,834 | 1,834 | 1,834 |
| Washington | 5,537 | 5,579 | 5,589 | 5,613 | 5,648 | 5,690 | 5,728 | 5,771 | 5,815 | 5,862 | 5,910 |
| West Virginia | 277 | 279 | 277 | 276 | 275 | 274 | 272 | 271 | 269 | 268 | 265 |
| Wisconsin | 23,055 | 23,326 | 23,585 | 23,833 | 24,101 | 24,382 | 24,619 | 24,847 | 25,069 | 25,280 | 25,486 |
| Wyoming | 80 | 76 | 72 | 70 | 69 | 68 | 67 | 67 | 67 | 67 | 67 |
| United States | 162,732 | 165,657 | 168,023 | 170,328 | 172,769 | 175,354 | 177,628 | 179,824 | 181,956 | 184,011 | 186,018 |

State-Level All Milk Prices

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------------------|-------|-------|----------------|----------------|-------------|----------------|----------|----------------|-------|-------|----------------|
| | | | | | (Dollars pe | er Hundred | dweight) | | | | |
| Alabama | 16.37 | 14.36 | 13.76 | 13.90 | 14.03 | 14.06 | 14.14 | 14.20 | 14.27 | 14.33 | 14.40 |
| Alaska | 20.35 | 20.40 | 20.45 | 20.50 | 20.55 | 20.60 | 20.65 | 20.70 | 20.75 | 20.80 | 20.85 |
| Arizona | 13.87 | 12.46 | 12.04 | 12.18 | 12.33 | 12.36 | 12.43 | 12.51 | 12.57 | 12.63 | 12.69 |
| Arkansas | 15.42 | 14.26 | 13.67 | 13.80 | 13.93 | 13.96 | 14.04 | 14.10 | 14.17 | 14.23 | 14.31 |
| California | 13.70 | 11.87 | 12.12 | 12.22 | 12.30 | 12.33 | 12.42 | 12.44 | 12.51 | 12.56 | 12.66 |
| Colorado | 14.66 | 13.13 | 12.64 | 12.79 | 12.95 | 12.98 | 13.06 | 13.15 | 13.21 | 13.28 | 13.34 |
| Connecticut | 15.35 | 14.93 | 13.81 | 13.57 | 13.75 | 13.78 | 13.86 | 13.96 | 14.03 | 14.09 | 14.14 |
| Delaware | 15.05 | 14.71 | 13.62 | 13.48 | 13.66 | 13.70 | 13.77 | 13.88 | 13.95 | 14.01 | 14.06 |
| Florida | 17.78 | 16.29 | 15.67 | 15.80 | 15.92 | 15.95 | 16.03 | 16.08 | 16.15 | 16.21 | 16.29 |
| Georgia | 16.24 | 14.67 | 14.11 | 14.24 | 14.36 | 14.39 | 14.47 | 14.53 | 14.60 | 14.65 | 14.73 |
| Hawaii | 26.46 | 26.56 | 26.66 | 26.77 | 26.87 | 26.98 | 27.08 | 27.19 | 27.30 | 27.41 | 27.52 |
| Idaho | 12.94 | 11.46 | 11.16 | 11.33 | 11.51 | 11.55 | 11.62 | 11.73 | 11.79 | 11.86 | 11.91 |
| Illinois | 14.07 | 12.75 | 12.44 | 12.56 | 12.67 | 12.71 | 12.79 | 12.84 | 12.90 | 12.96 | 13.05 |
| Indiana | 14.54 | 13.22 | 12.50 | 12.66 | 12.85 | 12.88 | 12.96 | 13.06 | 13.13 | 13.19 | 13.24 |
| lowa | 13.43 | 11.87 | 11.60 | 11.73 | 11.86 | 11.89 | 11.97 | 12.04 | 12.10 | 12.16 | 12.24 |
| Kansas | 13.91 | 12.55 | 12.06 | 12.21 | 12.36 | 12.40 | 12.48 | 12.56 | 12.63 | 12.69 | 12.75 |
| Kentucky | 15.43 | 14.14 | 13.51 | 13.65 | 13.78 | 13.81 | 13.90 | 13.96 | 14.03 | 14.09 | 14.16 |
| Louisiana | 16.34 | 14.72 | 14.13 | 14.26 | 14.39 | 14.42 | 14.50 | 14.56 | 14.63 | 14.69 | 14.77 |
| Maine | 15.30 | 14.67 | 13.56 | 13.34 | 13.51 | 13.55 | 13.62 | 13.72 | 13.79 | 13.85 | 13.91 |
| Maryland | 15.15 | 13.97 | 13.38 | 13.54 | 13.72 | 13.76 | 13.83 | 13.94 | 14.00 | 14.07 | 14.12 |
| Massachusetts | 16.00 | 14.58 | 13.46 | 13.22 | 13.40 | 13.43 | 13.51 | 13.60 | 13.67 | 13.74 | 13.79 |
| Michigan | 14.87 | 13.46 | 12.87 | 13.03 | 13.21 | 13.25 | 13.32 | 13.43 | 13.50 | 13.56 | 13.61 |
| Minnesota | 14.07 | 12.20 | 12.12 | 12.25 | 12.37 | 12.40 | 12.48 | 12.54 | 12.60 | 12.66 | 12.74 |
| Mississippi | 16.29 | 14.91 | 14.32 | 14.45 | 14.58 | 14.61 | 14.69 | 14.75 | 14.82 | 14.88 | 14.96 |
| Missouri | 14.81 | 13.40 | 12.76 | 12.92 | 13.10 | 13.14 | 13.21 | 13.31 | 13.36 | 13.43 | 13.48 |
| Montana | 14.40 | 12.80 | 12.70 | 12.66 | 12.86 | 12.90 | 12.98 | 13.09 | 13.16 | 13.43 | 13.40 |
| Nebraska | 13.44 | 12.04 | 11.62 | 11.77 | 11.93 | 11.97 | 12.04 | 12.13 | 12.20 | 12.26 | 12.32 |
| Nevada | 13.25 | 11.94 | 11.46 | 11.62 | 11.79 | 11.83 | 11.90 | 12.13 | 12.20 | 12.20 | 12.19 |
| New Hampshire | 15.23 | 15.27 | 14.16 | 13.94 | 14.11 | 14.15 | 14.22 | 14.32 | 14.39 | 14.45 | 14.51 |
| New Jersey | 15.20 | 13.94 | 13.43 | 13.59 | 13.76 | 13.80 | 13.87 | 13.97 | 14.04 | 14.10 | 14.15 |
| New Mexico | 13.85 | 12.50 | 12.09 | 12.24 | 12.39 | 12.43 | 12.51 | 12.59 | 12.65 | 12.71 | 12.78 |
| | 14.49 | 13.14 | | | 12.39 | | | | 13.24 | | |
| New York North Carolina | 17.19 | | 12.63 15.34 | 12.79 15.48 | | 13.00 15.65 | 13.07 | 13.17 15.79 | | 13.30 | 13.36 15.99 |
| | | 16.00 | 11.54 | | 15.61 | | 15.73 | 11.95 | 15.86 | 15.92 | 12.16 |
| North Dakota | 13.15 | 11.62 | | 11.66 | 11.78 | 11.81 | 11.90 | | 12.02 | 12.07 | |
| Ohio | 15.00 | 13.89 | 13.21 | 13.38 | 13.56 | 13.60 | 13.67 | 13.78 | 13.84 | 13.91 | 13.96 |
| Oklahoma | 15.81 | 14.14 | 13.57 | 13.73 | 13.90 | 13.93 | 14.01 | 14.10 | 14.17 | 14.23 | 14.29 |
| Oregon | 14.24 | 12.92 | 12.34 | 12.51 | 12.72 | 12.75 | 12.82 | 12.94 | 13.01 | 13.08 | 13.12 |
| Pennsylvania | 15.13 | 13.32 | 12.87 | 13.00 | 13.14 | 13.17 | 13.25 | 13.31 | 13.38 | 13.43 | 13.50 |
| Rhode Island | 15.90 | 15.48 | 14.36 | 14.12 | 14.30 | 14.33 | 14.41 | 14.51 | 14.58 | 14.64 | 14.69 |
| South Carolina | 15.95 | 14.67 | 14.01 | 14.15 | 14.29 | 14.32 | 14.40 | 14.47 | 14.54 | 14.59 | 14.67 |
| South Dakota | 15.00 | 13.40 | 13.32 | 13.45 | 13.56 | 13.60 | 13.68 | 13.73 | 13.80 | 13.85 | 13.94 |
| Tennessee | 15.95 | 14.82 | 14.18 | 14.32 | 14.45 | 14.49 | 14.57 | 14.63 | 14.70 | 14.76 | 14.83 |
| Texas | 15.07 | 13.77 | 13.14 | 13.30 | 13.49 | 13.52 | 13.59 | 13.70 | 13.77 | 13.83 | 13.88 |
| Utah | 13.84 | 12.40 | 11.97 | 12.12 | 12.28 | 12.32 | 12.40 | 12.48 | 12.55 | 12.61 | 12.67 |
| Vermont | 15.46 | 14.83 | 13.72 | 13.50 | 13.67 | 13.71 | 13.78 | 13.88 | 13.95 | 14.01 | 14.07 |
| Virginia | 15.86 | 14.67 | 14.01 | 14.15 | 14.28 | 14.32 | 14.40 | 14.46 | 14.53 | 14.59 | 14.66 |
| Washington | 14.23 | 12.81 | 12.23 | 12.41 | 12.61 | 12.64 | 12.72 | 12.84 | 12.90 | 12.97 | 13.01 |
| West Virginia | 15.00 | 13.89 | 13.21 | 13.38 | 13.56 | 13.60 | 13.67 | 13.78 | 13.84 | 13.91 | 13.96 |
| Wisconsin | 13.95 | 12.41 | 12.26 | 12.40 | 12.52 | 12.56 | 12.64 | 12.70 | 12.77 | 12.82 | 12.90 |
| Wyoming | 13.30 | 11.50 | 11.08 | 11.23 | 11.39 | 11.43 | 11.50 | 11.59 | 11.66 | 11.72 | 11.78 |
| United States | 14.29 | 12.85 | 12.53 | 12.65 | 12.78 | 12.80 | 12.87 | 12.93 | 12.99 | 13.04 | 13.11 |

U.S. Dairy Products

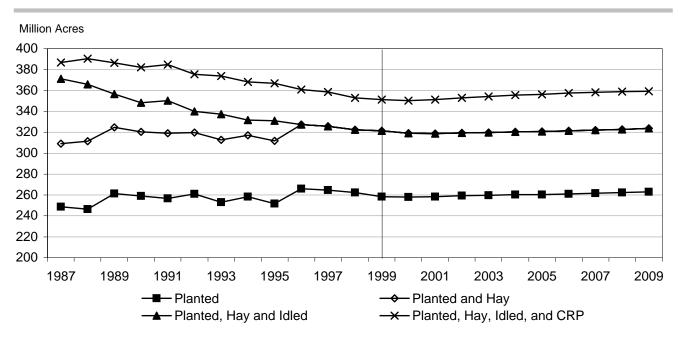
- Demand for cheese remains the major driver for the entire dairy industry. Cheese consumption per person is expected to increase another 6 pounds over the entire baseline period. If American consumers falter in their consumption of cheese, the entire dairy industry would be in for a major adjustment.
- Butter prices are expected to remain near \$1.15 per pound over the baseline period, as supplies of butter do not grow substantially; however, demand for butter remains firm.
- Wholesale cheese prices are expected to decline by more than \$0.20 per pound to \$1.25 per pound in 2000 relative to 1999, as the large supply of milk results in abundant supplies of cheese. Longer term, wholesale cheese prices are expected to average in the \$1.30 per pound range.
- The outlook for nonfat dry milk prices suggests they will fall to near \$0.80 per pound with the conclusion of the long-standing CCC purchase program. As the nonfat dry milk market adjusts to the end of the CCC purchase program, prices rise but never return to levels seen before the end of the CCC purchase program.
- The United States is not expected to be a consistent commercial exporter of bulk dairy products. Domestic prices for cheese, butter, and nonfat dry milk remain above the respective world prices for these products.

U.S. Dairy Supply and Utilization

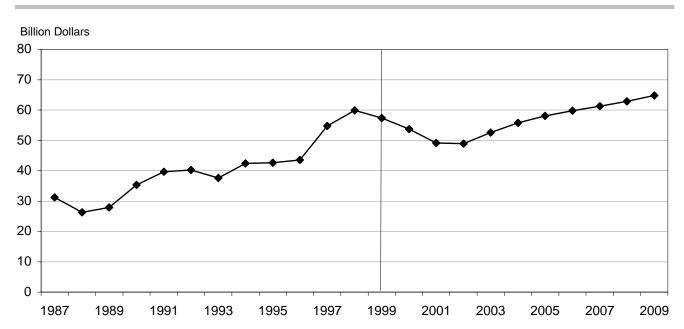
| O.S. Daily Supply | | ıııızaı | | | | | | | | | |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| Butter | | | | | (Mil | lion Pound | ds) | | | | |
| Supply | 1,217 | 1,220 | 1,223 | 1,228 | 1,228 | 1,230 | 1,229 | 1,226 | 1,225 | 1,222 | 1,223 |
| Production | 1,161 | 1,162 | 1,164 | 1,168 | 1,170 | 1,173 | 1,174 | 1,173 | 1,174 | 1,173 | 1,174 |
| Imports | 30 | 31 | 32 | 33 | 31 | 30 | 28 | 26 | 24 | 22 | 22 |
| Utilization | 1,216 | 1,220 | 1,224 | 1,228 | 1,228 | 1,230 | 1,229 | 1,226 | 1,224 | 1,222 | 1,223 |
| Domestic Use | 1,175 | 1,179 | 1,174 | 1,177 | 1,173 | 1,172 | 1,171 | 1,166 | 1,163 | 1,160 | 1,158 |
| Exports | 12 | 12 | 21 | 22 | 26 | 29 | 29 | 31 | 32 | 33 | 36 |
| Shipments | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Ending Stocks | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| CCC Removals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DEIP | 10 | 10 | 20 | 20 | 25 | 27 | 27 | 30 | 32 | 32 | 35 |
| Cheese | | | | | | | | | | | |
| Supply | 8,839 | 9,291 | 9,565 | 9,854 | 10,156 | 10,481 | 10,780 | 11,079 | 11,362 | 11,635 | 11,897 |
| Production | 7,971 | 8,313 | 8,580 | 8,862 | 9,157 | 9,476 | 9,768 | 10,060 | 10,335 | 10,602 | 10,857 |
| Imports | 350 | 357 | 360 | 364 | 368 | 371 | 375 | 379 | 383 | 386 | 390 |
| Utilization | 8,840 | 9,292 | 9,566 | 9,854 | 10,156 | 10,481 | 10,780 | 11,080 | 11,361 | 11,635 | 11,897 |
| Domestic Use | 8,082 | 8,526 | 8,794 | 9,076 | 9,372 | 9,690 | 9,983 | 10,276 | 10,551 | 10,818 | 11,074 |
| Exports | 84 | 87 | 90 | 93 | 96 | 99 | 102 | 105 | 108 | 111 | 114 |
| Shipments | 53 | 54 | 54 | 54 | 54 | 55 | 55 | 55 | 55 | 56 | 56 |
| Ending Stocks | 621 | 625 | 628 | 631 | 634 | 637 | 640 | 644 | 647 | 650 | 653 |
| CCC Removals | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DEIP | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Nonfat Dry Milk | | | | | | | | | | | |
| Supply | 1,548 | 1,676 | 1,687 | 1,575 | 1,465 | 1,456 | 1,447 | 1,432 | 1,421 | 1,410 | 1,401 |
| Production | 1,385 | 1,393 | 1,385 | 1,379 | 1,369 | 1,361 | 1,352 | 1,338 | 1,328 | 1,317 | 1,309 |
| Imports | 12 | 12 | 12 | 13 | 13 | 13 | 14 | 14 | 14 | 15 | 15 |
| Utilization | 1,545 | 1,676 | 1,687 | 1,575 | 1,465 | 1,457 | 1,447 | 1,432 | 1,421 | 1,409 | 1,401 |
| Domestic Use | 1,028 | 1,133 | 1,264 | 1,257 | 1,214 | 1,207 | 1,198 | 1,184 | 1,174 | 1,163 | 1,156 |
| Exports | 240 | 247 | 234 | 229 | 163 | 163 | 163 | 163 | 163 | 163 | 163 |
| Shipments | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Feed, Waste | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Ending Stocks | 271 | 290 | 183 | 83 | 82 | 81 | 80 | 79 | 78 | 77 | 76 |
| CCC Removals | 236 | 126 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DEIP | 245 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 |
| Prices | | | | | (Cen | ts per Pou | ınd) | | | | |
| Butter Wholesale | 125.65 | 108.84 | 113.50 | 111.44 | 114.44 | 115.35 | 114.96 | 118.46 | 118.27 | 118.51 | 117.53 |
| Butter CCC | 65.00 | 65.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cheese Wholesale 40 lb. Block | 141.89 | 125.85 | 128.45 | 129.42 | 130.30 | 130.64 | 131.55 | 131.93 | 132.63 | 133.17 | 134.15 |
| Cheese CCC | 110.05 | 110.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NFD Wholesale | 103.58 | 103.84 | 82.70 | 87.77 | 92.12 | 92.22 | 92.72 | 95.15 | 96.02 | 97.16 | 96.33 |
| NFD CCC | 100.93 | 100.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Puttor Potoil | 0.65 | 2.40 | 0.47 | 2.44 | | rs per Po | | 2.54 | 254 | 254 | 2.52 |
| Butter Retail Cheese Retail | 2.65 3.81 | 2.40 3.44 | 2.47 3.52 | 2.44 3.57 | 2.48 3.61 | 2.50 3.64 | 2.49 3.69 | 2.54 3.72 | 2.54 3.76 | 2.54 3.80 | 2.53 3.84 |
| Choese Netali | 3.01 | 3.44 | 3.32 | 3.31 | 3.01 | 3.04 | 3.03 | 3.12 | 3.70 | 3.00 | 3.04 |
| Per Capita Consumption | | | | | | (Pounds) | | | | | |
| Butter | 4.3 | 4.3 | 4.2 | 4.2 | 4.2 | 4.1 | 4.1 | 4.1 | 4.0 | 4.0 | 3.9 |
| Cheese | 29.7 | 31.1 | 31.8 | 32.5 | 33.3 | 34.2 | 34.9 | 35.7 | 36.3 | 36.9 | 37.5 |
| NFD | 3.6 | 4.0 | 4.4 | 4.4 | 4.3 | 4.3 | 4.2 | 4.1 | 4.0 | 4.0 | 3.9 |

U.S. AGGREGATE MEASURES

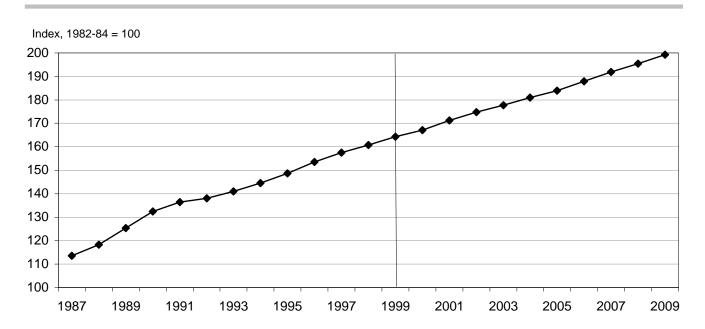
U.S. Land Use



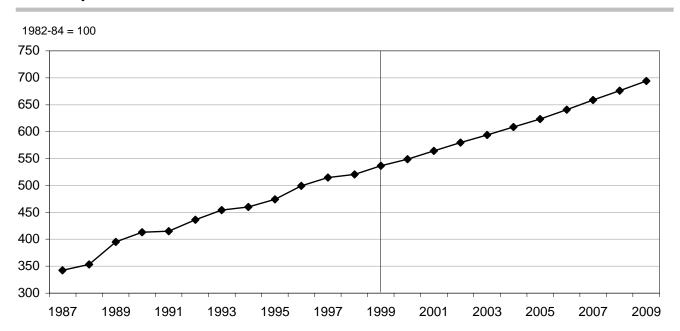
Value of U.S. Agricultural Exports, Fiscal Year



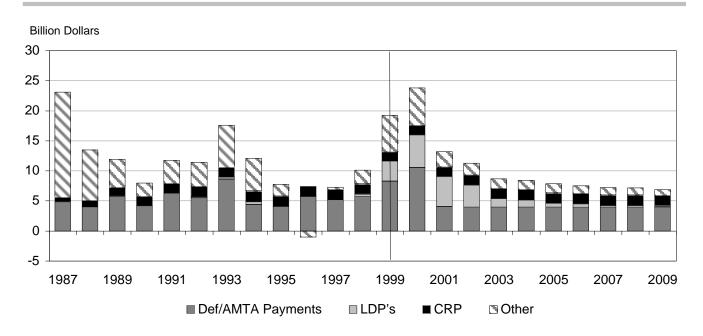
Consumer Price Index for Food



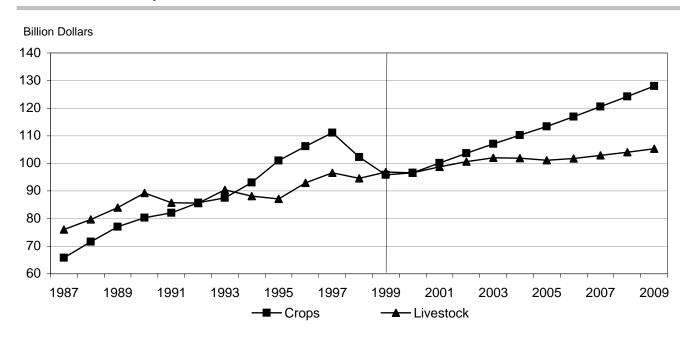
Real Expenditures for Food



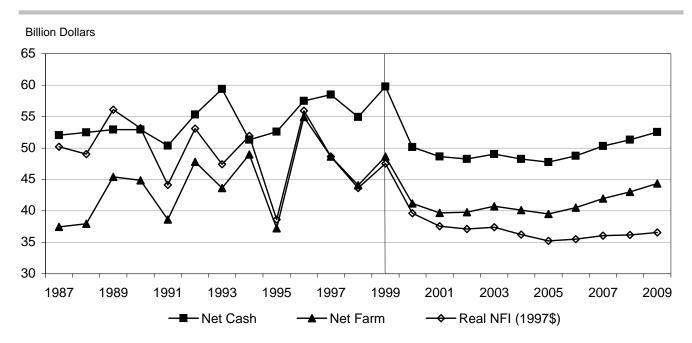
Government Outlays, Fiscal Year



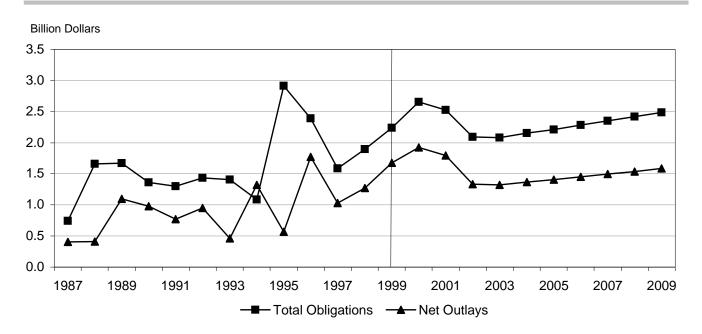
U.S. Cash Receipts



U.S. Farm Income



Crop Insurance Outlays, Fiscal Year



U.S. Land Use

- Under the provisions of the FAIR Act, CRP enrollment is capped at 36.4 million acres. Through 1999, CRP enrollment stood at 29.8 million acres.
- Original CRP contracts began to expire in 1997/98, and total CRP area fell to 30.5 million acres by 1998/99, as some contracts were not immediately extended. It is assumed that contract holders may re-bid their land and that new land may also be bid into the CRP. While not all bids will be accepted and some current contracts will not be extended, the net effect is an increase in CRP area starting in 2000/01. Area in the program reaches 36 million acres by 2006/07. FAPRI assumes that the Secretary of Agriculture will seek to maintain the CRP area at or very near the maximum acreage through the use of continuous sign-ups of riparian area and filter strips, state incentive programs, and traditional announced sign-ups.
- Given the price paths of program crops, the planting flexibility provisions of the FAIR Act allow feed grain and oilseed area to expand at the cost of cotton and rice area. This shifting is a continuation of the changes occurring while normal flex acres existed.
- Total area planted to 15 principal crops decreased in 1999/00 due to lower prices for most key commodities. For the 2000 crop year, planted area of the 15 crops is projected to total 258.2 million acres. The higher commodity prices in the last years of the baseline pull land back into production. By 2009/10, planted area reaches 263 million acres

U.S. Planted and Idled Area

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | | | (Mi | llion Acres | 5) | | | | |
| 15-Crop Total Area | 288.1 | 289.5 | 290.9 | 292.9 | 294.2 | 295.4 | 296.0 | 297.0 | 297.6 | 298.2 | 298.5 |
| Planted | 258.3 | 258.2 | 258.4 | 259.4 | 259.7 | 260.4 | 260.5 | 261.0 | 261.6 | 262.2 | 263.0 |
| Annual Idled | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CRP | 29.8 | 31.3 | 32.5 | 33.5 | 34.5 | 35.0 | 35.5 | 36.0 | 36.0 | 36.0 | 35.5 |
| Wheat Total Area | 72.1 | 71.8 | 73.4 | 75.6 | 76.4 | 77.0 | 76.9 | 77.2 | 77.4 | 77.6 | 77.6 |
| Planted | 62.8 | 62.1 | 63.3 | 65.2 | 65.7 | 66.1 | 65.8 | 66.0 | 66.2 | 66.4 | 66.6 |
| Annual Idled | NA |
| CRP | 9.3 | 9.7 | 10.1 | 10.4 | 10.7 | 10.9 | 11.0 | 11.2 | 11.2 | 11.2 | 11.0 |
| Corn Total Area | 80.3 | 80.3 | 81.3 | 83.2 | 82.9 | 83.6 | 83.4 | 84.1 | 84.0 | 84.4 | 84.3 |
| Planted | 77.4 | 77.2 | 78.1 | 79.9 | 79.4 | 80.1 | 79.9 | 80.5 | 80.4 | 80.8 | 80.8 |
| Annual Idled | NA |
| CRP | 2.9 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.5 | 3.6 | 3.6 | 3.6 | 3.5 |
| Sorghum Total Area | 11.4 | 11.6 | 11.5 | 11.5 | 11.5 | 11.6 | 11.6 | 11.6 | 11.5 | 11.5 | 11.4 |
| Planted | 9.3 | 9.4 | 9.3 | 9.2 | 9.1 | 9.1 | 9.1 | 9.1 | 9.0 | 9.0 | 8.9 |
| Annual Idled | NA |
| CRP | 2.1 | 2.2 | 2.3 | 2.3 | 2.4 | 2.4 | 2.4 | 2.5 | 2.5 | 2.5 | 2.4 |
| Barley Total Area | 7.7 | 7.9 | 8.0 | 8.0 | 8.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8.0 | 8.0 |
| Planted | 5.2 | 5.3 | 5.2 | 5.1 | 5.1 | 5.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Annual Idled | NA |
| CRP | 2.5 | 2.6 | 2.8 | 2.9 | 2.9 | 3.0 | 3.0 | 3.1 | 3.1 | 3.1 | 3.0 |
| Oats Total Area | 5.8 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.6 | 5.6 | 5.6 | 5.5 | 5.5 |
| Planted | 4.7 | 4.6 | 4.6 | 4.5 | 4.4 | 4.4 | 4.4 | 4.3 | 4.3 | 4.2 | 4.2 |
| Annual Idled CRP | NA 1.1 | NA 1.1 | NA 1.2 | NA 1.2 | NA 1.3 |
| | | | | | | | | | | | |
| Soybean Total Area | 76.5 73.8 | 77.5 74.5 | 76.3 73.2 | 74.3 71.0 | 74.9 71.6 | 74.7 71.3 | 75.6 72.2 | 75.4 71.9 | 76.1 72.6 | 76.3 72.8 | 76.9 73.5 |
| Planted CRP | 2.8 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 |
| | | | | | | | | | | | |
| Cotton Total Area | 15.8 | 16.1 | 15.7 | 15.4 | 15.3 | 15.2 | 15.2 | 15.2 | 15.2 | 15.1 | 15.1 |
| Planted | 14.6 | 14.8 | 14.4 | 14.0 | 13.9 | 13.8 | 13.7 | 13.8 | 13.8 | 13.7 | 13.6 |
| Annual Idled CRP | NA 1.2 | NA 1.3 | NA 1.3 | NA 1.4 | NA 1.4 | NA 1.4 | NA 1.4 | NA 1.5 | NA 1.5 | NA 1.5 | NA 1.4 |
| | | | | | | | | | | | |
| Rice Total Area | 3.6 | 3.5 | 3.5 | 3.5 | 3.4 | 3.4 | 3.4 | 3.4 | 3.3 | 3.3 | 3.3 |
| Planted Annual Idled | 3.6 NA | 3.4 NA | 3.5 NA | 3.5 NA | 3.4 NA | 3.4 NA | 3.4 NA | 3.3 NA | 3.3 NA | 3.3 NA | 3.3 NA |
| CRP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | | | | |
| Sugar Harvested | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.7 |
| Peanuts Planted | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 5 Other Crops* | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.1 | 7.1 | 7.1 | 7.1 | 7.2 | 7.2 |
| Other CRP Area | 7.8 | 8.2 | 8.5 | 8.7 | 9.0 | 9.1 | 9.2 | 9.4 | 9.4 | 9.4 | 9.2 |
| Hay Harvested | 63.2 | 60.8 | 60.1 | 60.1 | 60.1 | 60.2 | 60.2 | 60.3 | 60.5 | 60.5 | 60.6 |
| 15 Crops + Hay | 351.3 | 350.3 | 351.1 | 353.0 | 354.3 | 355.5 | 356.3 | 357.4 | 358.1 | 358.8 | 359.1 |
| Planted | 321.5 | 319.1 | 318.6 | 319.5 | 319.8 | 320.5 | 320.8 | 321.4 | 322.1 | 322.8 | 323.6 |
| Annual Idled | NA |
| CRP | 29.8 | 31.3 | 32.5 | 33.5 | 34.5 | 35.0 | 35.5 | 36.0 | 36.0 | 36.0 | 35.5 |

 $^{^{\}star}$ Planted area of sunflowers, edible beans, and flaxseed. Harvested area for tobacco and rye.

U.S. Wheat Production

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | | | (Mil | lion Acres |) | | | | |
| CRP Idled | 9.30 | 9.72 | 10.12 | 10.42 | 10.73 | 10.89 | 11.04 | 11.19 | 11.19 | 11.19 | 11.04 |
| Corn Belt | 0.59 | 0.60 | 0.63 | 0.64 | 0.66 | 0.67 | 0.67 | 0.68 | 0.68 | 0.68 | 0.68 |
| Central Plains | 2.14 | 2.22 | 2.34 | 2.41 | 2.48 | 2.52 | 2.56 | 2.59 | 2.59 | 2.59 | 2.56 |
| Delta States | 0.20 | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Far West | 0.91 | 0.98 | 0.98 | 1.01 | 1.04 | 1.05 | 1.07 | 1.08 | 1.08 | 1.08 | 1.07 |
| Lake States | 0.30 | 0.34 | 0.33 | 0.34 | 0.35 | 0.36 | 0.36 | 0.37 | 0.37 | 0.37 | 0.36 |
| Northeast | 0.01 2.79 | 0.01 | 0.01 | 0.01 3.17 | 0.01 | 0.01 3.31 | 0.01 | 0.01 3.40 | 0.01 3.40 | 0.01 3.40 | 0.01 3.36 |
| Northern Plains Southeast | 0.32 | 2.85 0.35 | 3.07 0.35 | 0.37 | 3.26 0.38 | 0.38 | 3.36 0.39 | 0.39 | 0.39 | 0.39 | 0.39 |
| Southern Plains | 2.04 | 2.16 | 2.18 | 2.25 | 2.32 | 2.35 | 2.38 | 2.42 | 2.42 | 2.42 | 2.38 |
| Planted Area | 62.81 | 62.06 | 63.29 | 65.19 | 65.69 | 66.12 | 65.85 | 66.02 | 66.20 | 66.37 | 66.60 |
| Corn Belt | 3.67 | 3.54 | 3.64 | 3.95 | 3.99 | 4.03 | 3.94 | 3.95 | 3.92 | 3.90 | 3.87 |
| Central Plains | 14.65 | 14.25 | 14.31 | 14.68 | 14.75 | 14.79 | 14.68 | 14.68 | 14.68 | 14.67 | 14.67 |
| Delta States | 1.26 | 1.46 | 1.51 | 1.50 | 1.59 | 1.61 | 1.63 | 1.63 | 1.66 | 1.68 | 1.72 |
| Far West | 5.68 | 5.66 | 5.74 | 5.91 | 5.95 | 6.01 | 6.00 | 6.04 | 6.07 | 6.11 | 6.15 |
| Lake States | 2.79 | 2.68 | 2.66 | 2.81 | 2.85 | 2.88 | 2.85 | 2.86 | 2.86 | 2.86 | 2.87 |
| Northeast | 0.67 | 0.70 | 0.69 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| Northern Plains | 18.29 | 18.61 | 19.00 | 19.48 | 19.62 | 19.76 | 19.75 | 19.86 | 19.96 | 20.04 | 20.14 |
| Southeast | 2.76 | 2.79 | 2.77 | 2.81 | 2.86 | 2.85 | 2.86 | 2.84 | 2.85 | 2.86 | 2.89 |
| Southern Plains | 13.05 | 12.37 | 12.97 | 13.34 | 13.38 | 13.47 | 13.41 | 13.44 | 13.48 | 13.52 | 13.58 |
| Harvested Area | 53.91 | 54.88 | 56.07 | 57.75 | 58.20 | 58.58 | 58.35 | 58.50 | 58.66 | 58.81 | 59.01 |
| Corn Belt | 3.50 | 3.31 | 3.40 | 3.69 | 3.73 | 3.77 | 3.68 | 3.69 | 3.67 | 3.65 | 3.62 |
| Central Plains | 13.45 | 13.23 | 13.48 | 13.80 | 13.86 | 13.90 | 13.80 | 13.80 | 13.80 | 13.79 | 13.80 |
| Delta States | 1.19 | 1.34 | 1.39 | 1.39 | 1.46 | 1.48 | 1.51 | 1.50 | 1.53 | 1.55 | 1.58 |
| Far West | 5.15 | 5.37 | 5.44 | 5.59 | 5.63 | 5.68 | 5.68 | 5.71 | 5.74 | 5.78 | 5.82 |
| Lake States | 2.72 | 2.60 | 2.58 | 2.72 | 2.76 | 2.79 | 2.76 | 2.77 | 2.77 | 2.77 | 2.78 |
| Northeast | 0.63 | 0.67 | 0.66 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 |
| Northern Plains | 17.19 | 17.75 | 18.12 | 18.58 | 18.71 | 18.85 | 18.84 | 18.94 | 19.03 | 19.11 | 19.20 |
| Southeast | 2.11 | 2.22 | 2.21 | 2.24 | 2.29 | 2.29 | 2.29 | 2.27 | 2.29 | 2.29 | 2.32 |
| Southern Plains | 7.97 | 8.40 | 8.80 | 9.05 | 9.08 | 9.14 | 9.10 | 9.12 | 9.15 | 9.18 | 9.22 |
| | | | | | | els per Ac | | | | | |
| Yield | 42.7 | 40.0 | 40.2 | 40.4 | 40.7 | 41.0 | 41.2 | 41.5 | 41.7 | 42.0 | 42.2 |
| Corn Belt | 60.5 | 52.8 | 53.2 | 53.5 | 53.8 | 54.2 | 54.6 | 54.9 | 55.3 | 55.6 | 55.9 |
| Central Plains | 46.5 | 37.4 | 37.6 | 37.8 | 38.0 | 38.2 | 38.4 | 38.6 | 38.8 | 39.0 | 39.2 |
| Delta States | 54.4 | 47.6 | 48.2 | 48.8 | 49.4 | 49.9 | 50.5 | 51.1 | 51.6 | 52.2 | 52.7 |
| Far West | 62.1 47.1 | 69.0 40.8 | 69.6 | 70.1 41.0 | 70.6 41.1 | 71.2 41.2 | 71.7 41.3 | 72.3 41.4 | 72.8 41.5 | 73.3 41.6 | 73.8 41.7 |
| Lake States Northeast | 58.6 | 58.3 | 40.9 59.2 | 60.0 | 60.9 | 61.7 | 62.5 | 63.3 | 64.1 | 64.9 | 65.6 |
| Northern Plains | 30.4 | 32.4 | 32.5 | 32.7 | 32.8 | 33.0 | 33.1 | 33.3 | 33.4 | 33.6 | 33.7 |
| Southeast | 51.5 | 49.4 | 50.2 | 51.1 | 51.9 | 52.6 | 53.4 | 54.2 | 54.9 | 55.7 | 56.4 |
| Southern Plains | 35.5 | 31.0 | 31.1 | 31.3 | 31.4 | 31.6 | 31.7 | 31.9 | 32.1 | 32.2 | 32.4 |
| | 33.3 | 00 | 0 | 00 | | on Bushel | | 00 | 02 | 02.2 | 02 |
| Production | 2,302 | 2,195 | 2,253 | 2,336 | 2,370 | 2,401 | 2,407 | 2,427 | 2,449 | 2,470 | 2,493 |
| Corn Belt | 212 | 175 | 181 | 197 | 201 | 204 | 201 | 203 | 203 | 203 | 203 |
| Central Plains | 626 | 495 | 507 | 522 | 527 | 531 | 530 | 533 | 536 | 538 | 541 |
| Delta States | 65 | 64 | 67 | 68 | 72 | 74 | 76 | 77 | 79 | 81 | 84 |
| Far West | 320 | 370 | 378 | 392 | 397 | 404 | 407 | 412 | 418 | 423 | 429 |
| Lake States | 128 | 106 | 106 | 112 | 114 | 115 | 114 | 115 | 115 | 116 | 116 |
| Northeast | 37 | 39 | 39 | 41 | 41 | 42 | 42 | 43 | 44 | 44 | 45 |
| Northern Plains | 523 | 575 | 590 | 607 | 614 | 621 | 624 | 630 | 636 | 641 | 647 |
| Southeast | 109 | 110 | 111 | 114 | 119 | 120 | 123 | 123 | 126 | 128 | 131 |
| Southern Plains | 283 | 261 | 274 | 283 | 285 | 289 | 289 | 291 | 293 | 296 | 298 |

U.S. Corn Production

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|------------------|-------|-------|-------|--------|----------------|----------------|--------------|--------|--------|--------|--------|
| | | | | | (Mi | llion Acres | 5) | | | | |
| CRP Idled | 2.92 | 3.10 | 3.23 | 3.33 | 3.44 | 3.49 | 3.54 | 3.60 | 3.60 | 3.60 | 3.54 |
| Corn Belt | 1.36 | 1.42 | 1.52 | 1.57 | 1.62 | 1.65 | 1.67 | 1.70 | 1.70 | 1.70 | 1.67 |
| Central Plains | 0.32 | 0.33 | 0.35 | 0.36 | 0.37 | 0.38 | 0.38 | 0.39 | 0.39 | 0.39 | 0.38 |
| Delta States | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Far West | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Lake States | 0.57 | 0.64 | 0.63 | 0.65 | 0.67 | 0.68 | 0.69 | 0.70 | 0.70 | 0.70 | 0.69 |
| Northeast | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Northern Plains | 0.27 | 0.28 | 0.30 | 0.31 | 0.31 | 0.32 | 0.32 | 0.33 | 0.33 | 0.33 | 0.32 |
| Southeast | 0.24 | 0.26 | 0.27 | 0.27 | 0.28 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 |
| Southern Plains | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| Planted Area | 77.43 | 77.22 | 78.11 | 79.86 | 79.44 | 80.09 | 79.85 | 80.46 | 80.37 | 80.77 | 80.76 |
| Corn Belt | 34.80 | 34.50 | 34.88 | 36.04 | 35.87 | 36.19 | 35.92 | 36.22 | 36.07 | 36.21 | 36.10 |
| Central Plains | 12.98 | 12.88 | 12.99 | 13.03 | 12.99 | 13.07 | 13.12 | 13.20 | 13.24 | 13.31 | 13.35 |
| Delta States | 0.79 | 0.85 | 0.89 | 0.94 | 0.92 | 0.93 | 0.93 | 0.94 | 0.94 | 0.95 | 0.96 |
| Far West | 1.03 | 1.04 | 1.07 | 1.07 | 1.07 | 1.09 | 1.10 | 1.12 | 1.13 | 1.15 | 1.16 |
| Lake States | 12.90 | 12.96 | 13.07 | 13.32 | 13.29 | 13.38 | 13.34 | 13.43 | 13.42 | 13.47 | 13.47 |
| Northeast | 3.68 | 3.67 | 3.71 | 3.75 | 3.70 | 3.72 | 3.71 | 3.73 | 3.72 | 3.73 | 3.73 |
| Northern Plains | 4.57 | 4.67 | 4.69 | 4.69 | 4.68 | 4.72 | 4.77 | 4.82 | 4.85 | 4.90 | 4.93 |
| Southeast | 4.16 | 4.17 | 4.26 | 4.47 | 4.38 | 4.43 | 4.41 | 4.45 | 4.44 | 4.48 | 4.48 |
| Southern Plains | 2.53 | 2.49 | 2.56 | 2.56 | 2.54 | 2.55 | 2.56 | 2.56 | 2.56 | 2.57 | 2.58 |
| Harvested Area | 70.54 | 70.67 | 71.54 | 73.25 | 72.92 | 73.59 | 73.42 | 74.05 | 74.02 | 74.45 | 74.50 |
| Corn Belt | 33.87 | 33.59 | 33.97 | 35.11 | 34.98 | 35.30 | 35.06 | 35.37 | 35.25 | 35.40 | 35.32 |
| Central Plains | 12.40 | 12.30 | 12.40 | 12.44 | 12.40 | 12.48 | 12.52 | 12.60 | 12.64 | 12.71 | 12.75 |
| Delta States | 0.74 | 0.79 | 0.83 | 0.88 | 0.86 | 0.87 | 0.87 | 0.88 | 0.88 | 0.89 | 0.89 |
| Far West | 0.44 | 0.47 | 0.49 | 0.50 | 0.50 | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 |
| Lake States | 11.40 | 11.42 | 11.54 | 11.79 | 11.78 | 11.89 | 11.88 | 11.98 | 12.00 | 12.07 | 12.09 |
| Northeast | 2.06 | 2.31 | 2.34 | 2.36 | 2.33 | 2.34 | 2.34 | 2.35 | 2.35 | 2.35 | 2.35 |
| Northern Plains | 3.98 | 4.07 | 4.09 | 4.10 | 4.10 | 4.15 | 4.19 | 4.25 | 4.29 | 4.34 | 4.38 |
| Southeast Plains | 3.49 | 3.56 | 3.65 | 3.84 | 3.77 | 3.83 | 3.82 | 3.87 | 3.86 | 3.90 | 3.91 |
| Southern Plains | 2.16 | 2.16 | 2.23 | 2.23 | 2.21 | 2.22 | 2.22 | 2.23 | 2.23 | 2.24 | 2.24 |
| Yield | 133.8 | 133.1 | 134.9 | 136.5 | • | els per Ac | re) 142.2 | 143.9 | 145.8 | 147.5 | 149.3 |
| Corn Belt | 137.2 | 139.7 | 141.8 | 143.5 | 138.5 145.9 | 140.3 148.0 | 150.4 | 152.4 | 154.7 | 156.9 | 159.1 |
| Central Plains | 139.8 | 140.9 | 142.2 | 143.5 | 144.9 | 146.1 | 147.4 | 148.6 | 149.8 | 151.0 | 152.2 |
| Delta States | 120.5 | 115.0 | 116.7 | 118.4 | 120.2 | 121.8 | 123.5 | 125.1 | 126.7 | 128.2 | 129.8 |
| Far West | 168.9 | 177.9 | 180.0 | 182.2 | 184.3 | 186.3 | 188.4 | 190.3 | 192.3 | 194.2 | 196.1 |
| Lake States | 144.8 | 129.4 | 131.2 | 132.9 | 134.7 | 136.5 | 138.3 | 140.0 | 141.7 | 143.4 | 145.2 |
| Northeast | 83.3 | 110.9 | 112.2 | 113.4 | 114.6 | 115.8 | 117.0 | 118.2 | 119.4 | 120.5 | 121.7 |
| Northern Plains | 113.7 | 103.9 | 105.4 | 107.0 | 108.6 | 110.1 | 111.5 | 113.0 | 114.4 | 115.8 | 117.2 |
| Southeast | 94.6 | 107.6 | 109.2 | 110.8 | 112.5 | 114.1 | 115.8 | 117.4 | 119.0 | 120.5 | 122.1 |
| Southern Plains | 133.3 | 124.3 | 125.7 | 127.1 | 128.5 | 129.9 | 131.3 | 132.7 | 134.0 | 135.4 | 136.7 |
| | | | | | (Milli | on Bushel | ls) | | | | |
| Production | 9,437 | 9,407 | 9,653 | 10,002 | 10,102 | 10,325 | 10,441 | 10,660 | 10,792 | 10,983 | 11,123 |
| Corn Belt | 4,648 | 4,691 | 4,817 | 5,040 | 5,102 | 5,224 | 5,272 | 5,391 | 5,454 | 5,552 | 5,618 |
| Central Plains | 1,733 | 1,734 | 1,764 | 1,786 | 1,797 | 1,824 | 1,846 | 1,873 | 1,893 | 1,919 | 1,940 |
| Delta States | 89 | 91 | 97 | 104 | 103 | 106 | 107 | 110 | 112 | 114 | 116 |
| Far West | 74 | 83 | 88 | 90 | 92 | 95 | 98 | 101 | 104 | 107 | 110 |
| Lake States | 1,651 | 1,478 | 1,514 | 1,567 | 1,588 | 1,623 | 1,642 | 1,677 | 1,700 | 1,731 | 1,755 |
| Northeast | 172 | 256 | 262 | 268 | 267 | 271 | 274 | 278 | 280 | 284 | 286 |
| Northern Plains | 452 | 422 | 432 | 439 | 445 | 457 | 468 | 480 | 490 | 502 | 513 |
| Southeast | 330 | 383 | 399 | 425 | 424 | 437 | 442 | 454 | 459 | 471 | 478 |
| Southern Plains | 288 | 269 | 280 | 283 | 284 | 288 | 292 | 295 | 299 | 303 | 306 |

U.S. Sorghum Production

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-----------------|-------|-------|-------|-------|--------|------------|-------|-------|-------|-------|-------|
| | | | | | (Mil | lion Acres |) | | | | |
| CRP Idled | 2.12 | 2.19 | 2.25 | 2.32 | 2.38 | 2.42 | 2.45 | 2.48 | 2.48 | 2.48 | 2.45 |
| Corn Belt | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |
| Central Plains | 0.85 | 0.87 | 0.91 | 0.94 | 0.97 | 0.98 | 0.99 | 1.01 | 1.01 | 1.01 | 0.99 |
| Delta States | 0.10 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.12 |
| Far West | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lake States | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Northeast | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Northern Plains | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| Southeast | 0.07 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| Southern Plains | 0.87 | 0.91 | 0.91 | 0.94 | 0.96 | 0.98 | 0.99 | 1.00 | 1.00 | 1.00 | 0.99 |
| Planted Area | 9.29 | 9.43 | 9.26 | 9.22 | 9.13 | 9.15 | 9.11 | 9.08 | 9.00 | 8.98 | 8.95 |
| Corn Belt | 0.42 | 0.44 | 0.43 | 0.44 | 0.44 | 0.44 | 0.43 | 0.43 | 0.42 | 0.41 | 0.40 |
| Central Plains | 4.38 | 4.25 | 4.26 | 4.21 | 4.16 | 4.16 | 4.13 | 4.10 | 4.05 | 4.02 | 3.99 |
| Delta States | 0.43 | 0.43 | 0.42 | 0.44 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.42 |
| Northern Plains | 0.20 | 0.19 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| Southeast | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Southern Plains | 3.74 | 3.99 | 3.85 | 3.83 | 3.81 | 3.83 | 3.83 | 3.83 | 3.82 | 3.84 | 3.84 |
| Harvested Area | 8.54 | 8.53 | 8.38 | 8.34 | 8.26 | 8.28 | 8.24 | 8.22 | 8.15 | 8.13 | 8.10 |
| Corn Belt | 0.41 | 0.43 | 0.42 | 0.43 | 0.43 | 0.43 | 0.42 | 0.41 | 0.40 | 0.40 | 0.39 |
| Central Plains | 4.03 | 3.86 | 3.87 | 3.82 | 3.78 | 3.78 | 3.75 | 3.73 | 3.68 | 3.66 | 3.63 |
| Delta States | 0.42 | 0.40 | 0.39 | 0.41 | 0.40 | 0.40 | 0.40 | 0.40 | 0.39 | 0.40 | 0.39 |
| Northern Plains | 0.08 | 0.12 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Southeast | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 |
| Southern Plains | 3.49 | 3.64 | 3.50 | 3.49 | 3.47 | 3.49 | 3.49 | 3.49 | 3.48 | 3.49 | 3.50 |
| | | | | | (Bush | els per Ac | re) | | | | |
| Yield | 69.7 | 69.0 | 69.9 | 70.6 | 71.2 | 71.9 | 72.4 | 73.1 | 73.6 | 74.2 | 74.8 |
| Corn Belt | 76.7 | 87.1 | 87.7 | 88.2 | 88.8 | 89.4 | 89.9 | 90.4 | 91.0 | 91.5 | 92.0 |
| Central Plains | 76.0 | 77.5 | 78.4 | 79.3 | 80.2 | 81.1 | 82.0 | 82.8 | 83.7 | 84.5 | 85.3 |
| Delta States | 81.5 | 73.8 | 74.6 | 75.4 | 76.2 | 76.9 | 77.7 | 78.4 | 79.1 | 79.9 | 80.6 |
| Northern Plains | 58.0 | 58.9 | 60.0 | 61.2 | 62.3 | 63.4 | 64.5 | 65.5 | 66.6 | 67.7 | 68.7 |
| Southeast | 53.8 | 65.3 | 66.2 | 67.2 | 68.2 | 69.1 | 70.0 | 71.0 | 71.9 | 72.8 | 73.7 |
| Southern Plains | 60.6 | 57.8 | 58.2 | 58.6 | 59.0 | 59.4 | 59.9 | 60.3 | 60.7 | 61.1 | 61.5 |
| | | | | | (Milli | on Bushel | s) | | | | |
| Production | 595 | 589 | 585 | 589 | 588 | 595 | 597 | 600 | 600 | 603 | 606 |
| Corn Belt | 31 | 37 | 37 | 38 | 38 | 38 | 37 | 37 | 37 | 36 | 36 |
| Central Plains | 306 | 300 | 304 | 303 | 303 | 306 | 307 | 309 | 308 | 309 | 310 |
| Delta States | 34 | 29 | 29 | 31 | 30 | 31 | 31 | 31 | 31 | 32 | 32 |
| Northern Plains | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 |
| Southeast | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Southern Plains | 211 | 210 | 204 | 205 | 205 | 207 | 209 | 210 | 211 | 213 | 215 |

U.S. Barley Production

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|------------------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|
| | | | | | (Mil | llion Acres |) | | | | |
| CRP Idled | 2.53 | 2.65 | 2.77 | 2.86 | 2.94 | 2.98 | 3.03 | 3.07 | 3.07 | 3.07 | 3.03 |
| Corn Belt | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Central Plains | 0.18 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Delta States | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Far West | 0.62 | 0.67 | 0.66 | 0.68 | 0.70 | 0.71 | 0.72 | 0.73 | 0.73 | 0.73 | 0.72 |
| Lake States | 0.15 | 0.18 | 0.17 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| Northeast | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Northern Plains | 1.53 | 1.56 | 1.69 | 1.74 | 1.79 | 1.81 | 1.84 | 1.87 | 1.87 | 1.87 | 1.84 |
| Southeast | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Southern Plains | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.03 |
| Planted Area | 5.22 | 5.27 | 5.20 | 5.13 | 5.07 | 5.07 | 5.05 | 5.01 | 4.98 | 4.97 | 4.98 |
| Central Plains | 0.12 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Far West | 1.68 | 1.77 | 1.75 | 1.73 | 1.71 | 1.71 | 1.71 | 1.70 | 1.70 | 1.70 | 1.70 |
| Lake States | 0.30 | 0.33 | 0.35 | 0.36 | 0.35 | 0.35 | 0.34 | 0.34 | 0.33 | 0.32 | 0.31 |
| Northeast | 0.17 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 |
| Northern Plains | 2.82 | 2.74 | 2.68 | 2.63 | 2.58 | 2.58 | 2.58 | 2.56 | 2.55 | 2.54 | 2.55 |
| Southeast | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.13 |
| Southern Plains | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Harvested Area | 4.76 | 5.00 | 4.93 | 4.88 | 4.82 | 4.82 | 4.80 | 4.76 | 4.74 | 4.73 | 4.74 |
| Central Plains | 0.10 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| Far West | 1.59 | 1.66 | 1.65 | 1.63 | 1.62 | 1.62 | 1.61 | 1.60 | 1.60 | 1.60 | 1.60 |
| Lake States | 0.27 | 0.31 | 0.32 | 0.33 | 0.33 | 0.33 | 0.32 | 0.31 | 0.30 | 0.30 | 0.29 |
| Northeast | 0.15 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| Northern Plains | 2.55 | 2.65 | 2.59 | 2.55 | 2.51 | 2.51 | 2.50 | 2.49 | 2.48 | 2.48 | 2.48 |
| Southeast | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Southern Plains | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| | | | | | (Bush | els per Ac | re) | | | | |
| Yield | 59.2 | 63.7 | 64.3 | 65.0 | 65.6 | 66.2 | 66.7 | 67.3 | 67.9 | 68.4 | 69.0 |
| Central Plains | 95.7 | 102.2 | 104.0 | 105.7 | 107.4 | 109.0 | 110.6 | 112.2 | 113.7 | 115.2 | 116.7 |
| Far West | 70.4 | 77.4 | 78.1 | 78.7 | 79.4 | 80.0 | 80.6 | 81.2 | 81.8 | 82.4 | 83.0 |
| Lake States | 49.7 | 58.5 | 58.8 | 59.1 | 59.4 | 59.7 | 60.0 | 60.3 | 60.6 | 60.9 | 61.2 |
| Northeast | 76.5 | 76.6 | 77.7 | 78.8 | 79.8 | 80.8 | 81.9 | 82.9 | 83.9 | 84.8 | 85.8 |
| Northern Plains | 50.2 | 53.0 | 53.5 | 54.0 | 54.5 | 55.0 | 55.5 | 55.9 | 56.4 | 56.8 | 57.3 |
| Southeast | 80.9 | 78.6 | 80.0 | 81.3 | 82.6 | 83.8 | 85.1 | 86.3 | 87.5 | 88.7 | 89.8 |
| Southern Plains | 35.9 | 40.1 | 40.2 | 40.3 | 40.4 | 40.5 | 40.6 | 40.7 | 40.8 | 40.9 | 41.0 |
| | | | | | • | on Bushel | , | | | | |
| Production | 282 | 319 | 317 | 317 | 316 | 319 | 320 | 321 | 322 | 324 | 327 |
| Central Plains | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 |
| Far West | 112 | 129 | 129 | 128 | 128 | 129 | 130 | 130 | 131 | 132 | 133 |
| Lake States | 13 | 18 | 19 | 20 | 20 | 20 | 19 | 19 | 18 | 18 | 18 |
| Northeast | 11 | 13 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Northern Plains | 128 | 140 | 139 | 138 | 137 | 138 | 139 | 139 | 140 | 141 | 142 |
| Southeast Diains | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 |
| Southern Plains | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

U.S. Oat Production

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|------------------------------|--------------|--------------|--------------|--------------|---------------|--------------------|--------------|--------------|--------------|--------------|--------------|
| | | | | | • | lion Acres | • | | | | |
| CRP Idled | 1.09 | 1.14 | 1.19 | 1.22 | 1.26 | 1.28 | 1.29 | 1.31 | 1.31 | 1.31 | 1.30 |
| Corn Belt | 0.14 | 0.13 | 0.14 | 0.14 | 0.14 | 0.14 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Central Plains | 0.13 | 0.13 | 0.14 | 0.15 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 0.15 |
| Delta States | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Far West | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Lake States | 0.20 | 0.22 | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Northeast | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Northern Plains | 0.51 | 0.52 | 0.56 | 0.58 | 0.60 | 0.60 | 0.61 | 0.62 | 0.62 | 0.62 | 0.61 |
| Southeast Southern Plains | 0.03 0.06 | 0.03 0.06 | 0.03 0.06 | 0.03 0.06 | 0.03 | 0.03 0.06 | 0.03 | 0.03 0.07 | 0.03 0.07 | 0.03 0.07 | 0.03 0.06 |
| | | | | | 0.06 | | 0.06 | | | | |
| Planted Area | 4.67 | 4.56 | 4.56 | 4.48 | 4.43 | 4.40 | 4.36 | 4.31 | 4.26 | 4.22 | 4.17 |
| Corn Belt | 0.52 | 0.56 | 0.54 | 0.54 | 0.53 | 0.53 | 0.51 | 0.50 | 0.48 | 0.47 | 0.45 |
| Central Plains | 0.31 | 0.32 | 0.31 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.29 | 0.29 | 0.29 |
| Delta States | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Far West | 0.47 | 0.52 | 0.53 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| Lake States | 0.89 | 0.89 | 0.88 | 0.86 | 0.85 | 0.83 | 0.81 | 0.79 | 0.77 | 0.75 | 0.73 |
| Northeast | 0.31 | 0.29 | 0.29 | 0.29 | 0.29 | 0.28 | 0.28 | 0.28 | 0.27 | 0.27 | 0.27 |
| Northern Plains Southeast | 1.20 | 1.15 | 1.16 | 1.13 | 1.12 | 1.12 | 1.12 | 1.11 | 1.11 | 1.11 | 1.11 |
| Southern Plains | 0.22 0.75 | 0.21 0.61 | 0.20 0.63 | 0.20 0.62 | 0.19 0.61 | 0.19 0.61 | 0.19 0.61 | 0.19 0.61 | 0.19 0.61 | 0.19 0.61 | 0.19 0.60 |
| | | | | | | | | | | | |
| Harvested Area | 2.45 | 2.46 | 2.46 | 2.39 | 2.35 | 2.33 | 2.30 | 2.26 | 2.23 | 2.19 | 2.16 |
| Corn Belt | 0.38 | 0.39 | 0.38 | 0.38 | 0.38 | 0.37 | 0.36 | 0.36 | 0.35 | 0.34 | 0.33 |
| Central Plains | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Delta States | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Far West Lake States | 0.10 0.68 | 0.09 0.67 | 0.10 | 0.09 0.64 | 0.09 | 0.09 0.61 | 0.09 | 0.09 0.58 | 0.09 | 0.09 0.54 | 0.09 0.52 |
| Northeast | 0.24 | 0.07 | 0.66 0.25 | 0.04 | 0.63 0.24 | 0.01 | 0.60 0.24 | 0.36 | 0.56 0.23 | 0.54 | 0.32 |
| Northern Plains | 0.63 | 0.25 | 0.23 | 0.23 | 0.62 | 0.62 | 0.62 | 0.24 | 0.23 | 0.23 | 0.23 |
| Southeast | 0.03 | 0.03 | 0.10 | 0.03 | 0.02 | 0.02 | 0.02 | 0.10 | 0.10 | 0.10 | 0.10 |
| Southern Plains | 0.14 | 0.13 | 0.10 | 0.14 | 0.14 | 0.14 | 0.10 | 0.10 | 0.13 | 0.10 | 0.10 |
| Councillians | 0.14 | 0.10 | 0.14 | 0.14 | | | | 0.10 | 0.10 | 0.10 | 0.10 |
| Yield | 59.6 | 59.8 | 60.0 | 60.4 | (Bush 60.6 | els per Ac 60.9 | re) 61.2 | 61.4 | 61.7 | 61.9 | 62.2 |
| Corn Belt | 66.2 | 64.7 | 64.8 | 64.9 | 65.0 | 65.2 | 65.3 | 65.4 | 65.5 | 65.5 | 65.6 |
| Central Plains | 56.0 | 58.4 | 59.1 | 59.7 | 60.4 | 61.0 | 61.6 | 62.3 | 62.9 | 63.5 | 64.1 |
| Delta States | 91.0 | 79.2 | 79.8 | 80.5 | 81.1 | 81.8 | 82.4 | 83.1 | 83.7 | 84.3 | 85.0 |
| Far West | 81.3 | 85.6 | 86.3 | 86.9 | 87.6 | 88.3 | 88.9 | 89.5 | 90.1 | 90.8 | 91.4 |
| Lake States | 61.0 | 59.5 | 59.6 | 59.8 | 59.9 | 60.0 | 60.1 | 60.2 | 60.3 | 60.4 | 60.5 |
| Northeast | 60.8 | 60.5 | 60.6 | 60.6 | 60.7 | 60.7 | 60.8 | 60.8 | 60.9 | 61.0 | 61.0 |
| Northern Plains | 55.3 | 56.4 | 56.9 | 57.4 | 57.9 | 58.3 | 58.8 | 59.2 | 59.7 | 60.1 | 60.6 |
| Southeast | 55.6 | 60.4 | 60.6 | 60.9 | 61.1 | 61.4 | 61.6 | 61.8 | 62.1 | 62.3 | 62.5 |
| Southern Plains | 43.8 | 44.1 | 44.3 | 44.5 | 44.7 | 44.9 | 45.1 | 45.2 | 45.4 | 45.6 | 45.8 |
| | | | | | | | | | | | |
| Production | 146 | 147 | 148 | 144 | 143 | on Bushel 142 | s) 141 | 139 | 137 | 136 | 134 |
| Corn Belt | 25 | 25 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 22 | 22 |
| Central Plains | 9 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Delta States | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Far West | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Lake States | 41 | 40 | 40 | 38 | 38 | 37 | 36 | 35 | 34 | 33 | 31 |
| Northeast | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 |
| Northern Plains | 35 | 36 | 37 | 36 | 36 | 36 | 36 | 36 | 36 | 37 | 37 |
| Southeast | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Southern Plains | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

U.S. Hay Production

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-----------------|-------|-------|-------|-------|-------|------------|-------|-------|-------|-------|-------|
| | | | | | (Mil | lion Acres |) | | | | |
| Harvested Area | 63.16 | 60.82 | 60.12 | 60.10 | 60.11 | 60.17 | 60.25 | 60.34 | 60.45 | 60.54 | 60.58 |
| Corn Belt | 8.20 | 7.99 | 7.87 | 7.89 | 7.90 | 7.92 | 7.94 | 7.96 | 7.99 | 8.01 | 8.02 |
| Central Plains | 7.42 | 7.46 | 7.46 | 7.46 | 7.45 | 7.44 | 7.43 | 7.43 | 7.42 | 7.42 | 7.42 |
| Delta States | 2.47 | 2.26 | 2.28 | 2.30 | 2.31 | 2.31 | 2.32 | 2.33 | 2.34 | 2.35 | 2.35 |
| Far West | 6.26 | 6.18 | 6.16 | 6.15 | 6.15 | 6.14 | 6.14 | 6.14 | 6.13 | 6.13 | 6.13 |
| Lake States | 6.35 | 6.04 | 5.87 | 5.82 | 5.79 | 5.76 | 5.74 | 5.72 | 5.70 | 5.68 | 5.65 |
| Northeast | 4.98 | 4.79 | 4.63 | 4.60 | 4.59 | 4.59 | 4.60 | 4.61 | 4.62 | 4.62 | 4.63 |
| Northern Plains | 10.79 | 10.51 | 10.43 | 10.41 | 10.38 | 10.36 | 10.34 | 10.32 | 10.31 | 10.30 | 10.29 |
| Southeast | 8.22 | 8.02 | 7.99 | 8.05 | 8.10 | 8.16 | 8.23 | 8.29 | 8.35 | 8.41 | 8.44 |
| Southern Plains | 8.47 | 7.58 | 7.42 | 7.42 | 7.44 | 7.47 | 7.51 | 7.55 | 7.59 | 7.63 | 7.65 |
| | | | | | (Ton | s per Acre | e) | | | | |
| Yield | 2.52 | 2.57 | 2.59 | 2.60 | 2.62 | 2.63 | 2.64 | 2.65 | 2.67 | 2.68 | 2.69 |
| Corn Belt | 2.59 | 2.69 | 2.70 | 2.71 | 2.72 | 2.73 | 2.74 | 2.74 | 2.75 | 2.76 | 2.77 |
| Central Plains | 2.62 | 2.56 | 2.58 | 2.61 | 2.63 | 2.65 | 2.67 | 2.69 | 2.71 | 2.74 | 2.76 |
| Delta States | 1.99 | 2.33 | 2.34 | 2.35 | 2.36 | 2.37 | 2.38 | 2.39 | 2.40 | 2.41 | 2.42 |
| Far West | 4.12 | 4.28 | 4.32 | 4.35 | 4.39 | 4.42 | 4.46 | 4.49 | 4.53 | 4.56 | 4.59 |
| Lake States | 3.00 | 2.88 | 2.88 | 2.88 | 2.88 | 2.88 | 2.88 | 2.88 | 2.88 | 2.88 | 2.88 |
| Northeast | 1.80 | 2.26 | 2.27 | 2.27 | 2.28 | 2.28 | 2.29 | 2.29 | 2.30 | 2.30 | 2.31 |
| Northern Plains | 2.11 | 1.90 | 1.91 | 1.92 | 1.93 | 1.94 | 1.95 | 1.96 | 1.97 | 1.98 | 1.99 |
| Southeast | 2.07 | 2.32 | 2.35 | 2.38 | 2.40 | 2.43 | 2.45 | 2.47 | 2.50 | 2.52 | 2.54 |
| Southern Plains | 2.34 | 2.28 | 2.29 | 2.29 | 2.29 | 2.29 | 2.29 | 2.30 | 2.30 | 2.30 | 2.30 |
| | | | | | (Mi | llion Tons |) | | | | |
| Production | 159.1 | 156.4 | 155.6 | 156.4 | 157.2 | 158.1 | 159.1 | 160.1 | 161.1 | 162.1 | 162.9 |
| Corn Belt | 21.2 | 21.5 | 21.3 | 21.4 | 21.5 | 21.6 | 21.7 | 21.9 | 22.0 | 22.1 | 22.2 |
| Central Plains | 19.5 | 19.1 | 19.3 | 19.4 | 19.6 | 19.7 | 19.9 | 20.0 | 20.2 | 20.3 | 20.4 |
| Delta States | 4.9 | 5.3 | 5.3 | 5.4 | 5.4 | 5.5 | 5.5 | 5.6 | 5.6 | 5.7 | 5.7 |
| Far West | 25.8 | 26.4 | 26.6 | 26.8 | 27.0 | 27.2 | 27.4 | 27.6 | 27.8 | 27.9 | 28.1 |
| Lake States | 19.1 | 17.4 | 16.9 | 16.8 | 16.7 | 16.6 | 16.5 | 16.5 | 16.4 | 16.4 | 16.3 |
| Northeast | 9.0 | 10.8 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.6 | 10.6 | 10.6 | 10.7 |
| Northern Plains | 22.8 | 19.9 | 19.9 | 20.0 | 20.0 | 20.1 | 20.2 | 20.2 | 20.3 | 20.4 | 20.4 |
| Southeast | 17.0 | 18.6 | 18.8 | 19.1 | 19.5 | 19.8 | 20.2 | 20.5 | 20.8 | 21.2 | 21.5 |
| Southern Plains | 19.8 | 17.3 | 17.0 | 17.0 | 17.0 | 17.1 | 17.2 | 17.3 | 17.4 | 17.5 | 17.6 |

U.S. Soybean Production

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|------------------------------|--------------|--------------|--------------|--------------|-----------------|--------------------|--------------|--------------|--------------|--------------|--------------|
| | | | | | (Mil | lion Acres |) | | | | |
| CRP Idled | 2.77 | 2.97 | 3.12 | 3.23 | 3.34 | 3.40 | 3.45 | 3.51 | 3.51 | 3.51 | 3.44 |
| Corn Belt | 1.63 | 1.69 | 1.79 | 1.85 | 1.91 | 1.93 | 1.96 | 1.99 | 1.99 | 1.99 | 1.96 |
| Central Plains | 0.10 | 0.12 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| Delta States | 0.34 | 0.38 | 0.38 | 0.40 | 0.41 | 0.42 | 0.42 | 0.43 | 0.43 | 0.43 | 0.42 |
| Far West | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lake States | 0.37 | 0.43 | 0.42 | 0.44 | 0.45 | 0.46 | 0.47 | 0.48 | 0.48 | 0.48 | 0.47 |
| Northeast | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Northern Plains | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 | 0.21 | 0.22 | 0.22 | 0.22 | 0.21 |
| Southeast | 0.07 | 0.10 | 0.12 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 | 0.15 | 0.15 | 0.14 |
| Southern Plains | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Planted Area | 73.78 | 74.53 | 73.23 | 71.03 | 71.58 | 71.32 | 72.15 | 71.93 | 72.59 | 72.80 | 73.47 |
| Corn Belt | 37.00 | 37.60 | 36.90 | 35.62 | 35.66 | 35.40 | 35.73 | 35.49 | 35.70 | 35.66 | 35.86 |
| Central Plains | 7.15 | 7.25 | 7.16 | 6.93 | 7.01 | 7.04 | 7.22 | 7.29 | 7.45 | 7.56 | 7.72 |
| Delta States | 6.42 | 6.35 | 6.36 | 6.22 | 6.44 | 6.48 | 6.57 | 6.57 | 6.66 | 6.71 | 6.80 |
| Lake States | 10.30 | 10.50 | 10.22 | 10.00 | 10.04 | 10.03 | 10.15 | 10.16 | 10.25 | 10.29 | 10.38 |
| Northeast | 1.30 | 1.26 | 1.22 | 1.16 | 1.22 | 1.21 | 1.23 | 1.21 | 1.23 | 1.22 | 1.24 |
| Northern Plains | 5.45 | 5.57 | 5.41 | 5.23 | 5.23 | 5.20 | 5.23 | 5.23 | 5.27 | 5.29 | 5.34 |
| Southeast | 5.28 | 5.16 | 5.11 | 5.03 | 5.14 | 5.14 | 5.19 | 5.17 | 5.22 | 5.23 | 5.29 |
| Southern Plains | 0.88 | 0.85 | 0.84 | 0.83 | 0.83 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.83 |
| Harvested Area | 72.48 | 73.47 | 72.19 | 70.02 | 70.55 | 70.30 | 71.12 | 70.90 | 71.55 | 71.75 | 72.41 |
| Corn Belt | 36.83 | 37.30 | 36.61 | 35.33 | 35.38 | 35.12 | 35.45 | 35.21 | 35.42 | 35.38 | 35.58 |
| Central Plains | 7.05 | 7.12 | 7.04 | 6.81 | 6.89 | 6.91 | 7.09 | 7.16 | 7.32 | 7.43 | 7.58 |
| Delta States | 6.24 | 6.22 | 6.23 | 6.10 | 6.31 | 6.34 | 6.44 | 6.44 | 6.52 | 6.57 | 6.66 |
| Lake States | 10.14 | 10.34 | 10.07 | 9.85 | 9.89 | 9.88 | 10.00 | 10.00 | 10.09 | 10.14 | 10.23 |
| Northeast | 1.13 | 1.24 | 1.20 | 1.14 | 1.20 | 1.19 | 1.20 | 1.19 | 1.21 | 1.20 | 1.21 |
| Northern Plains | 5.41 | 5.49 | 5.33 | 5.15 | 5.15 | 5.13 | 5.16 | 5.15 | 5.19 | 5.22 | 5.27 |
| Southeast | 4.94 | 4.98 | 4.93 | 4.85 | 4.96 | 4.96 | 5.01 | 4.98 | 5.03 | 5.05 | 5.10 |
| Southern Plains | 0.74 | 0.79 | 0.79 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 |
| | | | | | • | els per Ac | , | | | | |
| Yield | 36.5 | 39.9 | 40.6 | 41.4 | 41.9 | 42.5 | 42.9 | 43.5 | 43.9 | 44.4 | 44.8 |
| Corn Belt | 39.3 | 44.0 | 44.9 | 46.0 | 46.6 | 47.3 | 47.8 | 48.5 | 49.0 | 49.6 | 50.1 |
| Central Plains | 36.7 | 40.0 | 40.7 | 41.4 | 41.9 | 42.5 | 43.0 | 43.6 | 44.1 | 44.6 | 45.1 |
| Delta States | 26.5 | 30.4 | 30.8 | 31.3 | 31.6 | 32.0 | 32.4 | 32.8 | 33.1 | 33.5 | 33.8 |
| Lake States | 41.4 | 39.0 | 39.5 | 40.1 | 40.5 | 41.0 | 41.3 | 41.8 | 42.1 | 42.5 | 42.9 |
| Northeast | 28.6 | 35.7 | 36.1 | 36.5 | 36.9 | 37.3 | 37.6 | 38.0 | 38.4 | 38.8 | 39.1 |
| Northern Plains | 35.8 | 32.5 | 32.9 | 33.4 | 33.7 | 34.1 | 34.4 | 34.8 | 35.1 | 35.4 | 35.7 |
| Southeast Southern Plains | 21.0 23.1 | 33.8 28.3 | 34.4 28.6 | 34.9 28.9 | 35.5 29.1 | 36.0 29.4 | 36.6 29.7 | 37.1 30.0 | 37.6 30.2 | 38.2 30.5 | 38.7 30.8 |
| Oddilem i lains | 20.1 | 20.5 | 20.0 | 20.3 | | | | 30.0 | 30.2 | 30.3 | 30.0 |
| Production | 2,643 | 2,929 | 2,930 | 2,899 | (Milli 2,955 | on Bushel 2,985 | s) 3,051 | 3,081 | 3,141 | 3,185 | 3,245 |
| Corn Belt | 1,447 | 1,639 | 1,643 | 1,626 | 1,650 | 1,663 | 1,695 | 1,708 | 1,736 | 1,755 | 1,782 |
| Central Plains | 259 | 285 | 286 | 282 | 289 | 294 | 305 | 312 | 323 | 331 | 342 |
| Delta States | 165 | 189 | 192 | 191 | 200 | 203 | 208 | 211 | 216 | 220 | 225 |
| Lake States | 420 | 403 | 398 | 395 | 401 | 405 | 413 | 418 | 425 | 431 | 439 |
| Northeast | 32 | 44 | 43 | 42 | 44 | 44 | 45 | 45 | 46 | 47 | 48 |
| Northern Plains | 193 | 178 | 175 | 172 | 174 | 175 | 177 | 179 | 182 | 185 | 188 |
| Southeast | 104 | 168 | 169 | 172 | 174 | 179 | 183 | 185 | 189 | 193 | 198 |
| Southern Plains | 17 | 22 | 23 | 22 | 22 | 23 | 23 | 23 | 23 | 23 | 24 |

U.S. Rice Production

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|----------------|-------|-------|-------|-------|------------|-------------|--------|-------|-------|-------|-------|
| | | | | | (Mil | llion Acres |) | | | | |
| CRP Idled | 0.012 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 |
| Arkansas | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 |
| California | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Louisiana | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Mississippi | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.002 |
| Missouri | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Texas | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Planted Area | 3.581 | 3.449 | 3.464 | 3.480 | 3.411 | 3.388 | 3.364 | 3.342 | 3.305 | 3.287 | 3.260 |
| Arkansas | 1.650 | 1.540 | 1.567 | 1.575 | 1.537 | 1.531 | 1.518 | 1.512 | 1.494 | 1.488 | 1.476 |
| California | 0.540 | 0.557 | 0.540 | 0.535 | 0.533 | 0.528 | 0.532 | 0.530 | 0.529 | 0.529 | 0.529 |
| Louisiana | 0.620 | 0.635 | 0.635 | 0.644 | 0.625 | 0.619 | 0.610 | 0.603 | 0.592 | 0.586 | 0.577 |
| Mississippi | 0.325 | 0.288 | 0.289 | 0.293 | 0.287 | 0.285 | 0.282 | 0.280 | 0.276 | 0.274 | 0.271 |
| Missouri | 0.186 | 0.159 | 0.159 | 0.159 | 0.157 | 0.156 | 0.155 | 0.154 | 0.152 | 0.151 | 0.150 |
| Texas | 0.260 | 0.270 | 0.274 | 0.273 | 0.271 | 0.269 | 0.267 | 0.264 | 0.261 | 0.259 | 0.257 |
| Harvested Area | 3.562 | 3.422 | 3.436 | 3.451 | 3.384 | 3.361 | 3.337 | 3.316 | 3.279 | 3.262 | 3.235 |
| Arkansas | 1.645 | 1.527 | 1.553 | 1.561 | 1.524 | 1.518 | 1.506 | 1.499 | 1.482 | 1.476 | 1.465 |
| California | 0.535 | 0.554 | 0.537 | 0.532 | 0.531 | 0.526 | 0.530 | 0.527 | 0.526 | 0.526 | 0.527 |
| Louisiana | 0.616 | 0.631 | 0.632 | 0.640 | 0.622 | 0.615 | 0.606 | 0.599 | 0.588 | 0.582 | 0.573 |
| Mississippi | 0.323 | 0.286 | 0.287 | 0.291 | 0.284 | 0.282 | 0.280 | 0.278 | 0.274 | 0.272 | 0.269 |
| Missouri | 0.184 | 0.155 | 0.155 | 0.155 | 0.153 | 0.152 | 0.151 | 0.150 | 0.148 | 0.147 | 0.146 |
| Texas | 0.259 | 0.268 | 0.273 | 0.272 | 0.270 | 0.267 | 0.266 | 0.263 | 0.260 | 0.258 | 0.256 |
| | | | | | (Pour | nds per Ad | re) | | | | |
| Yield | 5,908 | 6,028 | 6,056 | 6,088 | 6,147 | 6,189 | 6,236 | 6,278 | 6,325 | 6,365 | 6,409 |
| Arkansas | 5,900 | 5,880 | 5,918 | 5,965 | 6,033 | 6,084 | 6,138 | 6,188 | 6,242 | 6,290 | 6,340 |
| California | 7,262 | 8,195 | 8,288 | 8,351 | 8,406 | 8,467 | 8,507 | 8,561 | 8,609 | 8,655 | 8,698 |
| Louisiana | 5,004 | 4,749 | 4,772 | 4,791 | 4,822 | 4,848 | 4,874 | 4,899 | 4,925 | 4,949 | 4,973 |
| Mississippi | 5,650 | 5,910 | 5,948 | 5,984 | 6,023 | 6,060 | 6,097 | 6,132 | 6,167 | 6,201 | 6,235 |
| Missouri | 5,400 | 5,360 | 5,385 | 5,409 | 5,434 | 5,457 | 5,480 | 5,503 | 5,525 | 5,547 | 5,568 |
| Texas | 6,004 | 5,919 | 5,916 | 5,922 | 5,929 | 5,936 | 5,943 | 5,951 | 5,958 | 5,965 | 5,973 |
| | | | | | (Million I | Hundredw | eight) | | | | |
| Production | 210.5 | 206.3 | 208.1 | 210.1 | 208.0 | 208.0 | 208.1 | 208.2 | 207.4 | 207.7 | 207.4 |
| Arkansas | 97.0 | 89.8 | 91.9 | 93.1 | 92.0 | 92.4 | 92.4 | 92.8 | 92.5 | 92.9 | 92.9 |
| California | 38.9 | 45.4 | 44.5 | 44.5 | 44.6 | 44.5 | 45.1 | 45.1 | 45.3 | 45.5 | 45.8 |
| Louisiana | 30.8 | 30.0 | 30.2 | 30.7 | 30.0 | 29.8 | 29.5 | 29.4 | 29.0 | 28.8 | 28.5 |
| Mississippi | 18.3 | 16.9 | 17.1 | 17.4 | 17.1 | 17.1 | 17.0 | 17.0 | 16.9 | 16.9 | 16.8 |
| Missouri | 9.9 | 8.3 | 8.3 | 8.4 | 8.3 | 8.3 | 8.3 | 8.2 | 8.2 | 8.2 | 8.1 |
| Texas | 15.6 | 15.9 | 16.2 | 16.1 | 16.0 | 15.9 | 15.8 | 15.6 | 15.5 | 15.4 | 15.3 |

U.S. Upland Cotton Production

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-----------------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|
| | | | | | (Mil | lion Acres | i) | | | | |
| CRP Idled | 1.24 | 1.31 | 1.33 | 1.37 | 1.41 | 1.43 | 1.45 | 1.47 | 1.47 | 1.47 | 1.45 |
| Corn Belt | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Central Plains | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Delta States | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| Far West | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lake States | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Northeast | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Northern Plains | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Southeast | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Southern Plains | 1.14 | 1.20 | 1.21 | 1.25 | 1.29 | 1.30 | 1.32 | 1.34 | 1.34 | 1.34 | 1.32 |
| Planted Area | 14.57 | 14.76 | 14.37 | 14.02 | 13.90 | 13.76 | 13.74 | 13.77 | 13.75 | 13.68 | 13.61 |
| Corn Belt | 0.38 | 0.40 | 0.40 | 0.38 | 0.39 | 0.38 | 0.38 | 0.39 | 0.40 | 0.39 | 0.39 |
| Central Plains | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Delta States | 2.79 | 2.94 | 2.83 | 2.80 | 2.71 | 2.68 | 2.64 | 2.65 | 2.63 | 2.60 | 2.56 |
| Far West | 0.88 | 0.93 | 0.88 | 0.80 | 0.81 | 0.79 | 0.81 | 0.81 | 0.82 | 0.82 | 0.82 |
| Southeast | 4.03 | 4.12 | 4.00 | 3.95 | 3.92 | 3.88 | 3.87 | 3.87 | 3.85 | 3.83 | 3.81 |
| Southern Plains | 6.46 | 6.33 | 6.22 | 6.05 | 6.04 | 5.99 | 6.00 | 6.00 | 6.01 | 5.99 | 5.99 |
| Harvested Area | 13.09 | 13.99 | 13.62 | 13.29 | 13.18 | 13.05 | 13.03 | 13.05 | 13.04 | 12.96 | 12.90 |
| Corn Belt | 0.38 | 0.39 | 0.39 | 0.38 | 0.38 | 0.38 | 0.38 | 0.39 | 0.39 | 0.39 | 0.38 |
| Central Plains | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Delta States | 2.75 | 2.89 | 2.79 | 2.75 | 2.67 | 2.64 | 2.61 | 2.62 | 2.59 | 2.56 | 2.53 |
| Far West | 0.87 | 0.92 | 0.88 | 0.80 | 0.80 | 0.79 | 0.80 | 0.81 | 0.82 | 0.82 | 0.82 |
| Southeast | 3.75 | 4.05 | 3.92 | 3.88 | 3.85 | 3.81 | 3.80 | 3.80 | 3.78 | 3.76 | 3.74 |
| Southern Plains | 5.32 | 5.69 | 5.60 | 5.45 | 5.44 | 5.40 | 5.41 | 5.41 | 5.42 | 5.40 | 5.40 |
| | | | | | (Pour | nds per Ac | re) | | | | |
| Yield | 596 | 648 | 652 | 656 | 661 | 666 | 671 | 677 | 681 | 686 | 690 |
| Corn Belt | 595 | 728 | 737 | 745 | 754 | 762 | 770 | 777 | 785 | 793 | 800 |
| Central Plains | 384 | 439 | 447 | 455 | 463 | 470 | 478 | 485 | 492 | 498 | 505 |
| Delta States | 710 | 769 | 776 | 783 | 789 | 795 | 801 | 806 | 811 | 817 | 822 |
| Far West | 1,246 | 1,227 | 1,234 | 1,243 | 1,248 | 1,253 | 1,258 | 1,262 | 1,267 | 1,272 | 1,277 |
| Southeast | 533 | 654 | 662 | 669 | 676 | 683 | 690 | 696 | 703 | 709 | 715 |
| Southern Plains | 477 | 483 | 488 | 492 | 496 | 500 | 503 | 507 | 510 | 513 | 516 |
| | | | | | (Mil | llion Bales |) | | | | |
| Production | 16.26 | 18.88 | 18.51 | 18.17 | 18.15 | 18.11 | 18.22 | 18.40 | 18.51 | 18.53 | 18.55 |
| Corn Belt | 0.47 | 0.60 | 0.60 | 0.59 | 0.60 | 0.60 | 0.61 | 0.63 | 0.64 | 0.64 | 0.64 |
| Central Plains | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 |
| Delta States | 4.07 | 4.64 | 4.52 | 4.49 | 4.39 | 4.37 | 4.35 | 4.39 | 4.38 | 4.36 | 4.33 |
| Far West | 2.26 | 2.36 | 2.26 | 2.07 | 2.09 | 2.06 | 2.11 | 2.13 | 2.16 | 2.16 | 2.17 |
| Southeast | 4.17 | 5.51 | 5.41 | 5.40 | 5.42 | 5.42 | 5.46 | 5.51 | 5.53 | 5.55 | 5.57 |
| Southern Plains | 5.28 | 5.73 | 5.69 | 5.58 | 5.62 | 5.62 | 5.67 | 5.71 | 5.76 | 5.78 | 5.81 |

U.S. Agricultural Exports

- The value of U.S. agricultural exports reached a record level of \$60 billion in fiscal year (FY) 1996 and since then, both the quantity and value of agricultural exports have been declining, mainly in response to large global supplies and weak import demand.
- The quantity of U.S. exports rebounded in FY 1999. More than 90 percent of the rise resulted from increased exports of feed grains and products.
- The value of agricultural exports fell below \$50 billion in FY 1999 and is likely to bottom out in FY 2000 at just under \$49 billion. Over the next 10 years, the value of agricultural exports is projected to increase by 40 percent, reaching \$69 billion by FY 2009.
- High-value products account for about 60 percent of the total increase in the value of agricultural exports, and the remaining 40 percent is accounted for by bulk commodities such as grains and oilseeds. Within high value products, the export value of animal and animal products is projected to rise by more than 50 percent during the projection period.
- The quantity of U.S. agricultural exports is projected to increase by about 35 mmt during the projection period, with feed grain and oilseeds accounting for most of the increase. In addition, the quantity of animal and animal products is also projected to increase by nearly 30 percent in the next decade.
- Among grain, feed grain exports are expected to increase by 15 mmt, with corn accounting for a major share. Similarly, exports of oilseeds and products are projected to rise by more than 21 percent during the projection period.

Quantity of U.S. Agricultural Exports, Fiscal Year

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|-----------------------------|---------|---------|---------|---------|---------|------------|---------|---------|---------|---------|---------|
| | | | | | (Thous | and Metric | Tons) | | | | |
| Animals and Animal Products | 5,966 | 5,907 | 6,180 | 6,451 | 6,680 | 6,892 | 7,070 | 7,238 | 7,369 | 7,508 | 7,662 |
| Grains and Feeds | 104,576 | 106,755 | 109,834 | 111,692 | 114,360 | 117,585 | 119,365 | 121,531 | 123,706 | 126,633 | 129,144 |
| Wheat (Unmilled and Flour) | 29,867 | 30,954 | 32,181 | 32,796 | 33,328 | 33,894 | 33,964 | 34,284 | 34,553 | 34,822 | 35,096 |
| Rice (Paddy Milled) | 3,076 | 3,075 | 3,363 | 3,439 | 3,435 | 3,331 | 3,252 | 3,184 | 3,109 | 3,021 | 2,948 |
| Feed Grains and Products | 58,398 | 59,196 | 60,542 | 61,447 | 63,394 | 65,904 | 67,489 | 69,171 | 70,844 | 72,595 | 74,619 |
| Other Grains and Feeds | 13,235 | 13,530 | 13,748 | 14,011 | 14,203 | 14,457 | 14,661 | 14,893 | 15,200 | 16,195 | 16,482 |
| Oilseeds and Products | 33,569 | 35,155 | 39,526 | 41,594 | 40,914 | 40,393 | 40,757 | 41,244 | 41,705 | 42,116 | 42,692 |
| Cotton (excl. Linters) | 884 | 1,287 | 1,679 | 1,723 | 1,710 | 1,691 | 1,669 | 1,651 | 1,643 | 1,636 | 1,626 |
| Other Products | 8,784 | 9,240 | 9,852 | 10,218 | 10,447 | 10,706 | 10,928 | 11,179 | 11,431 | 11,706 | 11,991 |
| Total | 153,779 | 158,344 | 167,071 | 171,679 | 174,111 | 177,266 | 179,788 | 182,844 | 185,854 | 189,598 | 193,117 |

Value of U.S. Agricultural Exports, Fiscal Year

| | 99/00 | 00/01 | 01/02 | 02/03 | 03/04 | 04/05 | 05/06 | 06/07 | 07/08 | 08/09 | 09/10 |
|---------------------------------|--------|--------|--------|--------|---------|-----------|--------|--------|--------|--------|--------|
| | | | | | (Millio | n U.S. Do | llars) | | | | |
| Bulk Commodities * | 19,019 | 18,029 | 19,572 | 21,078 | 21,943 | 22,648 | 23,147 | 23,863 | 24,649 | 25,417 | 26,243 |
| High-value Products † | 30,083 | 30,919 | 32,964 | 34,669 | 36,060 | 37,106 | 38,057 | 39,034 | 40,097 | 41,171 | 42,384 |
| Animals and Animal Products | 9,951 | 10,150 | 10,866 | 11,697 | 12,461 | 13,002 | 13,370 | 13,799 | 14,310 | 14,803 | 15,401 |
| Meat and Meat Products | 4,460 | 4,718 | 5,122 | 5,595 | 5,983 | 6,214 | 6,313 | 6,439 | 6,631 | 6,715 | 6,871 |
| Poultry and Poultry Products | 2,050 | 1,925 | 1,991 | 2,124 | 2,265 | 2,387 | 2,489 | 2,591 | 2,702 | 2,827 | 2,958 |
| Dairy Products | 897 | 868 | 870 | 838 | 828 | 822 | 826 | 829 | 835 | 839 | 844 |
| Hides and Skins | 1,108 | 1,306 | 1,446 | 1,602 | 1,759 | 1,909 | 2,046 | 2,204 | 2,374 | 2,610 | 2,860 |
| Other Animal Products | 875 | 907 | 963 | 1,025 | 1,081 | 1,123 | 1,154 | 1,187 | 1,228 | 1,260 | 1,298 |
| Grains and Feeds | 14,272 | 12,996 | 14,368 | 15,340 | 15,902 | 16,681 | 16,970 | 17,606 | 18,121 | 18,741 | 19,296 |
| Wheat (Unmilled and Flour) | 3,913 | 2,871 | 3,358 | 3,881 | 4,148 | 4,391 | 4,404 | 4,567 | 4,702 | 4,839 | 4,969 |
| Rice (Paddy Milled) | 1,010 | 900 | 1,024 | 1,083 | 1,114 | 1,107 | 1,104 | 1,107 | 1,105 | 1,096 | 1,089 |
| Coarse Grains | 5,821 | 5,625 | 6,324 | 6,673 | 6,881 | 7,362 | 7,575 | 7,936 | 8,233 | 8,584 | 8,926 |
| Corn | 5,039 | 4,833 | 5,454 | 5,759 | 5,951 | 6,403 | 6,599 | 6,930 | 7,211 | 7,541 | 7,859 |
| Other Feed Grains | 782 | 792 | 870 | 915 | 930 | 960 | 976 | 1,005 | 1,022 | 1,044 | 1,067 |
| Feeds and Fodders | 3,527 | 3,600 | 3,663 | 3,703 | 3,759 | 3,820 | 3,887 | 3,996 | 4,082 | 4,221 | 4,312 |
| Oilseeds and Products | 8,606 | 8,787 | 9,187 | 10,038 | 10,523 | 10,511 | 10,843 | 11,023 | 11,394 | 11,649 | 12,036 |
| Soybeans | 4,748 | 5,032 | 5,204 | 5,738 | 6,041 | 5,967 | 6,177 | 6,257 | 6,528 | 6,677 | 6,947 |
| Soybean Meal | 1,028 | 1,108 | 1,091 | 1,163 | 1,232 | 1,260 | 1,308 | 1,348 | 1,374 | 1,406 | 1,438 |
| Soybean Oil | 608 | 402 | 597 | 738 | 791 | 825 | 860 | 897 | 924 | 969 | 1,005 |
| Other Oilseeds and Products | 1,028 | 1,108 | 1,091 | 1,163 | 1,232 | 1,260 | 1,308 | 1,348 | 1,374 | 1,406 | 1,438 |
| Tobacco, unmanufactured | 1,376 | 1,409 | 1,419 | 1,425 | 1,434 | 1,445 | 1,452 | 1,460 | 1,468 | 1,477 | 1,487 |
| Cotton and Linters | 1,309 | 1,566 | 2,074 | 2,158 | 2,209 | 2,252 | 2,289 | 2,323 | 2,359 | 2,399 | 2,443 |
| Horticulture and Other Products | 12,988 | 13,539 | 14,500 | 15,090 | 15,473 | 15,864 | 16,279 | 16,686 | 17,094 | 17,519 | 17,963 |
| Total | 49,102 | 48,948 | 52,536 | 55,747 | 58,003 | 59,754 | 61,204 | 62,897 | 64,746 | 66,589 | 68,627 |

^{*} Bulk Commodities include wheat, rice, coarse grains, soybeans, cotton, and tobacco.

[†] High-value is total exports minus bulk commodities.

U.S. Food Prices and Expenditures

- The CPI for food is expected to increase 1.7 percent in 2000. With the exception of dairy products, all food prices are expected to rise this year. The rise in the CPI for food is still less than the general rate of price inflation of 2.5 percent for the year.
- The baseline shows the CPI for food increasing at an average rate of 1.2 percent annually. Consumers are expected to continue to get a bargain when they head to the grocery store. If weather were to result in short crops, however, consumers can expect food prices to rise at a faster rate than projected in the baseline.
- Meat prices are projected to rise for the next few years, as supplies of beef and pork fall from the levels seen the previous two years. Over the baseline period, the price index for meat rises annually with the growth rate dependent upon the cattle and hog cycles being experienced.
- Lower prices for milk and dairy products push the dairy CPI lower by 3.4 percent for 2000. As the growth in milk production slows, dairy product prices rebound, with the CPI for dairy products again reaching its 1999 level by 2003.
- Low grain prices curtailed the growth in the CPI for cereal and bakery products to 1.4 percent for 2000. Over the baseline, with higher grain prices, the CPI for cereal and bakery products grows at an annual rate of 2.4 percent.
- The growth in real food expenditures should remain modest over the baseline. The total growth in real food expenditures is projected to be 1.5 percent over the 1999 to 2009 period, compared to a 2.1 percent over the 1989 to 1999 period. Consumers can expect food expenditures to remain quite reasonable in the absence of any adverse weather events.
- Of the \$107 billion increase in food-at-home expenditures, \$60 billion can be associated equally between meats, cereal and bakery products, and fruits and vegetables, while the remaining increase in food-at-home expenditures comes from other food.

Consumer Price Indexes for Food

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|
| | | | | | (198 | 32-84=100 |)) | | | | |
| FOOD | 164.3 | 167.1 | 171.2 | 174.8 | 177.8 | 180.9 | 183.9 | 187.9 | 191.9 | 195.4 | 199.3 |
| Food at Home | 164.1 | 166.7 | 170.6 | 174.1 | 176.9 | 179.8 | 182.7 | 186.5 | 190.3 | 193.7 | 197.4 |
| Cereal and Bakery | 184.9 | 187.5 | 193.4 | 197.0 | 199.6 | 203.7 | 208.0 | 212.7 | 217.8 | 223.1 | 228.8 |
| Meat | 147.7 | 152.1 | 157.0 | 161.0 | 162.9 | 164.1 | 164.8 | 168.0 | 171.3 | 173.0 | 175.1 |
| Dairy | 159.6 | 154.2 | 155.9 | 158.3 | 160.8 | 162.8 | 165.2 | 167.6 | 169.8 | 172.0 | 174.6 |
| Fruit and Vegetables | 203.8 | 208.2 | 212.8 | 217.1 | 221.9 | 226.8 | 231.8 | 236.9 | 242.1 | 247.4 | 252.9 |
| Other Food At Home | 153.6 | 156.6 | 158.5 | 161.1 | 164.0 | 167.0 | 170.0 | 173.8 | 177.0 | 180.3 | 183.6 |
| Sugar and Sweets | 152.3 | 158.1 | 157.7 | 160.1 | 162.5 | 164.9 | 167.4 | 173.8 | 176.6 | 179.6 | 182.5 |
| Fats and Oils | 148.3 | 148.0 | 148.0 | 149.9 | 153.5 | 157.1 | 159.9 | 163.0 | 166.0 | 169.4 | 172.9 |
| Other Prepared Items | 168.9 | 173.0 | 177.3 | 181.4 | 185.9 | 190.5 | 195.2 | 200.0 | 204.9 | 209.9 | 215.0 |
| Non-alc. Beverages | 134.3 | 135.7 | 135.8 | 136.6 | 137.4 | 138.1 | 139.0 | 140.7 | 141.6 | 142.5 | 143.4 |
| Food Away From Home | 165.1 | 168.4 | 172.8 | 176.7 | 180.0 | 183.4 | 186.7 | 190.9 | 195.1 | 199.0 | 203.1 |

Total Consumer Expenditures for Food

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|
| | | | | | (Bil | lion Dollar | s) | | | | |
| FOOD | 536.8 | 548.5 | 563.9 | 579.6 | 593.9 | 608.5 | 623.1 | 641.0 | 658.9 | 676.0 | 694.1 |
| Food at Home | 312.7 | 319.9 | 330.1 | 340.8 | 350.6 | 360.5 | 370.4 | 383.0 | 395.4 | 407.1 | 419.6 |
| Cereal and Bakery | 47.2 | 48.3 | 50.2 | 52.0 | 53.3 | 55.1 | 56.9 | 58.9 | 61.1 | 63.4 | 65.8 |
| Meat | 81.3 | 83.1 | 85.9 | 88.2 | 90.0 | 91.5 | 92.9 | 95.6 | 98.4 | 100.5 | 102.7 |
| Dairy | 35.0 | 34.4 | 35.5 | 36.6 | 37.8 | 39.0 | 40.2 | 41.3 | 42.5 | 43.6 | 44.9 |
| Fruit and Vegetables | 53.0 | 54.2 | 56.0 | 57.9 | 59.8 | 61.9 | 64.0 | 66.1 | 68.4 | 70.7 | 73.2 |
| Other Food At Home | 96.1 | 99.8 | 102.4 | 106.0 | 109.5 | 112.9 | 116.4 | 120.9 | 124.8 | 128.7 | 132.8 |
| Sugar and Sweets | 12.3 | 13.1 | 13.3 | 13.9 | 14.3 | 14.8 | 15.2 | 16.1 | 16.6 | 17.1 | 17.7 |
| Fats and Oils | 8.5 | 8.5 | 8.6 | 8.8 | 9.1 | 9.4 | 9.6 | 9.9 | 10.1 | 10.4 | 10.7 |
| Other Prepared Items | 43.0 | 43.9 | 45.2 | 46.4 | 47.5 | 48.6 | 49.7 | 51.0 | 52.4 | 53.7 | 55.1 |
| Non-alc. Beverages | 26.4 | 28.0 | 28.8 | 30.2 | 31.5 | 32.9 | 34.3 | 36.0 | 37.4 | 38.9 | 40.4 |
| Food Away From Home | 224.1 | 228.6 | 233.8 | 238.8 | 243.3 | 248.0 | 252.6 | 258.1 | 263.6 | 268.9 | 274.5 |

U.S. Government Costs

- The emergency spending packages of 1998 and 1999, together with increased LDPs, have pushed government outlays significantly higher. For FY 1999, net expenditures reached \$19.2 billion. Outlays are projected to increase to \$23.8 billion in FY 2000, falling just short of the record-level of \$25.8 billion set in FY 1986. Longer term, outlays decline to approximately \$7 billion, with the bulk of those costs associated with FAIR Act contract payments and CRP rental payments.
- Feed grain program costs are projected to rise to \$7.9 billion in FY 2000, with the bulk of the increase due to the additional payments of the 1999 spending package. With no assumption of additional aid packages and lower LDPs, program outlays fall to \$2.6 billion in FY 2001. Costs average \$2.1 billion in the latter half of the baseline.
- Outlays for wheat are projected to be \$3.4 billion in FY 2000, about the same level as 1999. Direct payments under the FAIR Act and the emergency spending package account for \$2.8 billion of the total. Longer term, outlays average \$1.1 billion.
- Increased LDPs and marketing loan gains due to sagging soybean prices will to lead to additional outlays for FY 2000. Costs for FY 2000 are projected to be \$2.8 billion and are expected to rise to \$3.9 billion in 2001. As prices recover, soybean program costs are nonexistent.
- Cotton program costs are projected to grow to \$2.8 billion in FY 2000 as low world prices contribute to higher LDPs. In addition, the re-instatement of the Step 2 program is expected to contribute \$600 million to the costs of the program in 2000. Continued low prices will keep cotton outlays at a high level through FY 2002. Longer term, outlays for cotton range between \$700 million and \$1 billion.
- As rice prices have weakened over the past year, the costs of the rice program have increased. For FY 2000, costs are projected at \$1.2 billion, which if realized would be a new record high. As prices recover and contract payments decline, rice outlays decline to \$400 million by the end of the projection period.
- Direct payments under the emergency packages, coupled with increased product purchases, have pushed dairy outlays to their highest levels since FY 1991. For FY 2000, outlays are projected at just under \$400 million. Longer term, dairy costs average \$130 million, with most of those costs associated with the Export Incentive Program.
- Outlays associated with the CRP are projected to average \$1.5 billion in FY 1999 and 2000. As acreage enrolled in the CRP is assumed to expand to 36 million acres, outlays grow to \$1.74 billion by FY 2007.

CCC Net Expenditures, by Program

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-------------------------------|--------|--------|--------|--------|-------------|------------|------------|-------|-------|-------|-------|
| | | | | (M | illion U.S. | Dollars, F | iscal Year | ·) | | | |
| Feed Grains | 6,169 | 7,929 | 2,626 | 2,161 | 2,097 | 2,156 | 2,194 | 2,175 | 2,171 | 2,159 | 2,160 |
| Corn | 5,402 | 6,962 | 2,265 | 1,854 | 1,806 | 1,862 | 1,897 | 1,878 | 1,875 | 1,863 | 1,865 |
| Sorghum | 501 | 663 | 226 | 198 | 198 | 200 | 201 | 201 | 200 | 200 | 200 |
| Barley | 224 | 264 | 112 | 94 | 85 | 87 | 87 | 87 | 86 | 86 | 86 |
| Oats | 41 | 40 | 23 | 16 | 8 | 7 | 9 | 10 | 10 | 10 | 9 |
| Wheat | 3,435 | 3,438 | 1,269 | 1,054 | 1,068 | 1,120 | 1,101 | 1,085 | 1,084 | 1,085 | 1,085 |
| Soybeans | 1,289 | 2,842 | 3,951 | 3,235 | 1,000 | 795 | 363 | 276 | 8 | -15 | -20 |
| Cotton | 1,882 | 2,845 | 2,132 | 1,859 | 1,446 | 1,264 | 1,090 | 962 | 939 | 872 | 710 |
| Rice | 911 | 1,193 | 696 | 633 | 582 | 545 | 515 | 480 | 450 | 496 | 409 |
| Sugar | -51 | 0 | 0 | -43 | -43 | -44 | -44 | -44 | -44 | -45 | -45 |
| Dairy | 480 | 395 | 126 | 115 | 120 | 123 | 124 | 129 | 132 | 132 | 130 |
| Export Programs | 106 | 82 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| Net Interest | 210 | 314 | 282 | 281 | 259 | 220 | 192 | 184 | 170 | 169 | 148 |
| Disaster Payments | 2,294 | 1,487 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Conservation Reserve | 1,462 | 1,497 | 1,553 | 1,583 | 1,621 | 1,669 | 1,693 | 1,717 | 1,741 | 1,741 | 1,741 |
| Other Conservation Prog. | 293 | 350 | 294 | 220 | 225 | 241 | 254 | 256 | 258 | 260 | 261 |
| Other Net Costs | 753 | 1,411 | 102 | 42 | 136 | 156 | 190 | 146 | 162 | 146 | 144 |
| Net CCC Outlays | 19,223 | 23,783 | 13,202 | 11,311 | 8,681 | 8,418 | 7,845 | 7,537 | 7,241 | 7,171 | 6,894 |
| Total Government Costs | 19,223 | 23,783 | 13,202 | 11,311 | 8,681 | 8,418 | 7,845 | 7,537 | 7,241 | 7,171 | 6,894 |

U.S. Cash Receipts from Farm Marketings

- Total receipts from farm marketings for 2000 are projected to remain relatively stable at \$193 billion. Weak commodity prices will keep receipts well below the record levels observed in the mid 1990s. As prices recover and production expands, total receipts are projected to grow to \$233 billion by the end of the baseline.
- Weaker prices are projected to lower feed grain cash receipts to \$20.5 billion in 2000, the lowest level since 1994. This also represents a \$7-billion decline from the levels observed in 1996 and 1997. As production and prices increase, receipts steadily increase after 2000, growing to \$26.9 billion by 2009.
- For 2000, total food grain receipts will remain near \$7.5 billion as wheat and rice prices continue to remain weak. Recovery begins in 2001 as prices began to strengthen. By 2009, food grain receipts are projected to grow to \$10.6 billion. However, this is still below the record level of \$10.7 billion in 1995.
- Oilseed cash receipts are projected to fall below \$14 billion for 2000, representing a decline of almost \$6 billion from the 1997 level. Recovery in soybeans prices, coupled with increased production, push receipts up to \$19.8 billion by 2009.
- Larger production and a modest recovery in prices will push cotton receipts up to \$5.9 billion in 2000. Receipts remain stable through 2005 as higher prices are offset by smaller production levels.
- With stronger prices expected, cash receipts for cattle and calves are projected to continue to expand through 2003, peaking at \$39.3 billion. As the cattle cycle turns, receipts generally decline thereafter.
- Cash receipts for hogs are projected to reach \$10 billion in 2000, based on stronger prices. Although higher than the two previous years, it still falls \$3 billion below the 1997 peak. Receipts average \$11 billion after 2000, with movements following the production cycle.
- Lower milk prices more than offset higher production, causing 2000 dairy receipts to fall by \$2 billion from the 1999 level of \$23.3 billion. As prices continue to struggle, little recovery is seen until 2003. Longer term, dairy receipts increase to \$24.5 billion.
- The combination of lower prices and higher production will keep total poultry receipts stable at \$23 billion for 2000. As broiler prices recover, receipts increase beginning in 2001. For the 2001 to 2009 period, poultry receipts grow at an annual average rate of 2.4 percent.

U.S. Cash Receipts from Farming

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|------------------------|--------|--------|--------|--------|---------|------------|--------|--------|--------|--------|--------|
| Farm Marketings | | | | | (Billio | n U.S. Dol | lars) | | | | |
| and CCC Loans | 192.72 | 193.20 | 198.86 | 204.23 | 209.06 | 212.06 | 214.55 | 218.71 | 223.53 | 228.24 | 233.37 |
| Crops | 95.89 | 96.65 | 100.12 | 103.64 | 107.07 | 110.19 | 113.43 | 116.90 | 120.57 | 124.23 | 128.04 |
| Feed Grains | 20.80 | 20.45 | 21.69 | 22.55 | 23.16 | 23.80 | 24.35 | 25.01 | 25.66 | 26.28 | 26.91 |
| Corn | 15.53 | 15.18 | 16.29 | 17.08 | 17.62 | 18.19 | 18.66 | 19.24 | 19.82 | 20.37 | 20.93 |
| Sorghum | 0.87 | 0.94 | 0.99 | 1.01 | 1.03 | 1.06 | 1.08 | 1.09 | 1.11 | 1.13 | 1.15 |
| Barley | 0.52 | 0.53 | 0.57 | 0.58 | 0.59 | 0.60 | 0.61 | 0.62 | 0.63 | 0.64 | 0.66 |
| Oats | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| Hay | 3.80 | 3.72 | 3.75 | 3.79 | 3.83 | 3.87 | 3.91 | 3.96 | 4.02 | 4.06 | 4.09 |
| Food Grains | 7.52 | 7.56 | 8.24 | 8.74 | 9.16 | 9.32 | 9.55 | 9.80 | 10.05 | 10.30 | 10.56 |
| Wheat | 5.97 | 6.06 | 6.71 | 7.18 | 7.57 | 7.72 | 7.92 | 8.15 | 8.38 | 8.61 | 8.85 |
| Rice | 1.53 | 1.48 | 1.50 | 1.55 | 1.58 | 1.59 | 1.61 | 1.63 | 1.65 | 1.67 | 1.69 |
| Rye | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Oilseeds | 14.57 | 13.91 | 14.11 | 15.00 | 15.88 | 16.44 | 17.03 | 17.60 | 18.30 | 19.01 | 19.81 |
| Cotton | 5.15 | 5.87 | 6.00 | 5.88 | 5.86 | 5.96 | 6.08 | 6.25 | 6.43 | 6.57 | 6.72 |
| Sugar | 2.24 | 2.28 | 2.30 | 2.32 | 2.34 | 2.36 | 2.37 | 2.39 | 2.41 | 2.43 | 2.45 |
| Other Crops * | 45.62 | 46.58 | 47.77 | 49.15 | 50.67 | 52.31 | 54.05 | 55.86 | 57.73 | 59.64 | 61.59 |
| Livestock and Products | 96.83 | 96.56 | 98.75 | 100.59 | 101.98 | 101.87 | 101.12 | 101.81 | 102.96 | 104.01 | 105.33 |
| Red Meats | 47.06 | 48.30 | 49.80 | 50.44 | 50.74 | 49.84 | 48.17 | 47.80 | 47.84 | 47.82 | 47.99 |
| Cattle, Calves | 37.32 | 37.86 | 38.62 | 38.99 | 39.28 | 38.67 | 37.27 | 36.23 | 35.57 | 35.86 | 36.54 |
| Hogs | 9.27 | 10.02 | 10.73 | 10.99 | 11.01 | 10.72 | 10.45 | 11.12 | 11.82 | 11.51 | 11.00 |
| Sheep, Lambs | 0.47 | 0.43 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 |
| Dairy Products | 23.32 | 21.36 | 21.13 | 21.62 | 22.14 | 22.51 | 22.93 | 23.32 | 23.71 | 24.07 | 24.45 |
| Poultry, Eggs | 22.57 | 22.97 | 23.82 | 24.48 | 24.97 | 25.34 | 25.80 | 26.42 | 27.11 | 27.78 | 28.50 |
| Broilers | 14.96 | 15.38 | 15.95 | 16.37 | 16.68 | 16.94 | 17.26 | 17.70 | 18.19 | 18.67 | 19.20 |
| Turkeys | 2.97 | 3.06 | 3.08 | 3.14 | 3.18 | 3.20 | 3.23 | 3.27 | 3.33 | 3.37 | 3.42 |
| Chicken Eggs | 3.99 | 3.87 | 4.10 | 4.26 | 4.39 | 4.46 | 4.55 | 4.68 | 4.79 | 4.91 | 5.04 |
| Other Poultry | 0.65 | 0.66 | 0.69 | 0.71 | 0.73 | 0.74 | 0.75 | 0.78 | 0.80 | 0.82 | 0.84 |
| Other Livestock † | 3.88 | 3.93 | 3.99 | 4.06 | 4.12 | 4.18 | 4.22 | 4.26 | 4.30 | 4.34 | 4.39 |
| Government Payments | 21.68 | 15.12 | 10.22 | 7.71 | 7.26 | 6.83 | 6.68 | 6.44 | 6.40 | 6.31 | 6.20 |
| Total Cash Receipts | 214.39 | 208.32 | 209.08 | 211.94 | 216.32 | 218.89 | 221.23 | 225.14 | 229.93 | 234.55 | 239.57 |

 $^{^{\}star}$ Includes to bacco, vegetables and melons, fruits and tree nuts, and other crops. † Includes horses, mules, and a quaculture.

U.S. Farm Production Expenses

- Increased costs for purchased livestock and feed will push expenses for farm-origin inputs higher in 2000. Driven by higher feed costs, expenses continue to increase over the baseline, growing from \$46.7 billion in 2001 to \$54.4 billion in 2009.
- The increase in oil prices will push expenses for manufactured inputs higher in 2000. Higher fuel and fertilizer expenses contribute to the \$1 billion increase in expenses for manufactured inputs. After 2000, input price inflation causes manufactured input expenses to grow at an annual rate of 1.8 percent.
- Recent increases in interest rates will push total interest expenses higher in 2000, reaching \$14.2 billion. Modest growth is projected over the baseline period, with total interest expenses reaching \$14.8 billion in 2009. The increased expenses are driven by the increased production of crop and livestock commodities, rather than by increases in interest rates. Interest rates are projected to be relatively stable over the projection period.
- Growth in labor and miscellaneous expenses contribute the majority of the \$1.8 billion increase in other operating expenses for 2000. Over the baseline period, other operating expenses grow from \$65.1 billion in 2000 to \$79.9 billion by 2009. Miscellaneous expenses and labor costs are the primary growth drivers over the baseline period, with annual growth rates of 2.4 percent and 3.1 percent, respectively.
- Other overhead expenses are projected to fall to \$38.9 billion in 2000, a drop of \$300 million from the previous year. The decline is due to lower expenses for capital consumption and rent. Rent to non-operator landlords is projected to decline due to the drop in market receipts for the major crops. Longer term, overhead expenses are projected to reach \$43.3 billion, with rent expenses contributing most of the growth.
- Total production expenses are projected to grow to \$193.6 billion in 2000. This represents a \$4 billion increase from the 1999 level and \$3.5 billion more than the peak observed in 1997. Increased production levels and modest growth in input prices lead to continued growth in total production expenses. After 2000, production expenses grow at an annual rate of 1.8 percent.

U.S. Farm Production Expenses

| 0.0. 1 411111 1040 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|--|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| - | (Billion U.S. Dollars) | | | | | | | | | | |
| Farm-Origin Inputs | 44.62 | 45.59 | 46.74 | 47.94 | 49.30 | 50.24 | 50.69 | 51.23 | 52.08 | 53.18 | 54.36 |
| Feed | 23.59 | 24.08 | 24.84 | 25.78 | 26.77 | 27.74 | 28.58 | 29.44 | 30.25 | 31.00 | 31.70 |
| Purchased Livestock | 13.85 | 14.26 | 14.50 | 14.59 | 14.82 | 14.61 | 14.08 | 13.59 | 13.47 | 13.66 | 13.98 |
| Seed | 7.19 | 7.25 | 7.39 | 7.57 | 7.71 | 7.89 | 8.03 | 8.20 | 8.35 | 8.52 | 8.68 |
| Manufactured Inputs | 28.83 | 29.79 | 30.01 | 30.64 | 31.13 | 31.76 | 32.33 | 33.04 | 33.65 | 34.31 | 34.95 |
| Fertilizer, Lime | 10.45 | 10.85 | 10.96 | 11.25 | 11.40 | 11.62 | 11.79 | 12.03 | 12.23 | 12.47 | 12.69 |
| Petroleum Fuel, Oils | 6.05 | 6.43 | 6.42 | 6.59 | 6.71 | 6.88 | 7.02 | 7.21 | 7.37 | 7.53 | 7.69 |
| Electricity | 3.10 | 3.16 | 3.16 | 3.20 | 3.28 | 3.36 | 3.44 | 3.55 | 3.61 | 3.68 | 3.74 |
| Pesticides | 9.23 | 9.35 | 9.47 | 9.60 | 9.74 | 9.90 | 10.07 | 10.25 | 10.44 | 10.62 | 10.82 |
| Interest Charges | 13.82 | 14.18 | 14.14 | 14.21 | 14.30 | 14.41 | 14.56 | 14.54 | 14.61 | 14.68 | 14.80 |
| Short-Term Interest | 7.04 | 7.22 | 7.20 | 7.23 | 7.28 | 7.33 | 7.41 | 7.39 | 7.43 | 7.46 | 7.52 |
| Real Estate Interest | 6.78 | 6.96 | 6.94 | 6.98 | 7.02 | 7.08 | 7.16 | 7.14 | 7.18 | 7.21 | 7.27 |
| Other Operating Exp. Repair, Operation | 63.35 | 65.13 | 66.45 | 68.00 | 69.64 | 71.40 | 73.04 | 74.69 | 76.35 | 78.09 | 79.85 |
| of Capital Items | 10.38 | 10.51 | 10.67 | 10.85 | 11.03 | 11.23 | 11.43 | 11.61 | 11.78 | 11.96 | 12.14 |
| Contract, Hired Labor | 19.76 | 20.37 | 21.01 | 21.66 | 22.34 | 23.08 | 23.80 | 24.53 | 25.26 | 26.01 | 26.77 |
| Machine Hire | 10.70 | 20.01 | 21.01 | 21.00 | 22.01 | 20.00 | 20.00 | 2 1.00 | 20.20 | 20.01 | 20.77 |
| Custom Work | 5.37 | 5.47 | 5.50 | 5.56 | 5.60 | 5.66 | 5.71 | 5.78 | 5.84 | 5.91 | 5.98 |
| Marketing, Storage, | 0.01 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.7 1 | 0.70 | 0.01 | 0.01 | 0.00 |
| and Transportation | 7.01 | 7.33 | 7.45 | 7.59 | 7.73 | 7.86 | 7.94 | 8.04 | 8.15 | 8.27 | 8.40 |
| Miscellaneous | 20.82 | 21.43 | 21.83 | 22.33 | 22.93 | 23.57 | 24.15 | 24.73 | 25.32 | 25.94 | 26.56 |
| Other Overhead Exp. | 39.22 | 38.94 | 38.94 | 39.24 | 39.73 | 40.24 | 40.79 | 41.39 | 41.99 | 42.64 | 43.33 |
| Capital Consumption | 19.31 | 19.16 | 19.15 | 19.24 | 19.36 | 19.52 | 19.67 | 19.84 | 20.01 | 20.20 | 20.39 |
| Property Taxes | 7.16 | 7.30 | 7.40 | 7.50 | 7.61 | 7.74 | 7.87 | 8.02 | 8.17 | 8.34 | 8.53 |
| Rent to Nonoperators | 12.74 | 12.48 | 12.40 | 12.50 | 12.76 | 12.98 | 13.24 | 13.53 | 13.81 | 14.10 | 14.41 |
| Production Expenses | 189.83 | 193.63 | 196.28 | 200.02 | 204.10 | 208.04 | 211.42 | 214.88 | 218.69 | 222.90 | 227.28 |
| Noncash Expenses | 18.46 | 18.31 | 18.30 | 18.39 | 18.51 | 18.67 | 18.82 | 18.99 | 19.16 | 19.35 | 19.54 |
| Labor Perquisites | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Net Cap Consumption | 17.86 | 17.71 | 17.70 | 17.79 | 17.91 | 18.07 | 18.22 | 18.39 | 18.56 | 18.75 | 18.94 |
| Op Dwelling Expenses | 2.68 | 2.66 | 2.69 | 2.72 | 2.75 | 2.78 | 2.81 | 2.84 | 2.87 | 2.90 | 2.93 |
| Cash Expenses | 168.68 | 172.67 | 175.29 | 178.92 | 182.85 | 186.59 | 189.79 | 193.05 | 196.66 | 200.66 | 204.82 |

U.S. Net Farm Income

- Total farm receipts are projected to increase to \$207.7 billion in 2000, driven primarily by increased crop receipts. For 2001, a \$6 billion increase is projected, based on both higher crop and livestock receipts. With the majority of the growth occurring in crops, total farm receipts are projected to reach \$251 billion by 2009.
- After reaching a record level of \$21.7 billion in 1999, direct government payments are projected to fall to \$15.1 billion in 2000 with lower LDPs and the assumption of no additional assistance packages. As crop prices recover and LDPs decline, direct payments decline to \$6.2 billion by 2009, reflecting continued AMTA and CRP payments.
- Non-money income comprises the value of home consumption of farm products and the imputed rental value of farm dwellings. With the average value of land and buildings projected to show a modest increase, non-money income is projected to grow from \$11.8 billion in 2000 to \$14.4 billion in 2009.
- The value of inventory change is projected at \$200 million in 2000. The increase from the 1999 level is due to an increased value of crop stocks. With trend yields and stable crops prices, the value of inventory change remains at relatively low levels throughout the baseline.
- Net cash income is projected to decline to \$50.1 billion in 2000 due to lower government payments and higher production expenses. Cash income falls further in 2001 and 2002, as higher income is more than offset by higher expenses. Not until 2007 does net cash income recover to the 2000 level; however, it remains well below the 1999 level of \$59.8 billion.
- Accounting for the value of inventory change, non-money income, and total expenses, net farm income is
 projected to decline to \$41.2 billion in 2000, a \$7.5 billion decline from the 1999 level. As with net cash
 income, net farm income remains stable through 2007 before showing modest recovery at the end of the period.
- After accounting for inflation, real net farm income (in 1997 dollars) falls to \$39.6 billion in 2000, a decline of \$8 billion from the previous year. In general, real farm income declines over the projection period, reaching a low of \$35.2 billion in 2005.

U.S. Farm Income Statistics

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|--|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | (Billion U.S. Dollars) | | | | | | | | | | |
| 1. Farm Receipts | 206.79 | 207.69 | 213.70 | 219.45 | 224.63 | 228.01 | 230.85 | 235.38 | 240.57 | 245.65 | 251.15 |
| Crops | 95.89 | 96.65 | 100.12 | 103.64 | 107.07 | 110.19 | 113.43 | 116.90 | 120.57 | 124.23 | 128.04 |
| Livestock | 96.83 | 96.56 | 98.75 | 100.59 | 101.98 | 101.87 | 101.12 | 101.81 | 102.96 | 104.01 | 105.33 |
| Farm-Related * | 14.07 | 14.49 | 14.84 | 15.22 | 15.58 | 15.94 | 16.31 | 16.67 | 17.04 | 17.41 | 17.78 |
| 2. Government Payments | 21.68 | 15.12 | 10.22 | 7.71 | 7.26 | 6.83 | 6.68 | 6.44 | 6.40 | 6.31 | 6.20 |
| 3. Gross Cash Income (1 + 2) | 228.47 | 222.81 | 223.92 | 227.16 | 231.89 | 234.84 | 237.53 | 241.82 | 246.97 | 251.96 | 257.35 |
| 4. Nonmoney Income | 11.59 | 11.83 | 12.09 | 12.35 | 12.60 | 12.82 | 13.03 | 13.32 | 13.66 | 14.01 | 14.37 |
| 5. Value of Inventory Change | -1.56 | 0.17 | -0.07 | 0.32 | 0.34 | 0.51 | 0.38 | 0.29 | 0.03 | -0.06 | -0.07 |
| 6. Gross Farm Income (3 + 4 + 5) | 238.50 | 234.81 | 235.94 | 239.83 | 244.83 | 248.17 | 250.94 | 255.43 | 260.66 | 265.91 | 271.65 |
| 7. Cash Expenses † | 168.68 | 172.67 | 175.29 | 178.92 | 182.85 | 186.59 | 189.79 | 193.05 | 196.66 | 200.66 | 204.82 |
| 8. Total Expenses | 189.83 | 193.63 | 196.28 | 200.02 | 204.10 | 208.04 | 211.42 | 214.88 | 218.69 | 222.90 | 227.28 |
| 9. Net Cash Income (3 - 7) | 59.78 | 50.14 | 48.63 | 48.24 | 49.04 | 48.24 | 47.74 | 48.76 | 50.31 | 51.30 | 52.53 |
| 10. Realized Net Farm Inc (3 + 4 - 8) | 50.23 | 41.01 | 39.73 | 39.49 | 40.39 | 39.62 | 39.14 | 40.26 | 41.94 | 43.07 | 44.44 |
| 11. Net Farm Income (6 - 8) | 48.66 | 41.18 | 39.66 | 39.80 | 40.74 | 40.12 | 39.52 | 40.54 | 41.97 | 43.00 | 44.36 |
| Deflated (1997 \$) ‡ | 47.51 | 39.64 | 37.56 | 37.11 | 37.39 | 36.25 | 35.21 | 35.49 | 36.04 | 36.19 | 36.56 |

 $^{^{\}star}$ Income from machine hire, custom work, sales of forest products, and other miscellaneouis cash sources.

 $[\]dagger$ Excludes capital consumption, perquisites to hired labor, and farm household expenses.

[‡] Deflated by the GNP price deflator, 1997=1

Crop Insurance

- Net acres insured rose to 196 million acres in 1999, due in part to the provisions of the disaster assistance packages in the last two years. The increase in participation due to these packages will continue through 2001. After 2001, net acres insured fall back to near 1998 levels, but then steadily climb to more than 188 million acres by 2009.
- The disaster assistance packages require producers who did not have crop insurance and receive assistance to purchase crop insurance for two years. Most of the acreage increases in 1999 and 2000 are in buy-up coverage due to the temporary increases in premium subsidies. In 2001, the temporary premium subsidy increases are removed.
- Total premiums rose to roughly \$2.3 billion in 1999 and do similarly in 2000. This increase arises from growth in overall participation and, particularly, in buy-up participation. In 2001, total premium levels fall to \$1.8 billion due to decreases in buy-up participation and low crop prices. Total premiums then trend upward, reaching \$2.1 billion in 2009.
- The impact of the \$400 million for temporary premium subsidies from the disaster assistance packages is evident from the producer-paid premiums and premium subsidies for 1999 and 2000. Premium subsidies exceed \$1.3 billion in both years. Following 2000, the division of premium payments returns to the normal pattern. After 2001, producer-paid premiums exceed premium subsidies for the first time since 1994.
- Total indemnities (insurance payments) follow a pattern similar to 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 from crop insurance. They are the costs for crop insurance before taking any crop insurance revenues into account. Total obligations are equal to the sum of indemnities, delivery expenses, administrative and operating expenses, agent commissions, and other expenses. Over the projection period, total obligations exceed \$2 billion each year. By 2009, the federal government's total financial obligation from crop insurance reaches \$2.5 billion.
- Net outlays take underwriting costs and crop insurance revenues into account. They are equal to the sum of total obligations and underwriting costs minus producer-paid premiums. Net outlays exceeded \$1.6 billion in 1999. In 2000, net outlays increase to \$1.9 billion. Most of this increase can be attributed to the temporary premium subsidies. After 2000, net outlays for crop insurance decline through 2003, only to increase back up to nearly \$1.6 billion in 2009.
- Budget authority is the amount the law allows the federal government to spend for the program. For crop insurance, it represents net outlays on a crop year basis. Budget authority for 1999 and 2000 is nearly \$2 billion a year. In 2001, this falls to \$1.3 billion. By 2009, budget authority for crop insurance rises to \$1.6 billion.

FAPRI Crop Insurance Baseline

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|------------------------|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | (Million Acres) | | | | | | | | | | |
| Eligible Acres | 263.77 | 263.69 | 263.89 | 264.83 | 265.05 | 265.71 | 265.88 | 266.34 | 266.88 | 267.49 | 268.21 |
| Net Acres Insured | 196.22 | 197.24 | 187.18 | 182.81 | 183.39 | 184.25 | 184.85 | 185.64 | 186.49 | 187.35 | 188.32 |
| Crop Insurance | | | | | | | | | | | |
| Participation Rate | 74.39% | 74.80% | 70.93% | 69.03% | 69.19% | 69.34% | 69.52% | 69.70% | 69.88% | 70.04% | 70.22% |
| | (Billion Dollars) | | | | | | | | | | |
| Total Premiums | 2.31 | 2.27 | 1.76 | 1.72 | 1.78 | 1.82 | 1.88 | 1.94 | 1.99 | 2.05 | 2.12 |
| Producer-Paid Premiums | 0.92 | 0.91 | 0.87 | 0.86 | 0.90 | 0.92 | 0.95 | 0.98 | 1.01 | 1.04 | 1.07 |
| Premium Subsidies | 1.39 | 1.36 | 0.89 | 0.85 | 0.88 | 0.91 | 0.93 | 0.96 | 0.99 | 1.01 | 1.05 |
| Total Indemnities | 2.17 | 2.27 | 1.76 | 1.72 | 1.78 | 1.82 | 1.88 | 1.94 | 1.99 | 2.05 | 2.12 |
| Loss Ratio | 0.94 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | (Billion Dollars, Fiscal Year) | | | | | | | | | | |
| Total Obligations | 2.24 | 2.66 | 2.53 | 2.09 | 2.08 | 2.15 | 2.21 | 2.28 | 2.35 | 2.42 | 2.49 |
| Net Outlays | 1.68 | 1.92 | 1.79 | 1.33 | 1.32 | 1.37 | 1.40 | 1.45 | 1.50 | 1.54 | 1.58 |
| Budget Authority | 1.91 | 1.99 | 1.34 | 1.30 | 1.35 | 1.39 | 1.43 | 1.48 | 1.52 | 1.56 | 1.62 |