November 1998/AGO-256

AGRICULTURAL OUTLOOK



2 Briefs

Livestock, Dairy, & Poultry: Hog Producers Signal Plans To Expand Specialty Crops: U.S. Orange Crop To Decline Sharply in 1998/99

5 Commodity Spotlight

U.S. Rice Prices Remain Firm Despite Bumper Supplies

Nathan Childs



9 World Agriculture & Trade

U.S. Cotton Production & Textile Imports Weave New Relationship Stephen MacDonald

12 Resources & Environment

Environmental Policy & the WTO: Unresolved Questions Utpal Vasavada & Steve Warmerdam



15 Special Article

China's Livestock Sector Growing Rapidly

Frederick W. Crook & W. Hunter Colby

Economics Editor Dennis A. Shields (202) 694-5331

dshields@econ.ag.gov Associate Editor Anne B. W. Effland

(202) 694-5319 Managing Editor Mary Reardon (202) 694-5136

Assistant Editor Carrie Ingoglia (202) 694-5383

Art Director Victor Phillips, Jr.

Statistical Coordinator David Johnson (202) 694-5324

Design, Layout, Charts Cynthia Ray

Tabular Composition Cliola Peterson

Statistical Indicators

- 19 Summary
- 20 U.S. & Foreign Economic Data
- 22 Farm Prices
- 24 Producer & Consumer Prices
- 26 Farm-Retail Price Spreads
- 28 Livestock & Products
- 32 Crops & Products

- 36 World Agriculture
- 37 U.S. Agricultural Trade
- 41 Farm Income
- **46** Food Expenditures
- **46** Transportation
- 47 Indicators of Farm Productivity
- 48 Food Supply & Use

Agricultural Outlook Forum Announcement

Published by the Economic Research Service, U.S. Department of Agriculture. Materials may be reprinted without permission. Current and back issues are available on the ERS website on the Internet at www.econ.ag.gov/epubs/pdf/agout/ao.htm

Contents have been approved by the World Agricultural Outlook Board and the summary released October 20, 1998. Price and quantity forecasts are based on the October 9, 1998 World Agricultural Supply and Demand Estimates.

Subscriptions: \$65 per year (\$130 to foreign address, including Canada). Order from ERS-NASS, 5285 Port Royal Rd., Springfield, VA 22161. Or call 1-800-999-6779 or 1-703-605-6220). Checks payable to ERS-NASS. For free email subscription (text only): Send message "subscribe agricultural-outlook" (no quotes or subject title) to usda-reports@usda.mannlib.cornell.edu

The next issue (AGO-257) is scheduled for mailing on December 4,1998. If not delivered by December 24, call (202) 694-5383 (please have mailing label handy). The full text will also be distributed electronically; call (202) 694-5050 for further information.

Cover photo: Grant Heilman Photography

Rice Outlook...Livestock Sector in China...Cotton Textiles... WTO Environmental Issues

China's Livestock Sector Growing Rapidly

China is among the world's largest producers and consumers of animal proteins. Although current per capita consumption of animal proteins is lower in China than in wealthier nations, it is increasing rapidly as China's economy and personal incomes grow. Increasing overall population and rural-to-urban migration is expected to foster continued rapid growth in demand for animal products. Despite measures to increase feed efficiency, China has the potential to become a growing market for feedstuffs and/or animal protein imports, as demand for meats, fish, eggs, and milk is expected to outstrip domestic feedgrain supplies. And because of the sheer size of China's livestock sector, even relatively small changes in either livestock inventory growth or meat demand trends can have notable impacts on global trade projections for feedstuffs or animal proteins.

Environmental Policy & the WTO

The World Trade Organization (WTO) recognizes that environmental protection is a legitimate policy goal, despite the fact that environmental policies can effectively alter production and price levels and thus affect trade patterns. When environmental policies affect trade and production only minimally, the "green box" provisions of the Uruguay Round Agreement on Agriculture permit such policies to be exempt from a country's commitments to reduce support to agriculture. Discussions between now and the conclusion of the WTO mini-round on agriculture scheduled to begin in late 1999 may address a number of unresolved questions, such as how to assess the tradeoff between environmental protection and trade distortion and how to interpret "minimal trade-distorting effects."

U.S. Rice Prices Firm Despite Bumper Supplies

Relatively high prices at planting pulled up U.S. rice area more than 5 percent in 1998 from a year earlier to nearly 3.22 million acres, the second consecutive annual increase. The larger planted area will more



than offset a drop in yield to produce the third-largest rice crop on record. U.S. farm prices are projected to remain firm during the 1998/99 marketing year, given expectations of record domestic use, continued strong exports, and smaller ending stocks.

Global rice production is projected to drop more than 2 percent from the 1997/98 record of 385.4 million tons, a result of weaker crops in several major Asian rice producing countries, particularly China and India. The low level of global stocks relative to use will likely have minimal impacts on world trade and international prices, as supplies in these two countries remain adequate for domestic needs and as several exporting countries—particularly Thailand, Vietnam, and Pakistan—are projected to produce large crops in 1998/99.

Textile Imports & Cotton Production Weave New Relationship

U.S. imports of cotton textiles and apparel have been rising during 1998 at twice the average rate of the last decade. In part because of this import surge, U.S. textile mills are expected to use less cotton fiber in 1998/99. The U.S. milling industry purchases domestically produced cotton fiber almost exclusively, and farmers are seeing their best customer reduce its purchases.

At the same time, Asian textile exporters that traditionally ship to the U.S. are expected to enter the next century with weaker currencies and with notably lower wages and incomes than originally expected, making their exports more price-competitive. However, the increasing technical complexity and vertical integration of the U.S. textile industry, combined with several decades of global trade liberalization, will help U.S. cotton farmers continue to find both domestic and foreign customers for their fiber.

Hog Producers Signal Plans To Expand

Hog producers plan to continue increasing production over the next 6 months, according to the September Hogs and Pigs report, despite sharply lower hog prices. Large supplies of pork and competing meats have pushed hog prices nearly 40 percent below a year ago. This might have been expected to lead to a decline in farrowings, dampening prospective pork production gains next year. But many producers may be receiving higher prices through carcass quality pricing and forward contracts, and corn and soybean meal prices have declined this year. Consequently, returns to production may have dropped less sharply than the decline in average hog prices would suggest.

Sharp Decline For U.S. Orange Crop

After 2 years of record-setting citrus crops, adverse weather is expected to lower U.S. production 17 percent from last season. Wet and cool conditions have reduced production prospects in California, and wet weather in Florida this past winter followed by drought in the spring stressed orange trees. Florida's citrus crop is expected to drop about 18 percent from last year, with orange production accounting for most of the decline. The orange crop, primarily used for juice, is forecast at 8.6 million tons, down 22 percent from last year. Smaller crops in Florida and in Brazil, the world's other major orange juice producer, could boost grower prices this season, but large beginning stocks will partially offset declines in orange iuice production.

Briefs

Livestock, Dairy, & Poultry

Hog Producers Signal Plans To Expand

Hog producers plan to continue increasing production over the next 6 months, according to the September Hogs and Pigs report. As of September 1, hog producers indicated they intend to have 2 percent more sows farrowing in September-November than a year earlier, and 3 percent more in December-February than a year earlier. If these September plans are realized, an increase in pork production is assured in 1999. The September-November farrowing intentions are slightly reduced from the 3-percent increase producers indicated last June.

States where large producers dominate, such as North Carolina and Oklahoma, account for most of the increase in December-February farrowing intentions. Several traditional hog producing States also reported increases, including Illinois, Iowa, Michigan, and Ohio.

Pork production is expected to rise about 9 percent this year over 1997. Given the lackluster returns that are expected to continue next year, growth in pork production is expected to slow to about 4 percent in 1999. Although corn and soy-

bean meal prices have plummeted, bringing down costs of feed—the major component of hog production costs—hog prices are nearly 40 percent below a year ago due to large supplies of pork and competing meats.

After about a year of unfavorable returns, producers normally begin to liquidate their breeding herds, leading to reduced sow farrowings and pig crops. The smaller pig crops result in reduced pork production about 6 months after farrowing. The present period of unfavorable returns began in late 1997, which might have been expected to lead to a *decline* in farrowings, dampening prospective pork production gains next year.

Several factors may explain this contrast with the increase in farrowing intentions in the *Hogs and Pigs* report. First, current estimations of producers' costs and returns are based on live-weight price at the time of sale. But since many producers sell on a grade and yield basis (i.e., price is determined by the quality of carcass), they may be receiving an *effective* price higher than the live-weight price.

Second, producers who forward contract hogs receive a price based on a prenegotiated formula usually tied to the futures markets. This year, such pricing raised the effective price received by these producers because producers locked in higher prices before they declined. Finally, current low corn and soybean meal prices pushed break-even prices (based on cash cost) below the hog prices expected by next year. Consequently, returns to hog production may not have dropped as sharply as the decline in average hog prices suggests.

In addition, business planning periods are becoming longer as production units expand. Thus, production plans are based on the outlook for the next several years rather than just the current year.

Increasing supplies of pork and large supplies of poultry will keep hog prices hovering near \$30 per cwt next year. But this fall, prices will likely be in the mid- to high-\$20's as slaughter hits its seasonal peak. In some weeks, federally inspected slaughter has exceeded 2 million head, near the levels reached in 1994.

Hog prices are expected to average \$33-\$34 per cwt in 1998, compared with \$51 last year. The last time hog prices dropped below this level was in 1972

| U.S. Livestock and Poultry | Products—Market Outlook |
|----------------------------|-------------------------|
|----------------------------|-------------------------|

| | | Beginning |) | | Total | | Ending | Cor | nsumption | Primary |
|----------|------|-----------|------------|---------|----------------|---------|--------|---------|------------|--------------|
| | | stocks | Production | Imports | supply | Exports | stocks | Total | Per capita | market price |
| | | | | | — Million Ibs. | | | | Lbs. | \$/cwt |
| Beef | 1998 | 465 | 25,719 | 2,536 | 28,720 | 2,110 | 400 | 26,210 | 67.9 | 61.47 |
| | 1999 | 400 | 24,031 | 2,760 | 27,191 | 2,155 | 350 | 24,706 | 63.4 | 69-75 |
| Pork | 1998 | 408 | 18,772 | 660 | 19,840 | 1,245 | 475 | 18,120 | 52.0 | 33.87 |
| | 1999 | 475 | 19,455 | 700 | 20,630 | 1,260 | 490 | 18,880 | 53.7 | 33-35 |
| | | | | | | | | | | c/lb. |
| Broilers | 1998 | 607 | 27,522 | 5 | 28,133 | 4,683 | 600 | 22,850 | 73.5 | 62.5 |
| | 1999 | 600 | 28,943 | 4 | 29,547 | 4,525 | 650 | 24,372 | 77.7 | 56-61 |
| Turkeys | 1998 | 415 | 5,222 | 1 | 5,638 | 421 | 350 | 4,866 | 18.0 | 61.7 |
| | 1999 | 350 | 5,235 | 1 | 5,586 | 430 | 300 | 4,855 | 17.8 | 60-64 |
| | | | | | Million doz | | | | No | c/doz. |
| Eggs* | 1998 | 7.4 | 6,647.3 | 5.9 | 6,660.6 | 226.2 | 10.0 | 5,503.3 | 244.4 | 75.9 |
| | 1999 | 10.0 | 6,790.0 | 4.0 | 6,804.0 | 243.0 | 10.0 | 5,581.0 | 245.7 | 70-76 |

Based on October 9, 1998 World Agricultural Supply and Demand Estimates.

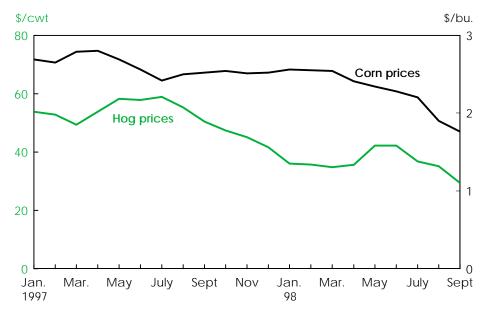
*Total consumption does not include eggs used for hatching.

See appendix tables 10 and 11 for complete definition of terms.

Economic Research Service, USDA

Briefs

Hog Prices Have Dropped, But So Have Corn Prices



Average prices received by producers. September preliminary. Economic Research Service, USDA

when they averaged \$27 per cwt. Prices in 1999 are expected to average about the same as in 1998.

The Bureau of Labor Statistics retail pork price index is expected to decline 5-6 percent in the second half of 1998, after showing a 4-percent decline from a year earlier in the first half of the year. This gradual decline in retail prices is not unusual because declines in farm value take over a year to be passed on to consumers, according to research by USDA's Economic Research Service.

For all of 1998, retail prices are expected to decline about 5 percent. However, if prices were weighted by volume sold (in contrast to a simple average), the average retail price would be lower because a larger proportion of sales occurs when particular cuts are featured.

The abundant supplies of higher value pork cuts will provide consumers an attractive alternative, especially if beef prices rise substantially. Starting late this year, beef production is expected to decline, and year-over-year decreases should continue through 1999. Per capita pork consumption is expected to rise about 7 percent (3 pounds) this year. A 4-percent gain (2 pounds) is expected in 1999.

Lower prices have also boosted pork exports—volume is up over a third during January-July compared with a year ago. For the year, U.S. pork exports are expected to post a double-digit increase, but most of the increase is due to attractive prices of lower value cuts. These products compete with an abundant supply of dark poultry meat products in the international markets.

Reduced prices for lower value cuts, such as picnic hams and trimmings, have provided incentives for low-income countries like Russia and Mexico to more than double their year-over-year purchases. Russia and Mexico account for about 10 and 20 percent of U.S. pork exports. Given the precarious position of developing countries in world capital markets, prospects for maintaining large export volumes even at very low prices—are questionable. In the second half of 1998, monthly exports to Russia are expected to fall, reflecting that country's financial crisis. U.S. exports to Mexico could also be slowed if tariff-rate quotas are reached.

Strong sales of Canadian hogs to the U.S. have continued. Imports of Canadian hogs are expected to exceed 4 million head this year, up from 3.2 million in 1997. The favorable U.S.-Canadian exchange rate

and a 4-percent rise in the September 1 Canadian hog and pig inventory suggest that Canadian hogs are going to continue heading south of the border.

Leland Southard (202) 694-5187 southard@econ.ag.gov

For further information, contact:

Leland Southard, coordinator; Ron Gustafson, cattle; Leland Southard, hogs; Mildred Haley, world pork; Jim Miller, domestic dairy; Richard Stillman, world dairy; Milton Madison, domestic poultry and eggs; David Harvey, poultry and egg trade, aquaculture. All are at (202) 694-5180.

November Releases—USDA's Agricultural Statistics Board

The following reports are issued electronically at 3 p.m. (ET) unless otherwise indicated.

November

- 2 Crop Progress (after 4 p.m.)
- 3 Dairy Products
- 4 Broiler Hatchery Egg Products Poultry Slaughter
- 6 Cheddar Cheese Prices (8:30 a.m.)
- Crop Progress (after 4 p.m.)
- 10 Cotton Ginnings (8:30 a.m.) Crop Production (8:30 a.m.)
- 12 Broiler Hatchery Turkey Hatchery
- 13 Cheddar Cheese Prices (8:30 a.m.) Cattle on Feed Milk Production Sheep
- 16 Crop Progress (after 4 p.m.)
- 18 Broiler Hatchery
- 20 Cheddar Cheese Prices (8:30 a.m.) Cold Storage Farm Labor Livestock Slaughter
- 23 Chickens and Eggs
- Crop Progress (after 4 p.m.)
- 24 Catfish Processing
- 25 Cotton Ginnings (8:30 p.m.) Broiler Hatchery Peanut Stocks and Processing
- 27 Cheddar Cheese Prices (8:30 a.m.)
- 30 Agricultural Prices Crop Progress (after 4 p.m.)

Briefs

Specialty Crops

U.S. Orange Crop To Decline Sharply In 1998/99

After 2 years of record-setting citrus crops, adverse weather is expected to lower U.S. production to 15 million short tons in 1998/99, down 17 percent from last season. Wet and cool conditions have reduced production prospects in California, and wet weather in Florida this past winter followed by drought in the spring stressed orange trees, reducing fruit set from the previous 2 years. These conditions also slowed crop development in both States, and harvest is expected to begin later than last year.

Despite a 2-percent rise in bearing acreage, the California navel orange crop is forecast 23 percent lower than last year at almost 1.3 million tons and 15 percent below 2 years ago. Smaller fruit size and reduced fruit set are the major factors in the decline in the navel crop (which mostly enters the fresh market through spring). Because consumers generally prefer larger fruit, the smaller fruit size could limit price increases that would otherwise

result from the reduced supply. Freshmarket supplies from California will likely be down next summer as well—the California Valencia crop is forecast down 7 percent at 1.05 million tons.

Florida's citrus crop is expected to drop about 18 percent from last year and 16 percent from 1996/97, with orange production accounting for most of the decline. The orange crop, primarily used for juice, is forecast at 8.6 million tons, down 22 percent from last year. A smaller orange crop is also expected in Brazil, the world's other major orange juice producer.

Smaller orange crops in both countries could boost grower prices this season, which could lead to an increase in retail juice prices. However, large beginning stocks in the U.S. (season beginning December) and Brazil (season beginning last July) will partially offset declines in orange juice production.

The U.S. grapefruit crop is forecast at 2.63 million tons, up slightly from the final quantity utilized last year but down 9 percent from 1996/97. Larger crops in Florida and Texas are expected to offset smaller crops in California and Arizona. Stagnant demand for grapefruit (both fresh and processed) could push the final utilized production estimate below the current forecast. The size of this year's crop in Florida is expected to put downward pressure on prices for growers, who have experienced depressed prices over the past few years.

Citrus area in Florida has stopped expanding, according to the biennial citrus tree inventory released in early September by the Florida Agricultural Statistics Service. Area had been rebounding after losses from several freezes in the 1980's. As of January 1, 1998, citrus bearing acreage dropped 3 percent from the last survey in 1996 to 787,709 acres, marking the first decline in 11 years.

Since the mid-1990's, flat or declining returns for citrus growers have sharply lowered planting incentives in Florida. The State now has 609,209 bearing acres of oranges, 127,800 bearing acres of grapefruit, and 50,700 bearing acres of specialty citrus such as tangerines, temples, tangelos, and limes.

Grapefruit acreage in Florida declined 8 percent, more than any of the citrus crops. The decrease in acreage of white seedless varieties was greater than for red seedless. The proportion of land planted to red grapefruit varieties has increased throughout the 1990's, reflecting U.S. and European consumer preferences.

Acreage of oranges increased by less than 1 percent since 1996. Despite the minimal acreage gain, the number of orange trees increased 2 percent because newer blocks of trees, especially in the southwestern part of Florida, are planted at a higher density than older plantings. Valencia orange acreage, which accounts for about 48 percent of orange acreage, is up about 2 percent from 1996. Acreage of Hamlins (which rank second) increased 1 percent, and acreage declined for navel, ambersweet, and pineapple orange varieties. Susan Pollack (202) 694-5251 pollack@econ.ag.gov.

Florida Citrus Area Halts Expansion After Long Buildup

1,000 acres
1,000
800
600
400
Other citrus
Other oranges
Valencia
1980/81 84/85 88/89 92/93 96/97

Bearing acres.

Economic Research Service, USDA



U.S. Rice Pices Remain Fin Despite Bumper Supplies

Relatively high prices at planting pulled up U.S. rice area more than 5 percent in 1998 from a year earlier to nearly 3.22 million acres, the second consecutive annual increase. The larger planted area will more than offset a drop in yield to produce the third-largest rice crop on record. Long grain rice (produced mostly in the South) accounts for virtually all of the area expansion; plantings of medium grain (produced mostly in California, Arkansas, and Louisiana) are down substantially.

In both 1997 and 1998, rice prices were relatively high at planting compared with historic rice prices as well as with prices for virtually all alternative crops—primarily soybeans. And while season-average farm prices for corn, wheat, and soybeans were projected last spring to decline in 1998/99, no price drop was projected for rice. In fact, while rice prices have declined only slightly, season-average prices for other grains and for soybeans have dropped substantially since 1996/97.

Producers' initial planting intentions as reported in the *Prospective Plantings* report, released in March, were for 3.06 million acres of rice. However, plantings were revised upward in the June 30

Acreage report to nearly 3.22 million acres as strong monthly cash prices continued for rice compared with declining prices during the spring for soybeans, wheat, and feed grains.

The major factor behind the relatively strong U.S. rice prices in 1997/98 was the record level of U.S. rough (unhulled) rice exports, mostly southern long grain. In 1997/98, the U.S. exported a record 26 million cwt of rough rice, more than double a year earlier. Much of this rapid expansion in U.S. rough rice exports is due to El Niño-related production difficulties in Latin America that reduced crops in several importing and exporting countries (*AO* August 1998). For 1998/99, rough rice exports are projected at 24 million cwt, down only slightly from the 1997/98 record.

When the 1996 farm bill was signed, many industry analysts believed U.S. rice plantings would contract since prices were expected to decline. Exports were projected to drop as well with the smaller production. However, world trade has been much larger than expected, raising U.S. prices and keeping U.S. area and exports substantially above the levels projected in 1996.

Rice is produced in Arkansas, California, Louisiana, Texas, Mississippi, and Missouri. Arkansas is the largest rice producing State, accounting for 48 percent of total production in 1998, followed by California. Florida grows a very small amount of rice (not included in production statistics), mostly in rotation with sugarcane.

Strong Prices Drive Area Expansion

While U.S. farm prices have declined since the fall of 1997, they have averaged nearly \$9.45 per cwt—relatively high compared with historic rice prices. For example, from 1990/91 through 1994/95, U.S. rice prices averaged only \$6.98 per cwt, with prices exceeding \$9 in only four months. In February and March—when planting decisions were being made—U.S. monthly cash prices averaged more than \$9.60 per cwt.

In fact, U.S. rice prices exceeded \$9 per cwt from November 1995 through the end of 1997/98 market year, the longest period of sustained prices at this level since the late 1970's through the early 1980's. The average price during the first 2 months of the 1998/99 marketing year (August-July) was about \$9.18 per cwt. The recent price weakness has primarily been due to declining long grain prices, largely a response to expectations of a record long grain crop.

Despite the large crop, U.S. farm prices are projected to remain relatively firm during the 1998/99 marketing year, given expectations of record domestic use, continued strong exports, and smaller ending stocks. The 1998/99 season-average farm price is forecast at \$8.75 to \$9.75 per cwt, compared with \$9.64 for 1997/98. Until the start of 1998/99, virtually all of the price strength for the past 2 years had been for southern long grain rice.

Throughout 1997/98, prices for California medium grain rice remained at least \$1.50 per cwt below prices in the South and showed no strength during the year. This was due largely to a record 1997 California crop and weak export demand for U.S. medium grain rice. However, substantially smaller 1998 medium grain

crops in both California and the South mean that total supplies of medium grain rice will be extremely tight in 1998/99. As a result of expected tight supplies in 1998/99 and recent sales to Japan, California medium grain milled prices have already risen several times since June.

In contrast to the relatively strong rough rice prices, prices for long grain milled rice declined during most of the 1997/98 market year and have continued dropping in 1998/99. In late September, milled prices in Houston dropped to \$375 per ton—the lowest in nearly 3 years. Prices had been \$408 per ton from early March through mid-August, compared with \$463 per ton in early summer 1997. A steady decline in U.S. milled rice exports and a substantial price difference over Thai rice—the major competitor of the U.S. in certain international long grain milled rice markets—during most of the 1997/98 marketing year accounted for much of the drop in U.S. long grain milled prices that year.

Record Long Grain Plantings Offset Lower Yields

Long grain plantings accounted for virtually all of this year's acreage expansion and are projected to rise 10 percent to a record 2.5 million acres. All of the increase is in the South, where nearly all long grain rice is produced. Medium grain plantings are projected to drop almost 10 percent to 689,000 acres, the smallest since 1989. This decline is split evenly between the South and California.

In the South, long grain plantings rose 225,000 acres—or 10 percent—to almost 2.5 million acres. In contrast, medium grain area in the South dropped 35,000 acres—or 13 percent—from 1997 to 237,000 acres. Medium grain plantings account for less than 9 percent of total southern rice plantings in 1998, the smallest share on record.

Generally higher prices at planting for high-quality long grain rice than for medium grain account for most of the shift in southern acreage from medium to long grain. In addition, some disease

| Higher Rice Acreag | je To Offset Lowe | r Yield in 1998/99 | 9 | | | | | | | |
|--------------------|-------------------|--------------------|---------|-----------|--|--|--|--|--|--|
| | 1995/96 | 1996/97 | 1997/98 | 1998/99 | | | | | | |
| | | Millio | n acres | | | | | | | |
| Planted area | 3.12 | 2.82 | 3.06 | 3.22 | | | | | | |
| Harvested area | 3.09 | 2.80 | 3.03 | 3.19 | | | | | | |
| | Lbs./acre | | | | | | | | | |
| Yield | 5,621 | 6,121 | 5,896 | 5,696 | | | | | | |
| | | Millio | on cwt* | | | | | | | |
| Production | 173.9 | 171.3 | 178.9 | 181.5 | | | | | | |
| Total supply | 212.6 | 206.3 | 215.3 | 219.2 | | | | | | |
| Domestic use | 104.6 | 100.7 | 102.4 | 108.9 | | | | | | |
| Exports | 83.0 | 78.4 | 85.2 | 84.0 | | | | | | |
| Total use | 187.6 | 179.1 | 187.6 | 192.9 | | | | | | |
| Ending stocks | 25.0 | 27.2 | 27.7 | 26.3 | | | | | | |
| | | \$/ | /cwt | | | | | | | |
| Farm price | 9.15 | 9.96 | 9.64 | 8.75-9.75 | | | | | | |

Marketing year beginning August. 1998/99 forecast.

*Rough-rice equivalent.

Economic Research Service, USDA

problems with medium grain varieties in Louisiana in the mid-1990's have contributed to several years of declining medium grain plantings in the State. Low prices at planting and an extremely wet spring that hindered field work and severely delayed plantings accounted for most of the decline in California medium grain acreage.

This year's strong expansion in southern long grain acreage—with Arkansas accounting for the bulk—is also due to the high expected profitability of rice compared with alternative crops—mostly soybeans—given price expectations at planting. For many rice producers, strong prices and high yields (compared with most alternative crops) more than offset the higher costs of rice production. Rice has much higher chemical, custom operations, fuel, fertilizer, and fixed costs than most other field crops.

In contrast to the area expansions in the South, California rice plantings dropped 32,000 acres to 480,000, the smallest acreage in half a decade. All of the decrease was for medium grain.

The national average yield for all rice is forecast at 5,696 pounds per acre, down more than 3 percent from last year and the lowest since 1995. The smaller pro-

jected yield is due primarily to expectations of lower yields in California resulting from the late plantings, and severe heat and dryness in most of the South this summer.

The decline is also due partly to a shift in share of total planted acreage from the higher yielding California medium grain rice to the lower yielding southern long grain. California yields are typically a third or more higher than for southern rice, primarily a result of the varieties grown and the climate.

The 1998 U.S. rice crop is projected at 181.5 million cwt, up more than 1 percent from 1997. This is the second year in a row of increasing rice production, as the drop in average yield is more than offset by larger planted area. The long grain crop is projected to rise nearly 10 percent to a near-record 133.2 million cwt, while the medium grain crop is projected to drop more than 16 percent to 46.7 million cwt, the lowest since 1989.

U.S. rice supplies are projected to be 219.2 million cwt, up nearly 2 percent from 1997/98 and second only to the 1994/95 record of 230.9 million cwt. Slightly larger beginning stocks, greater imports, and a bigger crop account for the larger projected supplies.

Food Use To Grow More Slowly, While Exports Remain Strong

Since 1990/91, total domestic use of rice, which has nearly doubled in the past 15 years, has grown an average of more than 3 percent annually. However, this rate has slowed in the past 2 years, and USDA's long-term forecasts (released February 1998) indicated that total domestic use will grow at a little over 2 percent a year over the next 10 years.

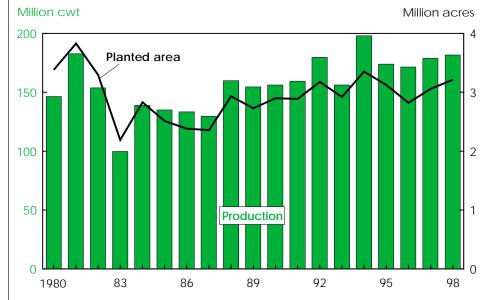
While changing culinary preferences of the U.S. population toward grain-based foods have spurred some of the growth, much of the expanded food use of rice has been due to large increases in the Asian and Hispanic segments of the U.S. population during the last two decades. A large and growing share of this consumption, however, has been supplied by imports of the preferred aromatic rices such as Thai jasmine and basmati from India and Pakistan. Projected total rice imports of 10 million cwt are expected to account for 12 percent of food use.

Total U.S. rice use, including exports as well as domestic use, is forecast at 192.9 million cwt in 1998/99, up 4 percent from a year earlier. Total domestic use (comprised of food use, beer, and seed) is projected at a record 103.4 million cwt, up nearly 2 percent from a year earlier. Food use accounts for all of the expansion, projected at a record 84 million cwt, up 2 million from 1997/98.

U.S. exports are projected at 84 million cwt in 1998/99, down slightly from a year earlier. Rough rice exports, while projected to drop 2 million cwt from last year's record to 24 million, would still be the second highest ever. Large purchases of U.S. rough rice by Brazil last spring for shipment in 1998/99 are behind the robust U.S. rough rice export forecast.

While U.S. rough rice exports have generally been increasing this decade, last year's record and this year's projected near-record shipments are due largely to El Niño-related production difficulties in much of Latin America. Rice crops in both importing and exporting countries in the region were reduced, magnifying the impact on U.S. exports.

U.S. Rice Plantings and Production Up for Second Consecutive Year



Rough-rice basis. 1998/99 preliminary. Economic Research Service, USDA

Latin American countries generally prefer to import rough as opposed to milled or brown rice. The U.S. is the only major rice exporting country that allows rough rice exports. (Most exporters prefer to ship milled rice to capture value added.) Thus, the U.S. was in a prime position to export large amounts of rough rice when crop shortfalls hit Latin America.

To encourage rough rice imports, nearly all Latin American rice importing countries place a lower tariff on rough than on milled, semi-milled, and brown rice. Mexico and five Central American countries (Costa Rica, Guatemala, Honduras, El Salvador, and Nicaragua) effectively ban imports of Asian rice for phytosanitary reasons. The bans are strongly promoted by local milling associations, as milled rice from Asia can underprice most domestic rice in Central America.

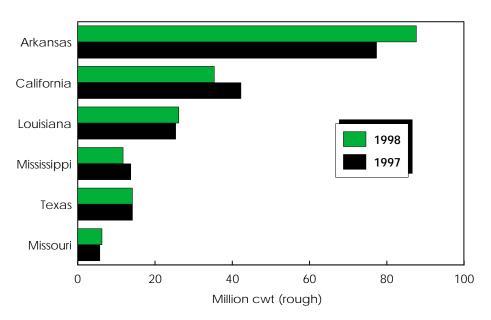
U.S. exports of milled rice are projected to rise nearly 800,000 cwt to 60 million, the first increase since 1994/95. Stiff price competition from Asian exporters in certain high-income markets—mainly the European Union, the Middle East, and South Africa—is a principal reason for the decline in U.S. milled rice exports in recent years. This year's expected increase in milled exports is due to larger

projected supplies and slightly lower expected prices.

Latin America, the Middle East, Europe, and Japan are expected to remain important markets for U.S. rice. Latin America is the largest market for U.S. rice exports, taking a record 46 percent on a milled-equivalent basis, nearly all southern long grain. Canada remains a steady U.S. long grain market, with U.S. exports expanding slightly. In recent years the U.S. has lost market share in South Africa and the Middle East, a result of lower priced Asian rice.

U.S. ending stocks are projected at 26.3 million cwt in 1998/99, down almost 5 percent from a year earlier. Stocks as a share of total use are forecast at 13.6 percent, down from 14.7 percent a year earlier and the lowest since 1995/96. Among grain types there are substantial differences in stocks. Expected tight supplies of medium grain rice have terminated the price premium enjoyed by producers of long grain milled rice in the U.S. since August 1996. Combined medium/short grain stocks are projected at 8.8 million cwt, the lowest since 1980/81. In contrast, long grain ending stocks are projected at 16.5 million cwt, the largest since 1992/93.

Arkansas Accounts for Almost Half of U.S. Rice Production in 1998



1998 projected. Economic Research Service, USDA

For the 1998/99 crop year, relatively strong world trade and an extremely tight global stocks-to-use ratio will likely limit any major drop in international trading prices. World rice trade in calendar year 1999 is projected at just over 20.4 million tons. While down 4.5 million tons from the 1998 record, trade would still be the third highest on record. However, weak currencies across most of Asia will continue to place downward pressure on international prices.

Internationally traded prices for long grain rice have dropped more than 5 percent since mid-September, due to a lack of new purchases. However, prices are

still well above year-earlier levels. Prices had dropped steadily in summer and fall 1997 in response to devaluation of the Thai currency in July. Thailand is the largest rice exporting country, followed by Vietnam. In late 1997, Indonesia and the Philippines began to purchase massive quantities of rice, as both importers faced severe shortfalls in their 1997/98 crops. International prices rose modestly throughout the first half of 1998 in response to record world demand. However, the substantial currency devaluations across much of Asia, and the region's severe financial and economic turmoil, have limited price increases to modest amounts.

Global rice production in 1998/99 is projected to drop more than 2 percent from the 1997/98 record of 385.4 million tons (milled-equivalent basis), a result of weaker crops in several major Asian rice producing countries, particularly China and India. With consumption projected to rise slightly to a record 385.1 million tons, ending stocks will drop nearly 17 percent to 43.4 million tons, the smallest since 1982/83. The stocks-to-use ratio is projected at 11.3 percent, the lowest since 1972/73.

While the global stocks-to-use ratio is projected to be extremely low, several factors indicate that any impact on world trading prices will be small. First, because the bulk of the reduction in stocks is projected to occur in China and India-two exporters—there will be little impact on import demand. Both countries had large stocks going into 1998/99, a result of record 1997/98 crops. Also, while crops in Japan and South Korea are projected smaller in 1998/99, no impact on trade volumes is likely because minimum import levels for both of these countries are fixed by the World Trade Organization and purchases above minimum levels are unlikely given expected stock levels.

Finally, large crops are projected for Thailand, Vietnam, and Pakistan—all major Asian rice exporting countries—and production is projected to rebound in both exporting and importing countries in South American. For the U.S., the larger expected crops in South America will likely limit U.S. rough rice exports and price strength in 1999.

Nathan Childs (202) 694-5292

nchilds@econ.ag.gov

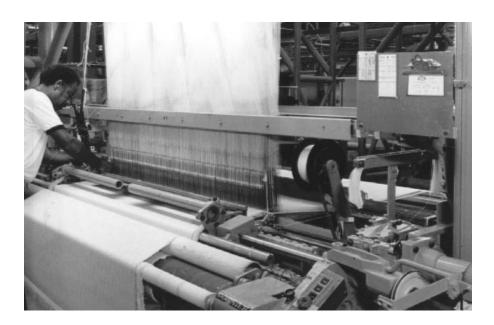
Off press this month . . .

Rice Yearbook

A product of the Economic Research Service, USDA

Call 1-800-999-6779. Ask for Stock # RCS-1998. \$21 per copy Text available this month on the ERS web site www.econ.ag.gov Click on "Outlook Reports"

World Agriculture & Trade



U.S. Cotton Production & Textile Imports Weave New Relationship

S. imports of cotton textiles (yarn and fabric) and apparel have been rising during 1998 at twice the average rate of the last decade. In part because of this import surge, U.S. textile mills are expected to use less cotton fiber in 1998/99. The U.S. milling industry purchases domestically produced cotton fiber almost exclusively, and farmers are seeing their best customer reduce its purchases.

At the same time, Asian textile exporters that traditionally ship to the U.S. are now expected to enter the next century with weaker currencies and with notably lower wages and incomes than originally expected, making their exports more price-competitive. Consequently, the coming termination of U.S. textile import quotas in 2005 could have a larger impact on textile trade and cotton production than previously anticipated.

During 1998, the U.S. economy and U.S. dollar have probably been their strongest against the rest of the world since the mid-1980's. In particular, the U.S. economy and currency have strengthened enormously relative to the textile exporting

countries affected by the Asian financial crisis. The volume of U.S. textile imports during January-June 1998 compared with a year earlier rose 22 percent. Imports from Thailand, South Korea, and Pakistan rose 40, 30, and 45 percent. Since the system of import quotas originally developed under the Multi-fibre Arrangement (MFA) will largely remain in effect through 2005, the potential for imports from these countries has limits. However, World Trade Organization (WTO) rules schedule a gradual elimination of quota restrictions through termination of selected quotas before 2005 and accelerated increases in quantities for the remaining quotas.

Changes in the nature of the textile industry and in trade policy have altered the structure of world textile trade since the 1980's. The increasing technical complexity and vertical integration of the U.S. textile industry, combined with several decades of global trade liberalization, suggest that U.S. cotton farmers will continue to find both domestic and foreign customers for their fiber despite a continually shrinking U.S. share of apparel sold in the U.S. and worldwide.

Apparel Imports Grow Despite Quotas

The MFA quotas evolved during the decades before the Uruguay Round of the General Agreement on Tariffs and Trade (GATT), largely in response to surging imports of apparel from developing countries. Although textiles have become increasingly capital-intensive, apparel remains probably the world's most laborintensive industrial good. Thus, apparel industries in high-wage, developed countries like the U.S. are inevitably vulnerable to competition from developing countries. The MFA quotas reflected this—quota levels and growth rates for apparel were more restrictive than those for yarn and fabric, and apparel quotas to meet WTO obligations are scheduled to terminate later, on average, than yarn and fabric quotas.

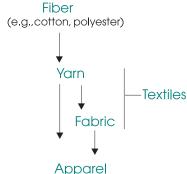
Apparel production has steadily migrated to developing countries despite the use of MFA quota restrictions. When these export-oriented apparel industries first appear in developing countries, they are likely to import fabric from more developed countries. Later, fabric production appears, with yarn imported from more developed countries. Finally, a yarn industry develops, and fiber is imported. A number of Asian countries have followed this sequence, beginning with Japan, followed by Taiwan and South Korea, then China and Southeast Asia. Bangladesh is at an intermediate stage it is just beginning to replace its textile imports with a domestic industry—and Vietnam has only recently begun expanding its apparel exporting industry.

Two generalizations help explain why a growing apparel industry in a developing country has traditionally resulted in a growing textile industry there. One concerns the reduction of transaction costs through vertical coordination between apparel and textile industries sharing a common economic environment.

Since developing countries may accumulate a significant share of their industrial financial and human capital through foreign trade in apparel, a logical application for these new resources is producing a familiar

World Agriculture & Trade

Transforming Fiber into Finished Goods



(and other finished goods such as floor coverings and household furnishings)

product with an assured market—textiles. Domestic textile production means the apparel and textile industries share a common currency and economy, making them less likely to incur the cost of changing customers (for the apparel industry) or suppliers (for the textile industry) during periods of economic disruption. This, along with cultural affinity, can encourage specialized investment within the industry with less risk that foreign firms—or their governments—will later appropriate inordinate shares of profits. Specialization permits economies of scale, and the reduced risk permits greater amounts of such cost-cutting investment.

The other generalization is that developing countries have traditionally pursued policies that favor nascent capital-intensive industries, even at the expense of existing labor-intensive ones. Their underlying premise has been that by increasing the amount of capital available per member of the labor force, the wages and wellbeing of the population will increase. To this end, developing countries have tended to subsidize capital, lowering the cost of developing a capital-intensive textile industry to supply the already existing local apparel firms. Also, trade policies have assured that effective rates of tariff protection for textile products have been high—often in excess of 100 percent.

While firms exporting apparel products have had widespread access to duty-free textile imports, this access has not always been consistent. Quantitative restrictions, credit restrictions, and duty prepayments, among other methods, have been used to

restrict imports. Moreover, sudden policy changes have also occurred. During the 1970's, for example, Indonesia assessed import duties on the basis of assumed prices rather than invoices, to avoid the underinvoicing inspired by currency controls. In 1975, the assumed prices on textiles were raised 75 percent. In contrast, Indonesia operated concessionary exchange rates for raw cotton and cotton yarn to facilitate its imports when the country's currency was overvalued.

Under these circumstances, the shift of apparel production out of a developed

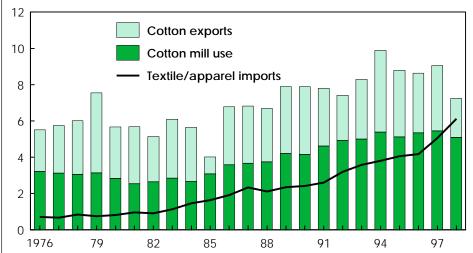
country like the U.S. has eventually resulted also in the shift of the initial fiberconsuming segment of the industry—yarn production. A continuation of this trend could have negative implications for U.S. cotton farmers since foreign yarn producers utilize a lower share of U.S. fiber than do domestic yarn producers. Indeed, during the 1970's and early 1980's, as the U.S. share of world cotton yarn production fell, the U.S. share of cotton fiber production fell as well. However, technical change and restructuring in the U.S. textile and apparel industry, and a global trend toward trade liberalization, mean these older relationships are not likely to exert as strong an influence.

U.S. Cotton: Fiber for a Restructuring Industry

Under competition from imports, and in response to the opportunities provided by the North America Free Trade Agreement (NAFTA) and the Caribbean Basin Initiative, the U.S. textile and apparel industry has become more amenable to undertaking foreign direct investment (FDI) and exporting from the foreign plants, two strategies that tend to preserve U.S. fiber consumption despite growing apparel imports. Attrition in the U.S. apparel industry has fallen more heavily on

Total Use of U.S. Cotton Has Trended Up Despite Rising Imports of Textiles and Apparel

Billion lbs.



Calendar years for imports. (1998 is annualized January-June data); marketing years beginning August 1 for use (1998 forecast); fiber equivalent. Cotton production was down sharply in 1998 due to lower yields (adverse weather) and acreage (including abandonment).

Economic Research Service, USDA

World Agriculture & Trade

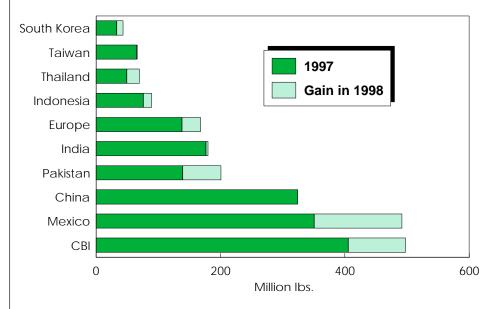
smaller firms, leading to an increase in the average firm's capital and knowledge intensity, making it more likely for the firm to engage in FDI or in outward processing. Firms engaged in outward processing of apparel perform only the most capital-intensive steps—like cutting fabric—in the developed country and contract the labor-intensive steps—such as sewing—to a developing country.

Vertical integration has proceeded since the 1980's to a greater extent in the U.S. industry than elsewhere, and a company that pursues vertical integration domestically is likely to pursue it globally. The same efforts to capture profits from intangible capital (e.g., brand loyalty, technical expertise) occur across borders as well as within the home country of the vertically integrated firm. Thus, with vertical integration, the capital-intensive production would more likely remain in the firm's home country than would be the case if the steps were performed by different firms, even as the labor-intensive steps are moved to low-wage countries.

These developments have not been confined to the U.S. Relatively greater rates of vertical integration and FDI are long-standing attributes of Japan's textile industry, and outward processing trade between Europe and Eastern Europe has also increased. Poland has become the second-largest market for the European Union's fabric (after the U.S.), resulting in a reduced cotton fabric trade deficit for the EU. Tunisia and Morocco are also important EU outward processing points.

Trade liberalization may reduce developing countries' ability to limit imports from developed countries. While it is possible for developing countries with balance-ofpayments problems to maintain quantitative restrictions on trade and remain in conformity with WTO provisions, the trend has been toward reducing such barriers. By not subsidizing and protecting capital-intensive industries, developing countries can more effectively exploit their comparative advantage in producing labor-intensive goods. This would imply importing capital-intensive intermediate products, and under conditions of general global liberalization of trade and investment, such new patterns are emerging.

U.S. Increased Imports of Cotton Textiles and Apparel from Most of Its Suppliers in 1998



January-June. CBI=Carribean Basin Initiative. China figures include Hong Kong. Economic Research Service, USDA

During the first half of 1998, Mexico was the largest source of textile and apparel imports to the U.S.—surging 40 percent from January to June—with a group of Caribbean Basin countries (led by Honduras and the Dominican Republic) the second largest, rising 23 percent. U.S. exports of textiles to these regions also rose substantially, and virtually all of the cotton fiber used by their industries was U.S.-origin. Liberalization of textile trade with Mexico and, to a lesser extent, the Caribbean Basin, has permitted increased FDI by U.S. companies and domestic investment by Mexican, Caribbean, and Central American firms oriented to using U.S. cotton.

In 1997, Asia accounted for less than half of all U.S. cotton textile and apparel imports, compared with 65 percent in 1993. North America (including Mexico and the Caribbean Basin) accounted for 37 percent of all U.S. cotton textile imports, compared with 19 percent in 1993. This textile trade shift can be quantified in terms of U.S.-produced cotton fiber, based on earlier research by USDA's Economic Research Service on the amount of U.S.-sourced cotton fiber embodied in textile and apparel imports. In 1993, nearly 2.1 billion pounds of

cotton textiles and apparel were imported by the U.S. from the 10 largest import sources, and about 26 percent of that was returning U.S.-produced fiber. During 1997, 3.1 billion pounds were imported from the 10 largest sources, and nearly 40 percent was returning U.S. fiber.

Forecasting developments in location of textile production requires careful examination of each country's domestic investment, changing industry structure, and changing international trade policies. With potentially large shifts in apparel production after 2005, this examination will be crucial in foreseeing the international distribution of textile production.

During most of the 20th century, increased foreign apparel production also pulled textile production into countries that utilized a higher proportion of non-U.S. fiber, reducing prospects for U.S. cotton growers. However, a continuation of more recent trends in industrial organization and trade policy could mean textile trade rather than production follows shifting apparel production, sustaining cotton production in the U.S.

Stephen MacDonald (202) 694-5305 stephenm@econ.ag.gov AO

Resources & Environment



Environmental Policy & the WTO: Unresolved Questions

he need of countries to protect their environment and to conserve natural resources does not fit neatly into the free market framework that underpins the Uruguay Round Agreement (URA) on Agriculture. Under the URA, participating nations are required to reduce the level of domestic support for agriculture as well as agricultural trade barriers. Unless carefully designed with economic forces in mind, environmental policies can effectively alter production and price levels and thereby affect trade patterns.

The World Trade Organization (WTO)—the institution that enforces URA rules—recognizes that environmental protection is a legitimate policy goal. When environmental policies affect agricultural production and trade only minimally, such policies are permitted by the WTO to be exempt from the country's commitments to reduce support to agriculture, under the "green box" exemption.

Policies that qualify for the green box exemption must not support prices or increase consumer costs, and must be financed by the federal government. Additionally, green box environmental programs must limit subsidies to the farmers' extra cost of complying, prices and production cannot be factors in green box land retirement programs, and land must be retired for a minimum of 3 years.

With criteria for green box designation already defined, discussions between now and the conclusion of the WTO mini-round on agriculture scheduled to begin in late 1999 may address a number of unresolved questions. These include how to assess tradeoffs between environmental protection and trade distortion and how to interpret "minimal trade-distorting effects."

The Rationale for Green Box Environmental Policies

In the U.S., numerous environmental and natural resource policies are designed to limit the damage caused by agricultural activities. These policies—frequently implemented through a partnership between Federal and State governments—are directed at a diverse range of problems that include:

- surface water pollution attributable to agricultural production, including runoff from crop and livestock operations;
- loss of wetlands that otherwise improve water quality, reduce soil

- erosion, conserve surface water, improve subsurface moisture, contribute to flood control, enhance natural beauty, and provide habitat for migratory waterfowl and other wildlife;
- soil erosion which diminishes recreation activities, increases costs of water treatment and dredging of navigation channels, silts up drainage and irrigation channels, and causes the sedimentation of reservoirs; and,
- improper management of land, which ultimately harms the environment through sedimentation, pollution of surface waters, and loss of highly productive and unique soil.

A free market framework may not effectively protect the environment and conserve scarce natural resources. For instance, when the private benefits of conservation practices are small, farmers and ranchers may contribute to unsustainable patterns of natural resource use and environmental degradation that is excessive from a public perspective. Such "market failures" are unlikely to be self-correcting, and the WTO acknowledges that environmental protection and natural resource conservation are legitimate public activities.

Environmental and natural resource green box policies rely on a mix of instruments such as technical assistance, cost-sharing, rental and easement payments, and conservation research and development. In the U.S., green box expenditures on rental and easement payments have increased in relative importance since 1985 compared with expenditures of cost-share programs for conservation practice applications. Most rental payments are administered through the Conservation Reserve Program (CRP) for land taken from production and turned into protective cover. Through the Environmental Quality Incentives Program (EQIP), producers implementing structural practices (e.g., animal waste management facilities, terraces, and filterstrips) receive up to 75 percent of the projected cost through cost-share agreements with the Government or receive incentive payments for adopting management practices for conservation purposes.

These policies can affect production levels, prices, and patterns of trade. If large

Resources & Environment

enough, land retirement programs can reduce production for specific commodities. In 1995, 9.4 percent of total cropland in the U.S. was idled under the CRP. Although the CRP aims to retire environmentally sensitive cropland, it may generate output effects. USDA's Economic Research Service has shown that environmentally sensitive land might not be economically marginal in terms of production potential.

Green box programs such as the EQIP can also affect costs through the introduction of more environmentally benign technologies which might not have been adopted in the absence of government cost-share programs. If new technologies are adopted on a large scale, they can potentially affect production, prices, and trade. Programs such as the CRP and EQIP are presumed to have minimal trade distorting effects, and are thereby eligible for WTO's green box exemption.

Questions for the Upcoming WTO Mini-Round

How will the tradeoffs between environmental protection and trade distortion be assessed?

A sound evaluation of tradeoffs is needed to determine eligibility for inclusion in the WTO's green box. Otherwise, national governments could use the green box exemption to further protectionist goals or to affect the terms of trade.

Environmental cost-benefit analysis can be used to evaluate the economic effects of green box policies. Data on indicators of environmental quality or degradation and on economic values of environmental quality changes are needed to implement this technique. But because markets for attributes of environmental quality may not exist, it is difficult to assign monetary values to environmental quality changes within a country.

Also, environmental quality changes in one country may be valued differently by consumers in other countries, further complicating the assignment of monetary values. For example, trade barriers may be erected to prevent imports of genetically modified crops, which are believed to enhance environmental quality in the

Selected Green Box Environmental Programs

USDA-Administered Programs

- *Environmental Quality Incentives Program (EQIP)*—Through use of technical assistance, education, cost-sharing, and incentive payments, EQIP assists farmers and ranchers in adopting management techniques that reduce nonpoint surface and groundwater pollution. Fiscal 1998 appropriated funding: \$200 million.
- *Conservation Reserve Program (CRP)*—Since 1987, the CRP has reduced annual erosion by one-fifth by providing rental payments to agricultural producers who retire environmentally sensitive cropland. Fiscal 1998 expenditures: \$1.8 billion.
- *Conservation Technical Assistance (CTA)*—Technical assistance for farmers and ranchers who implement soil and water conservation and water quality improvement. Fiscal 1998 appropriated funding: \$ 541.7 million.
- *Farmland Protection Program (FPP)*—The FPP allocates funds for purchase of conservation easements and other types of interests in land that has prime, unique, or other highly productive soils. USDA spent \$18 million in fiscal 1998.
- Wetland Reserve Program (WRP)—The WRP assists landowners in returning farmed wetlands to their original condition through easement payments and restoration cost-shares. Fiscal 1998 appropriated funding: \$218.5 million.
- *Emergency Conservation Program (ECP)*—The ECP provides financial assistance to farmers recovering from natural disasters and conserving water during periods of severe drought. Fiscal 1998 appropriated funding: \$34 million.
- *Wildlife Habitat Incentives Program (WHIP)*—The WHIP promotes voluntary implementation of on-farm management practices to improve wildlife habitat. Fiscal 1998 appropriated funding: \$30 million.
- *Conservation Farm Option (CFO)*—The CFO is a pilot program for eligible producers that consolidates payments from environmental programs into a single payment in exchange for implementing practices to protect soil, water, and wildlife. Fiscal 1998 authorized funding: \$15 million, reduced to \$11 million by supplemental appropriations.

Environmental Protection Agency-Administered Programs

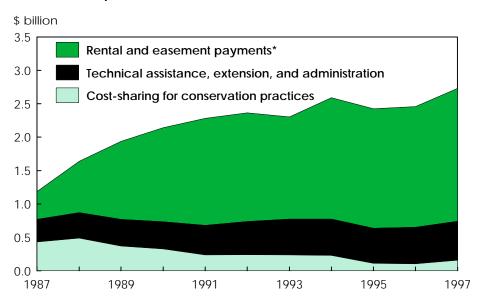
- *Nonpoint Source Program*—Established by Section 319 of the Clean Water Act, this program provides States with program guidance, technical support, and limited funding to establish nonpoint source pollution management plans. Fiscal 1998 operating plan budget: \$119.3 million.
- Coastal Zone Management Act Reauthorization Amendments (CZARA)—
 States with an approved coastal zone management program were required to submit to the Environmental Agency before July 1995 a program that outlines management measures for nonpoint source pollution to restore and protect coastal waters. Implementation of plans is not required until 1999.
- *Wellhead Protection Program*—Authorized by the Safe Drinking Water Act, this program protects groundwater supplies used as public drinking water from contamination by agricultural chemicals, including pesticides and nutrients. Fiscal 1998 operating plan budget: \$12.1 million.

State-Administered Programs

• Water Quality Improvement Programs—Some 44 States have passed laws or instituted programs to protect water quality. States use a variety of approaches to address water quality problems, including economic incentives, education programs, controls on inputs and practices, and controls on land use.

Resources & Environment

Rental and Easement Payments Account for Most U.S. Green Box Expenditures



*E.g., Conservation Reserve Program and Wetland Reserve Program. Economic Research Service, USDA

exporting country (by reducing chemical inputs in some cases) but not in the importing country (due to concerns about the technology in general). Such difficulties may limit the WTO's capacity to determine whether the environmental benefits supplied by a green box policy justify the costs of trade distortion.

Once countries submit domestic policies supposedly falling into the green box, how will the WTO decide which policies are legitimate?

Because certain environmental and natural resource conservation green box policies allow for small changes in production, a country may have an incentive to use domestic policy to increase its competitiveness on the world market (e.g., paying livestock producers for maintaining open landscapes). And while failure to adhere to most requirements of the green box is fairly easy to detect, the meaning of "minimal trade-distorting effects" is open to interpretation.

In some instances, environmental and natural resource policies are used to correct for pre-existing market failures (e.g., idling highly erodible land that would otherwise be used for production). In these cases, the actual effectiveness of such policies depends on their ability to reallocate resources in a way that results in *more than minimal* trade effects. An open question is whether placement of such policies in the green box will be permitted.

Will the WTO limit the scope of environmental subsidies?

Agriculture provides important environmental services while curtailing others. On the positive side, farmers who maintain certain wetlands help improve water quality and provide floodplain areas to lessen flooding damages. Wetland preservation may also protect wildlife. Agricultural production may result in carbon sequestration (i.e., in soil), helping to reduce greenhouse gas concentrations. Providing environmental amenities such as rural landscapes is another example.

But agricultural activities also contribute sediment, nutrients, pesticides, and potentially, pathogens to water resources, possibly impairing drinking water, recreation, navigation, and other water uses. Wetlands have been converted to agricultural use.

An issue for the WTO is the extent to which nations may provide support for producers to provide amenities or to prevent impairments to the environment. If a country subsidizes agriculture for supplying environmental services, criteria have yet to be settled upon for determining the legitimacy of such claims.

Should developing countries be treated in the same way as developed countries?

As a result of funding capabilities and preferences, developed countries typically spend proportionally more on funds for environmental and natural resource policies than their less developed counterparts. In reality, many of the environmental and resource problems faced by developing countries are more severe. Still at issue is whether less developed countries should be allowed greater flexibility in expenditures on environmental and resource policy.

Future discussion on the green box must tackle some of these issues. Otherwise, some countries could use the green box exemption to further a protectionist trade agenda or to manipulate the terms of trade in their favor.

Utpal Vasavada (202) 694-5494 and Steve Warmerdam (510) 643-5420 vasavada@econ.ag.gov warmerda@are.Berkeley.edu Dale Leuck, Mark Smith, and John Sullivan also contributed to this article.



Visit the WTO Briefing Room

on the *Economic Research Service web site*Learn more about the Uruguay Round Agreement
on Agriculture and other WTO topics

www.econ.ag.gov/briefing/wto/

China's Livestock Sector Growing Rapidly

hina is among the world's largest producers and consumers of animal proteins. Although current per capita consumption of animal proteins is lower in China than in wealthier nations, it is increasing rapidly as China's economy and personal incomes grow. China has the potential to become a growing market for feedstuffs or animal protein imports, as demand for meats, fish, eggs, and milk is expected to outstrip domestic feedgrain supplies.

Because of the sheer size of China's livestock sector, relatively small changes in either livestock inventory growth or meat demand trends can have important implications for projections of global trade in feedstuffs or animal proteins. China is already the world's largest consumer of most livestock meat products. However, due to China's relatively low income levels, per capita animal protein intake remains much lower than its neighbors'. For example, citizens of South Korea eat 5 times as much animal protein per capita as those of China, Japan 7 times, Taiwan 9 times. Per capita animal protein intake in the U.S. is 11 times greater.

China's per capita consumption is influenced partly by differences between urban and rural consumption of meat products. Policy measures that encouraged urban meat consumption have resulted in two very different animal protein consumption patterns. Urban per capita consumption of almost all the different protein products are double or triple that of rural residents.

Pork accounts for half of all the animal protein consumed by China's residents. Partly because of government policies discouraging pork production to favor more efficient animal protein operations, pork's share of total meat consumption fell from 86 percent in 1980 to 76 percent in 1996. Per capita consumption at home increased 63 percent in rural areas but rose little in urban areas.

Poultry meat and eggs contribute 26.5 percent of consumer animal protein intake. As per capita at-home consumption tripled (from 0.76 to 2.44 kilos) in the last 15 years, poultry meat's share in total meat consumption doubled, from 7.2 percent in 1980 to 14.2 percent in 1996. Per capita at-home consumption of eggs increased from 2.04 kilos to 5.03 kilos.

Beef, mutton, and milk account for only a small share of China's total animal protein consumption, but their shares have been increasing. Beef's share of total meat consumption rose from 2.5 percent in 1980 to 5 percent in 1996, as per capita at-home consumption tripled. Consumption of mutton and goat meat rose slightly from 4.2 percent to 4.4 percent of total meat consumption, while per capita at-home consumption doubled from 0.4 kilos per person in 1980 to 0.9 kilos in 1996. Milk accounts for only 0.2 percent of total animal protein consumption, and per capita consumption of milk in 1996 remained very low at 1.8 kilos.



Protein from fish accounts for 15.8 percent of animal protein consumption, but per capita at-home consumption of *aquatic products* in general is still low, despite increasing from 1.8 kilos in 1980 to 4.6 kilos in 1996.

Policy Changes Boost Production

Animal protein demand has been satisfied primarily from domestic output, which has grown dramatically during the last 10 years. Between 1986 and 1996, China's total animal product output reportedly tripled, from 38.1 to 118.3 million tons. However, recent research implies that the reported growth is exaggerated, suggesting that China's production was overstated during much of the 1990's and was understated during the 1980's.

Nonetheless, there is no doubt that livestock output has grown rapidly in the last decade. Since 1980, reform policies emphasizing market incentives and reducing or limiting government intervention have stimulated rapid growth in China's meat production. The government reduced control over livestock production and marketing, and followed this with reduced controls over oilseed products and other feed ingredients. Controls on grain production and marketing also influence the livestock sector. Farmers are required to sell a fixed quantity of grain to government-owned grain stations at a fixed quota price, but can choose among several outlets for any additional grain they produce. They may sell more grain to the government grain station at market or support prices, sell the grain at local open market prices, or feed the grain to livestock and later sell their animals or animal products at local markets.

Problems in Measuring China's Livestock Sector

Over the past decade, researchers at USDA's Economic Research Service have identified a number of analytical issues and anomalies associated with China's animal protein economy that make it difficult to assess the current situation as well as future trends in either livestock inventories or feed grain demand. Because of the size of China's population, small changes in per capita animal protein consumption lead to relatively substantial changes in projections of China's future demand for feedstuffs. Similarly, because of the enormous livestock inventory in China, relatively small changes in feed/meat conversion ratios lead to large changes in feed-stuff use projections. In addition, government production, marketing, and foreign trade policies continue to have an important effect on the livestock economy, and policy changes add additional uncertainty in producing projections.

A number of inconsistencies exists in the data describing this economy. For example, the quantity of grain used for feed reported in China's grain balance sheets is insufficient to support current reported livestock production. This suggests that either the feed/meat conversion rates are far more efficient than is likely, grain output is underreported, livestock production is overreported, or a combination of these possibilities. There is also a contradiction between growth in grain supplies and in livestock product output. Livestock product output has grown at about 5 percent per annum even when available grain supplies grew slowly, declined, or were stagnant.

Researchers in China and the U.S. have observed that per capita meat availability as measured by Government production and population statistics is roughly 50 percent larger in 1996 than per capita meat consumption as measured by the State Statistical Bureau (SSB) urban and rural household income and expenditure surveys. Scholars in China have questioned this growing gap.

Most researchers agree that some animals slaughtered have been double counted and that in some cases, local cadres inflated output statistics to earn better performance evaluations. Work is now underway at ERS to address the implications of a reduction in China's official meat production statistics on its projected future grain import demand.

China's State Statistical Bureau (SSB) recently began conducting sample surveys on livestock inventories. Results from the surveys and from China's first agricultural census (completed in January 1997) will provide useful benchmarks. In the latest *China's National Economic and Social Development Communique*, published on March 5, 1998, the SSB confirmed the problem of overreporting by revising red meat output downward by about 20 percent. However, China has not yet released revised detailed individual meat production or animal inventory numbers.

China's statistical officials have indicated that a revised historical series of detailed meat and animal inventory statistics will likely be released by China's State Statistical Bureau sometime in 1999. SSB officials are currently working on developing an appropriate methodology for re-estimating the individual historical data series. Once that is determined, the revised historical data series will have to be reviewed by other relevant government agencies (particularly the Ministry of Agriculture) before it is officially released.

Given the acknowledged problems in China's livestock data, the assessments in this article should be viewed as tentative. Despite the uncertainties, however, there is no doubt that livestock product markets in China are significant to world markets, and their importance is likely to become much greater in the future.

Frequent changes in government grain policies have been a leading factor in the variability of livestock output over the past few decades, a condition that is likely to continue into the next decade. Driven by rising concern that China's domestic feed grain and protein meal output may not meet rapidly increasing demand, the government is currently supporting feed-efficient livestock production, particularly poultry, fish, and grass-fed ruminant operations, while reducing support for less efficient pork producers.

Pork remains by far the largest component of China's livestock production sector, though its position is declining. Currently published data suggest production between 1980 and 1996 increased substantially, although overreporting has produced uncertainty in the pork output series. Constraints on feed grain supplies are likely to slow future growth of China's pork output. The structure of pork production has changed as output has gradually shifted from individual farm households using traditional technology (from 95 percent of output in the mid-1980's to about 80 percent in 1996) to specialized livestock-producing

households and commercial firms applying modern technology. The largest potential future gains in feeding efficiency will come from continued modernization of the pork sector.

Poultry production increased rapidly between 1980 and 1996, although data on poultry meat and egg production are less reliable than other livestock data because such a large proportion of the birds are produced by individual farm households, rather than in specialized operations. Egg output grew dramatically from 2.6 million tons in 1980 to 19.5 million in 1996; poultry meat output grew from 1.9 million tons in 1986 to 10.7 million in 1996.

Growth in poultry and egg output is expected to remain strong, though less rapid than in the previous 15 years. Production growth was stimulated not only by general market-oriented policy reforms, but also by direct government support for such projects as specialized poultry breeding operations. Government plans call for continued support of the poultry industry, but

| China Is a | Leading | Producer of | of Animal | Protein |
|------------|---------|-------------|-----------|----------------|
|------------|---------|-------------|-----------|----------------|

| | C | hina | | | S. |
|--------------|-------|----------|-------------|--------------|----------|
| | World | Output | World | out | Output |
| | rank | quantity | rank | tity | quantity |
| | | 1,000 | metric tons | 1,000 metric | |
| Pork | 1 | 42,500 | 2 | 500 | 8,609 |
| Beef | 3 | 5,400 | 1 | 100 | 11,714 |
| Mutton | 1 | 2,600 | 13 | 600 | 118 |
| Poultry meat | 2 | 11,500 | 1 | 500 | 14,945 |
| Fish | 1 | 27,300 | 5 | 300 | 5,900 |
| Milk | 18 | 7,650 | 2 | 350 | 71,150 |
| | | Millio | on pieces | Million piec | |
| Eggs | 1 | 336,000 | 2 | 000 | 77,520 |

Sources: USDA PS&D database, April 1998. Data on fish from UN Food and Agriculture Organization.

future growth will depend on changes in per capita income and relative prices among competing sources of animal protein.

Beef production rose sixfold between 1980 and 1996. More efficient use of crop residues in intensive crop-growing regions contributed to the rapid growth, but statistics may overstate actual growth over the last decade. Because cattle were treated in the communist accounting framework as a "means of production" (for draft use, rather than for meat) and were collectively owned until the early 1980's, beef consumption was discouraged and limited, creating a tendency to underreport beef cattle before the early 1980's. The expansion of more efficient feeding practices is expected to boost production in the coming decade. Ammoniation, for example, by adding anhydrous gas or liquid ammonia to high-cellulose-content crop residues, increases the crude protein and digestible energy levels in the feed, as well as increasing animal feed intake. Beef output is likely to increase more slowly than in the past, however, because of consumer preferences for other meats.

Mutton and goat meat output more than quadrupled between 1980 and 1996. A large part of the increase came from expansion in intensively cropped areas in eastern China, the result of government policies supporting more efficient feeding of crop residues. Such policies are expected to continue in the coming decade and should further stimulate production in intensively cropped areas.

China's consumers do not have a long or well established tradition of consuming *dairy products*, but dairy output has expanded dramatically from 1.4 million tons in 1980 to 7.4 million in 1996, primarily supplying increased urban demand for milk. Tighter feed grain supplies over the next decade will likely reduce the rate of growth, since limited pasture makes dairy production in China particularly grain-intensive. A portion of increasing domestic demand for dairy products such as nonfat dry powdered milk will likely be met through imports.

The most rapid growth of all animal protein products in China was in *aquatic product* output, which rose from 4.5 million tons in 1980 to 32.9 million in 1996, making China the world's

largest producer. Prospects for the coming decade are mixed. While the Government has invested heavily in equipment to increase the ocean catch, world fish resources are declining and traditional fishing nations are increasingly conscious of overfishing and damage to marine ecosystems.

China hopes to expand domestic aquaculture systems because fish are very efficient converters of grain and oilseed meals to meat. However, water shortages in North China and environmental problems in South China pose constraints to continued rapid expansion. Only moderate output growth is expected in the coming decade.

Trade May Fill Production Gaps

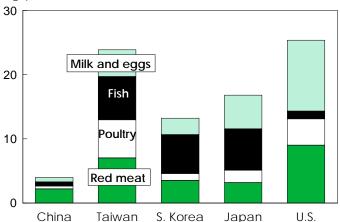
Several USDA studies of China's agricultural economy from 2005 to 2025 forecast that production of feed grains and oilseed meals will increase through time, but that demand for feed and oil meals will outpace supplies and the supply/demand gap will widen. China will almost certainly continue to encourage producers to implement efficiency measures to save on increasingly scarce feed supplies.

Government-supported programs to accelerate the growth of the poultry, aquatic, and grass-fed bovine animal industries are among the strategies already in place. Although pork remains the preferred meat in China, the price for pork may rise relative to other meats unless China is able to increase grain and oilseed production to meet domestic feed requirements. A relative increase in the pork price vis-a-vis other animal protein products will induce consumers to switch to other products.

Government policies have severely limited China's trade in livestock products. A strategy of grain self-sufficiency limited the growth of domestic livestock production in past decades, while a

The Mix of Animal Protein Consumption Varies By Country

Kg/person



1995 data from urban and rural household surveys for China and from food balance sheets for other countries.

Economic Research Service, USDA

strategy of meat self-sufficiency restricted imports of livestock products. China uses tariff-rate quotas, value-added taxes, and health and sanitary requirements to limit meat imports. China's meat exports face similar barriers in other countries as well as bans against China's meat products because of the existence of Newcastle and foot-and-mouth diseases. Thus trade accounts for a very small share of China's livestock economy. In 1996, China exported about 1 percent of its livestock products and imported a similar amount.

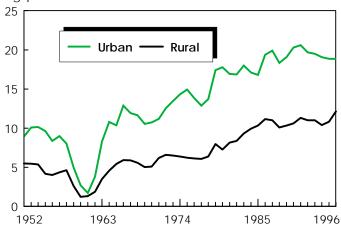
Despite these limitations, China is a major importer of poultry parts which have high domestic demand—particularly legs, wings, and feet—and is a major exporter of poultry parts primarily breasts—to other Asian countries. China currently exports feed grain (primarily corn), although it is expected to gradually return to being a net corn importer. China is also a major world importer of soybeans and soymeal to support domestic livestock production and is expected to require increasing amounts of protein meal imports in the future. Even though China achieves a fairly high percentage of self-sufficiency in grain production, even a small percentage shortfall leads to large imports because of China's enormous population.

In the next decade China may increasingly look to international markets for additional sources of feedstuffs or meats, as well as for export opportunities. China will likely continue to import some animal parts for which internal prices are high because of strong domestic demand, such as chicken wings and feet, and export animal parts for which domestic demand and internal price are low. China is preparing to join the World Trade Organization (WTO), and meat trade issues—e.g., comparative production advantages, sanitary and phytosanitary problems, and human health concerns—have been discussed within China.

China sees other benefits in exporting meat products as well. Its trade strategy allows for import of a portion of animal feeds to be transformed internally into value-added meat products, which are then to be exported back onto the world market. China is continuing to strengthen its export markets in Hong Kong and Macao and is looking for opportunities to increase sales to

Urban Outpaces Rural Per Capita Pork Consumption in China

Kg/person



Source: China's Livestock Statistics: 1948-89; estimates by Economic Research Service and China's State Statistical Bureau for 1990-96.

Economic Research Service, USDA

neighboring Japan, the Newly Independent States of the former Soviet Union, Indonesia, and the Middle East.

China's population will continue to grow, although the rate is projected to slow from 1 percent in 1996 to 0.7 percent in 2005, and large numbers of rural residents are expected to continue to migrate to urban centers over the next few decades. Increasing overall population and rural-to-urban migration is expected to foster continued rapid growth in demand for animal products. Demand for meats, fish, eggs, and milk in the future is likely to outstrip China's ability to produce these products using its own feed crops. Despite its measures to increase feed efficiency, China has the potential to become a large market for imported animal protein foods and/or feedstuffs.

Frederick W. Crook (202) 694-5217 and W. Hunter Colby (202) 694-5215

fwcrook@econ.ag.gov

whcolby@econ.ag.gov AO





Read more about China's livestock sector . . .

In the International Agriculture and Trade Report on

To order call 1-800-999-6779 and ask for the China report (WRS-98-3) \$16 per copy Text available on the Internet at http://jan.mannlib.cornell.edu/reports/erssor/international/wrs-

bb/1998/china/

Statistical Indicators

Summary Data

Table 1—Key Statistical Indicators of the Food & Fiber Sector_

| | | | | 1997 | | 199 | 98 | | 199 | 9 |
|---|----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|
| | 1997 | 1998 F | 1999 F | IV | I | II | III | IV | I | II |
| Prices received by farmers (1990-92=100) | 107 | | | 106 | 102 | 103 | | | | |
| Livestock & products | 98 | | | 97 | 94 | 96 | | | | |
| Crops | 115 | | | 113 | 110 | 112 | | | | |
| Prices paid by farmers (1990-92=100) | | | | | | | | | | |
| Production items | 117 | | | 116 | 115 | 114 | | | | |
| Commodities and services, interest, | 117 | | | 117 | 117 | 116 | | | | |
| taxes, and wages | | | | | | | | | | |
| Cash receipts (\$ bil.) ¹ | 209 | 198 | | 64 | 49 | 43 | 48 | 58 | | |
| Livestock | 97 | 94 | | 25 | 23 | 23 | 24 | 24 | | |
| Crops | 112 | 104 | | 39 | 26 | 21 | 24 | 34 | | |
| Market basket (1982-84=100) | | | | | | | | | | |
| Retail cost | 160 | | | 161 | 162 | 162 | | | | |
| Farm value | 106 | | | 105 | 102 | 104 | | | | |
| Spread | 189 | | | 191 | 194 | 194 | | | | |
| Farm value/retail cost (%) | 23 | | | 23 | 23 | 22 | | | | |
| Retail Prices (1982-84=100) | | | | | | | | | | |
| All food | 157 | 160 | 163 | 159 | 160 | 160 | 161 | 161 | 163 | 163 |
| At home | 158 | 160 | 163 | 159 | 160 | 160 | 161 | 160 | 163 | 163 |
| Away from home | 157 | 161 | 165 | 159 | 160 | 161 | 162 | 163 | 164 | 165 |
| Agricultural exports (\$ bil.) | 57.4 | 54.5 | 52.0 | 13.2 | 12.9 | 16.3 | 14.3 | 11.8 | 14.3 | 13.7 |
| Agricultural imports (\$ bil.) ² | 35.8 | 38.0 | 39.5 | 9.3 | 8.7 | 9.2 | 9.8 | 9.7 | 10.4 | 9.7 |
| Commercial production | | | | | | | | | | |
| Red meat (mil. lb.) | 43,209 | 44,851 | 43,815 | 11,167 | 11,038 | 11,015 | 11,400 | 11,398 | 10,846 | 10,788 |
| Poultry (mil. lb.) | 33,258 | 33,566 | 35,045 | 8,383 | 8,258 | 8,453 | 8,380 | 8,475 | 8,435 | 8,895 |
| Eggs (mil. doz.) | 6,460 156.6 | 6,647 157.3 | 6,790 161.0 | 1,667 38.2 | 1,637 39.2 | 1,635 40.9 | 1,660 38.7 | 1,715 38.6 | 1,665 39.7 | 1,675 41.5 |
| Milk (bil. lb.) | 150.0 | 157.5 | 101.0 | 30.2 | 39.2 | 40.9 | 30.1 | 36.0 | 39.1 | 41.5 |
| Consumption, per capita | 222.2 | 040.7 | 0440 | 50.0 | 54.7 | 50.0 | 50.0 | | 50.0 | 50.0 |
| Red meat and poultry (lb.) | 208.6 | 213.7 | 214.9 | 53.9 | 51.7 | 52.3 | 53.9 | 55.7 | 52.6 | 53.3 |
| Corn beginning stocks (mil. bu.) ³ | 425.9 | 883.2 | 1,307.8 | 2,496.6 | 883.2 | 7,246.8 | 4,939.9 | 3,039.8 | | |
| Corn use (mil. bu.) ³ | 8,849.5 | 8,950.9 | 9,350.0 | 1,617.1 | 3,004.2 | 2,307.8 | 1,903.7 | | | |
| Prices ⁴ | | | | | | | | | | |
| Choice steersNeb. Direct (\$/cwt) | 66.32 | 61.47 | 69-75 | 66.61 | 61.73 | 64.16 | 59.00 | 60-62 | 68-72 | 71-77 |
| Barrows and giltsIA, So. MN (\$/cwt) | 51.36 | 33.87 | 33-35 | 43.53 | 34.74 | 39.42 | 33.33 | 27-29 | 32-34 | 35-37 |
| Broilers12-city (cents/lb.) | 58.80 | 62.50 | 56-61 | 54.00 | 56.40 | 61.00 | 70.40 | 61-63 | 56-60 | 57-61 |
| EggsNY gr. A large (cents/doz.) | 81.20 13.34 | 75.90 15.15- | 70-76 13.60- | 88.20 14.53 | 79.00 14.60 | 66.50 13.73 | 76.00 15.23 | 80-84 17.00- | 72-78 14.65- | 62-68 12.90- |
| Milkall at plant \$/cwt) | 13.34 | 15.15- | 14.50 | 14.55 | 14.00 | 13.73 | 15.25 | 17.00- | 15.35 | 13.90 |
| WheatKC HRW ordinary (\$/bu.) | 4.16 | | | 3.82 | 3.62 | 3.32 | | | | |
| CornChicago (\$/bu.) | 2.78 | | | 2.74 | 2.72 | 2.49 | | | | |
| SoybeansChicago (\$/bu.) | 7.63 | | | 6.95 | 6.68 | 6.39 | | | | |
| Cottonavg. spot 41-34 (cents/lb) | 69.89 | | | 67.64 | 64.48 | 66.86 | | | | |
| | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| Farm real estate values | | | | | | | · | | | |
| Nominal (\$ per acre) | 668 | 683 | 703 | 713 | 736 | 782 | 832 | 890 | 945 | 1,000 |
| Real (1982 \$) | 539 | 528 | 521 | 507 | 511 | 529 | 550 | 574 | 598 | 620 |

F = Forecast. -- = Not available. 1. Quarterly data seasonally adjusted at annual rates. 2. Annual data based on Oct.-Sept. fiscal years ending with ye indicated. 3. Sept.-Nov. first quarter; Dec.-Feb. second quarter; Mar.-May third quarter; Jun.-Aug. fourth quarter; Sept.-Aug. annual. Use includes expo and domestic disappearance. 4. Simple averages, Jan.-Dec. 5. 1990-98 values as of January 1. 1989 values as of February

U.S. & Foreign Economic Data

Table 2—U.S. Gross Domestic Product & Related Data

| | | | | 1996 | | 199 | | | 199 | |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------|
| | 1995 | 1996 | 1997 | IV | | II | III | IV | I | I |
| | | Billions of o | current dolla | rs (quarterl | y data seas | onally adjus | sted at annu | ual rates) | | |
| Gross Domestic Product | 7,265.4 | 7,636.0 | 8,110.9 | 7,792.9 | 7,933.6 | 8,063.4 | 8,170.8 | 8,254.5 | 8,384.2 | 8,440. |
| Gross National Product Personal consumption | 7,287.1 | 7,674.0 | 8,102.9 | 7,829.0 | 7,952.4 | 8,062.3 | 8,162.0 | 8,234.9 | 8,369.4 | 8,421. |
| expenditures | 4,957.7 | 5,207.6 | 5,493.7 | 5,308.1 | 5,405.7 | 5,438.8 | 5,540.3 | 5,593.2 | 5,676.5 | 5,773. |
| Durable goods | 608.5 | 634.5 | 673.0 | 638.2 | 658.4 | 659.9 | 681.2 | 682.2 | 705.1 | 720 |
| Nondurable goods | 1,475.8 | 1,534.7 | 1,600.6 | 1,560.1 | 1,587.4 | 1,588.2 | 1,611.3 | 1,613.2 | 1,633.1 | 1,655 |
| Food | 735.1 | 756.1 | 780.9 | 766.6 | 775.5 | 775.8 | 785.3 | 787.1 | 796.9 | 810 |
| Clothing and shoes | 254.7 | 264.3 | 278.0 | 266.2 | 275.2 | 275.6 | 280.9 | 280.7 | 291.0 | 295 |
| Services | 2,873.4 | 3,038.4 | 3,220.1 | 3,109.8 | 3,159.9 | 3,190.7 | 3,247.9 | 3,297.8 | 3,338.2 | 3,398 |
| ross private domestic investment Fixed investment | 1,038.2 1,008.1 | 1,116.5 1,090.7 | 1,256.0 1,188.6 | 1,151.1 1,119.2 | 1,193.6 1,127.5 | 1,259.9 1,176.4 | 1,265.7 1,211.1 | 1,292.0 1,220.1 | 1,366.6 1,271.1 | 1,345 1,305 |
| Change in business inventories | 30.1 | 25.9 | 67.4 | 31.9 | 66.1 | 83.5 | 54.6 | 71.9 | 95.5 | 39 |
| Net exports of goods and services | -86.0 | -94.8 | -93.4 | -88.6 | -98.8 | -86.8 | -94.7 | -98.8 | -123.7 | -159 |
| Government consumption expenditures | | | - | | | | • | | | |
| and gross investment | 1,355.5 | 1,406.7 | 1,454.6 | 1,422.3 | 1,433.1 | 1,451.5 | 1,459.5 | 1,468.1 | 1,464.9 | 1,481 |
| | | Billions of 1 | 992 dollars | (quarterly | data seaso | nally adjust | ed at annua | ıl rates) 1 | | |
| Gross Domestic Product | 6,742.1 | 6,928.4 | 7,269.8 | 7,017.4 | 7,101.6 | 7,236.5 | 7,311.2 | 7,364.6 | 7,464.7 | 7,498 |
| Gross National Product | 6,779.5 | 7,008.4 | 7,266.2 | 7,105.3 | 7,167.8 | 7,239.3 | 7,307.0 | 7,350.7 | 7,455.2 | 7,485 |
| Personal consumption | | | | | | | | | | |
| expenditures | 4,595.3 | 4,714.1 | 4,913.5 | 4,756.4 | 4,818.1 | 4,872.7 | 4,947.0 | 4,981.0 | 5,055.1 | 5,130 |
| Durable goods | 583.6 | 611.1 | 668.6 | 617.1 | 637.8 | 653.8 | 679.6 | 684.8 | 710.3 | 729 |
| Nondurable goods Food | 1,412.6 690.5 | 1,432.3 689.7 | 1,486.3 | 1,441.2 | 1,457.8 | 1,477.1 697.3 | 1,495.7 700.6 | 1,494.3 | 1,521.2 706.8 | 1,540 716 |
| Clothing and shoes | 257.5 | 267.7 | 699.3 288.4 | 689.0 270.0 | 694.6 277.1 | 283.3 | 291.9 | 699.9 292.3 | 307.4 | 311 |
| Services | 2,599.6 | 2,671.0 | 2,761.5 | 2,698.2 | 2,723.9 | 2,743.6 | 2,775.4 | 2,804.8 | 2,829.3 | 2,866 |
| Gross private domestic investment | 991.5 | 1,069.1 | 1,206.4 | 1,104.8 | 1,149.2 | 1,211.3 | 1,215.8 | 1,241.9 | 1,321.8 | 1,306 |
| Fixed investment | 962.1 | 1,041.7 | 1,138.0 | 1,068.7 | 1,079.0 | 1,127.0 | 1,159.3 | 1,169.5 | 1,224.9 | 1,264 |
| Change in business inventories | 27.3 | 25.0 | 63.2 | 32.9 | 63.7 | 79.0 | 51.0 | 66.5 | 91.4 | 38 |
| Net exports of goods and services | -98.8 | -114.4 | -136.1 | -105.6 | -126.3 | -131.6 | -142.4 | -149.0 | -198.5 | -245 |
| Government consumption expenditures | | | | | | | | | | |
| and gross investment | 1,251.9 | 1,257.9 | 1,285.0 | 1,261.8 | 1,260.5 | 1,284.4 | 1,288.9 | 1,289.2 | 1,283.0 | 1,294 |
| GDP implicit price deflator (% change) | 2.3 | 1.9 | 1.9 | 1.8 | 2.8 | 1.6 | 1.2 | 1.2 | 0.8 | (|
| Disposable personal income (\$ bil.) | 5,277.0 | 5,534.7 | 5,795.1 | 5,630.1 | 5,711.2 | 5,767.9 | 5,821.8 | 5,879.4 | 5,937.1 | 5,988 |
| Disposable per. income (1992 \$ bil.) | 4,906.0 | 5,043.0 | 5,183.1 | 5,089.0 | 5,130.8 21,391 | 5,167.5 | 5,198.4 | 5,235.8 | 5,287.1 | 5,32 |
| er capita disposable pers. income (\$) er capita disp. pers. income (1992 \$) | 20,050 18,640 | 20,840 18,989 | 21,633 19,349 | 21,127 19,096 | 19,217 | 21,558 19,315 | 21,709 19,385 | 21,871 19,478 | 22,046 19,632 | 22,1 19,7 |
| J.S. resident population plus Armed | 10,040 | 10,303 | 13,343 | 13,030 | 13,217 | 13,313 | 19,505 | 13,470 | 13,002 | 13,1 |
| Forces overseas (mil.) ² | 263.0 | 265.5 | 267.9 | 266.4 | 266.9 | 267.5 | 268.1 | 268.9 | 269.3 | 269 |
| Civilian population (mil.) ² | 261.4 | 263.9 | 266.4 | 264.9 | 265.4 | 266.0 | 266.6 | 267.3 | 267.8 | 268 |
| | | Annual | | 1997 | | | 199 | 98 | | |
| | 1995 | 1996 | 1997 | Aug | Mar | Apr | May | Jun | Jul | A |
| | | | | Month | • | sonally adju | | | | |
| otal industrial production (1992=100) | 116.0 | 120.2 | 127.0 | 127.9 | 130.8 | 131.6 | 131.7 | 129.9 | 129.5 | 132 |
| eading economic indicators (1992=100) | 100.8 | 102.0 | 103.8 | 104.0 | 105.2 | 105.3 | 105.2 | 105.0 | 105.5 | 105 |
| ivilian employment (mil. persons)3 | 124.9 | 126.7 | 129.6 | 129.7 | 131.0 | 131.4 | 131.5 | 131.2 | 131.1 | 131 |
| civilian unemployment rate (%)3 | 5.6 | 5.4 | 4.9 | 4.9 | 4.7 | 4.3 | 4.3 | 4.5 | 4.5 | 4 |
| ersonal income (\$ bil. annual rate) | 6,072.1 | 6,425.2 | 6,784.0 | 6,826.7 | 7,033.9 | 7,055.3 | 7,085.9 | 7,104.4 | 7,134.2 | 7,172 |
| loney stock-M2 (daily avg.) (\$ bil.) ⁴ | 3,651.2 | 3,826.1 | 4,045.8 | 3,957.4 | 4,133.9 | 4,167.2 | 4,177.6 | 4,196.1 | 4,212.7 | 4,242 |
| hree-month Treasury bill rate (%) | 5.51 | 5.02 | 5.07 | 5.13 | 5.03 | 5.00 | 5.03 | 4.99 | 4.96 | 4. |
| AA corporate bond yield (Moodyís) (%) | 7.59 | 7.37 | 7.27 | 7.22 | 6.72 | 6.69 | 6.69 | 6.53 | 6.55 | 6. |
| otal housing starts (1,000) ⁵ | 1,354.1 | 1,476.8 | 1,474.0 | 1,383 | 1,585 | 1,546 | 1,538 | 1,620 | 1,706 | 1,6 |
| susiness inventory/sales ratio 6 | 1.43 | 1.40 | 1.38 | 1.38 | 1.38 | 1.39 | 1.39 | 1.38 | 1.38 | |
| ales of all retail stores (\$ bil.) ⁷ | 2,346.3 | 2,465.1 | 2,546.3 | 216.4 | 221.1 | 222.7 | 225.5 | 225.6 | 224.2 | 224 |
| Nondurable goods stores (\$ bil.) | 1,405.6 | 1,457.8 | 1,505.4 | 126.8 | 128.5 | 129.3 | 130.4 | 130.3 | 131.0 | 13 |
| Food stores (\$bil.) | 408.4 | 424.2 | 432.1 | 35.9 | 36.4 | 36.6 | 36.8 | 36.9 | 37.0 | 37 |
| Apparel and accessory stores (\$ bil.) | 109.5 | 113.0 | 116.8 | 10.1 | 10.4 | 10.5 | 10.4 | 10.3 | 10.5 | 10 |
| Eating and drinking places (\$ bil.) | 239.9 | 238.4 | 244.1 | 19.8 | 20.3 | 20.3 | 20.5 | 20.5 | 20.4 | 20 |

⁻⁻⁼ Not available. 1. In April 1996, 1992 dollars replaced 1987 dollars. 2. Population estimates based on 1990 census. 3. Data beginning January 1994 not directly comparable with data for earlier periods because of a major redesign of household survey questionnaire. 4. Annual data as of December of year listed. 5. Private, including farm. 6. Manufacturing and trade. 7. Annual total. *Information contact: David Johnson (202) 694-5324*

Table 3—World Economic Growth_____

| | Calendar year | | | | | | | | | | |
|-----------------------------|---------------|------------|-------------|------------|--------------|---------------|------------|------------|------------------------|------------|--|
| | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | |
| | | | | Real G | DP, annual p | ercent change | , | | | | |
| World | 2.6 | 1.8 | 1.9 | 1.6 | 3.1 | 2.7 | 3.4 | 3.4 | 1.9 | 2.0 | |
| less U.S. | 3.1 | 2.9 | 1.6 | 1.3 | 3.0 | 2.9 | 3.4 | 3.2 | 1.4 | 2.1 | |
| Developed Economies | 2.7 | 1.7 | 1.5 | 0.8 | 2.7 | 2.1 | 2.8 | 2.8 | 2.0 | 1.9 | |
| less U.S. | 3.5 | 3.0 | 1.0 | 0.0 | 2.4 | 2.1 | 2.5 | 2.1 | 1.2 | 1.9 | |
| United States | 1.2 | -0.9 | 2.7 | 2.3 | 3.5 | 2.3 | 3.4 | 3.9 | 3.4 | 1.8 | |
| Canada | 0.3 | -1.9 | 0.9 | 2.5 | 3.9 | 2.2 | 1.2 | 3.7 | 2.9 | 2.7 | |
| Japan | 5.1 | 3.8 | 1.0 | 0.3 | 0.7 | 1.4 | 4.1 | 0.8 | -2.5 | 0.3 | |
| Australia | 1.5 | -0.7 | 2.4 | 3.9 | 5.5 | 3.5 | 3.7 | 3.3 | 3.2 | 2.8 | |
| European Union | 3.1 | 3.6 | 0.9 | -0.6 | 3.0 | 2.4 | 1.7 | 2.6 | 2.8 | 2.5 | |
| Transition Economies | -4.2 | -6.9 | -11.2 | -6.5 | -8.8 | -1.5 | -2.2 | 5.1 | -2.0 | -7.7 | |
| Eastern Europe | -6.3 | -10.6 | -4.0 | 0.8 | 3.5 | 5.5 | 3.0 | 1.4 | 3.2 | 1.8 | |
| Poland | -10.8 | -6.3 | 2.0 | 3.8 | 4.2 | 7.1 | 5.9 | 7.0 | 5.9 | 3.9 | |
| Former Soviet Union | -3.5 | -5.5 | -13.7 | -9.3 | -13.9 | -5.1 | -5.1 | 7.5 | -5.0 | -13.6 | |
| Russia | -3.0 | -5.0 | -14.5 | -8.7 | -12.6 | -4.1 | -4.9 | 2.2 | -5.8 | -15.0 | |
| Developing Economies | 3.8 | 4.8 | 6.3 | 6.2 | 6.7 | 5.7 | 6.4 | 5.5 | 2.2 | 3.6 | |
| Asia | 5.8 | 6.6 | 8.9 | 8.7 | 9.4 | 8.7 | 7.9 | 6.2 | 1.7 | 3.9 | |
| East Asia | 5.1 | 8.8 | 10.9 | 10.7 | 10.8 | 9.3 | 8.4 | 7.8 | 3.9 | 5.8 | |
| China | 3.8 | 9.3 | 14.2 | 13.5 | 12.6 | 10.5 | 9.6 | 8.8 | 6.7 | 7.2 | |
| Taiwan | 5.4 | 7.5 | 6.8 | 6.3 | 6.5 | 6.0 | 5.7 | 6.8 | 5.0 | 4.4 | |
| Korea | 9.5 | 9.2 | 5.1 | 5.8 | 8.8 | 8.7 | 7.1 | 5.5 | -5.7 | 2.2 | |
| Southeast Asia | 8.2 | 6.8 | 6.9 | 7.4 | 8.1 | 8.5 | 7.3 | 4.9 | -7.6 | -2.1 | |
| Indonesia | 8.9 | 8.9 | 7.2 | 7.2 | 7.5 | 8.2 | 7.6 | 4.9 | -17.1 | -6.0 | |
| Malaysia | 9.7 | 8.8 | 7.8 | 8.4 | 9.4 | 9.5 | 8.0 | 7.8 | -6.0 | -1.2 | |
| Philippines | 2.7 | -0.2 | 0.3 | 2.1 | 4.4 | 4.8 | 5.7 | 5.1 | -2.2 | -3.4 | |
| Thailand | 11.7 | 8.0 | 8.1 | 8.3 | 8.8 | 9.2 | 6.4 | -0.4 | -8.0 | -2.1 | |
| South Asia | 5.6 | 1.2 | 5.6 | 4.6 | 7.0 | 6.9 | 7.1 | 2.4 | 3.7 | 3.1 | |
| India | 5.6 | 0.5 | 5.4 | 4.9 | 7.5 | 7.3 | 7.5 | 2.1 | 4.0 | 3.5 | |
| Pakistan | 4.5 | 5.5 | 7.8 | 1.9 | 3.9 | 5.1 | 4.6 | 3.0 | 2.0 | 1.0 | |
| Latin America | -0.1 | 3.7 | 2.9 | 3.9 | 5.2 | 0.2 | 3.6 | 4.8 | 2.5 | 2.8 | |
| Mexico | 5.1 | 4.2 | 3.6 | 2.0 | 4.5 | -6.3 | 5.2 | 7.0 | 4.0 | 3.3 | |
| Caribbean/Central | 0.7 | 4.0 | 8.0 | 4.9 | 4.4 | 2.9 | 8.1 | -2.9 | 4.3 | 3.9 | |
| South America | -1.4 | 3.5 | 2.6 | 4.5 | 5.4 | 1.9 | 3.0 | 4.4 | 2.1 | 2.6 | |
| Argentina Brazil | 0.2 -4.6 | 8.9 0.5 | 8.6 -1.2 | 6.0 4.5 | 7.4 5.8 | -4.6 3.0 | 4.4 2.9 | 8.2 2.9 | 5.4 0.6 | 4.4 1.7 | |
| Colombia | -4.0 4.1 | 1.8 | -1.2 4.2 | 5.2 | 5.8 | 5.3 | 2.9 | 2.9 | 2.8 | 3.5 | |
| Venezuela | 6.5 | 9.7 | 6.1 | 0.3 | -2.9 | 3.4 | -1.6 | 5.2 | -0.5 | 0.0 | |
| Middle East | 5.0 | 2.9 | 5.5 | 3.5 | 0.3 | 3.5 | 4.6 | 3.8 | 3.4 | 3.1 | |
| Israel | 6.8 | 2.9 7.7 | 5.5 5.6 | 5.6 | 6.9 | 3.5 7.0 | 4.6 4.5 | 3.o 2.1 | 3. 4 2.8 | 3.5 | |
| Saudi Arabia | 8.7 | 8.4 | 2.8 | -0.6 | 0.5 | 0.5 | 2.4 | 0.7 | 2.0 | 1.5 | |
| Turkey | 9.3 | 0.9 | 6.0 | 8.0 | -5.5 | 7.0 | 7.0 | 7.2 | 5.5 | 4.0 | |
| Africa | 1.6 | 0.7 | 1.2 | 1.3 | 2.7 | 2.8 | 4.7 | 4.6 | 3.0 | 3.5 | |
| North Africa | 2.2 | 1.0 | 2.2 | 0.1 | 2.8 | 2.4 | 5.6 | 2.5 | 4.2 | 4.1 | |
| Egypt | 5.6 | 1.1 | 4.4 | 2.9 | 3.9 | 4.6 | 5.0 | 4.9 | 3.7 | 4.0 | |
| Sub-Sahara | 1.1 | 0.5 | 0.3 | 2.5 | 2.6 | 3.2 | 4.0 | 6.6 | 1.9 | 2.9 | |
| South Africa | -0.5 | -1.0 | -2.6 | 1.5 | 2.8 | 3.1 | 3.3 | 1.7 | 0.4 | 2.2 | |
| | | | | | | ercent change | | | | | |
| Developed Economies | 5.2 | 4.6 | 3.5 | 3.0 | 2.6 | 2.5 | 2.4 | 2.1 | 2.1 | 2.0 | |
| Transition Economies | 38.6 | 95.8 | 656.6 | 609.3 | 268.4 | 124.1 | 41.4 | 27.8 | 13.8 | 8.7 | |
| Developing Economies | 68.1 | 36.2 | 38.3 | 46.8 | 50.7 | 21.7 | 13.7 | 8.5 | 10.2 | 8.5 | |
| Asia | 6.5 | 7.8 | 6.8 | 10.3 | 14.7 | 11.9 | 6.7 | 3.9 | 8.0 | 6.2 | |
| Latin America | 438.3 | 129.1 | 151.4 | 208.8 | 210.2 | 35.9 | 22.3 | 13.1 | 9.1 | 7.4 | |
| Middle East | 22.4 | 27.5 | 25.6 | 24.6 | 31.9 | 35.9 | 24.5 | 22.6 | 26.6 | 26.3 | |
| Africa | 17.5 | 24.3 | 32.1 | 31.2 | 34.6 | 33.9 | 26.2 | 10.5 | 7.5 | 6.0 | |

The last three years are either estimates or forecasts. Sources: Oxford Economic Forecasting; International Financial Statistics, IMF. *Information contact: Andy Jerardo (202) 694-5323*

Farm Prices

Table 4—Indexes of Prices Received & Paid by Farmers, U.S. Average_

| | Annual 1997 | | | | 199 | 8 | | | | |
|---|-------------|-------|-------|-------|---------|-------|-------|-------|-------|-------|
| | 1995 | 1996 | 1997 | Sep | Apr | May | Jun | Jul | Aug | Sep |
| | | | | | 1990-92 | =100 | | | | |
| Prices received | | | | | | | | | | |
| All farm products | 102 | 112 | 107 | 107 | 104 | 103 | 102 | 102 | 101 | 98 |
| All crops | 112 | 126 | 115 | 114 | 115 | 113 | 107 | 107 | 104 | 100 |
| Food grains | 134 | 157 | 128 | 126 | 112 | 109 | 96 | 89 | 85 | 86 |
| Feed grains and hay | 112 | 146 | 117 | 114 | 109 | 108 | 105 | 101 | 91 | 83 |
| Cotton | 127 | 122 | 112 | 115 | 103 | 105 | 113 | 110 | 109 | 108 |
| Tobacco | 103 | 105 | 104 | 101 | 97 | | | 94 | 93 | 102 |
| Oil-bearing crops | 104 | 128 | 130 | 111 | 112 | 112 | 111 | 111 | 98 | 93 |
| Fruit and nuts, all | 100 | 118 | 109 | 130 | 102 | 110 | 124 | 131 | 142 | 131 |
| Commercial vegetables | 120 | 109 | 120 | 118 | 156 | 128 | 108 | 122 | 111 | 112 |
| Potatoes and dry beans | 107 | 114 | 93 | 88 | 106 | 112 | 105 | 104 | 93 | 93 |
| Livestock and products | 92 | 99 | 99 | 99 | 95 | 95 | 98 | 96 | 98 | 97 |
| Meat animals | 85 | 87 | 92 | 92 | 84 | 87 | 86 | 79 | 78 | 73 |
| Dairy products | 98 | 114 | 102 | 100 | 107 | 101 | 107 | 108 | 118 | 124 |
| Poultry and eggs | 107 | 120 | 114 | 116 | 109 | 107 | 115 | 121 | 132 | 128 |
| Prices paid | | | | | | | | | | |
| Commodities and services, | | | | | | | | | | |
| interest, taxes, and wage rates | 110 | 115 | 116 | 117 | 116 | 116 | 115 | 115 | 114 | 113 |
| Production items | 109 | 115 | 116 | 117 | 114 | 114 | 113 | 112 | 111 | 110 |
| Feed | 104 | 130 | 122 | 124 | 111 | 108 | 105 | 106 | 101 | 97 |
| Livestock and poultry | 82 | 75 | 93 | 96 | 94 | 91 | 88 | 83 | 83 | 80 |
| Seeds | 110 | 115 | 119 | 120 | 123 | 123 | 123 | 123 | 123 | 123 |
| Fertilizer | 120 | 124 | 121 | 119 | 114 | 115 | 115 | 114 | 112 | 111 |
| Agricultural chemicals | 115 | 119 | 121 | 120 | 122 | 121 | 122 | 122 | 122 | 123 |
| Fuels | 94 | 105 | 103 | 110 | 91 | 94 | 88 | 85 | 83 | 80 |
| Supplies and repairs | 112 | 115 | 117 | 118 | 119 | 119 | 118 | 119 | 119 | 119 |
| Autos and trucks | 107 | 108 | 109 | 118 | 119 | 118 | 118 | 118 | 118 | 118 |
| Farm machinery | 120 | 125 | 128 | 130 | 132 | 132 | 132 | 132 | 132 | 132 |
| Building material | 114 | 115 | 118 | 118 | 118 | 118 | 118 | 118 | 119 | 119 |
| Farm services | 118 | 118 | 118 | 118 | 116 | 116 | 117 | 118 | 117 | 117 |
| Rent | 116 | 119 | 119 | 121 | 124 | 124 | 124 | 124 | 124 | 124 |
| Int. payable per acre on farm real estate debt | 101 | 105 | 106 | 107 | 108 | 108 | 108 | 108 | 108 | 108 |
| Taxes payable per acre on farm real estate | 109 | 112 | 115 | 115 | 119 | 119 | 119 | 119 | 119 | 119 |
| Wage rates (seasonally adjusted) | 114 | 117 | 123 | 119 | 130 | 130 | 130 | 125 | 125 | 125 |
| Production items, interest, taxes, and wage rates | 109 | 114 | 116 | 117 | 115 | 115 | 114 | 113 | 113 | 111 |
| Ratio, prices received to prices paid (%)* | 93 | 98 | 92 | 91 | 90 | 89 | 89 | 89 | 89 | 87 |
| Prices received (1910-14=100) | 647 | 712 | 679 | 678 | 662 | 656 | 650 | 645 | 643 | 625 |
| Prices paid, etc. (parity index) (1910-14=100) | 1,437 | 1,504 | 1,527 | 1,562 | 1,528 | 1,522 | 1,536 | 1,528 | 1,519 | 1,507 |
| Parity ratio (1910-14=100) (%)* | 45 | 47 | 45 | 43 | 43 | 43 | 43 | 42 | 42 | 41 |

⁻⁻⁼ Not available. Values for two most recent months are revised or preliminary. *Ratio of index of prices received for all farm products to index of prices paid for commodities and services, interest, taxes, and wage rates. Ratio uses the most recent prices paid index. Data for this table is taken from the publication *Agricultural Prices*, which is produced monthly by USDAís National Agricultural Statistics Service (NASS) and is available at http://jan.mannlib.cornell.edu/reports/nassr/price/pap-bb. For historical data or for categories not listed here, call the National Agricultural Statistics Service (NASS) Information Hotline at 1-800-727-9540, or access the NASS Home Page at http://www2.hqnet.usda.gov/nass.

Table 5—Prices Received by Farmers, U.S. Average_

| | | Annual ¹ | | 1997 | | | 1998 | В | | |
|--|--------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1995 | 1996 | 1997 | Sep | Apr | May | Jun | Jul | Aug | Sep |
| Crops | | | | | | | | | | |
| All wheat (\$/bu.) | 4.55 | 4.30 | 3.45 | 3.66 | 3.15 | 3.06 | 2.77 | 2.56 | 2.39 | 2.37 |
| Rice, rough (\$/cwt) | 9.15 | 9.96 | 9.64 | 9.85 | 9.30 | 9.41 | 9.51 | 9.57 | 8.95 | 9.40 |
| Corn (\$/bu.) | 3.24 | 2.71 | 2.60 | 2.52 | 2.41 | 2.34 | 2.28 | 2.20 | 1.90 | 1.76 |
| Sorghum (\$/cwt) | 5.69 | 4.17 | 4.00 | 3.99 | 3.76 | 3.71 | 3.96 | 3.80 | 3.32 | 3.02 |
| All hay, baled (\$/ton) | 82.20 | 95.80 | 102.50 | 100.00 | 101.00 | 103.00 | 91.80 | 88.60 | 88.50 | 86.50 |
| Soybeans (\$/bu.) | 6.72 | 7.35 | 6.50 | 6.72 | 6.26 | 6.26 | 6.15 | 6.13 | 5.43 | 5.15 |
| Cotton, upland (¢/lb.) | 75.40 | 69.30 | 66.90 | 6.94 | 62.20 | 63.50 | 68.50 | 66.50 | 66.20 | 65.20 |
| Potatoes (\$/cwt) | 6.77 | 4.93 | 5.68 | 5.09 | 6.17 | 6.52 | 6.04 | 5.93 | 5.30 | 5.31 |
| Lettuce (\$/cwt) ² | 23.50 | 14.70 | 17.30 | 22.30 | 27.90 | 14.70 | 11.40 | 15.40 | 16.20 | 15.20 |
| Tomatoes fresh (\$/cwt) ² | 25.80 | 28.00 | 33.00 | 25.20 | 36.50 | 34.70 | 27.00 | 40.80 | 20.40 | 23.60 |
| Onions (\$/cwt) | 11.10 | 10.60 | 12.60 | 10.30 | 21.70 | 18.50 | 15.90 | 21.30 | 15.10 | 12.90 |
| Beans, dry edible (\$/cwt) | 20.80 | 23.50 | 17.70 | 16.30 | 20.80 | 21.10 | 21.30 | 21.40 | 19.80 | 18.80 |
| Apples for fresh use (¢/lb.) | 24.00 | 20.80 | 22.20 | 25.90 | 19.20 | 18.20 | 16.30 | 16.10 | 19.00 | 22.70 |
| Pears for fresh use (\$/ton) | 272.00 | 376.00 | 276.00 | 368.00 | 292.00 | 373.00 | 353.00 | 405.00 | 457.00 | 420.00 |
| Oranges, all uses (\$/box) ³ | 4.23 | 5.01 | 4.57 | 7.15 | 5.82 | 5.68 | 6.41 | 5.85 | 5.37 | 4.97 |
| Grapefruit, all uses (\$/box) ³ | 2.30 | 2.43 | 1.74 | 4.22 | 1.36 | 0.42 | 3.58 | 3.66 | 6.01 | 11.09 |
| Livestock | | | | | | | | | | |
| Cattle, all beef (\$/cwt) | 61.80 | 58.70 | 63.10 | 63.60 | 63.00 | 63.00 | 61.80 | 58.40 | 57.40 | 55.80 |
| Calves (\$/cwt) | 73.10 | 58.40 | 78.90 | 86.90 | 90.80 | 88.90 | 81.70 | 76.60 | 76.90 | 73.80 |
| Hogs, all (\$/cwt) | 40.50 | 51.90 | 52.90 | 50.40 | 35.60 | 42.20 | 42.20 | 36.70 | 35.10 | 29.40 |
| Lambs (\$/cwt) | 78.20 | 88.20 | 90.30 | 90.20 | 66.10 | 63.30 | 88.70 | 81.00 | 79.90 | |
| All milk, sold to plants (\$/cwt) | 12.78 | 14.75 | 13.36 | 13.10 | 14.00 | 13.20 | 14.00 | 14.10 | 15.40 | 16.20 |
| Milk, manuf. grade (\$/cwt) | 11.79 | 13.43 | 12.17 | 12.70 | 12.10 | 11.30 | 13.00 | 14.00 | 14.60 | 15.30 |
| Broilers, live (¢/lb.) | 34.40 | 38.10 | 37.70 | 38.20 | 36.50 | 36.90 | 40.30 | 43.20 | 46.90 | 45.90 |
| Eggs, all (¢/doz.) ⁴ | 62.40 | 74.90 | 70.20 | 69.60 | 63.50 | 54.80 | 60.00 | 58.30 | 64.90 | 63.40 |
| Turkeys (¢/lb.) | 41.00 | 43.30 | 39.90 | 41.10 | 35.70 | 35.40 | 35.90 | 37.50 | 38.80 | 40.20 |

^{-- =} Not available. Values for last two months revised or preliminary. 1. Season-average price by crop year for crops. Calendar year average of monthly prices for livestock. 2. Excludes Hawaii. 3. Equivalent on-tree returns. 4. Average of all eggs sold by producers including, hatching eggs and eggs sold at retail. Data for this table is taken from the publication *Agricultural Prices*, which is produced monthly by USDA's National Agricultural Statistics Service (NASS) and is available at http://jan.mannlib.cornell.edu/reports/nassr/price/pap-bb. For historical data or for categories not listed here, call the National Agricultural Statistics Service (NASS) Information Hotline at 1-800-727-9540, or access the NASS Home Page at http://www2.hqnet.usda.gov/nass.

Producer & Consumer Prices

Table 6—Consumer Price Indexes for All Urban Consumers, U.S. Average (not seasonally adjusted)_

| | | Annual | | 1997 | | | 1998 | ; | | |
|-------------------------------------|-------|--------|-------|-------|----------|-------|-------|-------|-------|-------|
| | 1995 | 1996 | 1997 | Sep | Apr | May | Jun | Jul | Aug | Sep |
| | | | | | 1982-84= | =100 | | | | |
| Consumer Price Index, all items | 152.4 | 156.9 | 160.5 | 161.2 | 162.5 | 162.8 | 163.0 | 163.2 | 163.4 | 163.6 |
| CPI, all items less food | 153.1 | 157.5 | 161.1 | 161.8 | 163.0 | 163.3 | 165.3 | 163.6 | 163.9 | 164.1 |
| All food | 148.4 | 153.3 | 157.3 | 157.9 | 159.8 | 160.3 | 160.1 | 160.5 | 161.0 | 161.1 |
| Food away from home | 149.0 | 152.7 | 157.0 | 157.8 | 160.2 | 160.6 | 160.7 | 161.1 | 161.5 | 162.1 |
| Food at home | 148.8 | 154.3 | 158.1 | 158.6 | 160.2 | 160.7 | 160.5 | 160.8 | 161.4 | 161.2 |
| Meats ¹ | 135.5 | 140.2 | 144.4 | 145.6 | 140.8 | 141.0 | 141.5 | 141.8 | 142.2 | 141.6 |
| Beef and veal | 134.9 | 134.5 | 136.8 | 137.2 | 136.5 | 136.3 | 136.3 | 136.1 | 137.0 | 136.3 |
| Pork | 134.8 | 148.2 | 155.9 | 158.9 | 145.9 | 147.6 | 148.7 | 149.7 | 149.9 | 148.7 |
| Poultry | 143.5 | 152.4 | 156.6 | 156.8 | 154.3 | 155.6 | 155.5 | 156.6 | 158.9 | 159.3 |
| Fish and seafood | 171.6 | 173.1 | 177.1 | 176.5 | 181.0 | 180.9 | 180.5 | 181.4 | 183.5 | 181.5 |
| Eggs | 120.5 | 142.1 | 140.0 | 136.9 | 139.1 | 128.6 | 126.3 | 127.5 | 135.4 | 132.4 |
| Dairy products ² | 132.8 | 142.1 | 145.5 | 143.5 | 148.5 | 148.1 | 148.1 | 148.2 | 150.5 | 152.9 |
| Fats and oils ³ | 137.3 | 140.5 | 141.7 | 142.0 | 140.7 | 141.2 | 143.3 | 147.6 | 149.7 | 152.4 |
| Fresh fruits | 219.0 | 234.4 | 236.3 | 243.9 | 241.6 | 249.0 | 247.3 | 247.4 | 248.7 | 247.6 |
| Processed fruits | 137.1 | 145.2 | 148.8 | 148.5 | | | | | | |
| Fresh vegetables | 193.1 | 189.2 | 194.6 | 189.5 | 219.7 | 229.7 | 214.7 | 214.0 | 205.6 | 200.1 |
| Potatoes | 174.7 | 180.6 | 174.2 | 191.7 | 179.9 | 187.7 | 193.1 | 196.5 | 192.7 | 189.1 |
| Processed vegetables | 138.3 | 143.9 | 147.2 | 146.8 | | | | | | |
| Cereals and bakery products | 167.5 | 174.0 | 177.6 | 178.1 | 180.2 | 180.5 | 181.6 | 181.8 | 182.7 | 181.9 |
| Sugar and sweets | 137.5 | 143.7 | 147.8 | 148.5 | 150.1 | 149.5 | 150.5 | 149.9 | 150.2 | 150.8 |
| Nonalcoholic beverages ⁴ | 131.7 | 128.6 | 133.4 | 136.7 | 133.9 | 132.9 | 132.8 | 132.3 | 132.0 | 132.2 |
| Apparel | | | | | | | | | | |
| Apparel, commodities less footwear | 129.3 | 128.5 | 129.4 | 129.6 | | | | | | |
| Footwear | 125.4 | 126.6 | 127.6 | 127.4 | 127.9 | 128.3 | 128.2 | 127.0 | 127.7 | 128.6 |
| Tobacco and smoking products | 225.7 | 232.8 | 243.7 | 246.5 | 263.5 | 270.0 | 266.9 | 273.2 | 273.7 | 283.5 |
| Alcoholic beverages | 153.9 | 158.5 | 162.8 | 163.5 | 165.2 | 165.2 | 165.5 | 165.6 | 165.7 | 166.3 |

^{-- =} Not available. 1. Beef, veal, lamb, pork, and processed meat. 2. Includes butter. 3. Includes butter as of Jan í98. 4. Includes fruit juices as of Jan. í98. This table is compiled with data provided by the Bureau of Labor Statistics (BLS). BLS operates a website at http://stats.bls.gov/blshome.html and a Consumer Prices Information Hotline at (202) 606-7828.

Table 7—Producer Price Indexes, U.S. Average (not seasonally adjusted)___

| | Annual 1997 1998 | | | | | | | | | |
|---|------------------|----------------|----------------|----------------|----------------|-------|-------|-------|-------|----------------|
| | 1995 | 1996 | 1997 | Sep | Apr | May | Jun | Jul | Aug | Sep |
| | 1000 | 1000 | 1007 | ССР | 1982=1 | | oun | - Oui | 7 tug | |
| All commodities | 124.8 | 127.7 | 127.6 | 127.5 | 124.9 | 125.1 | 128.4 | 124.8 | 124.2 | 123.9 |
| Finished goods ¹ | 127.9 | 131.3 | 131.8 | 131.8 | 130.4 | 130.6 | 130.6 | 130.9 | 130.6 | 130.6 |
| All foods ² | 126.7 | 132.5 | 132.8 | 132.6 | 132.0 | 130.0 | 131.8 | 132.5 | 132.8 | 133.5 |
| Consumer foods | 129.0 | 133.6 | 134.5 | 134.7 | 133.8 | 133.6 | 133.6 | 134.6 | 135.0 | 135.4 |
| Fresh fruits and melons | 85.7 | 100.8 | 99.4 | 93.4 | 90.3 | 92.3 | 89.6 | 88.7 | 90.2 | 90.9 |
| Fresh and dry vegetables | 144.4 | 135.0 | 123.1 | 125.0 | 167.8 | 134.2 | 120.9 | 146.6 | 116.4 | 130.8 |
| Dried and dehydrated fruits | 121.2 | 124.2 | 124.9 | 125.7 | 122.5 | 127.4 | 127.4 | 127.4 | 125.6 | 125.6 |
| Canned fruits and juices | 129.4 | 137.5 | 137.6 | 136.2 | 134.1 | 134.1 | 133.8 | 134.6 | 134.4 | 134.2 |
| Frozen fruits, juices and ades | 115.9 | 123.9 | 117.2 | 114.8 | 112.2 | 115.3 | 115.4 | 117.5 | 116.3 | 116.5 |
| Fresh veg. except potatoes | 139.8 | 120.9 | 121.3 | 121.8 | 162.9 | 123.2 | 106.5 | 153.7 | 114.9 | 135.0 |
| Canned vegetables and juices | 116.6 | 121.2 | 120.1 | 119.3 | 121.8 | 121.9 | 121.9 | 122.2 | 123.1 | 122.6 |
| Frozen vegetables | 124.2 | 125.4 | 125.8 | 125.7 | 125.7 | 125.0 | 125.3 | 125.6 | 125.6 | 125.3 |
| Potatoes | 142.6 | 133.9 | 106.1 | 148.3 | 125.5 | 136.3 | 120.4 | 116.0 | 106.5 | 147.5 |
| Eggs for fresh use (1991=100) | 86.3 | 105.1 | 97.1 | 100.1 | 83.6 | 71.2 | 86.9 | 80.8 | 91.3 | 88.9 |
| Bakery products | 164.3 | 169.8 | 173.9 | 174.3 | 175.7 | 175.8 | 175.7 | 175.6 | 176.0 | 175.5 |
| Meats | 102.9 | 109.0 | 111.6 | 112.5 | 101.2 | 105.5 | 105.9 | 102.9 | 104.5 | 100.4 |
| Beef and veal | 100.9 | 100.2 | 102.8 | 104.0 | 99.2 | 103.5 | 99.9 | 99.5 | 100.8 | 98.3 |
| Pork | 101.4 | 120.9 | 123.1 | 123.5 | 96.1 | 104.2 | 111.2 | 100.8 | 104.8 | 96.1 |
| Processed poultry | 114.3 | 119.8 | 117.4 | 118.6 | 117.2 | 116.5 | 119.6 | 124.9 | 127.3 | 129.4 |
| Unprocessed and packaged fish | 170.9 | 165.9 | 178.1 | 169.7 | 185.8 | 186.4 | 178.3 | 180.0 | 180.4 | 178.4 |
| Dairy products | 119.7 | 130.4 | 128.1 | 127.1 | 131.4 | 131.3 | 132.8 | 135.3 | 139.4 | 145.1 |
| Processed fruits and vegetables | 122.4 | 127.6 | 126.4 | 125.3 | 125.3 | 125.7 | 125.8 | 126.4 | 126.5 | 126.3 |
| Shortening and cooking oil Soft drinks | 142.5 | 138.5 | 137.8 | 136.6 | 142.6 | 145.1 | 141.8 | 141.5 | 137.3 | 142.5 |
| Finished consumer goods less foods | 133.1 123.9 | 134.0 127.6 | 133.2 128.2 | 132.9 128.6 | 135.3 126.0 | 134.6 | 134.5 | 134.7 | 134.8 | 134.8 126.3 |
| | | | | | | 126.7 | 126.8 | 127.0 | 126.4 | |
| Alcoholic beverages | 128.5 | 132.8 | 135.1 | 134.1 | 135.0 | 134.9 | 134.9 | 134.9 | 134.9 | 135.0 |
| Apparel | 124.2 | 125.1 | 125.7 | 125.9 | 126.5 | 126.5 | 126.3 | 126.0 | 126.3 | 126.3 |
| Footwear | 139.2 | 141.6 | 143.7 | 144.4 | 144.7 | 144.6 | 144.7 | 144.4 | 145.0 | 144.7 |
| Tobacco products | 231.3 | 237.4 | 248.9 | 256.4 | 271.0 | 278.4 | 278.7 | 278.7 | 286.4 | 287.3 |
| Intermediate materials ³ | 124.9 | 125.8 | 125.6 | 126.0 | 123.3 | 123.5 | 123.4 | 123.4 | 123.1 | 123.0 |
| Materials for food manufacturing | 119.5 | 125.3 | 123.2 | 123.1 | 121.7 | 123.7 | 122.9 | 122.6 | 123.3 | 124.6 |
| Flour | 122.8 | 136.8 | 118.7 | 118.0 | 112.7 | 112.4 | 109.0 | 107.8 | 104.0 | 102.8 |
| Refined sugar ⁴ | 119.4 | 123.7 | 123.6 | 122.6 | 119.5 | 119.2 | 122.3 | 120.3 | 119.9 | 120.7 |
| Crude vegetable oils | 129.8 | 118.1 | 116.6 | 112.7 | 138.9 | 143.7 | 130.6 | 126.3 | 120.4 | 131.4 |
| Crude materials ⁵ | 102.7 | 113.8 | 111.1 | 108.5 | 100.3 | 100.5 | 98.5 | 97.1 | 94.6 | 92.9 |
| Foodstuffs and feedstuffs | 105.8 | 121.5 | 112.2 | 110.6 | 105.8 | 106.2 | 105.6 | 103.8 | 103.0 | 100.9 |
| Fruits and vegetables and nuts ⁶ | 108.4 | 122.5 | 115.5 | 112.8 | 128.4 | 116.2 | 109.4 | 119.0 | 108.0 | 114.1 |
| Grains | 112.6 | 151.1 | 111.2 | 107.2 | 99.8 | 98.7 | 93.8 | 91.4 | 82.8 | 77.3 |
| Slaughter livestock | 92.8 | 95.2 | 96.3 | 95.8 | 87.9 | 90.7 | 90.7 | 81.8 | 82.1 | 79.0 |
| Slaughter poultry, live | 125.6 | 140.5 | 131.0 | 139.9 | 128.5 | 131.1 | 140.5 | 156.7 | 167.8 | 164.1 |
| Plant and animal fibers | 155.3 | 129.4 | 117.0 | 118.3 | 101.5 | 107.9 | 117.9 | 120.9 | 115.8 | 117.8 |
| Fluid milk | 93.7 | 107.9 | 97.5 | 97.0 | 101.4 | 98.1 | 100.5 | 107.0 | 114.2 | 119.8 |
| Oilseeds | 112.6 | 139.4 | 140.8 | 130.2 | 118.1 | 121.0 | 115.9 | 120.5 | 104.6 | 101.2 |
| Leaf tobacco | 78.9 | 89.4 | | 103.2 | 99.6 | | | | 93.8 | 104.1 |
| Raw cane sugar | 119.7 | 118.6 | 116.8 | 118.3 | 117.5 | 118.1 | 118.1 | 119.3 | 118.4 | 116.0 |

^{1.} Commodities ready for sale to ultimate consumer. 2. Includes all raw, intermediate, and processed foods (excludes soft drinks, alcoholic beverages, and manufactured animal feeds). 3. Commodities requiring further processing to become finished goods. 4. All types and sizes of refined sugar. 5. Products entering market for the first time that have not been manufactured at that point. 6. Fresh and dried. This table is compiled with data provided by the Bureau of Labor Statistics (BLS). BLS operates a website at http://stats.bls.gov/blshome.html and a Producer Prices Information Hotline at (202) 606-7705.

Farm-Retail Price Spreads

Table 8—Farm-Retail Price Spreads_

| | | Annual | | 1997 | | | 1998 | | | |
|----------------------------------|--|--------|--------|--------|-------|-------|--------|--------|-------|-------|
| | 1995 | 1996 | 1997 | Sep | Apr | May | Jun | Jul | Aug | Sep |
| Market basket ¹ | <u>, </u> | | | | | | | | | |
| Retail cost (1982-84=100) | 149.4 | 155.9 | 159.7 | 160.0 | 161.8 | 162.7 | 162.2 | 162.6 | 163.4 | 163.2 |
| Farm value (1982-84=100) | 102.7 | 111.1 | 106.2 | 105.2 | 103.4 | 103.4 | 102.7 | 103.0 | 103.3 | 103.1 |
| Farm-retail spread (1982-84=100) | 174.6 | 180.1 | 188.6 | 189.6 | 193.2 | 194.7 | 194.3 | 194.7 | 195.8 | 195.6 |
| Farm value-retail cost (%) | 24.1 | 24.9 | 23.3 | 23.0 | 22.4 | 22.2 | 22.2 | 22.2 | 22.1 | 22.1 |
| Meat products | | | 20.0 | 20.0 | | | | | | |
| Retail cost (1982-84=100) | 135.5 | 140.1 | 144.4 | 145.6 | 140.8 | 141.0 | 141.5 | 141.8 | 142.2 | 141.6 |
| Farm value (1982-84=100) | 93.8 | 100.4 | 101.2 | 100.5 | 86.9 | 91.4 | 93.4 | 89.1 | 85.4 | 81.3 |
| Farm-retail spread (1982-84=100) | 178.2 | 180.9 | 188.6 | 191.9 | 196.1 | 191.9 | 190.9 | 195.9 | 200.4 | 203.5 |
| Farm value-retail cost (%) | 35.1 | 36.3 | 35.5 | 34.9 | 31.3 | 32.8 | 33.4 | 31.8 | 30.4 | 29.1 |
| Dairy products | | | | | | | | | | |
| Retail cost (1982-84=100) | 132.8 | 142.1 | 145.5 | 143.5 | 148.5 | 148.1 | 148.1 | 148.2 | 150.5 | 152.9 |
| Farm value (1982-84=100) | 92.2 | 107.2 | 98.0 | 94.0 | 106.1 | 105.5 | 103.4 | 103.2 | 113.9 | 120.1 |
| Farm-retail spread (1982-84=100) | 170.3 | 174.3 | 189.3 | 189.2 | 187.6 | 187.4 | 189.3 | 189.7 | 184.3 | 183.1 |
| Farm value-retail cost (%) | 33.3 | 36.2 | 32.3 | 31.4 | 34.3 | 34.2 | 33.5 | 33.4 | 36.3 | 37.7 |
| Poultry | 00.0 | 00.2 | 02.0 | 01.1 | 01.0 | 01.2 | 00.0 | 00.1 | 00.0 | 01.1 |
| Retail cost (1982-84=100) | 143.5 | 152.4 | 156.6 | 156.8 | 154.3 | 155.6 | 155.5 | 156.6 | 158.9 | 159.3 |
| Farm value (1982-84=100) | 113.7 | 126.2 | 120.6 | 124.2 | 116.2 | 117.2 | 126.6 | 135.3 | 145.9 | 143.9 |
| Farm-retail spread (1982-84=100) | 177.7 | 182.6 | 198.1 | 194.3 | 198.1 | 199.9 | 188.8 | 181.2 | 173.9 | 177.1 |
| Farm value-retail cost (%) | 42.4 | 44.3 | 41.2 | 42.4 | 40.3 | 40.3 | 43.6 | 46.2 | 49.1 | 48.3 |
| Eggs | 72.7 | 44.0 | 71.2 | 72.7 | 40.0 | 40.0 | 40.0 | 40.2 | 40.1 | 40.0 |
| Retail cost (1982-84=100) | 120.5 | 142.1 | 140.0 | 136.9 | 139.1 | 128.6 | 126.3 | 127.5 | 135.4 | 132.4 |
| Farm value (1982-84=100) | 91.1 | 114.7 | 99.3 | 99.0 | 85.2 | 67.0 | 77.2 | 74.2 | 88.3 | 85.2 |
| Farm-retail spread (1982-84=100) | 173.2 | 191.4 | 213.0 | 205.0 | 235.8 | 239.2 | 214.6 | 223.2 | 220.0 | 217.1 |
| Farm value-retail cost (%) | 48.6 | 51.9 | 45.6 | 46.5 | 39.4 | 33.5 | 39.2 | 37.4 | 41.9 | 41.4 |
| Cereal and bakery products | 40.0 | 01.0 | 40.0 | 40.0 | 00.4 | 00.0 | 00.2 | 07.4 | 41.0 | 71 |
| Retail cost (1982-84=100) | 167.5 | 174.0 | 177.6 | 178.1 | 180.2 | 180.5 | 181.6 | 181.8 | 182.7 | 181.9 |
| Farm value (1982-84=100) | 110.1 | 125.6 | 107.7 | 106.3 | 99.2 | 97.3 | 92.5 | 88.7 | 84.8 | 84.7 |
| Farm-retail spread (1982-84=100) | 175.5 | 180.7 | 187.4 | 188.1 | 191.5 | 192.1 | 194.0 | 194.8 | 196.4 | 195.5 |
| Farm value-retail cost (%) | 8.1 | 7.2 | 7.4 | 7.3 | 6.7 | 6.6 | 6.2 | 6.0 | 5.7 | 5.7 |
| Fresh fruit | 0.1 | 1.2 | 7.4 | 7.5 | 0.7 | 0.0 | 0.2 | 0.0 | 5.7 | 5.7 |
| Retail cost (1982-84=100) | 226.9 | 243.0 | 245.1 | 255.6 | 249.9 | 258.8 | 256.6 | 255.7 | 259.2 | 260.6 |
| Farm value (1982-84=100) | 136.2 | 151.7 | 137.0 | 147.2 | 140.4 | 138.6 | 135.7 | 132.3 | 136.0 | 139.5 |
| Farm-retail spread (1982-84=100) | 268.7 | 285.2 | 295.0 | 305.6 | 300.5 | 314.3 | 312.4 | 312.7 | 316.0 | 316.5 |
| Farm value-retail cost (%) | 19.0 | 19.7 | 17.7 | 18.2 | 17.7 | 16.9 | 16.7 | 16.3 | 16.6 | 16.9 |
| Fresh vegetables | 13.0 | 13.7 | 17.7 | 10.2 | 17.7 | 10.3 | 10.7 | 10.5 | 10.0 | 10.3 |
| Retail cost (1982-84=100) | 193.1 | 189.2 | 194.6 | 189.5 | 219.7 | 229.7 | 214.7 | 214.0 | 205.6 | 200.1 |
| Farm value (1982-84=100) | 130.1 | 113.3 | 118.7 | 117.7 | 147.8 | 134.5 | 105.5 | 134.3 | 104.2 | 103.2 |
| Farm-retail spread (1982-84=100) | 225.5 | 228.3 | 233.6 | 226.4 | 256.6 | 278.7 | 270.9 | 255.0 | 257.7 | 249.9 |
| Farm value-retail cost (%) | 22.9 | 20.3 | 20.7 | 21.1 | 230.0 | 19.9 | 16.7 | 21.3 | 17.2 | 17.5 |
| · / | 22.9 | 20.3 | 20.7 | 21.1 | 22.0 | 19.9 | 10.7 | 21.3 | 17.2 | 17.5 |
| Processed fruits and vegetables | 407.5 | 4444 | 4.47.0 | 447.0 | 440.0 | 450.0 | 450.0 | 454.0 | 450.5 | 450.4 |
| Retail cost (1982-84=100) | 137.5 | 144.4 | 147.9 | 147.6 | 148.8 | 150.9 | 150.8 | 151.8 | 152.5 | 152.1 |
| Farm value (1982-84=100) | 120.5 | 121.5 | 115.9 | 114.6 | 116.7 | 116.4 | 115.8 | 115.0 | 114.6 | 114.1 |
| Farm-retail spread (1982-84=100) | 142.8 | 151.6 | 157.9 | 157.9 | 158.8 | 161.7 | 161.7 | 163.3 | 164.3 | 164.0 |
| Farm value-retail cost (%) | 20.8 | 20.0 | 18.6 | 18.5 | 18.6 | 18.3 | 18.3 | 18.0 | 17.9 | 17.8 |
| Fats and oils | 407.0 | 440.5 | 444 7 | 4.40.0 | 440.7 | 444.0 | 4.40.0 | 4.47.0 | 440.7 | 450 4 |
| Retail cost (1982-84=100) | 137.3 | 140.5 | 141.7 | 142.0 | 140.7 | 141.2 | 143.3 | 147.6 | 149.7 | 152.4 |
| Farm value (1982-84=100) | 121.3 | 112.3 | 109.4 | 105.7 | 126.9 | 128.1 | 119.6 | 114.9 | 112.9 | 120.5 |
| Farm-retail spread (1982-84=100) | 143.1 | 150.9 | 153.6 | 155.4 | 145.8 | 146.0 | 152.0 | 159.6 | 163.2 | 164.1 |
| Farm value-retail cost (%) | 23.8 | 21.5 | 20.8 | 20.0 | 24.3 | 24.4 | 22.5 | 20.9 | 20.3 | 21.3 |

Table 8—Farm-Retail Price Spreads (continued)_

| | | Annual | | 1997 | | | 1998 | | | |
|---------------------------------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1995 | 1996 | 1997 | Sep | Apr | May | Jun | Jul | Aug | Sep |
| Beef, All Fresh Retail Price (cts/lb) | 259.4 | 252.4 | 253.8 | 254.3 | 255.4 | 254.4 | 251.7 | 251.9 | 255.1 | 252.6 |
| Beef, Choice | | | | | | | | | | |
| Retail price (cents/lb.) ² | 284.4 | 280.2 | 279.5 | 283.0 | 278.2 | 277.4 | 278.7 | 278.5 | 279.4 | 274.2 |
| Wholesale value (cents) ³ | 163.9 | 158.1 | 158.2 | 159.4 | 151.6 | 157.0 | 154.5 | 154.0 | 160.6 | 153.2 |
| Net farm value (cents) ⁴ | 138.4 | 134.9 | 137.2 | 137.8 | 136.4 | 137.1 | 134.8 | 128.6 | 126.1 | 124.6 |
| Farm-retail spread (cents) | 146.0 | 145.3 | 142.3 | 145.2 | 141.8 | 140.3 | 143.9 | 149.9 | 153.3 | 149.6 |
| Wholesale-retail (cents) ⁵ | 120.5 | 122.1 | 121.3 | 123.6 | 126.6 | 120.4 | 124.2 | 124.5 | 118.8 | 121.0 |
| Farm-wholesale (cents) ⁶ | 25.5 | 23.2 | 21.0 | 21.6 | 15.2 | 19.9 | 19.7 | 25.4 | 34.5 | 28.6 |
| Farm value-retail price (%) | 49 | 48 | 49 | 49 | 49 | 49 | 48 | 46 | 45 | 45 |
| Pork | | | | | | | | | | |
| Retail price (cents/lb.) ² | 194.8 | 220.9 | 231.5 | 234.7 | 225.0 | 226.7 | 228.9 | 231.0 | 230.9 | 231.2 |
| Wholesale value (cents) ³ | 98.8 | 117.2 | 117.1 | 117.4 | 91.0 | 99.8 | 98.0 | 94.9 | 96.4 | 93.2 |
| Net farm value (cents) ⁴ | 66.7 | 84.6 | 81.1 | 78.3 | 55.7 | 66.3 | 65.8 | 57.6 | 55.4 | 47.9 |
| Farm-retail spread (cents) | 128.1 | 136.3 | 150.4 | 156.4 | 169.3 | 160.4 | 163.1 | 173.4 | 175.5 | 183.3 |
| Wholesale-retail (cents) ⁵ | 96.0 | 103.7 | 114.4 | 117.3 | 134.0 | 126.9 | 130.9 | 136.1 | 134.5 | 138.0 |
| Farm-wholesale (cents) ⁶ | 32.1 | 32.6 | 36.0 | 39.1 | 35.3 | 33.5 | 32.2 | 37.3 | 41.0 | 45.3 |
| Farm value-retail price (%) | 34 | 38 | 35 | 33 | 25 | 29 | 29 | 25 | 24 | 21 |

^{1.} Retail costs are based on CPI-U of retail prices for domestically produced farm foods, published monthly by the Bureau of Labor Statistics (BLS). Farm value is the payment for the quantity of farm equivalent to the retail unit, less allowance for by-product. Farm values are based on prices at first point of sale, and may include marketing charges such as grading and packing for some commodities. The farm-retail spread, the difference between the retail price and farm value, represents charges for assembling, processing, transporting, distributing. 2. Weighted-average price of retail cuts from pork and Choice yield grade 3 beef. Prices from BLS. 3. Value of wholesale (boxed beef) and wholesale cuts (pork) equivalent to 1 lb. of retail cuts adjusted for transportation costs and by-product values. 4. Market value to producer for live animal equivalent to 1 lb. of retail cuts, minus value of by-products. 5. Charges for retailing and other marketing services such as wholesaling, and in-city transportation. 6. Charges for livestock marketing, processing, and transportation. *Information contact: Veronica Jones (202) 694-5387, Larry Duewer (202) 694-5172*

Table 9—Price Indexes of Food Marketing Costs_

| | Annual | | 1996 | | 199 | 7 | | 199 | 8 | |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1995 | 1996 | 1997 | IV | I | II | III | IV | I | II |
| | | | • | • | 1987= | 100* | | • | | _ |
| Laboróhourly earnings | | | | | | | | | | |
| and benefits | 455.2 | 459.7 | 474.3 | 465.3 | 469.3 | 473.0 | 474.6 | 480.2 | 484.9 | 488.3 |
| Processing | 472.5 | 474.7 | 486.0 | 480.2 | 481.4 | 484.9 | 487.1 | 490.5 | 493.8 | 497.7 |
| Wholesaling | 502.2 | 516.0 | 536.2 | 520.5 | 526.2 | 534.1 | 538.9 | 545.4 | 546.8 | 552.5 |
| Retailing | 417.1 | 419.9 | 435.2 | 426.1 | 432.1 | 434.1 | 433.6 | 441.1 | 448.7 | 450.6 |
| Packaging and containers | 415.7 | 399.8 | 390.3 | 393.1 | 392.1 | 388.7 | 387.6 | 392.9 | 398.5 | 396.7 |
| Paperboard boxes and containers | 392.1 | 363.8 | 341.9 | 348.9 | 347.2 | 335.4 | 334.7 | 350.3 | 365.4 | 368.7 |
| Metal cans | 504.9 | 498.3 | 491.0 | 481.8 | 489.4 | 496.1 | 490.8 | 487.9 | 494.1 | 484.7 |
| Paper bags and related products | 457.8 | 437.8 | 441.9 | 443.3 | 443.8 | 441.6 | 439.5 | 442.5 | 438.8 | 434.0 |
| Plastic films and bottles | 330.6 | 326.5 | 326.6 | 331.9 | 326.6 | 325.3 | 326.9 | 327.5 | 326.7 | 325.0 |
| Glass containers | 463.3 | 460.5 | 447.4 | 459.3 | 449.3 | 446.9 | 446.6 | 446.6 | 446.9 | 446.9 |
| Metal foil | 263.1 | 235.7 | 233.4 | 229.9 | 228.2 | 232.0 | 237.2 | 236.4 | 232.2 | 232.2 |
| Transportation services | 436.6 | 429.8 | 430.0 | 430.2 | 431.0 | 430.6 | 429.0 | 429.4 | 429.9 | 431.8 |
| Advertising | 539.1 | 580.1 | 609.4 | 582.8 | 608.1 | 608.7 | 609.3 | 611.6 | 623.2 | 624.2 |
| Fuel and power | 633.7 | 670.7 | 668.5 | 699.2 | 689.5 | 657.4 | 658.1 | 669.0 | 625.1 | 622.9 |
| Electric | 511.3 | 501.3 | 499.2 | 492.6 | 488.5 | 499.0 | 517.7 | 491.5 | 482.2 | 489.3 |
| Petroleum | 559.7 | 666.8 | 616.7 | 745.5 | 672.8 | 609.7 | 574.8 | 609.6 | 495.5 | 470.0 |
| Natural gas | 1,091.7 | 1,136.7 | 1,214.0 | 1,180.9 | 1,261.1 | 1,165.7 | 1,179.7 | 1,249.4 | 1,229.4 | 1,242.1 |
| Communications, water and sewage | 284.9 | 296.8 | 302.8 | 299.1 | 301.1 | 302.2 | 303.5 | 304.2 | 305.5 | 308.0 |
| Rent | 269.0 | 268.2 | 265.6 | 268.3 | 266.6 | 265.6 | 265.1 | 265.1 | 262.5 | 260.3 |
| Maintenance and repair | 486.1 | 499.6 | 514.9 | 506.2 | 509.6 | 513.0 | 517.3 | 519.7 | 524.1 | 527.1 |
| Business services | 491.0 | 501.7 | 512.3 | 506.6 | 509.5 | 511.7 | 513.9 | 514.1 | 518.4 | 521.2 |
| Supplies | 342.7 | 338.3 | 337.8 | 339.0 | 338.8 | 337.0 | 337.5 | 337.9 | 335.6 | 332.4 |
| Property taxes and insurance | 546.8 | 564.3 | 580.1 | 570.4 | 573.6 | 577.3 | 582.2 | 587.3 | 591.1 | 595.4 |
| Interest, short-term | 113.5 | 103.9 | 108.9 | 104.2 | 105.3 | 111.2 | 108.8 | 110.1 | 106.5 | 106.7 |
| Total marketing cost index | 444.8 | 452.1 | 459.9 | 455.6 | 458.6 | 458.4 | 459.1 | 463.4 | 465.3 | 466.9 |

Last two quarters preliminary. * Indexes measure changes in employee earnings and benefits and in prices of supplies used in processing, wholesaling, and retailing U.S. farm foods purchased for at-home consumption. *Information contact: Veronica Jones (202) 694-5387*

Livestock & Products

Table 10—U.S. Meat Supply & Use

| | | | | | | | Consun | <u> </u> | | Primary |
|----------------------|------------|-------------------|----------------|---------------------------|----------------|------------|------------------|---------------------|---------------------|----------|
| | Beg. | Produc- | | Total | | Ending | | Per | Conversion | marke |
| | stocks | tion ¹ | Imports | supply | Exports | stocks | Total | capita ² | factor ³ | price |
| 5 (| | | ٨ | 1illion lbs. ⁵ | | | | Lbs. | | \$/cwt |
| Beef 1995 | 548 | 25 222 | 2 102 | 27,873 | 1 001 | 519 | 25,533 | 67 | 0.695 | 66 |
| 1996 | 546 519 | 25,222 25,525 | 2,103 2,073 | 27,673 28,117 | 1,821 1,877 | 377 | 25,533 25,863 | 67 68 | 0.700 | 65 |
| 1997 | 377 | 25,325 | 2,073 | 28,210 | 2,136 | 465 | 25,603 | 67 | 0.700 | 66 |
| 1998 | 465 | 25,719 | 2,536 | 28,720 | 2,130 | 400 | 26,210 | 68 | 0.700 | 61.47 |
| 1999 | 400 | 24,031 | 2,760 | 27,191 | 2,110 | 350 | 24,706 | 63 | 0.700 | 69-75 |
| Pork | | | | | | | | | | |
| 1995 | 438 | 17,849 | 664 | 18,951 | 787 | 396 | 17,768 | 52 | 0.776 | 42 |
| 1996 | 396 | 17,117 | 618 | 18,131 | 970 | 366 | 16,795 | 49 | 0.776 | 53 |
| 1997 | 366 | 17,274 | 633 | 18,273 | 1,044 | 408 | 16,821 | 49 | 0.776 | 51 |
| 1998 | 408 | 18,772 | 660 | 19,840 | 1,245 | 475 | 18,120 | 52 | 0.776 | 33.87 |
| 1999 | 475 | 19,455 | 700 | 20,630 | 1,260 | 490 | 18,880 | 54 | 0.776 | 33-35 |
| Veal ⁶ | | | | | | | | | | |
| 1995 | 7 | 319 | 0 | 326 | 0 | 7 | 319 | 1 | 0.83 | 75 |
| 1996 | 7 | 378 | 0 | 385 | 0 | 7 | 378 | 1 | 0.83 | 59 |
| 1997 | 7 | 334 | 0 | 341 | 0 | 8 | 333 | 1 | 0.83 | 82 |
| 1998 | 8 | 267 | 0 | 275 | 0 | 6 | 269 | 1 | 0.83 | 83 |
| 1999 | 6 | 255 | 0 | 261 | 0 | 6 | 255 | 1 | 0.83 | 94 |
| Lamb and mutton | | | | | | | | | | |
| 1995 | 11 | 287 | 64 | 362 | 6 | 8 | 348 | 1 | 0.89 | 76 |
| 1996 | 8 | 268 | 73 | 349 | 6 | 9 | 334 | 1 | 0.89 | 85 |
| 1997 | 9 | 260 | 83 | 352 | 5 | 14 | 333 | 1 | 0.89 | 88 |
| 1998 | 14 | 242 | 96 | 352 | 7 | 11 | 334 | 1 | 0.89 | 76 |
| 1999 | 11 | 223 | 85 | 319 | 8 | 11 | 300 | 1 | 0.89 | 77 |
| Total red meat | | | | | | | | | | |
| 1995 | 1,004 | 43,677 | 2,831 | 47,512 | 2,614 | 930 | 43,968 | 122 | | |
| 1996 | 930 | 43,288 | 2,764 | 46,982 | 2,853 | 759 | 43,370 | 120 | | |
| 1997 | 759 | 43,358 | 3,059 | 47,176 | 3,185 | 895 | 43,096 | 118 | | - |
| 1998 | 895 | 45,000 | 3,292 | 49,187 | 3,362 | 892 | 44,933 | 122 | | - |
| 1999 | 892 | 43,964 | 3,545 | 48,401 | 3,403 | 857 | 44,141 | 119 | | ¢/lb |
| Broilers | | | | | | | | | | , |
| 1995 | 458 | 24,827 | 1 | 25,287 | 3,894 | 560 | 20,832 | 69 | 0.869 | 56 |
| 1996 | 560 | 26,124 | 4 | 26,688 | 4,420 | 641 | 21,626 | 71 | 0.869 | 61 |
| 1997 | 641 | 27,041 | 5 | 27,687 | 4,664 | 607 | 22,416 | 73 | 0.869 | 59 |
| 1998 | 607 | 27,522 | 5 | 28,133 | 4,683 | 600 | 22,850 | 73 | 0.869 | 62.50 |
| 1999 | 600 | 28,943 | 4 | 29,547 | 4,525 | 650 | 24,372 | 78 | 0.869 | 56-61 |
| Mature chickens | | | _ | | | _ | | _ | | |
| 1995 | 14 | 496 | 3 | 513 | 99 | 7 | 406 | 2 | 1.0 | |
| 1996 | 7 | 491 | 0 | 498 | 265 | 6 | 228 | 1 | 1.0 | |
| 1997 | 6 | 510 | 0 | 516 | 384 | 7 | 125 | 1 | 1.0 | - |
| 1998 1999 | 7 7 | 520 546 | 0 0 | 527 554 | 435 412 | 7 5 | 85 137 | 1 | 1.0 1.0 | |
| | , | 040 | O . | 004 | 712 | J | 107 | | 1.0 | |
| Turkeys | 254 | F 060 | 2 | F 226 | 240 | 271 | 4.706 | 10 | 1.0 | 66 |
| 1995 1996 | 254 271 | 5,069 | 2 | 5,326 | 348 | 271 328 | 4,706 4,906 | 18 | 1.0 | 66 |
| 1996 | 328 | 5,401 5,412 | 1 1 | 5,673 5,741 | 438 598 | 320 415 | 4,906 4,727 | 19 18 | 1.0 1.0 | 66 65 |
| 1998 | 415 | 5,222 | 1 | 5,638 | 421 | 350 | 4,727 | 18 | 1.0 | 61.70 |
| 1999 | 350 | 5,235 | 1 | 5,586 | 430 | 300 | 4,855 | 18 | 1.0 | 60-64 |
| Total poultry | 333 | 0,200 | • | 0,000 | .00 | 000 | .,000 | | | |
| 1995 | 727 | 30,393 | 6 | 31,125 | 4,342 | 839 | 25,944 | 88 | | |
| 1996 | 839 | 32,015 | 5 | 32,859 | 5,123 | 975 | 26,760 | 90 | | |
| 1997 | 975 | 32,964 | 6 | 33,944 | 5,646 | 1,029 | 27,269 | 91 | | |
| 1998 | 1,029 | 33,264 | 6 | 34,299 | 5,539 | 957 | 27,801 | 92 | | |
| 1999 | 957 | 34,724 | 5 | 35,686 | 5,367 | 955 | 29,363 | 96 | | |
| Red meat and poultry | | | | | | | | | | |
| 1995 | 1,731 | 74,070 | 2,837 | 78,637 | 6,956 | 1,769 | 69,912 | 210 | | |
| 1996 | 1,769 | 75,303 | 2,769 | 79,841 | 7,976 | 1,734 | 70,130 | 210 | | |
| 1997 | 1,734 | 76,322 | 3,065 | 81,120 | 8,831 | 1,924 | 70,364 | 209 | | |
| 1998 | 1,924 | 78,264 | 3,298 | 83,486 | 8,901 | 1,849 | 72,735 | 214 | | |
| 1999 | 1,849 | 78,688 | 3,550 | 84,087 | 8,770 | 1,812 | 73,504 | 215 | | |

⁻⁻⁼ Not available. Values for the last year are forecasts. 1. Total including farm production for red meat and federally inspected plus nonfederally inspected for poultry. 2. Retail-weight basis. 3. Red meat, carcass to retail conversion; poultry, ready-to-cook production to retail weight. 4. Beef: Medium #1, Nebraska Direct 1,100-1,300 lb.; pork: barrows and gilts, lowa, Southern Minnesota; veal: farm price of calves; lamb and mutton: choice slaughter lambs, San Angelo; broilers: wholesale 12-city average; turkeys: wholesale NY 8-16 lb. young hens. 5. Carcass weight for red meats and certified ready-to-cook for poultry. 6. Beginning in 1989, veal trade is no longer reported separately. *Information contact: LaVerne Williams (202) 694-5190*

Table 11—U.S. Egg Supply & Use_____

| | | | | | | | Consun | nption | Primary | |
|------|--------|------------|---------|---------|----------|----------|--------|---------|---------|--------|
| | Beg. | | | Total | | Hatching | Ending | | Per | market |
| | stocks | Production | Imports | supply | Exports | use | stocks | Total | capita | price* |
| | | | | Mil | lion doz | | | | No. | ¢/doz. |
| 1992 | 13.0 | 5,905.0 | 4.3 | 5,922.3 | 157.0 | 732.0 | 13.5 | 5,019.8 | 235.9 | 65.4 |
| 1993 | 13.5 | 6,005.8 | 4.7 | 6,023.9 | 158.9 | 769.6 | 10.7 | 5,084.6 | 236.4 | 72.5 |
| 1994 | 10.7 | 6,177.6 | 3.7 | 6,192.0 | 187.6 | 805.4 | 14.9 | 5,184.1 | 238.7 | 67.3 |
| 1995 | 14.9 | 6,215.6 | 4.1 | 6,234.6 | 208.9 | 847.2 | 11.2 | 5,167.3 | 235.6 | 72.9 |
| 1996 | 11.2 | 6,371.3 | 5.4 | 6,387.9 | 253.1 | 863.8 | 8.5 | 5,262.4 | 237.8 | 88.2 |
| 1997 | 8.5 | 6,459.8 | 6.9 | 6,475.2 | 227.8 | 894.8 | 7.4 | 5,345.2 | 239.4 | 81.2 |
| 1998 | 7.4 | 6,647.3 | 5.9 | 6,660.6 | 226.2 | 921.1 | 10.0 | 5,503.3 | 244.4 | 75.9 |
| 1999 | 10.0 | 6,790.0 | 4.0 | 6,804.0 | 243.0 | 970.0 | 10.0 | 5,581.0 | 245.7 | 72.5 |

Values for the last year are forecasts. Values for previous year are preliminary. * Cartoned grade A large eggs, New York. Information contact: LaVerne Williams (202) 694-5190

Table 12—U.S. Milk Supply & Use¹_____

| | | Commercial | | | Total | | Comm | ercial | | CCC net removals | | |
|------|------------|------------|---------|-----------|-----------------|---------|---------|--------|--------|--------------------|--------|--------------------|
| | | | Farm | | | commer- | CCC | | Disap- | | Skim | Total |
| | | Farm | Market- | Beg. | | cial | net re- | Ending | pear- | All milk | solids | solid |
| | Production | use | ings | stocks | Imports | supply | movals | stocks | ance | price ¹ | basis | basis ² |
| | | | | Billion I | lbs. (milkfat l | basis) | | | | \$/cwt | Billi | on Ibs. |
| 1991 | 147.7 | 2.0 | 145.7 | 5.1 | 2.6 | 153.4 | 10.4 | 4.5 | 138.6 | 12.24 | 3.9 | 6.5 |
| 1992 | 150.9 | 1.9 | 149.0 | 4.5 | 2.5 | 155.9 | 9.9 | 4.7 | 141.3 | 13.09 | 2.0 | 5.2 |
| 1993 | 150.6 | 1.8 | 148.8 | 4.7 | 2.8 | 156.2 | 6.7 | 4.6 | 145.0 | 12.80 | 3.9 | 5.0 |
| 1994 | 153.7 | 1.7 | 152.0 | 4.6 | 2.9 | 159.4 | 4.8 | 4.3 | 150.3 | 12.97 | 3.7 | 4.2 |
| 1995 | 155.4 | 1.6 | 153.9 | 4.3 | 2.9 | 161.1 | 2.1 | 4.1 | 154.9 | 12.74 | 4.4 | 3.5 |
| 1996 | 154.3 | 1.5 | 153.8 | 4.1 | 2.9 | 159.8 | 0.1 | 4.7 | 155.0 | 14.74 | 0.7 | 0.5 |
| 1997 | 156.6 | 1.4 | 155.2 | 4.7 | 2.7 | 162.6 | 1.1 | 4.9 | 156.6 | 13.34 | 3.7 | 2.7 |
| 1998 | 157.3 | 1.4 | 156.0 | 4.9 | 4.6 | 165.5 | 0.4 | 5.1 | 160.1 | 15.20 | 4.2 | 2.7 |
| 1999 | 160.0 | 1.3 | 158.7 | 5.1 | 3.3 | 167.0 | 0.8 | 4.9 | 161.3 | 14.00 | 3.5 | 2.5 |

Values for latest year are forecasts. Values for the preceding year are preliminary. 1. Delivered to plants and dealers; does not reflect deductions.

Table 13—Poultry & Eggs_____

| 3 00 — | | Annual | | 1997 | | | 199 |)8 | | |
|---|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|
| | 1995 | 1996 | 1997 | Aug | Mar | Apr | May | Jun | Jul | Aug |
| Broilers | | | | | | | | | | |
| Federally inspected slaughter | | | | | | | | | | |
| certified (mil. lb.) | 25,020.8 | 26,336.3 | 27,270.7 | 2,272.4 | 2,331.9 | 2,384.0 | 2,258.1 | 2,348.8 | 2,350.7 | 2,257.6 |
| Wholesale price, | | | | | | | | | | |
| 12-city (cents/lb.) | 56.2 | 61.2 | 58.8 | 63.2 | 58.1 | 58.8 | 60.1 | 64.3 | 68.5 | 72.1 |
| Price of grower feed (\$/ton) ¹ | 135.1 | 175.5 | 157.8 | 153.0 | 141.0 | 138.0 | 137.0 | 134.0 | 131.0 | 114.0 |
| Broiler-feed price ratio ² | 5.1 | 4.4 | 4.7 | 5.2 | 5.0 | 5.3 | 5.4 | 6.0 | 6.6 | 8.2 |
| Stocks beginning of period (mil. lb.) | 458.4 | 560.1 | 641.3 | 655.8 | 629.5 | 665.8 | 710.3 | 654.7 | 583.5 | 553.2 |
| Broiler-type chicks hatched (mil.) | 7,932.4 | 8,076.9 | 8,306.5 | 708.6 | 732.0 | 709.4 | 740.0 | 719.0 | 723.4 | 713.2 |
| Turkeys | | | | | | | | | | |
| Federally inspected slaughter | | | | | | | | | | |
| certified (mil. lb.) | 5,128.8 | 5,465.6 | 5,477.9 | 456.3 | 445.5 | 442.3 | 421.2 | 457.9 | 459.3 | 414.3 |
| Wholesale price, Eastern U.S. | | | | | | | | | | |
| 8-16 lb. young hens (cents/lb.) | 66.4 | 66.5 | 64.9 | 68.1 | 55.5 | 58.1 | 58.7 | 60.6 | 61.4 | 63.2 |
| Price of turkey grower feed (\$/ton) ¹ | 130.1 | 166.1 | 142.5 | 139.0 | 128.0 | 125.0 | 122.0 | 118.0 | 115.0 | 102.0 |
| Turkey-feed price ratio ² | 6.3 | 5.3 | 5.6 | 5.9 | 5.4 | 5.7 | 5.8 | 6.1 | 6.5 | 7.6 |
| Stocks beginning of period (mil. lb.) | 254.4 | 271.3 | 328.0 | 714.3 | 512.7 | 527.0 | 580.2 | 612.9 | 656.5 | 703.0 |
| Poults placed in U.S. (mil.) | 321.7 | 327.2 | 321.5 | 26.3 | 26.4 | 25.7 | 25.7 | 27.0 | 26.2 | 24.5 |
| Eggs | | | | | | | | | | |
| Farm production (mil.) | 74,587 | 76,456 | 77,515 | 6,483 | 6,829 | 6,571 | 6,630 | 6,423 | 6,695 | 6,674 |
| Average number of layers (mil.) | 294 | 298 | 303 | 300 | 313 | 311 | 308 | 308 | 308 | 308 |
| Rate of lay (eggs per layer | | | | | | | | | | |
| on farms) | 253.8 | 256.2 | 255.2 | 21.6 | 21.8 | 21.1 | 21.5 | 20.9 | 21.7 | 21.6 |
| Cartoned price, New York, grade A | | | | | | | | | | |
| large (cents/doz.)3 | 72.9 | 88.2 | 81.2 | 74.7 | 81.4 | 71.6 | 60.4 | 67.3 | 73.3 | 77.7 |
| Price of laying feed (\$/ton) ¹ | 149.7 | 184.4 | 159.8 | 162.0 | 149.0 | 149.0 | 161.0 | 150.0 | 148.0 | 120.0 |
| Egg-feed price ratio ² | 8.6 | 8.5 | 8.8 | 7.8 | 9.4 | 8.5 | 6.8 | 8.0 | 7.9 | 10.8 |
| Stocks, first of month | | | | | _ | _ | _ | | _ | |
| Frozen (mil. doz.) | 14.8 | 10.5 | 7.7 | 6.7 | 9.3 | 7.9 | 7.0 | 9.8 | 7.7 | 8.9 |
| Replacement chicks hatched (mil.) | 397.0 | 407.0 | 422.0 | 33.1 | 40.0 | 39.9 | 39.6 | 39.2 | 36.6 | 33.5 |

^{1.} Calculated from price ratios that were revised February 1995. 2. Pounds of feed equal in value to 1 dozen eggs or 1 lb. of broiler or turkey liveweight (revised February 1995). 3. Price of cartoned eggs to volume buyers for delivery to retailers. *Information contact: LaVerne Williams (202) 694-5190*

^{2.} Arbitrarily weighted average of milkfat basis (40 percent) and solids basis (60 percent). Information contact: Jim Miller (202) 694-5184

Table 14—Dairy

| | | Annual | | 1997 | | | 199 | 8 | | |
|---|---|------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 1995 | 1996 | 1997 | Aug | Mar | Apr | May | Jun | Jul | Aug |
| MilkBasic Formula Price (\$/cwt) ¹ Wholesale prices | 11.83 | 13.39 | 12.05 | 12.07 | 12.81 | 12.01 | 10.88 | 13.10 | 14.77 | 14.99 |
| Butter, Central States (cents/lb.) ² Am. cheese, Wis. | 81.9 | 108.2 | 116.2 | 110.5 | 134.1 | 136.4 | 153.2 | 186.7 | 203.1 | 216.6 |
| assembly pt. (cents/lb.) | 132.8 | 149.1 | 132.4 | 137.6 | 138.8 | 129.7 | 123.0 | 151.3 | 162.6 | 166.9 |
| Nonfat dry milk (cents/lb.) ³ | 108.6 | 122.2 | 110.0 | 107.2 | 104.7 | 104.3 | 103.5 | 102.9 | 103.0 | 104.6 |
| USDA net removals | | | | | | | | | | |
| Total (mil. lb.) ⁴ | 2,105.7 | 86.9 | 1,090.0 | 101.0 | 40.3 | 25.9 | 24.0 | 12.3 | 19.0 | 13.8 |
| Butter (mil. lb.) | 78.5 | 0.1 | 38.4 | 3.6 | 0.7 | 0.4 | 0.3 | 0.0 | 0.0 | 0.0 |
| Am. cheese (mil. lb.) | 6.1 | 4.6 | 11.3 | 0.6 | 0.6 | 0.7 | 0.6 | 0.6 | 0.7 | 8.0 |
| Nonfat dry milk (Mil. lb.) | 343.8 | 57.2 | 296.7 | 35.1 | 24.7 | 27.8 | 39.1 | 27.7 | 54.8 | 28.2 |
| Milk | | | | | | | | | | |
| Milk prod. 20 states (mil. lb.) | 131,780 | 131,343 | 133,861 | 11,213 | 11,722 | 11,591 | 12,067 | 11,446 | 11,345 | 11,160 |
| Milk per cow (lb.) | 16,762 | 16,800 | 17,252 | 1,446 | 1,517 | 1,499 | 1,557 | 1,476 | 1,464 | 1,439 |
| Number of milk cows (1,000) U.S. milk production (mil. lb.) ⁵ | 7,862 155,424 | 7,818 154,259 | 7,759 156,602 | 7,757 13,058 | 7,725 13,726 | 7,735 13,520 | 7,750 14,070 | 7,753 13,341 | 7,750 13,223 | 7,753 13,002 |
| Stocks, beginning ⁴ | 155,424 | 154,259 | 130,002 | 13,036 | 13,720 | 13,320 | 14,070 | 13,341 | 13,223 | 13,002 |
| Total (mil. lb.) | 5,760 | 4,168 | 4,714 | 7,385 | 5,656 | 6,009 | 6,488 | 6,689 | 6,664 | 6,591 |
| Commercial (mil. lb.) | 4,263 | 4,100 | 4,714 | 7,365 7,354 | 5,640 | 5,990 | 6,460 | 6,663 | 6,637 | 6,554 |
| Government (mil. lb.) | 1,497 | 69 | 10 | 31 | 16 | 20 | 28 | 26 | 27 | 38 |
| Imports, total (mil. lb.) ⁴ | 2,936 | 2,911 | 2,698 | 228 | 310 | 279 | 297 | 369 | 533 | |
| Commercial disappearance | 154,843 | 154,985 | 156,597 | 13,604 | 13,532 | 13,192 | 14,026 | 13,613 | 13,705 | |
| (mil. lb.) ⁴ | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , , , , , , | , | -, | -, | -, - | , | -, | -, | |
| Butter | | | | | | | | | | |
| Production (mil. lb.) | 1,264.5 | 1,174.5 | 1,151.2 | 68.8 | 100.8 | 103.0 | 92.9 | 72.6 | 67.1 | 66.8 |
| Stocks, beginning (mil. lb.) | 79.4 | 18.6 | 13.7 | 85.6 | 44.2 | 55.9 | 67.4 | 72.7 | 60.5 | 51.0 |
| Commercial disappearance (mil. lb.) | 1,186.3 | 1,179.8 | 1,108.7 | 81.3 | 89.7 | 92.4 | 88.0 | 89.2 | 86.8 | |
| American cheese | | | | | | | | | | |
| Production (mil. lb.) | 3,131.4 | 3,280.8 | 3,285.2 | 260.0 | 285.2 | 289.7 | 293.1 | 287.8 | 277.3 | 262.3 |
| Stocks, beginning (mil. lb.) | 310.4 | 307.0 | 379.9 | 470.6 272.1 | 411.2 275.8 | 421.5 272.3 | 442.2 295.1 | 443.2 282.9 | 450.1 269.0 | 460.9 |
| Commercial disappearance (mil. lb.) | 3,148.5 | 3,230.1 | 3,268.6 | 272.1 | 2/5.0 | 212.3 | 295.1 | 202.9 | 209.0 | |
| Other cheese Production (mil. lb.) | 3,785.5 | 3,936.7 | 4,043.8 | 336.5 | 360.0 | 351.6 | 360.0 | 353.3 | 335.3 | 334.8 |
| Stocks, beginning (mil. lb.) | 126.8 | 105.3 | 107.3 | 135.9 | 98.8 | 98.2 | 103.1 | 108.8 | 133.6 | 134.4 |
| Commercial disappearance (mil. lb.) | 4,125.6 | 4,243.0 | 4,365.5 | 373.5 | 383.9 | 368.1 | 377.9 | 352.2 | 363.0 | |
| Nonfat dry milk | | | | | | | | | | |
| Production (mil. lb.) | 1,233.0 | 1,061.8 | 1,271.6 | 90.2 | 107.3 | 120.4 | 121.3 | 104.2 | 90.2 | 79.0 |
| Stocks, beginning (mil. lb.) | 131.2 | 85.0 | 71.4 | 202.3 | 131.2 | 128.9 | 161.2 | 186.8 | 198.2 | 203.3 |
| Commercial disappearance (mil. lb.) | 923.7 | 1,009.0 | 895.4 | 59.8 | 96.7 | 73.4 | 64.2 | 82.3 | 53.6 | |
| Frozen dessert | | | | | | | | | | |
| Production (mil. gal.) ⁶ | 1,229.6 | 1,240.9 | 1,281.4 | 119.2 | 109.4 | 115.4 | 118.9 | 132.2 | 135.0 | 122.0 |
| | | Annual | | | 199 | 7 | | | 1998 | |
| | 1995 | 1996 | 1997 | I | II | III | IV | | II | III |
| Milk production (mil. lb.) | 155,424 | 154,259 | 156,602 | 38,961 | 40,683 | 38,805 | 38,153 | 39,209 | 40,931 | 38,700 |
| Milk per cow (lb.) | 16,433 | 16,479 | 16,915 | 4,192 | 4,384 | 4,195 | 4,144 | 4,268 | 4,447 | 4,205 |
| No. of milk cows (1,000) | 9,458 | 9,361 | 9,258 | 9,295 | 9,280 | 9,251 | 9,206 | 9,186 | 9,205 | 9,203 |
| Milk-feed price ratio | 1.63 | 1.60 | 1.54 | 1.54 | 1.45 | 1.47 | 1.71 | 1.73 | 1.71 | 2.03 |
| Returns over concentrate costs (\$/cwt milk) | 9.50 | 10.98 | 9.80 | 9.85 | 9.05 | 9.05 | 11.00 | 11.10 | 10.40 | 12.10 |

^{-- =} Not available. Quarterly values for latest year are preliminary. 1. Manufacturing grade milk. 2. Grade AA Chicago before June 1998. 3. Prices paid f.o.b. Central States production area. 4. Milk equivalent, fat basis. 5. Monthly data ERS estimates. 6. Hard ice cream, ice milk, and hard sherbet. Information contact: LaVerne Williams (202) 694-5190

Table 15—Wool_____

Information contact: Mae Dean Johnson (202) 694-5299

| | | Annual | | 1996 | 1996 1997 | | | 1998 | | | |
|--|---------|---------|---------|--------|-----------|--------|--------|--------|--------|--------|--|
| | 1995 | 1996 | 1997 | IV | I | II | III | IV | I | II | |
| U.S. wool price (¢/lb.) ¹ | 258 | 193 | 238 | 191 | 196 | 244 | 255 | 258 | 209 | 178 | |
| Imported wool price (¢/lb.) ² | 249 | 196 | 206 | 191 | 196 | 210 | 213 | 204 | 192 | 176 | |
| U.S. mill consumption, scoured | | | | | | | | | | | |
| Apparel wool (1,000 lb.) | 129,299 | 129,525 | 130,386 | 23,092 | 33,124 | 33,830 | 30,638 | 32,794 | 29,208 | 29,591 | |
| Carpet wool (1,000 lb.) | 12,667 | 12,311 | 13,576 | 3,111 | 3,437 | 3,324 | 3,395 | 3,420 | 3,549 | 3,729 | |

^{1.} Wool price delivered at U.S. mills, clean basis, Graded Territory 64's (20.60-22.04 microns) staple 2-3/4" and up. 2. Wool price, Charleston, SC warehouse, clean basis, Australian 60/62's, type 64A (24 micron). Duty since 1982 has been 10 cents.

Table 16—Meat Animals___

| Carelino in food of clates, 1905 1905 1905 1905 1807 | lable 10—Weat Allillais | | | | | | | | | | |
|--|--|--------|--------|--------|--------------|--------|--------|--------|----------|--------|--------|
| Commercial Commercia | - | | Annual | | 1997 Sop! | Anr | Mov | | | Λιια | Son |
| Marchan cine (1,000 head) | <u>-</u> | 1995 | 1996 | 1997 | Зер | Арі | iviay | Juli | Jui | Aug | Зер |
| Number on freed (1,000 heady) 0,034 0,867 0,895 0,895 1,780 1,314 1,677 0,720 1,725 1,72 | • | | | | | | | | | | |
| Planed on Head (1,000 head) | | 8 031 | 8 667 | 8 943 | 7 850 | 8 607 | 8 295 | 8 289 | 7 825 | 8 985 | 7 750 |
| Marketings (1 0,000 head) | ` ', ' | | | | | | | | | | |
| Chamber princing (1,000 heat) 6,74 6,75 70 70 70 70 70 70 70 | , | | | | | | | | | | |
| Marker M | <u> </u> | | | | | | | | | | |
| Siloughter Father Campaign | ······································· | • • • | 002 | | | ٠. | | ٠. | • • • | 0_ | 0. |
| Property Property | , | | | | | | | | | | |
| No. Display Display | - | | | | | | | | | | |
| Position pullily covex, Sloux Falle 75,000 70,000 | Texas | 66.69 | 65.06 | 65.99 | 66.04 | 64.52 | 64.52 | 63.85 | 60.28 | 58.75 | 57.93 |
| Modum on 1, Oklahoma Cly | Neb. direct | 66.26 | 65.05 | 66.32 | 66.22 | 64.68 | 64.40 | 63.26 | 59.97 | 58.65 | 58.28 |
| Medium no. 1, Oklahoma City 600-650 h | Boning utility cows, Sioux Falls | 35.58 | 30.33 | 34.27 | 32.41 | 38.44 | 39.30 | 39.61 | 36.11 | 36.06 | 33.47 |
| Figure F | Feeder steers | | | | | | | | | | |
| Profice Profession Profes | Medium no. 1, Oklahoma City | | | | | | | | | | |
| Barrows and gilts, 230-250 lb. Iowa, S. Minn. | 600-650 lb. | 70.49 | 61.31 | 81.34 | 85.02 | 86.20 | 85.86 | 77.40 | 72.96 | 72.24 | 70.37 |
| Barnows and gitts, 230-250 lb. Jowas, S.Mines 41,99 53,42 43,04 41,00 41,47 41,40 41,40 34,62 30,18 53,005 53,00 | 750-800 lb. | 68.03 | 61.08 | 76.19 | 78.57 | 74.96 | 73.95 | 73.10 | 69.13 | 68.75 | 68.75 |
| Mathematics | Slaughter hogs | | | | | | | | | | |
| Semarkers Alien | Barrows and gilts, 230-250 lb. | | | | | | | | | | |
| Some Sharkets 32.62 44.61 44.51 44.51 44.51 30.37 30.54 26.77 23.39 19.83 | Iowa, S. Minn. | 42.35 | 53.39 | 51.36 | 49.99 | 34.44 | | 41.57 | 35.91 | 34.86 | 29.12 |
| Slauphfor sheep and lambs Lambs, Choice, San Angelo 75.86 85.27 87.95 85.45 71.50 73.00 91.21 82.21 82.05 63.50 75.0 | 5 markets | 41.99 | 53.42 | 51.30 | 49.42 | 35.12 | 41.74 | 41.40 | 41.40 | 34.62 | 30.18 |
| Lambs, Choice, San Angelo | Sows, 5 markets | 32.62 | 44.61 | 44.51 | 41.48 | 28.19 | 30.37 | 30.54 | 26.77 | 23.39 | 19.83 |
| Peeder lamp | Slaughter sheep and lambs | | | | | | | | | | |
| Peeder lambs | Lambs, Choice, San Angelo | 75.86 | 85.27 | 87.95 | 85.45 | 71.50 | 73.00 | 91.21 | 82.21 | 82.05 | 69.50 |
| Choice, San Angelo San S | Ewes, Good, San Angelo | 33.91 | 39.05 | 49.33 | 44.20 | 43.38 | 35.13 | 37.88 | 36.21 | 35.55 | 36.00 |
| Note Boxed December Decem | Feeder lambs | | | | | | | | | | |
| Board beef cut-out value Choice, 700-800 lb. 106.09 102.01 102.75 102.58 97.61 101.49 99.58 98.46 102.01 102.75 34.62 96.23 92.24 94.71 90.41 90.65 87.41 Canner and cutier cow beef 68.67 58.18 64.50 63.89 65.60 66.58 63.05 62.83 62.13 56.50 Pork cutiout 1/4 "trim,14-19 lb. 126.99 138.73 128.75 112.07 102.51 130.64 113.13 106.51 105.90 97.23 Pork bolies, 121-4 lb. 43.04 69.96 73.91 72.52 54.65 57.67 63.10 68.46 72.99 57.49 Hams, bone-in, trimmed, 20-27 lb. 25.24 253.72 25.43 255.38 254.45 251.66 251.93 255.07 252.65 Commercial slaughter (1,000 head)** Cattle 35.639 36.583 36.351 2.968 2.928 2.958 3.109 3.039 3.040 3.039 Cattle 35.639 36.583 36.351 2.968 2.928 2.958 3.109 3.039 3.040 3.039 Cattle 35.639 36.583 36.351 3.252 444 457 448 489 483 489 483 489 Bull and stags 6.281 7.274 6.563 522 444 457 448 489 443 425 Bull and stags 6.281 7.278 48.253 7.298 7.299 7.290 7.301 7.902 7.822 Barows and glits 96.328 92.394 91.569 8.018 8.239 7.572 7.730 8.269 8.168 7.298 Barows and glits 96.328 92.394 91.569 8.018 8.329 7.572 7.730 8.269 8.168 7.298 Barows and glits 96.328 92.394 91.569 8.018 8.329 7.572 7.730 8.269 8.168 7.298 Barows and glits 96.328 92.394 91.569 91.599 7.590 | Choice, San Angelo | 81.08 | 94.88 | 104.43 | 98.10 | 76.00 | 76.56 | 88.00 | 76.43 | 78.80 | 74.75 |
| Choice, 700-800 lb. 106.09 102.01 102.75 102.58 97.61 101.49 99.58 98.46 102.16 96.66 Select, 700-800 lb. 98.45 98.45 96.15 96.23 92.24 94.71 90.41 90.65 87.41 Canner and cutter cow beef 68.67 58.18 64.50 63.89 65.60 66.68 63.50 62.83 62.13 56.50 Pork cutout | Wholesale meat prices, Midwest | | | | | | | | | | |
| Select, 700-900 lb. | Boxed beef cut-out value | | | | | | | | | | |
| Canner and cutter cow beef 68.67 58.18 64.50 63.89 65.60 65.63 63.50 62.83 62.73 56.70 Pork cutout | Choice, 700-800 lb. | 106.09 | 102.01 | 102.75 | 102.58 | 97.61 | 101.49 | 99.58 | 98.46 | 102.16 | 96.66 |
| Pork cutout - - - - - - 54,32 63,94 62,45 57,62 57,25 50,72 Pork bellies, 12-14 lb. 43,04 69,96 73,91 72,52 54,65 57,87 61,00 66,66 72,99 57,49 Hams, bone-in, trimmed, 20-27 lb. - - - - 42,82 46,62 50,80 - - - 57,87 All fresh beef retail price 25,42 252,44 253,72 254,34 255,88 25,45 251,66 251,93 255,07 252,65 Commercial slaughter (1,000 head)² 2 25,44 25,28 2,958 3,199 3,039 3,040 - Steers 18,274 17,819 17,554 1,433 1,422 1,486 1,599 1,569 1,564 - Steers 18,274 17,519 17,554 1,433 1,422 1,486 1,599 1,569 1,569 1,569 1,569 1,430 1,569 | Select, 700-800 lb. | 98.45 | 95.34 | 96.15 | 94.62 | 96.23 | 92.24 | 94.71 | 90.41 | 90.65 | 87.41 |
| Pork loins, bone-in, 1/4" trim, 14-19 lb. 126,99 138.73 128.75 112.07 102.51 130.64 113.13 106.51 105.90 97.32 Pork bellies, 12-14 lb. 43.04 69.96 73.91 72.52 54.65 57.87 63.10 68.46 72.99 77.95 All fresh beef retail price 259.42 252.44 253.72 254.34 255.80 254.45 251.66 251.93 255.07 252.65 Commercial slaughter (1,000 head)² 2 252.44 17.819 17.554 1.433 1.422 1.466 1.599 1.569 1.554 | Canner and cutter cow beef | 68.67 | 58.18 | 64.50 | 63.89 | 65.60 | 66.58 | 63.50 | 62.83 | 62.13 | 56.50 |
| Port bellies, 12-14 lb. 43.04 69.96 73.91 72.52 54.65 57.87 63.10 68.46 72.99 57.49 Hams, bone-in, trimmed, 20-27 lb. 25.44 253.42 255.44 255.38 254.45 50.60 251.93 255.07 252.64 All fresh beef retail price 259.42 252.44 253.72 255.38 255.38 254.65 251.60 255.07 255.07 252.67 Commercial slaughter (1,000 head)² 35,639 36,681 36,681 2,968 2,998 3,109 3,039 30,04 - Steers 18,274 17,819 17,554 1,433 1,426 1,486 1,599 1,559 1,554 - Heifers 10,399 10,756 11,533 952 970 962 967 929 950 - Cows 6,281 7,774 6,563 522 484 457 488 489 483 1-2 Cows 1,243 1,758 1,574 <td>Pork cutout</td> <td></td> <td></td> <td></td> <td></td> <td>54.32</td> <td>63.94</td> <td>62.45</td> <td>57.62</td> <td>57.25</td> <td>50.72</td> | Pork cutout | | | | | 54.32 | 63.94 | 62.45 | 57.62 | 57.25 | 50.72 |
| Hams, bone-in, trimmed, 20-27 lb. Control Control | Pork loins, bone-in, 1/4 " trim,14-19 lb. | 126.99 | 138.73 | 128.75 | 112.07 | 102.51 | 130.64 | 113.13 | 106.51 | 105.90 | 97.23 |
| No control No | | 43.04 | 69.96 | 73.91 | 72.52 | 54.65 | 57.87 | 63.10 | 68.46 | 72.99 | 57.49 |
| Commercial slaughter (1,000 head) | Hams, bone-in, trimmed, 20-27 lb. | | | | | 42.82 | 46.62 | 50.80 | | | |
| Cattle 35,639 36,589 36,581 36,581 2,968 2,928 2,958 3,109 3,039 3,040 Steers 18,274 17,819 17,554 1,433 1,422 1,486 1,569 1,569 1,554 Helfers 10,399 10,756 11,538 952 484 457 488 489 483 Cows 6,281 7,274 6,563 522 484 457 488 489 483 Calves 1,430 1,768 1,574 136 109 102 116 133 125 Sheep and lambs 4,560 4,184 3,911 334 384 281 294 281 275 Hogs 96,326 92,394 91,566 8.018 8,329 7,572 7,730 8,269 8,168 Barrows and gilts 25,117 25,421 25,384 2,126 2, | All fresh beef retail price | 259.42 | 252.44 | 253.72 | 254.34 | 255.38 | 254.45 | 251.66 | 251.93 | 255.07 | 252.65 |
| Steers 18,274 17,819 17,554 1,433 1,422 1,486 1,599 1,569 1,554 | Commercial slaughter (1,000 head) ² | | | | | | | | | | |
| Heifers 10,399 10,756 11,538 952 970 962 967 929 950 950 950 950 960 | Cattle | 35,639 | 36,583 | 36,351 | 2,968 | 2,928 | 2,958 | 3,109 | 3,039 | 3,040 | |
| Cows 6,281 7,274 6,563 522 484 457 488 489 483 | Steers | 18,274 | 17,819 | 17,554 | 1,433 | 1,422 | 1,486 | 1,599 | 1,569 | 1,554 | |
| Bull and stags 686 728 696 61 51 53 55 52 53 | Heifers | 10,399 | 10,756 | 11,538 | 952 | 970 | 962 | 967 | 929 | 950 | |
| Calves 1,430 1,768 1,574 136 109 102 116 133 125 Sheep and lambs 4,560 4,184 3,911 334 384 281 294 281 275 Hogs 96,326 92,394 91,566 8,018 8,329 7,572 7,730 8,269 8,168 Barrows and gilts 91,683 88,224 88,253 7,702 7,998 7,269 7,391 7,902 7,822 Commercial production (mil. lb.) 25,117 25,421 25,384 2,126 2,090 2,124 2,249 2,213 2,213 25,117 25,421 25,384 2,126 2,090 2,124 2,249 2,213 2,213 <td>Cows</td> <td>6,281</td> <td>7,274</td> <td>6,563</td> <td>522</td> <td>484</td> <td>457</td> <td>488</td> <td>489</td> <td>483</td> <td></td> | Cows | 6,281 | 7,274 | 6,563 | 522 | 484 | 457 | 488 | 489 | 483 | |
| Sheep and lambs 4,560 4,184 3,911 334 384 281 294 281 275 | Bull and stags | 686 | 728 | 696 | 61 | 51 | 53 | 55 | 52 | 53 | |
| Hogs 96,326 92,394 91,566 8,018 8,329 7,572 7,730 8,269 8,168 | Calves | | 1,768 | | | 109 | | 116 | | | |
| Barrows and gilts 91,683 88,224 88,253 7,702 7,998 7,269 7,391 7,902 7,822 | Sheep and lambs | | | | | | | | | | |
| Commercial production (mil. lb.) Beef | - | | | | | | | | | | |
| Seef 25,117 25,421 25,384 2,126 2,090 2,124 2,249 2,213 2, | Barrows and gilts | 91,683 | 88,224 | 88,253 | 7,702 | 7,998 | 7,269 | 7,391 | 7,902 | 7,822 | |
| Veal Lamb and mutton 307 368 323 28 20 19 20 21 21 | Commercial production (mil. lb.) | | | | | | | | | | |
| Lamb and mutton Pork 284 17,810 17,084 17,084 257 21 3,664 1,566 3,582 1,444 1,529 1,5 | | | | | | | | 2,249 | | | |
| Pork 17,810 17,084 17,245 3,664 1,566 3,582 1,444 1,529 1,529 Annual 1997 1 1997 III III IV I III III IV III III IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIIIII IIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | | | | | | | | | | | |
| Hogs and pigs (U.S.)3 Hogs and pigs (U.S.)3 Hogs and pigs (U.S.)4 Hogs and pigs (U.S.)5 Hogs and h | | | | | | | | | | | |
| Hogs and pigs (U.S.) ³ Inventory (1,000 head) ¹ 59,990 58,264 56,141 56,141 55,838 58,263 61,163 60,915 60,070 61,600 Breeding (1,000 head) ¹ 7,060 6,839 6,667 6,667 6,842 6,960 6,944 6,986 6,986 7,018 Market (1,000 head) ¹ 52,930 51,425 49,474 49,474 48,996 51,303 54,219 53,929 53,084 54,582 Farrowings (1,000 head) 11,847 11,187 11,440 2,702 2,944 2,959 2,929 2,898 3,055 3,034 Pig crop (1,000 head) 98,516 94,956 98,972 23,264 25,471 25,796 25,315 25,164 26,714 Cattle on Feed, 7 states (1,000 head) ⁴ Steers and Steer Calves 5,218 5,588 5,410 5,410 5,410 5,417 4,615 5,147 5,803 5,245 4,609 Heifers and Heifer Calves 2,785 3,005 3,455 3,455 3,431 3,026 3,383 3,615 3,325 3,191 Cows and Bulls 30 74 78 78 56 38 28 37 37 37 26 | Pork | 17,810 | 17,084 | 17,245 | 3,664 | 1,566 | 3,582 | 1,444 | 1,529 | 1,529 | |
| Hogs and pigs (U.S.) ³ Inventory (1,000 head) ¹ 59,990 58,264 56,141 56,141 55,838 58,263 61,163 60,915 60,070 61,600 Breeding (1,000 head) ¹ 7,060 6,839 6,667 6,667 6,842 6,960 6,944 6,986 6,986 7,018 Market (1,000 head) ¹ 52,930 51,425 49,474 49,474 48,996 51,303 54,219 53,929 53,084 54,582 Farrowings (1,000 head) 11,847 11,187 11,440 2,702 2,944 2,959 2,929 2,898 3,055 3,034 Pig crop (1,000 head) 98,516 94,956 98,972 23,264 25,471 25,796 25,315 25,164 26,714 Cattle on Feed, 7 states (1,000 head) Steers and Steer Calves 5,218 5,588 5,410 5,410 5,417 4,615 5,147 5,803 5,245 4,609 Heifers and Heifer Calves 2,785 3,005 3,455 3,455 3,431 3,026 3,383 3,615 3,325 3,191 Cows and Bulls 30 74 78 78 78 56 38 28 37 37 37 26 | <u>-</u> | | | | | | | 13.7.1 | | | |
| Inventory (1,000 head) ¹ 59,990 58,264 56,141 56,141 55,838 58,263 61,163 60,915 60,070 61,600 Breeding (1,000 head) ¹ 7,060 6,839 6,667 6,667 6,842 6,960 6,944 6,986 6,986 7,018 Market (1,000 head) ¹ 52,930 51,425 49,474 49,474 48,996 51,303 54,219 53,929 53,084 54,582 Farrowings (1,000 head) 11,847 11,187 11,440 2,702 2,944 2,959 2,929 2,898 3,055 3,034 Pig crop (1,000 head) 98,516 94,956 98,972 23,264 25,471 25,796 25,315 25,164 26,714 Cattle on Feed, 7 states (1,000 head) ⁴ Steers and Steer Calves 5,218 5,588 5,410 5,410 5,410 5,417 4,615 5,147 5,803 5,245 4,609 Heifers and Heifer Calves 2,785 3,005 3,455 3,455 3,431 3,026 3,383 3,615 3,325 3,191 Cows and Bulls 30 74 78 78 78 56 38 28 37 37 37 26 | <u>-</u> | 1995 | 1996 | 1997 | - 1 | ll | III | IV | <u> </u> | II | |
| Breeding (1,000 head) ¹ 7,060 6,839 6,667 6,667 6,842 6,960 6,944 6,986 6,986 7,018 Market (1,000 head) ¹ 52,930 51,425 49,474 49,474 48,996 51,303 54,219 53,929 53,084 54,582 Farrowings (1,000 head) 11,847 11,187 11,440 2,702 2,944 2,959 2,929 2,898 3,055 3,034 Pig crop (1,000 head) 98,516 94,956 98,972 23,264 25,471 25,796 25,315 25,164 26,714 Cattle on Feed, 7 states (1,000 head) ⁴ Steers and Steer Calves 5,218 5,588 5,410 5,410 5,410 5,417 4,615 5,147 5,803 5,245 4,609 Heifers and Heifer Calves 2,785 3,005 3,455 3,455 3,431 3,026 3,383 3,615 3,325 3,191 Cows and Bulls 30 74 78 78 78 56 38 28 37 37 37 26 | Hogs and pigs (U.S.) ³ | | | | | | | | | | |
| Market (1,000 head) ¹ 52,930 51,425 49,474 49,474 48,996 51,303 54,219 53,929 53,084 54,582 Farrowings (1,000 head) 11,847 11,187 11,440 2,702 2,944 2,959 2,929 2,898 3,055 3,034 Pig crop (1,000 head) 98,516 94,956 98,972 23,264 25,471 25,796 25,315 25,164 26,714 Cattle on Feed, 7 states (1,000 head) ⁴ 5,218 5,588 5,410 5,410 5,417 4,615 5,147 5,803 5,245 4,609 Heifers and Heifer Calves 2,785 3,005 3,455 3,455 3,431 3,026 3,383 3,615 3,325 3,191 Cows and Bulls 30 74 78 78 56 38 28 37 37 26 | Inventory (1,000 head) ¹ | 59,990 | 58,264 | 56,141 | 56,141 | 55,838 | 58,263 | 61,163 | 60,915 | 60,070 | 61,600 |
| Farrowings (1,000 head) 11,847 11,187 11,440 2,702 2,944 2,959 2,929 2,898 3,055 3,034 Pig crop (1,000 head) 98,516 94,956 98,972 23,264 25,471 25,796 25,315 25,164 26,714 Cattle on Feed, 7 states (1,000 head) ⁴ Steers and Steer Calves 5,218 5,588 5,410 5,410 5,417 4,615 5,147 5,803 5,245 4,609 Heifers and Heifer Calves 2,785 3,005 3,455 3,455 3,431 3,026 3,383 3,615 3,325 3,191 Cows and Bulls 30 74 78 78 78 56 38 28 37 37 26 | Breeding (1,000 head) ¹ | 7,060 | 6,839 | 6,667 | 6,667 | 6,842 | 6,960 | 6,944 | 6,986 | 6,986 | 7,018 |
| Pig crop (1,000 head) 98,516 94,956 98,972 23,264 25,471 25,796 25,315 25,164 26,714 Cattle on Feed, 7 states (1,000 head) ⁴ Steers and Steer Calves 5,218 5,588 5,410 5,410 5,417 4,615 5,147 5,803 5,245 4,609 Heifers and Heifer Calves 2,785 3,005 3,455 3,455 3,431 3,026 3,383 3,615 3,325 3,191 Cows and Bulls 30 74 78 78 56 38 28 37 37 26 | Market (1,000 head) ¹ | 52,930 | 51,425 | 49,474 | 49,474 | 48,996 | 51,303 | 54,219 | 53,929 | 53,084 | 54,582 |
| Cattle on Feed, 7 states (1,000 head) ⁴ Steers and Steer Calves 5,218 5,588 5,410 5,410 5,417 4,615 5,147 5,803 5,245 4,609 Heifers and Heifer Calves 2,785 3,005 3,455 3,455 3,451 3,026 3,383 3,615 3,325 3,191 Cows and Bulls 30 74 78 78 56 38 28 37 37 26 | - · · · · · · · · · · · · · · · · · · · | | 11,187 | | | 2,944 | 2,959 | 2,929 | | 3,055 | 3,034 |
| Steers and Steer Calves 5,218 5,588 5,410 5,410 5,417 4,615 5,147 5,803 5,245 4,609 Heifers and Heifer Calves 2,785 3,005 3,455 3,455 3,431 3,026 3,383 3,615 3,325 3,191 Cows and Bulls 30 74 78 78 56 38 28 37 37 26 | Pig crop (1,000 head) | 98,516 | 94,956 | 98,972 | 23,264 | 25,471 | 25,796 | 25,315 | 25,164 | 26,714 | |
| Steers and Steer Calves 5,218 5,588 5,410 5,410 5,417 4,615 5,147 5,803 5,245 4,609 Heifers and Heifer Calves 2,785 3,005 3,455 3,455 3,431 3,026 3,383 3,615 3,325 3,191 Cows and Bulls 30 74 78 78 56 38 28 37 37 26 | Cattle on Feed, 7 states (1,000 head) ⁴ | | | | | | | | | | |
| Cows and Bulls 30 74 78 78 56 38 28 37 37 26 | | 5,218 | 5,588 | 5,410 | 5,410 | 5,417 | 4,615 | 5,147 | 5,803 | 5,245 | 4,609 |
| | Heifers and Heifer Calves | | 3,005 | 3,455 | 3,455 | 3,431 | 3,026 | 3,383 | 3,615 | 3,325 | 3,191 |
| | Cows and Bulls | 30 | 74 | 78 | 78 | 56 | 38 | 28 | 37 | 37 | 26 |

^{-- =} Not available. 1. Beginning of period. 2. Classes estimated. 3. Quarters are Dec. of preceding year to Feb. (1), Mar.-May (II), June-Aug. (III), and Sept.-Nov. (IV). 4. Beginning of period. The 7 states include AZ, CA, CO, IA, KS, NE, and TX. *Information contact: Leland Southard (202) 694-5187*

Crops & Products

Table 17—Supply & Utilization^{1,2}

| _ | | Area | _ | | | | Feed | Other | | | | |
|------------------------|--------------------|---------------------|--------------|---|------------------|---------------------|---|------------------|----------------|------------------|------------|------------------------------|
| | Set | Dlamtad | l laminata d | Viald | Duaduation | Total | & ************************************ | domestic | - Cum a mta | Total | Ending | Farm |
| _ | aside ³ | Planted Mil. Acres | Harvested | Yield Bu./acre | Production | supply ⁴ | residual | use Mil. bu. | Exports | use | stocks | price ⁵ \$/bu. |
| Wheat | | | | _ = = = = = = = = = = = = = = = = = = = | | | | | | | | ***** |
| 1994/95 | 5.2 | 70.3 | 61.8 | 37.6 | 2,321 | 2,981 | 344 | 942 | 1,188 | 2,475 | 507 | 3.45 |
| 1995/96 | 6.1 | 69.1 | 60.9 | 35.8 | 2,183 | 2,757 | 153 | 987 | 1,241 | 2,381 | 376 | 4.55 |
| 1996/97 | | 75.6 | 62.9 | 36.3 | 2,285 | 2,753 | 314 | 995 | 1,001 | 2,310 | 444 | 4.30 |
| 1997/98* | | 71.0 | 63.6 | 39.7 | 2,527 | 3,065 | 294 | 1,008 | 1,040 | 2,342 | 722 | 3.38 |
| 1998/99* | | 66.2 | 59.1 | 43.3 | 2,557 | 3,370 | 375 | 1,018 | 1,075 | 2,468 | 902 | 2.45-2.75 \$/cwt |
| Rice ⁶ | | Mil. acres | | lb./acre | | | IVIII. C | wt (rough equ | uiv) | | | Φ/CWI |
| 1994/95 | 0.3 | 3.4 | 3.3 | 5,964 | 197.8 | 230.9 | | 100.7 | 98.9 | 199.6 | 31.3 | 6.78 |
| 1995/96 | 0.5 | 3.1 | 3.1 | 5,621 | 173.9 | 212.6 | | 104.6 | 83.0 | 187.6 | 25.0 | 9.15 |
| 1996/97 | | 2.8 | 2.8 | 6,121 | 171.3 | 206.3 | | 100.7 | 78.4 | 179.1 | 27.2 | 9.96 |
| 1997/98* | | 3.1 | 3.0 | 5,896 | 178.9 | 215.3 | | 102.4 | 85.2 | 187.6 | 27.7 | 9.64 |
| 1998/99* | | 3.2 | 3.2 | 5,696 | 181.5 | 219.2 | | 108.9 | 84.0 | 192.9 | 26.3 | 8.75-9.75 |
| Corn | | Mil. acres | | Bu./acre | | | | Mil. bu. | | | | \$/bu. |
| 1994/95 | 2.4 | 79.2 | 72.9 | 138.6 | 10,103 | 10,962 | 5,523 | 1,704 | 2,177 | 9,405 | 1,558 | 2.26 |
| 1995/96 | 7.7 | 71.2 | 65.0 | 113.5 | 7,374 | 8,948 | 4,682 | 1,612 | 2,177 | 8,522 | 426 | 3.24 |
| 1996/97 | | 79.5 | 73.1 | 127.1 | 9,293 | 9,733 | 5,362 | 1,692 | 1,795 | 8,849 | 883 | 2.71 |
| 1997/98* | | 80.2 | 73.7 | 127.0 | 9,366 | 10,259 | 5,654 | 1,782 | 1,515 | 8,951 | 1,308 | 2.45 |
| 1998/99* | | 80.8 | 73.8 | 132.0 | 9,743 | 11,061 | 5,850 | 1,850 | 1,650 | 9,350 | 1,711 | 1.80-2.20 |
| | | Mil. acres | | Bu./acre | | | | Mil bu. | | | | \$/bu. |
| Sorghum | | | | | | | | | | | | |
| 1994/95 | 1.6 | 9.8 | 8.9 | 72.8 | 649 | 697 | 380 | 22 | 223 | 625 | 72 | 2.13 |
| 1995/96 | 1.7 | 9.5 | 8.3 | 55.6 | 460 | 532 | 297 | 19 | 198 | 514 | 18 | 3.19 |
| 1996/97 | | 13.2 | 11.9 | 67.5 | 803 | 821 | 524 | 45 | 205 | 774 | 47 | 2.34 |
| 1997/98* | | 10.1 | 9.4 | 69.5 | 653 | 701 | 387 | 55 | 210 | 652 | 49 | 2.20 |
| 1998/99* | | 9.7 | 7.8 | 66.5 | 521 | 570 | 275 | 45 | 195 | 515 | 55 | 1.65-2.05 |
| Porto: | | Mil. acres | | Bu./acre | | | | Mil. bu. | | | | \$/bu. |
| Barley 1994/95 | 2.7 | 7.2 | 6.7 | 56.2 | 375 | 580 | 228 | 173 | 66 | 467 | 113 | 2.03 |
| 1995/96 | 2.7 | 6.7 | 6.3 | 57.3 | 360 | 513 | 179 | 173 | 62 | 413 | 100 | 2.89 |
| 1996/97 | | 7.1 | 6.8 | 58.5 | 396 | 532 | 220 | 172 | 31 | 423 | 109 | 2.74 |
| 1997/98* | | 6.9 | 6.4 | 58.3 | 374 | 524 | 158 | 172 | 74 | 404 | 120 | 2.38 |
| 1998/99* | | 6.5 | 6.0 | 59.9 | 358 | 513 | 185 | 172 | 35 | 392 | 121 | 1.75-2.15 |
| | | Mil. acres | | Bu./acre | | | | Mil. bu. | | | | \$/bu. |
| Oats | | | | | | | | | | | | |
| 1994/95 | 0.6 | 6.6 | 4.0 | 57.1 | 229 | 428 | 234 | 92 | 1 | 327 | 101 | 1.22 |
| 1995/96 1996/97 | 0.8 | 6.3 4.7 | 3.0 2.7 | 54.7 57.8 | 162 155 | 343 319 | 183 155 | 92 95 | 2 3 | 277 252 | 66 67 | 1.67 1.96 |
| 1997/98* | | 5.2 | 2.7 | 60.5 | 176 | 341 | 170 | 95 95 | 2 | 267 | 74 | 1.60 |
| 1998/99* | | 4.9 | 2.8 | 60.5 | 170 | 334 | 165 | 95 | 2 | 262 | 72 | 1.10-1.30 |
| | | Mil. acres | | Bu./acre | | | | Mil. bu. | | | | \$/bu. |
| Soybeans ⁷ | | | | | | | | | | | | |
| 1994/95 | | 61.7 | 60.9 | 41.4 | 2,517 | 2,731 | 153 | 1,405 | 838 | 2,396 | 335 | 5.48 |
| 1995/96 | | 62.6 | 61.6 | 35.3 | 2,177 | 2,516 | 112 | 1,370 | 851 | 2,333 | 183 | 6.72 |
| 1996/97 | | 64.2 | 63.4 | 37.6 | 2,382 | 2,575 | 126 | 1,436 | 882 | 2,443 | 131 | 7.35 |
| 1997/98* | | 70.6 | 69.6 | 38.8 | 2,703 | 2,839 | 164 | 1,597 | 877 | 2,639 | 200 | 6.45 |
| 1998/99* | | 72.7 | 71.6 | 38.7 | 2,769 | 2,975 | 150 | 1,600 | 830 | 2,580 | 395 | 5.00-5.70 |
| Couloon oil | | | | | | | | Mil. Ibs. | | | | ¢/lb. |
| Soybean oil 1994/95 | | | | | 15,613 | 16,733 | | 12,916 | 2,680 | 15,597 | 1,137 | 27.58 |
| 1995/96 | | | | | 15,240 | 16,472 | | 13,465 | 992 | 14,457 | 2,015 | 24.75 |
| 1996/97 | | | | | 15,752 | 17,821 | | 14,263 | 2,037 | 16,300 | 1,520 | 22.50 |
| 1997/98* | | | | | 18,108 | 19,685 | | 15,200 | 3,175 | 18,375 | 1,310 | 25.84 |
| 1998/99* | | | | | 18,080 | 19,445 | | 15,350 | 2,650 | 18,000 | 1,445 | 25.50-28.50 |
| | | | | | | | | 1,000 tons | | | | \$/ton ⁸ |
| Soybean meal | | | | | 22 270 | 33 403 | | 26 F 42 | 6 747 | 33 360 | 222 | 160.0 |
| 1994/95 1995/96 | | | | | 33,270 32,527 | 33,483 32,826 | | 26,542 26,611 | 6,717 6,002 | 33,260 32,613 | 223 212 | 162.6 236.0 |
| 1995/96 | | | | | 34,210 | 34,524 | | 27,320 | 6,002 | 34,314 | 212 | 270.9 |
| 1997/98* | | | | | 38,070 | 38,335 | | 28,660 | 9,400 | 38,060 | 275 | 187.5 |
| 1998/99* | | | | | 37,925 | 38,250 | | 29,600 | 8,400 | 38,000 | 250 | 130-150 |

Table 17—Supply & Utilization (continued)_____

| | | Area | | | | | Feed | Other | | | | |
|---------------------|--------------------|-------------|-----------|----------|------------|---------------------|----------|------------|---------|-------|--------|--------------------|
| | Set | | | | | Total | & | domestic | | Total | Ending | Farm |
| | aside ³ | Planted | Harvested | Yield | Production | Supply ⁴ | residual | use | Exports | Use | stocks | price ⁵ |
| | | _Mil. Acres | | Lb./acre | | | | Mil. Bales | | | | ¢/lb. |
| Cotton ⁹ | | | | | | | | | | | | |
| 1994/95 | 1.7 | 13.7 | 13.3 | 709 | 19.7 | 23.2 | | 11.2 | 9.4 | 20.6 | 2.7 | 72.0 |
| 1995/96 | 0.3 | 16.9 | 16.0 | 537 | 17.9 | 21.0 | | 10.6 | 7.7 | 18.3 | 2.6 | 75.4 |
| 1996/97 | | 14.6 | 12.9 | 707 | 18.9 | 22.0 | | 11.1 | 6.9 | 18.0 | 4.0 | 69.3 |
| 1997/98* | | 13.8 | 13.3 | 680 | 18.8 | 22.8 | | 11.3 | 7.5 | 18.8 | 3.9 | 64.9 |
| 1998/99* | | 12.9 | 10.3 | 616 | 13.3 | 17.5 | | 10.6 | 4.5 | 15.1 | 2.3 | |

^{-- =} Not available or not applicable. *October 9, 1998 Supply and Demand Estimates. 1. Marketing year beginning June1 for wheat, barley, and oats; August 1 for cotton and rice; September 1 for soybeans, corn, and sorghum; October 1 for soymeal and soyoil. 2. Conversion factors: Hectare (ha.) = 2.471 acres, 1 metric ton = 2,204.622 pounds, 36.7437 bushels of wheat or soybeans, 39.3679 bushels of corn or sorghum, 45.9296 bushels of barley, 68.8944 bushels of oats, 22.046 cwt of rice, and 4.59 480-pound bales of cotton. 3. Includes diversion, acreage reduction, 50-92, & 0-92 programs. 0/92 & 50/92 set-aside includes idled acreage and acreage planted to minor oilseeds, sesame, and crambe. 4. Includes imports. 5. Marketing-year weighted average price received by farmers. Does not include an allowance for loans outstanding and government purchases. 6. Residual included in domestic use. 7. Includes seed. 8. Simple average of 48 percent, Decatur. 9. Upland and extra-long staple. Stocks estimates based on Census Bureau data, resulting in an unaccounted difference between supply and use estimates and changes in ending stocks. *Information contacts: Wheat, rice, feed grains*,

Table 18—Cash Prices, Selected U.S. Commodities_____

| | Marketing year ¹ | | | 1997 | 1998 | | | | | | |
|--|-----------------------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|
| | 1995/96 | 1996/97 | 1997/98 | Jul | Feb | Mar | Apr | May | Jun | Jul | |
| Wheat, no. 1 HRW, | | | | | | | | | | _ | |
| Kansas City (\$/bu.) ² Wheat, DNS, | 5.49 | 4.88 | 3.71 | 3.57 | 3.64 | 3.61 | 3.39 | 3.41 | 3.16 | 3.02 | |
| Minneapolis (\$/bu.)3 | 5.72 | 4.96 | 4.31 | 4.80 | 4.15 | 4.26 | 4.29 | 4.24 | 4.01 | 3.89 | |
| Rice, S.W. La. (\$/cwt) ⁴ | 18.90 | 20.34 | 18.92 | 20.50 | 19.00 | 18.55 | 18.38 | 18.31 | 18.50 | 18.50 | |
| Corn, no. 2 yellow, 30-day, | | | | | | | | | | | |
| Chicago (\$/bu.) ⁵ | 3.97 | 2.84 | 2.62 | 2.57 | 2.72 | 2.71 | 2.53 | 2.50 | 2.44 | 2.27 | |
| Sorghum, no. 2 yellow, | | | | | | | | | | | |
| Kansas City (\$/cwt) ⁵ | 6.66 | 4.54 | 4.19 | 4.18 | 4.36 | 4.40 | 4.10 | 4.09 | 4.03 | 3.74 | |
| Barley, feed, | | | | | | | | | | | |
| Duluth (\$/bu.) | 2.67 | 2.32 | 1.90 | 2.40 | 1.56 | 1.51 | 1.42 | | | 1.23 | |
| Barley, malting | 2.00 | 2.40 | 2.50 | 1.74 | | | | | | | |
| Minneapolis (\$/bu.) | 3.69 | 3.18 | 2.50 | 1.74 | | | | | | | |
| U.S. cotton price, SLM, | | | | | | | | | | | |
| 1-1/16 in. (¢/lb.) ⁶ | 83.00 | 71.60 | 67.79 | 71.83 | 63.66 | 67.04 | 61.88 | 65.21 | 73.50 | 74.18 | |
| Northern Europe prices | | | | | | | | | | | |
| cotton index (¢/lb.) ⁷ | 85.60 | 78.66 | 72.11 | 81.47 | 68.68 | 68.41 | 65.08 | 64.61 | 68.06 | 69.36 | |
| U.S. M 1-3/32 in. (¢/lb.) ⁸ | 94.70 | 82.86 | 77.98 | 83.70 | 74.50 | 75.38 | 71.75 | 73.06 | 80.63 | 81.35 | |
| Soybeans, no. 1 yellow, 30-day | | | | | | | | | | | |
| Chicago (\$/bu) | 6.72 | 7.38 | 6.51 | 6.26 | 6.75 | 6.55 | 6.43 | 6.42 | 6.31 | 6.26 | |
| Soybean oil, crude, | | | | | | | | | | | |
| Decatur (¢/lb.) | 24.75 | 22.50 | 24.69 | 21.89 | 26.51 | 27.09 | 28.10 | 28.27 | 25.83 | 24.88 | |
| Soybean meal, 48% protein, | | | | | | | | | | | |
| Decatur (\$/ton) | 236.00 | 270.90 | 276.78 | 273.56 | 192.75 | 174.20 | 162.50 | 160.00 | 168.60 | 183.40 | |

^{-- =} No quotes. 1. Beginning June 1 for wheat and barley; Aug. 1 for rice and cotton; September 1 for corn, sorghum, and soybeans; October 1 for soymeal and oil. 2. Ordinary protein. 3. 14 percent protein. 4. Long grain, milled basis. 5. Marketing year 1997/98 data are preliminary. 6. Average spot market. 7. Liverpool Cotlook "A" Index; average of 5 lowest prices of 13 selected growths. 8. Cotton, Memphis territory growths. *Information contacts: Wheat, rice, and feed, Jenny Gonzales (202) 694-5296; soybeans, soybean products, and cotton, Mae Dean Johnson (202) 694-5299*

Table 19—Farm Programs, Price Supports, Participation, & Payment Rates_

| | Target | Basic Ioan | Findley or announced | Total deficiency payment | Effective base | ment nate | Flexibility contract payment | Acres under | Contract payment | Partici- pation |
|---|--------------------------|--|--|-----------------------------------|--|----------------------------|------------------------------------|--------------------------|----------------------------|--------------------|
| | price | rate | loan rate ¹ | rate | acres ² | Program ³ | rate | contract | yields | rate ⁴ |
| | | \$/b | N.I. | | Mil. acres | Percent of base | \$/bu. | Mil. acres | Bu./cwt | Percent |
| Wheat | | ψ/ ω | ·u | | acres | or base | ψ/υα. | Will. acres | Du./CWI | reroent |
| 1994/95 1995/96 1996/97 1997/98 1998/99 ⁵ | 4.00 4.00 | 2.72 2.69 | 2.58 2.58 2.58 2.58 2.58 | 0.61 0.00 | 78.10 77.70 | 0/0/0 0/0/0 | 0.874 0.631 0.663 | 76.7 76.7 78.9 | 34.70 34.70 34.50 | 87 85 99 |
| | | \$/cwt | | | | | \$/cwt | | | |
| Rice | 10.71 | 0.50 | 5 00 f | 0.70 | 4.00 | 0/0/0 | | | | 0.5 |
| 1994/95 1995/96 1996/97 1997/98 1998/99 ⁵ | 10.71 10.71 | 6.50 6.50 6.50 6.50 6.50 \$/bu. | 5.88 ⁶ 6.50 ⁶ | 3.79 3.22 ⁷ | 4.20 4.20 | 0/0/0 5/0/0 | 2.766 2.710 2.921 \$/bu. | 4.2 4.2 4.2 | 48.27 48.17 48.17 | 95 95 99 |
| Corn | | φ/ δα. | | | | | φ/ εα. | | | |
| 1994/95 1995/96 1996/97 1997/98 1998/99 ⁵ | 2.75 2.75 | 1.99 1.94 | 1.89 1.89 1.89 1.89 1.89 | 0.57 0.00 | 81.50 81.80 | 0/0/0 7.5/0/0 | 0.251 0.486 0.377 | 80.7 80.9 82.0 | 102.90 102.80 102.60 | 81 82 98 |
| | | \$/bu. | | | | | \$/bu. | | | |
| Sorghum 1994/95 1995/96 1996/97 1997/98 1998/99 ⁵ | 2.61 2.61 | 1.89 1.84 \$/bu. | 1.80 1.80 1.81 1.76 1.74 | 0.59 0.00 | 13.50 13.30 | 0/0/0 0/0/0 | 0.323 0.544 0.452 \$/bu. | 13.1 13.1 13.6 | 57.30 57.30 56.90 | 81 77 99 |
| Barley | | | | | | | | | | |
| 1994/95 1995/96 1996/97 1997/98 1998/99 ⁵ | 2.36 2.36 | 1.62 1.58 \$/bu. | 1.54 1.54 1.55 1.57 1.56 | 0.52 0.00 | 10.70 10.70 | 0/0/0 0/0/0 | 0.332 0.277 0.284 \$/bu. | 10.5 10.5 11.2 | 47.30 47.20 46.70 | 84 82 99 |
| Oats | | | | | | | • | | | |
| 1994/95 1995/96 1996/97 1997/98 1998/99 ⁵ | 1.45 1.45 | 1.02 1.00 | 0.97 0.97 1.03 1.11 1.11 | 0.19 0.00 | 6.80 6.50 | 0/0/0 0/0/0 | 0.033 0.031 0.031 | 6.2 6.2 6.5 | 50.80 50.80 50.70 | 40 44 97 |
| Soybeans ⁸ | | \$/bu. | | | | | \$/bu. | | | |
| 1994/95 1995/96 1996/97 1997/98 1998/99 | | | 4.92 4.92 4.97 5.26 5.26 | | | - - - - | | | | |
| Haland | | ¢/lb. | | | | | ¢/lb. | | | |
| Upland cotton 1994/95 1995/96 1996/97 1997/98 1998/99 ⁵ | 72.90 72.90 | 50.00 51.92 51.92 51.92 51.92 | 50.00 ⁹ 51.92 ⁹ | 4.60 0.00 ⁷ | 15.30 15.50 footnotes 5 an | 11/0/0 0/0/0 | 8.882 7.625 8.173 | 16.2 16.2 16.4 | 610.00 608.00 604.00 | 89 79 99 |

^{-- =} Not available. 1. There are no Findley loan rates for rice or cotton. See footnotes 5 and 7. 2. Prior to 1996, national effective crop acreage base as determined by FSA. Net of CRP. 3. Program requirements for participating producers (mandatory acreage reduction program/mandatory paid land diversion/optional paid land diversion). Acres idled must be devoted to a conserving use to receive program benefits. 4. Percentage of effective base enrolled in acreage reduction programs. Starting in 1996, participation rate is the percent of eligible acres that entered production flexibility contracts. 5. Estimated payment rates and acres under contract. 6. A marketing loan has been in effect for rice since 1985/86. Loans may be repaid at the lower of: a) the loan rate or b) the adjusted world market price(announced weekly). Loans cannot be repaid at less than a specified fraction of the loan rate. Data refer to marketing-year average loan repayment rates. Beginning with the 1996 crop, loans are repaid at the lower of the loan rate plus accumulated interest or the adjusted world price. 7. Guaranteed payment rates for producers in the 50/85/92 program were \$0.034/lb. for upland cotton and \$4.21/cwt. for rice. 8. There are no target prices, base acres, acreage reduction programs or deficiency payment rates for soybeans. 9. A marketing loan has been in effect for cotton since 1986/87. In 1987/88 and after, loans may be repaid at the lower of: a) the loan rate or b) the adjusted world market price (announced weekly; Plan B). Starting in 1991/92, loans cannot be repaid at less than 70 percent of the loan rate. Data refer to annual average loan repayment rates. Beginning with the 1996 crop, loans are repaid at the lower of the loan rate plus accumulated interest or the adjusted world price. Note: The 1996 Act replaced target prices and deficiency payments with fixed annual payments to producers. *Information contact: Brenda Chewning, Farm Service Agency (202) 720-8838*

Table 20—Fruit_

| | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Citrus ¹ | | | | | | | | | | - |
| Production (1,000 tons) | 13,186 | 10,860 | 11,285 | 12,452 | 15,274 | 14,561 | 15,799 | 16,009 | 17,468 | 18,160 |
| Per capita consumpt. (lb.) ² | 23.6 | 21.4 | 19.1 | 24.4 | 26.0 | 25.0 | 24.1 | 24.9 | 27.6 | 29.3 |
| Noncitrus ³ | | | | | | | | | | |
| Production (1,000 tons) | 16,345 | 15,640 | 15,740 | 17,124 | 16,563 | 17,341 | 16,356 | 16,117 | 17,656 | |
| Per capita consumpt. (lb.) ² | 72.3 | 70.7 | 70.6 | 74.5 | 73.1 | 75.6 | 73.6 | 74.1 | 73.5 | |
| | 1997 | | | | | 1998 | | | | |
| | Sep | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Grower prices | • | | | | | | | | | |
| Apples (¢/pound) ⁴ | 25.9 | 22.3 | 21.6 | 21.3 | 19.2 | 18.2 | 16.3 | 16.1 | 19.0 | 22.7 |
| Pears (¢/pound) ⁴ | 18.40 | 12.65 | 13.00 | 12.15 | 14.60 | 18.65 | 17.65 | 20.25 | 22.85 | 21.00 |
| Oranges (\$/box) ⁵ | 7.15 | 3.15 | 3.73 | 5.14 | 5.79 | 5.86 | 6.70 | 6.71 | 5.37 | 4.97 |
| Grapefruit (\$/box) ⁵ | 4.22 | 1.79 | 1.61 | 1.03 | 1.36 | 0.42 | 3.58 | 3.66 | 6.01 | 11.09 |
| Stocks, ending | | | | | | | | | | |
| Fresh apples (mil. lb.) | 2,968 | 3,729 | 2,841 | 2,277 | 1,626 | 1,113 | 637 | 322 | 312 | |
| Fresh pears (mil. lb.) | 616 | 273 | 212 | 125 | 61 | 32 | 4 | 0 | 94 | |
| Frozen fruits (mil. lb.) | 1,051 | 1,128 | 1,009 | 882 | 808 | 764 | 836 | 1,040 | 1,027 | |
| Frozen conc.orange juice | | | | | | | | | | |
| (mil. single-strength gallons) | 526 | 794 | 828 | 826 | 1,010 | 1,066 | 999 | 914 | 823 | |

^{-- =} Not available. 1. Year shown is when harvest concluded. 2. Fresh per capita consumption. 3. Calendar year. 4. Fresh use. 5. U.S. equivalent on-tree returns. *Information contact: Susan Pollack (202) 694-5251*

Table 21—Vegetables

| labio El Togolabios | | | | | | | | | | |
|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------|
| | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| Production 1/ | | | | | | | | | | |
| Total vegetables (1,000 cwt) | 543,435 | 562,938 | 565,754 | 677,975 | 675,793 | 762,934 | 742,595 | 759,347 | 752,266 | |
| Fresh (1,000 cwt) 2/4/ | 254,418 | 254,039 | 242,733 | 393,249 | 377,698 | 396,671 | 391,699 | 408,823 | 428,171 | |
| Processed (tons) 3/4/ | 14,450,860 | 15,444,970 | 16,151,030 | 14,236,320 | 14,904,750 | 18,313,150 | 17,544,780 | 17,526,190 | 16,204,740 | |
| Mushrooms (1,000 lbs) 5/ | 714,992 | 749,151 | 746,832 | 776,357 | 750,799 | 782,340 | 777,870 | 776,677 | 808,602 | |
| Potatoes (1,000 cwt) | 370,444 | 402,110 | 417,622 | 425,367 | 428,693 | 467,054 | 443,606 | 498,633 | 465,537 | |
| Sweetpotatoes (1,000 cwt) | 11,358 | 12,594 | 11,203 | 12,005 | 11,053 | 13,395 | 12,906 | 13,456 | 13,512 | |
| Dry edible beans (1,000 cwt) | 23,729 | 32,379 | 33,765 | 22,615 | 21,913 | 29,028 | 30,812 | 27,960 | 29,156 | 29,886 |
| | 199 | 97 | | 1998 | | | | | | |
| | Aug | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| Shipments (1,000 cwt) | | | | | | | | | | |
| Fresh | 17,819 | 18,377 | 23,713 | 18,723 | 20,292 | 28,362 | 28,082 | 29,181 | 32,093 | 18,422 |
| Iceberg lettuce | 3,497 | 2,908 | 4,089 | 3,233 | 3,094 | 4,125 | 3,628 | 3,377 | 4,020 | 3,099 |
| Tomatoes, all | 3,077 | 3,776 | 4,189 | 3,057 | 3,647 | 4,767 | 3,540 | 3,031 | 3,962 | 2,667 |
| Dry-bulb onions | 3,423 | 3,627 | 4,075 | 3,436 | 2,753 | 4,009 | 3,584 | 3,006 | 3,254 | 3,278 |
| Others 6/ | 7,822 | 8,066 | 11,360 | 8,997 | 10,798 | 15,461 | 17,330 | 19,767 | 20,857 | 9,378 |
| Potatoes, all | 9,682 | 14,067 | 16,328 | 11,870 | 15,619 | 23,416 | 14,554 | 11,965 | 12,732 | 9,569 |
| Sweetpotatoes | 185 | 172 | 146 | 180 | 252 | 373 | 213 | 147 | 140 | 96 |

^{1.} Calendar year except mushrooms. 2. Includes fresh production of asparagus, broccoli, carrots, cauliflower, celery, sweet corn, lettuce, honeydews, onions, & tomatoes through 1991. 3. Includes processing production of snap beans, sweet corn, green peas, tomatoes, cucumbers (for pickles), asparagus broccoli, carrots, and cauliflower. 4. Data after 1991 not comparable to previous years because commodity estimates reinstated in 1992 are included 5. Fresh and processing agaricus mushrooms only. Excludes specialty varieties. Crop year July 1- June 30. 6. Includes snap beans, broccoli, cabbage, cauliflower, celery, sweet corn, cucumbers, eggplant, bell peppers, honeydews, and watermelons. *Information contact: Gary Lucier (202) 694-5253*

Table 22—Other Commodities_

| | Annual | | | 1996 1997 | | | 1997 | | | 1998 | |
|-----------------------------------|---------|---------|---------|-----------|--------|--------|--------|--------|--------|--------|--|
| | 1995 | 1996 | 1997 | IV | I | II | III | IV | I | II | |
| Sugar | | | | | | | | | | | |
| Production ¹ | 7,978 | 7,268 | 7,418 | 3,874 | 2,075 | 679 | 576 | 4,088 | 2,376 | 824 | |
| Deliveries ¹ | 9,451 | 9,633 | 9,764 | 2,471 | 2,215 | 2,436 | 2,643 | 2,469 | 2,261 | 2,465 | |
| Stocks, ending ¹ | 2,908 | 3,195 | 3,376 | 2,908 | 3,901 | 2,734 | 1,488 | 3,195 | 3,917 | 2,881 | |
| Coffee | | | | | | | | | | | |
| Composite green price | | | | | | | | | | | |
| N.Y. (¢/lb.) | 142.18 | 109.35 | 146.49 | 98.82 | 134.80 | 172.99 | 143.29 | 134.89 | 143.58 | 117.73 | |
| Imports, green bean | | | | | | | | | | | |
| equiv. (mil. lbs.) ² | 2,182 | 2,494 | | | | | | | | | |
| | | Annual | | 1997 | | | 1998 | 3 | | | |
| | 1995 | 1996 | 1997 | Aug | Mar | Apr | May | Jun | Jul | Aug | |
| Tobacco | | | | | | | | | | | |
| Avg. price to grower ³ | | | | | | | | | | | |
| Flue-cured (\$/lb.) | 1.79 | 1.83 | 1.73 | 1.60 | | | | | 1.63 | 1.62 | |
| Burley (\$/lb.) | 1.85 | 1.92 | 1.86 | | 1.76 | 1.70 | | | | | |
| Domestic taxable removals | | | | | | | | | | | |
| Cigarettes (bil.) | 490.3 | 486.0 | 471.4 | 43.6 | 40.2 | 35.4 | 39.9 | | | | |
| Large cigars (mil.) ⁴ | 2,561.7 | 3,166.4 | 3,552.9 | 339.3 | 325.6 | 329.6 | 322.9 | | | | |

^{-- =} Not available. 1. 1,000 short tons, raw value. Quarterly data shown at end of each quarter. 2. Net imports of green and processed coffee.

Information contacts: Sugar: Fannye Jolly (202) 694-5249; tobacco, Tom Capehart (202) 694-5245

 $^{{\}it 3. Crop\ year\ July-June\ for\ flue-cured,\ October-September\ for\ burley.}\quad {\it 4.\ Includes\ imports\ of\ large\ cigars.}$

World Agriculture

Table 23—World Supply & Utilization of Major Crops, Livestock & Products_____

| | 1989/90 | 1990/91 | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997/98 | 1998/99 F |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | _ | | _ | Million | units | | _ | _ | |
| Wheat | | | | | | | | | | |
| Area (hectares) | 225.8 | 231.4 | 222.5 | 223.1 | 222.4 | 215.5 | 219.8 | 231.3 | 229.9 | 225.6 |
| Production (metric tons) | 533.2 | 588.0 | 542.9 | 562.2 | 559.4 | 525.2 | 538.1 | 583.3 | 611.7 | 590.6 |
| Exports (metric tons ¹ | 103.7 | 101.1 | 111.1 | 112.7 | 101.1 | 100.0 | 98.0 | 100.1 | 100.1 | 97.9 |
| Consumption (metric tons) ² | 532.7 | 561.9 | 555.5 | 550.2 | 562.3 | 548.1 | 550.8 | 577.9 | 588.0 | 601.8 |
| Ending stocks (metric tons) ³ | 118.9 | 145.1 | 132.5 | 144.5 | 141.5 | 118.6 | 105.9 | 111.3 | 135.0 | 123.8 |
| Coarse grains | | | | | | | | | | |
| Area (hectares) | 321.9 | 316.3 | 321.9 | 323.8 | 317.5 | 323.2 | 313.6 | 322.8 | 314.6 | 310.7 |
| Production (metric tons) | 793.7 | 828.7 | 810.5 | 871.9 | 799.5 | 873.2 | 802.0 | 908.2 | 888.6 | 882.9 |
| Exports (metric tons ¹ | 104.7 | 89.1 | 95.6 | 91.9 | 85.3 | 98.0 | 87.9 | 93.3 | 86.9 | 86.5 |
| Consumption (metric tons) ² | 817.7 | 817.1 | 809.7 | 843.8 | 839.2 | 860.8 | 840.3 | 879.1 | 880.7 | 880.4 |
| Ending stocks (metric tons) ³ | 123.2 | 134.8 | 135.6 | 163.6 | 123.8 | 136.2 | 97.9 | 126.9 | 134.8 | 137.3 |
| Rice, milled | | | | | | | | | | |
| Area (hectares) | 146.5 | 146.6 | 147.4 | 146.7 | 145.5 | 147.9 | 148.1 | 149.8 | 148.2 | 149.0 |
| Production (metric tons) | 343.9 | 352.0 | 354.7 | 355.8 | 355.6 | 364.8 | 371.2 | 380.2 | 385.4 | 376.3 |
| Exports (metric tons ¹ | 11.7 | 12.1 | 14.1 | 14.9 | 16.4 | 21.0 | 19.5 | 18.9 | 24.9 | 20.4 |
| Consumption (metric tons) ² | 338.2 | 347.4 | 356.4 | 357.9 | 358.7 | 366.9 | 371.2 | 379.1 | 384.4 | 385.1 |
| Ending stocks (metric tons) ³ | 54.5 | 59.1 | 57.5 | 55.3 | 52.2 | 50.1 | 50.1 | 51.2 | 52.2 | 43.4 |
| Total grains | | | | | | | | | | |
| Area (hectares) | 694.2 | 694.3 | 691.8 | 693.6 | 685.4 | 686.6 | 681.5 | 703.9 | 692.7 | 685.3 |
| Production (metric tons) | 1,670.8 | 1,768.7 | 1,708.1 | 1,789.9 | 1,714.5 | 1,763.2 | 1,711.3 | 1,871.7 | 1,885.7 | 1849.8 |
| Exports (metric tons ¹ | 220.1 | 202.3 | 220.8 | 219.5 | 202.8 | 219.0 | 205.4 | 212.3 | 211.9 | 204.8 |
| Consumption (metric tons) ² | 1,688.6 | 1,726.4 | 1,721.6 | 1,751.9 | 1,760.2 | 1,775.8 | 1,762.3 | 1,836.1 | 1,853.1 | 1867.3 |
| Ending stocks (metric tons) ³ | 296.6 | 339.0 | 325.6 | 363.4 | 317.5 | 304.9 | 253.9 | 289.4 | 322.0 | 304.5 |
| Oilseeds | | | | | | | | | | |
| Crush (metric tons) | 171.7 | 176.7 | 185.1 | 184.4 | 190.1 | 208.1 | 217.5 | 219.1 | 229.6 | 235.5 |
| Production (metric tons) Exports (metric tons) | 212.4 35.6 | 215.7 33.4 | 224.3 37.6 | 227.5 38.2 | 229.4 38.7 | 261.8 44.1 | 258.5 44.3 | 261.2 49.4 | 287.1 53.3 | 290.8 52.6 |
| Ending stocks (metric tons) | 23.7 | 23.4 | 21.9 | 23.6 | 20.3 | 27.2 | 22.1 | 49.4 16.4 | 22.2 | 26.2 |
| , | 23.7 | 23.4 | 21.9 | 23.0 | 20.3 | 21.2 | 22.1 | 10.4 | 22.2 | 20.2 |
| Meals | | | | | | | | | .= | |
| Production (metric tons) | 116.8 | 119.3 | 125.2 | 125.2 | 131.7 | 142.1 | 147.4 | 149.3 | 156.1 | 160.6 |
| Exports (metric tons) | 39.8 | 40.7 | 42.2 | 40.8 | 44.9 | 46.7 | 49.7 | 50.3 | 51.4 | 54.2 |
| Oils | | | | | | | | | | |
| Production (metric tons) | 57.1 | 58.1 | 60.6 | 61.1 | 63.7 | 69.6 | 73.2 | 75.5 | 76.8 | 79.8 |
| Exports (metric tons) | 20.4 | 20.5 | 21.3 | 21.3 | 24.3 | 27.1 | 26.0 | 28.8 | 29.3 | 29.9 |
| Cotton | | | | | | | | | | |
| Area (hectares) | 31.6 | 33.2 | 34.8 | 32.6 | 30.7 | 32.2 | 35.9 | 33.8 | 33.5 | 32.7 |
| Production (bales) | 79.7 | 87.1 | 95.7 | 82.5 | 76.7 | 85.6 | 93.0 | 89.4 | 91.1 | 84.8 |
| Exports (bales) | 31.3 | 29.8 | 28.2 | 25.6 | 26.7 | 28.4 | 27.8 | 26.9 | 26.3 | 25.2 |
| Consumption (bales) | 86.9 | 85.6 | 86.0 | 85.8 | 85.5 | 85.6 | 87.1 | 88.2 | 88.4 | 86.6 |
| Ending stocks (bales) | 24.8 | 26.9 | 37.0 | 34.4 | 26.3 | 28.3 | 33.8 | 37.0 | 40.5 | 38.5 |
| | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 F | 1997 F | 1998 F |
| Red meat ⁴ | | | | | | | | | | |
| Production (metric tons) | 112.3 | 116.9 | 117.7 | 117.3 | 119.3 | 124.6 | 130.2 | 135.5 | 137.4 | 140.1 |
| Consumption (metric tons) | 110.9 | 114.8 | 116.1 | 115.7 | 118.3 | 123.5 | 128.7 | 132.8 | 135.1 | 138.9 |
| Exports (metric tons) ¹ | 8.2 | 7.5 | 7.5 | 7.4 | 7.4 | 8.1 | 8.2 | 8.5 | 8.6 | 8.5 |
| Poultry ⁴ | | | | | | | | | | |
| Production (metric tons) | 33.1 | 37.6 | 39.6 | 38.0 | 40.5 | 43.9 | 47.7 | 50.5 | 52.7 | 54.8 |
| Consumption (metric tons) | 32.6 | 36.5 | 38.4 | 37.0 | 39.4 | 42.5 | 46.2 | 48.8 | 50.8 | 53.0 |
| Exports (metric tons) ¹ | 1.7 | 2.4 | 2.8 | 2.4 | 2.8 | 3.7 | 4.6 | 5.3 | 5.7 | 5.9 |
| Dairy | | | | | | | | | | |
| Milk production (metric tons) ⁵ | 387.4 | 395.0 | 377.6 | 378.4 | 377.6 | 378.4 | 380.8 | 379.8 | 381.2 | 383.4 |

F = Forecast. 1. Excludes intra-EU trade but includes intra-FSU trade. 2. Where stocks data are not available, consumption includes stock changes. 3. Stocks data are based on differing marketing years and do not represent levels at a given date. Data not available for all countries. 4. Calendar year data. 1990 data correspond with 1989/90, etc. 5. Data prior to 1989 no longer comparable. *Information contacts: Crops, Ed Allen (202) 694-5288; red meat and poultry, Shayle Shagam (202) 694-5186; dairy, LaVerne Williams (202) 694-5190*

U.S. Agricultural Trade

Table 24—Prices of Principal U.S. Agricultural Trade Products_

| | | Annual | | 1997 | | | 199 | 8 | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1995 | 1996 | 1997 | Sep | Apr | May | Jun | Jul | Aug | Sep |
| Export commodities | | | • | • | | | | | | |
| Wheat, f.o.b. vessel, Gulf ports (\$/bu.) | 4.82 | 5.63 | 4.35 | 4.08 | 3.55 | 3.50 | 3.28 | 3.21 | 2.96 | 2.94 |
| Corn, f.o.b. vessel, Gulf ports (\$/bu.) | 3.13 | 4.17 | 2.98 | 2.89 | 2.72 | 2.70 | 2.65 | 2.56 | 2.25 | 2.19 |
| Grain sorghum, f.o.b. vessel, | | | | | | | | | | |
| Gulf ports (\$/bu.) | 3.13 | 3.90 | 2.89 | 2.72 | 2.68 | 2.63 | 2.56 | 2.51 | 2.34 | 2.16 |
| Soybeans, f.o.b. vessel, Gulf ports (\$/bu.) | 6.50 | 7.88 | 7.94 | 7.41 | 6.68 | 6.66 | 6.59 | 6.57 | 5.83 | 5.62 |
| Soybean oil, Decatur (¢/lb.) | 26.75 | 23.75 | 23.33 | 22.88 | 28.10 | 28.28 | 25.83 | 24.88 | 24.00 | 25.14 |
| Soybean meal, Decatur, (\$/ton) | 173.70 | 246.67 | 266.70 | 278.29 | 162.51 | 160.03 | 168.55 | 183.45 | 146.15 | 135.83 |
| Cotton, 7-market avg. spot (¢/lb.) | 93.45 | 77.93 | 69.62 | 70.75 | 61.88 | 65.21 | 73.50 | 74.18 | 71.87 | 71.77 |
| Tobacco, avg. price at auction (¢/lb.) | 178.79 | 183.20 | 182.74 | 175.49 | 169.05 | | | 162.96 | 159.51 | 176.99 |
| Rice, f.o.b., mill, Houston (\$/cwt) | 16.68 | 19.64 | 20.88 | 20.55 | 19.00 | 19.00 | 19.00 | 19.00 | 18.85 | 18.75 |
| Inedible tallow, Chicago (¢/lb.) | 19.22 | 20.13 | 20.75 | 20.88 | 17.38 | 20.35 | 19.63 | 17.31 | 17.57 | 16.69 |
| Import commodities | | | | | | | | | | |
| Coffee, N.Y. spot (\$/lb.) | 1.45 | 1.29 | 2.05 | 2.12 | 1.57 | 1.43 | 1.30 | 1.20 | 1.28 | 1.13 |
| Rubber, N.Y. spot (¢/lb.) | 82.52 | 72.88 | 55.40 | 51.89 | 41.27 | 42.65 | 41.26 | 40.03 | 38.58 | 68.66 |
| Cocoa beans, N.Y. (\$/lb.) | 0.61 | 0.62 | 0.69 | 0.77 | 0.75 | 0.78 | 0.74 | 0.73 | 0.72 | 0.72 |

Information contact: Mary Teymourian (202) 694-5173 or maryt@econ.ag.gov

Table 25—Trade Balance_

| | Calendar Year | | | 1997 | | | 1998 | ; | | |
|--------------------|---------------|---------------------|---------------------|---------|-----------|---------|---------|---------|---------|---------|
| | 1997 | 1998 F ¹ | 1999 P ¹ | Aug | Mar | Apr | May | Jun | Jul | Aug |
| | | | | | \$ millio | on | | | | |
| Exports | | | | | | | | | | |
| Agricultural | 57,245 | 54,500 | 52,000 | 4,427 | 4,733 | 4,249 | 3,928 | 3,971 | 3,884 | 3,704 |
| Nonagricultural | 585,977 | | | 48,161 | 53,299 | 48,859 | 48,774 | 49,191 | 44,054 | 45,692 |
| Total ² | 643,222 | | | 52,588 | 58,032 | 53,108 | 52,702 | 53,162 | 47,938 | 49,396 |
| Imports | | | | | | | | | | |
| Agricultural | 36,289 | 38,000 | 39,500 | 2,849 | 3,453 | 3,328 | 2,981 | 3,099 | 2,908 | 2,857 |
| Nonagricultural | 828,412 | | | 69,739 | 74,105 | 72,059 | 70,193 | 73,577 | 72,818 | 72,688 |
| Total ³ | 864,701 | | | 72,588 | 77,558 | 75,387 | 73,174 | 76,676 | 75,726 | 75,545 |
| Trade Balance | | | | | | | | | | |
| Agricultural | 20,956 | 16,500 | 12,500 | 1,578 | 1,280 | 921 | 947 | 872 | 976 | 847 |
| Nonagricultural | -242,435 | | | -21,578 | -20,806 | -23,200 | -21,419 | -24,386 | -28,764 | -26,996 |
| Total | -221,479 | | | -20,000 | -19,526 | -22,279 | -20,472 | -23,514 | -27,788 | -26,149 |

F = Forecast. P = Projection. -- = Not available. 1. Based on fiscal year (Oct. 1-Sep. 30). 2. Domestic exports including Department of Defense shipments (F.A.S. Value). 3. Imports for consumption (customs value). Information contact: Mary Fant (202) 694-5272

Table 26—Indexes of Real Trade-Weighted Dollar Exchange Rates¹_

| | | Annual | | 1997 | | | 1998 | | | |
|-----------------------|-------|--------|-------|-------|---------|-------|-------|-------|-------|-------|
| _ | 1995 | 1996 | 1997 | Aug | Mar P | Apr P | May P | Jun P | Jul P | Aug P |
| | | | | | 1990=10 | 00 | - | | | |
| Total U.S. trade | 96.2 | 100.8 | 111.9 | 116.0 | 116.7 | 116.6 | 115.6 | 117.3 | 118.1 | 118.8 |
| Agricultural trade | | | | | | | | | | |
| U.S. markets | 97.3 | 101.0 | 109.6 | 109.3 | 117.1 | 117.3 | 118.2 | 120.7 | 120.6 | 123 |
| U.S. competitors | 97.4 | 98.7 | 109.1 | 113.3 | 116.5 | 115.9 | 115.2 | 117.2 | 117.2 | 117.2 |
| High-valued products | | | | | | | | | | |
| U.S. markets | 95.2 | 100.4 | 108.2 | 107.5 | 113.0 | 113.7 | 114.8 | 117.6 | 118.2 | 120.9 |
| U.S. competitors | 98.3 | 100.1 | 110.9 | 116.2 | 116.8 | 116.6 | 115.0 | 116.5 | 116.7 | 116.8 |
| Corn | | | | | | | | | | |
| U.S. markets | 89.1 | 96.4 | 107.1 | 105.6 | 116.3 | 117.3 | 118.9 | 122.5 | 122.6 | 125.1 |
| U.S. competitors | 88.8 | 90.1 | 97.4 | 100.7 | 100.8 | 101.4 | 100.7 | 101.4 | 102.1 | 102 |
| Soybeans | | | | | | | | | | |
| U.S. markets | 91.1 | 96.0 | 107.9 | 109.3 | 117.8 | 117.4 | 117.7 | 120.7 | 120.3 | 121.3 |
| U.S. competitors | 81.3 | 80.8 | 82.2 | 82.5 | 84.3 | 85.4 | 85.3 | 85.4 | 85.4 | 85.7 |
| Wheat | | | | | | | | | | |
| U.S. markets | 100.4 | 100.7 | 105.4 | 104.7 | 112.4 | 112.6 | 113.2 | 114.4 | 114.3 | 115.6 |
| U.S. competitors | 100.8 | 102.1 | 109.8 | 113.0 | 114.9 | 115.3 | 115.4 | 117.1 | 117.5 | 119.3 |
| Vegetables | | | | | | | | | | |
| U.S. markets | 102.2 | 105.6 | 112.4 | 112.0 | 117.6 | 118.4 | 119.6 | 122.1 | 122.9 | 126.1 |
| U.S. competitors | 99.1 | 100.5 | 112.0 | 117.0 | 117.8 | 117.3 | 115.5 | 117.0 | 117.1 | 117.1 |
| Red meats | | | | | | | | | | |
| U.S. markets | 84.8 | 93.3 | 100.4 | 98.2 | 107.6 | 108.6 | 110.3 | 114.1 | 114.3 | 117.4 |
| U.S. competitors | 96.3 | 98.0 | 107.9 | 112.5 | 114.0 | 114.2 | 113.3 | 114.9 | 114.9 | 115.5 |
| Fruits & fruit juices | | | | | | | | | | |
| U.S. markets | 96.2 | 101.3 | 111.3 | 111.2 | 116.4 | 117.4 | 118.5 | 121.2 | 122.1 | 124.9 |
| U.S. competitors | 98.2 | 98.2 | 107.2 | 111.5 | 113.2 | 113.1 | 111.7 | 113.3 | 113.9 | 114.2 |
| Cotton | | | | | | | | | | |
| U.S. markets | 93.6 | 95.5 | 105.7 | 104.4 | 128.8 | 125.1 | 128.1 | 133.3 | 131.0 | 129.7 |
| U.S. competitors | 104.6 | 101.6 | 103.0 | 104.0 | 105.6 | 107.1 | 106.9 | 108.2 | 108.2 | 109.3 |
| Poultry | | | | | | | | | | |
| U.S. markets | 107.3 | 102.8 | 111.9 | 110.7 | 113.3 | 113.3 | 114.0 | 115.9 | 116.1 | 119.6 |
| U.S. competitors | 93.9 | 95.7 | 107.3 | 112.2 | 113.4 | 112.5 | 111.0 | 112.7 | 112.7 | 112.7 |

P = Preliminary. 1. Real indexes adjust nominal exchange rates to avoid the distortion caused by different levels of inflation among countries. A higher value means the dollar has appreciated. "Total U.S. Trade" Index uses the Federal Reserve Board Index of trade-weighted value of the U.S. dollar against 10 major countries. Weights are based on relative importance of major U.S. customers and competitors in world markets during 1990-94. Indexes are subject to revision for up to one year due to delayed reporting by some countries. High-value products conform to FASís definition for consumer-oriented agricultural products. Data are available at http://mann77.mannlib.cornell.edu/data-sets/international/88021/. *Information contact: Tim Baxter (202) 694-5318 or Andy Jerardo (202) 694-5323*

Table 27—U.S. Agricultural Exports & Imports

| Table 27—U.S. Agricultural Ex | Calendar Ye | - | | Aug | С | alendar Yea | | | Aug | |
|--|------------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|--------------|--------------|
| | 1997 | 1998 F | 1999 P | 1997 | 1998 | 1997 | 1998 F | 1999 P | 1997 | 1998 |
| | | 10001 | 1,000 units_ | | | | | \$ million_ | | |
| EXPORTS | | | _ 1,000 ums_ | | | | | | | |
| Animals, live (no.) ¹ | 1,802 | | | 197 | 69 | 566 | | | 59 | 42 |
| Meats and preps., excl. poultry (mt) ² | 1,924 | 1,600 | 1,600 | 167 | 163 | 4,597 | 4,100 | 4,300 | 415 | 348 |
| Dairy products (mt) ¹ | 126 | | | 17 | 9 | 932 | 900 | 900 | 94 | 63 |
| Poultry meats (mt) | 2,585 | 2,700 | 2,800 | 235 | 221 | 2,423 | | | 210 | 191 |
| Fats, oils, and greases (mt) | 1,089 | 1,300 | 1,100 | 100 | 142 | 562 | | | 49 | 63 |
| Hides and skins, incl. furskins | | | | | | 1,651 | 1,400 | 1,400 | 140 | 96 |
| Cattle hides, whole (no.) | 20,113 | | | 1,822 | 1,556 | 1,187 | | | 103 | 74 |
| Mink pelts (no.) ¹ | 3,763 | | | 216 | 85 | 97 | | | 7 | 3 |
| Grains and feeds (mt) ³ Wheat (mt) ⁴ | 91,120 25,264 | 25,500 | 31,500 | 8,903 3,324 | 7,853 2,630 | 15,368 4,095 | 14,000 3,800 | 14,000 4,200 | 1,402 504 | 1,119 335 |
| Wheat flour (mt) | 508 | 500 | 500 | 32 | 40 | 138 | 3,000 | 4,200 | 10 | 10 |
| Rice (mt) | 2,508 | 3,100 | 2,700 | 147 | 216 | 932 | 1,100 | 1,000 | 53 | 72 |
| Feed grains, incl. products (mt) ⁵ | 49,091 | 43,800 | 45,900 | 4,280 | 3,838 | 6,219 | 5,000 | 4,700 | 505 | 398 |
| Feeds and fodders (mt) | 12,352 | 11,700 | 11,900 | 1,014 | 970 | 2,669 | 2,400 | 2,300 | 224 | 184 |
| Other grain products (mt) | 1,397 | | | 106 | 160 | 1,316 | | | 106 | 120 |
| Fruits, nuts, and preps. (mt) | 3,896 | | | 303 | 277 | 4,235 | 4,600 | 4,600 | 345 | 330 |
| Fruit juices, incl. | | | | | | | | | | |
| froz. (1,000 hectoliters) ¹ | 10,689 | | | 1,038 | 826 | 662 | | | 59 | 54 |
| Vegetables and preps. (mt) | 3,343 | | | 233 | 227 | 4,144 | 2,800 | 2,900 | 313 | 300 |
| Tobacco, unmanufactured (mt) | 222 | | | 9 | 13 | 1,553 | 1,400 | 1,400 | 69 | 97 |
| Cotton, excl. linters (mt) ⁶ | 1,568 | 1,600 | 1,100 | 100 | 88 | 2,682 | 2,600 | 1,700 | 166 | 136 |
| Seeds (mt) | 1,098 125 | | | 44 11 | 18 7 | 884 54 | 900 | 900 | 55 4 | 38 3 |
| Sugar, cane or beat (mt) ¹ | | | | | | | | | | |
| Oilseeds and products (mt) | 36,665 | 36,200 | 35,600 | 1,620 | 1,337 | 12,057 | 11,300 | 9,500 | 646 | 450 |
| Oilseeds (mt) Soybeans (mt) | 26,764 | 22 500 | | 1,078 | 774 | 8,326 | 6 200 | F 100 | 407 | 215 |
| Protein meal (mt) | 26,023 7,311 | 23,500 | 23,300 | 1,021 313 | 723 325 | 7,379 1,966 | 6,200 | 5,100 | 307 84 | 171 63 |
| Vegetable oils (mt) | 2,590 | | | 230 | 239 | 1,766 | | | 155 | 172 |
| Essential oils (mt) | 2,530 45 | | | 4 | 3 | 588 | | | 42 | 44 |
| Other | 361 | | | 28 | 24 | 4,287 | | | 358 | 330 |
| Total | 144,166 | 142,000 | 148,700 | 11,774 | 10,383 | 57,245 | 54,500 | 52,000 | 4,427 | 3,704 |
| IMPORTS | | | | | | | | | | |
| Animals, live (no.) ¹ | 5,298 | 4 000 | | 357 | 484 | 1,594 | 1,700 | 1,500 | 113 | 134 |
| Meats and preps., excl. poultry (mt) | 1,154 | 1,200 | 1,200 | 96 68 | 109 | 2,630 | 2,700 | 2,800 | 218 | 234 |
| Beef and veal (mt) Pork (mt) | 797 261 | | | 21 | 75 25 | 1,609 754 | | | 136 62 | 153 61 |
| Dairy products (mt) ¹ | 255 | | | 26 | 41 | 1,225 | 1,400 | 1,400 | 103 | 130 |
| Poultry and products ¹ | | | | | | 195 | | | 13 | 18 |
| Fats, oils, and greases (mt) | 80 | | | 7 | 7 | 60 | | | 5 | 5 |
| Hides and skins, incl. furskins (mt) | | | | | | 206 | | | 12 | 9 |
| Wool, unmanufactured (mt) | 44 | | | 2 | 2 | 154 | | | 8 | 7 |
| Grains and feeds (mt) | 7,535 | 7,900 | 7,900 | 614 | 685 | 2,963 | 2,900 | 3,000 | 242 | 239 |
| Fruits, nuts, and preps., | .,000 | .,000 | .,000 | 0 | 000 | 2,000 | 2,000 | 0,000 | | |
| excl. juices (mt) ⁷ | 7,252 | 7,700 | 8,300 | 513 | 560 | 3,837 | 4,800 | 5,100 | 268 | 296 |
| Bananas and plantains (mt) | 3,998 | 4,000 | 4,000 | 335 | 382 | 1,220 | 1,200 | 1,300 | 101 | 115 |
| Fruit juices (1,000 hectoliters) ¹ | 27,806 | 28,100 | 28,000 | 2,363 | 2,026 | 829 | | | 68 | 52 |
| Vegetables and preps. (mt) | 4,217 | 5,100 | 5,500 | 227 | 253 | 3,707 | 4,400 | 4,600 | 232 | 266 |
| Tobacco, unmanufactured (mt) | 294 | 200 | 300 | 29 | 23 | 1,089 | 1,100 | 1,100 | 105 | 76 |
| Cotton, unmanufactured (mt) | 17 | | | 1 | 0 | 20 | | | 1 | 0 |
| Seeds (mt) | 224 | | | 11 | 12 | 371 | | | 20 | 24 |
| Nursery stock and cut flowers ¹ | | | | | | 1,004 | 1,200 | 1,200 | 89 | 86 |
| Sugar, cane or beet (mt) | 2,975 | | | 283 | 168 | 984 | | | 104 | 71 |
| Oilseeds and products (mt) | 3,963 | 4,200 | 4,300 | 306 | 265 | 2,242 | 2,200 | 2,400 | 172 | 155 |
| Oilseeds (mt) | 1,035 | | | 56 | 35 | 384 | | | 20 | 14 |
| Protein meal (mt) | 1,048 | | | 94 155 | 92 | 188 | | | 17 | 13 |
| Vegetable oils (mt) | 1,880 | | | 155 | 139 | 1,670 | | | 134 | 129 |
| Beverages, excl. fruit | 24 202 | | | 2 200 | 2247 | 2 205 | | | 205 | 204 |
| juices (1,000 hectoliters) ¹ | 21,203 | | | 2,208 | 2,347 | 3,385 | | | 295 | 324 |
| Coffee, tea, cocoa, spices (mt) | 2,265 | 1 200 | 1 200 | 159 | 186 | 6,048 | 2 000 | 4 000 | 470 | 418 |
| Coffee, incl. products (mt) Cocoa beans and products (mt) | 1,180 767 | 1,200 1,000 | 1,200 1,000 | 87 47 | 93 62 | 3,886 1,471 | 3,900 1,800 | 4,000 1,900 | 312 102 | 232 123 |
| The state of the s | 1,068 | 1,100 | 1,200 | 91 | 103 | 1,229 | 1,100 | 1,300 | 102 | 83 |
| Rubber and allied drims (mt) | | | | | | | | | | |
| Rubber and allied gums (mt) Other | | | | 0. | | 2,528 | | | 208 | 228 |

F = Forecast. P = Projection. -- = Not available. Forecasts are fiscal years (October 1 through September 30) and are from Outlook for U.S. Agricultural *Exports.* 1997 data are from *Foreign Agricultural Trade of the U.S.* 1. Not included in total volume. 2. Forecast includes beef, pork, and variety meat. 3. Forecast includes pulses. 4. Forecast includes wheat flour. 5. Forecast excludes grain products. 6. Forecast includes linters. 7. Forecast includes juice. NOTE: Totals include transshipments through Canada, but transshipments are not distributed by commodity as previously.

NOTE: Adjusted transshipments through Canada for 1997 exports. Information Contact: Mary Fant (202) 694-5272

Table 28—U.S. Agricultural Exports by Region

| lable 28—U.S. Agricultural E | | egion ilendar year | | 1007 | | | 4000 | | | |
|---------------------------------------|-----------------|-----------------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------|
| | 1996 | 1997 | 1998F | 1997 Aug | Mar | Apr | 1998 May | Jun | Jul | Aug |
| | 1000 | 1007 | 10001 | / tug | \$ millio | | iviay | oun | oui | - rug |
| Region & country | | | | | Ψ | | | | | |
| WESTERN EUROPE | 9,702 | 9,728 | 9,000 | 618 | 712 | 601 | 547 | 517 | 459 | 456 |
| European Union ¹ | 9,322 | 9,105 | 8,600 | 550 | 683 | 577 | 525 | 501 | 435 | 439 |
| Belgium-Luxembourg | 749 | 678 | | 36 | 40 | 41 | 51 | 43 | 38 | 34 |
| France | 524 | 570 | | 35 | 40 | 25 | 30 | 25 | 25 | 25 |
| Germany | 1,489 | 1,355 | | 67 | 94 | 96 | 92 | 87 | 72 | 80 |
| Italy | 796 | 764 | | 48 | 83 | 44 | 43 | 40 | 21 | 26 |
| Netherlands | 2,218 | 2,040 | | 128 | 145 | 97 | 83 | 84 | 79 | 60 |
| United Kingdom | 1,233 | 1,312 | | 111 | 110 | 103 | 103 | 89 | 102 | 95 |
| Portugal | 291 | 254 | | 10 | 12 | 9 | 9 | 35 | 5 | 8 |
| Spain, incl. Canary Islands | 1,124 | 1,157 | | 45 | 97 | 83 | 47 | 48 | 38 | 55 |
| Other Western Europe | 380 | 624 | 400 | 67 | 29 | 25 | 23 | 16 | 24 | 17 |
| Switzerland | 211 | 517 | | 61 | 24 | 17 | 14 | 9 | 17 | 9 |
| EASTERN EUROPE | 439 | 284 | 300 | 19 | 24 | 21 | 22 | 31 | 26 | 16 |
| Poland | 232 | 121 | | 10 | 16 | 8 | 9 | 18 | 12 | 5 |
| Former Yugoslavia | 88 | 96 | | 5 2 | 2 2 | 7 | 4 | 6 | 6 | 6 |
| Romania | 57 | 18 | 4 400 | | | 2 | 4 | 4 | 2 | 3 |
| NEWLY INDEPENDENT STATES | 1,747 | 1,483 1,204 | 1,400 | 138 | 122 102 | 114 95 | 144 112 | 124 | 141 97 | 109 70 |
| Russia | 1,328 | | 1,100 | 99 | | | | 93 | | |
| ASIA ² West Asia (Mideast) | 28,560 2,513 | 25,705 2,612 | 19,700 2,400 | 1,929 217 | 2,069 230 | 1,829 185 | 1,588 161 | 1,567 171 | 1,493 174 | 1,523 164 |
| Turkey | 637 | 734 | 600 | 65 | 65 | 61 | 63 | 60 | 48 | 72 |
| Iraq | 3 | 82 | | 8 | 9 | 8 | 0 | 6 | 30 | 0 |
| Israel, incl. Gaza and W. Bank | 617 | 537 | | 37 | 37 | 25 | 34 | 19 | 29 | 24 |
| Saudi Arabia | 551 | 668 | 600 | 60 | 53 | 43 | 33 | 35 | 33 | 32 |
| South Asia | 653 | 760 | 700 | 81 | 32 | 29 | 35 | 33 | 31 | 79 |
| Bangladesh | 88 | 120 | | 16 | 12 | 9 | 6 | 6 | 9 | 6 |
| India | 113 | 155 | | 13 | 12 | 11 | 11 | 20 | 7 | 31 |
| Pakistan | 352 | 442 | | 45 | 6 | 2 | 5 | 6 | 8 | 30 |
| China | 2,092 | 1,613 | 1,500 | 59 | 182 | 102 | 45 | 63 | 57 | 68 |
| Japan | 11,704 | 10,536 | 9,500 | 822 | 871 | 898 | 753 | 711 | 681 | 626 |
| Southeast Asia | 3,270 | 2,988 | 2,200 | 197 | 187 | 164 | 147 | 163 | 183 | 181 |
| Indonesia | 852 | 772 | 500 | 39 | 26 | 28 | 14 | 45 | 50 | 50 |
| Philippines | 892 | 873 | 700 | 71 | 56 | 75 | 66 | 68 | 63 | 73 |
| Other East Asia | 8,327 | 7,196 | 5,800 | 552 | 567 | 451 | 446 | 427 | 366 | 405 |
| Korea, Rep. | 3,871 | 2,863 | 2,000 | 212 | 252 | 207 | 203 | 172 | 161 | 164 |
| Hong Kong Taiwan | 1,490 2,965 | 1,712 2,616 | 1,700 2,100 | 155 185 | 137 174 | 131 113 | 125 118 | 128 127 | 105 99 | 100 141 |
| AFRICA | 2,803 | 2,010 | | 289 | 181 | 94 | 104 | | | |
| North Africa | 2,677 1,986 | 2,262 1,569 | 2,400 1,700 | 209 | 108 | 94 44 | 67 | 145 73 | 174 122 | 185 125 |
| Morocco | 244 | 1,309 | 1,700 | 32 | 9 | 2 | 4 | 73 | 20 | 13 |
| Algeria | 322 | 315 | | 57 | 28 | 15 | 13 | 20 | 28 | 25 |
| Egypt | 1,319 | 964 | 1,100 | 113 | 61 | 25 | 43 | 44 | 73 | 84 |
| Sub-Sahara | 891 | 713 | 700 | 73 | 73 | 51 | 38 | 72 | 51 | 60 |
| Nigeria | 190 | 116 | | 14 | 8 | 7 | 11 | 19 | 20 | 13 |
| S. Africa | 309 | 222 | | 20 | 29 | 14 | 7 | 16 | 11 | 15 |
| LATIN AMERICA and CARIBBEAN | 10,486 | 10,417 | 11,500 | 842 | 985 | 924 | 842 | 878 | 970 | 822 |
| Brazil | 588 | 579 | 600 | 41 | 24 | 35 | 24 | 36 | 23 | 28 |
| Caribbean Islands | 1,419 | 1,501 | | 121 | 133 | 116 | 104 | 99 | 131 | 114 |
| Central America | 1,006 | 1,047 | | 83 | 89 | 113 | 97 | 98 | 94 | 81 |
| Colombia | 631 | 543 | | 38 | 56 | 53 | 49 | 67 | 38 | 41 |
| Mexico | 5,447 | 5,184 | 6,000 | 450 | 562 | 484 | 477 | 486 | 546 | 460 |
| Peru | 310 | 193 572 | 500 | 13 | 17 51 | 33 45 | 15 25 | 16 | 33 55 | 29 |
| Venezuela CANADA | 483 6,146 | 572 6,795 | 500 7,200 | 42 528 | 51 596 | 45 611 | 35 627 | 29 645 | 55 577 | 32 534 |
| OCEANIA | 489 | | 7,200 500 | | 596 42 | 42 | | | | 53 4 49 |
| | | 550 57.245 | | 63 | | | 46 2 029 | 46 2 071 | 38 | |
| TOTAL | 60,445 | 57,245 | 54,500 | 4,427 | 4,733 | 4,249 | 3,928 | 3,971 | 3,884 | 3,704 |
| Developed countries | 28,890 | 28,431 | | 2,094 | 2,281 | 2,197 | 2,014 | 1,964 | 1,794 | 1,707 |
| Developing countries | 27,681 | 25,687 | | 2,134 | 2,141 | 1,836 | 1,722 | 1,820 | 1,891 | 1,818 |
| Other countries | 3,873 | 3,128 | | 199 | 311 | 217 | 191 | 187 | 199 | 179 |

F = Forecast. -- = Not available. Based on fiscal year beginning October 1 and ending September 30. 1. Austria, Finland, and Sweden are included in the European Union. 2. Asia forecasts exclude West Asia (Mideast). NOTE: Adjusted for transhipments through Canada, but transhipments are not distributed as previously for 1998. *Information contact: Mary Fant (202) 694-5272*

Farm Income

Table 29—Value Added to the U.S. Economy by the Agricultural Sector_

| | | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 F |
|-------|---|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | | | | \$ bill | ion | | | | |
| | Final crop output | 81.5 | 83.3 | 81.0 | 89.0 | 82.4 | 100.3 | 95.8 | 115.6 | 112.5 | 104.3 |
| | Food grains | 8.2 | 7.5 | 7.3 | 8.5 | 8.2 | 9.5 | 10.4 | 10.7 | 10.6 | 8.6 |
| | Feed crops | 17.0 | 18.7 | 19.3 | 20.1 | 20.2 | 20.4 | 24.6 | 27.3 | 27.6 | 23.5 |
| | Cotton | 5.0 | 5.5 | 5.2 | 5.2 | 5.2 | 6.7 | 6.9 | 7.0 | 6.5 | 5.9 |
| | Oil crops | 11.9 | 12.3 | 12.7 | 13.3 | 13.2 | 14.7 | 15.5 | 16.4 | 19.9 | 17.5 |
| | Tobacco Fruits and tree nuts | 2.4 9.2 | 2.7 9.4 | 2.9 9.9 | 3.0 10.2 | 2.9 10.3 | 2.7 10.3 | 2.5 11.1 | 2.8 11.9 | 2.9 12.8 | 3.1 13.1 |
| | Vegetables | 11.6 | 11.5 | 11.6 | 11.9 | 13.5 | 13.9 | 14.9 | 14.6 | 15.1 | 16.0 |
| | All other crops | 11.6 | 12.8 | 13.1 | 13.7 | 14.0 | 14.9 | 15.2 | 15.9 | 16.7 | 16.6 |
| | Home consumption | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| | Value of inventory adjustment | 4.5 | 2.8 | -1.2 | 3.2 | -5.3 | 7.2 | -5.4 | 8.9 | 0.3 | 0.0 |
| | Final animal output | 83.8 | 90.2 | 87.3 | 87.1 | 91.7 | 89.7 | 87.6 | 92.2 | 96.2 | 93.5 |
| | Meat animals | 46.7 | 51.2 | 50.1 | 47.7 | 50.8 | 46.8 | 44.8 | 44.4 | 49.9 | 44.0 |
| | Dairy products | 19.4 | 20.2 | 18.0 | 19.7 | 19.2 | 19.9 | 19.9 | 22.8 | 21.0 | 23.7 |
| | Poultry and eggs | 15.4 | 15.3 | 15.2 | 15.5 | 17.3 | 18.4 | 19.1 | 22.3 | 22.2 | 22.8 |
| | Miscellaneous livestock Home consumption | 2.5 0.5 | 2.5 0.5 | 2.5 0.5 | 2.6 0.5 | 2.8 0.5 | 3.0 0.4 | 3.2 0.4 | 3.4 0.3 | 3.5 0.4 | 3.5 0.4 |
| | Value of inventory adjustment ¹ | -0.7 | 0.4 | 1.0 | 1.0 | 1.1 | 1.1 | 0.4 | -1.1 | -0.7 | -0.9 |
| | Services and forestry | 15.8 | 15.3 | 15.4 | 15.2 | 16.6 | 17.9 | 19.4 | 20.7 | 22.1 | 22.4 |
| | Machine hire and customwork | 1.7 | 1.8 | 1.8 | 1.8 | 1.9 | 2.1 | 1.9 | 2.2 | 2.6 | 2.6 |
| | Forest products sold | 2.0 | 1.8 | 1.8 | 2.2 | 2.6 | 2.7 | 2.9 | 2.8 | 2.8 | 2.6 |
| | Other farm income | 4.9 | 4.5 | 4.7 | 4.2 | 4.6 | 4.4 | 5.2 | 5.9 | 6.3 | 6.3 |
| | Gross imputed rental value of farm dwellings | 7.2 | 7.2 | 7.2 | 7.0 | 7.6 | 8.7 | 9.3 | 9.8 | 10.3 | 11.0 |
| | Final agricultural sector output ² | 181.0 | 188.7 | 183.7 | 191.3 | 190.7 | 207.9 | 202.8 | 228.5 | 230.8 | 220.2 |
| Minus | Intermediate consumption outlays: | 88.7 | 92.9 | 94.6 | 93.5 | 100.6 | 104.9 | 109.0 | 112.9 | 118.6 | 115.9 |
| | Farm origin | 38.1 | 39.5 | 38.6 | 38.6 | 41.2 | 41.3 | 41.6 | 42.7 | 45.7 | 43.2 |
| | Feed purchased | 20.7 | 20.4 | 19.3 | 20.1 | 21.4 | 22.6 | 23.8 | 25.2 | 25.2 | 24.0 |
| | Livestock and poultry purchased | 12.9 | 14.6 | 14.1 | 13.6 | 14.6 | 13.3 | 12.3 | 11.2 | 13.8 | 12.5 |
| | Seed purchased | 4.4 | 4.5 | 5.1 | 4.9 | 5.2 | 5.4 | 5.5 | 6.2 | 6.7 | 6.7 |
| | Manufactured inputs | 20.6 | 22.0 | 23.2 | 22.7 | 23.1 | 24.4 | 26.2 | 28.6 | 29.0 | 28.7 |
| | Fertilizers and lime | 8.2 | 8.2 | 8.7 | 8.3 | 8.4 | 9.2 | 10.0 | 10.9 | 10.9 | 10.9 |
| | Pesticides | 5.0 | 5.4 | 6.3 | 6.5 | 6.7 | 7.2 | 7.7 | 8.5 | 8.8 | 8.9 |
| | Petroleum fuel and oils | 4.8 | 5.8 | 5.6 | 5.3 | 5.3 | 5.3 | 5.4 | 6.0 | 6.2 | 6.0 |
| | Electricity | 2.6 | 2.6 | 2.6 | 2.6 | 2.7 | 2.7 | 3.0 | 3.2 | 3.0 | 3.0 |
| | Other intermediate expenses | 30.0 | 31.4 | 32.8 | 32.2 | 36.2 | 39.2 | 41.2 | 41.5 | 43.9 | 44.0 |
| | Repair and maintenance of capital items | 8.4 | 8.6 | 8.6 | 8.5 | 9.2 | 9.1 | 9.5 | 10.3 | 10.4 | 10.6 |
| | Machine hire and customwork Marketing, storage, and transportation | 3.4 4.2 | 3.6 4.2 | 3.5 4.7 | 3.8 4.5 | 4.4 5.6 | 4.8 6.8 | 4.8 7.2 | 4.7 6.9 | 4.8 7.1 | 4.8 7.1 |
| | Contract labor | 1.3 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 2.0 | 2.1 | 2.6 | 2.7 |
| | Miscellaneous expenses | 12.7 | 13.5 | 14.3 | 13.7 | 15.2 | 16.7 | 17.8 | 17.5 | 19.0 | 18.8 |
| Plus | Net government transactions: | 5.1 | 3.1 | 2.1 | 2.7 | 6.9 | 1.0 | 0.1 | 0.1 | 0.1 | 4.7 |
| | + Direct government payments | 10.9 | 9.3 | 8.2 | 9.2 | 13.4 | 7.9 | 7.3 | 7.3 | 7.5 | 12.2 |
| | Motor vehicle registration and licensing fees | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 0.5 | 0.5 |
| | - Property taxes | 5.5 | 5.9 | 5.8 | 6.1 | 6.2 | 6.5 | 6.7 | 6.8 | 7.0 | 7.0 |
| | Gross value added | 97.4 | 98.9 | 91.2 | 100.5 | 97.0 | 104.0 | 93.9 | 115.7 | 112.3 | 109.0 |
| Minus | Capital consumption | 18.1 | 18.1 | 18.2 | 18.3 | 18.4 | 18.7 | 19.1 | 19.4 | 19.5 | 19.6 |
| | Net value added ² | 79.3 | 80.7 | 73.0 | 82.1 | 78.6 | 85.3 | 74.8 | 96.3 | 92.8 | 89.4 |
| Minus | Factor payments: | 34.0 | 36.0 | 34.4 | 34.6 | 35.1 | 37.0 | 38.8 | 42.9 | 42.9 | 43.7 |
| | Employee compensation (total hired labor) | 10.7 | 12.5 | 12.3 | 12.3 | 13.2 | 13.5 | 14.3 | 15.4 | 16.0 | 16.8 |
| | Net rent received by nonoperator landlords | 9.4 | 10.0 | 9.9 | 11.2 | 11.0 | 11.8 | 11.8 | 14.3 | 13.2 | 12.8 |
| | Real estate and non-real estate interest | 13.9 | 13.4 | 12.1 | 11.1 | 10.8 | 11.7 | 12.7 | 13.2 | 13.7 | 14.1 |
| | Net farm income ² | 45.3 | 44.7 | 38.6 | 47.5 | 43.6 | 48.3 | 36.0 | 53.4 | 49.8 | 45.7 |

Values in last two columns are preliminary or forecast. 1. A positive value of inventory change represents current-year production not sold by December 1. A negative value is an offset to production from prior years included in current-year sales. 2. Final sector output is the gross value of commodities and services produced within a year. Net value added is the sector's contribution to the National economy and is the sum of income from production earned by all factors of production. Net farm income is the farm operators' share of income from the sector's production activities. The concept presented is consistent with that employed by the Organization for Economic Cooperation and Development/Information contact: Roger Strickland (202)694-5592 or rogers@econ.ag.gov

Table 30—Farm Income Statistics

| | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998F |
|-------------------------------------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|
| | | | | | \$ billio | n | | | | |
| Cash Income statement: | | | | | | | | | | |
| 1. Cash receipts | 160.8 | 169.5 | 167.9 | 171.4 | 177.8 | 181.2 | 188.1 | 199.6 | 208.7 | 198.2 |
| Crops ¹ | 76.9 | 80.3 | 82.1 | 85.7 | 87.6 | 93.1 | 101.1 | 106.6 | 112.1 | 104.2 |
| Livestock | 83.9 | 89.2 | 85.8 | 85.6 | 90.2 | 88.2 | 87.0 | 93.0 | 96.6 | 94.0 |
| 2. Direct Government payments | 10.9 | 9.3 | 8.2 | 9.2 | 13.4 | 7.9 | 7.3 | 7.3 | 7.5 | 12.2 |
| 3. Farm-related income ² | 8.6 | 8.1 | 8.3 | 8.2 | 9.0 | 9.2 | 10.1 | 10.9 | 11.8 | 11.4 |
| 4. Gross cash income (1+2+3) | 180.3 | 186.9 | 184.3 | 188.7 | 200.2 | 198.3 | 205.5 | 217.8 | 228.0 | 221.8 |
| 5. Cash expenses ³ | 127.5 | 134.1 | 134.0 | 133.6 | 141.2 | 147.6 | 153.6 | 161.4 | 167.2 | 165.5 |
| 6. Net cash income (4-5) | 52.8 | 52.8 | 50.4 | 55.1 | 59.0 | 50.7 | 51.8 | 56.4 | 60.8 | 56.4 |
| Farm income statement: | | | | | | | | | | |
| 7. Gross cash income (4) | 180.3 | 186.9 | 184.3 | 188.7 | 200.2 | 198.3 | 205.5 | 217.8 | 228.0 | 221.8 |
| 8. Noncash income ⁴ | 7.9 | 7.9 | 7.8 | 7.6 | 8.1 | 9.2 | 9.8 | 10.2 | 10.7 | 11.4 |
| 9. Value of inventory adjustment | 3.8 | 3.3 | -0.2 | 4.2 | -4.2 | 8.3 | -5.1 | 7.8 | -0.4 | -0.8 |
| 10. Gross farm income (7+8+9) | 191.9 | 198.0 | 191.9 | 200.5 | 204.1 | 215.8 | 210.1 | 235.8 | 238.3 | 232.4 |
| 11. Total production expenses | 146.7 | 153.3 | 153.3 | 152.9 | 160.5 | 167.5 | 174.1 | 182.4 | 188.4 | 186.7 |
| 12. Net farm income (10-11) | 45.3 | 44.7 | 38.6 | 47.5 | 43.6 | 48.3 | 36.0 | 53.4 | 49.8 | 45.7 |

Values for last 2 years are preliminary or forecasts. Numbers in parentheses indicate the combination of items required to calculate an item. Totals may not add due to rounding. 1. Includes commodities placed under CCC loans and profits made on loans redeemed. 2. Income from custom labor, machine hire, recreational activities, forest product sales, and other farm sources. 3. Excludes depreciation and perquisites to hired labor. Excludes farm operator dwellings. 4. Value of farm products consumed on farms where produced plus the imputed rental value of farm dwellings.

Information contact: Roger Strickland (202) 694-5582 or rogers@econ.ag.gov

Table 31—Average Income to Farm Operator Households¹_____

| 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997P | 1998F |
|--------|--|--|--|---|---|---|---|
| | | | \$ per f | arm | | | |
| 10,678 | 11,320 | 11,248 | 11,389 | 11,218 | 13,502 | 12,460 | |
| 5,127 | 5,187 | 6,219 | 6,466 | 6,795 | 6,906 | 6,578 | |
| 441 | 216 | 454 | 425 | 522 | 531 | 513 | |
| 323 | 360 | 534 | 701 | 769 | 672 | 568 | |
| 1,093 | 961 | 872 | 815 | 649 | 1,094 | *1,429 | |
| | | \$ per | farm opera | tor househ | ola | | |
| 3,694 | 4,596 | 3,168 | 2,981 | 2,484 | 4,300 | 3,373 | |
| 441 | 216 | 454 | 425 | 522 | 531 | 513 | |
| 323 | 360 | | | 1,053 | 1,178 | 945 | |
| 4,458 | 5,172 | 3,623 | 3,407 | 4,059 | 6,009 | 4,831 | |
| 1,352 | 2,008 | 1,192 | 970 | 661 | 1,898 | 1,158 | |
| 5,810 | 7,180 | 4,815 | 4,376 | 4,720 | 7,906 | 5,989 | 5,241 |
| 31,638 | 35,731 | 35,408 | 38,092 | 39,671 | 42,455 | 46,358 | 45,060 |
| 37,447 | 42,911 | 40,223 | 42,469 | 44,392 | 50,361 | 52,347 | 49,623 |
| | | 9 | per U.S. h | ousehola | | | |
| 37,922 | 38,840 | 41,428 | 43,133 | 44,938 | 47,123 | 49,692 | |
| | | | Perce | ent | | | |
| | | | | | | | |
| 98.7 | 110.5 | 97.1 | 98.5 | 98.8 | 106.9 | 105.3 | |
| | | | | | | | |
| 15.5 | 16.7 | 12.0 | 10.3 | 10.6 | 15.7 | 11.4 | |
| | 10,678 5,127 441 323 1,093 3,694 441 323 4,458 1,352 5,810 31,638 37,447 37,922 | 1991 1992 10,678 11,320 5,127 5,187 441 216 323 360 1,093 961 3,694 4,596 441 216 323 360 4,458 5,172 1,352 2,008 5,810 7,180 31,638 35,731 37,447 42,911 37,922 38,840 | 1991 1992 1993 10,678 11,320 11,248 5,127 5,187 6,219 441 216 454 323 360 534 1,093 961 872 \$per 3,694 4,596 3,168 441 216 454 323 360 4,458 5,172 3,623 1,352 2,008 1,192 5,810 7,180 4,815 31,638 35,731 35,408 37,447 42,911 40,223 98.7 110.5 97.1 | \$\sqrt{991}\$ \text{1992}\$ \text{1993}\$ \text{1994}\$ \\ \$\sqrt{per ft}\$ \tag{10,678} \text{11,320} \text{11,248} \text{11,389}\$ \\ 5,127 \text{5,187} \text{6,219} \text{6,466}\$ \\ 441 \text{216} \text{454} \text{425}\$ \\ 323 \text{360} \text{534} \text{701}\$ \\ 1,093 \text{961} \text{872} \text{815}\$ \\ \$\sqrt{per farm operators}\$ \\ 3,694 \text{4,596} \text{3,168} \text{2,981}\$ \\ 441 \text{216} \text{454} \text{425}\$ \\ 323 \text{360} | 1991 1992 1993 1994 1995 \$ per farm 10,678 11,320 11,248 11,389 11,218 5,127 5,187 6,219 6,466 6,795 441 216 454 425 522 323 360 534 701 769 1,093 961 872 815 649 \$ per farm operator househ 3,694 4,596 3,168 2,981 2,484 441 216 454 425 522 323 360 1,053 4,458 5,172 3,623 3,407 4,059 1,352 2,008 1,192 970 661 5,810 7,180 4,815 4,376 4,720 31,638 35,731 35,408 38,092 39,671 37,922 38,840 41,428 43,133 44,938 Percent <td< td=""><td> 1991 1992 1993 1994 1995 1996 </td><td> 1991 1992 1993 1994 1995 1996 1997P </td></td<> | 1991 1992 1993 1994 1995 1996 | 1991 1992 1993 1994 1995 1996 1997P |

-- = Not available. Values in the last three years preliminary or forecast. 1. This table derives farm operator household income estimates from the Agricultural Resource Management Study (ARMS) that are consistent with Current Population Survey (CPS) methodology. The CPS, conducted by the Bureau of the Census, is the source of official U.S. household income statistics. The CPS defines income to include any income received as cash. The CPS definition departs from a strictly cash concept by including depreciation as an expense that farm operators and other self-employed people subtract from gross receipts when reporting net cash income. 2. A component of farm-sector income. Excludes income of contractors and landlords as well as the income of farms organized as nonfamily corporations or cooperatives, and farms run by a hired manager. Includes income of farms organized as proprietorships, partnerships, and family corporations. 3. Consistent with the CPS definition of self-employed income, reported depreciation expenses are subtracted from net cash farm income. The ARMS collects data on farm business depreciation used for tax purposes. 4. Wages paid to the operator are excluded because they are not shared among other households that have claims on farm business income. These wages are added to the operator householdis adjusted farm business income to obtain farm self-employment income. 5. Gross rental income is excluded because net rental income from farm operation is added below to income received by the household. 6. More than one household may have a claim on the income of a farm business. On average, 1.1 households share the income of a farm business. 7. Includes net rental income from the farm business. Also includes net rental income from farmland held by household members that is not part of the farm business. In 1991 and 1992, gross rental income from the farm business was used because net rental income data were not collected. In 1993 and 1994, net rental income data were collected as part of off-farm income. 8. Wages paid to other operator household members by the farm business, and net income from a farm business other than the one surveyed. In 1996, also includes the value of commodities provided to household members for farm work. 9. Wages, salaries, net income from nonfarm businesses, interest, dividends, transfer payments, etc. In 1993 and 1994, also includes net rental income from farmland. 10. From the CPS. Sources: U.S. Department of Agriculture, Economic Research Service, 1991, 1992, 1993, 1994, and 1995 Farm Costs and Returns Survey (FCRS), and 1996 Agricultural Resource Management Study for farm operator household data. U.S. Department of Commerce, Bureau of the Census Current Population Survey (PCS), for average household income. Information contact: Bob Hoppe (202) 694-5572 or rhoppe@econ.ag.gov

Table 32—Balance Sheet of the U.S. Farming Sector_____

| | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998F |
|------------------------------------|-------|-------|-------|-------|-----------|-------|-------|---------|---------|---------|
| | | | | | \$ billio | n | | | | |
| Farm assets | 814.4 | 841.5 | 844.9 | 870.3 | 906.4 | 938.3 | 981.9 | 1,033.9 | 1,088.8 | 1,129.5 |
| Real estate | 600.8 | 620.0 | 625.5 | 642.8 | 673.7 | 706.9 | 755.7 | 799.5 | 849.2 | 895.6 |
| Livestock and poultry ¹ | 66.2 | 70.9 | 68.1 | 71.0 | 72.8 | 67.9 | 57.8 | 60.3 | 66.8 | 57.0 |
| Machinery and motor | | | | | | | | | | |
| vehicles | 84.1 | 86.3 | 85.9 | 85.4 | 86.5 | 87.5 | 88.5 | 88.9 | 88.1 | 91.0 |
| Crops stored ^{2,3} | 23.9 | 23.2 | 22.2 | 24.2 | 23.3 | 23.3 | 27.4 | 31.7 | 29.9 | 30.0 |
| Purchased inputs | 2.6 | 2.8 | 2.6 | 3.9 | 3.8 | 5.0 | 3.4 | 4.4 | 5.1 | 5.0 |
| Financial assets | 36.8 | 38.3 | 40.5 | 43.1 | 46.3 | 47.6 | 49.1 | 49.1 | 49.7 | 50.0 |
| Total farm debt | 137.9 | 138.0 | 139.2 | 139.1 | 142.0 | 146.8 | 150.8 | 156.1 | 165.4 | 172.2 |
| Real estate debt ³ | 76.0 | 74.7 | 74.9 | 75.4 | 76.0 | 77.7 | 79.3 | 81.7 | 85.4 | 88.7 |
| Non-real estate debt ⁴ | 61.9 | 63.2 | 64.3 | 63.6 | 65.9 | 69.1 | 71.5 | 74.4 | 80.1 | 83.5 |
| Total farm equity | 676.6 | 703.5 | 705.7 | 731.3 | 764.4 | 791.5 | 831.1 | 877.8 | 923.4 | 957.2 |
| | | | | | Percer | nt | | | | |
| Selected ratios | | | | | | | | | | |
| Debt to assets | 16.9 | 16.4 | 16.5 | 16.0 | 15.7 | 15.6 | 15.4 | 15.1 | 15.2 | 15.2 |
| Debt to equity | 20.3 | 19.6 | 19.7 | 19.0 | 20.4 | 19.0 | 18.6 | 18.5 | 18.1 | 17.8 |

Values in the last two columns are forecasts. 1. As of December 31. 2. Non-CCC crops held on farms plus value above loan rates for crops held under CCC. 3. Includes CCC storage and drying facilities loans, but excludes debt on operator dwellings. 4. Excludes debt for nonfarm purposes. Information contact: Ken Erickson (202) 694-5565 or erickson@econ.ag.gov

Table 33—Cash Receipts from Farming_____

| | | Annual | | 1997 | | | 1998 | 3 | | |
|------------------------------|---------|---------|---------|--------|-----------|--------|--------|--------|--------|--------|
| | 1995 | 1996 | 1997 | Jul | Feb | Mar | Apr | May | Jun | Jul |
| | | | • | • | \$ millio | on | | | | |
| Commodity sales ¹ | 188,108 | 199,580 | 208,665 | 15,634 | 13,980 | 15,818 | 14,338 | 13,917 | 14,715 | 15,168 |
| Livestock and products | 87,018 | 93,005 | 96,568 | 7,906 | 7,351 | 8,731 | 7,467 | 7,802 | 8,337 | 7,774 |
| Meat animals | 44,828 | 44,414 | 49,925 | 3,768 | 3,889 | 4,852 | 3,556 | 3,997 | 4,411 | 3,451 |
| Dairy products | 19,894 | 22,820 | 20,989 | 1,624 | 1,810 | 1,989 | 1,913 | 1,903 | 1,883 | 1,860 |
| Poultry and eggs | 19,070 | 22,345 | 22,183 | 1,954 | 1,434 | 1,655 | 1,781 | 1,674 | 1,772 | 1,903 |
| Other | 3,227 | 3,425 | 3,471 | 560 | 218 | 236 | 217 | 228 | 271 | 560 |
| Crops | 101,090 | 106,575 | 112,097 | 7,728 | 6,629 | 7,087 | 6,871 | 6,115 | 6,378 | 7,394 |
| Food grains | 10,417 | 10,741 | 10,603 | 1,567 | 520 | 532 | 376 | 362 | 1,017 | 1,517 |
| Feed crops | 24,581 | 27,265 | 27,638 | 1,792 | 1,912 | 1,768 | 1,256 | 1,115 | 1,355 | 1,482 |
| Cotton (lint and seed) | 6,851 | 6,983 | 6,515 | 97 | 494 | 283 | 301 | 274 | 180 | 93 |
| Tobacco | 2,548 | 2,796 | 2,886 | 86 | 120 | 43 | 61 | 0 | 0 | 66 |
| Oil-bearing crops | 15,496 | 16,362 | 19,911 | 748 | 1,245 | 1,214 | 879 | 694 | 621 | 777 |
| Vegetables and melons | 14,913 | 14,561 | 15,086 | 1,404 | 845 | 1,218 | 1,414 | 1,550 | 1,399 | 1,464 |
| Fruits and tree nuts | 11,119 | 11,933 | 12,790 | 1,088 | 511 | 616 | 757 | 737 | 914 | 1,048 |
| Other | 15,165 | 15,935 | 16,668 | 946 | 983 | 1,414 | 1,826 | 1,384 | 891 | 946 |
| Government payments | 7,279 | 7,340 | 7,496 | 25 | 93 | 52 | 75 | 80 | 89 | 167 |
| Total | 195,388 | 206,919 | 216,160 | 15,659 | 14,073 | 15,871 | 14,413 | 13,997 | 14,804 | 15,335 |

Annual values for the most recent year and monthly values for the current year are preliminary. 1. Sales of farm products include receipts from commodities placed under nonrecourse CCC loans, plus additional gains realized on redemptions during the period. *Information contact:*Roger Strickland (202) 694-5592. To receive current monthly cash receipts, contact Larry Traub at (202)694-5593 or Itraub@econ.ag.gov.

Table 34—Cash Receipts from Farm Marketings, by State_____

| | L | ivestock and | I products | | | Crop | os ¹ | | | Tota | al ¹ | |
|------------------|--------|--------------|------------|-----------|----------|------------------|-----------------|----------|---------|---------|-----------------|-----------|
| Region and State | 4000 | 1007 | June | July | 4000 | | June | July | 4000 | | June | July |
| | 1996 | 1997 | 1998 | 1998 | 1996 | 1997 \$ mill. | 1998 | 1998 | 1996 | 1997 | 1998 | 1998 |
| NORTH ATLANTIC | | | | | | Ş IIIII | 1011 | | | | | |
| Maine | 262 | 258 | 18 | 18 | 220 | 228 | 6 | 16 | 482 | 486 | 24 | 35 |
| New Hampshire | 72 | 69 | 5 | 5 | 97 | 97 | 4 | 6 | 169 | 166 | 9 | 11 |
| Vermont | 433 | 416 | 38 | 37 | 99 | 97 | 4 | 16 | 532 | 513 | 42 | 52 |
| Massachusetts | 110 | 102 | 9 | 8 | 392 | 430 | 24 | 28 | 502 | 532 | 33 | 36 |
| | | | | | | | | | | | | |
| Rhode Island | 11 | 9 | 1 | 1 | 73 | 74 | 3 | 5 | 84 | 83 | 4 | 6 |
| Connecticut | 236 | 218 | 16 | 17 | 253 | 279 | 11 | 14 | 489 | 496 | 27 | 31 |
| New York | 2,050 | 1,859 | 165 | 165 | 981 | 1,037 | 52 52 | 85 | 3,031 | 2,896 | 217 | 250 |
| New Jersey | 196 | 180 | 15 239 | 15 222 | 607 | 596 | 53 80 | 72 82 | 803 | 776 | 67 319 | 87 304 |
| Pennsylvania | 2,865 | 2,789 | 239 | 222 | 1,283 | 1,339 | 00 | 02 | 4,148 | 4,128 | 319 | 304 |
| NORTH CENTRAL | | | | | | | | | | | | |
| Ohio | 1,943 | 1,869 | 148 | 157 | 2,853 | 3,476 | 134 | 240 | 4,796 | 5,345 | 282 | 397 |
| Indiana | 1,913 | 1,896 | 153 | 133 | 3,620 | 3,610 | 118 | 199 | 5,533 | 5,506 | 271 | 332 |
| Illinois | 2,063 | 1,937 | 162 | 130 | 6,453 | 7,339 | 265 | 362 | 8,516 | 9,276 | 427 | 492 |
| Michigan | 1,450 | 1,352 | 116 | 106 | 2,154 | 2,236 | 113 | 173 | 3,604 | 3,588 | 229 | 280 |
| Wisconsin | 4,299 | 4,070 | 393 | 391 | 1,732 | 1,686 | 79 | 106 | 6,030 | 5,756 | 473 | 497 |
| Minnesota | 4,147 | 4,054 | 357 | 325 | 4,654 | 4,101 | 222 | 247 | 8,800 | 8,155 | 579 | 572 |
| Iowa | 5,451 | 5,530 | 450 | 317 | 6,698 | 7,311 | 323 | 439 | 12,148 | 12,841 | 773 | 756 |
| Missouri | 2,463 | 2,795 | 201 | 177 | 2,409 | 2,768 | 111 | 145 | 4,872 | 5,564 | 312 | 323 |
| North Dakota | 539 | 611 | 55 | 51 | 2,891 | 2,702 | 123 | 119 | 3,429 | 3,313 | 178 | 170 |
| South Dakota | 1,634 | 1,820 | 162 | 138 | 1,875 | 2,417 | 104 | 143 | 3,509 | 4,237 | 266 | 282 |
| Nebraska | 5,277 | 5,542 | 488 | 395 | 3,933 | 4,550 | 154 | 210 | 9,211 | 10,092 | 642 | 604 |
| Kansas | 4,541 | 5,017 | 433 | 326 | 2,978 | 3,985 | 224 | 526 | 7,519 | 9,001 | 658 | 852 |
| | 1,011 | 0,011 | 100 | 020 | 2,010 | 0,000 | | 020 | 7,010 | 0,001 | 000 | 002 |
| SOUTHERN | 570 | 570 | | 50 | 400 | 474 | 40 | 40 | 750 | 740 | 00 | 74 |
| Delaware | 573 | 573 | 55 | 56 | 180 | 174 | 13 | 16 | 753 | 748 | 68 | 71 |
| Maryland | 901 | 915 | 84 | 84 | 639 | 623 | 38 | 65 | 1,540 | 1,538 | 122 | 149 |
| Virginia | 1,477 | 1,538 | 133 | 133 | 907 | 863 | 48 | 80 | 2,384 | 2,401 | 181 | 213 |
| West Virginia | 309 | 324 | 26 | 27 | 79 | 71 | 6 | 7 | 388 | 394 | 33 | 34 |
| North Carolina | 4,431 | 4,694 | 337 | 323 | 3,466 | 3,608 | 194 | 192 | 7,897 | 8,302 | 531 | 514 |
| South Carolina | 748 | 797 | 56 | 59 | 869 | 898 | 69 | 65 | 1,616 | 1,695 | 124 | 124 |
| Georgia | 3,279 | 3,442 | 285 | 307 | 2,452 | 2,445 | 219 | 128 | 5,731 | 5,887 | 504 | 435 |
| Florida | 1,206 | 1,265 | 100 | 98 | 5,038 | 4,978 | 379 | 217 | 6,244 | 6,243 | 479 | 316 |
| Kentucky | 1,727 | 1,978 | 139 | 402 | 1,842 | 1,655 | 54 | 50 | 3,569 | 3,633 | 193 | 453 |
| Tennessee | 999 | 1,005 | 98 | 82 | 1,406 | 1,287 | 69 | 50 | 2,405 | 2,292 | 167 | 132 |
| Alabama | 2,362 | 2,431 | 184 | 202 | 808 | 796 | 52 | 40 | 3,170 | 3,227 | 237 | 242 |
| Mississippi | 1,934 | 2,006 | 156 | 167 | 1,504 | 1,470 | 63 | 45 | 3,438 | 3,476 | 219 | 213 |
| Arkansas | 3,374 | 3,416 | 295 | 289 | 2,470 | 2,446 | 173 | 108 | 5,844 | 5,862 | 468 | 397 |
| Louisiana | 688 | 659 | 64 | 53 | 1,641 | 1,481 | 43 | 40 | 2,328 | 2,140 | 107 | 93 |
| Oklahoma | 2,414 | 3,061 | 284 | 246 | 1,105 | 1,308 | 234 | 171 | 3,519 | 4,369 | 518 | 417 |
| Texas | 7,821 | 8,184 | 787 | 581 | 5,139 | 5,277 | 352 | 417 | 12,960 | 13,461 | 1,139 | 998 |
| WESTERN | | | | | | | | | | | | |
| Montana | 797 | 991 | 81 | 76 | 1,203 | 1,072 | 49 | 51 | 1,999 | 2,063 | 130 | 127 |
| Idaho | 1,330 | 1,389 | 163 | 148 | 2,043 | 1,926 | 80 | 78 | 3,372 | 3,315 | 243 | 226 |
| Wyoming | 478 | 646 | 44 | 70 | 189 | 199 | 6 | 8 | 667 | 845 | 50 | 78 |
| Colorado | 2,763 | 3,012 | 289 | 230 | 1,362 | 1,388 | 65 | 132 | 4,125 | 4,399 | 354 | 362 |
| New Mexico | 1,198 | 1,354 | 149 | 130 | 506 | 562 | 68 | 77 | 1,704 | 1,915 | 217 | 207 |
| Arizona | 840 | 888 | 77 | 56 | 1,306 | 1,257 | 97 | 61 | 2,145 | 2,145 | 174 | 117 |
| Utah | 644 | 715 | 59 | 63 | 228 | 238 | 14 | 21 | 872 | 953 | 73 | 84 |
| Nevada | 154 | 180 | 14 | 12 | 132 | 130 | 13 | 18 | 287 | 310 | 27 | 30 |
| Washington | 1,665 | 1,604 | 141 | 135 | 3,833 | 3,778 | 252 | 295 | 5,497 | 5,382 | 393 | 430 |
| Oregon | 658 | 740 | 75 | 74 | 2,246 | 2,373 | 141 | 293 | 2,904 | 3,113 | 216 | 282 |
| California | 6,212 | 6,294 | 529 | 532 | 17,285 | 18,995 | 1,344 | 1,481 | 23,497 | 25,289 | 1,873 | 2,012 |
| Alaska | 6 | 6 | 1 | 1 | 23 | 26 | 2 | 3 | 29 | 32 | 3 | 3 |
| Hawaii | 66 | 68 | 6 | 6 | 420 | 415 | 34 | 36 | 487 | 483 | 40 | 41 |
| U.S. | 93,005 | 96,568 | 8,337 | 7,774 | 106,575 | 112,097 | 6,378 | 7,394 | 199,580 | 208,665 | 14,715 | 15,168 |
| | 55,000 | 00,000 | 5,501 | .,,,, | . 55,515 | , | 5,575 | . ,00 F | , | _00,000 | ,, | . 5, 100 |

Estimates as of end of current month. Totals may not add because of rounding. 1. Sales of farm products include receipts from commodities placed under nonrecourse CCC loans, plus additional gains realized on redemptions during the period. *Information contact: Roger Strickland (202) 694-5592. To receive current monthly cash receipts contact Larry Traub at (202) 694-5593 or Itraub@econ.ag.gov*

Table 35—CCC Net Outlays by Commodity & Function_

| | Fiscal year | | | | | | | | | | |
|------------------------------------|------------------|--------------|--------------|--------------|------------|--------------|--------------|--------------|--------------|--------------|--|
| | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 E | 1999 E | |
| | | | | | \$ millio | n | | | | | |
| COMMODITY/PROGRAM | | | | | | | | | | | |
| Feed grains: | 2.425 | 2 207 | 2.405 | E 142 | 605 | 2.000 | 2.024 | 2 507 | 2.640 | 2.604 | |
| Corn Grain corghum | 2,435 349 | 2,387 243 | 2,105 190 | 5,143 410 | 625 130 | 2,090 153 | 2,021 261 | 2,587 284 | 2,649 285 | 2,604 280 | |
| Grain sorghum Barley | -94 | 243 71 | 174 | 186 | 202 | 129 | 114 | 109 | 265 152 | 114 | |
| Oats | -94 -5 | 12 | 32 | 16 | 5 | 129 | 8 | 8 | 9 | 8 | |
| Corn and oat products | 8 | 9 | 9 | 10 | 10 | 1 | 0 | 0 | 0 | 0 | |
| Total feed grains | 2,693 | 2,722 | 2,510 | 5,765 | 972 | 2,392 | 2,404 | 2,988 | 3,095 | 3,006 | |
| Wheat and products | 796 | 2,805 | 1,719 | 2,185 | 1,729 | 803 | 1,491 | 1,332 | 1,587 | 1,486 | |
| Rice | 667 | 867 | 715 | 887 | 836 | 814 | 499 | 459 | 515 | 471 | |
| Upland cotton | -79 | 382 | 1,443 | 2,239 | 1,539 | 99 | 685 | 561 | 1,065 | 957 | |
| Tobacco | -307 | -143 | 29 | 235 | 693 | -298 | -496 | -156 | 286 | -49 | |
| Dairy | 505 | 839 | 232 | 253 | 158 | 4 | -98 | 67 | 224 | 113 | |
| Soybeans | 5 | 40 | -29 | 109 | -183 | 77 | -65 | 5 | 11 | 222 | |
| Peanuts | 1 | 48 | 41 | -13 | 37 | 120 | 100 | 6 | 0 | -1 | |
| Sugar | 15 | -20 | -19 | -35 | -24 | -3 | -63 | -34 | -39 | -39 | |
| Honey | 47 | 19 | 17 | 22 | 0 | -9 | -14 | -2 | 0 | 0 | |
| Wool | 104 | 172 | 191 | 179 | 211 | 108 | 55 | 0 | 0 | 0 | |
| Operating expense ¹ | 618 | 625 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | |
| Interest expenditure | 632 | 745 | 532 | 129 | -17 | -1 | 140 | -111 | -109 | -42 | |
| Export programs ² | -34 | 733 | 1,459 | 2,193 | 1,950 | 1,361 | -422 | 125 | 329 | 530 | |
| 1988/96 Disaster/tree/ | 0. | 700 | 1,100 | 2,100 | 1,000 | 1,001 | | 120 | 020 | 000 | |
| livestock assistance | 161 ³ | 121 | 1,054 | 944 | 2,566 | 660 | 95 | 130 | 25 | 5 | |
| Conservation reserve program | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1,671 | 1,829 | 1,639 | |
| Other conservation programs | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 105 | 291 | 340 | |
| Other | 647 | 155 | -162 | 949 | -137 | -103 | 320 | 104 | 209 | 426 | |
| Total | 6,471 | 10,110 | 9,738 | 16,047 | 10,336 | 6,030 | 4,646 | 7,256 | 9,323 | 9,070 | |
| Function | -, | -, - | -, | -,- | -, | -, | , | , | -,- | -,- | |
| Price support loans (net) | -399 | 418 | 584 | 2,065 | 527 | -119 | -951 | 110 | 444 | 115 | |
| Cash direct payments: ⁴ | | | | _,, | | | | | | | |
| Production flexibility contract | 0 | 0 | 0 | 0 | 0 | 0 | 5,141 | 6,320 | 5,716 | 5,512 | |
| Deficiency | 4,178 | 6,224 | 5,491 | 8,607 | 4,391 | 4,008 | 567 | -1,118 | -11 | 0 | |
| Diversion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Dairy termination | 189 | 96 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Loan Deficiency | 3 | 21 | 214 | 387 | 495 | 29 | 0 | 0 | 6 | 103 | |
| Other | 0 | 0 | 140 | 149 | 171 | 97 | 95 | 7 | 360 | 335 | |
| Disaster | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Conservation reserve program | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1,671 | 1,829 | 1,639 | |
| Other conservation programs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85 | 238 | 298 | |
| Non-Insured Assistance (NAP) | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 52 | 54 | 77 | |
| Total direct payments | 4,370 | 6,341 | 5,847 | 9,143 | 5,057 | 4,134 | 5,807 | 7,017 | 8,192 | 7,964 | |
| 1988-94 crop disaster | 5 ³ | 6 | 960 | 872 | 2,461 | 584 | 14 | 2 | 0 | 0 | |
| Emergency livestock/tree/DRAP | | | | | | | | | | _ | |
| livestock indemn/forage assist. | 156 | 115 | 94 | 72 525 | 105 | 76 | 81 | 128 | 25 | 5 | |
| Purchases (net) | -48 195 | 646 | 321 14 | 525 9 | 293 | -51 23 | -249 0 | -60 0 | 145 0 | 72 0 | |
| Producer storage payments | 185 | 1 | 14 | 9 | 12 | 23 | U | U | U | U | |
| • • | | | | | | | | | | | |
| Processing, storage, and | 270 | 240 | 105 | 126 | 110 | 70 | E4 | 22 | 22 | 20 | |
| transportation | 278 | 240 | 185 | 136 | 112 | 72 | 51 | 33 | 32 | 30 | |
| Operating expense ¹ | 618 | 625 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | |
| Interest expenditure | 632 | 745 | 532 | 129 | -17 | -1 | 140 | -111 | -109 | -42 | |
| Export programs ² | -34 | 733 | 1,459 | 2,193 | 1,950 | 1,361 | -422 | 125 | 329 | 530 | |
| Other | 708 | 240 | -264 | 897 | -170 | -55 | 169 | 6 | 260 | 390 | |
| Total | 6,471 | 10,110 | 9,738 | 16,047 | 10,336 | 6,030 | 4,646 | 7,256 | 9,323 | 9,070 | |

^{1.} Does not include CCC Transfers to General Sales Manager. 2. Includes Export Guarantee Program, Direct Export Credit Program, CCC Transfers to the General Sales Manager, Market Access (Promotion) Program, starting in FY 1991 and starting in FY 1992 the Export Guarantee Program - Credit Reform, Export Enhancement Program, Dairy Export Incentive Program, and Technical Assistance to Emerging Markets. 3. Approximately \$1.5 billion in benefits to farmers under the Disaster Assistance Act of 1989 were paid in generic certificates and were not recorded directly as disaster assistance outlays. 4. Includes cash payments only. Excludes generic certificates in FY 86-96. E=Estimated in the FY 1999 Mid-Session Review Budget which was released on May 26, 1998 based on April 1998 supply and demand estimates. The CCC outlays shown for 1996-1999 include the impact of the Federal Agricultural Improvement and Reform Act of 1996, which was enacted April 4, 1996. Minus (-) indicates a net receipt (excess of repayments or other receipts over gross outlays of funds). Information contact: Richard Pazdalski Farm Sevice Agency - Budget at (202) 720-3675 or Richard_Pazdalski@wdc.fsa.usda.gov.

Food Expenditures

| Tabla | 24 E | aad Ey | pendit | LIFOC |
|-------|------|--------|--------|-------|
| iabie | აо—г | oou ex | bendii | ures |

| | | Annual | | | 1998 | | Year-to-date cumulative | | | |
|-----------------------------|-------|--------|--------|-----------------|-------------------|------------------|-------------------------|-------|--------|--|
| - | 1995 | 1996 | 1997 P | Jul | Aug P | Sept P | Jul | Aug P | Sept P | |
| | | | | | \$ billion | | | | | |
| Sales ¹ | | | | | | | | | | |
| At home ² | 354.2 | 367.6 | 380.2 | 34.3 | 31.0 | 30.1 | 225.2 | 256.3 | 286.4 | |
| Away from home ³ | 280.8 | 288.5 | 297.9 | 26.5 | 26.6 | 25.0 | 174.0 | 200.7 | 225.6 | |
| | | | | 19 | 95 \$ billion | | | | | |
| Sales ¹ | | | | | | | | | | |
| At home ² | 367.3 | 367.4 | 371.0 | 32.9 | 29.7 | 28.9 | 216.5 | 246.2 | 275.1 | |
| Away from home ³ | 287.7 | 288.5 | 289.7 | 25.1 | 25.2 | 23.5 | 165.9 | 191.0 | 214.6 | |
| | | | Pe | rcent change t | rom year earlie | r (\$ billion) | | | | |
| Sales ¹ | | | | | | | | | | |
| At home ² | 3.8 | 3.8 | 3.4 | 4.9 | -5.2 | -0.7 | 3.9 | 2.7 | 2.3 | |
| Away from home ³ | 4.5 | 2.7 | 3.0 | 1.0 | -0.3 | 2.1 | 0.7 | 0.6 | 0.7 | |
| | | | Perce | ent change fror | n year earlier (1 | 1995 \$ billion) | | | | |
| Sales ¹ | | | | | | | | | | |
| At home ² | 0.5 | 0.1 | 1.0 | 2.9 | -6.9 | -2.3 | 2.0 | 0.8 | 0.5 | |
| Away from home ³ | 2.2 | 0.3 | 0.2 | -1.5 | -2.8 | -0.6 | -1.8 | -2.0 | -1.8 | |

R = Revised. P = Preliminary. 1. Food only (excludes alcoholic beverages). Not seasonally adjusted. 2. Excludes donations and home production. 3. Excludes donations, child nutrition subsidies, and meals furnished to employees, patients, and inmates. *Information contact: Annette Clauson* (202) 694-5373

Note: This table differs from Personal Consumption Expenditures (PCE), table 2, for several reasons: (1) this series includes only food, excluding alcoholic beverages and pet food which are included in PCE; (2) this series is not seasonally adjusted, whereas PCE is seasonally adjusted at annual rates; (3) this series reports sales only, but PCE includes food produced and consumed on farms and food furnished to employees; (4) this series includes all sales of meals and snacks, while PCE includes only purchases using personal funds, excluding business travel and entertainment. For a more complete discussion of the differences, see "Developing an Integrated Information System for the Food Sector," ERS Agr. Econ. Rpt. No. 575, Aug. 1987.

Transportation

Table 37—Rail Rates; Grain & Fruit-Vegetable Shipments_
Annual

| | • | • | | 1997 1998 | | | | | | |
|--|--------|-------|--------|-----------|-------|-------|-------|-------|-------|-------|
| | Annual | | | 1997 | | | | | | |
| | 1995 | 1996 | 1997 R | Aug R | Mar | Apr R | May | Jun | Jul | Aug |
| Rail freight rate index ¹ | | | | | | | | | | |
| (Dec. 1984=100) | | | | | | | | | | |
| All products | 111.7 | 111.5 | 112.1 | 112.4 | 113.3 | 113.4 | 114.0 | 113.6 | 113.6 | 113.6 |
| Farm products | 115.6 | 115.9 | 120.3 | 121.1 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 |
| Grain ² | 117.1 | 118.0 | | | | | | | | |
| Food products | 111.7 | 108.8 | 107.6 | 108.4 | 108.0 | 108.3 | 108.7 | 108.2 | 108.1 | 106.5 |
| Barge freight rate index ¹ | | | | | | | | | | |
| (Dec 1990=100) | | | | | | | | | | |
| Grain | 172.6 | 129.5 | 107.1 | 93.9 | 90.9 | 93.0 | 86.9 | 94.5 | | |
| Grain shipments | | | | | | | | | | |
| Rail carloadings (1,000 cars)3 | 28.9 | 25.2 | 23.2 | 22.9 | 21.7 | 20.4 | 20.4 | 20.7 | 21.4 | 22.3 |
| Barge shipments (mil. ton) ^{4,5} | 3.5 | 3.1 | 2.4 | 2.9 | | | | | | |
| Fresh fruit and vegetable shipments ⁶ | | | | | | | | | | |
| Piggy back (mil. cwt) | 1.3 | 1.1 | 1.1 | 0.8 | 0.9 | 0.9 | 1.3 | 1.1 | 0.8 | 0.7 |
| Rail (mil. cwt) | 1.9 | 1.6 | 1.7 | 0.9 | 1.1 | 1.2 | 1.1 | 1.5 | 1.5 | 0.6 |
| Truck (mil. cwt) | 40.5 | 35.7 | 42.6 | 39.6 | 39.9 | 44.5 | 50.3 | 51.7 | 42.2 | 39.4 |
| Cost of operating trucks | | | | | | | | | | |
| hauling produce ⁶ | | | | | | | | | | |
| Fleet operation (¢/mile) | 130.3 | 123.0 | 135.4 | 135.2 | | | | | | |

P= Preliminary. R = Revised. -- = Not available. 1. Department of Labor, Bureau of Labor Statistics. 2. Discontinued. 3. Weekly average; from Association of American Railroads. 4. Shipments on Illinois and Mississippi waterways, U.S. Corps of Engineers. 5. Annual 1996 is 7-month average. 6. Agricultural Marketing Service, USDA. *Information contact: Jenny Gonzales (202) 694-5296*

Indicators of Farm Productivity

Table 38—Indexes of Farm Production, Input Use, & Productivity¹.

| | 4007 | 4000 | 4000 | 4000 | 4004 | 4000 | 4000 | 4004 | 4005 | 4000 |
|-------------------------------------|------|------|------|------|----------|------|------|------|------|------|
| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| | | | | | 1992=100 |) | | | | |
| Farm output | 88 | 83 | 89 | 94 | 94 | 100 | 94 | 107 | 101 | 106 |
| All livestock products | 92 | 93 | 94 | 95 | 98 | 100 | 100 | 108 | 110 | 109 |
| Meat animals | 95 | 97 | 97 | 96 | 99 | 100 | 100 | 102 | 103 | 100 |
| Dairy products | 94 | 96 | 95 | 98 | 98 | 100 | 99 | 114 | 115 | 115 |
| Poultry and eggs | 81 | 83 | 86 | 92 | 96 | 100 | 104 | 110 | 114 | 119 |
| All crops | 86 | 75 | 86 | 92 | 92 | 100 | 90 | 106 | 96 | 103 |
| Feed crops | 84 | 62 | 85 | 88 | 86 | 100 | 76 | 102 | 83 | 98 |
| Food crops | 84 | 76 | 83 | 107 | 82 | 100 | 96 | 97 | 90 | 93 |
| Oil crops | 88 | 72 | 88 | 87 | 94 | 100 | 85 | 115 | 99 | 107 |
| Sugar | 95 | 91 | 91 | 92 | 96 | 100 | 95 | 106 | 98 | 94 |
| Cotton and cottonseed | 92 | 96 | 75 | 96 | 109 | 100 | 100 | 122 | 110 | 117 |
| Vegetables and melons | 90 | 81 | 85 | 93 | 97 | 100 | 97 | 113 | 108 | 112 |
| Fruit and nuts | 95 | 102 | 98 | 97 | 96 | 100 | 107 | 111 | 102 | 102 |
| Farm input ¹ | 101 | 100 | 100 | 101 | 102 | 100 | 101 | 102 | 101 | 100 |
| Farm labor | 101 | 103 | 104 | 102 | 106 | 100 | 96 | 96 | 92 | 100 |
| Farm real estate | 100 | 100 | 102 | 101 | 100 | 100 | 98 | 99 | 98 | 99 |
| Durable equipment | 120 | 113 | 108 | 105 | 103 | 100 | 97 | 94 | 92 | 89 |
| Energy | 102 | 102 | 101 | 100 | 101 | 100 | 100 | 103 | 109 | 104 |
| Fertilizer | 106 | 97 | 94 | 97 | 98 | 100 | 111 | 109 | 85 | 89 |
| Pesticides | 92 | 79 | 93 | 90 | 100 | 100 | 97 | 103 | 94 | 106 |
| Feed, seed, and purchased livestock | 97 | 96 | 91 | 99 | 99 | 100 | 101 | 102 | 109 | 95 |
| Inventories | 102 | 98 | 93 | 97 | 100 | 100 | 104 | 99 | 108 | 104 |
| Farm output per unit of input | 87 | 83 | 90 | 93 | 92 | 100 | 94 | 105 | 100 | 106 |
| Output per unit of labor | | | | | | | | | | |
| Farm ² | 87 | 81 | 86 | 92 | 89 | 100 | 98 | 111 | 110 | 106 |
| Nonfarm ³ | 95 | 95 | 96 | 96 | 97 | 100 | 100 | 101 | | |

Values for latest year preliminary. 1. Includes miscellaneous items not shown separately. 2. Source: Economic Research Service. 3. Source: Bureau of Labor Statistics. *Information contact: John Jones (202) 694-5614*

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's Target Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice or TDD). USDA is an equal opportunity provider and employer.

Food Supply & Use

| Table 39—Per Capita Consump | tion of Maj | jor Food | Commo | odities ¹ _ | | | | | | |
|--|---------------|---------------|---------------|------------------------|---|---------------|---------------|---------------|---------------|--------------|
| | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| Commodity | | | | | Lbs. | | | | | |
| Red meats ^{2,3,4} | 119.5 | 115.9 | 112.3 | 111.9 | 114.1 | 112.2 | 114.8 | 115.1 | 112.8 | 111.0 |
| Beef | 68.6 | 65.4 | 63.9 | 63.1 | 62.8 | 61.5 | 63.6 | 64.4 | 65.0 | 63.8 |
| Veal | 1.1 | 1.0 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 0.9 |
| Lamb & mutton | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 8.0 | 8.0 |
| Pork | 48.8 | 48.4 | 46.4 | 46.9 | 49.5 | 48.9 | 49.6 | 49.0 | 45.9 | 45.6 |
| Poultry ^{2,3,4} | 51.9 | 53.9 | 56.3 | 58.3 | 60.8 | 62.5 | 63.3 | 62.9 | 64.4 | 64.8 |
| Chicken | 39.6 | 40.9 | 42.4 | 44.2 | 46.7 | 48.5 | 49.3 | 48.8 | 49.8 | 50.9 |
| Turkey | 12.4 | 13.1 | 13.8 | 14.1 | 14.1 | 14.0 | 14.1 | 14.1 | 14.6 | 13.9 |
| Fish and shellfish ³ | 15.1 | 15.6 | 15.0 | 14.8 | 14.7 | 14.9 | 15.1 | 14.9 | 14.7 | 14.5 |
| Eggs ⁴ | 31.8 | 30.5 | 30.2 | 30.1 | 30.3 | 30.4 | 30.6 | 30.2 | 30.5 | 30.7 |
| Dairy products | | | | | | | | | | |
| Cheese (excluding cottage) ^{2,5} | 23.7 | 23.8 | 24.6 | 25.0 | 26.0 | 26.2 | 26.8 | 27.3 | 27.7 | 28.0 |
| American | 11.5 | 11.0 | 11.1 | 11.1 | 11.3 | 11.4 | 11.5 | 11.8 | 12.0 | 12.0 |
| Italian | 8.1 | 8.5 | 9.0 | 9.4 | 10.0 | 9.8 | 10.3 | 10.4 | 10.8 | 11.0 |
| Other cheeses ⁶ | 4.1 | 4.3 | 4.5 | 4.6 | 4.7 | 5.0 | 5.0 | 5.0 | 5.0 | 5.1 |
| Cottage cheese | 3.9 | 3.6 | 3.4 | 3.3 | 3.1 | 2.9 | 2.8 | 2.7 | 2.6 | 2.7 |
| Beverage milks ² | 222.3 | 224.2 | 221.8 | 221.2 | 218.3 | 213.4 | 213.5 | 209.7 | 210.0 | 206.9 |
| Fluid whole milk ⁷ | 105.7 | 97.5 | 90.4 | 87.3 | 84.0 | 80.1 | 78.8 | 75.3 | 74.6 | 72.7 |
| Fluid lowfat milk ⁸ Fluid skim milk | 100.5 16.1 | 106.5 20.2 | 108.4 22.9 | 109.9 23.9 | 109.3 25.0 | 106.5 26.7 | 105.9 28.7 | 102.5 31.9 | 101.7 33.7 | 99.8 34.4 |
| Fluid Skill Hillik Fluid cream products ⁹ | 7.6 | 7.8 | 7.6 | 23.9 7.7 | 8.0 | 8.0 | 8.1 | 8.4 | 8.7 | 9.1 |
| Yogurt (excluding frozen) | 7.6 4.5 | 4.2 | 4.0 | 4.2 | 4.2 | 4.3 | 4.7 | 5.4 5.1 | 4.8 | 5.1 |
| Ice cream | 17.3 | 16.1 | 15.8 | 16.3 | 16.3 | 16.1 | 16.1 | 15.7 | 15.9 | 16.2 |
| Ice milk | 8.0 | 8.4 | 7.7 | 7.4 | 7.1 | 6.9 | 7.6 | 7.5 | 7.6 | 7.9 |
| Frozen yogurt | | 2.0 | 2.8 | 3.5 | 3.1 | 3.5 | 3.5 | 3.5 | 2.6 | 2.1 |
| All dairy products, milk | | | | | • | | | | | |
| equivalent, milkfat basis ¹⁰ | 582.5 | 563.8 | 568.4 | 565.6 | 565.9 | 574.1 | 586.0 | 584.4 | 575.5 | 579.8 |
| Fats and oilstotal fat content | 63.6 | 60.8 | 62.8 | 65.4 | 67.4 | 70.2 | 68.6 | 66.9 | 65.4 | 67.4 |
| Butter and margarine (product weight) | 14.8 | 14.6 | 15.3 | 15.0 | 15.4 | 15.8 | 14.7 | 13.7 | 13.5 | 12.8 |
| Shortening | 21.5 | 21.5 | 22.2 | 22.4 | 22.4 | 25.1 | 24.1 | 22.5 | 22.3 | 20.9 |
| Lard and edible tallow (direct use) | 2.6 | 2.1 | 2.4 | 3.1 | 4.1 | 3.9 | 4.7 | 4.9 | 5.3 | 4.7 |
| Salad and cooking oils | 26.3 | 24.4 | 24.8 | 26.7 | 27.2 | 26.8 | 26.3 | 26.9 | 26.1 | 28.7 |
| Fresh fruits ¹¹ | 120.9 | 122.8 | 116.3 | 113.0 | 123.5 | 124.9 | 126.5 | 124.6 | 129.0 | 133.2 |
| Canned fruit ¹² | 18.5 | 19.0 | 18.4 | 17.1 | 19.8 | 18.0 | 18.3 | 14.9 | 16.4 | 18.0 |
| Dried fruit | 3.3 | 3.3 | 3.1 | 3.0 | 2.8 | 3.0 | 3.0 | 2.8 | 2.8 | 2.7 |
| Frozen fruit | 3.4 | 3.7 | 3.5 | 3.5 | 3.8 | 3.4 | 2.9 | 4.2 | 3.9 | 3.2 |
| Selected fruit juices ¹³ | 68.3 | 70.5 | 66.2 | 66.6 | 63.6 | 74.9 | 71.6 | 75.6 | 75.3 | 75.2 |
| Vegetables ¹¹ | | | | | | | | | | |
| Fresh | 167.4 | 172.2 | 167.2 | 167.2 | 171.1 | 171.9 | 177.4 | 175.1 | 181.8 | 185.6 |
| Canning | 94.8 | 102.4 | 110.7 | 113.3 | 111.6 | 112.1 | 107.8 | 110.2 | 108.5 | 105.9 |
| Freezing | 64.2 | 67.6 | 66.8 | 72.7 | 70.8 | 75.1 | 79.5 | 79.9 | 83.9 | 81.5 |
| Dehydrated and chips | 27.5 | 28.2 | 29.0 | 31.2 | 30.1 | 31.0 | 30.7 | 30.0 | 33.1 | 33.6 |
| Pulses | 7.5 | 6.3 | 7.1 | 7.8 | 8.2 | 7.7 | 8.5 | 8.5 | 8.0 | 8.5 |
| Peanuts (shelled) | 6.9 | 7.0 | 6.0 | 6.5 | 6.2 | 6.0 | 5.8 | 5.7 | 5.7 | 5.8 |
| Tree nuts (shelled) | 2.3 | 2.2 | 2.4 | 2.2 | 2.2 | 2.2 | 2.3 | 1.9 | 2.0 | 2.2 |
| Flour and cereal products ¹⁴ | 175.5 | 174.5 | 182.0 | 183.6 | 186.2 | 191.0 | 194.1 | 192.5 | 198.4 | 200.1 |
| Wheat flour | 131.7 | 129.6 | 136.0 | 136.9 | 138.8 | 143.3 | 144.5 | 141.8 | 148.8 | 149.7 |
| Rice (milled basis) | 14.3 | 15.2 | 16.2 | 16.8 | 17.5 | 17.6 | 19.3 | 20.1 | 18.9 | 19.5 |
| Caloric sweeteners ¹⁵ | 132.7 | 133.1 | 137.0 | 138.0 | 141.2 | 144.4 | 147.4 | 149.9 | 150.3 | |
| Coffee (green bean equiv.) | 9.8 | 10.1 | 10.3 | 10.3 | 10.0 | 9.1 | 8.2 | 8.0 | 8.9 | 9.3 |
| Cocoa (chocolate liquor equiv.) | 3.8 | 4.0 | 4.3 | 4.6 | 4.6 | 4.3 | 3.9 | 3.6 | 4.2 | 4.1 |

^{-- =} Not available. 1. In pounds, retail weight unless otherwise stated. Consumption normally represents total supply minus exports, nonfood use, and ending stocks. Calendar-year data, except fresh citrus fruits, peanuts, tree nuts, and rice, which are on crop-year basis. 2. Totals may not add due to rounding. 3. Boneless, trimmed weight. Chicken series revised to exclude amount of ready-to-cook chicken going to pet food as well as some water leakage that occurs when chicken is cut up before packaging. 4. Excludes shipments to the U.S. territories. 5. Whole and part-skim milk cheese. Natural equivalent of cheese and cheese products. 6. Includes Swiss, Brick, Muenster, cream, Neufchatel, Blue, Gorgonzola, Edam, and Gouda. 7. Plain and flavored. 8. Plain and flavored, and buttermilk. 9. Heavy cream, light cream, half and half, eggnog, sour cream, and dip. 10. Includes condensed and evaporated milk and dry milk products. 11. Farm weight. 12. Excludes pineapples and berries. 13. Single strength equivalent. 14. Includes rye, corn, oat, and barley products. Excludes quantities used in alcoholic beverages, corn sweeteners, and fuel. 15. Dry weight equivalent. Information contact: Jane E. Allshouse (202) 694-5449



February 1999

Monday, February 22 -Tuesday, February 23, 1999

Marriott Crystal Gateway Hotel Arlington, Virginia

- Assessments of farm prospects by government and industry analysts
- Focus sessions on major farm-sector issues in the 21st century
- Long-term commodity projections to the year 2008

For details on program and registration

On the Web at www.usda.gov/oce/waob/agforum.htm/
By e-mail to agforum@oce.usda.gov
By phone at (202) 314-3462
Or write Outlook Forum '99, Room 5143-South Bldg., USDA,
Washington, DC 20250-3812