



# Statistical Highlights 2004 of U.S. Agriculture & 2005

Dear Reader:

Each year, the U.S. Department of Agriculture's (USDA) National Agricultural Statistics Service (NASS) conducts surveys and prepares hundreds of reports covering U.S. agriculture. Included are data on production and supplies of food and fiber, prices paid and received by farmers, farm labor and wages, farm income and finances, chemical use, and many other aspects of the industry. The abundance of information produced has earned NASS the title "the fact finders of agriculture." This edition of *Statistical Highlights of United States Agriculture, 2004/2005* brings together the most important economic and statistical information on agriculture in a single summary report. More detail and additional statistics may be found on the NASS website at [www.usda.gov/nass](http://www.usda.gov/nass). The statistical data contained in this report were provided by NASS, the Economic Research Service, and the World Agricultural Outlook Board. We would like to thank all the contributors to this publication and especially recognize the thousands of farmers, ranchers, and businesses who voluntarily report the information on which most of these statistics are based.

We would also like to invite those who use this publication to make suggestions to improve it. Your comments on this report or other NASS issues can be sent directly to me at NASS, USDA, Room 4117 South Building, 1400 Independence Avenue, Washington, D.C. 20250-2000 or by e-mail to [ron\\_bosecker@nass.usda.gov](mailto:ron_bosecker@nass.usda.gov). I trust you will find the information useful and welcome your input.

Sincerely,

R. Ronald Bosecker  
Administrator

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## **National Agricultural Statistics Service**

The National Agricultural Statistics Service (NASS) administers the United States Department of Agriculture's program for collecting and publishing timely national, State, and county level agricultural statistics. In 1862, the first Commissioner of the newly formed Department of Agriculture, Isaac Newton, established a goal to "collect, arrange, and publish statistical and other useful agricultural information." A year later, in July 1863, the Department's Division of Statistics issued the Nation's first official *Crop Production* report.

The structure of farming, ranching, and the agricultural industry has changed dramatically during the succeeding 141 years. The need for accurate, timely, and objective statistical information about the Nation's agriculture has become even more important as the country has moved from subsistence agriculture to a highly industrialized business that produces food and fiber for the world market.

The National Agricultural Statistics Service now publishes over 500 reports a year with official estimates covering over 120 crops and 45 livestock items. Each report is issued according to a published annual calendar of release dates. Strict security procedures ensure that no one gains premature access to the information. In addition, NASS has a strong tradition of cooperation with other federal agencies, state departments of agriculture, and universities to supplement the federal statistics program. The state-federal cooperative relationship, which began over 80 years ago, eliminates duplication and provides state input while maintaining consistency in surveys conducted across the U.S.

### **Data Sources and Estimation Procedures**

The official estimates prepared by NASS are based on data obtained from farm and ranch operators, agribusinesses such as grain elevators, shippers, processors, and commercial storage firms. Scientifically designed sampling methods are used to determine the operations to be included in each survey. Operators are interviewed by professionally trained interviewers, either in person or by telephone. In some instances operators will receive a questionnaire by mail with a postage-paid return envelope. Anyone not returning the form is usually telephoned.

Survey response is voluntary. Very stringent laws and procedures protect the confidentiality of each operator's response.

NASS maintains extensive lists of farm and ranch operations along with identifiers that indicate size and type of operation. NASS also maintains complete lists of grain storage facilities, commercial operations such as feedlots, cold storage facilities, and manufactured dairy processors. Nearly every report issued by NASS is based on survey sample data collected from farms or other agribusinesses selected from these lists.

NASS also maintains an area sampling frame. The area frame, which is essentially the entire land mass of the United States, ensures complete coverage of the U.S. farm population. The Area Frame Survey provides accurate estimates of crop acres and is the primary basis for the June Acreage report. The area frame is also used to measure the incompleteness of the list frame.

Sampling from the area frame is a multi-step process. First, all land in each state is classified into land use categories by the intensity of cultivation using a variety of map products and satellite imagery. These land use classifications range from intensively cultivated land to marginally cultivated grazing land to urban areas. The land in each use category is then divided into segments ranging from about 1 square mile in cultivated areas to 0.1 square mile in urban areas. This allows intensively cultivated land segments to be selected with a greater frequency than those less intensively cultivated.

Nearly 12,000 area segments are selected nationwide for the large scale survey conducted each June. Using maps and aerial photos that show the exact site and boundaries of each sample segment, interviewers locate and interview every operator with land inside the segment boundaries. They obtain information on the crops planted in each field, livestock inventory, and quantities of grain in storage.

A considerable amount of data are also available from other organizations, both private and public. The administrative data are used to evaluate the accuracy of production estimates and in some cases to determine the final estimates. The information becomes available during the marketing year but often after the preliminary production estimates are determined. Some examples of administrative data follow.

*Utilization data.* Information about imports, exports, soybean crush, and industrial use are available from the Bureau of the Census. These data are used in a balance sheet that starts with carryover stocks from the previous year and the current production estimate, which measures total supply. At the end of the marketing year, when subtracting utilization data from the supplies at the beginning of the crop year, the result should correspond closely with the ending stocks. If there is a large unexplained difference between survey stocks and indicated stocks from the balance sheet, then the previous year acreage, yield, and production survey and stocks data are reviewed to determine if revisions should be made.

*Slaughter statistics.* NASS receives data through the Food Safety and Inspection Service about the number of animals inspected at slaughter operations. These data are used to monitor the accuracy of the livestock production statistics.

*Price statistics.* Extensive use is made of USDA's Agricultural Marketing Service market news data to prepare the monthly average prices received from the sales of livestock species. Also, Bureau of Labor price indices are used to measure the relative changes in prices paid for production input items.

## **Summary**

NASS is a world leader in the use of statistical methodology to produce statistics about agriculture. NASS statisticians provide consultative services to a large number of developing countries around the world, helping them develop statistical information about their agriculture. NASS has also been a leader in making information available through electronic media. Globalization of markets is expanding as buyers and sellers have nearly instant access to market information from around the world.

The 2002 U.S. Census of Agriculture is now available on the internet. The census of agriculture is conducted every 5 years and is the most complete accounting of U.S. agriculture and the only source of uniform, comprehensive data for every county in the nation.

All information is currently available on the Internet at [www.usda.gov/nass/](http://www.usda.gov/nass/). To order a printed copy or a CD-ROM, call our subscription sales desk at 800-999-6779. For more detail on the census of agriculture information call 800-727-9540.

## **Electronic Dissemination of Data from NASS**

NASS National and State reports, data, agricultural graphics, and Agency information are available on the Internet. From the NASS Homepage there are nine areas that can be accessed for more information. "Today's Reports" is one of the areas and is updated every day showing the reports released for that day. Reports are generally available within 5 minutes after release time.

The NASS Homepage address is: <http://www.usda.gov/nass/>

### **Electronic Subscriptions**

All of the NASS National reports are also available via an automated mailing list. You may subscribe to as many reports as you wish and they will be sent directly to your e-mail address within 3 hours of release, all at no charge.

For further information, send an e-mail to: [usda-reports@usda.mannlib.cornell.edu](mailto:usda-reports@usda.mannlib.cornell.edu)

and in the body of the message, type the word: list. Additional information is also available by selecting Publications from the NASS Homepage.