

# Documentation for the Tables

## Supply

Corn production for each state for the years 2004–2010 were found on the National Agricultural Statistics Service’s (NASS) interactive, online statistical database called Quick Stats 2.0. U.S. corn stocks for each state on September 1 were also found on the same website. See websites below for source of *Tables 1* and *2*.

The years listed on the NASS website were for crop years beginning on September 1 of the previous year and ending on August 31 the following year. For example, corn production for the year 2010, listed as 2009 on NASS, started on September 1, 2009 and extended to August 31, 2010.

**Table 1. Corn Production, by State and U.S., 2004-2010**

**Source:** Census of Agriculture Database, Quick Stats 2.0, National Agricultural Statistics Service, USDA

<http://quickstats.nass.usda.gov/>



**Quick Stats** Home Recent Statistics Feedback Tutorial

Navigation History:

Status: 263 records.

Select Commodity (one or more)

<b>Program:</b> CENSUS SURVEY	<b>Sector:</b> ANIMALS & PRODUCTS <b>CROPS</b> DEMOGRAPHICS ECONOMICS ENVIRONMENTAL	<b>Group:</b> CROP TOTALS <b>FIELD CROPS</b> FRUIT & TREE NUTS HORTICULTURE VEGETABLES	<b>Commodity:</b> AMARANTH BARLEY BEANS BUCKWHEAT CANOLA <b>CORN</b> COTTON CRAMBE CRUDE PINE GUM
<b>Category:</b> CONDITION, POOR CONDITION, VERY POOR NET SEEDED PRICE RECEIVED PRICE RECEIVED, ADJUSTED BASE PRICE RECEIVED, PARITY <b>PRODUCTION</b> PROGRESS, DENTED PROGRESS, DENTED, 5 YEAR AVERAGE	<b>Data Item:</b> CORN, GRAIN - PRODUCTION, MEASURED IN \$ <b>CORN, GRAIN - PRODUCTION, MEASURED IN BU</b> CORN, GRAIN, IRRIGATED - PRODUCTION, MEASURED IN BU CORN, GRAIN, NON-IRRIGATED - PRODUCTION, MEASURED IN BU CORN, SILAGE - PRODUCTION, MEASURED IN TONS CORN, SILAGE, IRRIGATED - PRODUCTION, MEASURED IN TONS CORN, SILAGE, NON-IRRIGATED - PRODUCTION, MEASURED IN TONS		

Select Location (one or more)

<b>Domain:</b> AREA HARVESTED <b>TOTAL</b>	<b>Geographic Level:</b> AGRICULTURAL DISTRICT COUNTY <b>NATIONAL</b> STATE	<b>State:</b> ALABAMA ARIZONA ARKANSAS CALIFORNIA COLORADO CONNECTICUT DELAWARE FLORIDA GEORGIA
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## Select Time (one or more)

<b>Year:</b> 2011 2010 2009 2008 2007 2006 2005 2004 2003	<b>Period Type:</b> POINT IN TIME	<b>Period:</b> FIRST OF MAR FIRST OF JUN FIRST OF SEP FIRST OF DEC
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**Table 2. Corn Stocks, by State and U.S., 2004-2011**

**Source:** *Census of Agriculture Database, Quick Stats 2.0*, National Agricultural Statistics Service, USDA

<http://quickstats.nass.usda.gov/>

 United States Department of Agriculture  
National Agricultural Statistics Service

## Quick Stats

[Home](#) [Recent Statistics](#) [Feedback](#) [Tutorials](#)

## Select Commodity (one or more)

<b>Program:</b> CENSUS SURVEY	<b>Sector:</b> ANIMALS & PRODUCTS CROPS DEMOGRAPHICS ECONOMICS ENVIRONMENTAL	<b>Group:</b> CROP TOTALS FIELD CROPS FRUIT & TREE NUTS HORTICULTURE VEGETABLES	<b>Commodity:</b> AMARANTH BARLEY BEANS BUCKWHEAT CANOLA CORN COTTON CRAMBE CRUDE PINE GUM
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## Select Location (one or more)

<b>Geographic Level:</b> NATIONAL STATE	<b>State:</b> ALABAMA ARIZONA ARKANSAS CALIFORNIA COLORADO DELAWARE FLORIDA GEORGIA IDAHO
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## Select Time (one or more)

<b>Year:</b>	<b>Period Type:</b>	<b>Period:</b>
2011 2010 2009 2008 2007 2006 2005 2004 2003	POINT IN TIME	FIRST OF MAR FIRST OF JUN FIRST OF SEP FIRST OF DEC

Clear

Get Data

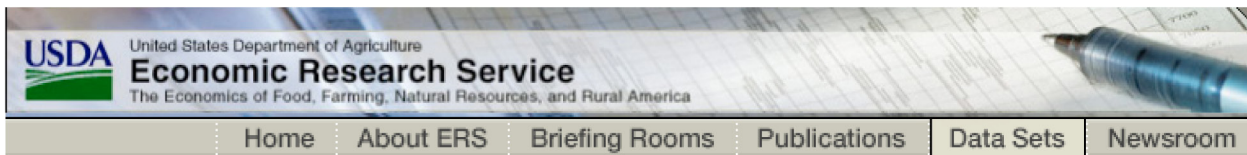
## Animal Numbers and Corn Consumption

Corn consumption by livestock in each state has not been published in any known public data source. For this research bulletin a four-step process was used to estimate state-level corn consumption by livestock.

### First Step

The first step started with the *Feed Grains Database: Yearbook Tables* published online by the United States Department of Agriculture's (USDA) Economic Research Service (ERS). The numbers are based on quantities fed and feed per grain consuming animal unit given in *Tables 29 and 30*.

<http://www.ers.usda.gov/Data/Feedgrains/FeedYearbook.aspx>



You are here: [Home](#) / [Data Sets](#) / [Feed Grains Database](#)

## Data Sets

### Feed Grains Database: Yearbook Tables

The tables previously published annually in the *Feed Yearbook* are available as part of the Feed Grains Database. The tables will contain new information as data are added to the database. Additional historical data can be retrieved from the database using [Custom Queries](#).

For help understanding the datasets, see the [Documentation](#).

#### Data

- [U.S. Acreage, Production, Yield, and Farm Price](#)
- [World Production, Supply, and Disappearance](#)
- [U.S. Supply and Disappearance](#)
- [U.S. Hay Production, Harvested Acreage, Yield, and Stocks](#)
- [Domestic and International Prices](#)
- [Exports and Imports](#)
- [Rail Rates and Grain Shipments](#)
- [Processed Feeds and Grain-Consuming Indexes](#)
- [Corn Feed, Seed, and Industrial Uses](#)
- [Other Exports and Imports](#)

#### Contents:

- [Feed Grains Database](#)
- **[Yearbook Tables](#)**
- [Custom Queries](#)
- [Download Data](#)
- [Documentation](#)

Feed Yearbook Tables	Last Updated
All tables in one file:	
Recent (contains latest 5-10-15 years of data): <a href="#">Excel</a> <a href="#">PDF</a>	
Historical (provides entire time series for the data): <a href="#">Excel</a> <a href="#">PDF</a>	
<b>Processed Feeds and Grain-Consuming Indexes</b>	
<a href="#">Table 29--Processed feeds: Quantities fed and feed per grain-consuming animal unit</a>	October 14, 2011
<a href="#">Table 30--Indexes of feed-consuming animal units</a>	October 1 2, 2011

In *Table 29*, corn consumed as an energy feed by livestock in 2007/08 was 148,793 thousand metric tons. The metric tons were converted to bushels by using 39.3679 bushels/metric ton. The estimated corn consumed by livestock was 5.858 billion bushels and covered the period from September 2007 through August 2008.

Table 29--Processed feeds: Quantities fed and feed per grain-consuming animal unit (1,000 metric tons)

Feed 1/		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12
Energy feeds	Corn (Sep-Aug)	155,330	140,726	148,793	131,625	130,174	122,006	119,386
	Sorghum (Sep-Aug)	3,548	2,868	4,188	5,907	3,573	3,155	1,651
	Barley (Sep-Aug)	1,041	1,360	911	990	931	938	769
	Oats (Sep-Aug)	2,137	2,088	2,024	1,977	1,796	1,572	1,595
	Wheat (Sep-Aug)	2,720	4,601	4,133	3,351	4,014	2,157	4,856
	Total energy feeds	164,776	151,643	160,049	143,851	140,488	129,829	128,257

## Second Step

The second step used data from *Table 30* that showed Grain Consuming Animal Units (GCAU) for dairy cattle, cattle on feed, other cattle, hogs and pigs, poultry, and other livestock, for the U.S. The GCAU for each animal type was divided by the total GCAU to arrive at a percent of corn consumed for each animal type.

Table 30--Indexes of feed consuming animal units (millions)

Unit 1/		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12
Grain	Dairy	10.29	10.34	10.47	10.55	10.31	10.39	10.45
	Cattle on feed	22.05	22.44	22.72	21.23	20.90	21.49	22.52
	Other cattle	3.75	3.74	3.69	3.66	3.64	3.55	3.45
	Hogs	23.93	24.50	26.29	26.38	25.95	26.05	26.45
	Poultry	30.83	31.08	31.30	30.29	30.16	30.75	30.74
	Other livestock	0.64	0.64	0.63	0.63	0.63	0.63	0.62
	Total	91.49	92.75	95.12	92.75	91.60	92.85	94.22



For example, in 2008 dairy cattle represented 10.47 million GCAU out of a total of 95.12 million GCAU. This meant that 11.01 percent of corn consumed by livestock in the U.S. was consumed by dairy cattle. Using the same calculation, cattle on feed consumed 23.88 percent; other cattle and calves consumed 3.88 percent; hogs and pigs consumed 27.64 percent; poultry consumed 32.90 percent; and other livestock consumed 0.66 percent of corn for livestock feed. Estimated corn consumption in bushels and percentages by type of livestock for 2004-2010 are shown below.

Year	Corn Consumption by Livestock (bushels)	Percent Consumed by Dairy Cattle	Percent Consumed by Cattle on Feed	Consumed by Cattle and Calves	Percent Consumed by Hogs and Pigs	Percent Consumed by Poultry	Percent Consumed by Other Livestock
2004	5,781,188,602	11.32%	23.84%	4.13%	26.07%	33.93%	0.71%
2005	6,135,014,800	11.27%	23.67%	4.12%	26.17%	34.06%	0.71%
2006	6,115,015,907	11.25%	24.10%	4.10%	26.15%	33.70%	0.70%
2007	5,540,087,095	11.15%	24.20%	4.04%	26.42%	33.51%	0.69%
2008	5,857,667,945	11.01%	23.88%	3.88%	27.64%	32.90%	0.66%
2009	5,181,799,838	11.38%	22.89%	3.95%	28.45%	32.66%	0.68%
2010	5,199,948,439	11.10%	22.49%	3.92%	27.92%	32.52%	0.68%

### Third Step

The third step estimated the bushels consumed by type of livestock. For 2008, the 5.858 billion bushels of corn consumed by all livestock were multiplied by the percent consumed by each type. The result was 0.645 billion bushels (5.858 billion bushels x 11.01 percent) consumed by dairy cattle, 1.399 billion bushels consumed by cattle on feed, 0.227 billion bushels consumed by other cattle and calves, 1.619 billion bushels by hogs and pigs, 1.927 billion bushels by poultry and 0.039 billion bushels consumed by other livestock. These estimates for 2008 are shown on the bottom line of *Table 17* in this research bulletin. Adjacent tables show the results for the other years.

### Fourth Step

The fourth step estimated the bushels of corn consumed by each type of livestock in each state. The data for each type were gathered at the state level, and were found on USDA's National Agricultural Statistics Service (NASS) interactive, online statistical database, called Quick Stats 2.0.

### Table 3. Dairy Cattle, Head by State and U.S., 2004-2010

**Source:** Inventory of milk cows plus heifers weighing more than 500 lb to replace milk cows, Census of Agriculture Database, Quick Stats 2.0, National Agricultural Statistics Service, USDA.

<http://quickstats.nass.usda.gov/>

**Category:**

CALF CROP
DISAPPEARANCE, OTHER
FEEDLOTS
GROSS INCOME
<b>INVENTORY</b>
INVENTORY, AVG
LOSS, DEATH
OPERATIONS
PLACEMENTS

**Data Item:**

CATTLE, COWS, BEEF - INVENTORY, MEASURED IN PCT BY SIZE GROUP
CATTLE, COWS, BEEF - OPERATIONS WITH INVENTORY
<b>CATTLE, COWS, MILK - INVENTORY</b>
CATTLE, COWS, MILK - INVENTORY, MEASURED IN PCT BY SIZE GROUP
CATTLE, COWS, MILK - OPERATIONS WITH INVENTORY
CATTLE, HEIFERS & HEIFER CALVES, ON FEED - INVENTORY
CATTLE, HEIFERS, GE 500 LBS, BEEF REPLACEMENT - INVENTORY
<b>CATTLE, HEIFERS, GE 500 LBS, MILK REPLACEMENT - INVENTORY</b>
CATTLE, HEIFERS, GE 500 LBS, OTHER - INVENTORY

**Select Location (one or more)** ⓘ**Domain:**

AREA IRRIGATED
FEWEST NUMBER OF OPERATIONS ACCOUNTING FOR COMMODITY SALES
HARVESTED CROPLAND IRRIGATED
INVENTORY OF MILK COWS
<b>TOTAL</b>

**Geographic Level:**

AGRICULTURAL DISTRICT
COUNTY
<b>NATIONAL</b>
STATE

**State:**

<b>ALABAMA</b>
ALASKA
ARIZONA
ARKANSAS
CALIFORNIA
COLORADO
CONNECTICUT
DELAWARE
FLORIDA

**Select Time (one or more)** ⓘ**Year:**

2011
<b>2010</b>
2009
2008
2007
2006
2005
2004
2003

**Period Type:**

<b>ANNUAL</b>
POINT IN TIME

**Period:**

<b>FIRST OF JAN</b>
FIRST OF JUL
END OF DEC

Dairy cattle were the sum of: 1) milk cows, and 2) heifers weighing more than 500 lb to replace milk cows. Shown in *Table 3* of this research bulletin, the figure for Nebraska was 77,000 head on January 1, 2008. This number was divided by the total dairy cattle in the U.S. of 13,672,000 to arrive at 0.56 percent for Nebraska. This was multiplied by the 0.645 billion bushels of corn consumed by dairy cattle in the U.S., and resulted in Nebraska's estimate being 3.6 million bushels as shown in *Table 4* in this research bulletin. Similar calculations were performed for each state.

## Table 5. Cattle on Feed, Head by State and U.S., 2004-2010

**Source:** Cattle on feed inventory, Census of Agriculture Database, Quick Stats 2.0, National Agricultural Statistics Service, USDA

<http://quickstats.nass.usda.gov/> Follow instructions for website shown for *Table 3*.

The fourth step as described above was repeated for cattle on feed using the Quick Stats 2.0 database. In Nebraska, the January 1, 2008 cattle on feed inventory was 2,700 thousand head as shown in *Table 5* of this research bulletin. This number was divided by the total number of cattle on feed in the U.S. of 14,827 thousand head to arrive at Nebraska's percentage of 18.21. This was multiplied by the 1.399 billion bushels of corn consumed by cattle on feed in the U.S., and resulted in Nebraska's estimate being 254.8 million bushels as shown in *Table 6* in this research bulletin. Similar calculations were performed for each state.

## Table 7. Cattle and Calves, Head by State and U.S., 2004-2010

**Source:** Cattle, including calves inventory, Census of Agriculture Database, Quick Stats 2.0, National Agricultural Statistics Service, USDA.

<http://quickstats.nass.usda.gov/> Follow instructions for website shown for *Table 3*.

The fourth step described above was followed for other cattle and calves. However, direct data was not readily available and required some calculations. The other cattle and calf numbers were estimated by subtracting the total number of dairy cattle and cattle on feed from the total number of cattle (including calves). In 2008, Nebraska had 3.67 million other cattle and calves as shown in *Table 7* in this research bulletin. When divided by the total number of other cattle and calves in the U.S., Nebraska had 5.43 percent of the country's other cattle and calves. This was multiplied by 0.227 billion bushels of corn consumed by other cattle and calves in the U.S. to arrive at 12.3 million bushels for Nebraska as shown in *Table 8* in this research bulletin. Similar calculations were performed for each state.

## Table 9. Hogs and Pigs, Head by State and U.S., 2004-2010

**Source:** Hogs inventory, Census of Agriculture Database, Quick Stats 2.0, National Agricultural Statistics Service, USDA.

<http://quickstats.nass.usda.gov/> Follow instructions for website shown for *Table 3*.

The hogs and pigs inventory for each state was gathered from Quick Stats 2.0. On December 1, 2008, Nebraska had 3.35 million head shown in *Table 9* of this research bulletin. When divided by the total number of hogs and pigs in the U.S., Nebraska had 4.91 percent of the U.S. total. This was multiplied by 1.619 billion bushels of corn consumed by hogs and pigs in the U.S. to arrive at 79.5 million bushels for Nebraska as shown in *Table 10* in this research bulletin. Similar calculations were performed for each state.

**Table 11. Poultry, Head by State and U.S., 2004-2010**

**Source:** Poultry inventory data was gathered from the USDA's National Agricultural Statistics Service (NASS) publications. The poultry category includes chickens, broilers, and turkeys. The publication titled *Chicken and Eggs 2009 Summary* published in February 2010 had the chicken numbers on reference page 43. Another publication, titled *Poultry — Production and Value 2009 Summary*, had the broiler numbers on reference pages 2 and 3, and turkey numbers on reference pages 6 and 7. All the three figures were added to arrive at the total number in each state.

In 2008, Nebraska had 18.957 million head of poultry which turned out to be all chickens that year. When divided by the U.S. total, Nebraska's share was 0.195 percent of all poultry. When multiplied by 1.928 billion bushels consumed by poultry in the U.S., 3.75 million bushels of corn were consumed in Nebraska as shown in *Table 12* of this research bulletin. Similar calculations were performed for each state.

**Chickens:** Number, Value per Head, and Total Value by State, Chicken and Eggs Annual Summary, National Agricultural Statistics Service, USDA.

<http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1509>

The screenshot shows the USDA National Agricultural Statistics Service (NASS) website. At the top, the USDA logo and the text "United States Department of Agriculture" are visible, along with the heading "Economics, Statistics, and Market Information System". A navigation bar includes links for Home, About Us, Calendar, Reports by Email, Cornell University Mann Library, and Help. Below the navigation bar is a search interface with a search box containing "chicken and eggs ar" and a "Go" button. There are checkboxes for "Title Search" and "Include AMS titles", and links for "Advanced Search" and "Search Tips". A "Browse by Agency" section has a dropdown menu for "Select an agency" and a "Go" button. A "Browse by Subject" section lists various categories: Baseline, Commodities, Field Crops, Economics and Management, Livestock, Dairy, and Poultry, Specialty Agriculture, Trade and International, Weather, and Market News. The "Livestock, Dairy, and Poultry" category is expanded, showing sub-categories like "Commodities", "Poultry", "Livestock, Dairy, and Poultry", and "Poultry". The main content area features the "National Agricultural Statistics Service" logo and a description: "This is an archive and email subscription service for reports issued by NASS. The official website is www.nass.usda.gov with other data services." Below this is the title "Chickens and Eggs Annual Summary" and a description: "This file contains the monthly estimates of the number of layers on hand, rate of lay and egg production, potential layers by geographic regions, and chicken inventories and values by states." The "Publication Dates" are listed as "Jan 30, 1995 To Feb 25, 2011". A "Note" states: "This publication is available via email subscription. Select the Reports by Email link in the header to subscribe to this title." There are two sections: "Current Documents" and "Archived Documents". The "Current Documents" section lists several files: "Chickens and Eggs Annual Summary, 02.25.2011 [pdf]", "Chickens and Eggs Annual Summary, 02.25.2011 [txt]", "Chickens and Eggs Annual Summary, 02.25.2011 [zip]", "Chickens and Eggs Annual Summary, 02.25.2011\_new\_format [pdf]", "Chickens and Eggs Annual Summary, 02.25.2011\_new\_format [txt]", and "Chickens and Eggs Annual Summary, 02.25.2011\_new\_format [zip]". The "Archived Documents" section is currently empty. On the right side of the page, there are two sidebars: "Subject Headings" with a tree view showing "Commodities", "Poultry", "Livestock, Dairy, and Poultry", and "Poultry"; and "See Also" with a list of related documents: "Chickens and Eggs", "Chickens and Eggs - Final Estimates", "U.S. Broiler and Egg Production Cycles", and "Turkeys and Chickens Tested".

**Broilers:** Production, Price, and Value, by State and Total, Poultry: Production and Value Annual Summary, National Agricultural and Statistics Service, USDA.

**Turkeys:** Production, Price, and Value, by State and Total, Poultry: Production and Value Annual Summary, National Agricultural and Statistics Service, USDA.

<http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1130>



Quick Search  
Poultry production

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 Advanced Search  
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Select an agency

Browse by Subject

- ▶ Baseline
- ▶ Commodities
- ▶ Field Crops
- ▶ Economics and Management
- ▶ Livestock, Dairy, and Poultry
- ▶ Specialty Agriculture
- ▶ Trade and International
- ▶ Weather
- ▶ Market News



## National Agricultural Statistics Service

This is an archive and email subscription service for reports issued by NASS. The official website is [www.nass.usda.gov](http://www.nass.usda.gov) with other data services.

### Poultry Production and Value

This full-text file presents the annual estimates of production and value for commercial broilers, eggs, turkeys raised, and chickens sold by states and U.S. This report is a supplement to Broiler hatchery, Chickens and eggs, and Turkey hatchery.

*Continues Poultry Production, Disposition, and Income.*

**Publication Dates:** Apr 01, 1986 To Apr 28, 2011

**Note:** This publication is available via email subscription. Select the Reports by Email link in the header to subscribe to this title.

#### Current Documents

- Poultry Production and Value, 04.28.2011 [pdf]
- Poultry Production and Value, 04.28.2011 [txt]
- Poultry Production and Value, 04.28.2011 [zip]
- Poultry Production and Value, 04.28.2011\_new\_format [pdf]
- Poultry Production and Value, 04.28.2011\_new\_format [txt]
- Poultry Production and Value, 04.28.2011\_new\_format [zip]

#### Archived Documents

Subject Headings

- ▶ Commodities
  - ▶ Poultry
- ▶ Livestock, Dairy, and Poultry
  - ▶ Poultry

See Also

- ▶ Poultry Slaughter
- ▶ Poultry Slaughter Annual Summary
- ▶ Poultry Production and Value - Final Estimates
- ▶ Poultry and Egg Outlook and Situation
- ▶ Pullet Chicks for Broiler Hatchery Supply Flocks
- ▶ Poultry Production, Disposition, and Income
- ▶ Poultry: Production, Disposition & Income
- ▶ Poultry and Egg Outlook
- ▶ Poultry and Poultry Products
- ▶ Special Outlook Report for Turkeys
- ▶ Livestock and Poultry Situation Outlook

## Other Livestock

The bushels of corn consumed by dairy cattle, cattle on feed, other cattle and calves, hogs and pigs, and poultry were summed to arrive at a subtotal. The subtotal was used to estimate Nebraska's share of corn consumed in the sixth category, other livestock. For the year 2008, the estimates for each of the five types of livestock along with the subtotal are shown in *Table 17* of this research bulletin. In Nebraska, the subtotal of 352,685 thousand bushels was divided by the U.S. subtotal of 5,818,827 thousand bushels to arrive at Nebraska's share of 6.06 percent. This was multiplied by 0.039 billion bushels consumed in the U.S. by other livestock to arrive at 2.35 million bushels of corn consumed by other livestock in Nebraska. The subtotal for the first five categories was added to consumption by other livestock to give an estimated 355 million bushels of corn consumed by all livestock in Nebraska. Similar calculations were done for each state.



## Tables 13-19. Livestock and Poultry Corn Consumption by Animal Type, by State and U.S., 2004-2010

### Table 20. Total Livestock and Poultry Corn Consumption, by State and U.S., 2004-2010

Tables 13-19 and 20 were tabulated from the estimates made in previous tables.

## Food and Industrial Use

### Table 21. Corn Wet Mills, Excluding Ethanol Capacity, by State, 2005 and 2008

**Source:** Galitsky, Worrell and Ruth. *Energy Efficiency Improvement and Cost Saving Opportunities for the Corn Wet Milling Industry*, Appendix A: Estimated corn wet milling company capacities grouped by main product, page number 72.

A list of wet mill corn processing plants and their respective capacities was obtained from a report titled, *Energy Efficiency Improvement and Cost Saving Opportunities for the Corn Wet Milling Industry*, by C. Galitsky, E. Worrell, and M. Ruth, page 72. The authors acknowledged Steve Eckhoff as the source of that data.

### Table 22. Corn Dry Mills, by State, 2004 and 2008

**Source:** *Other U.S. Grain Mills, Grain and Milling Annual*, Sosland Publishing, 2008, 2009, and 2010. Personal communication with Dana Holt from Sosland Publishing Co., Kansas City, Mo., Sept. 23, 2010.

A list of dry mill corn processing plants and their respective capacities was put together with information from several sources. The majority of the information came from the *Grain and Milling Annual* published every year by the Sosland Publishing Company ([www.sosland.com](http://www.sosland.com)). Personal communication was held with those companies that did not indicate their capacity in the *Grain and Milling Annual* in order to determine their respective capacities. Included were only those mills verified to be processing corn at the time of this writing. The dry milling industry was constantly changing with mills closing down, merging, and others opening on a frequent basis. The dry mill corn processing plants reported their capacities in terms of a daily grind reported in hundred weight (cwt). It was assumed that the mills operate at 90 percent capacity and for 325 days in a year. The daily grind capacity was multiplied by 325 in order to get the total quantity of corn utilized by the dry mill corn processing plants.

### Tables 23 and 24. Beverage Alcohol Distilleries, by State, 2002 and 2007

The 2002 and 2007 Economic Census gave a list of distilleries, by state, with their respective number of employees or range of employees. Data in *Tables 23* and *24* show each state's share of employees, relative to the total for all states with distilleries, as an estimate of the state's capacity for producing beverage alcohol. Actual capacity figures were not available. The state's share of employees was used to estimate the respective amount of corn each state used for beverage alcohol. The estimates in *Table 23* were for the years 2004-06, and those in *Table 24* were for 2007-10.

**Source:** U.S. Census Bureau, data based on the 2002 Economic Census

[http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ECN\\_2002\\_US\\_31A1&prodType=table](http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ECN_2002_US_31A1&prodType=table)  
 A pdf version of the table appears as follows:

**U.S. Census Bureau**

**AMERICAN FactFinder**

EC0231A1 | Manufacturing: Geographic Area Series: Industry Statistics for the States, Metropolitan and Micropolitan Statistical Areas, Counties, and Places: 2002  
 2002 Economic Census

[NOTE: Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology. Data in this table represent those available when this report was created; data may not be available for all NAICS industries or geographies. Data in this table may be subject to employment- and/or sales-size minimums that vary by industry.]

Geographic area 2002 NAICS code name	2002 NAICS code	Meaning of 2002 NAICS code	Year code	Percent estimated	Number of establishments	Number of establishments with 20 employees or more	Number of employees	Annual payroll (\$1,000)	Production workers, average for year	Production workers hours (1,000)	Production workers wages (\$1,000)
Arkansas	312140	Distilleries	2002	0	1	1	c	D	D	D	D
California	312140	Distilleries	2002	9	9	3	e	D	D	D	D
Florida	312140	Distilleries	2002	3	3	3	f	D	D	D	D
Illinois	312140	Distilleries	2002	9	3	1	e	D	D	D	D
Kentucky	312140	Distilleries	2002	1	16	14	2,061	88,915	1,416	2,885	51,595
Maine	312140	Distilleries	2002	9	1	1	c	D	D	D	D
Maryland	312140	Distilleries	2002	0	4	3	e	D	D	D	D
Massachusetts	312140	Distilleries	2002	9	4	1	c	D	D	D	D
Minnesota	312140	Distilleries	2002	0	1	1	c	D	D	D	D
Missouri	312140	Distilleries	2002	0	2	2	c	D	D	D	D
Ohio	312140	Distilleries	2002	0	3	2	e	D	D	D	D
Pennsylvania	312140	Distilleries	2002	9	4	1	c	D	D	D	D
Tennessee	312140	Distilleries	2002	0	4	2	e	D	D	D	D

c 100 to 249 employees  
 D Withheld to avoid disclosing data for individual companies; data are included in higher level totals  
 e 250 to 499 employees  
 f 500 to 999 employees

**Source:** U.S. Census Bureau, data based on the 2007 Economic Census

<http://www.census.gov/econ/industry/geo/g312140.htm>

**U.S. Census Bureau**

**Industry Statistics Sampler**

You are here: [Census.gov](#) > [Business & Industry](#) > [Industry Statistics Sampler](#) > NAICS 312140

Navigate to another industry

**NAICS 312140**  
**Distilleries**

**Geographic Distribution -- Distilleries: 2007**

See maps in [Industry Snapshot](#)

Data for manufacturing industries are published for the U.S., states with 100+ employees, metropolitan areas with 250+ employees, and counties and cities with 500+ employees. Counts of establishments are also published for states with 100+ employees, metropolitan areas with 250+ employees, and counties and cities with 500+ employees. Table includes only establishments of firms with payroll. Nonemployers are shown in the tab to the left. [Introductory text](#) includes scope, methodology, non-sampling error, and confidentiality protection. For descriptions of column headings and rows (industries), click on the appropriate underlined element in the table.

Description	Estab-lish-ments	Value of shipments (\$1,000)	Value of shipments % of U.S.	Value of shipments per capita (\$)	Annual payroll (\$1,000)	Paid employees
United States	97	7,062,109	100.00	23	429,548	8,820
Kentucky	15	2,459,131	34.82	578	111,351	2,391
All other states, including those below	82	4,602,978	65.18		318,197	6,429
Indiana	1	D			D	(1000-2499)
California	14	D			D	(250-499)
Illinois	2	D			D	(250-499)
Maine	3	D			D	(250-499)
Massachusetts	5	D			D	(250-499)
Missouri	2	D			D	(250-499)
Ohio	3	D			D	(250-499)
Tennessee	4	D			D	(250-499)
Minnesota	1	D			D	(100-249)
Pennsylvania	3	D			D	(100-249)
Florida	6	D			D	613
Maryland	3	D			D	366

To download this display, use your browser's "File...Save Page As" functionality to save this file in html form to your local drive, then open that file directly in your spreadsheet software.



## Table 25. Ethanol Plant Capacity Using Corn for a Feedstock, by State and U.S., 2004-2010

**Source:** *Ethanol Production by State and Plant Capacity* was obtained from the website of the Nebraska Energy Office.

[http://www.neo.ne.gov/statshhtml/122\\_201009.htm](http://www.neo.ne.gov/statshhtml/122_201009.htm)

**Official Nebraska Government Website**

### Ethanol Facilities Capacity by State and Plant

As of September 2010, the United States had the [nameplate capacity](#) to produce 13,765.4 million (13.8 billion) gallons of ethanol, operating refineries producing 12,935.9 million (12.9 billion) gallons of ethanol per year, and had construction or expansion plans for an additional 837 million (0.8 billion) gallons. There were 204 refineries. If no operating production is listed in the table below, the plant has been [idled](#). Nebraska's nameplate capacity was 1,764 million gallons, or 13 percent, of the nation's nameplate capacity. Nebraska's operating production was 1,739 million gallons, or 13 percent, of the nation's operating production. Nebraska had construction or expansion plans for an additional 113 million gallons of capacity.

The [ethanol section](#) of the state energy office's energy statistics has more information.

See the [archive](#) for reports from prior months.

#### Fuel Ethanol Facilities Capacity by State and by Plant

(Million Gallons Per Year as of September 2010)

State Company	Location	Nameplate Capacity	Operating Production	Under Construction/ Expansion Capacity
<b>United States</b>		13,765.4	12,935.9	837.0
<b>Arizona</b>				
Pinal Energy, LLC	Maricopa, AZ	55.0	55.0	NA
Arizona Total		55.0	55.0	NA
<b>California</b>				

Ethanol production capacity by plant and state was collected for September of the respective year. The archive link gave estimates for each month and year. Current capacity was used for the years 2005-2007; operating capacity for 2008; and the name plate capacity for 2009-2011. For some years, the capacity given on the website for the United States was greater than the sum of the capacity for each state. The latter sum and state-level estimates were used for this research bulletin.

## Tables 26-32. Food and Industrial Use, by State and U.S., 2004-2010

**Source:** *Feed Grain Database: Yearbook Tables, Corn: Food, Seed, and Industrial Use*, Table 31, Economic Research Service, USDA.

High Fructose Corn Syrup (HFCS), glucose and dextrose, and starch were allocated according to wet mill capacities in each state. Beverage alcohol, cereals and other products were allocated according to dry mill capacities in each state.

<http://www.ers.usda.gov/Data/Feedgrains/FeedYearbook.aspx>

USDA United States Department of Agriculture  
**Economic Research Service**  
 The Economics of Food, Farming, Natural Resources, and Rural America

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## Data Sets

### Feed Grains Database: Yearbook Tables

The tables previously published annually in the *Feed Yearbook* are available as part of the Feed Grains Database. The tables will contain new information as data are added to the database. Additional historical data can be retrieved from the database using [Custom Queries](#).

For help understanding the datasets, see the [Documentation](#).

**Data**

- U.S. Acreage, Production, Yield, and Farm Price
- World Production, Supply, and Disappearance
- U.S. Supply and Disappearance
- U.S. Hay Production, Harvested Acreage, Yield, and Stocks
- Domestic and International Prices
- Exports and Imports
- Rail Rates and Grain Shipments
- Processed Feeds and Grain-Consuming Indexes
- Corn Feed, Seed, and Industrial Uses
- Other Exports and Imports

**Contents:**

- [Feed Grains Database](#)
- [Yearbook Tables](#)**
- [Custom Queries](#)
- [Download Data](#)
- [Documentation](#)

Feed Yearbook Tables	Last Updated
All tables in one file:	
Recent (contains latest 5-10-15 years of data): <a href="#">Excel</a> <a href="#">PDF</a>	
Historical (provides entire time series for the data): <a href="#">Excel</a> <a href="#">PDF</a>	
<b>Corn Feed, Seed, and Industrial Uses</b>	
<a href="#">Table 31--Corn: Food, seed, and industrial use</a>	October 12, 2011

The food and industrial uses of corn were listed by six categories in *Table 31*. For 2008, the table listed corn consumption, in million bushels, as follows:

HFCS	Glucose and Dextrose	Starch	Alcohol		Cereals and Other Products
			Fuel	Beverage	
522.77	255.96	264.66	3049.21	135.40	192.40

In general, high fructose corn syrup (HFCS), glucose and dextrose, and starch are processed in wet mills. Ethanol (fuel alcohol) was processed in ethanol plants. Beverage alcohol, cereals and other products were processed in dry mills. In order to allocate the bushels consumed in each of these categories to individual states, the capacity of each dry mill, wet mill, and ethanol plant was used.

### Wet Mills

The bushels of corn consumed in the food and industrial category were allocated to each state’s percentage of the industry’s capacity. For example in 2008, Nebraska’s 24-hour, wet-mill grind capacity was 475,000 cwt (hundred weight) and the nation’s capacity was 4.54 cwt. Nebraska’s share was 10.46 percent of the nation’s total. See *Table 21* in this research bulletin. Since HFCS, glucose and dextrose, and starch are manufactured at wet mills, and using the national figures from *Table 31* of the *Feed Grains Database: Yearbook*, it was estimated that Nebraska mills consumed 54.6 million bushels of corn in 2008 for HFCS; 26.7 million bushels for glucose and dextrose; and 27.6 million bushels for starch. See the respective columns for *Table 30* in this research bulletin. This calculation was performed for each state with wet mills.

### Dry Mills

In 2008, Nebraska’s 24-hour, dry-mill grind capacity was 63,000 cwt and the nation’s capacity was 734,805 cwt which meant Nebraska’s share was 8.57 percent of the nation’s total. See *Table 22* in this research bulletin. Since cereals and other products are manufactured at dry mills, and using the national figures from *Table 31* of the *Feed Grains Database: Yearbook*, it was estimated that Nebraska mills consumed 16.49 million bushels for cereals and other products. See the respective columns for *Table 30* in this research bulletin. This calculation was also performed for each state with dry mills.

### Ethanol Plants

In 2008, Nebraska’s ethanol plant capacity was 1,296 million gallons per year, and the nation’s capacity was 10,213 million gallons per year. See *Table 25* in this research bulletin. Nebraska’s share of the nation’s total was 12.69 percent. This percentage was multiplied by the 3,049 million bushels used in the industry (*Table 31* in the *Feed Grains Database: Yearbook*) to determine that Nebraska used 387 million bushels to make fuel alcohol. See the Fuel Alcohol column for *Table 30* in this research bulletin. This calculation was performed for each state with ethanol plants.

### Beverage Alcohol

In 2008, the U.S. amount of corn estimated by USDA that goes into beverage alcohol was 135.4 million bushels (*Table 31* in the *Feed Grains Database: Yearbook*). As an example, from *Table 24* Kentucky had a 37.8 percent share of all the U.S. employees. In *Table 30* for 2008, the estimated result for Kentucky was 51.225 million bushels. This calculation was performed for each state with distilleries.

By adding the bushels together for each milling process, each state’s corn use for the food and industrial category was determined. For example, in 2008 Nebraska consumed an estimated 524 million bushels of corn for food and industrial uses. See the Total column for *Table 30* in this research bulletin.

## Table 31. Total Food and Industrial Use, by State and U.S., 2004-2010

Table 31 was tabulated from estimates made in previous tables.

## Acres Planted and Seed Use

### Table 34. Acres Planted to Corn, by State and U.S., 2004-2010

**Source:** Corn Area Planted, Census of Agriculture, Quick Stats 2.0, National Agricultural Statistics Service, USDA.

<http://quickstats.nass.usda.gov/> Follow the instructions shown in Table 1.

### Table 35. Seed Use for Corn, by State and U.S., 2004-2010

**Source:** Feed Grain Database: Yearbook Tables, Corn: Food, Seed, and Industrial Use, Table 31, Economic Research Service, USDA.

<http://www.ers.usda.gov/Data/Feedgrains/FeedYearbook.aspx> Follow the instructions shown for Table 4.

State seed use estimates were based on each state's share of acres planted, relative to U.S. acres planted, and that share applied to total seed use in the U.S. For example, in the spring of 2008 there were 9.40 million acres of corn planted in Nebraska and 93.527 million acres for the U.S. Nebraska's share was 10.05 percent. Total seed use in the U.S. was 21.848 million bushels. Multiplying 10.05 percent times 21.848 million bushels planted gave seed use in Nebraska of 2.195 million bushels. Similar calculations were done for each state.

## Domestic Supply, Use and Net Surplus or Deficit

### Table 36-42. Domestic Supply, Use, and Net Surplus or Deficit, by State and U.S., 2004-2010

Tables 36-42 were tabulated from estimates made in previous tables.

### Table 43. Corn Net Surplus or Deficit, by State, 2004-2010

Net Surplus or Deficit = Beginning Stocks + Corn Production - Livestock and Poultry Consumption - Food and Industrial - Seed Use - Ending Stocks

Net surplus was an estimate of the amount of corn available for movement to net deficit states or into the export market.

# Inspected for Export

## Tables 44-51. Corn Inspected and/or Weighed for Export, by Region and Port Area, 2004-2010

**Source:** Agricultural Marketing Service, USDA, Market News, Grain National Reports. From the Grain National Report List, select Grains Inspected/Wtd for Export by Region and Port Area (Monthly) and then choose a month and year.

*http://www.ams.usda.gov/AMSV1.0/ams.fetchTemplateData.do?template=TemplateW&navID=RN2L1NGrain&rightNav1=RN2L1NGrain&topNav=&leftNav=MarketNewsAndTransportationData&page=SearchGrainNationalReports&resultType=&acct=lsmn*

The screenshot shows the USDA Agricultural Marketing Service website. At the top is a banner with the USDA logo and various agricultural images. Below the banner is a navigation menu with links: Home, About AMS, Newsroom, Opportunities, Online Forms, Help, and Contact Us. On the left side, there is a 'Search AMS' sidebar with a search box and a 'Go' button. Below the search box are links for 'Advanced Search', 'Search Tips', and 'Market News Search'. Under 'Browse by Subject', 'Market News' is selected. The main content area shows the breadcrumb 'You are here: Home / Market News / Search Grain Archives' and a green header for 'Market News'. Below this is the 'Search Grain National Reports' section, which includes a note about Adobe Acrobat Reader. The 'Grain National Report List' section has a dropdown menu set to 'Grains Inspected/Wtd for Export by Region & Port Area (Monthly)'. Below this are dropdown menus for 'Choose Month' (set to January) and 'Choose Year' (set to 2010), followed by a 'Go' button. The search results section shows 'Search Results (Showing Results 1-1 of 1 results)' and a single result: '[TXT] WA\_GR107 1/4/2010'.

## Table 51. Corn Inspected and/or Weighed for Export, by Region and Port Area, 2004-2010

Table 51 was tabulated from estimates made in previous tables.



# Prices

## Table 52. Corn Prices, by State, 2004-2010

**Source:** Census of Agriculture Database, Quick Stats 2.0, National Agricultural Statistics Service, USDA. Price received for corn in dollars per bushel, Marketing Year.

<http://quickstats.nass.usda.gov/> Follow instructions shown in Table 1.

## Tables 53-54. Corn Export Bids at Selected Ports of Export, 2004-2007

**Source:** Agricultural Marketing Service, USDA. From the Grain West Report List select Export Grain Bids and then choose a month and year. A mid-month date was used to report the bids. The average price was used when a range was reported.

<http://www.ams.usda.gov/AMSv1.0/ams.fetchTemplateData.do?template=TemplateW&navID=RN2StateGrainL3&rightNav1=RN2StateGrainL3&topNav=&leftNav=MarketNewsAndTransportationData&page=SearchGrainWestReports&resultType=&acct=lsmn>

The screenshot shows the USDA Agricultural Marketing Service website. The header includes the USDA logo and navigation links: Home, About AMS, Newsroom, Opportunities, Online Forms, Help, and Contact Us. A search bar is located in the top left. The main content area is titled 'Market News' and features a search for 'Export Grain Bids' in January 2010. The search results show 19 results, with the first 10 displayed as a list of links for each day from January 15, 2010, to January 29, 2010. Each link is labeled '[TXT ] JO\_GR850' followed by the date.

USDA United States Department of Agriculture  
Agricultural Marketing Service  
USDA ORGANIC

Home About AMS Newsroom Opportunities Online Forms Help Contact Us

You are here: Home / Market News / Search Western Grain Archives

### Market News

#### Search Grain West Reports

In order to view or print PDF files, you must have Adobe [Acrobat Reader](#) installed on your computer.

**Grain West Report List :**  
Export Grain Bids

**Choose Month :**  
January

**Choose Year :**  
2010

Search Results (Showing Results 1-10 of 19 results )

- [TXT ] [JO\\_GR850 1/29/2010](#)
- [TXT ] [JO\\_GR850 1/28/2010](#)
- [TXT ] [JO\\_GR850 1/27/2010](#)
- [TXT ] [JO\\_GR850 1/26/2010](#)
- [TXT ] [JO\\_GR850 1/25/2010](#)
- [TXT ] [JO\\_GR850 1/22/2010](#)
- [TXT ] [JO\\_GR850 1/21/2010](#)
- [TXT ] [JO\\_GR850 1/20/2010](#)
- [TXT ] [JO\\_GR850 1/19/2010](#)
- [TXT ] [JO\\_GR850 1/15/2010](#)

# Exports and Imports

## Tables 55 and 56. Exports and Value of Corn from the U.S. to the Top 20 Countries, 2004–2010

**Source:** Global Agricultural Trade System (GATS) database, Foreign Agricultural Service, USDA. For respective tables on exports and imports, metric tons (MT) were converted to bushels by using 39.3679 bushels/metric ton.

The path started with <http://www.fas.usda.gov/gats/> and pressed on *Standard Query*.

This led to: <http://www.fas.usda.gov/gats/ExpressQuery1.aspx>

This led to: <http://www.fas.usda.gov/gats/ExpressQuery1.aspx>



The following choices were made from the respective menu boxes:

**Product Type** — Exports

**Product Groups** — FATUS

**Partners** — All Partners

**Products** — Corn

**Statistics** — Value: Value and Thousands; Quantity: Quantity and FAS Non-Converted

**Dates** — Series: Annual; Monthly Range: Sep - Aug; Year Range: 2004 - 2010; End of month: Aug

**Settings** — Include: Top 20; Order By: Rank

## Table 57. Unit Value of Corn Exports from the U.S. to the Top 20 Countries, 2004-2010

The unit values for each country and year were estimated by dividing the value of corn exports in *Table 56* by the respective exports of corn in *Table 55*.

## Table 58. Exports Corn from Major Countries Outside the U.S., 2004–2010

**Source:** Production, Supply and Distribution Online, Foreign Agricultural Service, USDA.

<http://www.fas.usda.gov/psdonline/psdQuery.aspx>

The screenshot shows the USDA PSD Online interface. The header includes the USDA logo and the text "United States Department of Agriculture Foreign Agricultural Service" and "Production, Supply and Distribution Online". The navigation bar contains links for "PSD Online Home", "About PSD Online", "Help", and "Contact Us". The breadcrumb trail reads "You are here: FAS Home / Market and Trade Data / PSD Online Home / Custom Query".

The main search area is divided into four columns: Commodity, Data Type, Country, and Year. The "Commodity" column has a filter set to "All Commodities" and a list of options with "Corn" selected. The "Data Type" column has a list of options with "Exports" selected. The "Country" column has a list of countries with "WORLD TOTAL" selected. The "Year" column has a list of years with "2010" selected.

Below the search area are "Report Options" including "Column: Year", "Sort Order: Commodity/Attribute/Country", and a checked box for "Top 20 Countries". At the bottom, there are checkboxes for "File Format", "Include Codes", "Include Previous Month", "Include Month Change", and "Include Year Change". Two buttons, "Run Query" and "Reset Form", are located at the bottom right.

## Table 59. Imports of Corn by Major Countries Outside the U.S., 2004–2010

The website above was used with *Data Type* choice of TY (trade year) Imports.