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National Agricultural Statistics Service

## CURRENT AGRICULTURAL INDUSTRIAL REPORTS

USDA Agricultural Outlook Forum Troy Joshua, Chief<br>Environmental, Economics, and Demographics Branch

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## Objectives

- Discuss the history of the Current Industrial Reports (CIR)
- Discuss NASS Current Agricultural Industrial Reports (CAIR)
- Grain Crushings and Co-products Production Publication
- Update on the other CAIR programs


## History of U.S. Census Bureau's Current Industrial Reports (CIR)

- Conducted by U.S. Census Bureau from 19042011
- Purpose was to provide regular estimates of production, shipments, inventories, and consumption of specific manufacturing products


## History of U.S. Census Bureau's

 Current Industrial Reports (CIR) (cont'd)- 125 CIR surveys which covered commodity areas as diverse as textiles, apparels, chemicals, electronic components.
- Reduced to 47 surveys, which covered 40,000 establishments and $1 / 3$ of the total manufactured products produced in the U.S.
- Terminated by the Census Bureau in 2011 to secure funding for new programs.


## NASS's Current Agricultural Industrial Reports (CAIR)

- Congress mandated and appropriated funds for NASS to reinstate industrial surveys relating to agricultural sectors in 2014.
- Why? Vital to a variety of agricultural stakeholders for planning and decision making.


## Current Agricultural Industrial Reports

- Sectors Covered
- Grain Crushings and Co-products Production
- Dry and Wet Mill
- Flour Milling
- Cotton Spinning
- Fats and Oils
- Oilseed Crushings
- Fact-based reports on production, consumption, and stocks.


## Usage of CAIR

- Data users include but not limited to:
- United States Bureau of Economic Analysis- to prepare quarterly estimates of Gross National Product.
- United States Department of Agriculture- to provide regular estimates of production, shipments, inventories, and consumption of specific manufacturing products.
- United States Bureau of Labor and Statistics- to develop price indexes and estimates of productivity.


## Usage of CAIR (cont'd)

- Federal Reserve Board- to prepare monthly indexes of industrial production.
- International Trade Administration- to monitor the effects of international trade on domestic production and meet responsibilities under the Trade Act, assess production trends, and forecast future industrial activity.
- Private Industry- to monitor the effects of international trade on domestic production, evaluate relationship between company and industry performances, conduct market analyses, assess current business conditions, and plan future operations.


## Grain Crushings and Co-products Production Publication

## Dry and Wet Mill Producers Survey Program Changes

- Formerly part of the Crushings Report (Corn)
- Added wheat and sorghum inputs
- Added co-products produced
- $\mathrm{CO}_{2}$ captured
- Differentiate corn oil between edible and nonedible
- High fructose corn syrup
- Starch, glucose and dextrose


## Outreach Efforts

- NASS built and will maintain a list of all known ethanol mills.
- An operation profile was completed for each facility to determine the presence of dry and/or wet ethanol milling during 2014.
- collected for the nameplate production capacity
- documented the manner in which the mill(s) will report
- the headquarters can report for all milling locations or each location can report separately
- Primary and secondary contacts were established for the actual Dry and Wet Mill Producers surveys.


## Dry and Wet Mill Facilities

- All operations on the list which will produce ethanol will be selected for the monthly Dry and Wet Mill Producers Survey.
- Grains used as feedstock
- Products produced
- Co-products produced
- Cellulosic ethanol facilities (woodchips, stover, etc.) are not included.


## 2014 Data Collection

- NASS mailed 147 questionnaires for the Dry and Wet Mill Facilities.
- 136 Dry
- 11 Wet


## Mode of Data Collection

October, 2014
November, 2014

December, 2014

$10 \%$ increase in web reporting from October to December.Face-to-FaceWeb surveyEmail Fax

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## Coverage of Nameplate Capacity

October, 2014


November, 2014


December, 2014


## Dry Mill Producers Survey

| 1. Feedstock used in this mill | Unit of measure |
| :--- | :--- |
| a. Total Corn used to produce alcohol | 1,000 Bushels |
| (i) Corn used to produce beverage alcohol | 1,000 Bushels |
| (ii) Corn used to produce industrial alcohol | 1,000 Bushels |
| (iii) Corn used to produce fuel alcohol | 1,000 Bushels |
| b. Total Sorghum used to produce alcohol | 1,000 Hundredweight |
| (i) Sorghum used to produce beverage alcohol | 1,000 Hundredweight |
| (ii) Sorghum used to produce industrial alcohol | 1,000 Hundredweight |
| (iii) Sorghum used to produce fuel alcohol | 1,000 Hundredweight |
| c. Total Wheat used to produce alcohol | 1,000 Bushels |
| (i) Wheat used to produce beverage alcohol | 1,000 Bushels |
| (ii) Wheat used to produce industrial alcohol | 1,000 Bushels |
| (iii) Wheat used to produce fuel alcohol | 1,000 Bushels |

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## Dry Mill Producers Survey (cont'd)

1. Feedstock used in this mill
d. Other feedstock or blend of feedstock used to produce alcohol (Specify: $\qquad$
(i) Other feedstock used to produce beverage alcohol
(ii) Other feedstock used to produce industrial alcohol
(iii) Other feedstock used to produce fuel alcohol

## Unit of measure

1,000 Bushels

1,000 Bushels

1,000 Bushels

1,000 Bushels
2. Co-products produced - including moisture
a. Distillers wet grain (DWG) $65 \%$ or more moisture Tons
b. Modified distillers wet grain (DWG) $40 \%$ to $64 \%$
moisture
c. Distillers dried grains with solubles (DDGS) Tons
d. Distillers dried grains (DDG) Tons
e. Condensed distillers solubles (CDS -- syrup) Tons
f. Corn oil Tons
g. CO - 2 (captured for industrial use) Pounds
h. Other co-products ( Specify__ T Tons

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## Wet Mill Producers Survey

Unit of measure
a. Total Corn used to produce alcohol or other products

1,000 Bushels
(i) Corn used to produce beverage alcohol

1,000 Bushels
(ii) Corn used to produce industrial alcohol

1,000 Bushels
(iii) Corn used to produce fuel alcohol

1,000 Bushels
(iv) Corn used to produce other products

1,000 Bushels
b. Other feedstock or blend of feedstock used ( Specify: $\qquad$ )
(i) Other feedstock used to produce beverage alcohol

1,000 Bushels
(ii) Other feedstock used to produce industrial alcohol
(iii) Other feedstock used to produce fuel alcohol

1,000 Bushels
(iv) Other feedstock used to produce other products

1,000 Bushels

| (iii) Other feedstock used to produce fuel |
| :---: | :---: |
| alcohol |$\quad 1,000$ Bushels | (iv) Other feedstock used to produce other |
| :---: |
| products |

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## Wet Mill Producers Survey

| 2. Wet mill products produced | Unit of measure |
| :---: | :---: |
| a. Corn oil | Tons |
| b. High Fructose Corn Syrup 42\% | Tons |
| c. High Fructose Corn Syrup 55\% | Tons |
| d. Glucose \& Dextrose | Tons |
| e. Starch | Tons |
| 3. Co-products produced - including moisture |  |
| a. Corn gluten meal | Tons |
| b. Corn gluten feed | Tons |
| c. Wet corn gluten feed $40 \%$ to $60 \%$ moisture | Tons |
| d. Corn germ meal | Tons |
| e. Steep water (liquor) | Tons |
| f. CO-2 (captured for industrial use) | Pounds |
| g. Other co-products (Specify: | Tons |

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Results

Dry Mill Co-products Production


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## Results

## Wet Mill Co-products Production



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## Dry and Wet Mill Corn Consumed

| Purpose | October 2014 <br> $(1,000$ bu) | November 2014 <br> $(1,000$ bu) | December 2014 <br> $(1,000$ bu) |
| :--- | ---: | ---: | ---: |
| Consumed for alcohol production |  |  |  |
| Beverage alcohol | 4,200 | 2,975 | 2,364 |
| Fuel alcohol | 427,347 | 433,939 | 455,956 |
| Dry mill | 381,881 | 388,410 | 406,684 |
| Wet mill | 45,466 | 45,529 | 49,272 |
| Industrial alcohol | 5,664 | 6,293 | 6,953 |
| Total | 437,211 | 443,207 | 465,273 |
| Consumed for other purposes |  |  |  |
| Total wet mill products other than fuel | 39,384 | 41,855 | 44,866 |

## Dry Mill Sorghum Consumed

| Purpose | October 2014 <br> $(1,000 \mathrm{cwt})$ | November 2014 <br> $(1,000 \mathrm{cwt})$ | December 2014 <br> $(1,000 \mathrm{cwt})$ |
| :--- | ---: | ---: | ---: |
| Consumed for alcohol production |  |  |  |
| Fuel alcohol | 1,900 | 2,070 | 889 |

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## Dry and Wet Mill Co-products and Products Produced

| Co-products and products | October 2014 (tons) | November 2014 (tons) | $\begin{aligned} & \text { December } 2014 \\ & \text { (tons) } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Dry mill |  |  |  |
| Condensed distillers solubles (CDS-syrup) | 149,960 | 132,236 | 172,082 |
| Corn oil | 107,516 | 107,190 | 97,380 |
| Distillers dried grains (DDG) | 420,226 | 419,028 | 448,551 |
| Distillers dried grains with solubles (DDGS) | 1,856,472 | 1,770,904 | 1,919,823 |
| Distillers wet grains (DWG) 65\% or more moisture | 1,333,264 | 1,354,729 | 1,411,411 |
| Modified distillers wet grains (DWG) 40\% to 60\% moisture | 413,040 | 472,819 | 503,258 |
| Total | 4,280,478 | 4,256,906 | 4,552,505 |

## Dry and Wet Mill Co-products and Products Produced

| Co-products and products | October 2014 <br> (tons) | November 2014 <br> (tons) | December 2014 <br> (tons) |
| :--- | ---: | ---: | ---: |
| Wet mill |  |  |  |
| Corn germ meal | 78,674 | 66,384 | 75,031 |
| Corn gluten feed | 320,692 | 295,030 | 329,431 |
| Corn gluten meal | 92,665 | 89,593 | 94,777 |
| Corn oil | 47,405 | 40,980 | 44,551 |
| Wet corn gluten feed 40\% to <br> moisture | 320,919 | 317,273 | 338,077 |
| Total | 860,355 | 809,260 | 881,867 |
| Dry and wet mill |  |  |  |
| Carbon dioxide captured | 240,056 | 205,305 | 217,311 |

## Survey Timeline and Report Releases

- Monthly-Grain Crushings and Co-products Production
- Published the first working day of each month
- January data will be published on March 2nd
- 3:00pm EST


## Survey Timeline and Report Releases

- Monthly report
- Each report will have a preliminary and current estimate
- March release includes December final data and preliminary January data
- Final data includes late reports from previously published release
- Annual Summary
- Will be published in March 2016
- Includes late reports to final data and any major revisions to previously reported data.


## Upcoming Surveys: Flour

- Flour Milling Products - Quarterly
- Operation Profiles data published September 29, 2014
- Third Quarter (July- September) and Fourth Quarter (October - December) are being collected and analyzed now.
- Publication date: May 1, 2015
- Third Quarter 2014, Fourth Quarter 2014, First Quarter 2015
- Wheat and rye milled for flour, flour production, and mill feed production
- Regional totals


## Upcoming Surveys: Cotton

- Cotton System - Monthly
- Surveying Cotton Spinners
- December 2014 and January 2015 are being collected now
- Publication date: May 1, 2015
- Cotton consumed
- Stocks on hand - last Saturday of Month
- Active spindle counts and hours operated


## Upcoming Surveys: Fats and Oils

- Fats and Oils - Monthly
- Surveying
- Oilseed Crushers
- Fats and Oils Refiners
- Renderers
- Operation profiles underway
- Survey begins - June 2015
- Collect and analyze data for May-June 2015
- Publication date: August 3, 2015
- Oilseed consumption
- Fats and oils production
- Fats and oils end of month stocks

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