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# CURRENT AGRICULTURAL INDUSTRIAL REPORTS

**USDA Agricultural Outlook Forum**

**Troy Joshua, Chief**

**Environmental, Economics, and  
Demographics Branch**

# Objectives

- Discuss the history of the Current Industrial Reports (CIR)
- Discuss NASS Current Agricultural Industrial Reports (CAIR)
- Grain Crashings 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 1904-2011
- 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 Crashings and Co-products Production
    - Dry and Wet Mill
  - Flour Milling
  - Cotton Spinning
  - Fats and Oils
  - Oilseed Crashings
  
- 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 Crashings and Co-products Production Publication

# Dry and Wet Mill Producers Survey Program Changes

- Formerly part of the Crashings Report (Corn)
- Added wheat and sorghum inputs
- Added co-products produced
  - CO<sub>2</sub> captured
  - Differentiate corn oil between edible and non-edible
  - 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

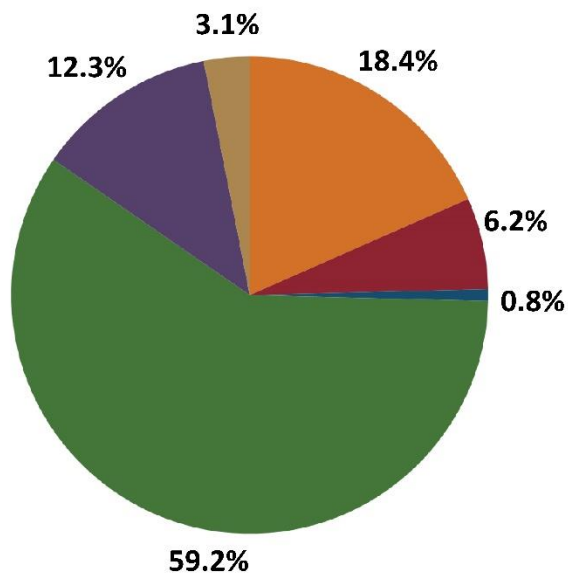
- All operations on the list which will produce ethanol will be selected for the monthly Dry and Wet Mill Producers Survey.
  - Grains used as feedstock
  - Products produced
  - Co-products produced
- Cellulosic ethanol facilities (woodchips, stover, etc.) are not included.

# 2014 Data Collection

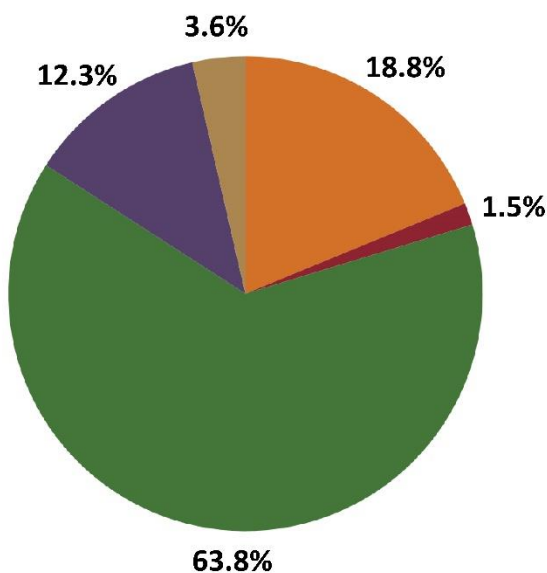
- NASS mailed 147 questionnaires for the Dry and Wet Mill Facilities.
  - 136 Dry
  - 11 Wet

# Mode of Data Collection

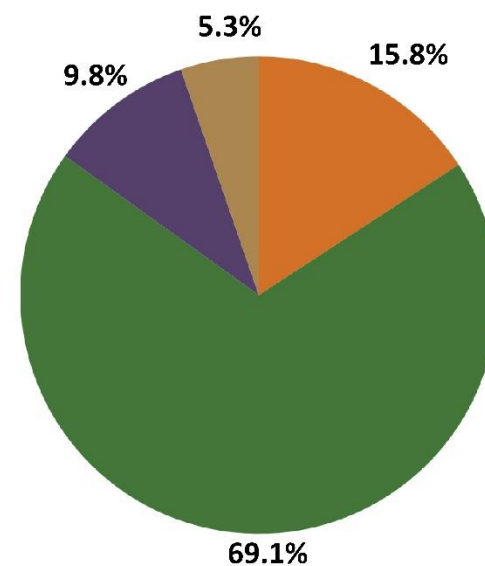
October, 2014



November, 2014



December, 2014

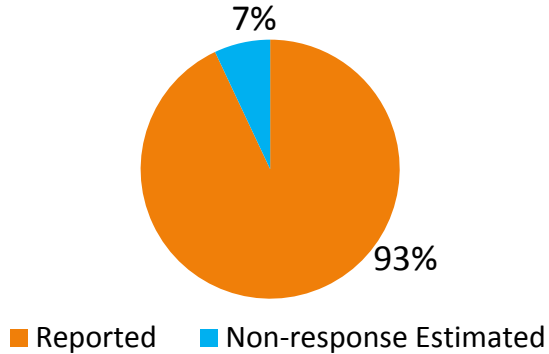


10% increase in web reporting from October to December.

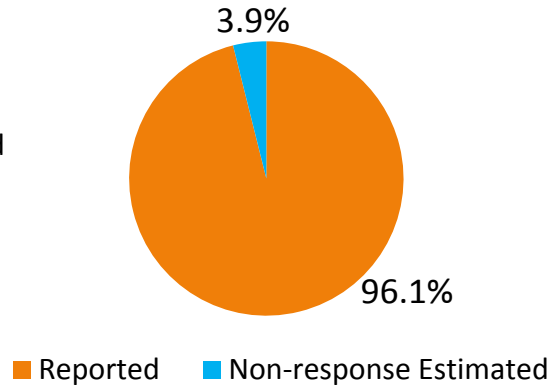
- Mail
- Telephone
- Face-to-Face
- Web survey
- Email
- Fax

# Coverage of Nameplate Capacity

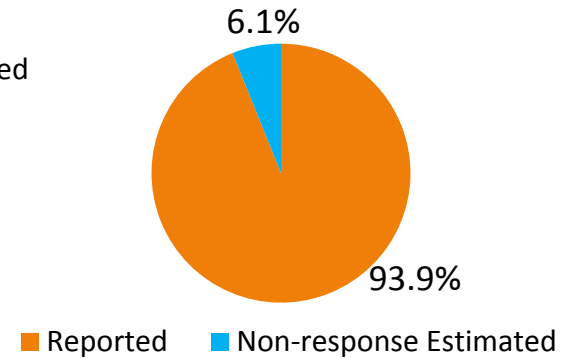
## October, 2014



## November, 2014



## December, 2014







# Dry Mill Producers Survey

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



# Dry Mill Producers Survey (cont'd)

1. Feedstock used in this mill	Unit of measure
d. Other <b>feedstock</b> or <b>blend</b> of feedstock used to produce alcohol ( Specify: _____ )	1,000 Bushels
(i) Other feedstock used to produce <b>beverage</b> alcohol	1,000 Bushels
(ii) Other feedstock used to produce <b>industrial</b> alcohol	1,000 Bushels
(iii) Other feedstock used to produce <b>fuel</b> alcohol	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	Tons
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 _____ )	Tons



# Wet Mill Producers Survey

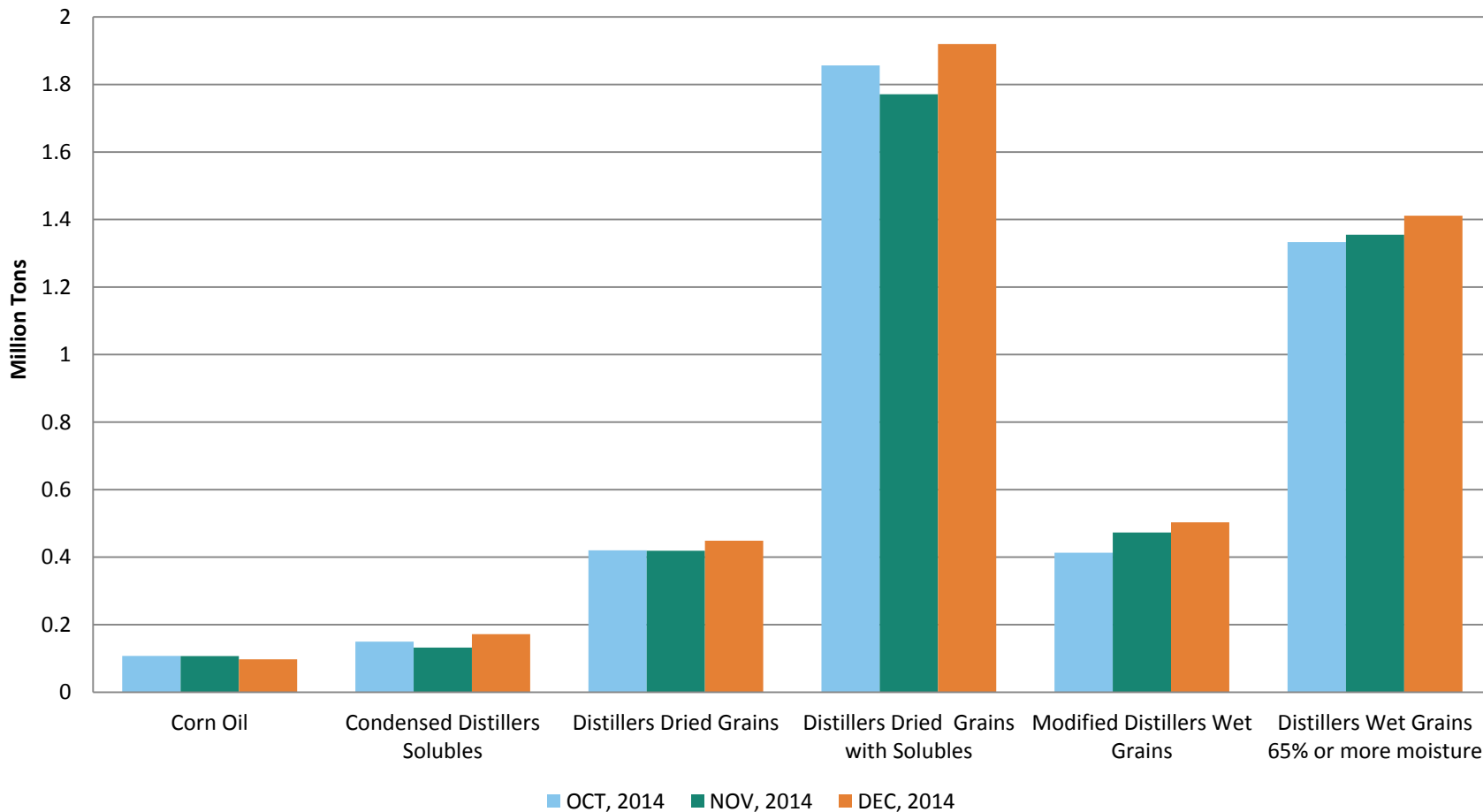
1. Feedstock used in this mill	Unit of measure
a. Total <b>Corn</b> used to produce alcohol or other products	1,000 Bushels
(i) Corn used to produce <b>beverage</b> alcohol	1,000 Bushels
(ii) Corn used to produce <b>industrial</b> alcohol	1,000 Bushels
(iii) Corn used to produce <b>fuel</b> alcohol	1,000 Bushels
(iv) Corn used to produce <b>other products</b>	1,000 Bushels
b. Other <b>feedstock</b> or <b>blend</b> of feedstock used ( Specify: _____ )	1,000 Bushels
(i) Other feedstock used to produce <b>beverage</b> alcohol	1,000 Bushels
(ii) Other feedstock used to produce <b>industrial</b> alcohol	1,000 Bushels
(iii) Other feedstock used to produce <b>fuel</b> alcohol	1,000 Bushels
(iv) Other feedstock used to produce <b>other products</b>	1.000 Bushels

# 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
<b>3. Co-products produced – including moisture</b>	
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

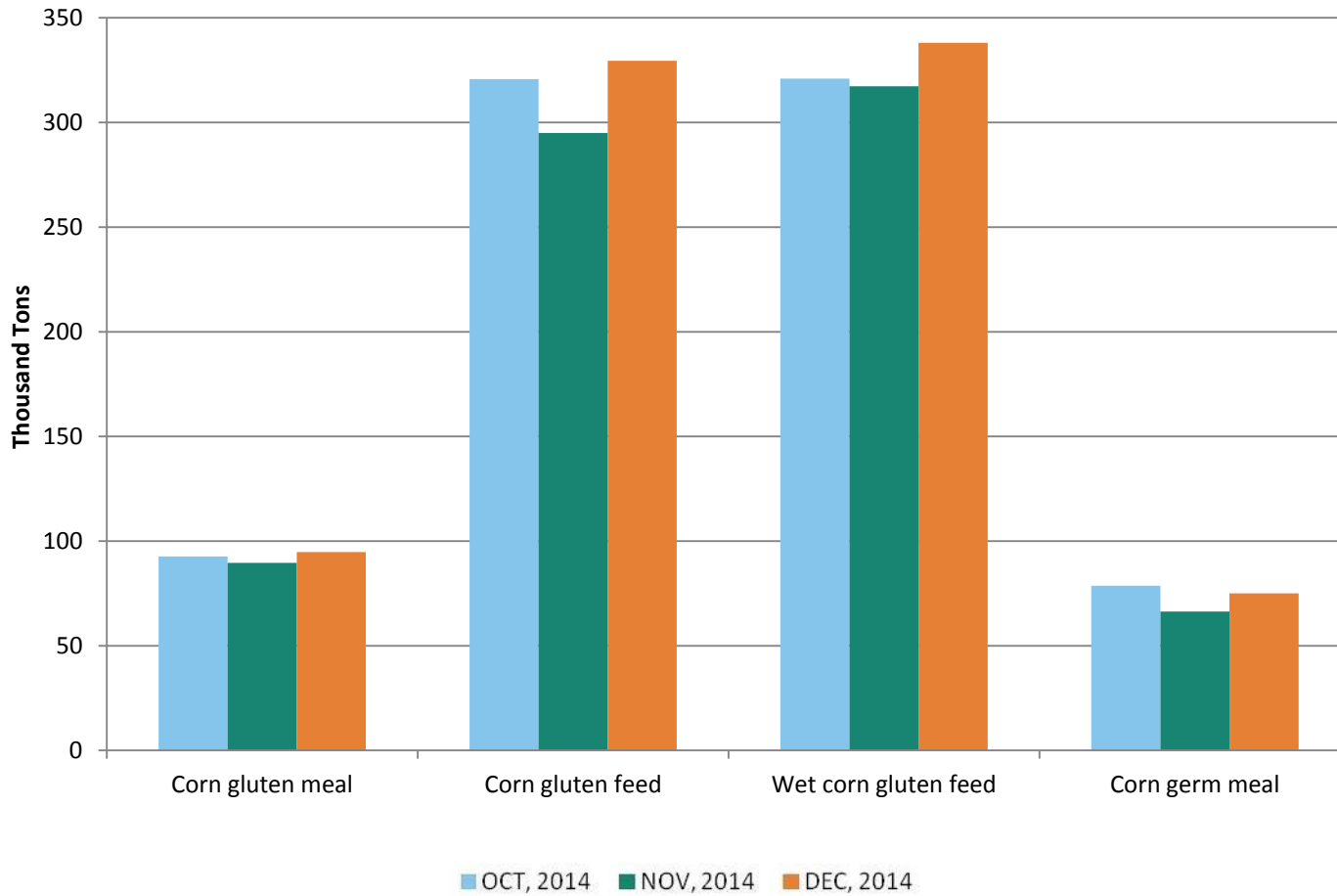
# Results

## Dry Mill Co-products Production



# Results

## Wet Mill Co-products Production



# Dry and Wet Mill Corn Consumed

Purpose	October 2014 (1,000 bu)	November 2014 (1,000 bu)	December 2014 (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 (1,000 cwt)	November 2014 (1,000 cwt)	December 2014 (1,000 cwt)
<b>Consumed for alcohol production</b>			
Fuel alcohol	1,900	2,070	889





# Dry and Wet Mill Co-products and Products Produced

Co-products and products	October 2014 (tons)	November 2014 (tons)	December 2014 (tons)
<b>Dry mill</b>			
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
<b>Total</b>	<b>4,280,478</b>	<b>4,256,906</b>	<b>4,552,505</b>

# Dry and Wet Mill Co-products and Products Produced

Co-products and products	October 2014 (tons)	November 2014 (tons)	December 2014 (tons)
<b>Wet mill</b>			
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 60% moisture	320,919	317,273	338,077
<b>Total</b>	<b>860,355</b>	<b>809,260</b>	<b>881,867</b>
<b>Dry and wet mill</b>			
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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# Questions

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