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FACT FINDERS FOR AGRICULTURE
UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D.C.

Ethanol Co-Products Used for Livestock Feed

Released June 29, 2007, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, U.S. Department of Agriculture. For information on *Ethanol Co-Products Used for Livestock Feed* call Scott Hollis at (202) 720-4751, office hours 7:30 a.m. to 4:00 p.m. ET.

Highlights

In the production process of converting corn to ethanol, important co-products are produced as well. These co-products, also called distillers grains or corn gluten feed, are created within the dry or wet mill process and can be fed to livestock. With the expansion of the ethanol industry, there is a greater supply of co-products. The goals of this study were to identify how many livestock operations were feeding co-products, which co-products were being fed, and the characteristics of those co-products. Information was also collected about how the operations have used and would like to use co-products and related services. In addition the study identified concerns and barriers which prevented operations from feeding co-products.

This study was a joint effort between the National Agricultural Statistics Service and the Nebraska Corn Development, Utilization & Marketing Board (an agency of the State of Nebraska). Approximately 9,400 livestock operations in Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin were contacted by mail in February 2007 with a second mailing two weeks later and telephone follow-up in March.

This probability based survey included dairy cattle, cattle on feed, beef cattle (cow/calf), and hogs. Each species was stratified and sampled independently to represent all livestock operations in the 12 state region. For sampling efficiency, minimum operation size thresholds were set: 20 head for dairy cattle, 50 head for cattle on feed, 10 head for beef cattle, and 25 head for hogs. Hog data were summarized based on the sample operation's state headquarters and may include data from outside the 12 official survey states. The survey reference date was calendar year 2006. Of the 9,400 operations contacted 1,276 indicated they had used co-products during 2006. Their responses were adjusted for non-response and are reported in this release. Responses for operations not feeding co-products were also adjusted for non-response and are included only in the first and last tables of this release.

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Operations' Profile

Item	Average Peak Inventory of All Operations	Average Peak Inventory of Operations Feeding Co-Products	Average Years Feeding Co-Products	Average Peak Inventory of Operations Not Feeding Co-Products
	<i>Head</i>	<i>Head</i>	<i>Years</i>	<i>Head</i>
Dairy Cattle	173	223	9.2	142
Cattle on Feed	725	1,276	5.1	416
Beef Cattle	127	243	4.6	109
Hogs	3,256	10,957	2.7	2,168

Operations' Profile (Continued)

Item	Feeding Co-Products	Not Feeding Co-Products but Considered Feeding Co-Products	Not Feeding Co-Products and Not Considered Feeding Co-Products
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	38	22	40
Cattle on Feed	36	34	30
Beef Cattle	13	30	57
Hogs	12	35	53

Operations Purchasing Co-Products by Source

Item	Directly from Ethanol and Other Processing Plants	Through Feed Companies/ Co-ops	Through Brokers and Other
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	11	77	12
Cattle on Feed	52	33	15
Beef Cattle	20	66	14
Hogs	21	74	5

Operations Purchasing Co-Products by Contract Type

Item	Spot	Monthly	Quarterly	6-Month	Yearly	Clock and Other
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	56	17	8	5	11	3
Cattle on Feed	55	5	6	10	22	2
Beef Cattle	69	11	5	5	8	2
Hogs	55	15	6	9	11	4

Price Basis of Purchased Co-Products

Item	Corn	Soybean Meal	Both	Other
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	32	18	44	6
Cattle on Feed	66	5	25	4
Beef Cattle	61	3	31	5
Hogs	40	12	43	5

Operations Reporting Services Available from Co-Product Supplier ¹

Item	On-Site Consultation	Nutritional Service	Delivery Service	Nutrient Analysis	Variety of Products	Education	None	Other
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	50	65	75	62	50	35	9	0
Cattle on Feed	32	39	58	56	32	21	19	0
Beef Cattle	36	40	61	42	42	23	17	0
Hogs	37	50	51	55	33	23	20	0

¹ Percents will not add to 100 due to ability of the respondents to select multiple services available.

Operations Reporting Additional Services Wanted from Co-Product Supplier ¹

Item	On-Site Consultation	Nutritional Service	Delivery Service	Nutrient Analysis	Variety of Products	Education	None	Other
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	4	5	2	4	5	10	77	2
Cattle on Feed	6	10	5	8	9	18	65	D
Beef Cattle	6	11	7	13	11	21	60	3
Hogs	7	11	2	14	9	13	63	D

¹ Percents will not add to 100 due to ability of the respondents to select multiple services wanted.

D Not enough reports to provide a statistically defensible estimate.

Person Formulating Feed Rations

Item	Feed Company Nutritionist	Independent Nutritionist	Self	Extension Service and Other
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	59	24	16	1
Cattle on Feed	54	13	31	2
Beef Cattle	40	7	49	4
Hogs	73	11	13	3

Preferred Color for Co-Product

Item	Light	Medium	Dark	No Preference
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	14	17	6	63
Cattle on Feed	23	21	2	54
Beef Cattle	10	19	5	66
Hogs	27	25	3	45

Co-Products Fed by Type ¹

Item	Operations Who Use This Type	Average ² Peak Inventory	Percent Moisture	Inclusion Percent	Average Amount Fed per Animal ³	Average Price Per Ton
	<i>Percent</i>	<i>Head</i>	<i>Percent</i>	<i>Percent</i>	<i>Pounds</i>	<i>Dollars</i>
Condensed Distillers Solubles (CDS)						
Dairy Cattle	3	206	D	D	D	84.01
Cattle on Feed	3	2,926	66	24	1,080	25.17
Beef Cattle	3	610	66	15	618	57.55
Hogs	C	C	C	C	C	C
Distillers Dried Grains, No Solubles (DDG)						
Dairy Cattle	45	188	12	17	3,280	118.47
Cattle on Feed	19	1,176	13	11	390	105.69
Beef Cattle	25	263	12	28	710	107.97
Hogs	44	6,569	10	11	82	109.49
Distillers Dried Grains with Solubles (DDGS)						
Dairy Cattle	22	272	11	8	1,002	130.15
Cattle on Feed	14	1,590	15	23	916	85.95
Beef Cattle	13	344	12	22	396	114.22
Hogs	37	27,708	12	10	60	91.74
Corn Gluten Feed						
Dairy Cattle	22	261	21	15	1,858	104.16
Cattle on Feed	38	1,189	52	26	1,330	44.22
Beef Cattle	46	215	26	28	3,576	101.29
Hogs	C	C	C	C	C	C
Brewers Grains						
Dairy Cattle	10	297	61	15	3,620	45.07
Cattle on Feed	C	C	C	C	C	C
Beef Cattle	3	361	D	31	398	92.31
Hogs	0	-	-	-	-	-

¹ Percents will not add to 100 due to ability of the respondents to select multiple types.

² Refers to average peak inventory of operations that fed particular co-product during 2006.

³ Average amount of particular co-product fed per animal per year.

C Data included in Other Co-Products.

D Not enough reports to provide a statistically defensible estimate.

Co-Products Fed by Type ¹

Item	Operations Who Use This Type	Average ² Peak Inventory	Percent Moisture	Inclusion Percent	Average Amount Fed per Animal ³	Average Price Per Ton
	<i>Percent</i>	<i>Head</i>	<i>Percent</i>	<i>Percent</i>	<i>Pounds</i>	<i>Dollars</i>
Distillers Wet Grains (25-40% Solids)						
Dairy Cattle	6	353	68	22	5,126	26.77
Cattle on Feed	19	1,934	60	23	3,306	28.28
Beef Cattle	6	485	60	22	1,542	39.58
Hogs	C	C	C	C	C	C
Distillers Wet Grains (over 40% Solids)						
Dairy Cattle	5	361	57	10	3,078	35.28
Cattle on Feed	17	2,322	57	26	1,380	31.61
Beef Cattle	5	495	55	31	1,778	33.56
Hogs	C	C	C	C	C	C
Complete Commercial Feed						
Dairy Cattle	8	183	9	29	2,604	226.34
Cattle on Feed	3	1,194	D	D	176	D
Beef Cattle	9	294	12	36	322	165.16
Hogs	11	3,514	11	11	318	189.52
Co-Products from New Processes						
Dairy Cattle	C	C	C	C	C	C
Cattle on Feed	C	C	C	C	C	C
Beef Cattle	1	341	D	D	286	155.12
Hogs	0	-	-	-	-	-
Combination of Co-Products						
Dairy Cattle	5	184	D	27	896	D
Cattle on Feed	C	C	C	C	C	C
Beef Cattle	3	249	20	37	748	105.42
Hogs	C	C	C	C	C	C
Other Co-Products						
Dairy Cattle	2	329	M	M	4,680	M
Cattle on Feed	6	1,461	M	M	1,568	M
Beef Cattle	7	227	M	M	676	M
Hogs	10	8,598	M	M	128	M

¹ Percents will not add to 100 due to ability of the respondents to select multiple types.

² Refers to average peak inventory of operations that fed particular co-product during 2006.

³ Average amount of particular co-product fed per animal per year.

C Data included in Other Co-Products.

D Not enough reports to provide a statistically defensible estimate.

M Data for percent moisture, inclusion percentage and average price per ton were not published due to reporting of multiple co-products.

Operations Feeding Additional Protein Sources ¹

Item	Soybean Meal	Cotton-seed	Roasted Soybeans	High Bypass Soy Meal	None	Dry Protein	Other
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	72	29	31	22	8	D	5
Cattle on Feed	18	2	D	2	56	9	16
Beef Cattle	25	7	1	2	58	6	7
Hogs	84	0	4	8	7	0	3

¹ Percents will not add to 100 due to ability of the respondents to select multiple sources.

D Not enough reports to provide a statistically defensible estimate.

Operations Feeding Co-Products by Forms ¹

Item	Wet	Dry Coarse Meal	Dry Fine Meal	Lick Block/Tub	Liquid	Pellets and Cubes	Other
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	18	36	50	3	2	16	D
Cattle on Feed	64	13	20	4	6	15	0
Beef Cattle	21	22	26	8	4	43	0
Hogs	4	33	59	0	D	7	0

¹ Percents will not add to 100 due to ability of the respondents to select multiple forms.

D Not enough reports to provide a statistically defensible estimate.

Operations' Preferred Forms of Co-Products ¹

Item	Wet	Dry Coarse Meal	Dry Fine Meal	Lick Block/Tub	Liquid	Pellets and Cubes	Other
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	19	40	44	3	2	20	D
Cattle on Feed	65	15	19	4	6	17	D
Beef Cattle	20	30	19	15	6	48	D
Hogs	4	41	58	0	D	9	0

¹ Percents will not add to 100 due to ability of the respondents to select multiple forms.

D Not enough reports to provide a statistically defensible estimate.

Operations' Rating of Co-Product Characteristics ¹

Item	Price	Quality Product	Consistent Protein	Freshness	Handling Ease	Shelf Life
	<i>Average</i>	<i>Average</i>	<i>Average</i>	<i>Average</i>	<i>Average</i>	<i>Average</i>
Dairy Cattle	3.9	3.9	3.8	3.7	3.5	3.6
Cattle on Feed	3.9	3.8	3.6	3.7	3.5	3.6
Beef Cattle	3.8	3.8	3.8	3.6	3.6	3.5
Hogs	3.9	3.9	3.8	3.7	3.7	3.4

¹ Operators were asked to rate the importance of each product characteristic from 1 (No Importance) to 4 (High Importance).

Operations' Rating of Co-Product Characteristics (continued) ¹

Item	Consistent Moisture	Consistent Fat	Form	Consistent Fiber	Lysine Content
	<i>Average</i>	<i>Average</i>	<i>Average</i>	<i>Average</i>	<i>Average</i>
Dairy Cattle	3.6	3.6	3.3	3.5	3.2
Cattle on Feed	3.6	3.5	3.3	3.2	2.9
Beef Cattle	3.3	3.3	3.3	3.2	2.9
Hogs	3.6	3.5	3.4	3.5	3.6

¹ Operators were asked to rate the importance of each product characteristic from 1 (No Importance) to 4 (High Importance).

Operations' Rating of Co-Product Supplier Attributes ¹

Item	Availability of Supply	Comparative Value	Reliability of Deliveries	Contracting
	<i>Average</i>	<i>Average</i>	<i>Average</i>	<i>Average</i>
Dairy Cattle	3.8	3.6	3.7	2.8
Cattle on Feed	3.8	3.7	3.7	3.4
Beef Cattle	3.7	3.6	3.5	2.7
Hogs	3.7	3.7	3.6	3.2

¹ Operators were asked to rate the importance of each attribute from 1 (No Importance) to 4 (High Importance).

Primary Reason for Not Feeding Co-Products

	Avail- ability	Infra- structure and Handling	Cost Issues	Concerns/ Questions about Nutri- tional Value	Raises Own Feed	Satisfied with Current Feeding Program
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	26	16	13	8	10	8
Cattle on Feed	35	22	11	2	5	5
Beef Cattle	38	12	10	4	9	7
Hogs	36	14	10	16	3	5

Primary Reason for Not Feeding Co-Products (continued)

Item	Lack of Knowledge	Considers Operation Too Small	Transport- ation Problems	Shelf Life/ Longevity of Product	Other Reasons
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Dairy Cattle	5	C	2	2	10
Cattle on Feed	5	4	4	5	2
Beef Cattle	5	5	3	2	5
Hogs	5	3	1	1	6

C Data combined with Other Reasons.

Terms and Definitions

Brewers Dried Grains: the dried extracted residue of barley malt alone or in a mixture with other cereal grain or grain products resulting from the manufacture of wort or beer and may contain pulverized dried spent hops in an amount not to exceed 3%, evenly distributed.

Complete Feed: a nutritionally adequate feed for animals other than man; by specific formula is compounded to be fed as the sole ration and is capable of maintaining life and/or promoting production without any additional substance being consumed except water.

Condensed Distillers Solubles: obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of a grain or a grain mixture by condensing the thin stillage fraction to a semi-solid.

Corn Distillers Dried Grains: obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of a grain or grain mixture by separating the resultant coarse grain fraction of the whole stillage and drying it by methods employed in the grain distilling industry.

Corn Distillers Dried Grains with Solubles: product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of a grain or a grain mixture by condensing and drying at $\frac{3}{4}$ of the solids of the resultant whole stillage by methods employed in the grain distilling industry.

Corn Distillers Dried Solubles: obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of a grain mixture by condensing the thin stillage fraction and drying it by methods employed in the grain distilling industry.

Corn Gluten Feed: that part of the commercial shelled corn that remains after the extraction of the larger portion of the starch, gluten, and germ by the processes employed in the wet milling manufacture of corn starch or syrup. It may or may not contain one or more of the following: fermented corn extractives, corn germ meal.

Corn Gluten Meal: dried residue from corn after the removal of the larger part of the starch and germ, and the separation of the bran by the process employed in the wet milling manufacture of corn starch or syrup, or by enzymatic treatment of the endosperm. It may contain fermented corn extractives and/or corn germ meal.

Distillers Wet Grains: product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of a grain mixture. The guaranteed analysis shall include the maximum moisture.

Dry-milled: tempered with a small amount of water or steam to facilitate the separation of the various component parts of the kernel in the absence of any significant amount of free water.

Wet-milled: steeped in water with or without sulfur dioxide to soften the kernel in order to facilitate the separation of the various component parts.

The terms and definitions cited above were obtained from American Feed Control Officials Incorporated, *Official Publication 2007*.

Information Contacts

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information.

Dan Kerestes, Chief, Livestock Branch (202) 720-3570

Livestock Section

William Weaver, Head, Livestock Section (202) 720-3570
Bruce Boess - Hogs and Pigs (202) 720-3106
Shawn Clark - Dairy Products (202) 690-3236
Jason Hardegree - Milk Production and Milk Cows (202) 720-3278
Scott Hollis - Sheep & Lambs, Goats (202) 720-4751
Mike Miller - Cattle, Cattle on Feed (202) 720-3040
Benita Hodge - Livestock Slaughter (515) 284-4340
Charmaine Wilson - Dairy Products Prices (202) 690-2168

Appendix

On the following pages are the four different versions of the questionnaire that were used to collect data for each of the species sampled (dairy cattle, cattle on feed, beef cattle, and hogs). Only hog owners were mailed the hog version of the questionnaire. The hog questionnaire asked respondents to report hogs and pigs owned by this operation regardless of location while the beef cattle, cattle on feed, and dairy cattle versions asked for inventory regardless of ownership on the acres operated. Data being released in this publication will be available only on the internet.



DAIRY CO-PRODUCTS SURVEY



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

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Please make corrections to name, address and zip code, if necessary.

1. During 2006, did this operation have **any** dairy cattle?

- YES** - Go to Question 2, below.
- NO** - Go to **Conclusion** on the back page.

2. During 2006, what was the **largest number** of dairy cattle and calves, regardless of ownership, on hand at any one time on the total acres operated? (**Include** animals of any age, including newborns.)

Largest Number
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3. During 2006, did you feed Co-Products, such as Distillers Dried or Wet Grains, Corn Gluten Feed, Brewers Grains, Condensed Distillers Solubles or Co-Products from new processes, to your dairy cattle?

1 Yes - Go to Question 4.

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3 No. Have you ever fed or considered feeding Co-Products to your dairy cattle?

Yes - Go to Question 3a.

No - Go to Question 3a.

3a. What is the **primary** reason for not feeding Co-Products to your dairy cattle? Check one.

- | | |
|---|---|
| <input type="checkbox"/> 1 Availability of Co-Products | <input type="checkbox"/> 7 Phosphorus or sulfur content |
| <input type="checkbox"/> 2 Flowability due to moisture content | <input type="checkbox"/> 8 Price vs other protein sources |
| <input type="checkbox"/> 3 More expensive than corn | <input type="checkbox"/> 9 Transportation problems |
| <input type="checkbox"/> 4 More expensive than soybean meal | <input type="checkbox"/> 10 Uncertainty of nutritional value |
| <input type="checkbox"/> 5 No storage facilities for Co-Products | <input type="checkbox"/> 11 Shelf life/Longevity of product |
| <input type="checkbox"/> 6 Variability of Co-Products | <input type="checkbox"/> 12 Other reason, specify: _____ |

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3b. **Go to Conclusion** on the back page.

Years

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4. How many **years** have you been feeding Co-Products to your dairy cattle?

5. Complete the table below for the type(s) of Co-Product fed to your dairy cattle during 2006.

Co-Product	Have you used this Co-Product?	How many total head were fed the Co-Product?	What was the average percent moisture?	What was the inclusion percentage on a dry matter basis of your ration?	What was the total amount fed (Tons) in 2006? (as fed basis)	What was the average price paid (F.O.B.) per ton? (as fed basis)
a. Condensed Distillers Solubles.	<input type="checkbox"/> Yes→	105	106	107	108	109
b. Distillers Dried Grains, No Solubles	<input type="checkbox"/> Yes→	110	111	112	113	114
c. Distillers Dried Grains with Solubles	<input type="checkbox"/> Yes→	115	116	117	118	119
d. Corn Gluten Feed.	<input type="checkbox"/> Yes→	120	121	122	123	124
e. Brewers Grains.	<input type="checkbox"/> Yes→	125	126	127	128	129
f. Distillers Wet Grain (25-40% Solids)	<input type="checkbox"/> Yes→	130	131	132	133	134
g. Distillers Wet Grain (over 40% Solids)	<input type="checkbox"/> Yes→	135	136	137	138	139
h. Co-Products from new Processes	<input type="checkbox"/> Yes→	140	141	142	143	144
i. Complete Commercial Feed.	<input type="checkbox"/> Yes→	145	146	147	148	149
j. Combination of Co-Products	<input type="checkbox"/> Yes→	150	151	152	153	154
k. Other Co-Product Specify : _____	<input type="checkbox"/> Yes→	155	156	157	158	159

6. Please check all the additional protein sources added to your dairy cattle rations in 2006. Check all that apply.

- | | | |
|---|---|-------------------|
| <input type="checkbox"/> 1 Soybean Meal and other Oilseed Meals | <input type="checkbox"/> 4 High Bypass Soybean Meal | OFFICE USE
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| <input type="checkbox"/> 2 Cottonseed, whole or meal | <input type="checkbox"/> 5 Other, specify: _____ | |
| <input type="checkbox"/> 3 Roasted Soybeans | <input type="checkbox"/> 6 No additional sources of protein | |

7. Where did you purchase the **majority** of your Co-Products?

- | | | |
|---|--|-------------------|
| <input type="checkbox"/> 1 Directly from ethanol plants | <input type="checkbox"/> 3 Through brokers | OFFICE USE
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| <input type="checkbox"/> 2 Through feed companies | <input type="checkbox"/> 4 Other, specify: _____ | |

8. In which form(s) did you receive Co-Products for your dairy cattle rations in 2006? Check all that apply.

- | | | |
|--|--|-------------------|
| <input type="checkbox"/> 1 Wet | <input type="checkbox"/> 5 Liquid | OFFICE USE
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| <input type="checkbox"/> 2 Dry Coarse Meal | <input type="checkbox"/> 6 Pellets/Cubes | |
| <input type="checkbox"/> 3 Dry Fine Meal | <input type="checkbox"/> 7 Other, specify: _____ | |
| <input type="checkbox"/> 4 Lick Block/Tub | | |

9. In which form(s) would you **like** to receive Co-Products for your dairy cattle rations in the future? Check all that apply.

- | | | |
|--|--|-------------------|
| <input type="checkbox"/> 1 Wet | <input type="checkbox"/> 5 Liquid | OFFICE USE
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| <input type="checkbox"/> 2 Dry Coarse Meal | <input type="checkbox"/> 6 Pellets/Cubes | |
| <input type="checkbox"/> 3 Dry Fine Meal | <input type="checkbox"/> 7 Other, specify: _____ | |
| <input type="checkbox"/> 4 Lick Block/Tub | | |

15. On the scale below, what is the level of importance of the following Co-Product supplier services that are provided to your dairy cattle operation? Circle one answer for each service.

1=No importance 2=Low importance 3=Medium importance 4=High importance 5=Don't know/NA

	No	Low	Medium	High	DK/NA	OFFICE USE
a. Reliability of Deliveries of Co-Products.	1	2	3	4	5	179
b. Availability of Supply of Co-Products.	1	2	3	4	5	180
c. Contracting.	1	2	3	4	5	181
d. Comparative Value.	1	2	3	4	5	182
e. Other, specify: _____	1	2	3	4	5	183

16. What type of contract purchase do you utilize for the **majority** of the Co-Products for your dairy cattle?

- 1 Spot
- 2 Monthly
- 3 Quarterly
- 4 6-month
- 5 Clock
- 6 Yearly
- 7 Other, specify: _____

OFFICE USE
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17. Is the price or value of the **majority** of the Co-Products you purchase based on:

- 1 Corn?
- 2 Soybean Meal?
- 3 Both Corn and Soybean Meal?
- 4 Other, specify: _____ ?

OFFICE USE
185

CONCLUSION

Comments:

Thank You

Respondent Name: _____ Phone: () _____

9910	MM	DD	YY
Date:	---	---	---

Response	Respondent	Mode	Enum.	Eval.
1-Comp 2-R 3-Inac 4-Office Hold 5-R - Est 6-Inac - Est 7-Off Hold - Est 8-Known Zero	9901 1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Oth	9902 1-Mail 2-Tel 3-Face-to-Face 4-CATI 5-Web 6-e-mail 7-Fax 8-CAPI 19-Other	9903 098	100

Office Use for POID	
789	

Optional Use	
407	408

S/E Name _____

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CATTLE ON FEED CO-PRODUCTS SURVEY



NATIONAL AGRICULTURAL STATISTICS SERVICE

P.O. Box 81089
Lincoln, NE 68501
Phone: 402-437-5541
Fax: 1-888-814-6117
Email: nass-ne@nass.usda.gov

Please make corrections to name, address and zip code, if necessary.

1. During 2006, did this operation have **any** cattle on feed?

- YES** - Go to Question 2, below.
- NO** - Go to **Conclusion** on the back page.

2. During 2006, what was the **largest number** of cattle on feed, regardless of ownership, on hand at any one time on the total acres operated?.....

Largest Number

101

3. During 2006, did you feed Co-Products, such as Distillers Dried or Wet Grains, Corn Gluten Feed, Brewers Grains, Condensed Distillers Solubles or Co-Products from new processes, to your cattle on feed?

- 1 Yes - Go to Question 4.**
- 3 No.** Have you ever fed or considered feeding Co-Products to your cattle on feed?
 - Yes - Go to Question 3a.**
 - No - Go to Question 3a.**

OFFICE USE

102

3a. What is the **primary** reason for not feeding Co-Products to your cattle on feed? Check one.

- | | | |
|---|---|--|
| <input type="checkbox"/> 1 Availability of Co-Products | <input type="checkbox"/> 7 Phosphorus or sulfur content | OFFICE USE
<div style="border: 1px solid black; width: 100px; height: 20px; text-align: center;">103</div> |
| <input type="checkbox"/> 2 Flowability due to moisture content | <input type="checkbox"/> 8 Price vs other protein sources | |
| <input type="checkbox"/> 3 More expensive than corn | <input type="checkbox"/> 9 Transportation problems | |
| <input type="checkbox"/> 4 More expensive than soybean meal | <input type="checkbox"/> 10 Uncertainty of nutritional value | |
| <input type="checkbox"/> 5 No storage facilities for Co-Products | <input type="checkbox"/> 11 Shelf life/Longevity of product | |
| <input type="checkbox"/> 6 Variability of Co-Products | <input type="checkbox"/> 12 Other reason, specify: _____ | |

3b. **Go to Conclusion** on the back page.

Years

104

4. How many **years** have you been feeding Co-Products to your cattle on feed?

5. Complete the table below for the type(s) of Co-Product fed to your cattle on feed during 2006.

Co-Product	Have you used this Co-Product?	How many total head were fed the Co-Product?	What was the average percent moisture?	What was the inclusion percentage on a dry matter basis of your ration?	What was the total amount fed (Tons) in 2006? (as fed basis)	What was the average price paid (F.O.B.) per ton? (as fed basis)
a. Condensed Distillers Solubles.....	<input type="checkbox"/> Yes→	105	106	107	108	109
b. Distillers Dried Grains, No Solubles....	<input type="checkbox"/> Yes→	110	111	112	113	114
c. Distillers Dried Grains with Solubles....	<input type="checkbox"/> Yes→	115	116	117	118	119
d. Corn Gluten Feed.....	<input type="checkbox"/> Yes→	120	121	122	123	124
e. Brewers Grains.....	<input type="checkbox"/> Yes→	125	126	127	128	129
f. Distillers Wet Grain (25-40% Solids)...	<input type="checkbox"/> Yes→	130	131	132	133	134
g. Distillers Wet Grain (over 40% Solids)...	<input type="checkbox"/> Yes→	135	136	137	138	139
h. Co-Products from new Processes.....	<input type="checkbox"/> Yes→	140	141	142	143	144
i. Complete Commercial Feed.....	<input type="checkbox"/> Yes→	145	146	147	148	149
j. Combination of Co-Products.....	<input type="checkbox"/> Yes→	150	151	152	153	154
k. Other Co-Product Specify :.....	<input type="checkbox"/> Yes→	155	156	157	158	159

6. Please check all the additional protein sources added to your cattle on feed rations in 2006. Check all that apply.

- | | | |
|---|---|-------------------|
| <input type="checkbox"/> 1 Soybean Meal and other Oilseed Meals | <input type="checkbox"/> 4 High Bypass Soybean Meal | OFFICE USE
160 |
| <input type="checkbox"/> 2 Cottonseed, whole or meal | <input type="checkbox"/> 5 Other, specify: _____ | |
| <input type="checkbox"/> 3 Roasted Soybeans | <input type="checkbox"/> 6 No additional sources of protein | |

7. Where did you purchase the **majority** of your Co-Products?

- | | | |
|---|--|-------------------|
| <input type="checkbox"/> 1 Directly from ethanol plants | <input type="checkbox"/> 3 Through brokers | OFFICE USE
161 |
| <input type="checkbox"/> 2 Through feed companies | <input type="checkbox"/> 4 Other, specify: _____ | |

8. In which form(s) did you receive Co-Products for your cattle on feed rations in 2006? Check all that apply.

- | | | |
|--|--|-------------------|
| <input type="checkbox"/> 1 Wet | <input type="checkbox"/> 5 Liquid | OFFICE USE
162 |
| <input type="checkbox"/> 2 Dry Coarse Meal | <input type="checkbox"/> 6 Pellets/Cubes | |
| <input type="checkbox"/> 3 Dry Fine Meal | <input type="checkbox"/> 7 Other, specify: _____ | |
| <input type="checkbox"/> 4 Lick Block/Tub | | |

9. In which form(s) would you **like** to receive Co-Products for your cattle on feed rations in the future? Check all that apply.

- | | | |
|--|--|-------------------|
| <input type="checkbox"/> 1 Wet | <input type="checkbox"/> 5 Liquid | OFFICE USE
163 |
| <input type="checkbox"/> 2 Dry Coarse Meal | <input type="checkbox"/> 6 Pellets/Cubes | |
| <input type="checkbox"/> 3 Dry Fine Meal | <input type="checkbox"/> 7 Other, specify: _____ | |
| <input type="checkbox"/> 4 Lick Block/Tub | | |

15. On the scale below, what is the level of importance of the following Co-Product supplier services that are provided to your cattle on feed operation? Circle one answer for each service.

1=No importance 2=Low importance 3=Medium importance 4=High importance 5=Don't know/NA

	No	Low	Medium	High	DK/NA	OFFICE USE
a. Reliability of Deliveries of Co-Products.	1	2	3	4	5	179
b. Availability of Supply of Co-Products.	1	2	3	4	5	180
c. Contracting.	1	2	3	4	5	181
d. Comparative Value.	1	2	3	4	5	182
e. Other, specify: _____	1	2	3	4	5	183

16. What type of contract purchase do you utilize for the **majority** of the Co-Products for your cattle on feed?

- 1 Spot 5 Clock
 2 Monthly 6 Yearly
 3 Quarterly 7 Other, specify: _____
 4 6-month

OFFICE USE
184

17. Is the price or value of the **majority** of the Co-Products you purchase based on:

- 1 Corn?
 2 Soybean Meal?
 3 Both Corn and Soybean Meal?
 4 Other, specify: _____?

OFFICE USE
185

CONCLUSION

Comments:

Thank You

Respondent Name: _____ Phone: () _____

9910	MM	DD	YY
Date:	_____	_____	_____

Response	Respondent	Mode	Enum.	Eval.
1-Comp	9901	1-Op/Mgr	9902	1-Mail
2-R		2-Sp		2-Tel
3-Inac		3-Acct/Bkpr		3-Face-to-Face
4-Office Hold		4-Partner		4-CATI
5-R - Est		9-Oth		5-Web
6-Inac - Est				6-e-mail
7-Off Hold - Est				7-Fax
8-Known Zero				8-CAPI
				19-Other

Office Use for POID	
789	
Optional Use	
407	408

S/E Name _____

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BEEF CATTLE CO-PRODUCTS SURVEY



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

P.O. Box 81069
Lincoln, NE 68501
Phone: 402-437-5541
Fax: 1-888-814-6117
Email: nass-ne@nass.usda.gov

Please make corrections to name, address and zip code, if necessary.

1. During 2006, did this operation have **any** beef cattle, excluding cattle on feed?

- YES** - Go to Question 2, below.
- NO** - Go to **Conclusion** on the back page.

2. During 2006, what was the **largest number** of beef cattle and calves, regardless of ownership, excluding cattle on feed, on hand at any one time on the total acres operated? (**Include** animals of any age, including newborns.).....

Largest Number

101

3. During 2006, did you feed Co-Products, such as Distillers Dried or Wet Grains, Corn Gluten Feed, Brewers Grains, Condensed Distillers Solubles or Co-Products from new processes, to your beef cattle?

1 Yes - Go to Question 4.

OFFICE USE

102

3 No. Have you ever fed or considered feeding Co-Products to your beef cattle?

Yes - Go to Question 3a.

No - Go to Question 3a.

3a. What is the **primary** reason for not feeding Co-Products to your beef cattle? Check one.

- 1** Availability of Co-Products
- 2** Flowability due to moisture content
- 3** More expensive than corn
- 4** More expensive than soybean meal
- 5** No storage facilities for Co-Products
- 6** Variability of Co-Products
- 7** Phosphorus or sulfur content
- 8** Price vs other protein sources
- 9** Transportation problems
- 10** Uncertainty of nutritional value
- 11** Shelf life/Longevity of product
- 12** Other reason, specify: _____

OFFICE USE

103

3b. **Go to Conclusion** on the back page.

Years

104

4. How many **years** have you been feeding Co-Products to your beef cattle?

5. Complete the table below for the type(s) of Co-Product fed to your beef cattle during 2006.

Co-Product	Have you used this Co-Product?	How many total head were fed the Co-Product?	What was the average percent moisture?	What was the inclusion percentage on a dry matter basis of your ration?	What was the total amount fed (Tons) in 2006? (as fed basis)	What was the average price paid (F.O.B.) per ton? (as fed basis)
a. Condensed Distillers Solubles.	<input type="checkbox"/> Yes→	105	106	107	108	109
b. Distillers Dried Grains, No Solubles	<input type="checkbox"/> Yes→	110	111	112	113	114
c. Distillers Dried Grains with Solubles	<input type="checkbox"/> Yes→	115	116	117	118	119
d. Corn Gluten Feed.	<input type="checkbox"/> Yes→	120	121	122	123	124
e. Brewers Grains.	<input type="checkbox"/> Yes→	125	126	127	128	129
f. Distillers Wet Grain (25-40% Solids) ...	<input type="checkbox"/> Yes→	130	131	132	133	134
g. Distillers Wet Grain (over 40% Solids) ..	<input type="checkbox"/> Yes→	135	136	137	138	139
h. Co-Products from new Processes	<input type="checkbox"/> Yes→	140	141	142	143	144
i. Complete Commercial Feed.	<input type="checkbox"/> Yes→	145	146	147	148	149
j. Combination of Co-Products	<input type="checkbox"/> Yes→	150	151	152	153	154
k. Other Co-Product, Specify _____	<input type="checkbox"/> Yes→	155	156	157	158	159

6. Please check all the additional protein sources added to your beef cattle rations in 2006. Check all that apply.

- 1 Soybean Meal and other Oilseed Meals
- 2 Cottonseed, whole or meal
- 3 Roasted Soybeans

4 High Bypass Soybean Meal

5 Other, specify: _____

6 No additional sources of protein

OFFICE USE

160

7. Where did you purchase the **majority** of your Co-Products?

- 1 Directly from ethanol plants
- 2 Through feed companies

3 Through brokers

4 Other, specify: _____

OFFICE USE

161

8. In which form(s) did you receive Co-Products for your beef cattle rations in 2006? Check all that apply.

- 1 Wet
- 2 Dry Coarse Meal
- 3 Dry Fine Meal
- 4 Lick Block/Tub

5 Liquid

6 Pellets/Cubes

7 Other, specify: _____

OFFICE USE

162

9. In which form(s) would you **like** to receive Co-Products for your beef cattle rations in the future? Check all that apply.

- 1 Wet
- 2 Dry Coarse Meal
- 3 Dry Fine Meal
- 4 Lick Block/Tub

5 Liquid

6 Pellets/Cubes

7 Other, specify: _____

OFFICE USE

163

10. What color do you prefer for the Co-Products for your beef cattle rations?

- 1 Light 3 Dark
 2 Medium 4 No Preference

OFFICE USE
164

11. Who formulates the **majority** of your beef cattle rations?

- 1 Feed Company Nutritionist 4 You (the operator)
 2 Independent Nutritionist 5 Other, specify: _____
 3 Extension Service

OFFICE USE
165

12. On the scale below, what is the level of importance of the following Co-Product characteristics to your beef cattle operation? Circle one answer for each characteristic.

1=No importance 2=Low importance 3=Medium importance 4=High importance 5=Don't know/NA

	No	Low	Medium	High	DK/NA	OFFICE USE
a. Quality Product.	1	2	3	4	5	166
b. Consistent Moisture.	1	2	3	4	5	167
c. Consistent Protein.	1	2	3	4	5	168
d. Consistent Fat.	1	2	3	4	5	169
e. Consistent Fiber.	1	2	3	4	5	170
f. Lysine Content.	1	2	3	4	5	171
g. Shelf Life after Delivery.	1	2	3	4	5	172
h. Freshness from Plant.	1	2	3	4	5	173
i. Form.	1	2	3	4	5	174
j. Handling Ease.	1	2	3	4	5	175
k. Price.	1	2	3	4	5	176

13. Which of the following Services **are available** from the Co-Products provider for your beef cattle rations? Check all that apply.

- 1 On-site Consultation 5 Variety of Products
 2 Nutritional Service 6 Education
 3 Delivery Service 7 None
 4 Nutrient Analysis 8 Other, specify: _____

OFFICE USE
177

14. What additional Services would you **like** to be provided by your Co-Products provider for your beef cattle rations? Check all that apply.

- 1 On-site Consultation 5 Variety of Products
 2 Nutritional Service 6 Education
 3 Delivery Service 7 None
 4 Nutrient Analysis 8 Other, specify: _____

OFFICE USE
178

15. On the scale below, what is the level of importance of the following Co-Product supplier services that are provided to your beef cattle operation? Circle one answer for each service.

1=No importance 2=Low importance 3=Medium importance 4=High importance 5=Don't know/NA

	No	Low	Medium	High	DK/NA	OFFICE USE
a. Reliability of Deliveries of Co-Products.	1	2	3	4	5	179
b. Availability of Supply of Co-Products.	1	2	3	4	5	180
c. Contracting.	1	2	3	4	5	181
d. Comparative Value.	1	2	3	4	5	182
e. Other, specify: _____	1	2	3	4	5	183

16. What type of contract purchase do you utilize for the **majority** of the Co-Products for your beef cattle?

- 1 Spot
- 2 Monthly
- 3 Quarterly
- 4 6-month
- 5 Clock
- 6 Yearly
- 7 Other, specify: _____

OFFICE USE
184

17. Is the price or value of the **majority** of the Co-Products you purchase based on:

- 1 Corn?
- 2 Soybean Meal?
- 3 Both Corn and Soybean Meal?
- 4 Other, specify: _____?

OFFICE USE
185

CONCLUSION

Comments:

Thank You

Respondent Name: _____ Phone: (_____) _____

9910	MM	DD	YY
Date:	_____	_____	_____

Response	9901	Respondent	9902	Mode	9903	Enum.	Eval.
1-Comp		1-Op/Mgr		1-Mail		098	100
2-R		2-Sp		2-Tel			
3-Inac		3-Acct/Bkpr		3-Face-to-Face			
4-Office Hold		4-Partner		4-CATI			
5-R – Est		9-Oth		5-Web			
6-Inac – Est				6-e-mail			
7-Off Hold – Est				7-Fax			
8-Known Zero				8-CAPI			
				19-Other			

Office Use for POID	
789	_____
Optional Use	
407	408

S/E Name _____

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SWINE CO-PRODUCTS SURVEY



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

P.O. Box 81089
Lincoln, NE 68501
Phone: 402-437-5541
Fax: 1-888-814-6117
Email: nass-ne@nass.usda.gov

Please make corrections to name, address and zip code, if necessary.

1. During 2006, did this operation have **any** hogs or pigs?

- YES** - Go to Question 2, below.
- NO** - Go to **Conclusion** on the back page.

2. During 2006, what was the **largest number** of hogs and pigs owned by this operation, regardless of location? (**Include** animals of any age, including newborns.)

**Largest
Number**

101

3. During 2006, did you feed Co-Products, such as Distillers Dried or Wet Grains, Corn Gluten Feed, Brewers Grains, Condensed Distillers Solubles or Co-Products from new processes, to your hogs and pigs?

- 1 Yes - Go to Question 4.**
- 3 No.** Have you ever fed or considered feeding Co-Products to your hogs and pigs?
 - Yes - Go to Question 3a.**
 - No - Go to Question 3a.**

OFFICE USE

102

3a. What is the **primary** reason for not feeding Co-Products to your hogs and pigs? Check one.

- | | | |
|---|---|--|
| <input type="checkbox"/> 1 Availability of Co-Products | <input type="checkbox"/> 7 Phosphorus or sulfur content | OFFICE USE
<div style="border: 1px solid black; width: 100px; height: 20px; text-align: center;">103</div> |
| <input type="checkbox"/> 2 Flowability due to moisture content | <input type="checkbox"/> 8 Price vs other protein sources | |
| <input type="checkbox"/> 3 More expensive than corn | <input type="checkbox"/> 9 Transportation problems | |
| <input type="checkbox"/> 4 More expensive than soybean meal | <input type="checkbox"/> 10 Uncertainty of nutritional value | |
| <input type="checkbox"/> 5 No storage facilities for Co-Products | <input type="checkbox"/> 11 Shelf life/Longevity of product | |
| <input type="checkbox"/> 6 Variability of Co-Products | <input type="checkbox"/> 12 Other reason, specify: _____ | |

3b. **Go to Conclusion** on the back page.

Years

104

4. How many **years** have you been feeding Co-Products to your swine?

5. Complete the table below for the type(s) of Co-Product fed to your swine during 2006.

Co-Product	Have you used this Co-Product?	How many total head were fed the Co-Product?	What was the average percent moisture?	What was the inclusion percentage on a dry matter basis of your ration?	What was the total amount fed (Tons) in 2006? (as fed basis)	What was the average price paid (F.O.B.) per ton? (as fed basis)
a. Condensed Distillers Solubles.	<input type="checkbox"/> Yes→	105	106	107	108	109
b. Distillers Dried Grains, No Solubles	<input type="checkbox"/> Yes→	110	111	112	113	114
c. Distillers Dried Grains with Solubles	<input type="checkbox"/> Yes→	115	116	117	118	119
d. Corn Gluten Feed.	<input type="checkbox"/> Yes→	120	121	122	123	124
e. Brewers Grains.	<input type="checkbox"/> Yes→	125	126	127	128	129
f. Distillers Wet Grain (25-40% Solids)	<input type="checkbox"/> Yes→	130	131	132	133	134
g. Distillers Wet Grain (over 40% Solids)	<input type="checkbox"/> Yes→	135	136	137	138	139
h. Co-Products from new Processes	<input type="checkbox"/> Yes→	140	141	142	143	144
i. Complete Commercial Feed.	<input type="checkbox"/> Yes→	145	146	147	148	149
j. Combination of Co-Products	<input type="checkbox"/> Yes→	150	151	152	153	154
k. Other Co-Product Specify : _____	<input type="checkbox"/> Yes→	155	156	157	158	159

6. Please check all the additional protein sources added to your swine rations in 2006. Check all that apply.

- | | | |
|---|---|-------------------|
| <input type="checkbox"/> 1 Soybean Meal and other Oilseed Meals | <input type="checkbox"/> 4 High Bypass Soybean Meal | OFFICE USE
160 |
| <input type="checkbox"/> 2 Cottonseed, whole or meal | <input type="checkbox"/> 5 Other, specify: _____ | |
| <input type="checkbox"/> 3 Roasted Soybeans | <input type="checkbox"/> 6 No additional sources of protein | |

7. Where did you purchase the **majority** of your Co-Products?

- | | | |
|---|--|-------------------|
| <input type="checkbox"/> 1 Directly from ethanol plants | <input type="checkbox"/> 3 Through brokers | OFFICE USE
161 |
| <input type="checkbox"/> 2 Through feed companies | <input type="checkbox"/> 4 Other, specify: _____ | |

8. In which form(s) did you receive Co-Products for your swine rations in 2006? Check all that apply.

- | | | |
|--|--|-------------------|
| <input type="checkbox"/> 1 Wet | <input type="checkbox"/> 5 Liquid | OFFICE USE
162 |
| <input type="checkbox"/> 2 Dry Coarse Meal | <input type="checkbox"/> 6 Pellets/Cubes | |
| <input type="checkbox"/> 3 Dry Fine Meal | <input type="checkbox"/> 7 Other, specify: _____ | |

9. In which form(s) would you **like** to receive Co-Products for your swine rations in the future? Check all that apply.

- | | | |
|--|--|-------------------|
| <input type="checkbox"/> 1 Wet | <input type="checkbox"/> 5 Liquid | OFFICE USE
163 |
| <input type="checkbox"/> 2 Dry Coarse Meal | <input type="checkbox"/> 6 Pellets/Cubes | |
| <input type="checkbox"/> 3 Dry Fine Meal | <input type="checkbox"/> 7 Other, specify: _____ | |

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