Missouri Soybean Resource Guide

Commissioned by the **Missouri Soybean Merchandising Council**

2011 Edition

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Dollars	 	1

Chapter 1: Soybean Production

1.1 Acreage

Exhibit 1.1.1 - Missouri Planted and Harvested Soybean Acreage, 1970 to 2011

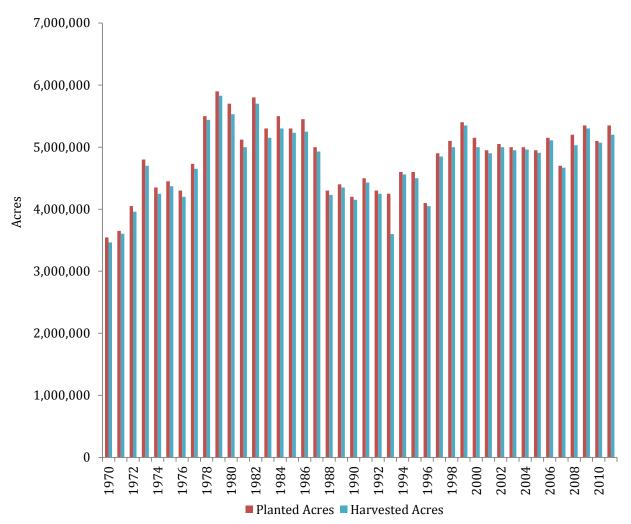


Exhibit 1.1.2 - Missouri Soybean Acres as a Percent of Total Missouri Crop Production Acreage, 1990 to 2011

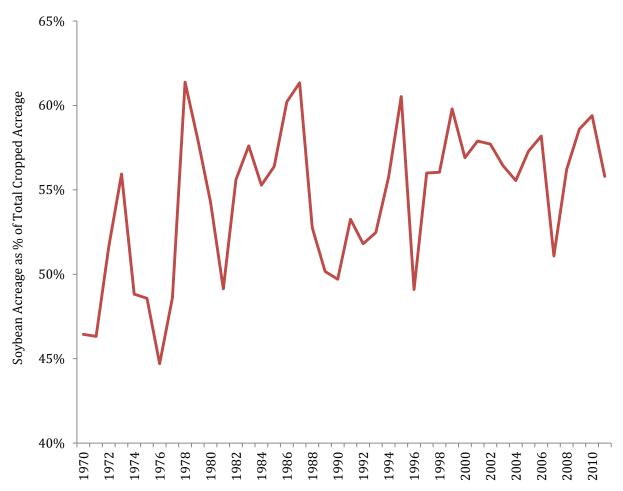


Exhibit 1.1.3 - Missouri's Share of U.S. Soybean Production, 1970 to 2011

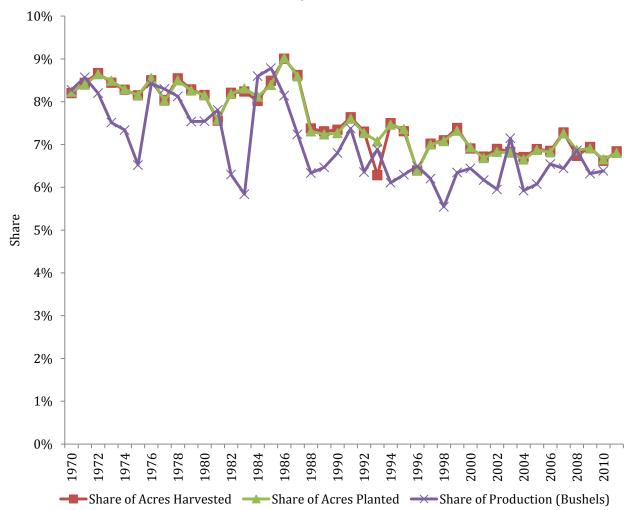


Exhibit 1.1.4 - Double Cropped Missouri Soybean Acreage Harvested as a Percent of Total Missouri Soybean Acreage Harvested, 1985 to 2011

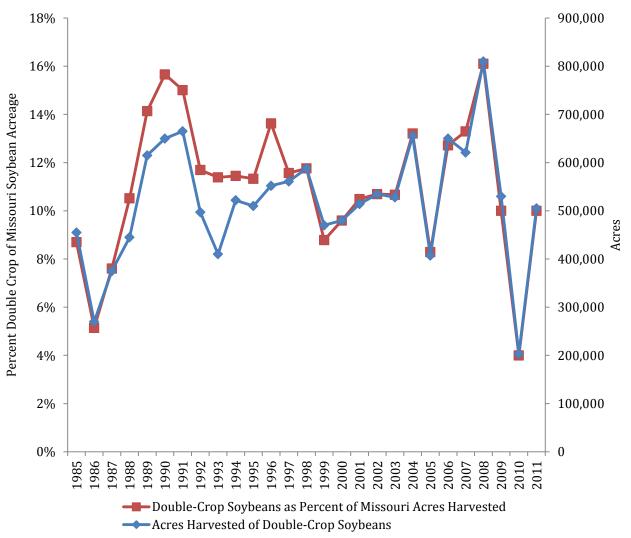
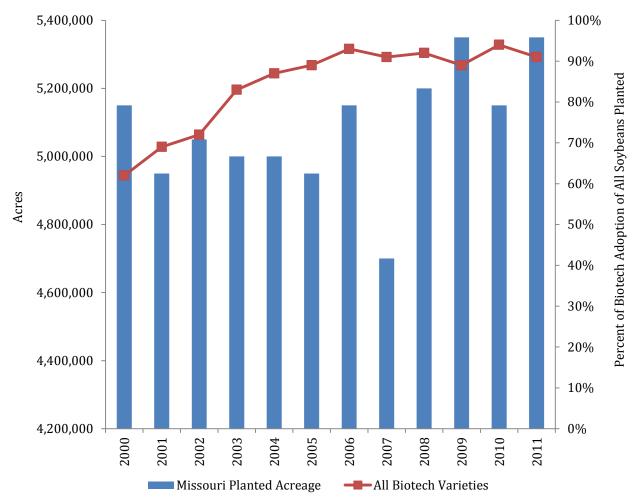


Exhibit 1.1.5 - Soybean Irrigated and Nonirrigated in Missouri, 1992 to 2007

		1992	% of Total	1997	% of Total	2002	% of Total	2007	% of Total
Entire	Farms	272	1.0%	281	1.2%	288	1.3%	277	1.5%
Crop	Acres	64,874	1.5%	78,553	1.7%	83,149	1.7%	83,623	1.8%
Irrigated	Avg. Yield per Acre*	39.9	1.7%	37.5	1.8%	35.8	1.8%	40.3	2.0%
	Farms	741	2.8%	871	3.6%	1,004	4.6%	972	5.3%
Part of	Acres Irrigated	128,074	3.0%	194,833	4.2%	265,137	5.3%	281,471	6.0%
Crop Irrigated	Acres Not Irrigated	240,065	5.7%	336,645	7.2%	415,150	8.3%	425,416	9.1%
IIIIgatou	Avg. Yield per Acre*	36.6	9.0%	34.9	11.3%	34.1	14.0%	33.0	14.0%
None of	Farms	25,587	96.2%	23,049	95.2%	20,395	94.0%	17,139	93.2%
Crop	Acres	3,775,716	89.7%	4,061,766	86.9%	4,238,422	84.7%	3,882,228	83.1%
Irrigated	Avg. Yield per Acre*	35.6	89.3%	35.2	86.9%	32.8	84.2%	35.9	83.9%

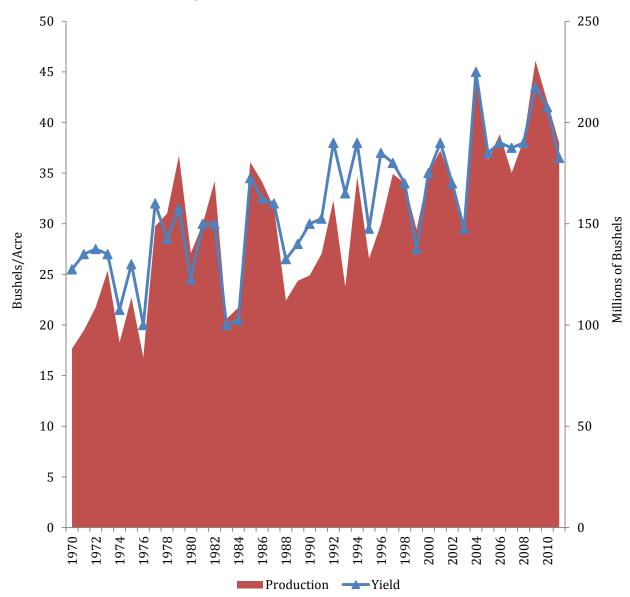
Source: USDA National Agricultural Statistics Service and Census of Agriculture *Average yield per acre is measured in bushels/acre.

Exhibit 1.1.6 – Soybean Acreage and All Biotech Variety Adoption in Missouri, 2000 to $2011\,$



1.2 Production and Yield

Exhibit 1.2.1 - Missouri Soybean Production Yield



Source: USDA National Agricultural Statistics Service Acreage Report

2,200 50 2,100 45 2,000 40 1,900 35 1,800 30 Row Width and Yield Pods 1,700 25 1,600 20 15 1,500 1,400 10 5 1,300 1,200 1997 1998 1999 2000 2000 2003 2006 2006 2006 2008 2008 2009 2009 2010

Yield (bu/acre)

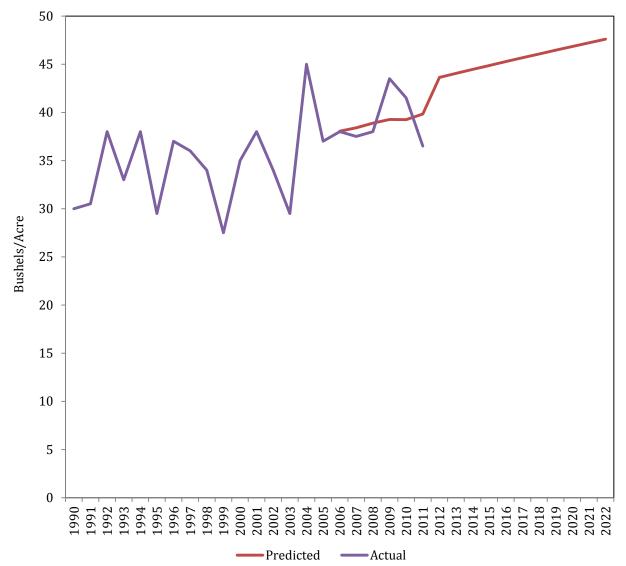
Avg Row Width (in)

Exhibit 1.2.2 - Missouri Soybean Yield, Pod Count and Row Width

Source: USDA National Agricultural Statistics Service

••••• Pods with beans/ 18 ft^2

Exhibit 1.2.3 - Missouri Actual Soybean Yield and Predicted Yield to 2022



Source: USDA National Agricultural Statistics Service and Value Ag, LLC

Production in bushels

15,000 - 298,000

298,000 - 985,667

985,667 - 2,055,333

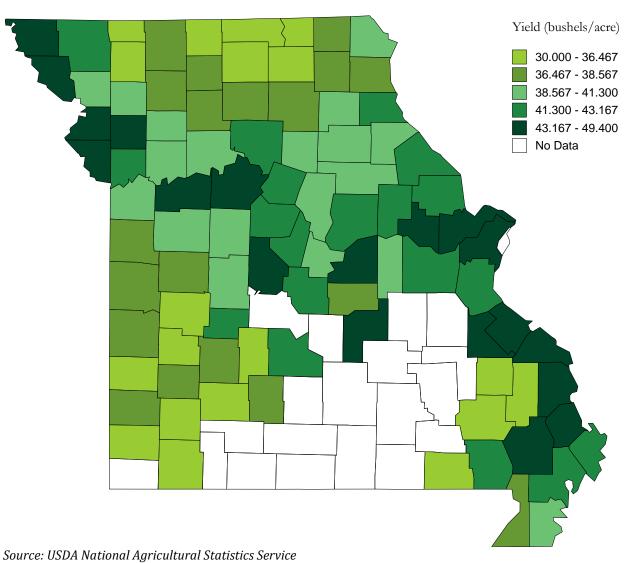
2,720,867 - 4,079,067

4,079,067 - 7,987,067

No Data

Exhibit 1.2.4 – Missouri Average Soybean Production by County, 2008 to 2010

Exhibit 1.2.5 - Missouri Average Soybean Yields, by County, 2008 to 2010



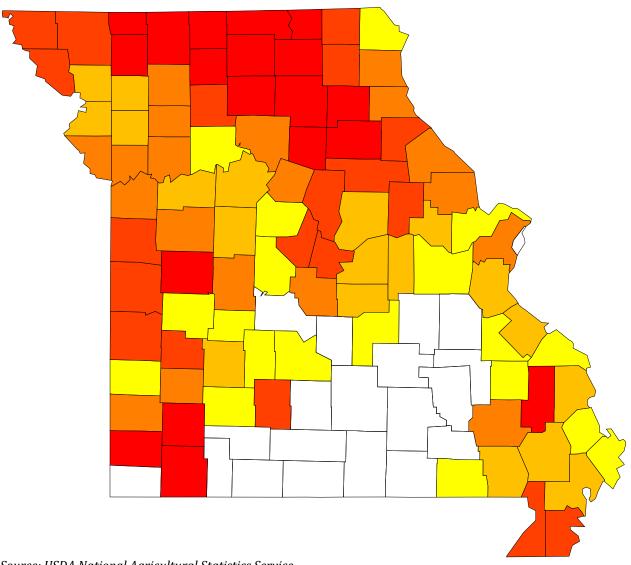


Exhibit 1.2.6 - Missouri Soybean Production Risk, 2008 to 2010

Source: USDA National Agricultural Statistics Service
* Note: Lighter colors indicate low yield variability after accounting for yield level. No color indicates that no data are available.

Exhibit 1.2.7 – Missouri Soybean Production Relative to Other States' Production, 2008-to-2010 Average

State	Yield (Bushels/Acre)	Area Harvested (1,000 Acres)
Nebraska	51.5	4,907
Iowa	49.7	9,643
Illinois	48.2	9,487
Indiana	47.5	5,400
New York	45.7	253
Ohio	44.3	4,533
Pennsylvania	42.7	457
Wisconsin	41.8	1,613
Missouri	41.2	5,133
Minnesota	41.0	7,133
Kentucky	39.0	1,393
Michigan	39.0	1,973
Mississippi	38.8	1,990
South Dakota	38.0	4,130
Kansas	37.8	3,717
Louisiana	37.7	970
Arkansas	37.0	3,223
Tennessee	36.7	1,467
Maryland	35.3	475
Delaware	34.0	183
Alabama	33.7	375
New Jersey	32.0	90
Virginia	31.7	560
Georgia	31.0	370
North Carolina	31.0	1,657
North Dakota	30.7	3,900
Oklahoma	30.3	408
Texas	26.7	193
South Carolina	26.7	517

^{*} Note: Yield and area harvested data are simple averages of data from 2008 to 2010.

1.3 Soybean Quality

Exhibit 1.3.1 - U.S. Soybean Production Quality

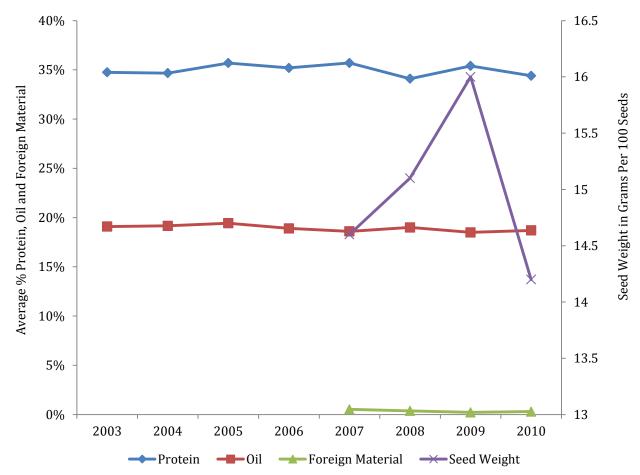
State	Weighted Average Percent Protein	Weighted Average Percent Oil	Weighted Average Percent FM	Weighted Average Seed Weight (Grams/100 Seeds)
Alabama	35.50	19.16	1.11	13.69
Arkansas	35.64	19.27	0.54	14.62
Delaware	35.36	19.15	0.39	14.72
Florida*	36.50			
Georgia**	36.08	19.43	0.30	15.48
Illinois	35.02	18.64	0.29	15.54
Indiana	35.34	18.63	0.28	15.01
Iowa	34.39	18.81	0.27	15.26
Kansas	34.36	18.82	0.44	15.15
Kentucky	34.70	19.23	0.35	14.49
Louisiana	36.62	19.37	0.61	14.51
Maryland	35.58	18.77	0.23	16.48
Michigan	35.29	18.63	0.17	15.25
Minnesota	34.09	18.64	0.22	15.34
Mississippi	35.87	19.28	0.68	14.47
Missouri	34.62	18.73	0.30	15.03
Nebraska	34.06	18.80	0.23	15.21
New Jersey	36.47	18.80	0.96	14.47
New York	36.14	17.85	0.14	16.35
North Carolina	35.22	19.32	0.28	14.88
North Dakota	33.87	18.43	0.23	14.84
Ohio	35.29	18.78	0.22	15.56
Oklahoma	35.92	18.41	0.41	15.33
Pennsylvania	35.19	18.51	0.17	15.45
South Carolina	35.38	19.14	0.27	14.71
South Dakota	34.13	18.37	0.38	14.69
Tennessee	34.81	19.50	0.42	14.61
Texas	34.30	19.98	0.27	15.14
Virginia	34.93	18.75	0.62	15.74
Wisconsin	34.52	18.63	0.34	16.08
Unless noted, percent averag	es are weighted base	d on samples take	en from 2008 to 20	010.
* Just 2009 data.				
** Averages computed with 2	2008 to 2009 data.			

Exhibit 1.3.2 - Trends in Missouri Soybean Quality

		Protei	n (%)	Oil ((%)
	Number of	Percent	Standard	Percent	Standard
	Samples	Average	Deviation	Average	Deviation
2003	67	34.75	2.17	19.09	1.09
2004	65	34.67	1.22	19.16	0.7
2005	96	35.69	1.65	19.43	0.87
2006	82	35.2	1.98	18.9	0.98
2007	109	35.7	1.55	18.6	0.78
2008	81	34.1	1.5	19	0.9
2009	83	35.4	1	18.5	0.9
2010	105	34.4	1.3	18.7	1.1

		Foreign Ma	iterial (%)		Weight 100 Seeds)
	Number of	Percent	Percent Standard		Standard
	Samples	Average	Deviation	Average	Deviation
2007	109	0.53	0.0233	14.6	1.96
2008	81	0.37	0.62	15.1	1.5
2009	83	0.22	0.28	16	1.5
2010	105	0.3	0.4	14.2	1.4

Exhibit 1.3.3 - Changes in Missouri Soybean Quality



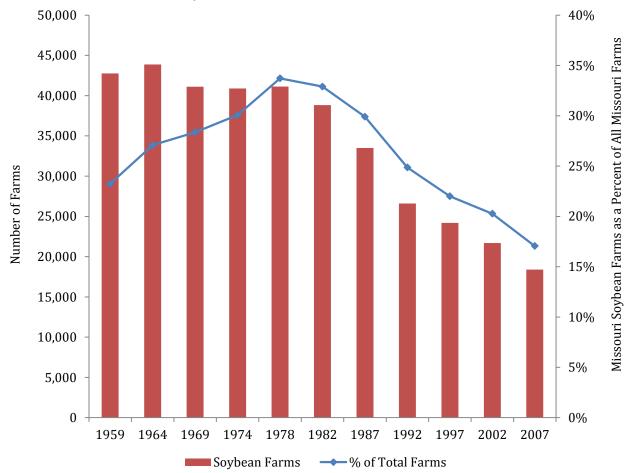
1.4 Soybean Farms and Soybean Farm Characteristics

Exhibit 1.4.1 - Missouri Farms with Soybeans, Acreage and Bushels Produced, 2007

Farm Size	Number of Soybean Farms	% of Total Farms	Number of Acres	% of Total Acres	Bushels Produced	% of Total Bushels Produced
1 to 99 acres	2,356	13%	67,161	1%	2,117,299	1%
100 to 259 acres	4,268	23%	261,755	6%	8,754,809	5%
260 to 499 acres	3,781	21%	420,120	9%	13,895,880	8%
500 to 999 acres	3,756	20%	882,319	19%	30,562,191	18%
1,000 to 1,999 acres	2,740	15%	1,358,117	29%	48,034,385	29%
2,000 or more acres	1,487	8%	1,683,266	36%	62,582,759	38%
Total	18,388	100%	4,672,738	100%	165,947,323	100%

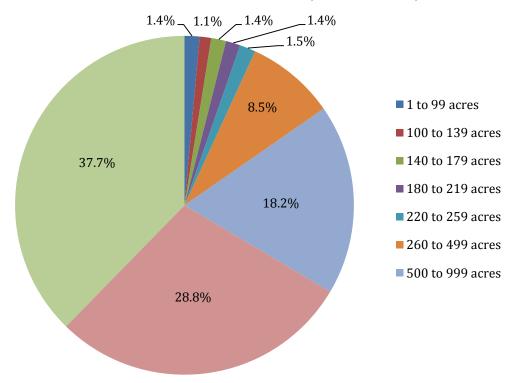
Source: USDA - National Agricultural Statistics Service, Census of Agriculture, 2007

Exhibit 1.4.2 - Missouri Soybean Farms, 1959 to 2007



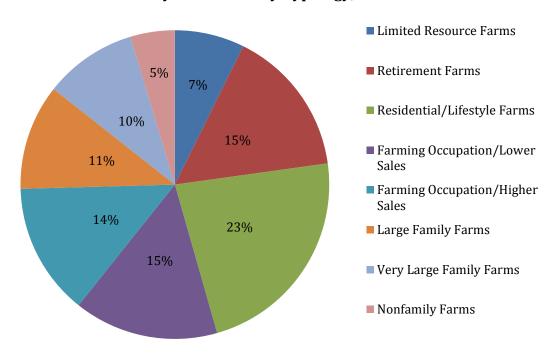
Source: USDA - National Agricultural Statistics Service, Census of Agriculture

Exhibit 1.4.3 - Missouri Percent Market Value of Soybeans Sold, by Farm Size, 2007



Source: USDA – National Agricultural Statistics Service, Census of Agriculture, 2007

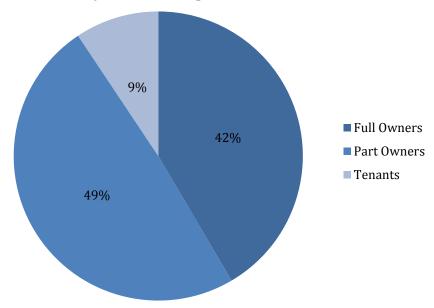
Exhibit 1.4.4 - Missouri Soybean Farms by Typology, 2007



Source: USDA – National Agricultural Statistics Service, Census of Agriculture, 2007

^{*} Note: Limited resource, retirement, residential/lifestyle, farming occupation/lower sales and farming occupation/higher sales are subsets of the "small family farm" designation.

Exhibit 1.4.5 - Missouri Soybean Farm Operator Classification, 2007



Source: USDA – National Agricultural Statistics Service, Census of Agriculture, 2007

1.5 Cost of Production

Exhibit 1.5.1 - Missouri Soybean Cost of Production

	2008 (\$ Per Acre)	2009 (\$ Per Acre)	2010 (\$ Per Acre)	Three-Year Average (\$ Per Acre)
Operating Costs				
Seed	\$42.98	\$53.50	\$57.49	\$51.32
Fertilizer *	\$23.42	\$22.01	\$16.88	\$20.77
Chemicals	\$15.29	\$16.87	\$16.64	\$16.27
Custom operations	\$5.54	\$6.03	\$6.10	\$5.89
Fuel, lube and electricity	\$15.82	\$10.48	\$13.06	\$13.12
Repairs	\$11.25	\$11.47	\$11.69	\$11.47
Interest on operating capital	\$2.56	\$0.17	\$0.12	\$0.95
Total, nonland labor and management operating costs	\$116.86	\$120.53	\$121.98	\$119.79
Allocated Overhead Costs				
Hired labor	\$1.23	\$1.26	\$1.27	\$1.25
Opportunity cost of unpaid labor	\$15.34	\$15.67	\$15.84	\$15.62
Capital recovery of machinery and equipment	\$67.16	\$71.33	\$73.90	\$70.80
Opportunity cost of land (rental rate)	\$96.91	\$101.29	\$105.67	\$101.29
Taxes and insurance	\$9.51	\$10.68	\$9.29	\$9.83
General farm overhead	\$14.34	\$14.62	\$14.90	\$14.62
Total, allocated overhead	\$218.25	\$241.48	\$263.53	\$241.09
TOTAL	\$321.35	\$362.01	\$385.51	\$356.29

^{*} Represents commercial fertilizer, soil conditioners and manure. Source: USDA Economic Research Service and University of Missouri Extension

Exhibit 1.5.2 - Soybean Seed Cost Incurred by Missouri Farmers

Year	MU Seed Cost Estimate (\$/acre)	Missouri Planted Soybean Acres	Total Missouri Seed Cost	Inflation Multiplier	Inflation- Adjusted (2011 Dollars)
1975	\$8.00	4,450,000	\$35,600,000	4.18	\$148,808,000
1980	\$7.50	5,700,000	\$42,750,000	2.73	\$116,707,500
1985	\$10.25	5,300,000	\$54,325,000	2.09	\$113,539,250
1990	\$11.09	4,200,000	\$46,578,000	1.72	\$80,114,160
1995	\$12.81	4,600,000	\$58,926,000	1.48	\$87,210,480
2000	\$20.00	5,150,000	\$103,000,000	1.31	\$134,930,000
2005	\$30.60	4,950,000	\$151,470,000	1.15	\$174,190,500
2008	\$36.27	5,200,000	\$188,604,000	1.04	\$196,148,160
2010	\$47.60	5,150,000	\$245,140,000	1.03	\$252,494,200
2011	\$49.87	5,350,000	\$266,804,500		_

Source: MU Ag Lender and Farm Management Reports, USDA National Agricultural Statistics Service and U.S. Bureau of Labor Statistics

Exhibit 1.5.3 - Soybean Chemical Cost Incurred by Missouri Farmers

Year	MU Chemical Cost Estimate (\$/acre)	Missouri Planted Soybean Acres	Total Missouri Chemical Cost	Inflation Multiplier	Inflation- Adjusted (2011 Dollars)
1975	\$9.50	4,450,000	\$42,275,000	4.18	\$176,709,500
1980	\$15.50	5,700,000	\$88,350,000	2.73	\$241,195,500
1985	\$19.00	5,300,000	\$100,700,000	2.09	\$210,463,000
1990	\$21.39	4,200,000	\$89,838,000	1.72	\$154,521,360
1995	\$29.95	4,600,000	\$137,770,000	1.48	\$203,899,600
2000	\$25.00	5,150,000	\$128,750,000	1.31	\$168,662,500
2005	\$10.29	4,950,000	\$50,935,500	1.15	\$58,575,825
2008	\$6.07	5,200,000	\$31,564,000	1.04	\$32,826,560
2010	\$8.40	5,150,000	\$43,260,000	1.03	\$44,557,800
2011	\$6.40	5,350,000	\$34,240,000		

Source: MU Ag Lender and Farm Management Reports, USDA National Agricultural Statistics Service and U.S. Bureau of Labor Statistics

Exhibit 1.5.4 - Missouri Soybean Herbicide Application and Rates, 1990 to 2006

			2,4-D		Chl	orimuror	n-ethyl		Glyphosa	ate		Triflural	in	P	endimetl	nalin
	Planted	Area		Total												
	Acres (1,000)	Applied (%)	Rate (lb/acre)	Applied (1,000 lbs)	Applied (%)	Rate (lb/acre)	Applied (1,000 lbs)	Applied (%)	Rate (lb/acre)	Applied (1,000 lbs)	Applied (%)	Rate (lb/acre)	Applied (1,000 lbs)	Applied (%)	Rate (lb/acre)	Applied (1,000 lbs)
1990	4,200	(70)	(ID/ aci e)	(1,000 103)	17	0.03	21	(70)	(ID/ acre)	(1,000 103)	(70)	(ID/acre)	(1,000 103)	26	0.75	819
1991	4,500				22	0.02	25				27	0.85	1,050	27	0.78	955
1992	4,300				21	0.03	23	8	0.72	252	34	0.83	1,193	27	0.77	877
1993	4,200	6	0.41	104	21	0.03	24	15	0.69	446	19	0.69	552	35	0.78	1,152
1994	4,600	7	0.40	123	15	0.02	18	16	0.59	438	17	0.82	637	37	0.79	1,349
1995	4,600	8	0.48	178	16	0.02	13	31	0.86	1,218	16	0.69	514	30	0.82	1,131
1996	4,100	O	0.10	170	16	0.02	15	24	0.81	803	32	1.09	1,450	17	0.77	541
1997	4,900	13	0.33	206	13	0.02	16	22	0.91	999	26	0.94	1,176	32	1.12	1,772
1998	5,100	3	0.41	71	7	0.02	7	41	1.02	2,163	22	0.94	1,043	18	0.92	844
1999	5,400	3	0.41	/1	17	0.02	29	63	0.96	3,234	14	1.00	751	12	0.92	608
2000	5,150				25	0.03	32	66	0.90	3,309	6	1.00	299	15	0.90	718
2001	4,950	_	0 = 0	4.60	11	0.02	8	73	0.85	3,080	11	0.78	411	5	1.10	280
2002	5,050	6	0.52	160	8	0.02	9	84	1.03	4,328						
2004	5,000	4	1.08	238	7	0.02	8	90	1.05	4,717	2	1.26	130	2	0.92	81
2006	5,150	3	1.15	155	7	0.02	7	93	1.27	6,061						

Source: USDA - National Agricultural Statistics Service

^{*} Note: Data have not been published since 2006.

Exhibit 1.5.5 - Missouri Soybean Production Budgets, Revenues and Costs

	1975	1980	1985	1990	1995	2000	2005	2008	2009	2010	2011
Yield/acre	29.50	36.30	31.30	30.95	35.00	35.00	45.00	50.00	50.00	50.00	50.00
Market price/bushel	-	-	-	-	-	-	5.36	7.90	8.00	9.00	10.00
Estimated Income/acre											
Crop income (yield x price)	-	-	-	-	-	-	241.20	395.00	400.00	450.00	500.00
Net payments (fixed)	-	-	-	-	-	-	14.15	14.15	14.15	14.15	14.15
Estimated Total Income/Acre	-	-	-	-	-	-	255.35	409.15	414.15	464.15	514.15
Estimated Operating Costs/Acre											
Seed	8.00	7.50	10.25	11.09	12.81	20.00	30.60	36.27	43.07	47.60	49.87
Fertilizer and soil amendments	3.50	10.00	4.25	5.45	5.12	7.75	28.55	37.80	95.20	47.70	52.90
Crop protection chemicals	9.50	15.50	19.00	21.39	29.95	25.00	10.29	6.07	12.90	8.40	6.40
Crop supplies, storage, marketing	-	-	-	-	-	-	-	1.00	1.00	1.00	1.00
Crop insurance and consulting	-	-	2.25	1.62	1.99	-	-	9.35	18.00	16.00	18.00
Custom hire and rental	2.50	3.50	5.50	4.71		4.50	6.75	-	-	-	-
Machinery fuel, drying and irrigation energy	-	-	-	-	4.14	20.00	18.53	12.87	13.71	11.60	10.69
Machinery repairs and maintenance	12.50	22.58	22.25	26.09	22.99	-	-	11.25	10.96	11.79	10.61
Operator and hired labor	14.00	18.00	19.00	22.69	20.12	23.50	20.44	10.58	11.02	11.32	10.50
Operating interest @ 7% x 1/2 year	5.50	9.00	6.50	9.50	9.16	5.12	3.92	5.01	8.75	5.44	5.20
Miscellaneous*	4.00	6.50	6.50	7.52	8.29	13.00	15.36	-	-	-	-
Total Operating Costs/Acre	59.50	92.58	95.50	110.06	114.57	118.87	134.44	130.20	214.61	160.85	165.17
Estimated Ownership Costs/Acre											
Farm business overhead	-	-	-	-	-	-	-	4.20	4.32	4.32	4.50
Machinery overhead	-	-	-	-	_	-	-	17.48	18.69	19.08	17.31
Machinery depreciation	15.50	26.50	27.00	17.35	21.69	28.00	31.36	22.09	24.65	23.98	21.05
Real estate charge	43.00	79.50	78.00	68.71	76.93	83.00	89.76	107.50	121.50	112.60	133.50
Total Ownership Costs/Acre	58.50	106.00	105.00	86.06	98.62	111.00	121.12	151.27	169.16	159.98	176.36

Estimated Total Costs/Acre	118.00	198.58	200.50	196.12	213.19	229.87	255.56	281.47	383.77	320.83	341.53
Income over Operating Costs/Acre Income over Total Costs/Acre	-	-	-	- -	-	- 118.87 -	120.91 -0.21	278.95 127.68	199.54 30.38	303.30 143.32	348.98 172.62
Operating Costs/bushel Total Costs/Bushel	2.02 4.00	1.79 6.97	2.31 5.52	2.42 6.27	3.25 6.89	3.40 6.57	2.99 5.68	2.60 5.63	4.29 7.68	3.22 6.42	3.30 6.83

Source: University of Missouri Extension Ag Lender & Farm Management Reports

^{*} Note: Information before 2000 is based on estimates of actual costs. From 2000 onward, the statistics represent projections made based on prior year data. Miscellaneous category contains information on operating costs for categories for which a dash (-) is reported prior to 2008.

Exhibit 1.5.6 - Missouri Soybean Production Total Budgets, Revenues and Costs, Inflation-Adjusted to 2011 Dollars

	1975	1975- Adjusted	1980	1980- Adjusted	1985	1985- Adjusted	1990	1990- Adjusted
Estimated Operating Costs								
Seed	\$35,600,000	\$150,232,000	\$42,750,000	\$117,563,000	\$52,480,000	\$110,733,000	\$46,578,000	\$81,046,000
Fertilizer and soil amendments	\$15,575,000	\$65,727,000	\$57,000,000	\$156,750,000	\$21,760,000	\$45,914,000	\$22,890,000	\$39,829,000
Crop protection chemicals	\$42,275,000	\$178,401,000	\$88,350,000	\$242,963,000	\$97,280,000	\$205,261,000	\$89,838,000	\$156,318,000
Crop supplies, storage, marketing	-	-	-	-	-	-	-	-
Crop insurance and consulting	-	-	-	-	\$11,520,000	\$24,307,000	\$6,804,000	\$11,839,000
Custom hire and rental	\$11,125,000	\$46,948,000	\$19,950,000	\$54,863,000	\$28,160,000	\$59,418,000	\$19,782,000	\$34,421,000
Machinery fuel, drying and irrigation energy	-	-	-	-	-	-	-	-
Machinery repairs and maintenance	\$55,625,000	\$234,738,000	\$128,706,000	\$353,942,000	\$133,920,000	\$240,371,000	\$109,578,000	\$190,666,000
Operator and hired labor	\$62,300,000	\$262,906,000	\$102,600,000	\$282,150,000	\$97,280,000	\$205,261,000	\$95,298,000	\$165,819,000
Operating interest @ 7% x 1/2 year	\$24,475,000	\$103,285,000	\$51,300,000	\$141,075,000	\$33,280,000	\$70,221,000	\$39,900,000	\$69,426,000
Miscellaneous*	\$17,800,000	\$75,116,000	\$37,050,000	\$101,888,000	\$33,280,000	\$70,221,000	\$31,584,000	\$54,956,000
Total Operating Costs	\$264,775,000	\$1,117,351,000	\$527,706,000	\$1,451,192,000	\$488,960,000	\$1,031,706,000	\$462,252,000	\$804,318,000
Estimated Ownership Costs								
Farm business overhead	-	-	-	-	-	-	-	-
Machinery overhead	-	-	-	-	-	-	-	-
Machinery depreciation	\$68,975,000	\$291,075,000	\$151,050,000	\$415,388,000	\$138,240,000	\$291,686,000	\$72,870,000	\$126,794,000
Real estate charge	\$191,350,000	\$807,497,000	\$453,150,000	\$1,246,163,000	\$399,360,000	\$842,650,000	\$288,582,000	\$502,133,000
Total Ownership Costs	\$260,325,000	\$1,098,572,000	\$604,200,000	\$1,661,550,000	\$537,600,000	\$1,134,336,000	\$361,452,000	\$628,926,000
Estimated Total Costs	\$525,100,000	\$2,215,922,000	\$1,131,906,000	\$3,112,742,000	\$1,026,560,000	\$2,166,042,000	\$823,704,000	\$1,433,245,000

	1995	1995- Adjusted	2000	2000- Adjusted	2005	2005- Adjusted	2007	2007- Adjusted
Estimated Operating Costs								
Seed Fertilizer and soil	\$58,926,000	\$87,800,000	\$103,000,000	\$135,960,000	\$151,470,000	\$175,705,200	\$159,800,000	\$174,182,000
amendments	\$23,552,000	\$35,092,000	\$39,912,500	\$52,684,500	\$141,322,500	\$163,934,100	\$131,600,000	\$143,444,000
Crop protection chemicals Crop supplies, storage,	\$137,770,000	\$205,277,000	\$128,750,000	\$169,950,000	\$50,935,500	\$59,085,180	\$28,529,000	\$31,096,610
marketing	-	-	-	-	-	-	\$4,700,000	\$5,123,000
Crop insurance and consulting	\$9,154,000	\$13,639,000	-	-	-	-	\$24,769,000	\$26,998,210
Custom hire and rental Machinery fuel, drying and	-	-	\$23,175,000	\$30,591,000	\$33,412,500	\$38,758,500	-	-
irrigation energy Machinery repairs and	\$19,044,000	\$28,376,000	\$103,000,000	\$135,960,000	\$91,723,500	\$106,399,260	\$46,906,000	\$51,127,540
maintenance	\$105,754,000	\$151,573,000	-	-	-	-	\$48,269,000	\$52,613,210
Operator and hired labor Operating interest @ 7% x	\$92,552,000	\$137,902,000	\$121,025,000	\$159,753,000	\$101,178,000	\$117,366,480	\$45,637,000	\$49,744,330
1/2 year	\$42,136,000	\$62,783,000	\$26,368,000	\$34,805,760	\$19,404,000	\$22,508,640	\$21,432,000	\$23,360,880
Miscellaneous*	\$38,134,000	\$56,820,000	\$66,950,000	\$88,374,000	\$76,032,000	\$88,197,120	-	-
Total Operating Costs	\$527,022,000	\$785,263,000	\$612,180,500	\$808,078,260	\$665,478,000	\$771,954,480	\$511,642,000	\$557,689,780
Estimated Ownership Costs								
Farm business overhead	-	-	-	-	-	-	\$19,176,000	\$20,901,840
Machinery overhead	-	-	-	-	-	-	\$78,114,000	\$85,144,260
Machinery depreciation	\$99,774,000	\$148,663,000	\$144,200,000	\$190,344,000	\$155,232,000	\$180,069,120	\$98,465,000	\$107,326,850
Real estate charge	\$353,878,000	\$527,278,000	\$427,450,000	\$564,234,000	\$444,312,000	\$515,401,920	\$437,100,000	\$476,439,000
Total Ownership Costs	\$453,652,000	\$675,941,000	\$571,650,000	\$754,578,000	\$599,544,000	\$695,471,040	\$632,855,000	\$689,811,950
Estimated Total Costs	\$980,674,000	\$1,461,204,000	\$1,183,830,500	\$1,562,656,260	\$1,265,022,000	\$1,467,425,520	\$1,144,497,000	\$1,247,501,730

	2008	2008- Adjusted	2009	2009- Adjusted	2010	2010- Adjusted	2011
Estimated Operating Costs							
Seed	\$188,604,000	\$198,034,200	\$230,424,500	\$244,249,970	\$245,140,000	\$252,494,200	\$266,804,500
Fertilizer and soil amendments	\$196,560,000	\$206,338,000	\$509,320,000	\$539,879,000	\$245,655,000	\$253,024,650	\$283,015,000
Crop protection chemicals	\$31,564,000	\$33,142,200	\$69,015,000	\$73,155,900	\$43,260,000	\$44,557,800	\$34,240,000
Crop supplies, storage, marketing	\$5,200,000	\$5,460,000	\$5,350,000	\$5,671,000	\$5,150,000	\$5,304,500	\$5,350,000
Crop insurance and consulting	\$48,620,000	\$51,051,000	\$96,300,000	\$102,078,000	\$82,400,000	\$84,872,000	\$96,300,000
Custom hire and rental	-	-	-	-	-	-	-
Machinery fuel, drying and irrigation energy	\$66,924,000	\$70,270,200	\$73,348,500	\$77,749,410	\$59,740,000	\$61,532,200	\$57,191,500
Machinery repairs and maintenance	\$58,500,000	\$61,425,000	\$58,636,000	\$62,154,160	\$60,718,500	\$62,540,055	\$56,763,500
Operator and hired labor	\$55,016,000	\$57,766,700	\$58,957,000	\$62,494,420	\$58,298,000	\$60,046,940	\$56,175,000
Operating interest @ 7% x 1/2 year	\$26,052,000	\$27,354,600	\$46,812,500	\$49,621,250	\$28,016,000	\$28,856,480	\$27,820,000
Miscellaneous*	-	-	-	-	-	-	-
Total Operating Costs	\$677,040,000	\$710,892,000	\$1,148,163,500	\$1,217,053,310	\$828,377,500	\$853,228,825	\$883,659,500
Estimated Ownership Costs							
Farm business overhead	\$21,840,000	\$22,932,000	\$23,112,000	\$24,498,720	\$22,248,000	\$22,915,440	\$24,075,000
Machinery overhead	\$90,896,000	\$95,440,800	\$99,991,500	\$105,990,990	\$98,262,000	\$101,209,860	\$92,608,500
Machinery depreciation	\$114,868,000	\$120,611,400	\$131,877,500	\$139,790,150	\$123,497,000	\$127,201,910	\$112,617,500
Real estate charge	\$559,000,000	\$586,950,000	\$650,025,000	\$689,026,500	\$579,890,000	\$597,286,700	\$714,225,000
Total Ownership Costs	\$786,604,000	\$825,934,200	\$905,006,000	\$959,306,360	\$823,897,000	\$848,613,910	\$943,526,000
Estimated Total Costs	\$1,463,644,000	\$1,536,826,200	\$2,053,169,500	\$2,176,359,670	\$1,652,274,500	\$1,701,842,735	\$1,827,185,500

Exhibit 1.5.7 - Missouri Farmland Prices and Appreciation, 1918 to 2011

Look-Back Period	Time Period	Starting Value Land Price: \$/Acre	Ending Value Land Price: \$/Acre	Compound Annual % Appreciation
13 years	1998 to 2011	\$1,130	\$2,530	6.95%
23 years	1988 to 2011	\$684	\$2,530	6.13%
33 years	1978 to 2011	\$628	\$2,530	4.45%
43 years	1968 to 2011	\$217	\$2,530	6.02%
53 years	1958 to 2011	\$110	\$2,530	6.22%
63 years	1948 to 2011	\$64	\$2,530	6.11%
73 years	1938 to 2011	\$31	\$2,530	6.30%
83 years	1928 to 2011	\$54	\$2,530	4.80%
93 years	1918 to 2011	\$72	\$2,530	3.94%

Exhibit 1.5.8 - Missouri Cropland Cash Rents, Per Acre, 1997 to 2011

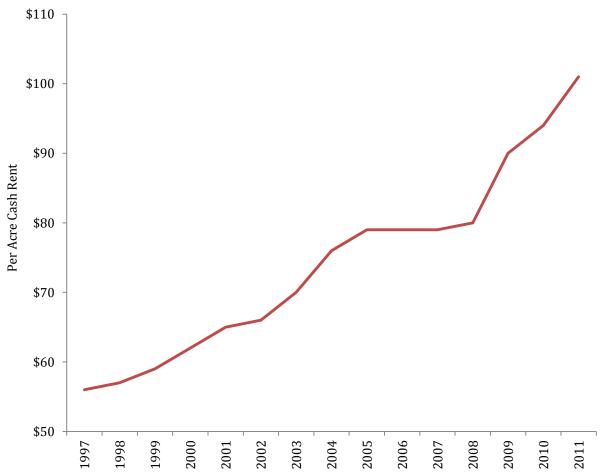


Exhibit 1.5.9 - Cash Rent Land Value of Acreage Used for Missouri Soybeans

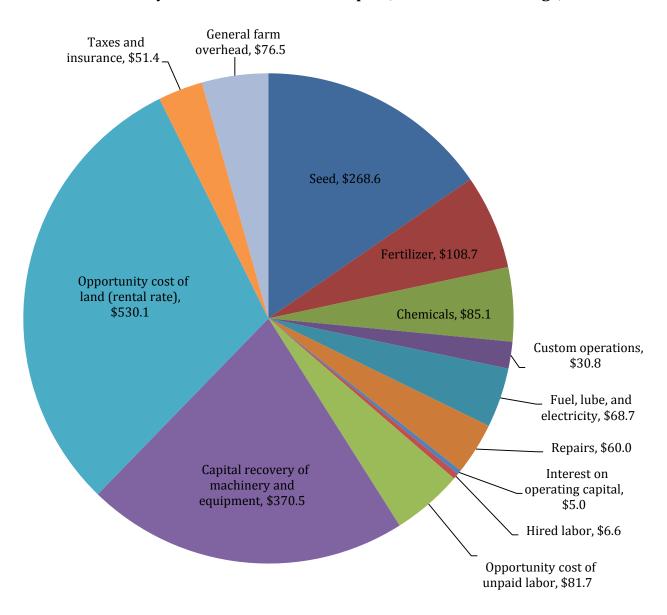
Year	Land Value
1997	\$274,400,000
1998	\$290,700,000
1999	\$318,600,000
2000	\$319,300,000
2001	\$321,750,000
2002	\$333,300,000
2003	\$350,000,000
2004	\$380,000,000
2005	\$391,050,000
2006	\$406,850,000
2007	\$371,300,000
2008	\$416,000,000
2009	\$481,500,000
2010	\$484,100,000
2011	\$540,350,000

Exhibit 1.5.10 - Missouri Total State Herbicide Costs Paid Out by Soybean Farmers

	2,4-D	Chlorimuron-ethyl	Glyphosate	Trifuluralin	Pendimethalin
1991	-	\$7,120,000	-	\$3,368,984	\$3,630,044
1992	-	\$6,587,200	\$1,316,333	\$4,082,995	\$3,493,387
1993	\$134,715	\$6,912,000	\$2,758,577	\$1,901,005	\$4,573,809
1994	\$172,073	\$5,270,400	\$2,787,093	\$2,214,171	\$5,285,720
1995	\$261,927	\$3,848,000	\$7,822,708	\$1,803,123	\$4,254,869
1996	-	\$4,464,000	\$5,309,863	\$5,055,615	\$2,056,392
1997	\$318,073	\$4,864,000	\$6,724,517	\$3,949,348	\$6,781,671
1998	\$109,627	\$1,444,800	\$14,456,977	\$3,335,369	\$3,252,070
1999	-	\$5,382,400	-	\$2,345,369	\$2,271,492
2000	-	\$6,092,800	\$17,009,723	\$815,455	\$2,205,780
2001	-	\$1,587,200	\$16,271,339	\$1,112,118	\$841,968
2002	\$247,047	\$1,785,600	\$22,350,595	-	-
2004	\$374,881	\$1,702,400	\$22,231,510	\$321,176	\$243,569
2006	\$260,207	\$1,556,800	\$21,082,615	-	-
2007	-	-	\$20,215,849	-	-
2008	-	-	\$32,661,366	-	-
2009	-	-	\$22,943,040	-	-
2010	-	-	\$35,743,500	-	-
2011	-	-	\$23,887,500	-	-

Source: USDA/NASS and estimated.

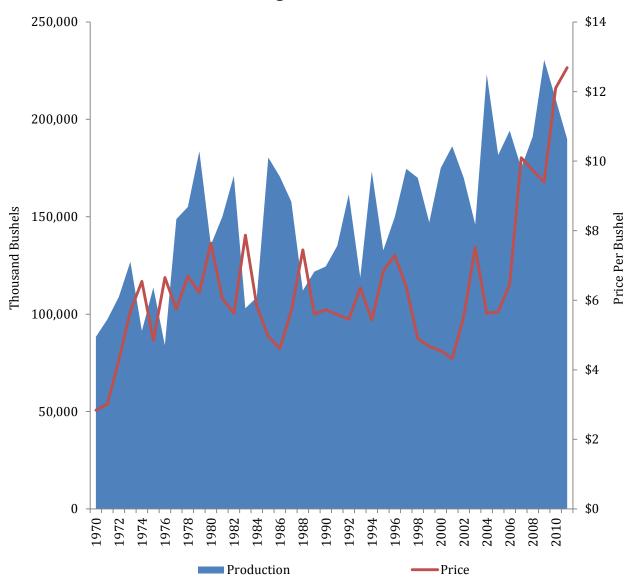
Exhibit 1.5.11 - Soybean Production Dollars Spent, 2008 to 2010 Average, Millions



Source: USDA Economic Research Service, USDA National Agricultural Statistics Service and University of Missouri Extension

1.6. Farm Revenue and Profits

Exhibit 1.6.1 - Missouri Season Average Farm Price and Production, 1970 to 2011



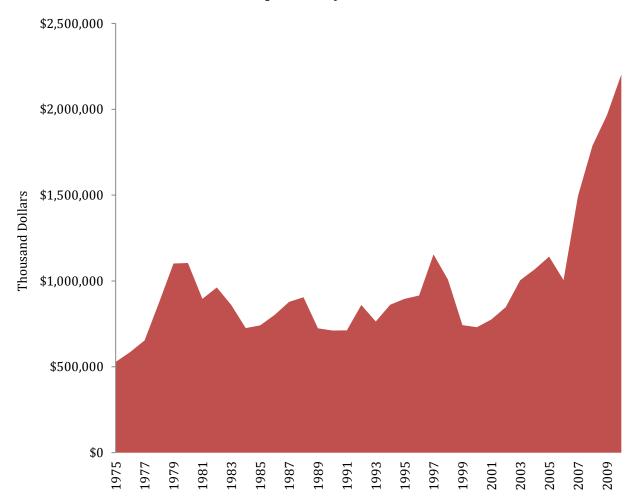
Source: USDA National Agricultural Statistics Service

Exhibit 1.6.2 - Missouri Leading Commodities for Cash Receipts, 2008 to 2010

	2008	2009	2010	Three-Year Average
Soybeans	\$1,787,765,000	\$1,965,489,000	\$2,202,942,000	\$1,985,398,667
Corn	\$1,695,154,000	\$1,434,104,000	\$1,527,645,000	\$1,552,301,000
Cattle and calves	\$1,265,139,000	\$1,224,631,000	\$1,408,910,000	\$1,299,560,000
Hogs	\$870,817,000	\$765,545,000	\$783,628,000	\$806,663,333
Turkeys	\$371,070,000	\$305,250,000	\$364,932,000	\$347,084,000

Source: USDA Economic Research Service

Exhibit 1.6.3 - Missouri Cash Receipts for Soybeans, 1975 to 2010



Source: USDA Economic Research Service

Exhibit 1.6.4 - Top Crops' Share of Missouri Total Farm Receipts, 2008 to 2010

	2008	2009	2010	Three-Year Average
Soybeans	21.5%	25.7%	26.5%	24.6%
Corn	20.4%	18.8%	18.4%	19.2%
Cattle and calves	15.2%	16.0%	17.0%	16.1%
Hogs	10.5%	10.0%	9.4%	10.0%
Turkeys	4.5%	4.0%	4.4%	4.3%

Source: USDA Economic Research Service

Exhibit 1.6.5 – Missouri Top Crops' Share of U.S. Total Cash Receipts, Per Crop, 2008 to $2010\,$

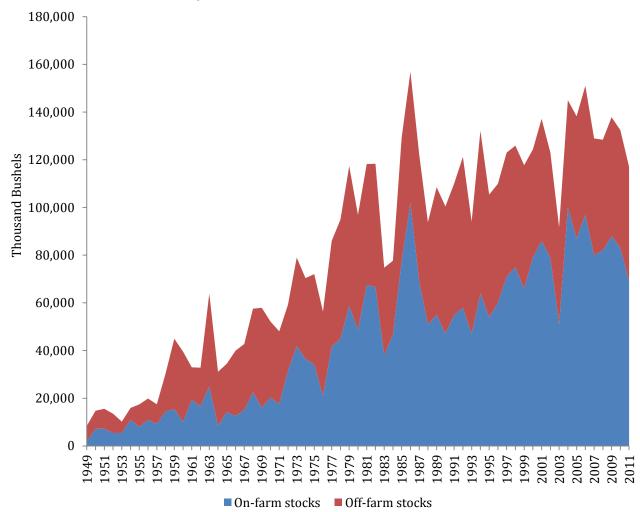
	2008	2009	2010	Three-Year Average
Soybeans	6.8%	5.8%	6.6%	6.4%
Corn	3.5%	3.4%	3.4%	3.4%
Cattle and calves	2.6%	2.8%	2.7%	2.7%
Hogs	5.4%	5.2%	4.4%	5.0%
Turkeys	8.3%	8.5%	8.3%	8.4%

Source: USDA Economic Research Service

Chapter 2: Beyond the Farm

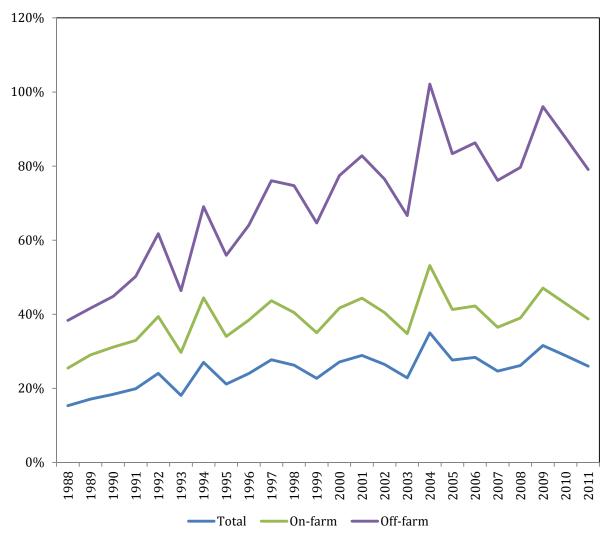
2.1 Storage

Exhibit 2.1.1 - Missouri Soybean Stocks on Dec. 1, 1949, to Dec. 1, 2011



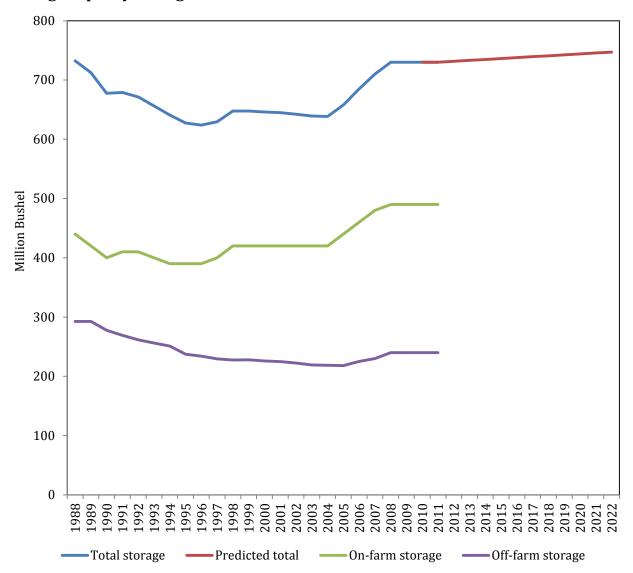
Source: USDA National Agricultural Statistics Service

Exhibit 2.1.2 – Percent of Missouri Soybean Crop Relative to Given Categories of Storage Capacity



Source: USDA National Agricultural Statistics Service

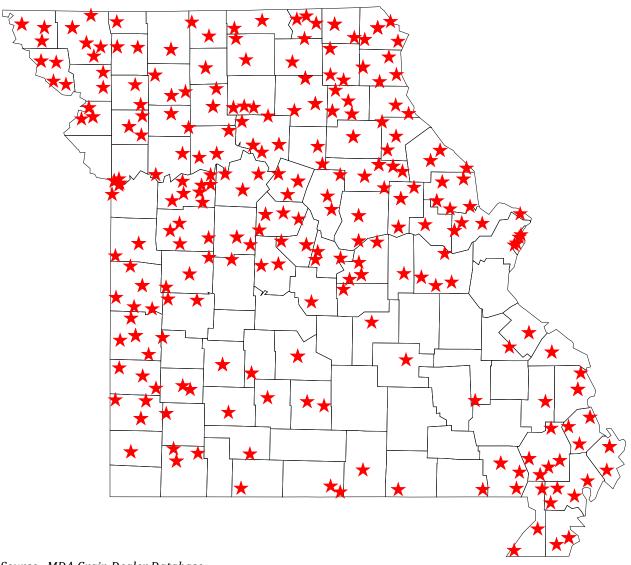
Exhibit 2.1.3 – Missouri On-Farm, Off-Farm and Total Storage Capacity and Predicted Storage Capacity through 2022



Source: USDA National Agricultural Statistics Service and Value Ag, LLC

2.2 Commercial Storage

Exhibit 2.2.1 - Locations of Missouri Grain Elevators



Source: MDA Grain Dealer Database

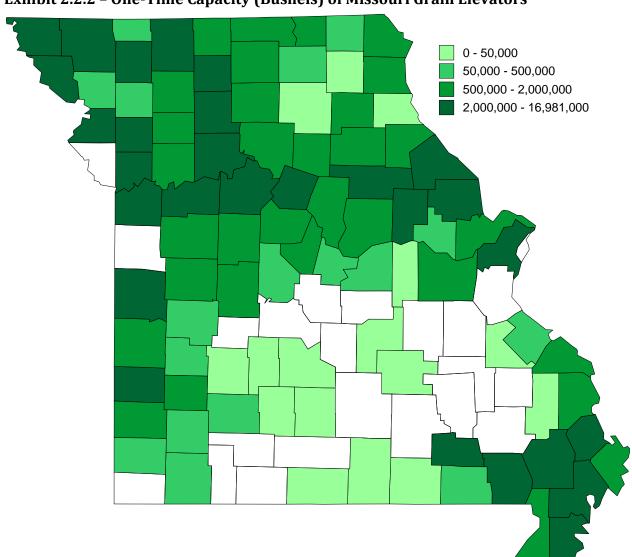


Exhibit 2.2.2 - One-Time Capacity (Bushels) of Missouri Grain Elevators

Source: MDA Grain Dealer Database

* Note: Counties without contributing data are not shaded.

2.3 Transportation

Exhibit 2.3.1 - Assumed Share of Soybean Shipments from Farms by Vehicle Size

	O	Wagon- 500 bu.	O		
	than 500 bu.	or more	Truck	Truck	Semi
Average	9%	16%	4%	7%	65%

Source: Iowa Transportation Study

Exhibit 2.3.2 – Modes of Missouri Commodity Transportation from Elevators, Shipment Value, Millions of Dollars

	2002	Percent of Total	2007	Percent of Total
All Commodities	\$185,392	100.0%	\$225,954	100%
Truck, single mode	\$134,904	72.8%	\$162,243	71.8%
For-hire truck, single mode	\$77,930	42.0%	\$94,645	41.9%
Private truck, single mode	\$56,727	30.6%	\$67,598	29.9%
Rail, single mode	\$19,652	10.6%	\$7,221	3.2%
Shallow draft, single mode	\$1,043	0.6%	\$2,966	1.3%
Cereal Grains	\$2,150	100.0%	\$4,085	100.0%
Truck total	\$980	45.0%	S	S
For-hire truck	\$885	41.0%	\$73	1.8%
Rail	\$756	35.0%	\$1,098	26.0%
Water	\$370	17.0%	\$1,608	39.4%
Shallow draft	\$370	17.0%	\$11,634	39.3%
Animal Feed and Products of Animal Origin	\$1,839	100.0%	\$2,297	100.0%
Truck total	\$1,675	91.0%	\$2,255	98.1%
For-hire truck	\$736	40.0%	\$1,508	65.6%
Private truck			\$747	32.5%
Rail	\$129	7.0%	\$29	1.3%
Other Prepared Foodstuffs and Fats and Oil	\$8,545	100.0%	\$10,087	100.0%
Truck total	\$7,801	91.0%	\$9,301	92.2%
For-hire truck	\$4,211	49.0%	\$5,855	58.0%
Private truck	\$3,590	42.0%	\$3,446	34.2%
Rail	\$472	5.0%	\$552	5.5%

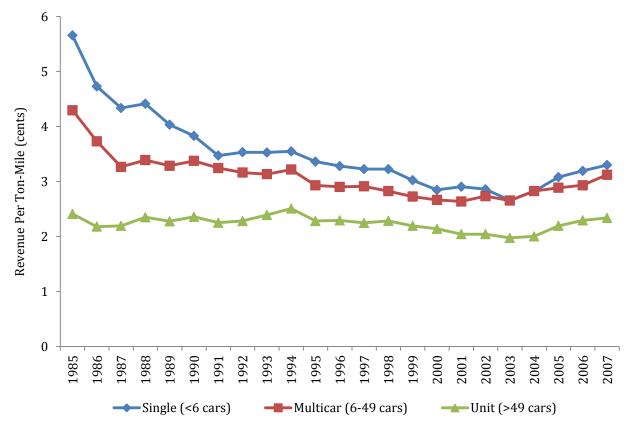
Source: Department of Transportation Commodity Flow Survey

Exhibit 2.3.3 – Modes of Missouri Commodity Transportation from Elevators, Shipment Volume, Thousands of Tons

	2002	Percent of Total	2007	Percent of Total
All Commodities	254,827	100.0%	305,184	100.0%
Truck, single mode	189,434	74.3%	75	42.3%
For-hire truck, single mode	98,150	38.5%	31	30.8%
Private truck, single mode	86,588	34.0%	45	11.5%
Rail, single mode	31,118	12.2%	7	17.6%
Shallow draft, single mode	S	S	10	28.7%
Cereal Grains	22,548	100.0%	29,614	100.0%
Truck total	10,318	45.0%	S	S
For-hire truck	S	S	475	1.6%
Rail	7,473	33.0%	7,961	26.9%
Water	4,311	19.0%	11,634	39.3%
Shallow draft	4,311	19.0%	11,634	39.3%
Animal Feed and Products of Animal Origin	S	S	6,328	100.0%
Truck total	S	S	5,905	93.3%
For-hire truck	S	S	3,278	51.8%
Private truck			2,627	41.5%
Rail	790	5.0%	176	2.8%
Other Prepared Foodstuffs and Fats and Oil	12,232	100.0%	11,449	100.0%
Truck total	10,117	82.0%	9,864	86.2%
For-hire truck	4,589	37.0%	5,587	48.8%
Private truck	S	S	4,277	37.4%
Rail	1,617	13.0%	1,429	12.5%

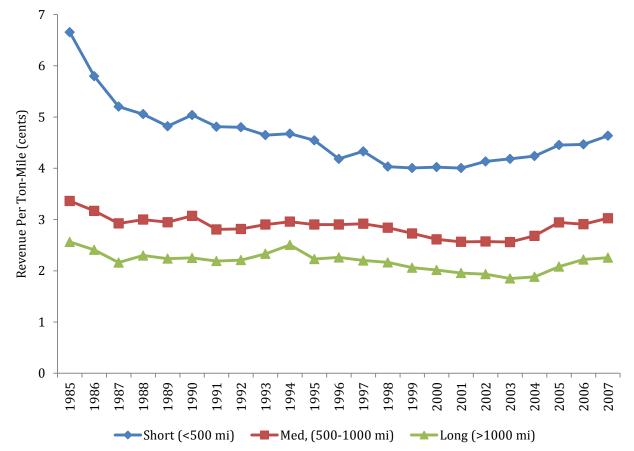
Source: Department of Transportation Commodity Flow Survey

Exhibit 2.3.4 - Grain Rates and Train Type



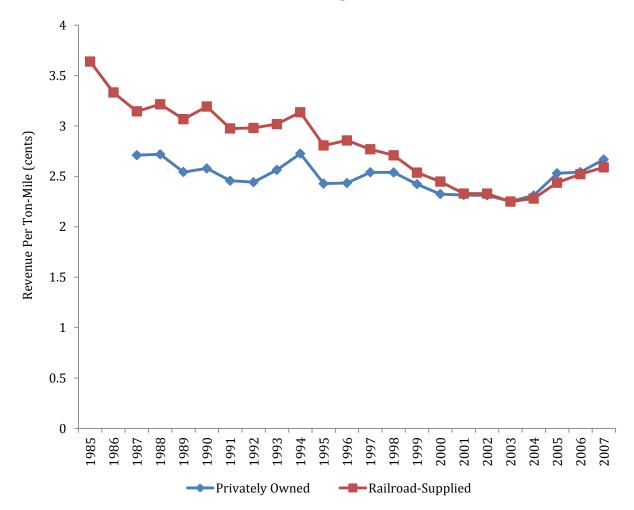
Source: Surface Transportation Board, 2009

Exhibit 2.3.5 - Grain Rates and Shipment Distance



Source: Surface Transportation Board, 2009

Exhibit 2.3.6 - Grain Rates and Car Ownership



\$2,800 \$2,369 \$2,251 \$2,300 **Dollars Per Carload** \$1,624 \$1,615 \$1,608 \$1,613 \$1,609 \$1,559 \$1,800 \$1,281 \$1,078 \$1,039 \$1,028 \$1,030 \$1,300 \$1,008 \$1,004 \$1,017 \$800 1998 1999 2000 2002 2003 2004 2005 2006 2008 2001 2007 → All Other Commodities ---Grains and Oilseeds

Exhibit 2.3.7 - Historical Average Freight Revenue Per Grains and Oilseeds Carload

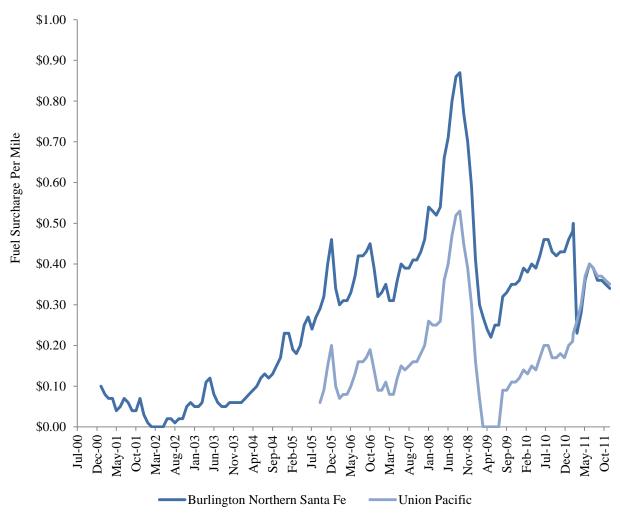
Source: Association of American Railroads, Freight Commodity Statistics

Exhibit 2.3.8 - Freight Revenue for Commodity Rail Shipments

			First Quart	ter 2011			Second Qua	arter 2011			Third Quar	ter 2011	
		Car Loads	Tons	Gross Freight Revenue	Gross Freight Revenue	Car Loads	Tons	Gross Freight Revenue	Gross Freight Revenue	Car Loads	Tons	Gross Freight Revenue	Gross Freight Revenue
	Field crops	199,621	17,592,254	Per Car \$3,249	Per Ton \$36.87	196,581	17,075,484	Per Car \$3,248	Per Ton \$37.39	180,452	15,119,959	Per Car \$3,164	Per Ton \$37.76
Burlington Northern	Oilseeds and nuts	33,603	3,431,988	\$4,355	\$42.64	11,585	1,167,622	\$4,464	\$44.29	14,755	1,378,830	\$4,322	\$46.25
Santa Fe	Soybeans	31,208	3,223,096	\$4,333	\$41.89	9,423	979,223	\$4,404	\$42.38	1,268	112,543	\$4,754	\$53.56
	Field crops	30,721	3,058,736	\$1,729	\$17.37	23,712	2,343,486	\$1,477	\$14.94	25,421	2,510,482	\$1,364	\$13.81
Consolidated U.S.	Oilseeds and nuts	11,134	1,133,745	\$2,032	\$17.37	3,386	342,303	\$1,477	\$12.39	3,536	352,066	\$1,360	\$13.66
Railroad Companies	Soybeans	10,824	1,109,827	\$2,032	\$20.10	3,034	313,991	\$1,263	\$12.33	3,253	330,346	\$1,300	\$13.50
	Field crops	54,034	5,150,331	\$1,535	\$16.38	50,404	4,571,051	\$2,007	\$22.13	40,370	3,927,042	\$2,031	\$20.88
CSX Transportation	Oilseeds and nuts	12,185	1,141,705	\$1,535	\$16.38	9,131	900,741	\$1,698	\$17.21	5,359	476,526	\$1,738	\$19.55
CSX Transportation	Soybeans	11,775	1,107,035	\$1,535	\$16.13	8.802	873,290	\$1,683	\$16.97	5,054	450,728	\$1,723	\$19.32
	Field crops	14,180	1,447,372	\$2,807	\$27.50	18,078	1,834,043	\$2,659	\$26.21	12,611	1,286,543	\$2,067	\$20.26
Kansas City Southern	Oilseeds and nuts	2,602	262,533	\$2,807	\$20.91	1,203	121,992	\$2,817	\$27.78	317	28,908	\$2,007	\$23.51
Ransas City Southern	Soybeans	2,402	244,888	\$2,110	\$20.63	1,010	104,846	\$2,911	\$28.05	167	16,109	\$2,213	\$22.95
Northfolk and Southern	Field crops	53,915	5,399,305	\$2,104	\$20.03	54,274	5,495,602	\$2,232	\$22.04	45,974	4,636,479	\$2,216	\$21.97
Combined Railroad	Oilseeds and nuts	11,326	1,115,737	\$1,667	\$16.93	9,676	958,011	\$1,882	\$19.01	6,678	668,749	\$2,005	\$20.03
Subsidiaries	Soybeans	9,947	1,000,903	\$1,597	\$15.87	8,120	831,475	\$1,800	\$17.58	5,377	553,258	\$1,861	\$18.09
Substatutes	Field crops	39,265	3,856,167	\$1,825	\$18.58	42,659	4,209,957	\$1,728	\$17.51	40,669	3,981,239	\$2,054	\$20.98
Canadian Pacific	Oilseeds and nuts	9,465	918,374	\$1,273	\$13.12	5,857	554,993	\$1,715	\$18.10	5,593	532,890	\$1,672	\$17.55
canadian r deme	Soybeans	7,485	753,061	\$1,154	\$11.47	3,668	369,324	\$1,847	\$18.34	3,703	372,323	\$1,578	\$15.70
	Field crops	99,045	10,154,314	\$3,462	\$33.77	93,587	9,602,513	\$3,670	\$35.77	81,815	8,346,083	\$3,720	\$36.46
Union Pacific Railway	Oilseeds and nuts	18,009	1,841,868	\$3,118	\$30.49	5,649	567,895	\$3,487	\$34.69	3,812	368,096	\$2,744	\$28.42
. ,	Soybeans	16,724	1,737,328	\$3,064	\$29.50	4,434	465,775	\$3,337	\$31.77	2.669	266,791	\$2,052	\$20.53
	00,000	20,724	1,.07,320	\$3,004	ψ <u>2</u> 3.30	., 13-1	.55,775	43,337	Ψ	2,303	200,731	<i>\$2,032</i>	ψ <u>2</u> 3.33
	Field Crops	70,112	6,665,497	\$2,386	\$24.48	68,471	6,447,448	\$2,432	\$25.14	61,045	5,686,832	\$2,374	\$24.59
Averages	Oilseeds and nuts	14,046	1,406,564	\$2,299	\$22.92	6,641	659,080	\$2,474	\$24.78	5,721	543,724	\$2,284	\$24.14
	Soybeans	12,909	1,310,877	\$2,260	\$22.23	5,499	562,561	\$2,464	\$23.90	3,070	300,300	\$2,222	\$23.38

Source: Surface Transportation Board

Exhibit 2.3.9 - Railroad Fuel Surcharges



Source: USDA Agricultural Marketing Service Grain Transportation Datasets

Chapter 3: Soybean Processing and Use

3.1 Soybean Industry

Exhibit 3.1.1 - Missouri and U.S. Soybean Processing Industry, 2007

	Missouri	U.S.	MO as a % of U.S.
Establishments (#)	2	120	1.67%
Number of employees (#)	100 to 249	6,019	~ 2.48%
Annual payroll (\$)	(D)	\$300,388,000	(D)
Value added (\$)	(D)	\$4,988,749,000	(D)
Total cost of materials (\$)	(D)	\$14,686,121,000	(D)
Total value of shipments (\$)	(D)	\$19,283,042,000	(D)

⁽D) = data withheld to avoid disclosing individual firm data

Sources: U.S. Census Bureau, 2002 Economic Census; Minneapolis Fed; and Soybean Meal Information Center

3.2 Whole Soybeans

Exhibit 3.2.1 - Soybeans Crushed or Used at Missouri Oil Mills

	2008
Month and Year	Crushed or Used (Short Tons)
Jan-08	200,206
Feb-08	180,405
Mar-08	192,809
Apr-08	182,706
May-08	196,875
Jun-08	183,092
Jul-08	120,086
Aug-08	107,252
Sep-08	189,374
Oct-08	237,108
Nov-08	254,650
Dec-08	251,902

2009			
Month and Year	Crushed or Used (Short Tons)		
Jan-09	243,789		
Feb-09	219,825		
Mar-09	226,749		
Apr-09	248,769		
May-09	232,545		
Jun-09	227,070		
Jul-09	220,314		
Aug-09	194,936		
Sep-09	93,687		
Oct-09	274,044		
Nov-09	350,237		
Dec-09	365,568		

	2010
Month and Year	Crushed or Used (Short Tons)
Jan-10	349,956
Feb-10	313,610
Mar-10	293,123
Apr-10	226,887
May-10	229,012
Jun-10	173,527
Jul-10	237,014
Aug-10	(D)
Sep-10	146,992
Oct-10	301,780
Nov-10	296,154
Dec-10	291,527

2011				
Month Crushed or Used and Year (Short Tons)				
Jan-11	284,691			
Feb-11	243,203			
Mar-11	262,242			
Apr-11	212,921			
May-11	196,782			
Jun-11	217,096			
Jul-11	(D)			

(D) = data withheld to avoid disclosing individual firm data

Source: U.S. Census Bureau

Exhibit 3.2.2 – 2008-to-2010 Average Crushed or Used Soybeans at Missouri Oil Mills

Month	Crushed or Used (Short Tons)
January	264,650
February	237,947
March	237,560
April	219,454
May	219,477
June	194,563
July	192,471
August*	151,094
September	143,351
October	270,977
November	300,347
December	302,999

Source: U.S. Census Bureau

^{*}August computed as a 2008-to-2009 average because data weren't disclosed in August 2010.

Exhibit 3.2.3 -St. Louis USDA AMS Soybean Prices



Exhibit 3.2.4 -St. Louis CHS Soybean Prices

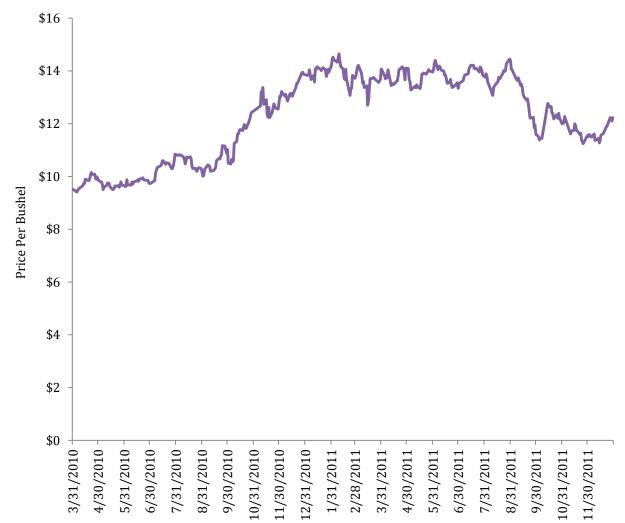


Exhibit 3.2.5 -St. Louis ADM Soybean Prices

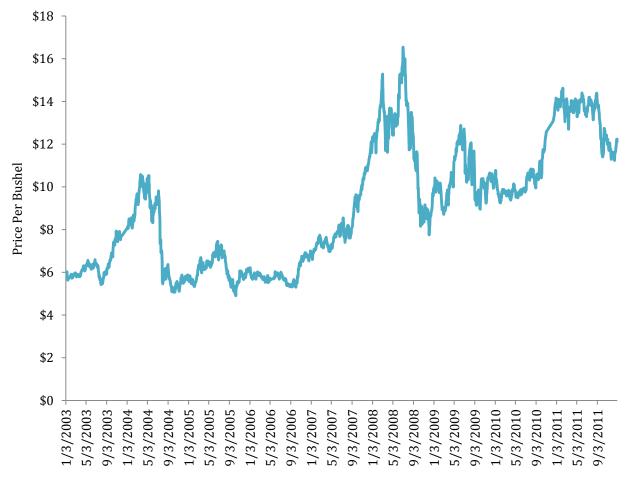
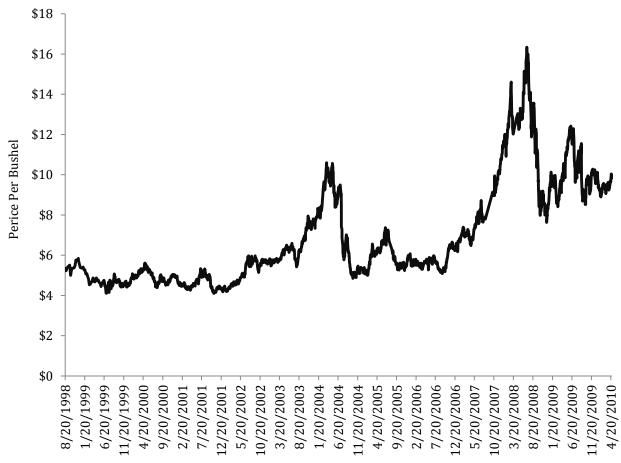


Exhibit 3.2.6 -Kansas City USDA AMS Soybean Prices



\$16 | \$14 | \$12 | \$10 | \$88 | \$8 | \$6 | \$4 | \$2 | \$2 | \$2 | \$

11/2/2010 - 12/2/2010 -

9/2/2010

10/2/2010

8/2/2010

1/2/2011 - 2/2/2011 - 3/2/2011 - 4/2/2011 - 5/2/2011 - 5/2/2011 - 7/2/2011 - 7/2/2011 - 8/2/2011 - 8/2/2011 - 1

Exhibit 3.2.7 -Kansas City Cargill, Chouteau Location, Soybean Prices

Source: CashGrainBids.com

3/2/2010 -4/2/2010 -5/2/2010 -6/2/2010 -7/2/2010 -

2/2/2010

1/2/2010

\$0

Exhibit 3.2.8 -Kansas City Cargill, Katy Location, Soybean Prices

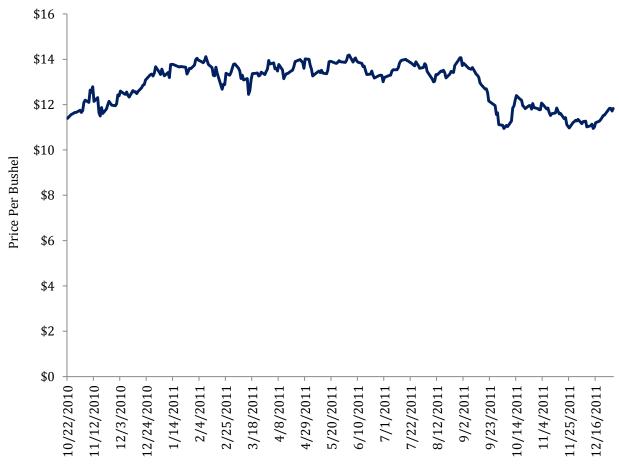
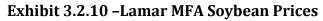
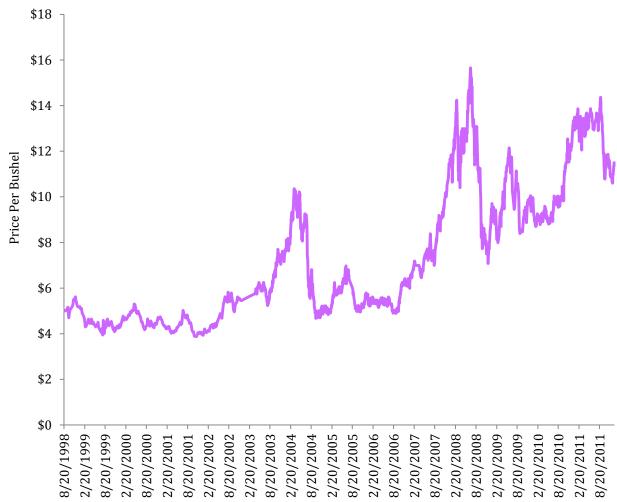
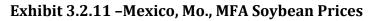


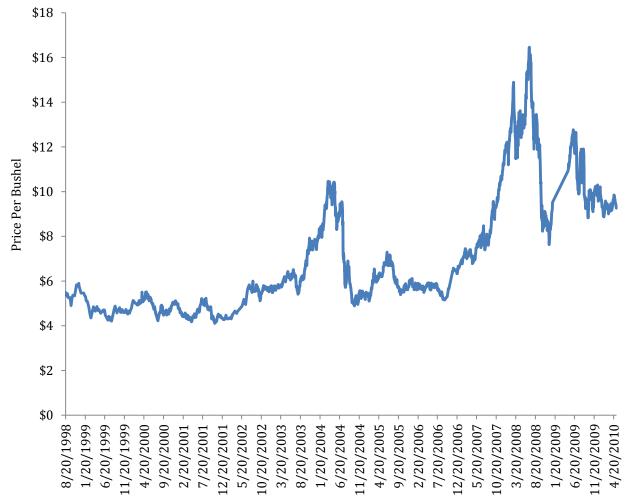
Exhibit 3.2.9 –Kansas City Cargill, GOS Location, Soybean Prices $$^{16}\ \ \]$

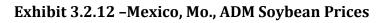


















3.3 Soybean Meal

Exhibit 3.3.1 - Missouri Soybean Meal Consumption by Animal Agriculture

Species	Projected Consumption (tons)
Beef calves*	169,200
Beef on feed**	29,700
Dairy cattle***	69,750
Market hogs^	204,355
Feeder pigs^^	77,914
Broilers/layers +	704,773
Turkeys ++	236,700
Total	1,492,391

Equivalent soybean bushels	66,328,495
Typical Missouri production (2008 to 2010 average bushels)	210,698,333
Share of typical Missouri production	31%

^{*}Based on Jan. 1, 2012, calves inventory.

Source: USDA National Agricultural Statistics Service, Iowa State University, Indiana Soybean Alliance and Value Ag, LLC

^{**} Based on Jan. 1, 2012, on-feed cattle inventory.

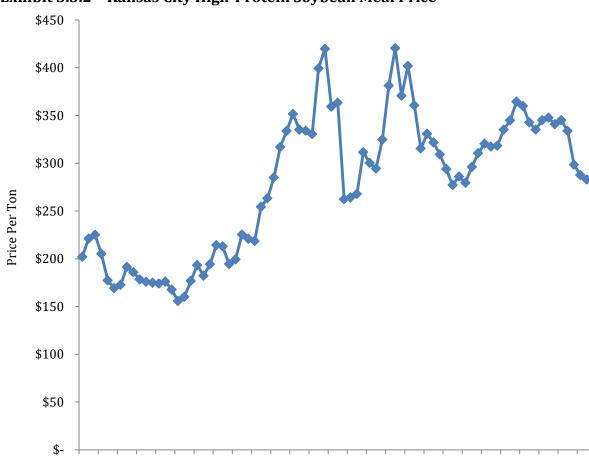
^{***} Based on Jan. 1, 2012, milk cows that have calved.

[^] Based on 2011 pig crop; 45% assumed to be finished hogs.

^{^^} Based on 2011 pig crop; 55% assumed to be feeder pigs.

⁺ Based on 2011 total young chickens slaughtered.

⁺⁺ Based on 2011 number of head produced.

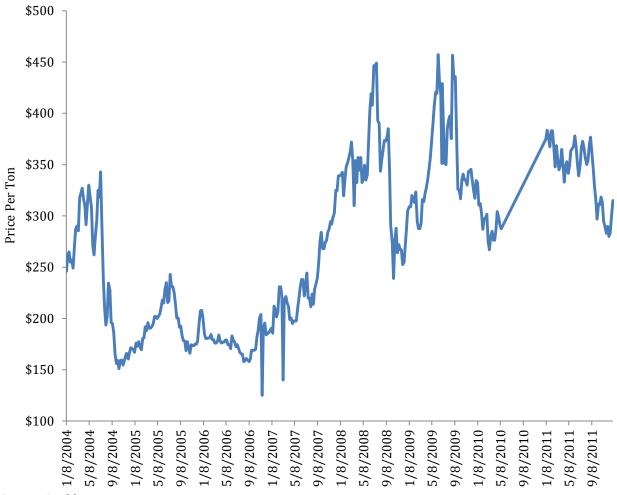


Aug-05 |
Nov-05 |
Feb-06 |
Aug-06 |
Nov-06 |
Nov-06 |
Reb-07 |
Aug-07 |
Nov-08 |
Nov-08 |
Nov-08 |
Nov-09 |
Reb-09 |
Aug-09 |
Aug-09 |
Nov-09 |
Reb-10 |
Nov-10 |
Nov-10 |
Nov-10 |
Nov-10 |
Nov-10 |
Nov-11 |
Nov-11 |

Exhibit 3.3.2 - Kansas City High-Protein Soybean Meal Price

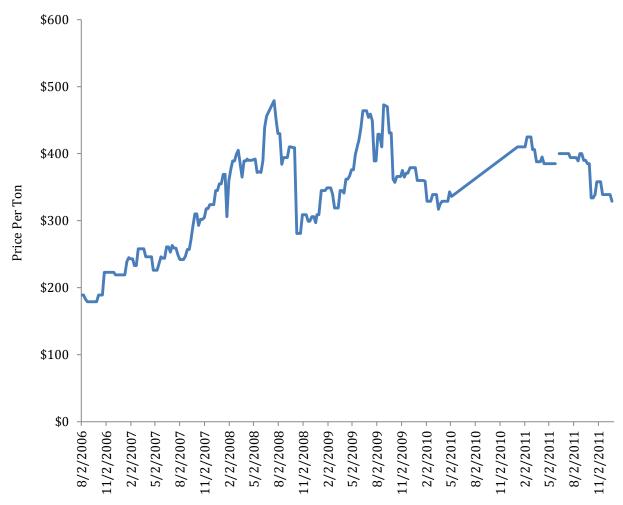
Source: The Jacobsen

Exhibit 3.3.3 - Price of 48% Soybean Meal, Mexico, Mo., ADM



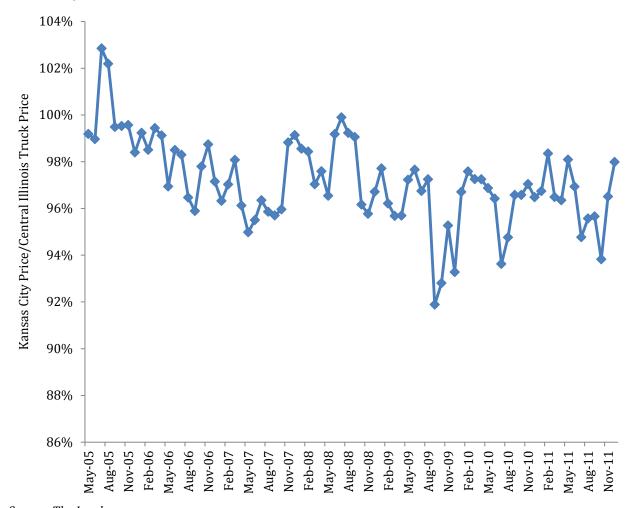
Source: AgEbb

Exhibit 3.3.4 - Price of 48% Soybean Meal, Versailles, NutraAg, LLC



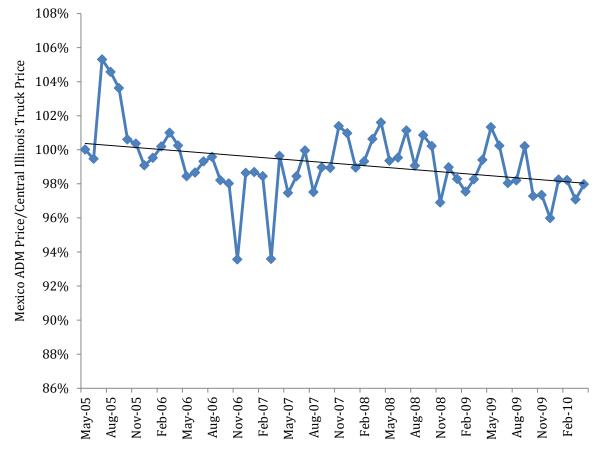
Source: AgEbb

Exhibit 3.3.5 – Kansas City Soybean Meal Price as a Percentage of Central Illinois Truck Soybean Meal Price



Source: The Jacobsen

Exhibit 3.3.6 – Mexico, Mo., ADM Soybean Meal Price as a Percentage of Central Illinois Truck Soybean Meal Price



Source: AgEbb and The Jacobsen

Exhibit 3.3.7 – Kansas City Soybean Meal Price as a Percentage of Central Illinois DDG Price

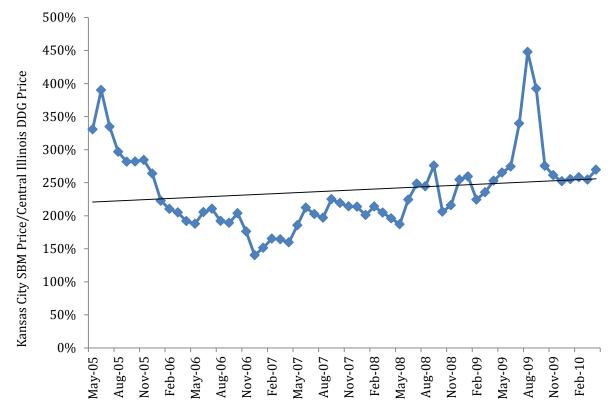
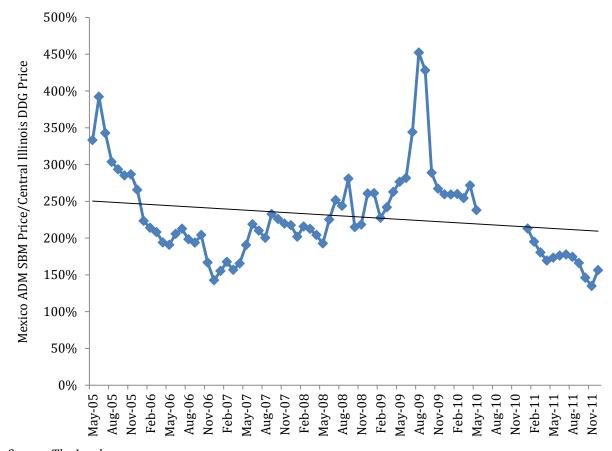


Exhibit 3.3.8 – Mexico, Mo., ADM Soybean Meal Price as a Percentage of Central Illinois DDG Price



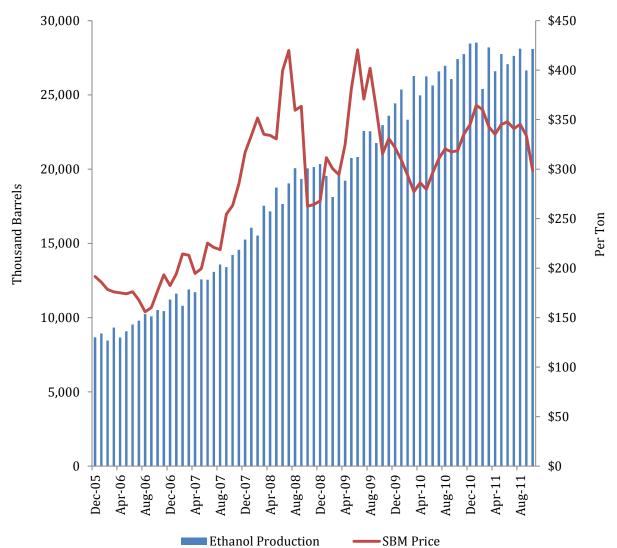


Exhibit 3.3.9 -Kansas City Soybean Meal Price and U.S. Ethanol Production

Source: The Jacobsen and Renewable Fuels Association

400,000 \$450 \$400 350,000 \$350 300,000 \$300 Million Pounds 250,000 \$250 200,000 \$200 150,000 \$150 100,000 \$100 50,000 \$50 0 Dec-08 ⁻ Dec-06 Apr-08 Aug-08 Apr-07 Dec-07 Apr-09 Aug-09 Dec-09 Aug-07

Kansas City SBM Price

Exhibit 3.3.10 -Kansas City Soybean Meal Price and U.S. Methyl Ester Disappearance

Source: The Jacobsen and USDA Economic Research Service

Methyl Ester Disappearance

Exhibit 3.3.11 -Cake and Meal Production at Missouri Oil Mills

2008		
Month and Year	Cake or Meal (Short Tons)	
Jan-08	161,329	
Feb-08	145,946	
Mar-08	153,604	
Apr-08	145,920	
May-08	159,184	
Jun-08	147,105	
Jul-08	98,605	
Aug-08	86,236	
Sep-08	150,820	
Oct-08	185,995	
Nov-08	202,897	
Dec-08	199,898	

2009		
Month and Year	Cake or Meal (Short Tons)	
Jan-09	190,765	
Feb-09	173,875	
Mar-09	179,191	
Apr-09	196,036	
May-09	183,684	
Jun-09	180,109	
Jul-09	175,083	
Aug-09	155,586	
Sep-09	75,021	
Oct-09	215,632	
Nov-09	276,568	
Dec-09	290,682	

2010		
Month and Year	Cake or Meal (Short Tons)	
Jan-10	278,162	
Feb-10	251,724	
Mar-10	234,646	
Apr-10	180,913	
May-10	183,854	
Jun-10	137,598	
Jul-10	188,548	
Aug-10	(D)	
Sep-10	117,139	
Oct-10	240,396	
Nov-10	240,408	
Dec-10	236,157	

2011	
Month and Year	Cake or Meal (Short Tons)
Jan-11	230,048
Feb-11	196,801
Mar-11	211,963
Apr-11	172,138
May-11	159,256
Jun-11	175,125
Jul-11	(D)

Source: U.S. Census

^{*} Includes millfeed and lecithin

Exhibit 3.3.12 -2008-to-2010 Average Cake or Meal Production at Missouri Oil Mills

Month	Cake or Meal (Short Tons)
January	210,085
February	190,515
March	189,147
April	174,290
May	175,574
June	154,937
July	154,079
August*	120,911
September	114,327
October	214,008
November	239,958
December	242,246

Source: U.S. Census Bureau

^{*}August computed as a 2008-to-2009 average because data weren't disclosed in August 2010.

3.4 Soybean Oil

Exhibit 3.4.1 - Crude Soybean Oil Production at Missouri Oil Mills

	2008
Month	Crude Oil
and Year	(Thousand Pounds)
Jan-08	75,385
Feb-08	65,128
Mar-08	73,034
Apr-08	68,615
May-08	74,283
Jun-08	68,078
Jul-08	45,968
Aug-08	40,890
Sep-08	72,798
Oct-08	89,170
Nov-08	92,801
Dec-08	90,960

	2009
Month	Crude Oil
and Year	(Thousand Pounds)
Jan-09	88,201
Feb-09	80,582
Mar-09	84,359
Apr-09	93,240
May-09	84,847
Jun-09	84,085
Jul-09	83,193
Aug-09	73,466
Sep-09	34,776
Oct-09	99,557
Nov-09	126,205
Dec-09	128,401

2010	
	2010
Month	Crude Oil
and Year	(Thousand Pounds)
Jan-10	126,413
Feb-10	111,717
Mar-10	105,778
Apr-10	83,332
May-10	84,885
Jun-10	63,403
Jul-10	86,245
Aug-10	(D)
Sep-10	53,074
Oct-10	115,385
Nov-10	110,796
Dec-10	110,694

2011	
Month and Year	Crude Oil (Thousand Pounds)
Jan-11	108,637
Feb-11	92,930
Mar-11	100,304
Apr-11	82,458
May-11	75,293
Jun-11	82,705
Jul-11	(D)

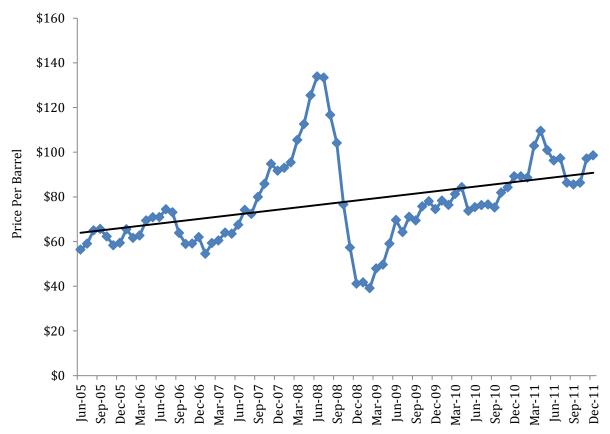
Source: U.S. Census

Exhibit 3.4.2 -2008-to-2010 Average Crude Soybean Oil Production in Missouri

Month	Crude Oil (Thousand Pounds)
January	96,666
February	85,809
March	87,724
April	81,729
May	81,338
June	71,855
July	71,802
August*	57,178
September	53,549
October	101,371
November	109,934
December	110,018

Source: U.S. Census Bureau

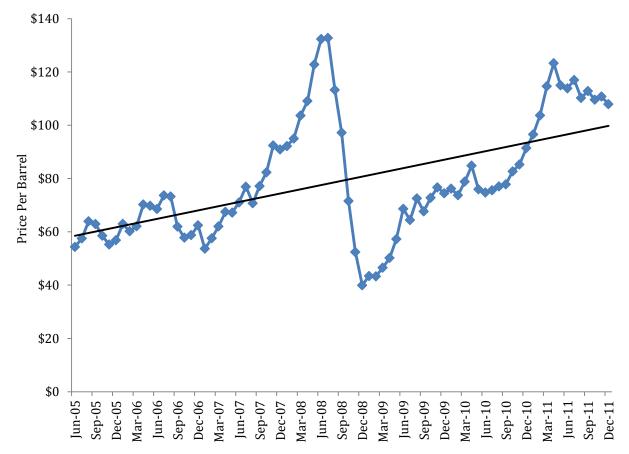
Exhibit 3.4.3 -Crude Oil WTI Spot Price, FOB, at Cushing, Okla.



Source: U.S. Energy Information Administration

^{*} August computed as a 2008-to-2009 average because data weren't disclosed in August 2010.

Exhibit 3.4.4 -Crude Oil Spot Price, FOB, at Europe Brent



Source: U.S. Energy Information Administration

Exhibit 3.4.5 -Central Illinois Crude Soybean Oil and RBD Soybean Oil Price

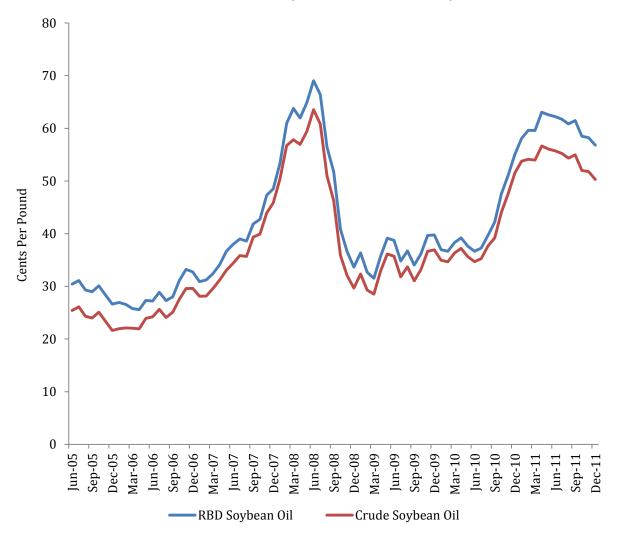


Exhibit 3.4.6 -Spread between Central Illinois Crude Soybean Oil Price and Central Illinois RBD Soybean Oil Price

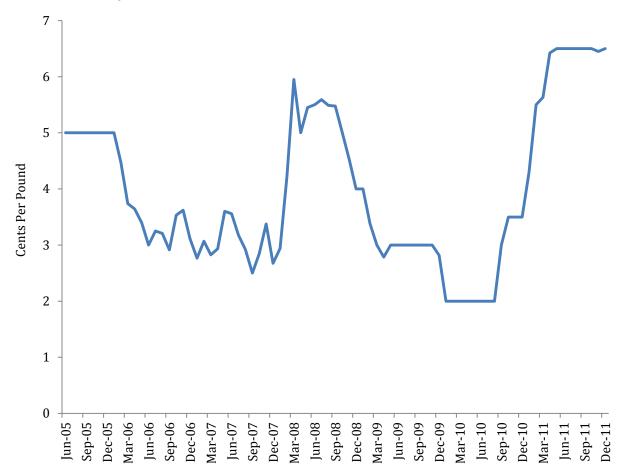


Exhibit 3.4.7 -Lower Midwest B100 Biodiesel Price to Central Illinois Crude Soybean Oil Price

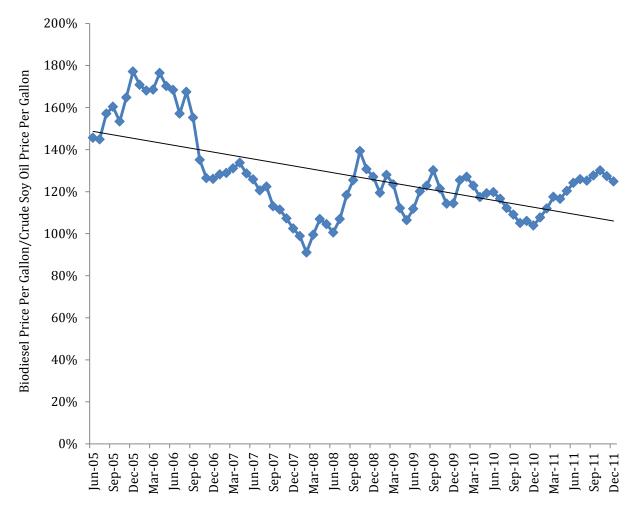


Exhibit 3.4.8 -Yellow Grease (Missouri River) as a Percent of Central Illinois Crude Soybean Oil Price

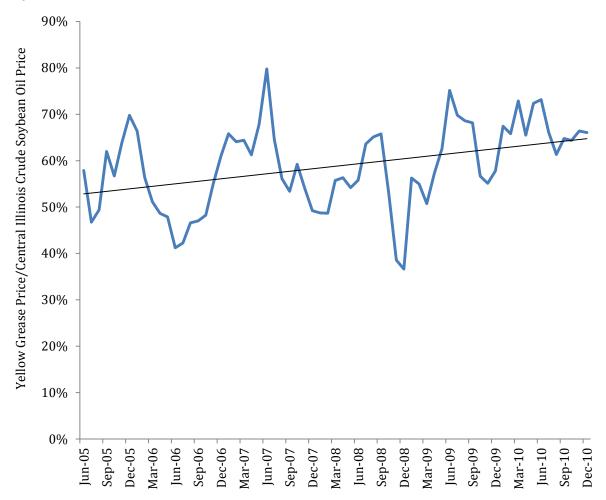
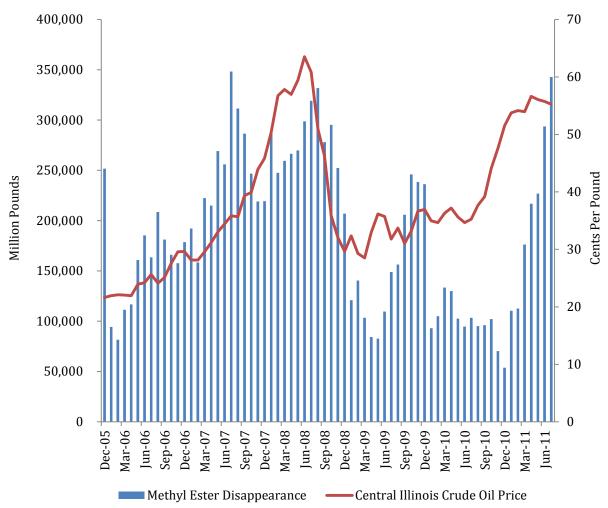


Exhibit 3.4.9 – Central Illinois Crude Soybean Oil Price and U.S. Methyl Ester Disappearance $\,$



Source: The Jacobsen and USDA Economic Research Service

3.5 Glycerol

Exhibit 3.5.1 -Crude and Refined Glycerol Prices

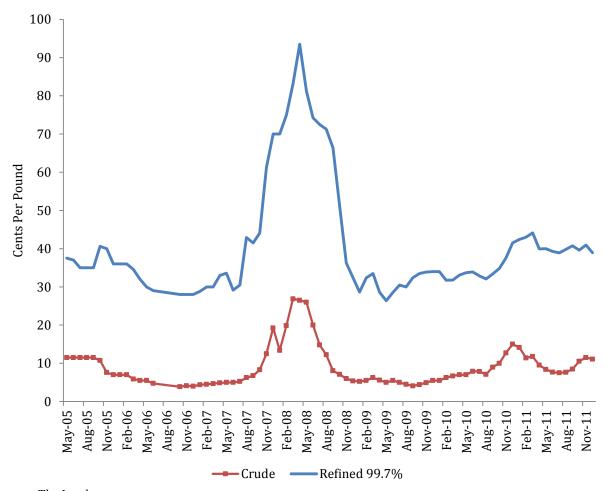


Exhibit 3.5.2 - Spread between Crude and Refined Glycerol Prices

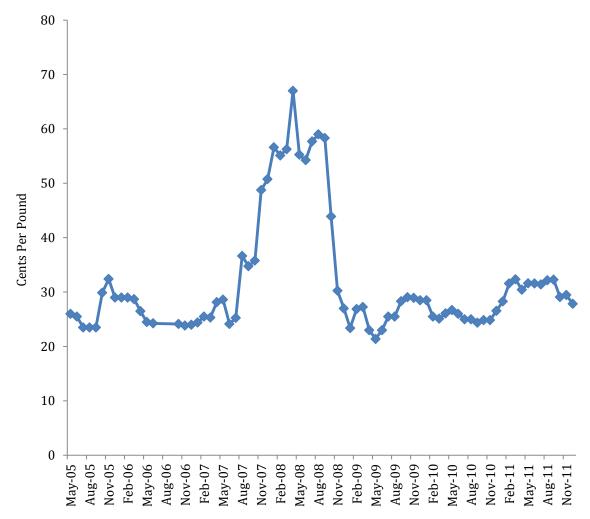
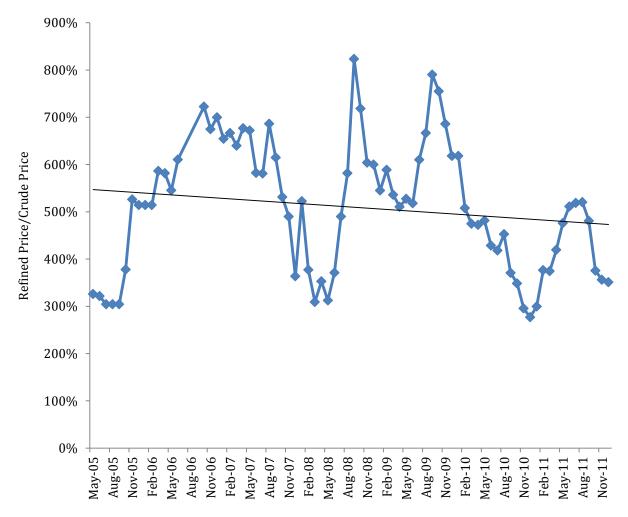


Exhibit 3.5.3 -Crude Glycerol Price as a Percentage of Refined Glycerol



400,000 30 350,000 25 300,000 20 250,000 Cents Per Pound Million Pounds 15 200,000 150,000 10 100,000 50,000 0 Dec-09 ⁻ Mar-10 ⁻ Dec-07 Mar-08 Mar-09 _ 60-un[Sep-09 Jun-10 ⁻ Sep-07

-Glycerol (Crude) Price

Exhibit 3.5.4 -Glycerol Price and U.S. Methyl Ester Disappearance

Source: The Jacobsen and USDA Economic Research Service

Methyl Ester Disappearance

3.6 Soybean Hulls

Exhibit 3.6.1 - Estimated Soybean Hulls Produced at Missouri Mills

2008		
Month and Year	Soybean Hulls (Tons)	
Jan-08	8,066	
Feb-08	7,297	
Mar-08	7,680	
Apr-08	7,296	
May-08	7,959	
Jun-08	7,355	
Jul-08	4,930	
Aug-08	4,312	
Sep-08	7,541	
Oct-08	9,300	
Nov-08	10,145	
Dec-08	9,995	

2009	
Month and Year	Soybean Hulls (Tons)
Jan-09	9,538
Feb-09	8,694
Mar-09	8,960
Apr-09	9,802
May-09	9,184
Jun-09	9,005
Jul-09	8,754
Aug-09	7,779
Sep-09	3,751
Oct-09	10,782
Nov-09	13,828
Dec-09	14,534

2010		
Month and Year	Soybean Hulls (Tons)	
Jan-10	13,908	
Feb-10	12,586	
Mar-10	11,732	
Apr-10	9,046	
May-10	9,193	
Jun-10	6,880	
Jul-10	9,427	
Aug-10	(D)	
Sep-10	5,857	
Oct-10	12,020	
Nov-10	12,020	
Dec-10	11,808	

2011		
Month and Year	Soybean Hulls (Tons)	
Jan-11	11,502	
Feb-11	9,840	
Mar-11	10,598	
Apr-11	8,607	
May-11	7,963	
Jun-11	8,756	
Jul-11	(D)	

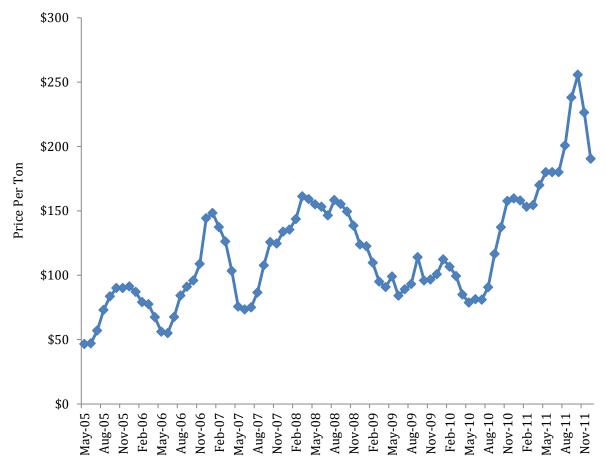
Source: Estimated using U.S. Census Bureau data

Exhibit 3.6.2 - 2008-to-2010 Average Estimated Soybean Hulls Produced in Missouri

Month	Soybean Hulls (Tons)
January	2,432
February	2,560
March	2,432
April	2,653
May	2,452
June	1,643
July	1,437
August*	3,771
September	3,100
October	3,382
November	3,332
December	3,179

Source: Estimated using U.S. Census Bureau data

Exhibit 3.6.3 - Kansas City Soybean Hull Price



^{*} August computed as a 2008-to-2009 average because data weren't disclosed in August 2010.

140% - 120% - 10

May-08 Aug-08

Feb-08

May-09 Aug-09

Nov-09 -Feb-10 - May-10 Aug-10 Nov-10

Exhibit 3.6.4 - Kansas City Hull Price Relative to Central Illinois Hull Price

Source: The Jacobsen

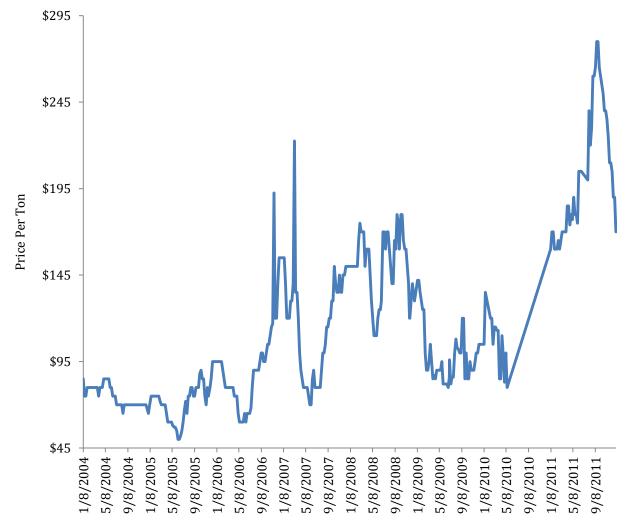
0%

Nov-05 Feb-06 May-06 Aug-06

Nov-06 Feb-07

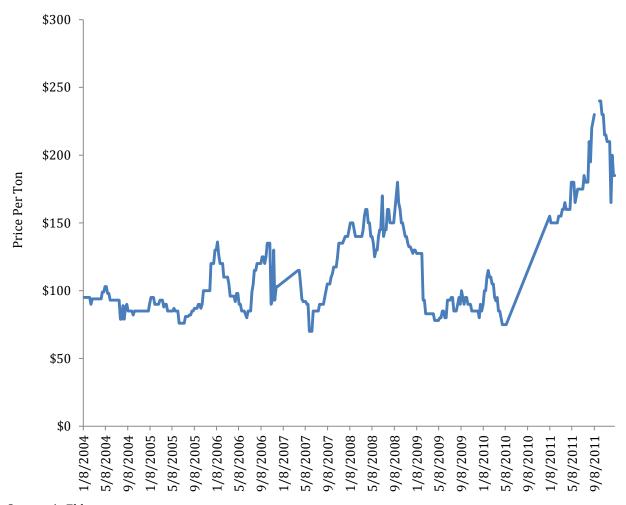
May-07 Aug-07 Nov-07

Exhibit 3.6.5 - Soy Hull Price, Mexico, Mo., ADM



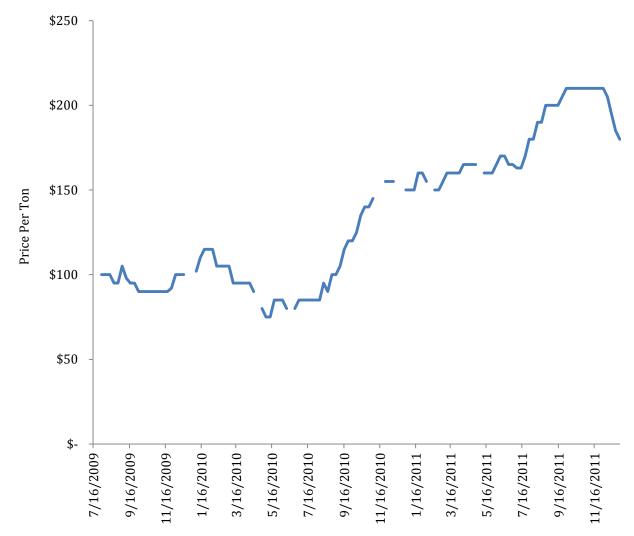
Source: AgEbb

Exhibit 3.6.6 -Pelleted Soy Hull Prices, North Kansas City, CyberAg



Source: AgEbb

Exhibit 3.6.7 - Pelleted Soy Hull Prices, Cairo, Ill., Bunge



Source: AgEbb

400,000 \$200 \$180 350,000 \$160 300,000 \$140 250,000 \$120 Million Pounds \$100 200,000 \$80 150,000 \$60 100,000 \$40 50,000 \$20 0 Jan-07 Apr-07 Jan-08 Apr-08 Oct-08 Jan-09 Apr-09 0ct-09 Apr-10 0ct-07]ul-08 . 60-ln(Jan-10 Jul-10 Jul-07

—Kansas City Soy Hull Price

Exhibit 3.6.8 - Kansas City Soybean Hull Price and U.S. Methyl Ester Disappearance

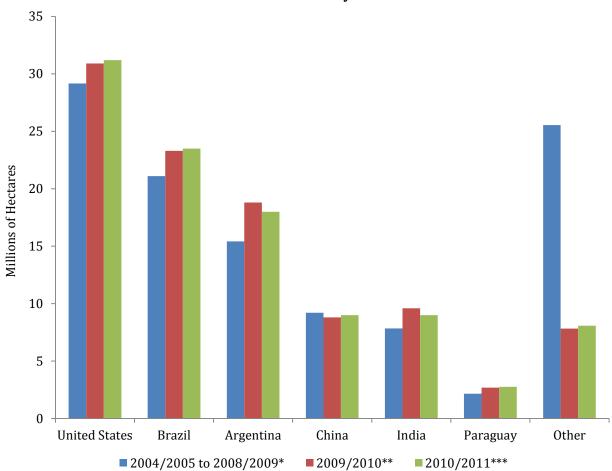
Source: The Jacobsen and USDA Economic Research Service

Methyl Ester Disappearance

Chapter 4: International Soybean Production and Trade

4.1 Worldwide Soybean Production

Exhibit 4.1.1 - Worldwide Area Dedicated to Soybean Production



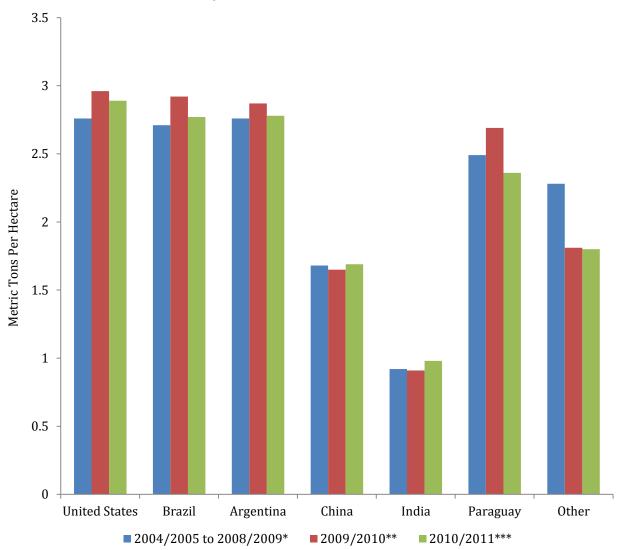
^{*}Annual average

Source: Soyatech and USDA Foreign Agricultural Service

^{**} Preliminary

^{***} Forecast



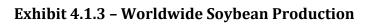


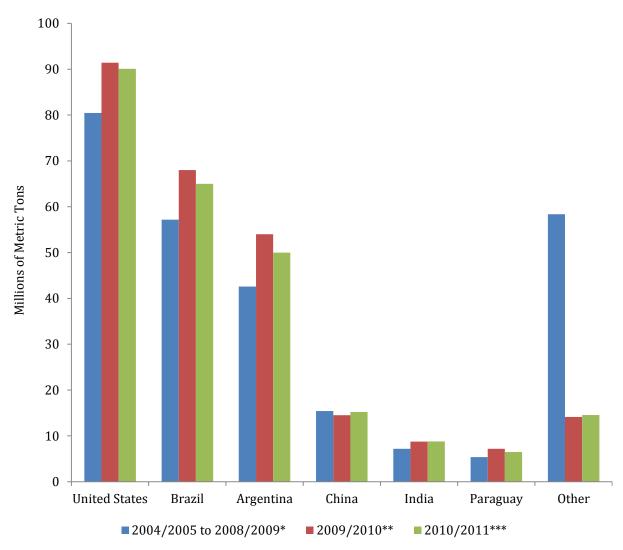
^{*} Annual average

Source: Soyatech and USDA Foreign Agricultural Service

^{**} Preliminary

^{***} Forecast





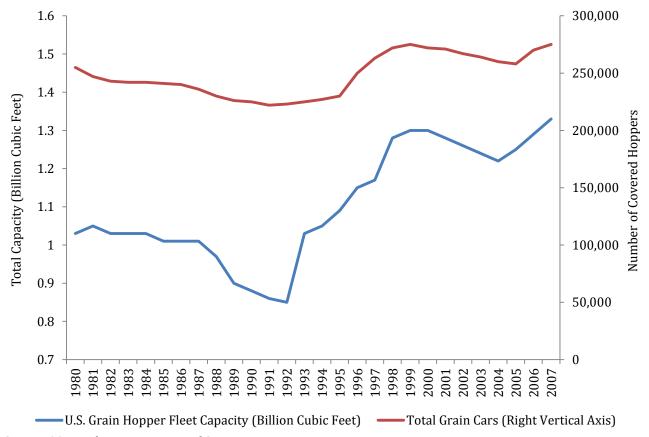
^{*} Annual average ** Preliminary

Source: Soyatech and USDA Foreign Agricultural Service

^{***} Forecast

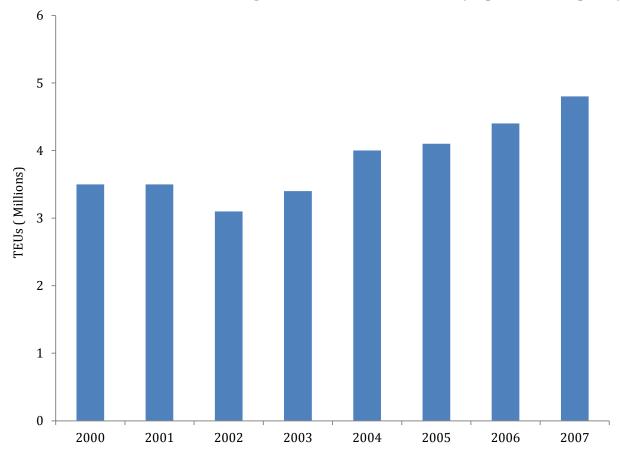
4.2 Agricultural Trade

Exhibit 4.2.1 - U.S. Grain Hopper Fleet Capacity (Billion Cubic Feet), 1980 to 2007



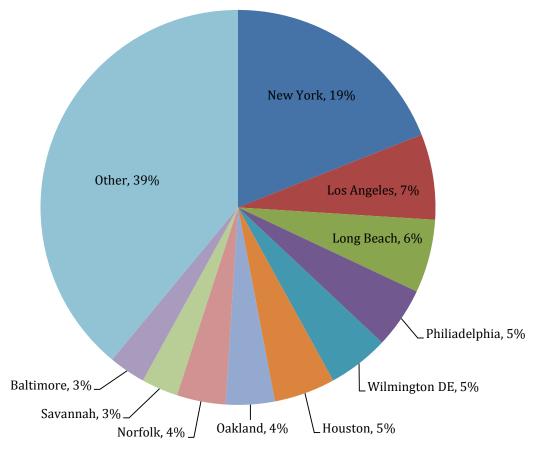
Source: AAR, Rail Transportation of Grain

Exhibit 4.2.2 - Total Waterborne Agricultural Container Trade (Imports and Exports)



Source: Port Import Export Reporting Service (PIERS) * TEU is a 20-foot equivalent container.

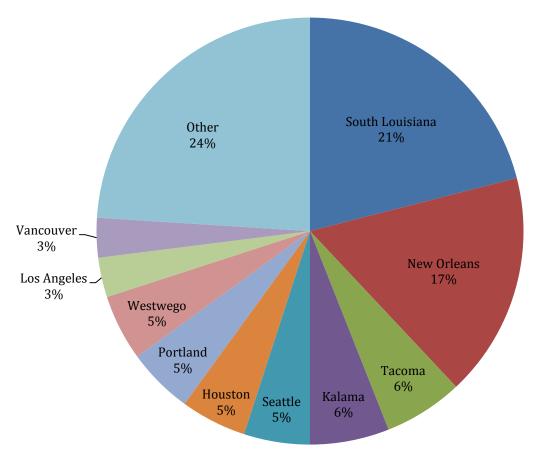




Source: Port Import Export Reporting Service (PIERS)

^{*} Note: Chart depicts all waterborne agricultural imports, bulk and container combined, based on tonnage moved.

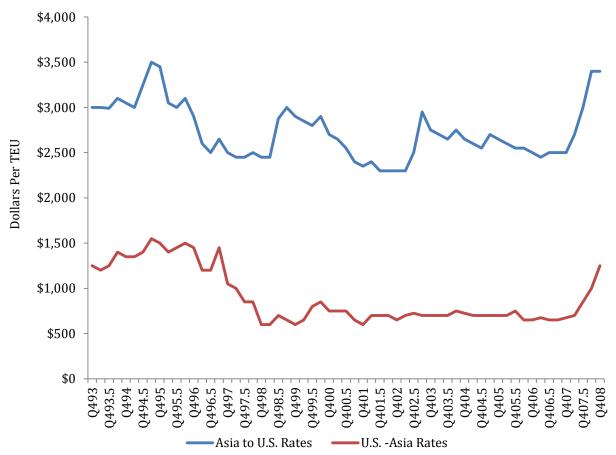
Exhibit 4.2.4 - Top 10 U.S. Ports Moving Agricultural Exports, 2007



Source: Port Import Export Reporting Service (PIERS)

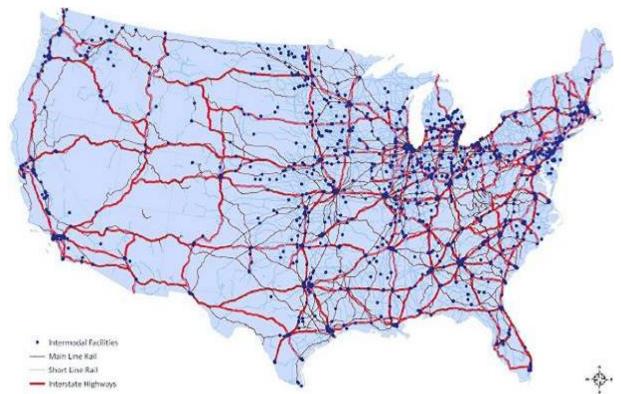
^{*} Note: Chart depicts all waterborne agricultural imports, bulk and container combined, based on tonnage moved.

Exhibit 4.2.5 - Container Rates for Trans-Pacific Trade Lanes



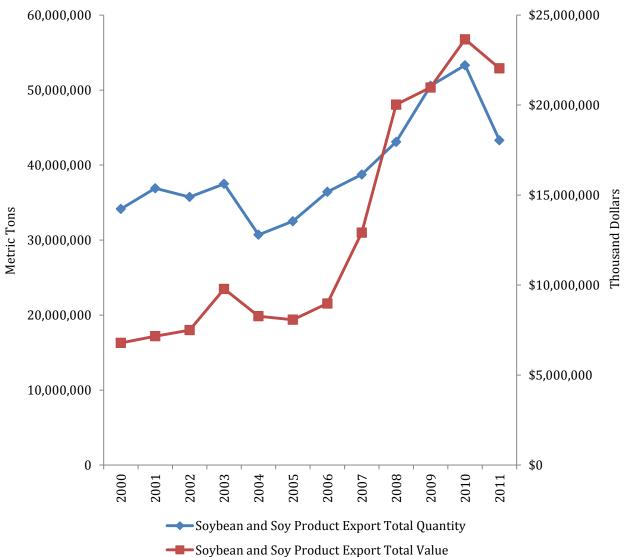
Source: Containerization International

Exhibit 4.2.6 - U.S. Intermodal Facilities, 2002



Source: U.S. Bureau of Transportation Statistics

 ${\bf Exhibit~4.2.7-Total~Value~and~Volume~of~U.S.~Soybean~and~Soybean~Product~Exports}$



Source: USDA Foreign Agricultural Service Global Agricultural Trade System

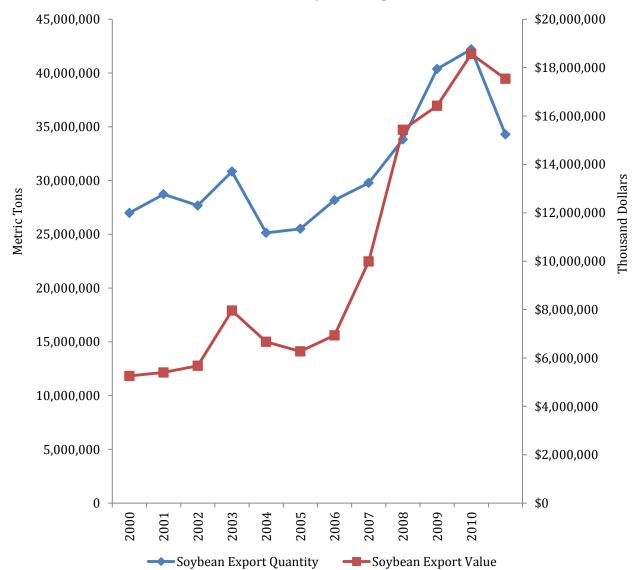


Exhibit 4.2.8 - Value and Volume of U.S. Soybean Exports

Source: USDA Foreign Agricultural Service Global Agricultural Trade System

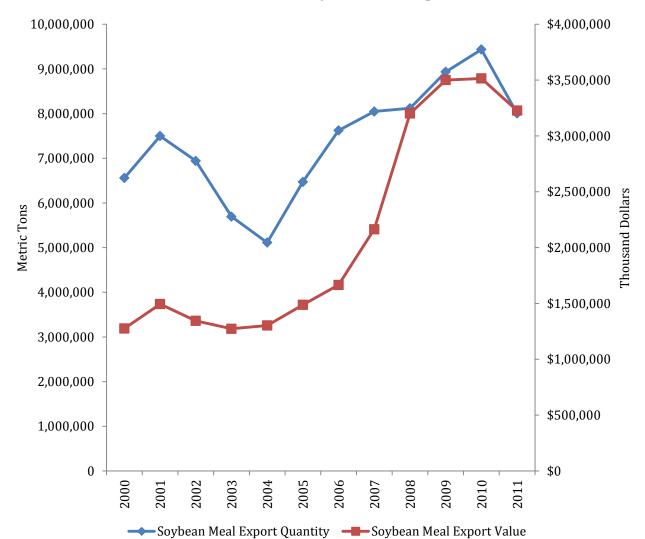


Exhibit 4.2.9 - Value and Volume of U.S. Soybean Meal Exports

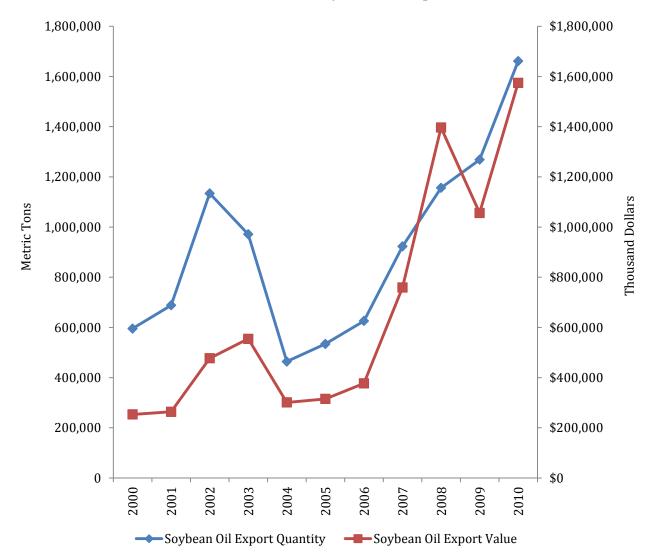
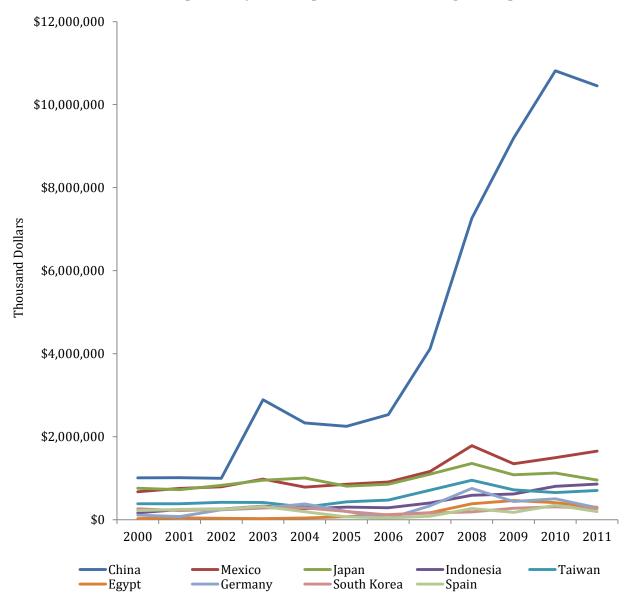


Exhibit 4.2.10 - Value and Volume of U.S. Soybean Oil Exports

\$12,000,000 70% 60% \$10,000,000 50% Share of Total Soybean Export Value \$8,000,000 Thousand Dollars 40% \$6,000,000 30% 20% \$4,000,000 10% \$2,000,000 0% \$0 -10% Mexico Thailand China Japan Taiwan Egypt Spain Indonesia South Korea Germany ■ Value Share

Exhibit 4.2.11 - Top 10 U.S. Soybean Export Markets by Value, 2011

Exhibit 4.2.12 - 2011 Top U.S. Soybean Export Markets' Change in Export Value



\$700,000 30% \$600,000 25% Share of Total Soybean Meal Export Value \$500,000 20% **Thousand Dollars** \$400,000 15% \$300,000 10% \$200,000 5% \$100,000 \$0 0% Dominican Republic Canada Ecuador Philippines Venezuela South Korea Morocco Guatemala -Share

Exhibit 4.2.13 - Top 10 U.S. Soybean Meal Export Markets by Value, 2011

Exhibit 4.2.14 - 2011 Top U.S. Soybean Meal Export Markets' Change in Export Value

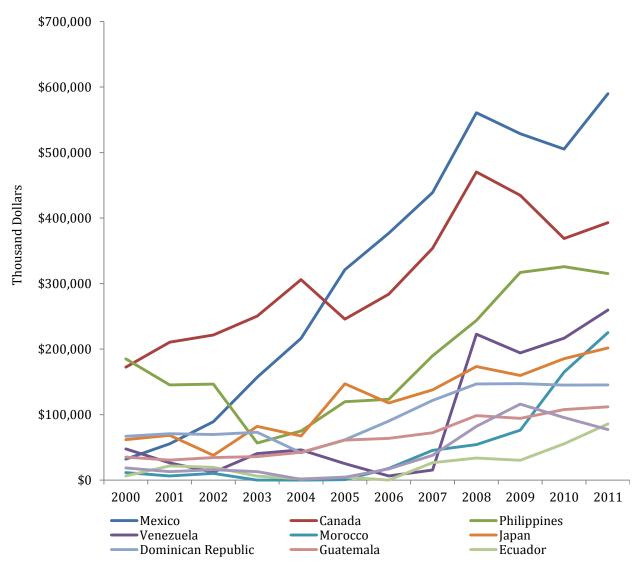


Exhibit 4.2.15 - Top 10 U.S. Soybean Oil Export Markets by Value, 2011

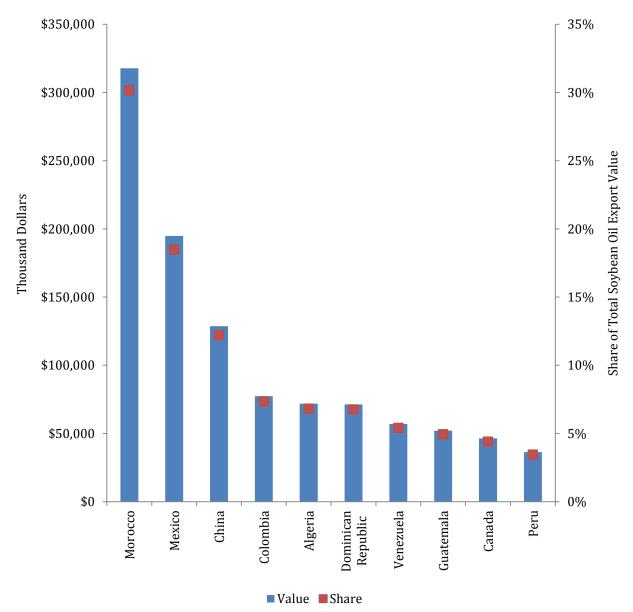
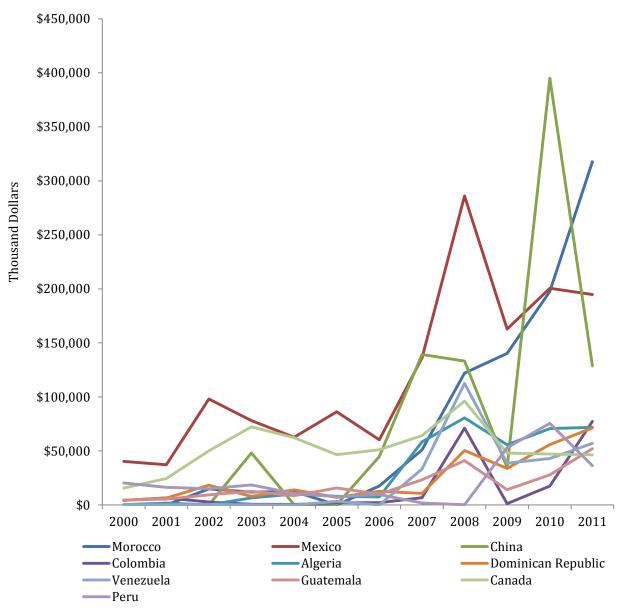


Exhibit 4.2.16 - 2011 Top U.S. Soybean Oil Export Markets' Change in Export Value



Source: USDA For eign A gricultural Service Global A gricultural Trade System

4.3 Missouri Agricultural Trade

Exhibit 4.3.1 - Value of Missouri Soybean Exports

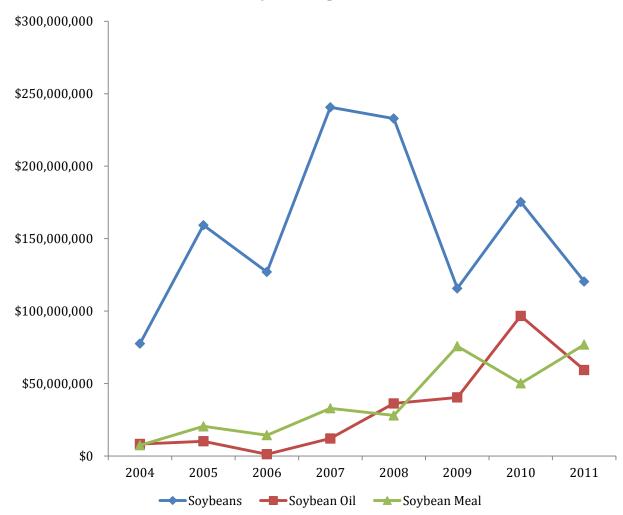


Exhibit 4.3.2 - Missouri Soybean Export Trading Partners, Thousand Dollars

2011 Rank	Country	2004	2005	2006	2007	2008	2009	2010	2011
1	Mexico	\$74,109	\$115,443	\$85,909	\$99,710	\$114,610	\$55,510	\$98,381	\$44,081
2	Taiwan	\$363	\$2,302	\$4,899	\$5,279	\$8,437	\$6,617	\$3,738	\$33,968
3	China	\$0	\$0	\$0	\$107,434	\$48,833	\$981	\$26,141	\$23,788
4	Indonesia	\$515	\$181	\$7	\$1,543	\$3,564	\$8,777	\$23,025	\$14,793
5	Japan	\$2,289	\$3,980	\$24,964	\$7,035	\$28,117	\$13,086	\$18,366	\$2,237
6	Vietnam	\$0	\$161	\$15	\$413	\$498	\$579	\$3,239	\$567
7	Malaysia	\$20	\$20	\$0	\$184	\$23	\$3,963	\$706	\$399
8	Afghanistan	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$315
9	Philippines	\$0	\$163	\$338	\$97	\$24	\$742	\$450	\$107
10	Canada	\$12	\$65	\$683	\$383	\$74	\$14,024	\$1,123	\$80
11	Argentina	\$0	\$3	\$0	\$0	\$0	\$0	\$0	\$17
12	Singapore	\$35	\$13,929	\$0	\$0	\$0	\$59	\$45	\$15
13	Uruguay	\$0	\$0	\$0	\$0	\$0	\$0	\$10	\$12
14	Bangladesh	\$0	\$1,937	\$0	\$0	\$0	\$0	\$0	\$0
15	Chile	\$0	\$0	\$0	\$2,273	\$0	\$0	\$0	\$0
16	Colombia	\$0	\$0	\$0	\$4,232	\$21,194	\$0	\$0	\$0
17	Cuba	\$0	\$21,010	\$0	\$0	\$6,112	\$0	\$0	\$0
18	Ireland	\$0	\$0	\$0	\$0	\$1,323	\$0	\$0	\$0
19	Guatemala	\$34	\$25	\$20	\$22	\$0	\$0	\$0	\$0
20	Hong Kong	\$0	\$0	\$229	\$0	\$50	\$0	\$29	\$0
21	Korea, South	\$0	\$0	\$368	\$105	\$0	\$0	\$0	\$0
22	Netherlands	\$0	\$0	\$0	\$11,939	\$0	\$0	\$0	\$0
23	Paraguay	\$0	\$0	\$3	\$0	\$0	\$0	\$0	\$0
24	Saudi Arabia	\$0	\$0	\$7	\$0	\$0	\$0	\$0	\$0
25	Spain	\$0	\$0	\$0	\$0	\$0	\$6,909	\$0	\$0
26	Thailand	\$139	\$62	\$171	\$0	\$0	\$4,422	\$0	\$0
27	Turkey	\$0	\$0	\$9,384	\$0	\$0	\$0	\$0	\$0
Т	'otal	\$77,516	\$159,281	\$126,996	\$240,647	\$232,860	\$115,670	\$175,254	\$120,379

Exhibit 4.3.3 - Missouri Soybean Meal Export Trading Partners, Thousand Dollars

2011 Rank	Country	2004	2005	2006	2007	2008	2009	2010	2011
1	Mexico	\$6,722	\$6,322	\$2,010	\$2,546	\$12,966	\$45,514	\$39,923	\$66,159
2	Morocco	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,537
3	Ecuador	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,408
4	United Arab Emirates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$756
5	Brazil	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10
6	Australia	\$0	\$13	\$15	\$0	\$0	\$0	\$0	\$0
7	Argentina	\$0	\$0	\$0	\$0	\$17	\$0	\$0	\$0
8	Belgium-Luxembourg	\$201	\$283	\$439	\$0	\$0	\$0	\$0	\$0
9	Canada	\$0	\$15	\$0	\$255	\$26	\$4	\$5	\$0
10	China	\$0	\$0	\$3	\$0	\$0	\$8	\$0	\$0
11	Chile	\$36	\$0	\$0	\$6,266	\$0	\$0	\$0	\$0
12	Colombia	\$3	\$0	\$42	\$0	\$2,346	\$0	\$0	\$0
13	Egypt	\$0	\$0	\$0	\$0	\$0	\$0	\$3	\$0
14	Ireland	\$0	\$0	\$0	\$5,359	\$9,671	\$0	\$0	\$0
15	Finland	\$253	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	Guatemala	\$0	\$10	\$0	\$0	\$0	\$2,334	\$0	\$0
17	Hong Kong	\$0	\$0	\$39	\$0	\$0	\$0	\$0	\$0
18	India	\$0	\$21	\$14	\$0	\$0	\$0	\$0	\$0
19	Japan	\$0	\$13,534	\$7,080	\$17,429	\$2,952	\$10,585	\$10,065	\$0
20	Korea, South	\$16	\$39	\$501	\$130	\$0	\$0	\$0	\$0
21	New Zealand	\$0	\$7	\$0	\$0	\$0	\$0	\$14	\$0
22	Peru	\$0	\$0	\$3,457	\$0	\$0	\$0	\$0	\$0
23	Philippines	\$0	\$0	\$53	\$363	\$0	\$5,244	\$126	\$0
24	Thailand	\$146	\$0	\$0	\$0	\$0	\$0	\$0	\$0
25	Turkey	\$0	\$0	\$0	\$0	\$0	\$12,053	\$0	\$0
26	Taiwan	\$8	\$210	\$676	\$558	\$0	\$0	\$0	\$0
	Total	\$7,587	\$20,759	\$14,783	\$32,905	\$27,978	\$75,742	\$50,149	\$76,870

Exhibit 4.3.4 - Missouri Soybean Oil Export Trading Partners, Thousand Dollars

2011 Rank	Country	2004	2005	2006	2007	2008	2009	2010	2011
1	Mexico	\$0	\$0	\$412	\$11,857	\$31,613	\$40,309	\$96,355	\$59,136
2	Colombia	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$73
3	Saudi Arabia	\$0	\$0	\$0	\$0	\$0	\$0	\$27	\$65
4	Lebanon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$51
5	Canada	\$3	\$145	\$29	\$234	\$4,579	\$77	\$99	\$38
6	Bahamas, The	\$0	\$0	\$0	\$0	\$63	\$0	\$0	\$0
7	China	\$0	\$0	\$6	\$0	\$0	\$0	\$0	\$0
8	Guatemala	\$2,710	\$4,695	\$0	\$0	\$0	\$0	\$0	\$0
9	India	\$0	\$58	\$0	\$0	\$0	\$0	\$0	\$0
10	Madagascar	\$4,203	\$3,631	\$0	\$0	\$0	\$0	\$0	\$0
11	Malawi	\$1,334	\$1,552	\$721	\$0	\$0	\$0	\$0	\$0
12	Malaysia	\$0	\$51	\$23	\$0	\$0	\$18	\$0	\$0
13	New Zealand	\$0	\$0	\$0	\$0	\$0	\$0	\$41	\$0
14	Philippines	\$0	\$0	\$5	\$0	\$0	\$0	\$0	\$0
15	Singapore	\$0	\$0	\$0	\$0	\$6	\$0	\$0	\$0
16	Trinidad and Tobago	\$0	\$0	\$0	\$0	\$0	\$0	\$121	\$0
	Total	\$8,250	\$10,133	\$1,196	\$12,091	\$36,261	\$40,403	\$96,683	\$59,363

Exhibit 4.3.5 – State-by-State Value of Soybean Exports, Ranked by 2011 Value, Thousand Dollars

2011 Rank	State	2007	2008	2009	2010	2011
1	Louisiana	\$5,016,975	\$7,038,352	\$7,807,467	\$8,764,338	\$8,299,074
2	Washington	\$2,305,308	\$4,469,013	\$3,716,877	\$4,136,463	\$3,685,577
3	Illinois	\$698,199	\$1,099,670	\$1,047,038	\$814,243	\$1,623,107
4	Nebraska	\$331,768	\$579,917	\$342,372	\$359,488	\$560,408
5	Ohio	\$179,237	\$207,956	\$306,771	\$341,799	\$530,729
6	Texas	\$69,332	\$126,119	\$741,119	\$864,505	\$501,906
7	Virginia	\$91,300	\$156,655	\$327,957	\$427,598	\$327,399
8	Iowa	\$158,700	\$317,392	\$351,749	\$540,984	\$320,913
9	Alabama	\$108,937	\$108,492	\$219,524	\$428,913	\$210,783
10	Minnesota	\$228,156	\$202,990	\$136,982	\$262,183	\$209,513
11	Oregon	\$60,047	\$2,409	\$142,197	\$388,110	\$182,637
12	Connecticut	\$3,095	\$95,084	\$392,833	\$244,937	\$132,411
13	Missouri	\$240,647	\$232,860	\$115,670	\$175,254	\$120,379
14	Michigan	\$47,295	\$121,916	\$108,058	\$78,736	\$113,660
15	Kansas	\$204,512	\$266,069	\$192,846	\$129,479	\$109,465
16	Wisconsin	\$48,527	\$68,967	\$60,890	\$73,071	\$105,012
17	New Jersey	\$2,513	\$9,757	\$34,845	\$74,844	\$77,470
18	Mississippi	\$0	\$23,499	\$817	\$69,378	\$76,124
19	New York	\$44,533	\$72,873	\$61,458	\$51,340	\$62,239
20	Oklahoma	\$0	\$0	\$0	\$11,093	\$62,187
21	Arkansas	\$3,737	\$32,542	\$24,948	\$38,577	\$58,469
22	North Dakota	\$26,300	\$31,872	\$24,744	\$31,813	\$53,579
23	North Carolina	\$16,871	\$42,133	\$43,655	\$78,470	\$33,453
24	Indiana	\$29,308	\$46,084	\$21,049	\$14,686	\$28,700
25	Tennessee	\$5,017	\$51,296	\$87,428	\$41,219	\$24,745
26	Georgia	\$66,315	\$68,712	\$82,751	\$39,444	\$16,296
27	Pennsylvania	\$9,017	\$7,424	\$14,235	\$11,151	\$11,134
28	South Carolina	\$216	\$358	\$153	\$4,412	\$10,267
29	California	\$10,141	\$50,815	\$12,633	\$17,730	\$6,350
30	Kentucky	\$41	\$165	\$46,687	\$2,080	\$5,008
31	Maryland	\$1,646	\$2,961	\$9	\$4,843	\$2,869
32	Vermont	\$318	\$637	\$1,012	\$1,404	\$998
33	Idaho	\$735	\$496	\$802	\$227	\$541
34	South Dakota	\$6,624	\$417	\$1,305	\$4,526	\$139
35	Maine	\$105	\$337	\$170	\$110	\$121
36	Florida	\$431	\$6	\$2,908	\$287	\$17
37	Arizona	\$22	\$0	\$0	\$0	\$6
38	Alaska	\$0	\$0	\$0	\$0	\$0
39	Colorado	\$8	\$0	\$0	\$0	\$0
40	District of Columbia	\$0	\$0	\$0	\$58,193	\$0
41	Hawaii	\$0	\$0	\$3,599	\$0	\$0
42	Massachusetts	\$53	\$0	\$0	\$0	\$0
43	Montana	\$12	\$51	\$9	\$175	\$0
44	New Hampshire	\$0	\$256	\$0	\$0	\$0
45	Nevada	\$30	\$362	\$79	\$8	\$0
46	Rhode Island	\$0	\$0	\$0	\$0	\$0
47	Utah	\$0	\$55	\$0	\$0	\$0
48	West Virginia	\$14	\$0	\$48	\$0	\$0
49	Wyoming	\$0	\$12	\$0	\$0	\$0
	Total	\$10,016,041	\$15,536,979	\$16,475,693	\$18,586,111	\$17,563,685

Exhibit 4.3.6 – State-by-State Value of Soybean Meal Exports, Ranked by 2011 Value, Thousand Dollars

2011 Rank	State	2007	2008	2009	2010	2011
1	Louisiana	\$804,145	\$1,138,039	\$1,257,175	\$1,267,066	\$1,221,427
2	Iowa	\$281,281	\$259,881	\$252,701	\$312,907	\$263,819
3	Virginia	\$100,102	\$210,893	\$257,966	\$235,923	\$249,152
4	Washington	\$66,461	\$240,248	\$317,441	\$485,453	\$217,171
5	Minnesota	\$154,610	\$183,944	\$144,031	\$114,965	\$157,114
6	Arizona	\$93,645	\$133,097	\$133,709	\$118,765	\$121,715
7	Nebraska	\$33,015	\$47,509	\$72,354	\$64,355	\$100,761
8	Illinois	\$42,665	\$130,183	\$134,382	\$91,233	\$80,695
9	Missouri	\$32,905	\$27,978	\$75,742	\$50,136	\$76,870
10	Georgia	\$21,197	\$111,109	\$157,586	\$173,240	\$76,435
11	South Dakota	\$35,495	\$58,100	\$43,404	\$49,731	\$67,226
12	Michigan	\$252	\$1,115	\$1,009	\$495	\$16,324
13	Kansas	\$3,253	\$4,882	\$13,024	\$9,132	\$13,373
14	Kentucky	\$7	\$109	\$48	\$10	\$7,109
15	West Virginia	\$0	\$0	\$0	\$8,250	\$6,000
16	Maryland	\$145	\$366	\$217	\$6,376	\$5,610
17	North Dakota	\$3,843	\$1,973	\$1,355	\$1,046	\$5,457
18	Oklahoma	\$2,975	\$2,827	\$4,121	\$4,222	\$4,237
19	Montana	\$1,755	\$2,271	\$1,957	\$2,368	\$3,126
20	Oregon	\$50	\$6	\$4,289	\$1,193	\$1,732
21	Florida	\$24	\$17	\$51	\$62	\$1,379
22	Ohio	\$1,075	\$8,151	\$14,590	\$2,098	\$1,136
23	Texas	\$764	\$683	\$178	\$524	\$890
24	California	\$1,650	\$8,736	\$4,859	\$3,182	\$886
25	Tennessee	\$630	\$762	\$882	\$695	\$599
26	New York	\$2,366	\$9,830	\$28,168	\$4,271	\$379
27	Utah	\$0	\$0	\$48	\$0	\$356
28	Arkansas	\$420	\$0	\$116	\$0	\$226
29	North Carolina	\$0	\$180	\$1,452	\$566	\$189
30	Wisconsin	\$0	\$17	\$46	\$39	\$95
31	New Jersey	\$0	\$0	\$261	\$394	\$52
32	South Carolina	\$7	\$8	\$0	\$263	\$50
33	Indiana	\$205	\$9,270	\$14,074	\$5,366	\$30
34	Nevada	\$3	\$0	\$0	\$0	\$20
35	Connecticut	\$0	\$5,000	\$65,740	\$82,437	\$10
36	Alabama	\$0	\$173	\$0	\$0	\$0
37	Delaware	\$0	\$28	\$20	\$48	\$0
38	Hawaii	\$0	\$109	\$0	\$0	\$0
39	Idaho	\$14	\$189	\$154	\$67	\$0
40	Massachusetts	\$0	\$15	\$0	\$440	\$0
41	Maine	\$0	\$0	\$0	\$0	\$0
42	Mississippi	\$0	\$0	\$0	\$154	\$0
43	New Mexico	\$0	\$0	\$38	\$9	\$0
44	Pennsylvania	\$104	\$83	\$0	\$0	\$0
	Total	\$1,685,062	\$2,597,780	\$3,003,189	\$3,097,481	\$2,701,652

Exhibit 4.3.7 – State-by-State Value of Soybean Oil Exports, Ranked by 2011 Value, Thousand Dollars

2011 Rank	State	2007	2008	2009	2010	2011
1	Louisiana	\$452,113	\$850,196	\$689,754	\$1,127,036	\$764,426
2	Virginia	\$61,546	\$143,199	\$73,437	\$106,280	\$185,141
3	Iowa	\$50,952	\$82,259	\$44,527	\$41,529	\$68,017
4	Missouri	\$12,091	\$36,261	\$40,403	\$96,642	\$59,363
5	Minnesota	\$43,340	\$92,865	\$45,106	\$41,380	\$41,295
6	Texas	\$9,173	\$6,886	\$3,472	\$10,878	\$31,076
7	Kansas	\$11,719	\$19,268	\$28,598	\$50,337	\$25,501
8	Georgia	\$1,156	\$8,063	\$17,896	\$7,993	\$20,882
9	Illinois	\$38,861	\$69,981	\$23,619	\$21,459	\$19,638
10	Florida	\$6,249	\$6,509	\$7,479	\$8,936	\$10,641
11	Tennessee	\$7,787	\$11,556	\$8,822	\$14,865	\$8,516
12	Nebraska	\$7,436	\$15,324	\$24,760	\$3,162	\$8,194
13	Ohio	\$6,202	\$2,906	\$3,830	\$4,712	\$5,369
14	New Jersey	\$109	\$1,037	\$2,744	\$4,988	\$4,086
15	Connecticut	\$7	\$30	\$5,311	\$12,953	\$3,787
16	California	\$7,906	\$8,861	\$7,206	\$3,519	\$3,731
17	Wisconsin	\$3,113	\$3,639	\$4,020	\$1,770	\$2,963
18	Oregon	\$3,335	\$718	\$406	\$511	\$805
19	Pennsylvania	\$54	\$150	\$202	\$274	\$611
20	Michigan	\$936	\$1,461	\$1,112	\$747	\$589
21	Indiana	\$1,123	\$1,656	\$231	\$730	\$508
22	New York	\$285	\$388	\$328	\$229	\$479
23	North Carolina	\$110	\$124	\$650	\$79	\$415
24	South Dakota	\$322	\$423	\$10	\$294	\$339
25	North Dakota	\$0	\$0	\$1,521	\$299	\$275
26	Massachusetts	\$311	\$203	\$219	\$27	\$149
27	Oklahoma	\$47	\$0	\$0	\$0	\$149
28	Montana	\$0	\$0	\$0	\$0	\$114
29	Arizona	\$259	\$97	\$71	\$168	\$99
30	Kentucky	\$16	\$0	\$24	\$28	\$65
31	Arkansas	\$0	\$4,107	\$0	\$3	\$43
32	Nevada	\$0	\$0	\$0	\$34	\$33
33	South Carolina	\$0	\$23	\$0	\$0	\$30
34	Colorado	\$22	\$0	\$0	\$0	\$29
35	Washington	\$0	\$152	\$13	\$3	\$11
36	Alabama	\$50	\$371	\$107	\$38	\$0
37	District of Columbia	\$0	\$0	\$0	\$0	\$0
38	Delaware	\$0	\$0	\$0	\$0	\$0
39	Idaho	\$0	\$3	\$0	\$18	\$0
40	Maryland	\$19	\$0	\$20	\$6,745	\$0
41	Maine	\$0	\$0	\$0	\$0	\$0
42	Mississippi	\$65	\$0	\$0	\$0	\$0
43	Utah	\$3	\$0	\$24	\$0	\$0
	Total	\$726,719	\$1,368,717	\$1,035,921	\$1,568,667	\$1,267,368