

**CORN AND SOYBEANS: Production Costs and Returns,
Heartland Region, Excluding Government Payments, 2004-2005 1/ 2/**

Item	Corn		Soybeans	
	2004	2005	2004	2005
	<u>Dollars Per Planted Acre</u>		<u>Dollars Per Planted Acre</u>	
Gross value of production (excluding direct Government payments)				
Total gross value of production	375.31	286.30	272.08	282.09
Operating Costs				
Seed	37.05	39.72	29.56	32.59
Fertilizer, lime, and gypsum	48.90	58.59	7.59	9.55
Soil conditioners	0.10	0.10	0.10	0.09
Manure	1.74	2.10	0.51	0.62
Chemicals	27.11	27.18	16.61	14.00
Custom operations 3/	10.53	10.76	5.53	5.75
Fuel, lube, and electricity	25.41	30.19	7.72	11.14
Repairs	13.82	14.36	9.64	10.08
Interest on operating capital	1.26	3.08	0.61	1.41
Total operating cost	165.92	186.08	77.87	85.23
Allocated overhead				
Hired labor	2.30	2.37	1.27	1.29
Opportunity cost of unpaid labor	24.28	24.58	15.14	15.63
Capital recovery of machinery and equipment	58.11	60.39	44.92	46.99
Opportunity cost of land (rental rate)	103.58	106.90	98.97	102.09
Taxes and insurance	5.24	5.45	5.95	6.15
General farm overhead	11.17	11.61	12.35	12.97
Total allocated overhead	204.68	211.30	178.60	185.12
Total cost listed	370.60	397.38	256.47	270.35
Value of production less total costs listed	4.71	-111.08	15.61	11.74
Value of production less operating costs	209.39	100.22	194.21	196.86
Supporting information				
Yield (bu./planted acre)	178	161	49	49
Price (dollars per bushel at harvest)	2.10	1.77	5.58	5.70
Enterprise size (planted acres) 1/	270	270	280	280
Production practices 1/				
Irrigated (percent)	5	5	5	5
Dryland (percent)	95	95	95	95

1/ Developed from survey base year 2001 for corn. Developed from survey base year 2002 for soybeans.

2/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS websites listed below.

3/ Cost of custom operations, technical services, and commercial drying.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data)

**WHEAT: Production Costs and Returns, Northern Plains Region,
Excluding Government Payments, 1998-2005 1/ 2/**

Item	1998	1999	2000	2001	2002	2003	2004	2005
	<u>Dollars per Planted Acre</u>							
Gross value of production (excluding direct Government payments)								
Wheat	100.10	85.49	83.98	77.94	80.59	124.20	141.44	114.31
Wheat straw	1.74	1.42	1.67	1.85	2.39	2.07	2.38	2.42
Total, gross value of production	101.84	86.91	85.65	79.79	82.98	126.27	143.82	116.73
Cash expenses								
Seed	7.64	6.36	6.19	6.34	6.33	7.89	8.06	8.47
Fertilizer, lime, and gypsum	14.78	13.46	13.91	19.66	14.40	19.74	19.41	22.39
Chemicals	10.61	10.28	10.15	10.14	10.09	10.02	14.26	14.26
Custom operations	4.04	3.82	4.00	3.77	3.13	4.68	6.80	6.80
Fuel, lube, and electricity	4.25	4.16	6.06	6.03	5.22	7.02	6.28	8.72
Repairs	8.10	8.85	9.85	9.66	9.57	10.38	9.89	10.30
Hired Labor	1.45	1.48	1.60	1.67	1.70	1.80	1.80	1.86
Other variable cash expenses 3/	0.16	0.16	0.16	0.17	0.17	0.18	0.10	0.10
Total, variable cash expenses	51.03	48.57	51.92	57.44	50.61	61.71	66.60	72.90
General farm overhead	6.32	6.42	6.49	6.76	6.97	7.16	9.00	9.46
Taxes and insurance	3.76	3.81	3.85	3.95	3.99	4.08	6.88	6.94
Interest on operating inputs	1.19	1.11	1.45	0.94	0.41	0.32	1.10	1.21
Total, fixed cash expenses	11.27	11.34	11.79	11.65	11.37	11.56	16.98	17.61
Total, cash expenses	62.04	59.91	63.71	69.09	61.98	73.27	83.58	90.51
Gross value of production less cash expenses listed	39.80	27.00	21.94	10.70	21.00	53.00	60.24	26.22
Harvest-period price (dollars/bu.)	2.91	2.68	2.50	2.66	3.55	3.29	3.40	3.22
Yield (bu./planted acre)	34.40	31.90	33.60	29.30	22.70	37.80	41.60	35.50

1/ Data for 1996-1997 refer to the Northern Plains Region which includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

2/ Data for 1998 and later refer to the Northern Great Plains Region which includes North Dakota, South Dakota, and parts of Montana, Wyoming, Nebraska and Minnesota.

3/ Cost of purchased irrigation water and baling.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/)

**BARLEY: Production Costs and Returns, Northern Plains Region,
Excluding Government Payments, 1998-2005 1/ 2/**

Item	1998	1999	2000	2001	2002	2003	2004	2005
	<u>Dollars per Planted Acre</u>							
Gross value of production (excluding direct Government payments)								
Barley	79.90	73.27	68.82	75.98	69.85	154.25	137.39	102.03
Barley straw	2.07	1.79	2.02	2.07	2.33	4.13	4.33	4.41
Total, gross value of production	81.97	75.09	70.84	78.05	72.18	158.38	141.72	106.44
Cash expenses								
Seed	6.30	5.73	5.84	5.84	5.81	8.21	7.89	7.88
Fertilizer, lime, and gypsum	14.49	13.52	13.80	18.15	14.16	16.43	17.45	20.13
Chemicals	8.11	8.14	7.77	7.93	7.88	12.16	12.16	12.16
Custom operations	3.49	3.68	3.64	3.77	3.72	6.13	6.18	6.18
Fuel, lube, and electricity	7.55	7.72	10.28	8.92	8.30	7.76	9.03	12.54
Repairs	14.08	14.25	14.91	15.02	14.58	14.24	14.56	15.17
Hired Labor	4.50	4.65	4.88	5.23	5.18	1.97	2.02	2.08
Other variable cash expenses 3/	1.06	1.32	1.14	1.32	1.19	0.69	0.70	0.72
Total, variable cash expenses	59.58	59.01	62.26	66.18	60.82	67.59	69.99	76.86
General farm overhead	6.07	5.77	5.82	6.01	6.15	8.10	8.28	8.70
Taxes and insurance	11.14	10.39	10.70	10.70	10.89	6.77	6.88	6.94
Interest on operating inputs 4/	11.33	11.40	11.40	12.15	10.84	0.35	0.54	1.27
Total, fixed cash expenses	28.54	27.56	27.92	28.86	27.88	15.22	15.70	16.91
Total, cash expenses	88.12	86.57	90.18	95.04	88.70	82.81	85.69	93.77
Gross value of production less cash expenses listed	-6.15	-11.51	-19.34	-16.99	-16.52	75.57	56.03	12.67
Harvest-period price (dollars/bu.)	1.69	1.73	1.59	1.83	2.14	2.82	2.48	1.90
Yield (bu./planted acre)	47.28	42.35	43.28	41.52	32.64	54.70	55.40	53.70

1/ Data for 1996-2002 refer to the Northern Plains Region which includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

2/ Data for 2003 and later refer to the Northern Great Plains Region which includes North Dakota, portions of Nebraska, Colorado, Wyoming, South Dakota, Montana, and Minnesota Ag. Statistics District 10.

3/ Cost of purchased irrigation water and baling.

4/ Data for 2003 includes interest on operating inputs only.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/)

**OATS: Production Costs and Returns, North Central Region,
Excluding Government Payments, 1998-2005 1/**

Item	1998	1999	2000	2001	2002	2003	2004	2005
	Dollars per Planted Acre							
Gross value of production (excluding direct Government payments)								
Oats	64.03	68.26	69.90	85.42	103.02	119.02	94.43	104.71
Oats straw	44.21	45.34	46.48	48.18	48.77	49.35	49.89	50.50
Total, gross value of production	108.24	113.60	116.38	133.60	151.79	168.37	144.32	155.21
Cash expenses								
Seed	9.72	9.02	8.30	8.23	8.11	10.53	9.96	10.14
Fertilizer, lime, and gypsum	19.10	17.90	18.24	21.16	18.39	20.14	22.09	27.42
Chemicals	1.27	1.26	1.25	1.27	1.28	1.29	1.28	1.35
Custom operations 2/	5.73	5.75	5.76	5.82	5.78	5.80	5.83	6.11
Fuel, lube, and electricity	3.54	3.72	5.52	5.19	4.53	6.28	7.30	7.30
Repairs	7.10	6.70	6.57	6.69	6.77	6.80	7.38	7.52
Hired Labor	1.91	2.00	2.18	2.17	2.31	2.57	2.49	2.59
Other variable cash expenses 3/	1.63	1.67	1.71	1.78	1.80	1.82	1.84	1.86
Total, variable cash expenses	50.00	48.02	49.53	52.31	48.97	55.23	58.17	64.29
General farm overhead	5.01	5.08	5.21	5.38	5.50	5.63	5.76	6.05
Taxes and insurance	19.58	20.15	21.16	21.54	21.32	21.76	21.98	22.92
Interest	6.50	6.13	6.48	6.60	6.02	6.02	5.96	6.31
Total, fixed cash expenses	31.09	31.36	32.85	33.52	32.84	33.41	33.70	34.34
Total, cash expenses	81.09	79.38	82.38	85.83	81.81	88.64	91.87	98.63
Gross value of production less cash expenses listed	27.15	34.22	34.00	47.77	69.98	79.73	52.45	56.58
Harvest-period price (dollars/bu.)	1.09	1.10	1.02	1.32	1.67	1.67	1.41	1.61
Yield (bu./planted acre)	58.74	62.05	68.53	64.71	61.69	71.27	66.97	65.04

1/ The North Central Region includes Minnesota, Iowa, Wisconsin, Illinois, Michigan, and Ohio.

2/ Cost of custom operations and technical service.

3/ Cost of baling.

Note: Survey base changed in 1994.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site: (www.ers.usda.gov/data/)

**SUGARBEETS: Production Costs and Returns, Red River Valley,
Excluding Government Payments, 1998-2005 1/**

Item	1998	1999	2000	2001	2002	2003	2004	2005
	Dollars per Planted Acre							
Gross value of production								
Beets – gross value of production	733.42	739.11	723.06	752.49	721.69	911.27	759.13	773.79
Cash expenses								
Seed	46.39	45.55	44.89	45.01	48.02	48.02	51.67	52.75
Fertilizer	35.68	33.83	28.74	37.21	29.79	36.96	39.10	45.09
Chemicals	71.43	70.62	109.03	109.80	109.72	109.60	108.30	109.20
Custom operations	25.78	24.79	23.49	23.02	23.53	24.81	24.73	25.53
Fuel, lube, and electricity	18.43	19.18	24.86	24.55	23.07	24.40	28.03	38.93
Repairs	33.53	34.38	32.52	34.59	37.00	38.59	38.93	40.56
Hired Labor	86.06	84.88	51.76	55.21	55.95	58.44	61.89	63.82
Purchased irrigation water	0.05	0.04	0.06	0.06	0.06	0.06	0.07	0.07
Freight and dirt hauling charges	11.25	10.85	13.62	13.91	13.88	15.08	15.54	17.79
Miscellaneous 2/	15.71	15.77	13.30	13.75	13.65	14.39	15.14	16.18
Hauling allowance (-)	-10.75	-10.36	-10.34	-10.44	-10.45	-10.45	-10.45	-11.17
Total, variable cash expenses	335.56	329.53	331.93	346.67	344.22	359.90	372.95	398.75
General farm overhead	28.98	29.48	27.55	28.30	28.92	29.58	30.24	31.79
Taxes and insurance	40.39	40.76	14.57	12.59	12.84	13.13	13.43	13.54
Interest	48.63	49.59	8.38	4.96	2.44	1.60	2.54	5.88
Total, fixed cash expenses	118.00	119.83	50.50	45.85	44.20	44.31	46.21	51.21
Total, cash expenses	451.56	449.36	382.43	392.52	388.42	404.21	419.16	449.96
Gross value of production less cash expenses listed	281.86	289.75	340.63	366.97	333.27	507.06	339.97	323.83
Season-average price (dollars/ton) 3/	35.21	37.16	35.10	42.27	39.01	44.89	38.34	41.30
Yield (net tons/planted acre)	20.83	19.89	20.60	17.80	18.50	20.30	19.80	18.74

1/ The Red River Valley Region includes Minnesota and eastern North Dakota.

2/ Includes costs deducted by the processor from the net payment and noncash benefits.

3/ Sugarbeet prices for 2005 were held at the U.S. level because State prices for 2005 were unavailable at the time of publication.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site: (www.ers.usda.gov/data/)

**HOG PRODUCTION: Farrow-to-Finish, Farrow-to-Feeder,
Feeder Pig-to-Finish, Farrow-to-Weanling, Costs and Returns, Heartland Region, 2005 1/**

Item	All Hog Producers	Farrow to Finish	Farrow to Feeder 2/	Feeder Pig To Finish	Farrow to Weanling
	<u>Dollars per Cwt Gain 3/</u>				
Gross value of production					
Market hogs	50.94	48.84	0.35	58.77	0.00
Feeder pigs	16.50	0.77	113.66	0.02	249.53
Cull stock	0.70	2.04	6.41	0.00	13.51
Breeding stock	0.05	0.16	0.12	0.01	1.09
Inventory change	0.05	0.28	-0.08	0.00	-0.48
Other income 4/	2.30	2.05	1.63	2.40	3.92
Total gross value of production	70.54	54.14	122.09	61.20	267.57
Operating costs					
Feed					
Grain	2.75	7.22	2.16	1.73	3.12
Protein sources	2.28	6.10	1.71	1.34	3.96
Complete mixes	11.53	5.55	45.23	10.80	41.13
Other feed items 5/	0.10	0.24	0.23	0.07	0.03
Total feed costs	16.66	19.11	49.33	13.94	48.24
Other					
Feeder pigs	21.47	0.14	0.00	21.32	0.11
Veterinary and medicine	0.97	1.45	4.81	0.58	4.11
Bedding and litter	0.02	0.03	0.31	0.01	0.08
Marketing	0.72	0.40	2.06	0.47	6.39
Custom services	0.28	0.29	0.94	0.25	1.01
Fuel, lube, and electricity	1.22	1.91	4.91	0.82	9.85
Repairs	0.70	1.05	2.03	0.48	5.30
Interest on operating capital	0.71	0.41	1.09	0.64	1.27
Total operating costs	42.75	24.79	65.48	38.51	76.36
Allocated overhead					
Hired labor	1.66	3.32	9.54	0.52	25.03
Opportunity cost of unpaid labor	3.22	6.01	11.29	2.19	12.91
Capital recovery of machinery and equipment 6/	7.01	10.13	24.00	4.27	46.49
Opportunity cost of land (rental rate)	0.03	0.06	0.10	0.02	0.16
Taxes and insurance	0.51	0.75	1.76	0.38	2.82
General farm overhead	1.21	1.37	6.55	0.78	12.77
Total, allocated overhead	13.64	21.64	53.24	8.16	100.18
Total costs listed	56.39	46.43	118.72	46.67	176.54
Value of production less total costs listed	14.15	7.71	3.37	14.53	91.03
Value of production less operating costs	27.79	29.35	56.61	22.69	191.21
Supporting information					
Production arrangement (percent of production)					
Independent	49	100	53	38	36
Under contract	51	0	47	62	64
Size of operation (head sold/removed)					
Market hogs	3,011	1,826	4	4,335	0
Feeder pigs	2,626	73	3,554	2	32,255

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS website. Developed from survey base year, 1998.

2/ Farrow to Feeder data are for the United States (Heartland Region data are not available).

3/ Cwt gain=(cwt sold-cwt purchased) + cwt inventory change.

4/ Value of manure production.

5/ Milk replacer, milk, milk by-products, antibiotics, and other medicated additives.

6/ Machinery and equipment, and housing, manure handling, and feed storage structures, and breeding herd.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/)

COW-CALF: Production Costs and Returns, Heartland Region, 2004-2005 1/

Item	2004	2005
	<u>Dollars per Bred Cow</u>	
Gross value of production		
Steer calves	221.71	246.54
Heifer calves	148.89	165.33
Yearling steers	44.97	48.03
Yearling heifers	13.89	14.77
Other cattle	87.79	91.62
Total gross value of production	521.64	570.87
Operating costs		
Purchased cattle for backgrounding	30.20	32.02
Feed		
Concentrates and other feed	33.12	28.36
Supplemental feed	32.80	32.35
Harvested forages	184.41	183.93
Cropland pasture	14.33	15.12
Private pasture	82.31	86.52
Public land	0.37	0.37
Total feed costs	347.34	346.65
Other		
Veterinary and medicine	40.15	41.38
Bedding and litter	1.40	1.48
Marketing	4.39	4.58
Custom operations	41.62	43.09
Fuel, lube, and electricity	29.23	43.19
Repairs	30.29	31.42
Interest on operating inputs	4.12	8.86
Total operating costs	528.74	552.67
Allocated overhead		
Hired labor	0.64	0.65
Opportunity cost of unpaid labor	233.01	231.63
Capital recovery cost of machinery and equipment	299.89	321.79
Opportunity cost of land	6.01	6.23
Taxes and insurance	45.84	45.59
General farm overhead	88.36	92.36
Total allocated overhead	673.75	698.25
 Total cost listed	 1,202.49	 1,250.92
Value of production less total costs listed	-680.85	-680.05
Value of production less operating costs	-7.10	18.20

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS website listed below. Developed from survey base year, 1996.
Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/)



MILK: Production Costs and Returns, per cwt sold, 2004-2005 1/

Item	Heartland 2/		Northern Crescent 3/	
	2004	2005	2004	2005
	Dollars per Cwt.			
Gross value of production				
Milk	16.71	15.81	17.29	16.24
Cattle	1.87	1.92	1.47	1.51
Other income 4/	1.06	1.19	0.81	0.93
Total gross value of production	19.64	18.92	19.57	18.68
Operating costs				
Feed				
Feed grains	1.77	1.71	1.19	1.13
Hay and straw	2.40	2.47	1.36	1.50
Complete feed mixes	1.19	1.01	1.38	1.25
Liquid whey and milk replacer	0.15	0.14	0.14	0.13
Silage	0.81	0.94	0.95	2.30
Grazed pasture and cropland	0.14	0.15	0.07	0.07
Other feed item 5/	1.79	1.80	1.48	1.22
Total feed costs	8.25	8.22	6.57	7.60
Other				
Veterinary and medicine	0.79	0.84	0.82	0.86
Bedding and litter	0.23	0.24	0.24	0.26
Marketing	0.22	0.23	0.32	0.34
Custom service	0.55	0.58	0.49	0.52
Fuel, lube, and electricity	0.62	0.92	0.64	0.92
Repairs	0.64	0.71	0.65	0.72
Other operating costs 6/	0.00	0.00	0.00	0.00
Interest on operating capital	0.09	0.20	0.08	0.19
Total operating costs	11.39	11.94	9.81	11.41
Allocated overhead				
Hired labor	0.90	0.91	1.41	1.43
Opportunity cost of unpaid labor	5.92	6.05	5.27	5.26
Capital recovery of machinery and equipment 7/	4.96	5.45	4.39	4.80
Opportunity cost of land (rental rate)	0.10	0.10	0.08	0.08
Taxes and insurance	0.20	0.21	0.23	0.24
General farm overhead	0.61	0.65	0.67	0.71
Total allocated overhead	12.69	13.37	12.05	12.52
 Total cost listed	 24.08	 25.31	 21.86	 23.93
Value of production less total costs listed	-4.44	-6.39	-2.29	-5.25
Value of production less operating costs	8.25	6.98	9.76	7.27
Supporting information				
Milk cows (head per farm)	62	62	71	72
Output per cow (pounds)	18,680	18,628	19,899	19,946
Milk frequency greater than twice per day (percent of farms)	2.11	2.01	3.21	3.37
Homegrown feed cost (percent of total feed cost)	59	59	48	48
Milk cows injected with BST (head per farm)	11	11	15	15

1/ Developed from survey base year, 2000.

2/ The Heartland Region includes MN Agricultural Statistics Districts (ASD) 4, 7, 8 and 9, SD ASD 6 and 9, NE ASD 3 and 6, IA, MO ASD 1, 2, 3, 4, 5 and 9, IL, IN, KY ASD 1 and 2, and Ohio ASD 1, 4, 5, 7 and 8.

3/ Northern Crescent Region includes New England, New York ASD 1, 2, 3, 5, 6, 8 and 9, Ohio ASD 2 and 3, MI, WI and MN ASD 2, 3, 5 and 6.

4/ Income from renting or leading dairy stock to other operations; renting space to other dairy operations; co-op patronage dividends associated with the dairy; assessment rebates, refunds, and other dairy related resources; and manure production.

5/ Cotton seed meal, protein supplements, protein byproducts, vitamin or mineral supplements, non-protein byproducts, alfalfa cubes or pellets, green chop, corn stalks, and antibiotics and other medicated additives.

6/ Manure disposal fees, permits, licenses, and odor control costs.

7/ Machinery and equipment, and housing, manure handling, and feed storage structures, and dairy breeding herd.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/)