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2015 JOURNAL OF ASFMRA

Table 3. Average Cash Rent Used For Codington County, SD 2005-2016

Year	Dollars/Acre	Net Returns - 40 Acres
2016	\$148	\$5,920
2015	\$148	\$5,920
2014	\$148	\$5,920
2013	\$148	\$5,920
2012	\$127	\$5,080
2011	\$106	\$4,240
2010	\$89	\$3,540
2009	\$84	\$3,340
2008	\$77	\$3,060
2007	\$77	\$3,084
2006	\$70	\$2,816
2005	\$67	\$2,672

Source: For years 2005-2013: NASS. 2014. <http://quickstats.nass.usda.gov/results/CF39D73E-3D27-32DE-80C1-0EE83F3F63E5>. Accessed March 2014. For years 2014-2016, because of the projected decrease in commodity prices, cash rents were projected to stay flat at the 2013 cost level.

Table 4. Annual Average Production Costs – Heartland 2005-2016

Year	Crop	Dollars/Acre				
		Seed	Fertilizer	Chemical	Custom Operations	Interest
2016	Wheat	\$17.80	\$39.81	\$14.65	\$10.79	\$0.56
2015	Soybeans	\$67.18	\$21.81	\$18.06	\$7.84	\$0.74
2014	Corn	\$97.91	\$136.87	\$28.18	\$17.81	\$0.71
2013	Wheat	\$17.49	\$42.63	\$14.65	\$10.48	\$0.09
2012	Soybeans	\$60.81	\$23.98	\$17.10	\$6.33	\$0.09
2011	Corn	\$90.78	\$155.18	\$26.95	\$15.53	\$0.17
2010	Wheat	\$21.85	\$76.70	\$8.84	\$10.18	\$0.14
2009	Soybeans	\$53.50	\$22.01	\$16.87	\$6.03	\$0.17
2008	Corn	\$61.29	\$146.62	\$27.68	\$9.80	\$2.16
2007	Wheat	\$20.19	\$65.27	\$5.14	\$6.13	\$2.61
2006	Soybeans	\$32.01	\$12.73	\$14.38	\$5.27	\$2.04
2005	Corn	\$41.23	\$72.67	\$24.71	\$8.99	\$3.07

Source: For years 2005-2013. Economics Research Service. 2014. http://www.ers.usda.gov/datafiles/Commodity_Costs_and_Returns/Data/Recent_Costs_and_Returns_Corn/rhlcorn.xls and http://ers.usda.gov/datafiles/Commodity_Costs_and_Returns/Data/Recent_Costs_and_Returns_Wheat/rhlwhea.xls and http://ers.usda.gov/datafiles/Commodity_Costs_and_Returns/Data/Recent_Costs_and_Returns_Soybeans/rhlsoyb.xls. For years 2014-2015; ERS. <http://ers.usda.gov/data-products/commodity-costs-and-returns.aspx>. Click the down arrow to the right of data. Select "Cost of Production Forecast. Then click Excel icon. Then click "open." Accessed March 2014. Estimates for 2016 were not available. So the senior author prepared the 2016 cost of production projections.

2015 JOURNAL OF ASFMRA

Table 5. Average Custom Farming Rates (Dollars/Acre) – 2005-2016

Year	Crop	Spring Tillage - Field Cultivating	Planting/Seeding with Liquid Fertilizer	Rock Picking/Rolling
2016	Wheat	\$15.45	\$17.25	
2015	Soybeans	\$14.72	\$18.30	\$14.83
2014	Corn	\$14.02	\$19.37	
2013	Wheat	\$13.35	\$14.90	
2012	Soybeans	\$12.30	\$15.60	\$12.90
2011	Corn	\$11.45	\$15.70	
2010	Wheat	\$10.85	\$13.00	
2009	Soybeans	\$10.70	\$16.60	\$11.70
2008	Corn	\$10.10	\$14.60	
2007	Wheat	\$9.05	\$10.50	
2006	Soybeans	\$8.45	\$11.45	\$11.30
2005	Corn	\$8.00	\$12.15	

Year	Crop	Harvest	Hauling Grain to Market 25 Miles (Per Bushel)	Chopping Corn Stalks
2016	Wheat	\$34.38	\$0.19	
2015	Soybeans	\$35.28	\$0.18	
2014	Corn	\$34.55	\$0.17	\$11.97
2013	Wheat	\$29.70	\$0.17	
2012	Soybeans	\$31.10	\$0.16	
2011	Corn	\$30.90	\$0.16	\$10.35
2010	Wheat	\$27.20	\$0.15	
2009	Soybeans	\$28.70	\$0.15	
2008	Corn	\$28.10	\$0.15	\$9.50
2007	Wheat	\$23.70	\$0.13	
2006	Soybeans	\$25.00	\$0.12	
2005	Corn	\$24.60	\$0.11	\$7.45

Year	Crop	Fall Tillage - Chisel Plow	Fall Tillage - Tandem Disk	Fall Tillage - Disk Chisel
2016	Wheat		\$15.74	
2015	Soybeans	\$16.75		
2014	Corn			\$16.85
2013	Wheat		\$13.60	
2012	Soybeans	\$14.90		
2011	Corn			\$14.95
2010	Wheat		\$11.60	
2009	Soybeans	\$15.20		
2008	Corn			\$13.90
2007	Wheat		\$9.45	
2006	Soybeans	\$11.80		

2015 JOURNAL OF ASFMRA

Table 5. Average Custom Farming Rates (Dollars/Acre) – 2005-2016 (cont'd.)

Source:

For 2005-2010 See Edwards W. and D. Smith. 2005. 2005 Iowa Farm Custom Rate Survey, March.

<http://www.extension.iastate.edu/sites/www.extension.iastate.edu/files/decatu/2005iowacustomratesurvey.pdf>. Accessed March 2014.

Edwards, W. and D. Smith 2006. 2006 Iowa Farm Custom Rate Survey, March.

<http://www.extension.iastate.edu/sites/www.extension.iastate.edu/files/decatu/2006customfarmrate1.pdf>. Accessed March 2014.

Edwards, W. and D. Smith 2007. 2007 Iowa Farm Custom Rate Survey, March.

<http://www.agrisk.umn.edu/cache/ARLO3448.pdf>. Accessed March 2014.

Edwards, W. and D. Smith 2008. 2008 Iowa Farm Custom Rate Survey, March.

<http://www.extension.iastate.edu/sites/www.extension.iastate.edu/files/wright/customrates2008.pdf>. Accessed March 2014

Edwards, W. and D. Smith 2009. 2009 Iowa Farm Custom Rate Survey, March.

<http://www.extension.iastate.edu/sites/www.extension.iastate.edu/files/clay/CustomRateSurvey2009.pdf>. Accessed March 2014.

Edwards, W. and D. Smith 2010. 2010 Iowa Farm Custom Rate Survey, March.

<http://outagamie.uwex.edu/files/2010/06/2010CustomRateSurvey.pdf>. Accessed March 2014.

2011-2014 was estimated by the senior author with help from Dr. William Edwards, Iowa State University.

2015 JOURNAL OF ASFMRA

Table 6. Net Returns - Custom Farming, Cash Rent and Crop-Share (2005-2016)

Year	2005	2006	2007	2008
Crop	Corn	Soybeans	Wheat	Corn
Custom Farming				
<i>Cash Expenses</i>				
Crop Production	\$6,027	\$2,657	\$3,974	\$9,902
Custom Farming	\$2,580	\$2,725	\$2,113	\$3,054
<i>Total Cash Expenses</i>	\$8,607	\$5,382	\$6,087	\$12,956
<i>Revenue</i>				
Selling Crop	\$11,098	\$7,718	\$14,082	\$20,412
<i>Total Revenue</i>	\$11,098	\$7,718	\$14,082	\$20,412
Net Returns	\$2,491	\$2,336	\$7,995	\$7,456
<hr/>				
Cash Rent				
<i>Revenue</i>				
Fixed Cash Rent	\$2,672	\$2,816	\$3,084	\$3,060
Net Returns	\$2,672	\$2,816	\$3,084	\$3,060
<hr/>				
Crop-Share 50/50				
<i>Expenses</i>				
Crop Production	\$3,014	\$1,329	\$1,987	\$4,951
<i>Revenue</i>				
Selling Crop	\$5,549	\$3,859	\$7,041	\$10,206
Net Returns	\$2,536	\$2,531	\$5,054	\$5,255

2015 JOURNAL OF ASFMRA

Table 6. Net Returns - Custom Farming, Cash Rent and Crop-Share (2005-2016) (cont'd.)

Year	2009	2010	2011	2012
Crop	Soybeans	Wheat	Corn	Soybeans
Custom Farming				
<i>Cash Expenses</i>				
Crop Production	\$3,943	\$4,708	\$11,544	\$4,332
Custom Farming	\$3,322	\$2,512	\$3,340	\$3,479
<i>Total Cash Expenses</i>	\$7,265	\$7,220	\$14,885	\$7,811
<i>Revenue</i>				
Selling Crop	\$12,485	\$15,688	\$34,492	\$18,744
<i>Total Revenue</i>	\$12,485	\$15,747	\$34,492	\$18,744
Net Returns	\$5,220	\$8,527	\$19,607	\$10,933
<hr/>				
Cash Rent				
<i>Revenue</i>				
Fixed Cash Rent	\$3,340	\$3,540	\$4,240	\$5,080
Net Returns	\$3,340	\$3,540	\$4,240	\$5,080
<hr/>				
Crop-Share 50/50				
<i>Expenses</i>				
Crop Production	\$1,972	\$2,354	\$5,772	\$2,166
<i>Revenue</i>				
Selling Crop	\$6,243	\$7,844	\$17,246	\$9,372
Net Returns	\$4,271	\$5,490	\$11,474	\$7,206

2015 JOURNAL OF ASFMRA

Table 6. Net Returns - Custom Farming, Cash Rent and Crop-Share (2005-2016) (cont'd.)

Year	2013	2014	2015	2016
Crop	Wheat	Corn	Soybeans	Wheat
<i>Custom Farming</i>				
<i>Cash Expenses</i>				
Crop Production	\$3,414	\$11,259	\$4,625	\$3,952
Custom Farming	\$2,869	\$3,877	\$4,002	\$3,321
<i>Total Cash Expenses</i>	\$6,282	\$15,136	\$8,628	\$7,273
<i>Revenue</i>				
Selling Crop	\$14,040	\$19,856	\$12,390	\$8,944
<i>Total Revenue</i>	\$14,040	\$19,856	\$12,390	\$8,944
Net Returns	\$7,758	\$4,720	\$3,762	\$1,671
<hr/>				
<i>Cash Rent</i>				
<i>Revenue</i>				
Fixed Cash Rent	\$5,920	\$5,920	\$5,920	\$6,000
Net Returns	\$5,920	\$5,920	\$5,920	\$5,920
<hr/>				
<i>Crop-Share 50/50</i>				
<i>Expenses</i>				
Crop Production	\$1,707	\$5,630	\$2,313	\$1,976
<i>Revenue</i>				
Selling Crop	\$7,020	\$9,928	\$6,195	\$4,472
Net Returns	\$5,313	\$4,299	\$3,883	\$2,496

Table 7. Income Variability Analysis

	Minimum Income	Maximum Income	Average Income	Total Income
Custom Farming	\$1,671	\$19,607	\$6,873	\$82,476
Cash Rent	\$2,672	\$5,920	\$4,293	\$51,516
Crop-Share	\$2,496	\$11,474	\$4,984	\$59,808