Kansas Custom Rates 2018



Kansas Department of Agriculture And the Kansas State University Land Use Survey Program





2018

RATES PAID BY KANSAS FARMERS FOR CUSTOM WORK



Kansas Department of Agriculture In Cooperation with Kansas State University Land Use Survey Program

KANSAS CROP REPORTING DISTRICTS

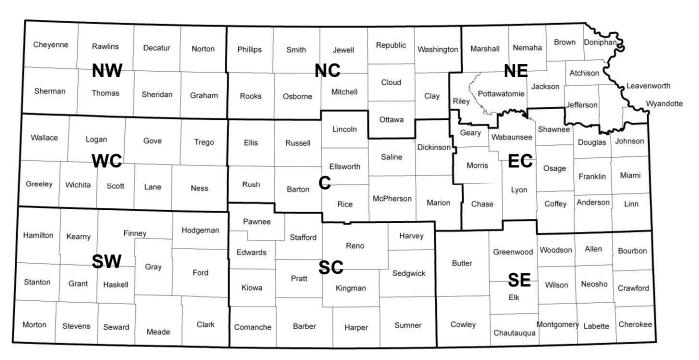


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INTRODUCTION

With the rising cost of machinery and the uncertainty of local workers, custom agricultural work has become a staple for today's farm. This publication reports the average rates for Kansas agricultural custom work in 2018. Previous versions of this survey and report were written and conducted by the National Agricultural Statistics Service-Kansas office (NASS). Since 2016, the survey has been conducted by the Land Use Survey Program (LUSP)¹ in the Department of Agricultural Economics at Kansas State University in conjunction with the Kansas Department of Agriculture (KDA). In 2018, the survey was available online to Kansas custom operators across state.

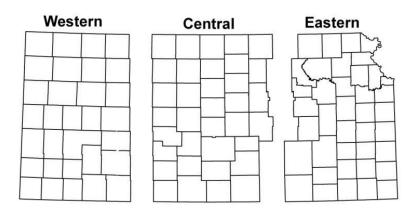
KDA and the LUSP extend a special thanks to Kansas farmers, ranchers, custom operators, co-ops, and elevators for their responses to the 2018 Kansas Farm Custom Rates Survey. We have received many comments about the Custom Rates report from the agricultural community. We appreciate this feedback and encourage readers to continue sharing their ideas and suggestions regarding this survey.

The data in this report provide additional information to Kansas farmers, ranchers, and custom service businesses for decision-making. The prices reported here should not be regarded as official or established rates. The average figures in this report give equal weight to all responses received.

The prices in this report include charges for machinery, power, fuel, and the operator. These prices do not include the costs of chemicals, seeds, and other materials unless otherwise specified. The one exception is hay baling materials. Exchange work between farmers is not considered custom work for the purposes of this report.

There are large variations in the rates charged for specific jobs. For many items, the state averages may not be typical of any particular locale. There are many reasons for price differences. Some farmers may charge lower prices to neighbors, relatives, or close friends. Soil conditions and field sizes are also significant factors. The number of responses may also lead to variation in the rates.

This report contains historical tables and graphs that show the results of previous surveys. Some responses are included in more than one district because custom work was performed in multiple districts. For the purpose of this report, Kansas is classified into three regions: western region, central region, and eastern region, as shown below.



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¹The Land Use Survey Program (LUSP) was formerly known and referenced in previous publications as the Land Use Survey Center (LUSC).

GRAIN HARVESTING

WHEAT: Two methods are commonly used to charge for harvesting grains: a flat rate charge and a base rate with extra charge for high yield. Custom harvesters charged an average base rate of \$22.66 per acre for harvesting wheat in 2018, \$0.51 lower than 2016. In 2018, harvesters charged an average of \$0.227 extra per bushel of wheat for yields greater than 24 bushels per acre. The reported range was larger in 2018 than in 2016. The average flat rate in 2018 for harvesting wheat was \$25.22 per acre, an increase of \$0.55 from \$24.67 per acre in 2016.

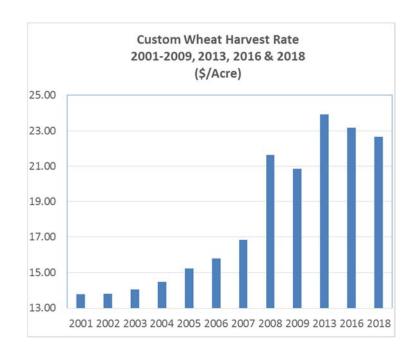
Custom Rates for Wheat Harvest, 2016, by District

	Ba	se Rate w	ith Extra C	harge for H	igh Yield (if a	ny)	Flat Rate Charge		
District	Base Rate (\$/Acre)			Extra Charge for High Yield			Dollar Per Acre		
District	No. of			No. of	Average	Above	No. of		
	Reports	Range	Average	Reports	(\$/Bushel)	Bushels	Reports	Range	Average
NW	15	21-24	22.73	16	0.227	31	4	23-25	24.50
WC	44	19-24	22.52	47	0.225	23	7	23-28	25.29
SW	25	18-24	22.00	25	0.218	24	3	20-21	20.33
NC	9	21-25	23.56	9	0.224	24	13	15-35	24.00
C	21	20-27	23.19	21	0.226	22	8	22-30	24.75
SC	25	8-25	22.28	28	0.248	24	9	20-30	24.22
NE	3	22-25	23.67	3	0.220	27	3	25-35	28.33
EC	1/			1/			9	24-32	26.33
SE	1/			1/			8	25-42	28.54
State	145	8-30	22.66	152	0.227	24	64	15-42	25.22

^{1/} Insufficient number of reports.

Custom Wheat Harvest Historical Rates

Thistorical rates						
	Dollars	Extra Cha High Y	_			
Year	Per Acre	Dollar per	Above			
		Bushel	Bushels			
1993	13.05	0.121	20			
1994	13.03	0.122	21			
1995	13.02	0.122	20			
1996	13.32	0.124	20			
1997	13.33	0.126	21			
1998	13.32	0.126	21			
1999	13.29	0.126	21			
2000	13.68	0.128	21			
2001	13.77	0.131	20			
2002	13.80	0.131	22			
2003	14.04	0.136	23			
2004	14.48	0.136	21			
2005	15.24	0.144	21			
2006	15.78	0.149	21			
2007	16.85	0.160	21			
2008	21.65	0.211	21			
2009	20.86	0.200	22			
2013	23.93	0.227	23			
2016	23.17	0.232	21			
2018	22.66	0.227	24			



GRAIN SORGHUM: Custom harvesters charged an average of \$23.55 per acre for harvesting grain sorghum in 2018, \$0.84 lower than 2016. Frequently, harvesters include an additional charge per bushel to customers with high yields. In 2018 the extra charge was averaged \$0.226 per bushel of grain sorghum for yields greater than 48 bushels per acre. The 2018 flat rate charge per acre was \$26.10, up \$0.43 from 2016.

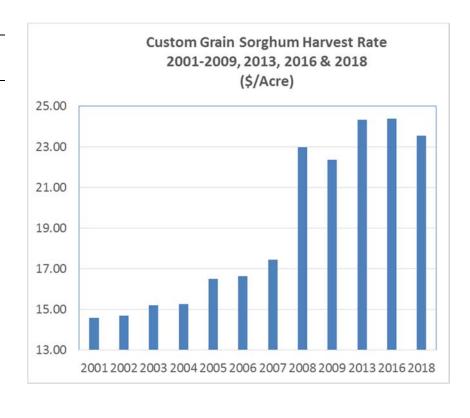
Custom Rates for Grain Sorghum Harvest, 2018, by District

Custom Rates for Gram Borgham Trai vest, 2010, by District										
	Base Rate with Extra Charge for High Yield (if any)							Flat Rate Charge		
District	Base Rate (\$/Acre)			Extra Charge for High Yield			Dollar Per Acre			
District	No. of			No. of	Average	Above	No. of		_	
	Reports	Range	Average	Reports	(\$/Bushel)	Bushels	Reports	Range	Average	
NW	11	22-24	22.82	12	0.222	44	3	21-25	23.67	
WC	36	20-40	24.92	37	0.219	53	3	21-25	23.33	
SW	17	19-40	24.12	17	0.218	47	4	23-40	31.53	
NC	6	22-25	24.00	6	0.220	58	11	18-35	24.09	
C	16	20-25	23.00	16	0.226	40	8	22-28	24.13	
SC	11	8-24	19.45	13	0.265	43	7	20-36	28.29	
NE	3	22-25	23.67	3	0.220	48	1/			
EC	1/			1/			1/			
SE	1/			1/			1/			
State	102	8-40	23.55	106	0.226	48	42	18-40	26.10	

^{1/} Insufficient number of reports.

Custom Grain Sorghum Harvest Historical Rates

	111500	ricai ivates		
Year	Dollars Per	Extra Charge for High Yield		
i eai	Acre	Dollar per	Above	
	71010	Bushel	Bushels	
1993	14.62	0.120	34	
1994	14.27	0.120	35	
1995	14.27	0.119	36	
1996	14.21	0.123	36	
1997	14.35	0.125	37	
1998	14.42	0.124	37	
1999	14.45	0.127	36	
2000	14.64	0.126	34	
2001	14.58	0.129	35	
2002	14.68	0.130	35	
2003	15.19	0.137	35	
2004	15.27	0.135	36	
2005	16.51	0.146	37	
2006	16.64	0.148	36	
2007	17.45	0.159	36	
2008	22.99	0.216	36	
2009	22.37	0.204	35	
2013	24.33	0.230	35	
2016	24.39	0.229	41	
2018	23.55	0.226	48	



CORN: Custom harvesters charged an average of \$29.40 per acre for harvesting corn in 2018, up \$2.51 from 2016 but \$0.62 lower than 2013. The average additional charge to customers with high yields was \$0.217 per bushel of corn for yields greater than 77 bushels per acre; both the charge and high yield were smaller than the 2016 numbers. The 2018 flat rate charge was 32 cents per bushel and \$32.39 per acre.

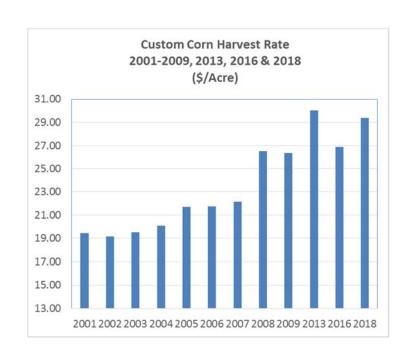
Custom Rates for Corn Harvest, 2018, by District

	Bas	Base Rate with Extra Charge for High Yield (if any)					Flat Rate Charge					
District	Base	e Rate (\$/	Acre)	Extra C	Extra Charge for High Yield		Dollar Per Acre			Dollar Per Bushel		
	No. of			No. of	Average	Above	No. of			No. of		
	Reports	Range	Average	Reports	(\$/Bushel)	Bushels	Reports	Range	Average	Reports	Range	Average
NW	6	22-28	23.50	6	0.218	70	7	23-35	30.29	5	0.23-0.40	0.330
WC	14	21-35	26.00	14	0.229	61	4	8-30	23.25	20	0.24-0.46	0.304
SW	1/			1/			2	34-40	37.00	15	0.12-0.37	0.317
NC	5	24-35	29.60	5	0.204	90	11	18-43	29.09	-	-	-
C	6	24-30	28.33	4	0.228	56	2	24-28	26.00	7	0.28-0.39	0.321
SC	7	10-80	40.71	6	0.283	93	9	20-80	44.22	17	0.10-0.47	0.334
NE	5	30-36	31.20	5	0.120	104	23	25-43	33.04	-	-	-
EC	1/			3	0.183	105	11	27-36	31.09	-	-	-
SE	-	-	-	-	-	-	5	25-35	29.20	1/		
State	47	10-80	29.40	45	0.217	_ 77	74	8-80	32.39	65	0.10-0.47	0.319

^{1/} Insufficient number of reports

Custom Corn Harvest Historical Rates

	D 11	Extra Cha	arge for	Flat Rate
V	Dollars	High Y	Yield	Charge
Year	Per Acre	Dollar per	Above	Dollar per
	Acie	Bushel	Bushels	Bushel
1993	18.21	0.118	58	0.21
1994	18.23	0.101	65	0.22
1995	17.79	0.124	62	0.21
1996	18.77	0.126	63	0.23
1997	18.72	0.123	66	0.23
1998	18.96	0.127	59	0.23
1999	19.28	0.120	70	0.24
2000	19.23	0.147	66	0.23
2001	19.43	0.119	48	0.23
2002	19.15	0.148	87	0.24
2003	19.50	0.143	69	0.24
2004	20.09	0.143	76	0.24
2005	21.68	0.142	76	0.26
2006	21.75	0.150	74	0.27
2007	22.14	0.164	71	0.29
2008	26.51	0.203	68	0.32
2009	26.35	0.192	73	0.29
2013	30.02	0.217	71	0.36
2016	26.89	0.240	80	0.35
2018	29.40	0.217	77	0.32



SOYBEANS: Custom harvesters charged an average of \$25.56 per acre for harvesting soybeans in 2018, down \$1.02 from 2016. The average additional charge per bushel to customers with yields in excess of 29 bushels per acre in 2018 was 23.3 cents per bushel. The average flat rate charge was \$30.22 per acre, up \$1.05 from 2016.

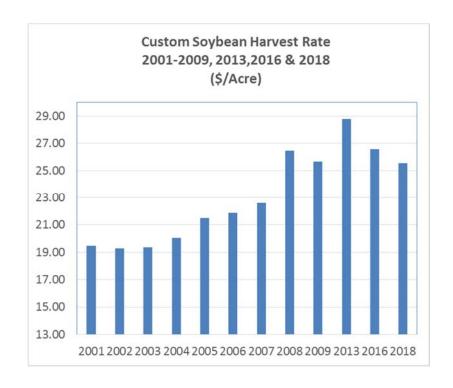
Custom Rates for Soybean Harvest, 2018, by District

	Base	Rate wit	h Extra Ch	arge for H	igh Yield (if	any)	Flat Rate Charge			
District	Base Rate (\$/Acre)			Extra Charge for High Yield			Dollar Per Acre			
District	No. of			No. of	Average	Above	No. of			
	Reports	Range	Average	Reports	(\$/Bushel)	Bushels	Reports	Range	Average	
NW	1/			1/			4	32-35	34.25	
WC	7	21-25	23.57	7	0.229	30	-	-	-	
SW	6	21-30	27.00	4	0.225	24	3	32-38	35.67	
NC	6	24-30	26.67	6	0.217	26	14	16-36	26.71	
C	10	23-30	26.40	9	0.239	24	10	24-37	27.20	
SC	11	10-35	24.27	9	0.261	33	25	20-40	31.96	
NE	1/			1/			26	25-41	31.88	
EC	1/			1/			14	23-34	28.13	
SE	1/			1/			9	22-41	29.03	
State	45	10-35	25.56	40	0.233	29	105	16-41	30.22	

^{1/} Insufficient number of reports.

Custom Soybean Harvest Historical Rates

Rates						
Year	Dollars	Extra Cha High Y	-			
rear	Per Acre	Dollar per	Above			
	Acie	Bushel	Bushels			
1993	17.96	0.125	23			
1994	18.15	0.122	25			
1995	17.65	0.122	25			
1996	18.54	0.127	24			
1997	18.68	0.124	26			
1998	18.85	0.128	27			
1999	18.69	0.130	25			
2000	19.15	0.125	25			
2001	19.48	0.127	24			
2002	19.29	0.134	28			
2003	19.35	0.133	26			
2004	20.06	0.135	26			
2005	21.48	0.143	26			
2006	21.88	0.172	27			
2007	22.61	0.158	28			
2008	26.47	0.206	26			
2009	25.66	0.198	27			
2013	28.78	0.232	27			
2016	26.58	0.233	28			
2018	25.56	0.233	29			



SUNFLOWER: Custom harvesters charged an average of \$36.55 per acre for harvesting sunflowers in 2018, down \$2.25 from 2016. Too few base rate charges with extra charge for high yields were reported to be able to publish this year.

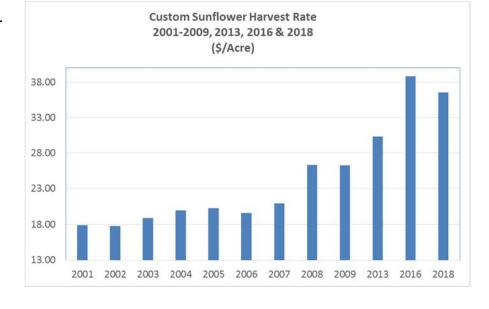
Custom Rates for Sunflower Harvest, 2018, by Region

		Flat Rate Charge	
Region		Dollar Per Acre	
	No. of Reports	Range	Average
Western	10	30-45	37.20
Central	1/		
Eastern	-		
State	11	30-45	36.55

^{1/} Insufficient number of reports.

Custom Sunflower Harvest Historical Rates

Historical Rates							
Year	Dollars	Extra Charge for High Yield					
i ear	Per Acre	Dollar per	Above				
	Acic	Bushel	Bushels				
1997	17.69	0.116	5.8				
1998	16.94	0.119	11.8				
1999	18.35	0.120	10.8				
2000	16.33	0.127	9.6				
2001	17.93	0.138	8.3				
2002	17.80	0.131	6.7				
2003	18.90	0.137	6.4				
2004	19.95	0.203	7.4				
2005	20.24	0.197	7.2				
2006	19.55	0.213	12				
2007	20.88	0.198	14				
2008	26.28	0.265	18				
2009	26.26	0.274	19				
2013	30.33	1/	1/				
2016	38.80	1/	1/				
2018	36.55	1/	1/				



^{1/} Insufficient number of reports.

SEED CLEANING

Rates for seed cleaning are higher with treatment than without treatment. Wheat seed cleaning with treatment averaged \$2.55 per bushel, a decrease of \$0.62 from 2016. Rates for cleaning wheat without treatment averaged \$1.10 per bushel, 42 cents higher than in 2016. The average cost of cleaning other seeds in 2018 was not reported here because of small number of responses received.

Custom Rates for Wheat Seed Cleaning (\$/Bushel), 2018, by District

District	W	ith Treatment			thout Treatment	
District	No. of Reports	Range	Average	No. of Reports	Range	Average
NW	3	1.00-6.65	4.77	5	0.50-0.90	0.64
WC	8	0.60-7.50	3.21	9	0.45-3.50	1.29
SW	1/			3	0.60-0.75	0.65
NC	10	1.00-6.00	2.99	6	0.75-1.00	0.83
C	7	0.24-3.85	1.16	9	0.40-1.00	0.67
SC	8	0.50-3.85	1.23	11	0.45-1.50	0.73
NE	-	-	-	-	-	-
EC	4	4.00-4.00	4.00	4	4.00-4.00	4.00
SE	-	-	-	-	_	-
State	41	0.24-7.50	2.55	47	0.40-4.00	1.10

^{1/} Insufficient number of reports.

Historical Custom Rates for Wheat Seed Cleaning (\$/Bushel)

Year	With Treatment	Without Treatment
2003	0.90	0.48
2004	0.82	0.47
2005	0.98	0.48
2006	1.14	0.51
2007	1.07	0.54
2008	1.45	0.60
2009	1.36	0.58
2013	2.87	0.73
2016	3.17	0.68
2018	2.55	1.10

GRAIN HAULING

Rates for hauling grains from the field to the farm or to the nearest elevator in 2018 were lower, with a shorter maximum distance, and higher extra charge, compared to the rates in 2016. The average base rate charged for hauling wheat, grain sorghum, corn, and soybeans was 18.7 cents per bushel, with an extra charge of 6.4 cents per bushel per mile over 18 miles. The 2016 average custom rates were 20.2 cents per bushel plus 5.4 cents per bushel per mile over 28 miles. The average rate for hauling sunflower was \$0.216 per bushel, down \$0.138 from 2016.

Custom Rates for Hauling Grain from Field to Farm Storage or Elevator, 2018, by District

	ustom Ka	tes for maun	ing Grain	from Field to Fa	rm Stora	ge or Lievau	ur, 2010,	by District		
				Extra Charge				Extra Charge		
	No. of	Hauling	Mile	for Longer	No. of	Hauling	Mile	for Longer		
	Reports	Charge	Limits	Distances	Reports	Charge	Limits	Distances		
District		(\$/Bushel)	(Miles)	(\$/Bushel/Mile)		(\$/Bushel)	(Miles)	(\$/Bushel/Mile)		
		•	Wheat		Grain Sorghum					
NW	13	0.208	20	1/	9	0.184	13	1/		
WC	39	0.220	17	0.011	32	0.219	19	0.040		
SW	14	0.192	17	0.030	11	0.189	18	0.085		
NC	13	0.177	19	0.088	8	0.174	12	0.108		
C	23	0.180	19	0.010	20	0.180	17	0.012		
SC	24	0.208	17	0.048	15	0.187	15	0.043		
NE	5	0.168	13	1/	4	0.165	13	1/		
EC	6	0.175	23	1/	1/	1/	1/	1/		
SE	5	0.242	23	0.045	3	0.237	23	0.045		
State	142	0.201	18	0.046	103	0.194	17	0.059		
			Corn		Soybeans					
NW	14	0.188	23	1/	4	0.173	1/	-		
WC	31	0.192	18	0.038	6	0.230	19	0.015		
SW	8	0.154	30	1/	6	0.195	20	-		
NC	9	0.167	12	0.105	10	0.162	16	0.140		
C	13	0.154	19	0.008	18	0.178	23	0.013		
SC	22	0.132	16	0.049	22	0.194	13	0.034		
NE	12	0.142	19	0.200	12	0.144	19	0.200		
EC	7	0.157	16	1/	11	0.172	14	1/		
SE	5	0.224	27	1/	7	0.251	30	0.045		
State	121	0.166	19	0.077	96	0.184	18	0.085		

^{1/} Insufficient number of reports.

Custom Rates for Hauling Sunflower

Stata	No. of	Hauling Charge	Mile Limits	Extra Charge for Longer Distances
State Reports	(\$/Bushel)	(Miles)	(\$ Per Bushel Per Mile)	
2013	17	0.357	17	0.160
2016	12	0.354	50	0.010
2018	4	0.216	1/	1/

^{1/} Insufficient number of reports.

SILAGE OPERATIONS

Custom rates for silage operations were separated into four categories: 1) chopping, hauling, and filling the silo, 2) chopping and hauling, 3) chopping only, and 4) hauling only. The average rate per ton for the complete silage operation was \$11.56 per ton, up from \$8.83 in 2016. Operations which included only chopping and hauling averaged \$8.48 per ton, down \$0.66 from 2016. Chopping averaged \$5.77 per ton, down \$1.39 from 2016, and hauling averaged \$2.14 per ton, down \$1.27 from 2016.

Custom Rates for Silage Operations, 2018, by Region

	Chopping	g, Hauling & Fi	illing Silo	Chopping & Hauling			
Region	No. of	Dollars	Dollars per Ton		Dollars per Ton		
	Reports	Range	Average	Reports	Range	Average	
Western	6	8.50-11.00	9.38	18	7.00-8.75	7.51	
Central	11	5.00-20.00	12.91	8	6.25-15.00	10.38	
Eastern	3	6.50-15.00	11.00	7	8.00-10.00	8.79	
State	20	5.00-20.00	11.56	33	6.25-15.00	8.48	

Custom Rates for Silage Operations, 2018, by Region

		Chopping Only	7	Hauling			
Region	No. of	Dollars j	Dollars per Ton		Dollars	per Ton	
	Reports	Range	Average	Reports	Range	Average	
Western	24	3.75-7.00	5.09	24	0.25-3.40	2.13	
Central	6	4.85-10.00	8.14	1/			
Eastern	3	6.00- 7.50	6.50	1/			
State	33	3.75-10.00	5.77	27	0.25-6.00	2.14	

^{1/} Insufficient number of reports.

HAYING

The average custom rate for mowing or swathing hay was \$13.98 per acre in 2018, up \$0.23 from 2016. The rate for mowing or swathing forage was slightly higher than hay, averaging \$14.50 per acre, down \$1.02 from 2016. Mowing or swathing with conditioning averaged \$14.10 per acre in 2018, compared to \$13.46 in 2016. The charge for side raking averaged \$4.53 per acre, down 12 cents from 2016.

Custom Rates for Mowing or Swathing, 2018, by District

		Hay		Forage			
District	Number of	Dollars pe	er Acre	Number of	Number of Dollars per A		
	Reports	Range	Average	Reports	Range	Average	
NW	-	-	_	-	-	-	
WC	7	11.00-15.00	13.29	3	13.00-19.00	15.67	
SW	3	14.00-15.00	14.33	-	-	-	
NC	9	10.00-15.00	12.33	5	11.00-19.00	13.20	
C	11	12.00-16.00	14.09	9	12.00-19.00	14.89	
SC	17	7.00-20.00	14.12	9	8.00-20.00	15.33	
NE	10	10.00-20.00	14.00	-	-	-	
EC	7	12.00-35.00	15.79	5	12.00-15.00	12.90	
SE	3	13.42-17.00	14.81	-	-	-	
State	67	7.00-35.00	13.98	31	8.00-20.00	14.50	

Custom Rates for Swathing & Conditioning and Side Raking, 2018, by District

		ing and Conditio		Side Raking			
District	Number of	Dollars pe	er Acre	Number of	Dollars p	er Acre	
District	Reports	Range	Average	Reports	Range	Average	
NW	-	-	-	-	-	-	
WC	4	13.00-15.00	14.25	6	2.00-6.50	3.92	
SW	4	13.00-24.00	18.50	4	5.00-5.00	5.00	
NC	8	11.00-15.00	12.75	9	2.50-7.00	5.06	
C	15	12.00-16.00	14.50	15	2.50-6.50	4.30	
SC	11	7.00-20.00	14.00	8	2.00-8.00	4.50	
NE	1/			1/			
EC	6	11.00-15.00	12.58	3	2.50-10.00	5.67	
SE	-	-	-	1/			
State	49	7.00-24.00	14.10	48	2.00-10.00	4.53	

^{1/} Insufficient number of reports.

HAYING (Continued)

The custom rates for baling small square bales in 2018 were higher than the 2016 averages and around the 2013 averages. Custom baling of small square bales with wire cost an average of \$1.16 per bale, while baling with twine averaged \$1.26 per bale in 2018. Large round bales weighing less than 1500 pounds, without net wrapping, cost an average of \$11.86 per bale; bales of the same size with net wrapping cost an average of \$12.15 per bale. Large round bales weighing over 1500 pounds without net wrapping cost an average of \$11.50 per bale; wrapped bales of the same size cost an average of \$12.39 per bale. The charge for large square bales weighing about one ton averaged \$13.29 per bale, down \$1.09 from 2016.

Custom Rates for Baling Hay (\$/Bale)

			2018			2016	
Type of Bale		# of Reports	Range	Average	# of Reports	Range	Average
Small Bales, Square	With wire	15	0.50-2.00	1.16	13	0.50-2.00	0.93
Sman Baies, Square	With twine	11	1.00-2.00	1.26	9	0.50-1.35	0.89
Large Round Bales	Without net	10	10.00-15.00	11.86	34	7.00-17.50	11.73
under 1,500 pounds	With net	48	4.50-17.00	12.15	9	8.00-18.00	11.78
Large Round Bales	Without net	6	10.00-14.00	11.50	24	10.00-17.00	13.96
over 1,500 pounds	With net	57	8.00-17.00	12.39	4	13.00-15.00	14.00
Large Square Bales a	bout 1 ton	21	8.00-17.00	13.29	12	8.00-18.00	14.38

Custom Rates for Baling, Square Bales, 2018, by Region

	Small	Square witl	h Wire		Square with	Twine	Large Square		
Region	No. of	of Dollars per Bale		No. of Dollars per Bale			No. of	Dollars per Bale	
	Reports	Range	Average	Reports	Range	Average	Reports	Range	Average
Western	-	-	-	5	1.00-1.44	1.18	5	12.00-14.00	13.40
Central	10	1.00-1.50	1.27	6	1.00-2.00	1.33	12	13.00-17.00	14.58
Eastern	5	0.50-2.00	0.94	-	-	-	4	9.00-10.00	9.25
State	15	0.50-2.00	1.16	11	1.00-2.00	1.26	21	8.00-17.00	13.29

Custom Rates for Baling, Large Round Bales, 2018, by Region

					8,	8		35, =010, 25				custom rates for Europe Paris, 2010, 8, 110gram										
			Wit	h Net			Without Net															
D	Under 1500 lbs.			Over 1500 lbs.			Under 1500 lbs.			Over 1500 lbs.												
Region	No. of	Dollars per	Bale	No. of	No. of Dollars per Bale		No. of	Dollars per Bale		No. of Dollars per Bal		Bale										
	Reports	Range	Avg.	Reports	Range	Avg.	Reports	Range	Avg.	Reports	Range	Avg.										
Western	9	10.00-17.00	12.89	6	10.00-15.00	13.17	1/			-	-	-										
Central	23	10.50-16.00	12.83	36	8.00-17.00	12.83	3	10.50-13.00	12.11	-	-	-										
Eastern	16	4.50-17.00	11.83	15	10.00-14.00	11.03	6	10.00-15.00	10.93	6	10.00-14.00	11.50										
State	48	4.50-17.00	12.15	57	10.00-14.00	12.39	10	10.00-15.00	11.86	6	10.00-14.00	11.50										

^{1/} Insufficient number of reports.

HAYING (Continued)

Custom rates for hauling small bales from the field to farm storage averaged 83 cents per bale in 2018, down 10 cents from 2016. The cost of hauling large square bales averaged of \$3.38 per bale in 2018. Rates for hauling large round bales averaged \$3.84 per bale or \$5.50 per ton in 2018. There were too few reports for hay stacking to provide a reasonable indication of current rates; therefore, the table has been removed.

Custom Rates for Hauling Square Bales from Field to Storage, 2018, by Region

	Ç	Small Bales		Large Square Bales			
Region	Number of	r of Dollars per Bale		Number of Dollars		per Bale	
	Reports	Range	Average	Reports	Range	Average	
Western	-	-	-	1/			
Central	1/			1/			
Eastern	1/			1/			
State	3	0.50-1.00	0.83	4	2.50-4.00	3.38	

^{1/} Insufficient number of reports.

Custom Rates for Hauling Large Round Bales from Field to Storage, 2018, by Region

	Large Round Bales											
Region	Number of	Dollars per Bale		Number of	Dollars p	er Ton						
	Reports	Range	Average	Reports	Range	Average						
Western	4	3.00-4.00	3.50	-	-	-						
Central	6	2.25-5.00	3.88	1/								
Eastern	1/			3	5.00-7.50	5.83						
State	11	2.25-5.00	3.84	5	5.00-7.50	5.50						

^{1/} Insufficient number of reports.

The custom rates for the entire haying operation include cutting, conditioning, raking, baling, hauling, and stacking. The average rate for large bales was \$21.35 per bale in 2018, down \$2.61 per bale from 2016. The average rate for small bales was \$1.91 per bale, up 7 cents from 2013. The 2016 rate for entire small bales haying operation was not available.

Custom Rates for Entire Haying Operation, 2018, by Region

		Small Bales		Large Round Bales			
Region	Number of	Dollars p	Dollars per Bale		Dollars	per Bale	
	Reports	Range	Average	Reports	Range	Average	
Western	-	-	-	-	-	-	
Central	1/			1/			
Eastern	7	1.25-2.20	1.84	9	13.00-30.00	21.06	
State	8	1.25-2.40	1.91	10	13.00-30.00	21.35	

^{1/} Insufficient number of reports.

ROTARY MOWING AND TREE SHEARING

The custom rate for rotary mowing averaged \$10.67 per acre or \$70.00 per hour in 2018. In 2016, charges were \$12.22 per acre or \$63.68 per hour. The average custom rate for tree shearing was \$91.67 per hour for 2018, up \$12.55 from 2016.

Custom Rates for Rotary Mowing and Tree Shearing, 2018, by District

		Custom Huce		Mowing	ig and Tree Sh		T *	Loader Tree Shea	ring
District		Dollar per Acre	•	Wiowing	Dollar per Hour			Dollar per Hour	img
District	No. of Reports	Range	Avg.	No. of Reports	Range	Avg.	No. of Reports	Range	Avg.
NW	-	-	-	-	-	-	-	-	-
WC	1/			1/			1/		
SW	1/			-	-	-	-	-	-
NC	-	-	-	1/			9	60.00-100.00	81.11
C	6	6.00-15.00	11.50	5	50.00-60.00	56.00	3	90.00-150.00	116.67
SC	4	6.00-12.00	9.50	3	60.00-60.00	60.00	3	90.00-150.00	116.67
NE	-	-	-	3	40.00-150.00	91.67	6	80.00-100.00	86.67
EC	-	-	-	1/			1/		
SE	_	-	_	-	-	-	3	90.00-110.00	103.33
State	12	6.00-15.00	10.67	15	40.00-150.00	70.00	27	60.00-150.00	91.67

^{1/} Insufficient number of reports.

Custom Rates for Rotary Mowing and Tree Shearing, 2018, by Region

			Rotary	Mowing			Skid Loader Tree Shearing			
Region	D	ollar per Acre		I	Dollar per Hour			Dollar per Hour		
region	No. of			No. of			No. of			
	Reports	Range	Avg.	Reports	Range	Avg.	Reports	Range	Avg.	
Western	1/			1/			1/	-	-	
Central	10	6.00-15.00	10.70	10	50.00-60.00	63.00	15	60.00-150.00	95.33	
Eastern	-	-	-	4	40.00-150.00	90.00	11	80.00-110.00	89.55	
State	12	6.00-15.00	10.67	15	40.00-150.00	70.00	27	60.00-150.00	91.67	

^{1/} Insufficient number of reports.

LAND TILLAGE

Custom rates for tillage operations vary depending on many factors, including location, type of soil tillage practice, size of fields, and the size of equipment. The average charge for disking (including one-way disking), was \$11.85 per acre in 2018, down \$0.35 from 2016. The average offset disking charge of \$13.25 per acre in 2018 was up \$0.65 from the 2016 rate. Tandem disking averaged \$11.70 per acre in 2018.

Custom Rates for Disking, 2018, by District

		Disking			Offset Disk	•	T	andem Disking	,
District		Dollar per Acre	!		Dollar per Acre		Γ	Oollar per Acre	
	No. of	_		No. of	_		No. of	_	
	Reports	Range	Avg.	Reports	Range	Avg.	Reports	Range	Avg.
NW	4	10.00-12.00	11.50	-	-	-	1/		
WC	16	8.00-15.50	11.56	3	8.00-11.00	9.00	6	8.00-14.00	10.00
SW	8	9.00-20.00	14.69	1/			6	8.00-20.00	13.50
NC	1/			1/			-	-	-
C	6	8.00-11.00	9.50	4	11.00-14.00	12.50	5	8.00-11.00	9.80
SC	8	5.00-12.00	10.50	3	11.00-15.00	13.67	6	8.00-12.00	10.50
NE	3	12.00-12.00	12.00	-	-	-	1/		
EC	5	12.00-14.62	12.92	1/			1/		
SE	6	10.00-16.00	12.19	-	-	-	1/		
State	58	5.00-20.00	11.85	14	8.00-20.00	13.25	30	8.00-20.00	11.70

^{1/} Insufficient number of reports.

The average custom rate for chiseling, 4-12 inches, was \$13.79 per acre in 2018, down 0.16 from 2016. The charge for deep chiseling, over 12 inches, averaged \$17.78 per acre in 2018, an increase of \$4.28 from 2016.

Custom Rates for Chiseling (\$/Acre), 2018, by District

		Chisel (4-12")		De	ep chisel (Over 12	2")
District	Number of	Dollars pe	er Acre	Number of	Dollars pe	er Acre
District	Reports	Range	Average	Reports	Range	Average
NW	-	-	-	1/		
WC	9	9.00-17.00	12.33	6	10.00-12.00	11.50
SW	6	9.00-17.00	12.83	1/		
NC	-	-	-	-	-	-
C	4	10.00-12.00	11.00	7	10.00-18.00	13.86
SC	11	6.00-23.00	15.64	9	12.00-40.00	26.00
NE	-	-	-	-	-	-
EC	1/			1/		
SE	1/			1/		
State	33	6.00-23.00	13.79	27	10.00-40.00	17.78

^{1/} Insufficient number of reports.

LAND TILLAGE (Continued)

The charges for strip tillage averaged \$16.56 per acre in 2018, down \$0.51 from 2016. Deep strip tillage, over 6", averaged \$19.38 per acre. The average rate for shallow, high speed vertical tillage, 2-4", was \$13.25 per acre in 2018, comparable to \$13.33 per acre in 2016. Custom subsoiling/in-line ripping, about 30 HP per shank, averaged \$18.24 per acre in 2018, unchanged from the 2016 average.

Custom Rates for Strip and Vertical Tillage, 2018, by District

		e distoin 1	101	strp and	vertical rimag	c, =010, 8 ₀	District			
		Strip Tillage		Deep Str	rip Tillage (over	6" deep)	Vertical Tillagehigh speed, shallow (2-4")			
District		Dollar per Acre			Dollar per Acre		Γ	Oollar per Acre		
	No. of			No. of			No. of			
	Reports	Range	Avg.	Reports	Range	Avg.	Reports	Range	Avg.	
NW	1/			-	-	-	1/			
WC	11	10.00-21.00	16.45	8	14.00-20.00	18.00	11	8.00-15.00	12.55	
SW	4	10.00-23.00	17.25	8	18.00-23.00	20.00	10	8.00-20.00	14.50	
NC	1/			-	-	-	9	6.00-15.00	11.28	
C	3	16.00-16.00	16.00	1/			4	12.00-14.00	12.50	
SC	9	10.00-20.00	15.33	7	16.00-25.00	20.86	12	8.00-20.00	13.50	
NE	1/			-	-	-	3	8.00-18.00	13.67	
EC	3	17.00-20.00	18.33	1/			1/			
SE	-	-	-	-	-	-	1/			
State	34	10.00-23.00	16.56	26	14.00-35.00	19.38	55	6.00-20.00	13.25	

^{1/} Insufficient number of reports.

Custom Rates for Subsoiler/In-line Ripper (about 30 HP per shank), 2018, by Region

District	No. of Reports	Range	Avg. (\$/Acre)
Western	5	12.00-36.00	24.20
Central	17	8.00-25.00	15.94
Eastern	3	18.00-23.00	21.33
State	25	8.00-36.00	18.24

LAND TILLAGE (Continued)

The custom rate for field cultivators, 5 HP per linear foot of implement, averaged \$10.37 per acre in 2018, down \$1.41 from 2016. The average rate for undercutting operations with large V blade was \$11.05 per acre, down \$0.08 from 2016. The average rate for shallow undercutting operations in 2018 was \$10.39 per acre.

Custom Rates for Cultivation and Undercutting, 2018, by District

		ultivator (5 HP poot of implemen	er linear	(Shalle	Undercutter ow, e.g. Fallow	Mater)		Undercutter Large "V" Blade	e)
District		Dollar per Acre	;		Dollar per Acre	,	Ì	Dollar per Acre	
	No. of Reports	Range	Avg.	No. of Reports	Range	Avg.	No. of Reports	Range	Avg.
NW	-	-	-	4	6.50-12.00	9.25	4	6.50-12.00	9.25
WC	5	8.00-9.00	8.40	17	7.00-15.00	9.94	19	7.00-15.00	10.58
SW	1/			3	9.00-15.00	11.50	10	8.00-20.00	12.85
NC	3	12.00-12.50	12.17	-	-	-	-	-	-
C	9	7.50-11.00	9.33	1/			4	9.00-12.00	10.50
SC	3	9.00-10.00	9.67	9	9.00-15.00	11.67	10	8.00-15.00	11.10
NE	3	10.00-14.00	12.00	-	-	-	-	-	-
EC	5	10.00-15.00	13.20	-	-	-	-	-	-
SE	1/			-	-	-	-	-	-
State	31	7.50-15.00	10.37	35	6.50-15.00	10.39	47	6.50-20.00	11.05

^{1/} Insufficient number of reports.

In 2018, charges for spiketooth harrowing averaged \$7.63 per acre, a decrease of \$0.60 per acre from 2016. The average for springtooth harrowing in 2018 was \$9.17 per acre, an increase of \$0.92 per acre from 2013. The 2016 rate was unavailable.

Custom Rates for Harrowing, 2018, by Region

	S	piketooth Harrow			Springtooth		
Region		Dollar per Acre		Dollar per Hour			
region	No. of			No. of			
	Reports	Range	Avg.	Reports	Range	Avg.	
Western	1/			-	-	-	
Central	3	5.00-5.00	5.00	3	5.00-5.00	5.00	
Eastern	3	8.00-10.00	8.67	3	8.00-16.00	13.33	
State	8	5.00-10.00	7.63	6	5.00-16.00	9.17	

^{1/} Insufficient number of reports.

LAND TILLAGE (Continued)

In 2018, custom rates for finisher and rotary hoe were included in the survey. The charges for finishing and packing for seed bed operation average \$14.38 per acre in 2018. The average rate for rotary hoeing was \$9.14 per acre.

Custom Rates for Finishing and Rotary Hoe, 2018, by Region

	Finisher (F	inish & Pack for S	Seed Bed)		Rotary Hoe	
Region		Dollar per Acre			Dollar per Acre	
region	No. of			No. of		
	Reports	Range	Avg.	Reports	Range	Avg.
Western	5	15.00-22.00	17.80	1/	-	8.00
Central	7	10.00-14.00	12.57	6	8.00-12.00	9.33
Eastern	1/			1/		
State	13	10.00-22.00	14.38	7	8.00-12.00	9.14

^{1/} Insufficient number of reports.

Custom Rates for Land Tillage, Historical Averages (\$/Acre)

Type of Operation	2001	2002	2003	2004	2005	2006	2007	2008	2009	2013	2016	2018
Disking	6.48	6.34	6.42	6.84	7.54	7.79	7.93	9.02	9.06	11.31	12.20	11.85
One-Way Disk	6.21	6.11	6.50	7.22	6.66	8.00	8.06	9.00	-	-	-	-
Offset Disk	6.54	6.72	7.02	7.01	7.76	8.53	8.37	9.56	9.52	10.98	12.60	13.25
Spiketooth Harrow	4.80	4.82	5.33	5.25	5.31	5.88	6.68	6.71	7.30	8.82	8.33	7.63
Springtooth Harrow	5.20	4.03	4.17	4.88	5.75	5.58	5.83	6.42	8.40	8.25	1/	9.17
Chisel (4-12")	7.79	7.61	8.02	7.96	8.45	9.10	9.75	11.19	10.06	12.71	13.95	13.79
Deep Chisel (Over 12")	9.54	10.33	8.94	10.05	10.85	11.88	11.46	15.81	13.70	15.88	13.50	17.78
Moldboard Plow	8.98	9.45	9.98	11.63	11.36	11.04	10.64	15.41	14.00	14.13	17.50	18.17
Undercutter (large V												
Blade)	5.38	5.38	5.47	5.58	6.07	6.43	6.66	7.73	7.42	9.34	11.13	11.05
Shank Cultivator	5.92	6.16	6.18	6.27	7.13	7.37	7.25	8.95	8.84	10.40	-	-
Wheel Springtooth												
Cultivator	5.36	5.67	5.27	6.00	5.75	7.02	7.56	6.93	7.43	8.25	-	-
Field Cultivator (5 HP												
per linear foot of												
implement)	-	-	-	-	-	-	-	-	-	-	11.78	10.37
Subsoiler/In-line ripper												
(about 30 HP per shank)	-	-	-	-	-	-	-	-	-	-	18.24	18.24
Strip Tillage	-	-	-	-	-	-	-	-	-	-	17.07	16.56
Deep Strip Tillage	-	-	-	-	-	-	-	-	-	-	-	19.38
Vertical Tillage	-	-	-	-	-	-	-	-	-	-	13.33	13.25
Finisher	-	-	-	-	-	-	-	-	-	-	-	14.38
Rotary Hoe	-	-	-	-	-	-	-	-	-	-	-	9.14

^{1/} Insufficient number of reports. Disking and One-Way Disking were combined beginning in 2009. Subsoiler/In-line ripper, Strip Tillage and Vertical Tillage were added from the 2016 Survey. Finisher and Rotary Hoe were added from the 2018 Survey.

PLANTING

Regular-Till

As suggested by respondents, custom rates for planting crops were separated into four categories in 2018: planting without fertilizer & chemical application, planting with only fertilizer application, planting with only chemical application, and planting with fertilizer & chemical application. Planting rates for the latter two categories were not reported here because the number of responses was too small.

Small grain seeding charges without fertilizer and chemical application in 2018 averaged \$14.25 per acre. Charges for planting grain sorghum averaged \$15.49 per acre in 2018. The average price charged for row planting corn was \$15.59 per acre. Soybean planting charges averaged \$16.78 per acre for row planting, \$16.25 for drilling, and \$20.00 for twin-row planting in 2018.

Custom Rates for Regular-Till Planting (\$/Acre), 2018, by District without Fertilizer & Chemical Application

No. of Reports No. of Reports District Range Average Range Average **Small Grain Drilling Grain Sorghum- Row Planting** NW 6 10.00-15.00 12.83 WC 19 8.00-17.50 13.76 27 9.00-17.50 15.24 7 SW11 10.00-20.00 15.41 15.50-17.50 16.36 1/ 1/ NC 9 \mathbf{C} 13.00-18.00 15.33 5 15.00-17.00 15.40 SC 5.00-20.00 13.30 9 10.00-20.00 10 16.00 1/ NE 1/ EC 3 12.00-18.00 15.67 1/ 4 SE 12.00 10.00-14.00 64 5.00-20.00 14.25 53 9.00-20.00 15.49 State **Corn-Row Planting Soybeans-Row Planting** 14.00-17.00 NW 3 15.67 30 3 WC 10.00-18.00 15.43 18.00-18.00 18.00 SW4 7 16.00-18.00 17.07 16.00-18.00 16.88 1/ 1/ NC \mathbf{C} 4 16.75 4 17.00-17.50 17.38 16.00-18.00 SC 9 10 10.00-20.00 16.30 10.00-20.00 16.06 NE 5 15.00-15.00 15.00 6 15.00-25.00 17.16 4 15.00-22.00 4 16.85 EC 18.00 16.00-18.00 1/ 1/ SE State 66 10.00-22.00 15.95 32 10.00-25.00 16.78 **Soybeans-Drilling Soybeans-Twin Row Planting** NW 3 WC 18.00-18.00 18.00 SW 4 16.75 16.00-18.00 1/ 1/ NC 1/ C SC 5 10.00-20.00 15.00 1/ 1/ NE 1/ 1/ EC 1/ SE 16.25 4 15.00-25.00 20.00 State 20 10.00-20.00

¹/ Insufficient number of reports.

Regular-Till

The custom rates for planting small grains, grain sorghum, corn, and soybeans with fertilizer were higher than the corresponding planting rates without fertilizer and chemical application. The average rates in 2018 for small grain drilling, grain sorghum row planting, corn row planting, soybeans row plaint, soybeans drilling, and cotton single row planting with fertilizer application were \$15.72, \$17.60, \$17.85, \$17.79, \$17.12, and \$19.33, respectively.

Custom Rates for Regular-Till Planting (\$/Acre), 2018, by District

With Fertilizer Application

	T	· · · · · · · · · · · · · · · · · · ·	I CI CIIIZCI 11	ppneation		
District	No. of Reports	Range	Average	No. of Reports	Range	Average
	Small	Grain Drilling	:	Grain So	orghum- Row Pla	nting
NW	-	-	-	-	-	-
WC	14	12.00-18.50	15.82	22	14.00-19.00	17.61
SW	8	12.50-19.00	16.75	7	17.50-19.00	18.21
NC	-	-	-	-	-	-
C	10	15.00-18.00	16.15	5	17.50-18.00	17.70
SC	11	10.00-22.00	14.32	8	12.00-22.00	16.94
NE	-	-	-	-	-	-
EC	1/			-	-	-
SE	-	-	-	-	-	-
State	44	10.00-22.00	15.72	42	12.00-22.00	17.60
	Corn	-Row Planting			eans-Row Plantin	ıg
NW	1/			1/		
WC	26	14.00-19.00	17.42	3	18.00-18.00	18.00
SW	8	15.00-19.00	18.06	4	17.00-19.00	18.25
NC	-	-	-	-	-	-
C	3	17.00-18.50	17.83	6	17.00-19.50	18.17
SC	11	12.00-22.00	18.41	13	12.00-22.00	17.62
NE	1/			-	-	-
EC	3	16.50-18.00	17.17	1/		
SE	-	-	-	-	-	-
State	53	12.00-25.00	17.85	29	12.00-22.00	17.79
	Soyl	eans-Drilling		Cotton	-Single Row Plan	ting
NW	-	-	-	-	-	-
WC	3	-	-	-	-	-
SW	4	-	-	-	-	-
NC	-	-	-	-	-	-
C	1/	1/	1/	-	-	-
SC	4	6	6	6	16.00-22.00	19.33
NE	-	-	-	-	-	-
EC	-	-	-	-	-	-
SE	-	1/	1/	-	-	-
State	13	8	8	6	16.00-22.00	19.33

^{1/} Insufficient number of reports.

Regular-Till

The grass seeding rate averaged \$16.04 per acre, an increase of \$2.08 per acre from 2016. The price for seeding alfalfa-legumes averaged \$16.19 per acre, up \$1.31 from 2016.

Custom Rates for Grass Seeding and Alfalfa-Legume Seeding (\$/Acre), 2018, by District

District	Gı	rass Seeding		Alfalfa-Legume Seeding			
District	No. of Reports	Range	Average	No. of Reports	Range	Average	
NW	-	-	-	-	-	-	
WC	-	-	-	1/			
SW	3	14.00-16.00	14.67	4	13.00-16.00	14.25	
NC	1/			7	12.50-18.00	16.43	
C	3	15.00-25.00	18.33	1/			
SC	-	-	-	3	16.00-17.00	16.67	
NE	1/	15.00-28.00	21.50	3	18.00-28.00	23.84	
EC	4	12.50-15.00	13.13	7	10.00-18.00	13.64	
SE	-	-	-	-	-	-	
State	14	10.00-28.00	16.04	27	10.00-28.00	16.19	

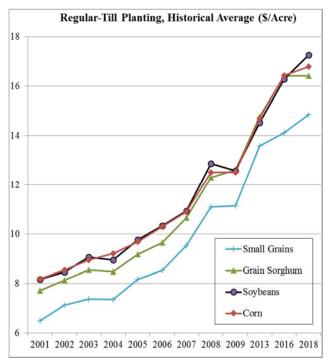
^{1/} Insufficient number of reports.

The custom charges for planting small grains, grain sorghum, corn, and soybeans has been steadily increasing since 2001. Small grain seeding charges in 2018 averaged \$14.85 per acre, up \$0.72 from 2016. The average price charged for planting grain sorghum was \$16.42 per acre, compared to \$16.41 in 2016. Charges for planting corn increased \$0.46 per acre from 2016 to \$16.79 in 2018. Soybean planting charges averaged \$17.26 per acre in 2018, an increase of \$0.97 from 2016.

Custom Rates for Regular-Till Planting, Historical Averages (\$/Acre)

			(5/Acre)			
Year	Small Grains	Grain Sorghum	Soybeans	Corn	Grass	Alfalfa- Legume
2001	6.49	7.72	8.17	8.19	8.92	8.59
2002	7.13	8.13	8.47	8.54	9.77	9.83
2003	7.38	8.55	9.06	8.95	10.61	10.29
2004	7.35	8.48	8.95	9.21	10.83	9.63
2005	8.17	9.17	9.76	9.69	11.45	10.52
2006	8.52	9.65	10.33	10.3	11.44	10.79
2007	9.54	10.65	10.94	10.91	12.6	11.35
2008	11.09	12.3	12.87	12.51	14.65	13.75
2009	11.14	12.61	12.58	12.52	14.02	12.68
2013	13.58	14.77	14.53	14.71	15.35	15.04
2016	14.13	16.41	16.29	16.43	13.96	14.88
2018	14.85*	16.42*	17.26*	16.79*	16.04*	16.19*

^{*}Combined average of planting with fertilizer and planting without fertilizer & chemical.



Minimum-Till or No-Till

The average custom rate for minimum-till or no-till drilling of small grains without fertilizer and chemical applications averaged \$15.32 per acre in 2018. Minimum-till grain sorghum planting without fertilizer and chemical application averaged \$15.65 per acre. Corn planting in 2018 averaged \$15.96 per acre. Soybean row planting, drilling, and twin row planting without fertilizer and chemical application averaged \$16.02 per acre, \$15.43 per acre, and \$17.29 per acre, respectively.

Custom Rates for Minimum-Till or No-Till Planting (\$/Acre), 2018, by District

Without Fertilizer & Chemical Application

District	No. of Reports	Range	Average	No. of Reports	Range	Average
	*	Grain Drilling		*	orghum- Row Pla	
NW	6	12.00-20.00	16.08	5	15.00-20.00	17.20
WC	24	8.00-18.00	14.75	35	10.00-19.00	15.17
SW	12	12.00-18.00	15.50	8	12.00-17.50	15.81
NC	14	12.00-18.00	14.96	7	15.00-30.00	18.00
\mathbf{C}	16	11.50-25.00	16.06	10	11.50-19.00	14.95
SC	14	7.00-25.00	15.36	13	10.00-25.00	15.77
NE	9	10.00-25.00	17.06	-	-	-
EC	8	12.50-17.00	14.31	-	-	-
SE	6	12.00-16.00	14.00	1/		
State	109	7.00-25.00	15.32	80	10.00-30.00	15.65
	Corn-Row Planting			Soyb	eans-Row Plantin	g
NW	7	15.00-20.00	16.93	-	-	-
WC	39	11.50-19.00	15.60	6	11.50-18.00	15.58
SW	10	13.00-18.00	15.90	6	12.00-18.00	15.92
NC	5	15.00-19.00	16.20	1/		
C	8	11.50-19.00	15.88	6	11.50-17.50	14.92
SC	7	10.00-25.00	17.21	10	10.00-25.00	16.00
NE	13	12.00-20.00	16.36	8	12.00-25.00	17.13
EC	5	15.00-17.00	15.40	4	16.00-17.00	16.38
SE	3	14.00-16.00	14.67	1/		
State	97	10.00-25.00	15.96	43	10.00-25.00	16.02
	Soyl	beans-Drilling		Soybean	s-Twin Row Plan	iting
NW		44 70 40 00	1600	1/		
WC	5	11.50-18.00	16.30	- 1/	-	-
SW	5	16.00-18.00	16.80	1/		
NC	11	12.00-18.00	14.27	1/		
C	8	11.50-21.00	16.13	- 1/	-	-
SC	4	10.00-25.00	17.25		15.00.25.00	10.05
NE		12 50 10 00	1.4.07	7	15.00-25.00	18.07
EC	6 1/	12.50-18.00	14.25	1/		
SE	-	10.00.25.00	15 42	-	12.00.25.00	17.20
State	44	10.00-25.00	15.43	12	13.00-25.00	17.29

^{1/} Insufficient number of reports.

Minimum-Till or No-Till

Minimum-till or no-till custom rates for planting small grains, grain sorghum, corn, and soybeans with fertilizer were higher than the corresponding planting rates without fertilizer and chemical application. The average rates in 2018 for small grain drilling, grain sorghum row planting, corn row planting, soybeans row plaint, soybeans drilling, and cotton single row planting with fertilizer application were \$16.85, \$17.47, \$18.13, \$18.45, \$17.99, and \$21.50, respectively.

Custom Rates for Minimum-Till or No-Till Planting (\$/Acre), 2018, by District

With Fertilizer Application

District	No. of Reports	Range	Average	No. of Reports	Range	Average
	Small	Grain Drilling		Grain So	orghum- Row Plan	nting
NW	15	12.00-22.00	16.17	12	15.00-22.00	17.21
WC	21	13.50-20.00	16.62	32	13.00-21.00	17.17
sw	12	14.50-19.00	17.04	13	12.00-19.00	16.81
NC	11	13.50-20.00	16.68	10	15.00-21.00	17.25
C	19	13.50-26.00	17.29	16	13.00-22.00	17.25
SC	12	10.00-27.00	17.08	12	14.00-27.00	19.08
NE	3	17.00-17.00	17.00	1/		
EC	1/			-	-	-
SE	-	-	-	-	-	-
State	95	10.00-27.00	16.85	96	12.00-27.00	17.47
	Corn	Corn-Row Planting			eans-Row Plantin	g
NW	16	15.00-22.00	17.69	1/		
WC	36	13.50-24.00	17.31	5	13.50-18.00	17.10
sw	11	16.00-19.00	17.95	5	18.00-19.00	18.40
NC	12	15.00-24.00	18.54	7	15.50-21.00	18.00
C	15	13.50-24.00	18.10	10	13.50-22.00	17.70
SC	11	16.00-27.00	20.68	9	15.00-27.00	20.44
NE	7	15.00-25.00	19.14	5	15.00-25.00	18.20
EC	4	16.50-21.00	17.88	1/		
SE	-	-	-	-	-	-
State	112	13.50-27.00	18.13	44	13.50-27.00	18.45
		oeans-Drilling		Cotton	-Single Row Plant	ting
NW	1/			-	-	-
WC	4	18.00-18.00	18.00	-	-	-
SW	9	15.00-19.00	17.39	-	-	-
NC	6	14.00-18.50	16.42	-	-	-
\mathbf{C}	5	18.00-20.00	19.30	1/		
SC	5	15.00-27.00	18.70	6	20.00-27.00	22.50
NE	4	17.00-25.00	19.00	-	-	-
EC	-	-	-	-	-	-
SE	-	-	-	1/		
State	34	14.00-27.00	17.99	8	17.00-27.00	21.50

^{1/} Insufficient number of reports.

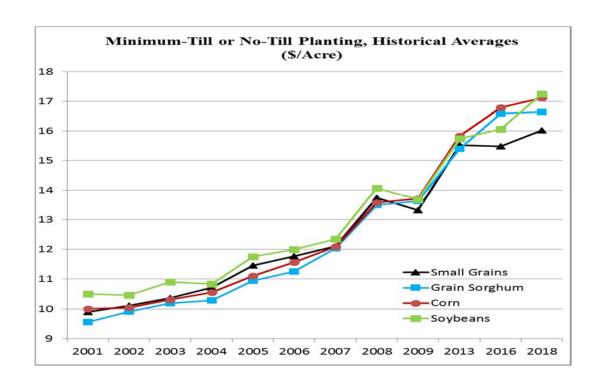
Minimum-Till or No-Till

Over time the custom rates for minimum-till planting of crops have been on the rise. The custom charges for minimum-till or no-till planting small grains, grain sorghum, corn, and soybeans in 2018 were higher than the corresponding 2016 rates. The custom rate for minimum-till or no-till drilling of small grains averaged \$16.03 per acre in 2018, up \$0.54 from 2016. Minimum-till grain sorghum planting averaged \$16.64 per acre, an increase of 4 cents from 2016. Corn planting in 2018 averaged \$17.12 per acre, an increase of \$0.33 from 2016. Soybean planting averaged \$17.25 per acre, up \$1.19 from 2016's average of \$16.06 per acre.

Custom Rates for Minimum or No-Till Planting, Historical

	Averages (\$/Acre)								
	Small	Grain							
Year	Grains	Sorghum	Corn	Soybeans					
2001	9.89	9.56	10.00	10.50					
2002	10.11	9.91	10.04	10.46					
2003	10.36	10.19	10.31	10.90					
2004	10.72	10.29	10.55	10.84					
2005	11.45	10.94	11.11	11.75					
2006	11.77	11.26	11.57	12.00					
2007	12.10	12.04	12.09	12.34					
2008	13.73	13.49	13.57	14.07					
2009	13.31	13.63	13.70	13.68					
2013	15.52	15.40	15.83	15.74					
2016	15.49	16.59	16.79	16.06					
2018	16.03*	16.64*	17.12*	17.25*					

^{*}Combined average of planting with fertilizer and planting without fertilizer & chemical.



Cover Crops

Regular-till cover crop drilling without fertilizer and chemical application averaged \$16.63 per acre in 2018. Regular till aerial planting of cover crops cost \$9.57 per acre in 2018. Minimum or no-till cover crop drilling without fertilizer and chemical averaged \$16.37 per acre, down \$0.60 per acre from 2016. Minimum-till or notill cover crop cover crop drilling with fertilizer application averaged \$17.15 per acre. The rate for minimum-till aerial planting a cover crop without fertilizer and chemical application averaged \$10.38 per acre in 2018.

Custom Rates for Cover Crop Planting, Regular-Till Planting (\$/Acre), 2018, by Region

Without Fertilizer & Chemical Application

Dagion		Drilling			Aerial	
Region	No. of Reports	Range	Average	No. of Reports	Range	Average
Western	8	17.50-18.00	17.75	4	9.00-9.00	9.00
Central	6	14.00-20.00	16.00	1/		
Eastern	1/			1/		
State	16	14.00-20.00	16.63	7	9.00-12.00	9.57

¹/ Insufficient number of reports.

Custom Rates for Cover Crop Planting, Minimum-Till or No-Till Planting (\$/Acre), 2018, by Region

		-	<i>9</i> ′			8 ()/ / 8				
	Drilling without Fertilizer &						Aerial with	hout Fertilizer &	Chemical	
	Chemical Application			Drilling v	Drilling with Fertilizer Application			Application		
Region	Region Dollar per Acre			Dollar per Acre			Dollar per Acre			
	No. of			No. of			No. of		_	
	Reports	Range	Avg.	Reports	Range	Avg.	Reports	Range	Avg.	
Western	12	14.00-18.00	17.04	5	15.00-18.50	16.10	-	-	-	
Central	9	12.50-25.00	16.50	12	15.00-27.00	17.79	1/			
Eastern	10	10.00-18.00	15.45	6	16.50-17.00	16.75	7	9.00-12.00	10.14	
State	31	10.00-25.00	16.37	23	15.00-27.00	17.15	8	9.00-12.00	10.38	

^{1/} Insufficient number of reports.

CHEMICAL APPLICATIONS

The custom rates for chemical applications presented here include the cost of machine, power, and the operator; however, the costs of the chemicals are excluded. Rates charged for row crop cultivation with fertilizer application averaged \$12.02 per acre in 2018, an increase of \$2.62 from the 2016 average. The average rate for row crop cultivation without fertilizer application in 2018 was \$10.51 per acre, an increase of \$2.24 from 2016.

Custom Rates for Row Crop Cultivation, 2018, by Region

Region	With Fertilizer	Application (\$/A	Acre)	Without Fertilizer Application (\$/Acre)			
	No. of Reports	Range	Average	No. of Reports	Range	Average	
Western	5	5.75-10.00	7.45	9	5.75-12.00	9.03	
Central	7	13.00-18.00	14.86	10	6.00-16.00	11.70	
Eastern	1/			1/			
State	13	5.75-18.00	12.02	20	5.75-16.00	10.51	

^{1/} Insufficient number of reports.

The rate for the application of dry fertilizer averaged \$5.61 per acre in 2018, up 13 cents per acre from 2016 rate of \$5.48 per acre. Liquid fertilizer application, on average, cost \$5.73 per acre in 2018, 8 cent per acre higher than in 2016.

Custom Rates for Fertilizer Application, 2018, by District

District	Dry	Fertilizers (\$/Acr	re)	Liquid Fertilizers (\$/Acre)			
District	No. of Reports	Range	Average	No. of Reports	Range	Average	
NW	8	5.00-6.50	5.38	11	4.50-6.50	5.41	
WC	24	4.50-6.00	5.31	23	4.50-7.50	5.59	
SW	15	4.50-6.00	5.17	8	4.90-7.50	5.48	
NC	36	3.00-10.00	5.84	23	4.75-8.00	5.58	
C	24	4.50-6.00	5.19	25	4.50-7.00	5.43	
SC	33	4.50-8.00	5.50	33	4.50-10.00	5.90	
NE	25	4.50-8.00	5.99	16	6.00-7.00	6.37	
EC	17	5.00-6.80	6.04	16	4.50-7.30	6.18	
SE	11	4.50-10.00	5.89	10	4.75-7.00	5.36	
State	193	3.00-10.00	5.61	165	4.50-10.00	5.73	

CHEMICAL APPLICATIONS (Continued)

Custom chemical applicators charged an average of \$15.09 per acre to apply anhydrous ammonia in 2018, \$0.06 less than the 2016 average.

Custom Rates for Application of Anhydrous Ammonia, 2018, by District

District	No. of Reports	Range	Average (\$/Acre)
NW	1/		
WC	10	10.00-18.00	14.20
SW	1/		
NC	5	15.00-17.00	15.80
\mathbf{C}	7	14.00-18.00	16.14
SC	6	10.00-12.00	11.33
NE	20	10.00-22.00	15.96
EC	5	15.00-16.00	15.20
SE	1/		
State	58	10.00-22.00	15.09

¹/ Insufficient number of reports.

The average cost for aerial application of herbicide in 2018 was \$8.07 per acre, up 38 cents from 2016. When herbicide was applied with a ground rig, the average cost in 2018 was \$5.73, up 12 cents from the average of \$5.61 in 2016.

Custom Rates for Herbicide Application, 2018, by District

District	Aer	ial (\$/Acre)		Ground Rig (\$/Acre)			
District	No. of Reports	Range	Average	No. of Reports	Range	Average	
NW	6	6.00-7.50	7.00	12	4.50-6.00	5.30	
WC	10	5.50-8.00	7.05	25	4.50-6.00	5.32	
SW	7	5.00-8.00	6.86	18	4.90-6.50	5.24	
NC	10	4.25-12.00	7.88	30	4.50-8.00	5.68	
C	12	6.00-8.50	7.83	27	4.50-7.75	5.46	
SC	11	7.00-8.50	7.68	32	4.50-15.00	5.95	
NE	8	6.00-12.00	9.56	26	5.50-8.00	6.50	
EC	8	8.50-12.00	9.66	13	5.00-7.85	6.45	
SE	5	8.00-15.00	10.00	8	5.00-6.50	5.38	
State	77	4.25-15.00	8.07	191	4.50-15.00	5.73	

CHEMICAL APPLICATIONS (Continued)

The custom rates for insecticide/fungicide application in 2018 were higher than the corresponding rates in 2016. The average cost for aerial application of insecticide was \$8.48 per acre, up \$0.83 from 2016. When insecticides were applied with a ground rig, the average cost was \$5.71 per acre in 2018, up 9 cents from the 2016 rate.

Custom Rates for Insecticide/Fungicide Application, 2018, by District

District	Aer	ial (\$/Acre)		Ground Rig (\$/Acre)			
District	No. of Reports	Range	Average	No. of Reports	Range	Average	
NW	12	6.00-8.00	7.13	7	5.00-5.75	5.49	
WC	15	4.50-8.00	6.70	17	4.50-5.75	5.26	
SW	8	5.00-8.00	6.88	12	4.90-6.50	5.28	
NC	12	6.00-12.00	8.08	25	4.50-8.00	5.69	
C	16	4.50-8.50	7.36	17	4.50-7.50	5.50	
SC	17	4.50-12.00	7.74	24	4.00-10.00	5.60	
NE	13	9.00-25.00	14.54	15	6.00-7.00	6.52	
EC	7	8.50-12.00	9.64	10	5.00-7.30	6.37	
SE	7	7.00-14.00	9.07	9	5.00-10.00	5.89	
State	107	4.50-25.00	8.48	136	4.00-10.00	5.71	

Custom Rates for Chemical Application, Historical Averages (\$/Acre)

Type of Operation or Application	2001	2002	2003	2004	2005	2006	2007	2008	2009	2013	2016	2018
Cultivation with Fertilizer	6.77	6.19	6.64	6.73	7.59	7.60	6.33	8.41	8.00	10.84	9.40	12.02
Cultivation without Fertilizer	6.25	6.01	5.95	6.08	7.05	7.09	6.32	8.46	7.24	9.39	8.27	10.51
Dry Fertilizer	3.53	3.58	3.68	3.78	4.01	4.15	4.20	4.96	4.68	5.31	5.48	5.61
Liquid Fertilizer	3.57	3.72	3.78	3.87	4.17	4.42	4.37	4.98	4.82	5.71	5.65	5.73
Anhydrous Ammonia	5.61	5.90	6.18	6.93	7.12	6.75	8.46	10.20	10.55	12.60	15.15	15.09
Herbicide-Aerial	4.39	4.52	4.30	4.29	4.56	4.83	5.19	6.20	6.93	7.60	7.69	8.07
Herbicide-Ground Rig	3.72	3.81	3.85	4.03	4.26	4.40	4.50	5.01	4.98	5.44	5.61	5.73
Insecticide-Aerial	4.42	4.49	4.83	4.30	4.74	5.20	5.48	6.20	6.60	7.73	7.65	8.48
Insecticide-Ground Rig	3.77	3.90	3.92	4.02	4.33	4.51	4.49	5.07	4.95	5.45	5.62	5.71

FEED PREPARATION

Rates for custom feed preparations are those generally charged by grain elevators and feed mills. For grinding grain, the average custom rate in 2018 was 44 cents per hundredweight (cwt), down 3 cents from 2016; while the average rate for rolling grain in 2018 was 47 cents per cwt, an increase of 2 cents from 2016. Too few reports were available for the custom rates of grinding hay to be published. Mixing operations cost an average of 42 cents per cwt in 2018, compared to 34 cents per cwt in 2016. The average rates for rolling and mixing and for grinding and mixing in 2018 were 88 cents per cwt and 64 cents per cwt, respectively, compared with 77 cents per cwt and \$1.03 per cwt in 2016.

Custom Rates for Feed Preparation (\$/cwt), 2018, by District

District	Grin	ding Grain		Rolling Grain				
District	No. of Reports	Range	Average	No. of Reports	Range	Average		
NW	-	-	-	-	-	-		
WC	1/			1/				
SW	-	-	-	1/				
NC	1/			5	0.38-0.50	0.48		
C	3	0.38-0.56	0.44	3	0.38-0.56	0.44		
SC	3	0.20-0.50	0.40	4	0.50-0.50	0.50		
NE	1/			1/				
EC	-	-	-	-	-	-		
SE	1/			-	-	-		
State	12	0.20-0.56	0.44	16	0.38-0.56	0.47		

^{1/} Insufficient number of reports.

Custom Rates for Feed Preparation (\$/cwt), 2018, by District

		Mixing Feed			lling and Mi	xing	Grinding and Mixing		
District	No. of			No. of			No. of		
	Reports	Range	Average	Reports	Range	Average	Reports	Range	Average
NW	-	-	-	-	-	-	-	-	-
WC	1/			-	-	-	-	-	-
SW	1/			1/			-	-	-
NC	5	0.38-0.40	0.40	4	0.90-0.90	0.90	-	-	-
C	3	0.38-0.56	0.44	-	-	-	-	-	-
SC	1/			-	-	-	-	-	-
NE	1/			1/			3	0.10-1.00	0.70
EC	-	-	-	-	-	-	-	-	-
SE	1/			-	-	-	1/		
State	16	0.38-0.56	0.42	8	0.90-1.00	0.88	6	0.10-1.00	0.64

^{1/} Insufficient number of reports.

FEED PREPARATION (Continued)

Reports of charges for pelleting feed operations and grinding, mixing and pelleting operations in 2018 were small; therefore, those rates were not published here. Sacking operations, excluding the cost of sacks, averaged \$1.57 per cwt, down 17 cents from 2016 average.

Custom Rates for Feed Preparation (\$/cwt), 2018, by District

District	Sacking								
District	No. of Reports	Range	Average						
NW	-	-	-						
WC	1/								
SW	1/								
NC	5	1.00-1.80	1.16						
C	3	1.80-2.54	2.05						
SC	3	1.75-2.00	1.83						
NE	1/								
EC	-	-	-						
SE	1/								
State	17	0.50-2.54	1.57						

^{1/} Insufficient number of reports.

Custom Rates for Feed Preparation, Historical Average (\$/cwt)

					Rolling	Grinding		Grinding,	Sacking Feed
	Grinding	Rolling	Grinding	Mixing	and	and	Pelleting	Mixing, and	(excluding
Year	Grain	Grain	Hay	Feed	Mixing	Mixing	Feed	Pelleting	sack costs)
2001	0.34	0.31	0.66	0.23	0.49	0.53	0.70	1.18	0.91
2002	0.36	0.33	0.74	0.26	0.51	0.53	0.76	1.19	0.95
2003	0.35	0.33	0.62	0.26	0.52	0.57	0.84	1.14	1.16
2004	0.36	0.34	0.25	0.26	0.56	0.57	0.79	1.16	1.12
2005	0.39	0.36	0.32	0.28	0.58	0.62	0.89	1.20	1.15
2006	0.38	0.37	0.55	0.28	0.58	0.61	0.86	1.02	1.13
2007	0.44	0.39	0.57	0.33	0.57	0.58	0.83	1.34	1.27
2008	0.40	0.36	0.69	0.34	0.64	0.68	1.03	1.52	1.44
2009	0.41	0.37	0.61	0.32	0.61	0.67	0.90	1.51	1.30
2013	0.37	0.38	0.69	0.33	0.72	0.69	1.17	1/	1.49
2016	0.47	0.45	1/	0.34	0.77	1.03	0.89	1.47	1.74
2018	0.44	0.47	1/	0.42	0.88	0.64	1/	1/	1.57

^{1/} Insufficient number of reports.

FEED DELIVERY

Various methods were used to charge for bulk feed deliveries. Rates for the most commonly reported methods are presented. If feed delivery was charged per load plus mileage, the rate in 2018 averaged \$33.33 per load plus \$2.00 per loaded mile for an average load of 16 tons. If the feed delivery charge was based on a straight charge per mile, the average rate in 2018 was \$2.98 per loaded mile on an average load of 9.45 tons. In 2016, operators charged \$2.11 per loaded mile on an average load of 9.72 tons. Operators also had fee structures with a flat rate per load for feed delivery. For an average load of 8.60 tons, an average flat rate of \$27.67 per load was charged in 2018. Some operators charged an additional fee for miles beyond a specified limit. For all methods, the average extra charge was \$2.17 per mile per load after 22 miles. In 2016, the average extra charge was \$2.92 per mile per load after 28 miles.

Custom Rates for Feed Delivery by Region

	Custom reaces for recar benivery by region								
D :		Charge per	Load Plus Mileage		Straight Charge per Mile				
Region	Number of Reports	Dollar per Load	+ Dollar per Loaded Mile	Avg. Load (Tons)	Number of Reports	Dollars per Loaded Mile	Avg. Load (Tons)		
	of Reports	per Load		(10118)	of Keports		(Tolls)		
			2018		2018				
Western	-	-	-	-	1/				
Central	10	30.00	1.90	17.33	5	3.10	12.20		
Eastern	1/			12.00	4	3.00	6.00		
State	12	33.33	2.00	16.00	11	2.98	9.45		
			2016			2016			
Western	-	-	-	-	6	2.54	7.83		
Central	14	30.36	2.03	7.29	3	2.25	9.00		
Eastern	5	20.00	2.13	5.00	9	1.78	11.22		
State	19	27.63	2.05	6.60	18	2.11	9.72		

¹/ Insufficient number of reports.

Custom Rates for Feed Delivery by Region

				tery by region		
	I	Flat Rate per Loa	nd	Extra	Charge (All Me	ethods)
Region	Number of Reports	Dollars per Load	Avg. Load (Tons)	Number of Reports	Maximum Miles	Extra Dollars per Mile
	1	2018		1	2018	1
Western	1/			1/		
Central	4	35.00	11.50	11	13.64	2.39
Eastern	4	18.00	6.00	10	32.50	1.75
State	10	27.67	8.60	22	22.27	2.17
		2016			2016	
Western	-	-	-	-	-	_
Central	-	-	-	12	27.58	2.50
Eastern	11	41.82	3.55	11	28.64	3.11
State	11	41.82	3.55	23	28.09	2.92

^{1/} Insufficient number of reports.

MACHINERY RENTAL

Rental costs listed below do not include the cost of fuel or labor for self-propelled equipment and tractors. Tractors and combines were the most commonly reported rental items, followed by corn headers, no till drill, anhydrous applicators, and disks. Some items, such as liquid fertilizer application and chemical sprayer, were reported but had too few reports to summarize.

Combine rental averaged \$213.33 per hour. Rental charges for corn headers in 2018 averaged \$11.00 per acre, down \$1 from 2016. Average rental for a no till drill was \$8.58 per acre in 2018, up \$0.37 from 2016. Rental for tractors with less than 100HP averaged \$21.68 per hour in 2018; while rental for tractors more than 250HP averaged \$78 per hour. Average rental costs show increases or decreases due to the varied demand and increasing costs of implements. Some of the variation may be due to the small number of reports for some rental items.

Machine Rental Rates, 2018

Machine or Tool	Method of Charge	No. of Reports	Range	Average
Combine	\$/Hour	21	100.00-260.00	213.33
Corn Header	\$/Acre	15	8.00-15.00	11.00
No-Till Drill	\$/Acre	12	7.50-10.00	8.58
Drill Seeder	\$/Acre	1/		
Anhydrous Applicator	\$/Acre	3	6.00-8.00	7.33
Liquid Fertilizer Applicator	\$/Acre	1/		
Chemical Sprayer	\$/Hour	1/		
Disk	\$/Acre	5	6.00-9.00	6.60
Tractor				
Less than 100 HP	\$/Hour	6	20.00-25.00	21.68
101-150 HP	\$/Hour	9	30.00-35.00	33.89
151-250 HP	\$/Hour	5	35.00-65.00	50.00
250+ HP	\$/Hour	27	45.00-150.00	78.00

^{1/} Insufficient number of reports.

TERRACING AND DOZING

The cost of building terraces averaged \$0.92 per foot. The average cost for general dozer work was \$157 per hour, up from 2016.

Custom Rates for Terracing and Dozing, 2016, by Region

		Terracing		Dozing					
Region	No. of	Dollars per Foot		No. of	Dollars per Hour				
	Reports	Range	Average	Reports	Range	Average			
		2018			2018				
Western	7	0.25-1.90	0.91	4	150.00-150.00	150.00			
Central	3	0.90-1.09	1.03	11	100.00-200.00	160.00			
Eastern	1/			10	125.00-200.00	156.50			
State	11	0.25-1.90	0.92	25	95.00-165.00	157.00			

^{1/} Insufficient number of reports.

MANURE REMOVAL AND SPREADING

Custom rates for manure removal and spreading in 2018 averaged \$4.97 per ton, with an additional mileage charge of \$1.04 per mile hauled. In 2016, manure removal and spreading cost averaged \$5.68 per ton with an additional mileage change of \$1.67 per mile hauled. There are too few responses to custom rates for manure removal alone to be published.

Custom Rates for Manure Removal by Region

Danian	Removal an	d Spreading (\$/7	Ton)	Additional Charges (\$/Mile)					
Region	No. of Reports	Range	Average	No. of Reports	Range	Average			
		2018		2016					
Western	4	7.50-7.50	7.50	5	0.25-0.25	0.25			
Central	4	1.88-3.00	2.44	1/					
Eastern	-	-	-	-	-	-			
State	8	1.88-7.50	4.97	7	0.25-3.00	1.04			
		2016		2016					
Western	20	2.35-10.00	5.78	11	0.25-6.00	1.33			
Central	9	1.60-10.00	5.40	3	2.00-4.75	2.92			
Eastern	1/			-	-	-			
State	31	1.60-10.00	5.68	14	0.25-6.00	1.67			

^{1/} Insufficient number of reports.

HAULING LIVESTOCK

Questions related to custom rates for hauling livestock were added to the survey starting in 2016. Custom rates for hauling livestock with a belly-semi truck in 2018 averaged \$3.84 per mile hauled at 51,577 lbs. capacity. In 2016, average rate for hauling livestock with a belly-semi was \$3.23 per mile with 57,364 lbs. capacity. In 2018, custom rates for hauling cattle in flat trucks averaged \$5.75 per mile, with average capacity of 45,200 lbs.

Custom Rates for Hauling Livestock, 2018, by Region

	Belly Semi Truck									
Region	Weig	ht Capacity (lb.)	One-Way Load Charge (\$/Mile)							
	No. of Reports	Range	Average	No. of Reports	Range	Average				
Western	5	50000-56000	52200	5	2.33-4.00	3.63				
Central	3	52000-52500	52167	5	3.80-5.00	4.14				
Eastern	5	48000-55000	50600	5	3.50-4.00	3.76				
State	13	48000-56000	51577	15	2.33-5.00	3.84				

Custom Rates for Hauling Livestock, 2018, by Region

			8)) , - 8 -							
	Flat Truck										
Region	Weig	ht Capacity (lb.)	One-Way Load Charge (\$/Mile)								
	No. of Reports	Range	Average	No. of Reports	Range	Average					
Western	1/			1/							
Central	1/			3	5.00-6.00	5.67					
Eastern	1/			1/							
State	5	25000-55000	45200	6	3.00-10.00	5.75					

^{1/} Insufficient number of reports.

FENCE BUILDING

Rates for fence building were reported in the Bluestem Pasture Survey report published in June of 2017. The 2017 average fence building costs computed from responses in the 14 Flint Hills counties. The reported rates varied considerably due to the difference in materials, equipment, and terrain. The rate charged for building a five-wire fence, excluding materials, averaged \$20.08 per rod in 2017, an increase of \$4.17 from 2015. The rate including materials averaged \$31.01 per rod, down 7 cents from 2015. Average hourly rates charged for fence building in 2017 were \$66.67 per hour with equipment, down \$10 per hour from 2015. In 2017, additional charge for gates was \$100.25 and for corners was \$166.67. Hourly rate for rough or rocky terrain averaged \$62.50 per hour, up \$7.50 from 2015.

Custom Rates for Fence Building, 2017

Type	2017 (\$)
5 Wire Including Materials (\$/Rod)	31.01
5 Wire Excluding Materials (\$/Rod)	20.08
Additional Charge for Gates (\$)	100.25
Additional Charge for Corners (\$)	166.67
Average Hourly Rate with Equipment (\$/hour)	66.67
Average Hourly Rate for Rough or Rocky Terrain (\$/hour)	62.50