

Kansas Custom Rates 2018



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

KANSAS STATE
Agricultural Economics


Kansas
Department of Agriculture

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

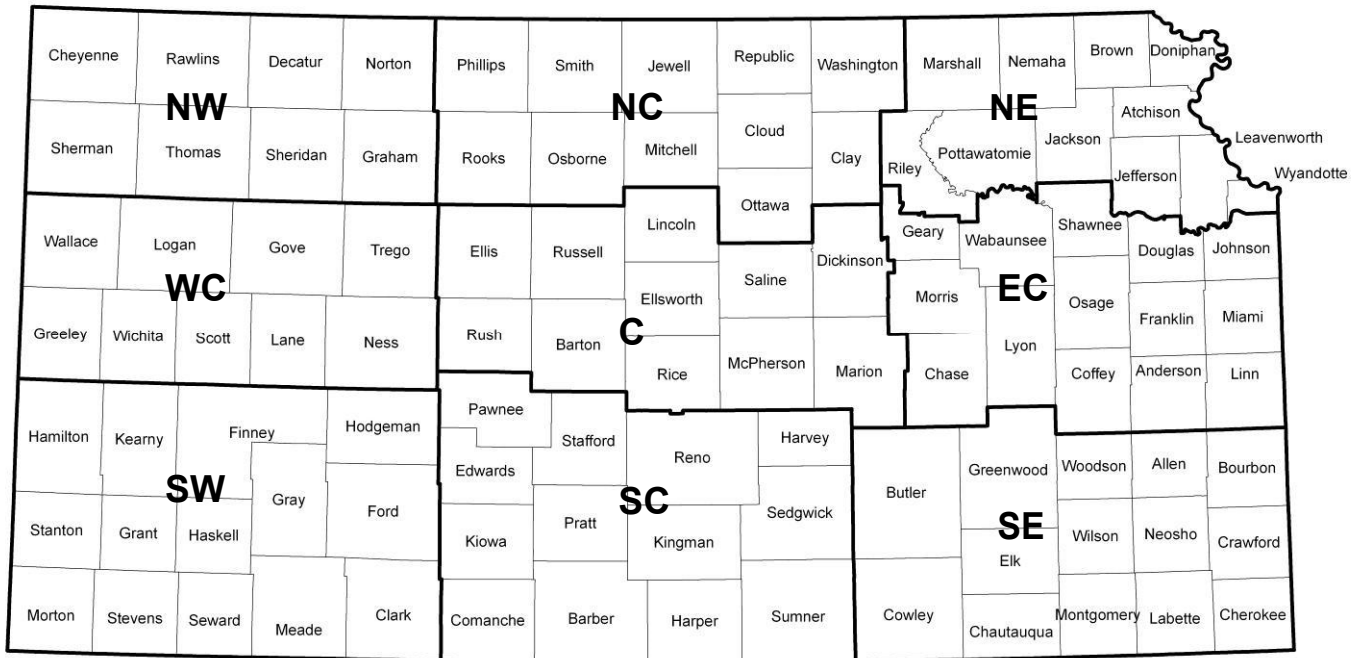


TABLE OF CONTENTS

	Page
Introduction	3
Grain Harvesting	
Wheat	4
Grain Sorghum.....	5
Corn.....	6
Soybeans	7
Sunflower.....	8
Seed Cleaning	
Wheat	9
Historical Averages	9
Grain Hauling	
Wheat, Grain Sorghum, Corn, Soybeans, and Sunflower	10
Silage Operations	11
Haying	
Mowing or Swathing Hay and Forage.....	12
Swathing, Conditioning, and Side Raking	12
Baling Hay	13
Hauling	14
Entire Haying Operation	14
Rotary Mowing	15
Tree Shearing.....	15
Land Tillage	
Disking	16
Chiseling	16
Strip Tillage, Vertical Tillage, and Subsoiler/In-line Ripper.....	17
Cultivation, Undercutting, and Harrowing.....	18
Finisher, Rotary Hoe, and Historical Averages	19
Planting	
Regular-Till Planting without Fertilizer & Chemical Application	20
Regular-Till Planting with Fertilizer Application	21
Grass and Legume Seeding	22
Minimum-Till or No-Till Planting without Fertilizer & Chemical Application.....	23
Minimum-Till or No-Till Planting with fertilizer Application.....	24
Historical Averages	25
Cover Crops.....	26
Chemical Applications	
Row Crop Cultivation	27
Dry and Liquid Fertilizers	27
Anhydrous Ammonia.....	28
Herbicides	28
Insecticides.....	29
Historical Averages	29
Feed Preparation	
Grinding, Rolling, and Mixing.....	30
Sacking	31
Historical Averages	31
Feed Delivery.....	32
Machinery Rental	33
Terracing and Dozing.....	34
Manure Removal and Spreading.....	34
Livestock Hauling	35
Fence Building	35

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.

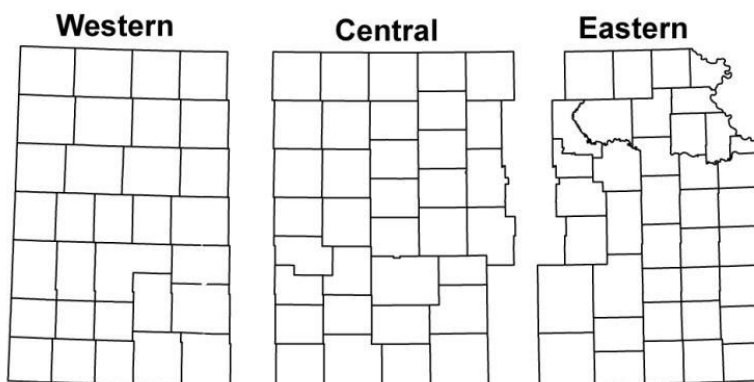
KDA and the LUSP extend a special thanks to Kansas farmers, ranchers, custom operators, co-ops, and elevators for their responses to the 2018 Kansas Farm Custom Rates Survey. We have received many comments about the Custom Rates report from the agricultural community. We appreciate this feedback and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



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.

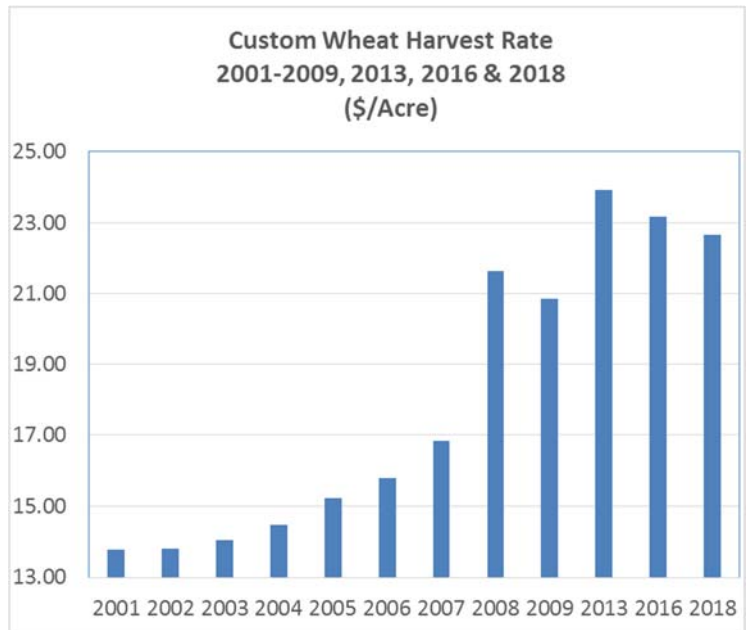
Custom Rates for Wheat Harvest, 2018, by District

District	Base Rate with Extra Charge for High Yield (if any)						Flat Rate Charge		
	Base Rate (\$/Acre)			Extra Charge for High Yield			Dollar Per Acre		
	No. of Reports	Range	Average	No. of Reports	Average (\$/Bushel)	Above Bushels	No. of 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

Year	Dollars Per Acre	Extra Charge for High Yield	
		Dollar per Bushel	Above 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 HARVESTING (Continued)

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.

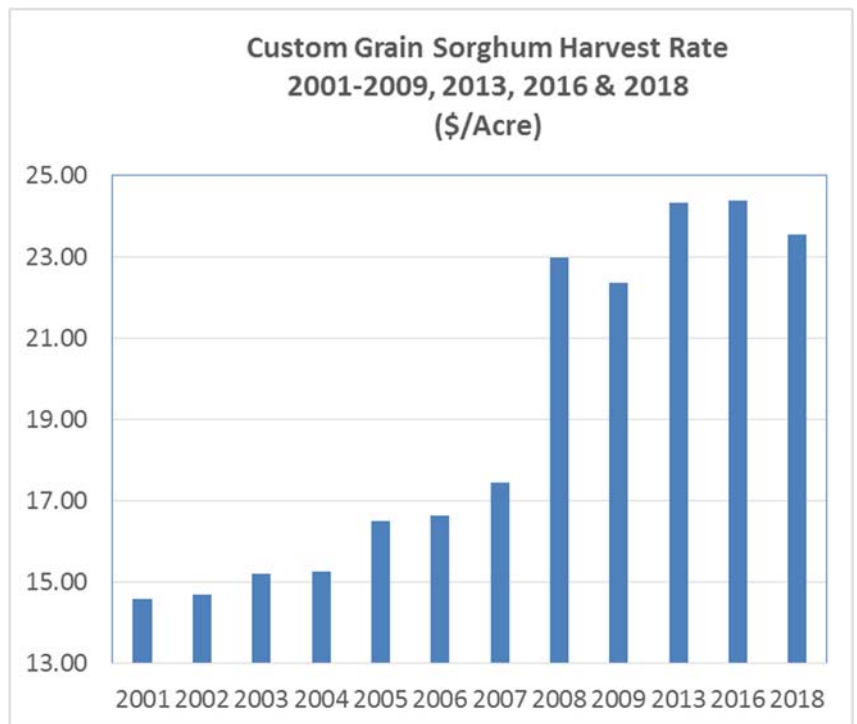
Custom Rates for Grain Sorghum Harvest, 2018, by District

District	Base Rate with Extra Charge for High Yield (if any)						Flat Rate Charge		
	Base Rate (\$/Acre)			Extra Charge for High Yield			Dollar Per Acre		
	No. of Reports	Range	Average	No. of Reports	Average (\$/Bushel)	Above Bushels	No. of 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

Year	Dollars Per Acre	Extra Charge for High Yield	
		Dollar per Bushel	Above 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



GRAIN HARVESTING (Continued)

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.

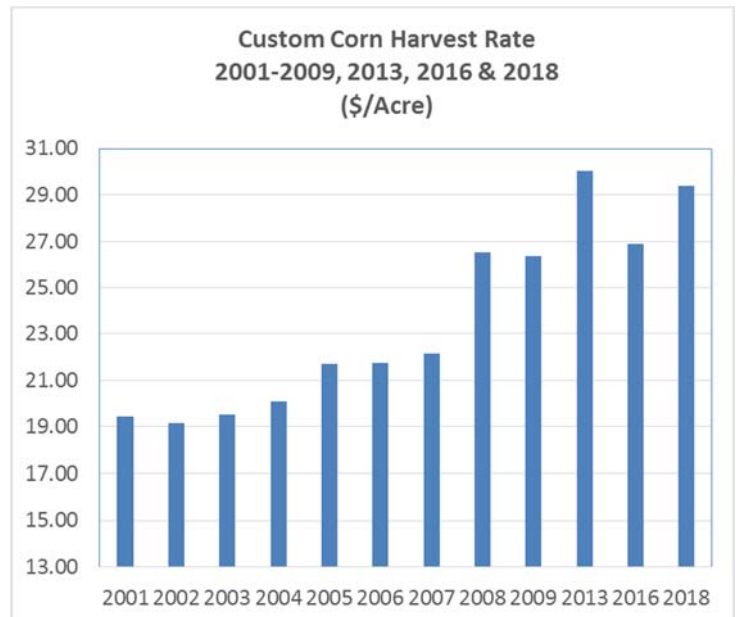
Custom Rates for Corn Harvest, 2018, by District

District	Base Rate with Extra Charge for High Yield (if any)						Flat Rate Charge					
	Base Rate (\$/Acre)			Extra Charge for High Yield			Dollar Per Acre			Dollar Per Bushel		
	No. of Reports	Range	Average	No. of Reports	Average (\$/Bushel)	Above Bushels	No. of Reports	Range	Average	No. of 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

Year	Dollars Per Acre	Extra Charge for High Yield		Flat Rate Charge
		Dollar per Bushel	Above Bushels	Dollar per 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



GRAIN HARVESTING (Continued)

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.

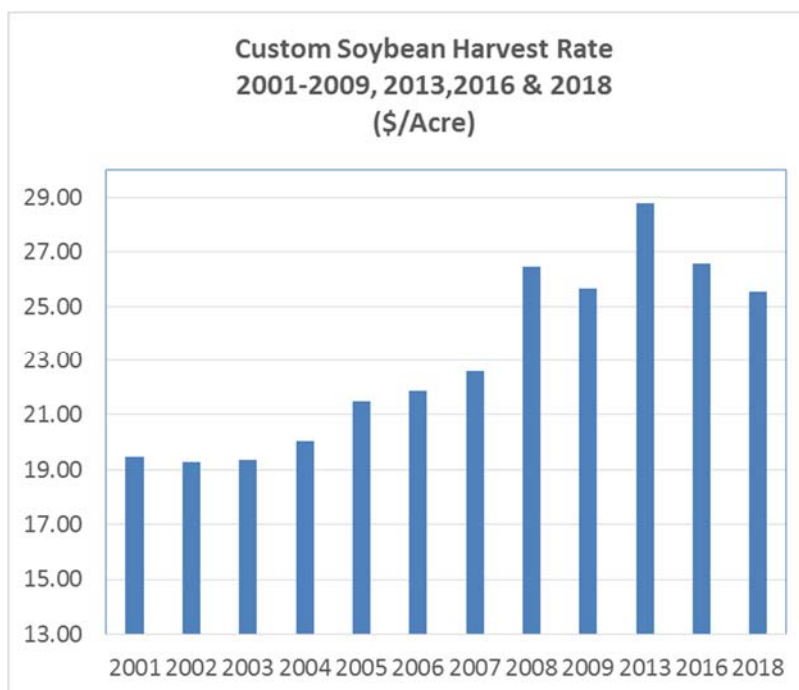
Custom Rates for Soybean Harvest, 2018, by District

District	Base Rate with Extra Charge for High Yield (if any)						Flat Rate Charge		
	Base Rate (\$/Acre)			Extra Charge for High Yield			Dollar Per Acre		
	No. of Reports	Range	Average	No. of Reports	Average (\$/Bushel)	Above Bushels	No. of 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

Year	Dollars Per Acre	Extra Charge for High Yield	
		Dollar per Bushel	Above 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



GRAIN HARVESTING (Continued)

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

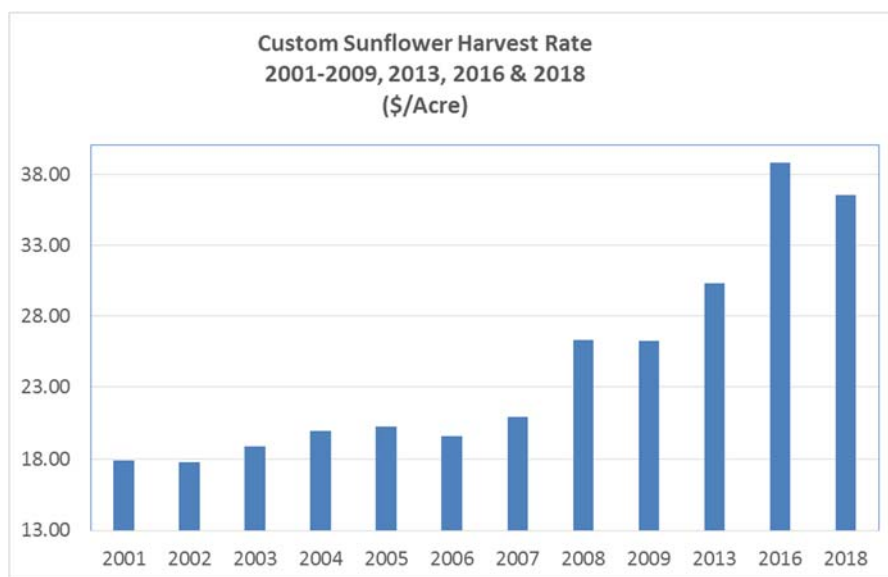
Region	Flat Rate Charge		
	Dollar Per Acre		
	No. of Reports	Range	Average
Western	10	30-45	37.20
Central	1/		
Eastern	-		
State	11	30-45	36.55

^{1/} Insufficient number of reports.

**Custom Sunflower Harvest
Historical Rates**

Year	Dollars Per Acre	Extra Charge for High Yield	
		Dollar per Bushel	Above 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	With Treatment			Without Treatment		
	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

District	No. of Reports	Hauling Charge (\$/Bushel)	Mile Limits (Miles)	Extra Charge	No. of Reports	Hauling Charge (\$/Bushel)	Mile Limits (Miles)	Extra Charge
				for Longer Distances (\$/Bushel/Mile)				for Longer Distances (\$/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

State	No. of Reports	Hauling Charge (\$/Bushel)	Mile Limits (Miles)	Extra Charge for Longer Distances (\$ 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

Region	Chopping, Hauling & Filling Silo			Chopping & Hauling		
	No. of Reports	Dollars per Ton		No. of Reports	Dollars per Ton	
		Range	Average		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

Region	Chopping Only			Hauling		
	No. of Reports	Dollars per Ton		No. of Reports	Dollars per Ton	
		Range	Average		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

District	Hay			Forage		
	Number of Reports	Dollars per Acre		Number of Reports	Dollars per Acre	
		Range	Average		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

District	Swathing and Conditioning			Side Raking		
	Number of Reports	Dollars per Acre		Number of Reports	Dollars per Acre	
		Range	Average		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)

Type of Bale		2018			2016		
		# 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
	With twine	11	1.00-2.00	1.26	9	0.50-1.35	0.89
Large Round Bales under 1,500 pounds	Without net	10	10.00-15.00	11.86	34	7.00-17.50	11.73
	With net	48	4.50-17.00	12.15	9	8.00-18.00	11.78
Large Round Bales over 1,500 pounds	Without net	6	10.00-14.00	11.50	24	10.00-17.00	13.96
	With net	57	8.00-17.00	12.39	4	13.00-15.00	14.00
Large Square Bales about 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

Region	Small Square with Wire			Small Square with Twine			Large Square		
	No. of Reports	Dollars per Bale		No. of Reports	Dollars per Bale		No. of Reports	Dollars per Bale	
		Range	Average		Range	Average		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

Region	With Net						Without Net					
	Under 1500 lbs.			Over 1500 lbs.			Under 1500 lbs.			Over 1500 lbs.		
	No. of Reports	Dollars per Bale		No. of Reports	Dollars per Bale		No. of Reports	Dollars per Bale		No. of Reports	Dollars per Bale	
		Range	Avg.		Range	Avg.		Range	Avg.		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

Region	Small Bales			Large Square Bales		
	Number of Reports	Dollars per Bale		Number of Reports	Dollars per Bale	
		Range	Average		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

Region	Large Round Bales					
	Number of Reports	Dollars per Bale		Number of Reports	Dollars per Ton	
		Range	Average		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

Region	Small Bales			Large Round Bales		
	Number of Reports	Dollars per Bale		Number of Reports	Dollars per Bale	
		Range	Average		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

District	Rotary Mowing						Skid Loader Tree Shearing		
	Dollar per Acre			Dollar per Hour			Dollar per Hour		
	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

Region	Rotary Mowing						Skid Loader Tree Shearing		
	Dollar per Acre			Dollar per Hour			Dollar per Hour		
	No. of Reports	Range	Avg.	No. of Reports	Range	Avg.	No. of 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

District	Disking			Offset Disk			Tandem Disking		
	Dollar per Acre			Dollar per Acre			Dollar per Acre		
	No. of Reports	Range	Avg.	No. of Reports	Range	Avg.	No. of 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

District	Chisel (4-12")			Deep chisel (Over 12")		
	Number of Reports	Dollars per Acre		Number of Reports	Dollars per Acre	
		Range	Average		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

District	Strip Tillage			Deep Strip Tillage (over 6" deep)			Vertical Tillage--high speed, shallow (2-4")		
	Dollar per Acre			Dollar per Acre			Dollar per Acre		
	No. of Reports	Range	Avg.	No. of Reports	Range	Avg.	No. of 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

District	Field Cultivator (5 HP per linear foot of implement)			Undercutter (Shallow, e.g. Fallow Mator)			Undercutter (Large "V" Blade)		
	Dollar per Acre			Dollar per Acre			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

Region	Spiketooth Harrow			Springtooth		
	Dollar per Acre			Dollar per Hour		
	No. of Reports	Range	Avg.	No. of 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

Region	Finisher (Finish & Pack for Seed Bed)			Rotary Hoe		
	Dollar per Acre			Dollar per Acre		
	No. of Reports	Range	Avg.	No. of 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**

District	No. of Reports	Range	Average	No. of Reports	Range	Average
	Small Grain Drilling			Grain Sorghum- Row Planting		
NW	6	10.00-15.00	12.83	^{1/}		
WC	19	8.00-17.50	13.76	27	9.00-17.50	15.24
SW	11	10.00-20.00	15.41	7	15.50-17.50	16.36
NC	^{1/}			^{1/}		
C	9	13.00-18.00	15.33	5	15.00-17.00	15.40
SC	10	5.00-20.00	13.30	9	10.00-20.00	16.00
NE	^{1/}			-	-	-
EC	3	12.00-18.00	15.67	^{1/}		
SE	4	10.00-14.00	12.00	^{1/}		
State	64	5.00-20.00	14.25	53	9.00-20.00	15.49
	Corn-Row Planting			Soybeans-Row Planting		
NW	3	14.00-17.00	15.67	-	-	-
WC	30	10.00-18.00	15.43	3	18.00-18.00	18.00
SW	7	16.00-18.00	17.07	4	16.00-18.00	16.88
NC	^{1/}			^{1/}		
C	4	16.00-18.00	16.75	4	17.00-17.50	17.38
SC	10	10.00-20.00	16.30	9	10.00-20.00	16.06
NE	5	15.00-15.00	15.00	6	15.00-25.00	17.16
EC	4	15.00-22.00	18.00	4	16.00-18.00	16.85
SE	^{1/}			^{1/}		
State	66	10.00-22.00	15.95	32	10.00-25.00	16.78
	Soybeans-Drilling			Soybeans-Twin Row Planting		
NW	-	-	-	-	-	-
WC	3	18.00-18.00	18.00	-	-	-
SW	4	16.00-18.00	16.75	-	-	-
NC	^{1/}			^{1/}		
C	^{1/}			-	-	-
SC	5	10.00-20.00	15.00	-	-	-
NE	^{1/}			^{1/}		
EC	^{1/}			^{1/}		
SE	^{1/}			-	-	-
State	20	10.00-20.00	16.25	4	15.00-25.00	20.00

^{1/} Insufficient number of reports.

PLANTING (Continued)

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 planting, 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**

District	No. of Reports	Range	Average	No. of Reports	Range	Average
	Small Grain Drilling			Grain Sorghum- Row Planting		
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			Soybeans-Row Planting		
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
	Soybeans-Drilling			Cotton-Single Row Planting		
NW	-	-	-	-	-	-
WC	3	18.00-18.00	18.00	-	-	-
SW	4	17.50-19.00	18.38	-	-	-
NC	-	-	-	-	-	-
C	1/	1/	1/	-	-	-
SC	4	10.00-22.00	14.88	6	16.00-22.00	19.33
NE	-	-	-	-	-	-
EC	-	-	-	-	-	-
SE	-	1/	1/	-	-	-
State	13	10.00-22.00	17.12	6	16.00-22.00	19.33

^{1/} Insufficient number of reports.

PLANTING (Continued)

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	Grass Seeding			Alfalfa-Legume Seeding		
	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

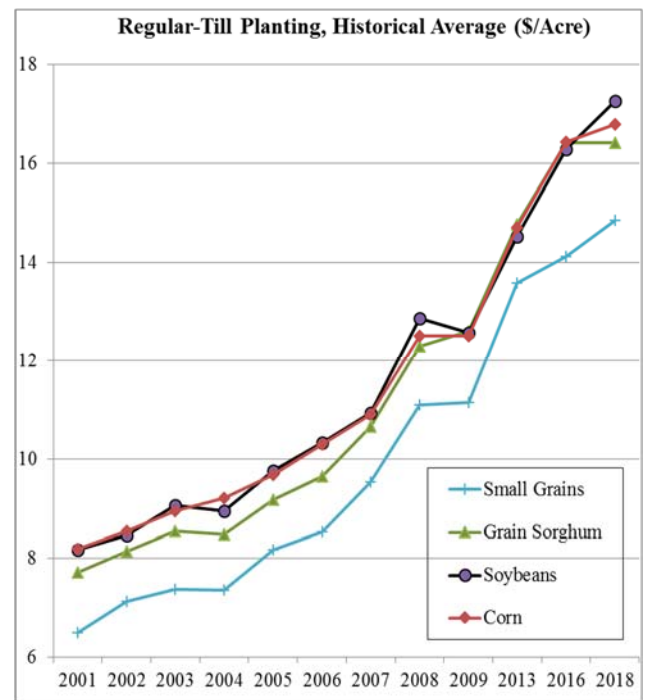
1/ Insufficient number of reports.

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)

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.



PLANTING (Continued)

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
	Small Grain Drilling			Grain Sorghum- Row Planting		
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
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			Soybeans-Row Planting		
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
	Soybeans-Drilling			Soybeans-Twin Row Planting		
NW	^{1/}			^{1/}		
WC	5	11.50-18.00	16.30	-	-	-
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	-	-	-
SC	4	10.00-25.00	17.25	^{1/}		
NE	^{1/}			7	15.00-25.00	18.07
EC	6	12.50-18.00	14.25	^{1/}		
SE	^{1/}			-	-	-
State	44	10.00-25.00	15.43	12	13.00-25.00	17.29

^{1/} Insufficient number of reports.

PLANTING (Continued)

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 plant, 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 Sorghum- Row Planting		
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-Row Planting			Soybeans-Row Planting		
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
	Soybeans-Drilling			Cotton-Single Row Planting		
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	-	-	-
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.

PLANTING (Continued)

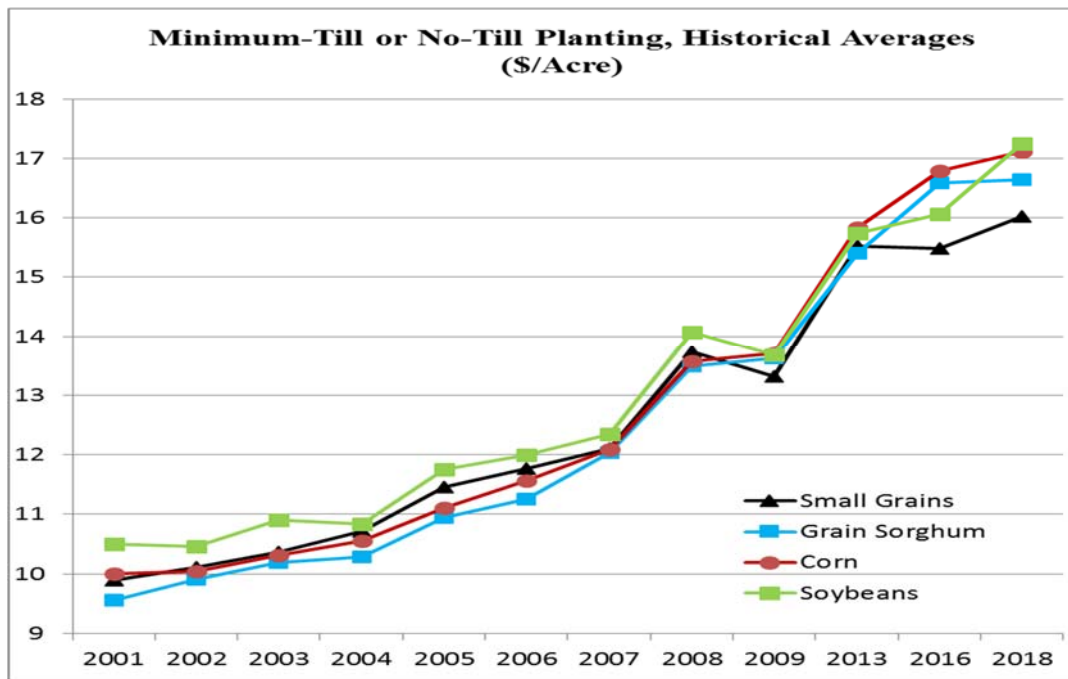
Minimum-Till or No-Till

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)

Year	Small Grains	Grain 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 no-till 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

Region	Drilling			Aerial		
	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

Region	Drilling without Fertilizer & Chemical Application			Drilling with Fertilizer Application			Aerial without Fertilizer & Chemical Application		
	Dollar per Acre			Dollar per Acre			Dollar per Acre		
	No. of Reports	Range	Avg.	No. of Reports	Range	Avg.	No. of 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 (\$/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 (\$/Acre)			Liquid Fertilizers (\$/Acre)		
	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
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	Aerial (\$/Acre)			Ground Rig (\$/Acre)		
	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	Aerial (\$/Acre)			Ground Rig (\$/Acre)		
	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	Grinding Grain			Rolling Grain		
	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

District	Mixing Feed			Rolling and Mixing			Grinding and Mixing		
	No. of Reports	Range	Average	No. of Reports	Range	Average	No. of 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		
	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)

Year	Grinding Grain	Rolling Grain	Grinding Hay	Mixing Feed	Rolling and Mixing	Grinding and Mixing	Pelleting Feed	Grinding, Mixing, and Pelleting	Sacking Feed (excluding 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

Region	Charge per Load Plus Mileage				Straight Charge per Mile		
	Number of Reports	Dollar per Load	+ Dollar per Loaded Mile	Avg. Load (Tons)	Number of Reports	Dollars per Loaded Mile	Avg. Load (Tons)
	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

Region	Flat Rate per Load			Extra Charge (All Methods)		
	Number of Reports	Dollars per Load	Avg. Load (Tons)	Number of Reports	Maximum Miles	Extra Dollars per Mile
	2018			2018		
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

Region	Terracing			Dozing		
	No. of Reports	Dollars per Foot		No. of Reports	Dollars per Hour	
		Range	Average		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 charge 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

Region	Removal and Spreading (\$/Ton)			Additional Charges (\$/Mile)		
	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

Region	Belly Semi Truck					
	Weight 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

Region	Flat Truck					
	Weight 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