

Custom Rates 2002



National Agricultural
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Kansas Agricultural
Statistics Service

Fact Finders for Agriculture



2002

RATES PAID BY KANSAS FARMERS FOR CUSTOM WORK

KANSAS AGRICULTURAL STATISTICS SERVICE

In Cooperation With

**U.S. Department of Agriculture
National Agricultural Statistics Service**

**Kansas Department of Agriculture
Division of Statistics**

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The ranges and averages in this bulletin reflect the rates paid by Kansas farmers during 2002 for various custom operations.

Special thanks are due the almost 1,770 custom operators, farmers, and ranchers who took the time to report the data in this publication. Our appreciation also goes to the Cooperative Extension Service's county agricultural agents who reviewed the survey questionnaire.

Eldon J. Thiessen
State Statistician

KANSAS AGRICULTURAL STATISTICS DISTRICTS

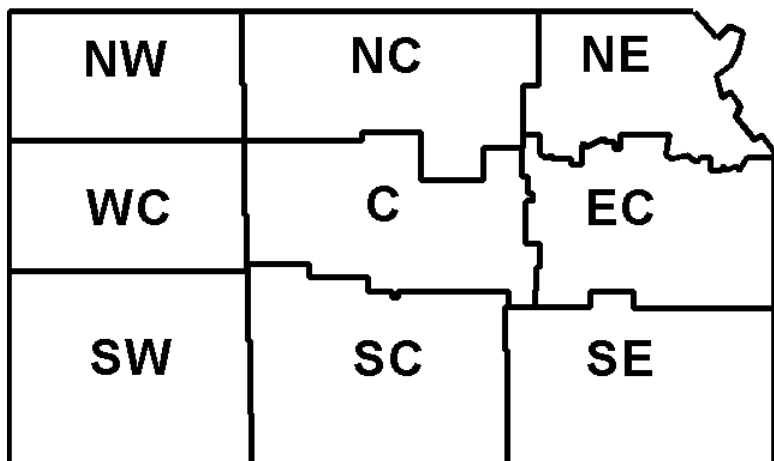


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INTRODUCTION

This publication reports average rates paid by Kansas farmers for custom work in 2002. The figures come from an annual survey of Kansas farmers, custom operators, coops and elevators. Questionnaires were mailed to about 2,100 operations. Almost 1,770 responded by mail or telephone.

The Custom Rates book is intended to be a guide to help custom operators and farmers reach mutual agreements. The prices reported here should not be regarded as official or established rates. The average figures in this book give equal weight to all reports received.

The prices in this book are charges for machines, power, fuel, and operator. Costs of chemicals, seeds, and most other materials are excluded. The one exception is hay baling materials. Exchange work between farmers is not considered custom work.

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. Rates are often lower in western Kansas where the larger farms are well suited to extensive operation with heavy equipment.

The average custom rates charged in 2002 are generally similar to those reported in 2001. At the State level, most average prices changed by less than 10 percent, up or down. Of the more than 130 custom work items or machinery rentals in this report, 70 increased in price, 4 were unchanged, and 35 decreased in price. The report contains historical tables and graphs which show the results of previous surveys. Data are missing for 1986 because the funding for this project was temporarily halted.

In the past year 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.

GRAIN HARVESTING

WHEAT: Rates for custom combining wheat averaged \$13.80 per acre with, in most cases, an additional average charge of 13.1 cents per bushel for yields greater than 22 bushels per acre. The per acre rate is up 3 cents from last year. Some respondents reported a flat rate per bushel harvesting charge but there were too few reports to publish the data.

CUSTOM RATES FOR COMBINE HARVESTING OF WHEAT, 2002

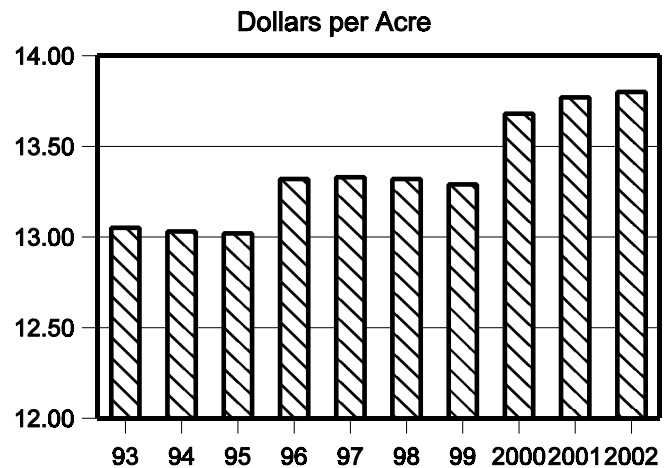
District	No. of Reports ^{1/}	Dollars per Acre		No. of Reports ^{1/}	Extra Charge for High Yield	
		Range	Avg.		¢ per Bu.	Above Bushels
NW	80	12-20	13.33	67	13.1	21
WC	59	12-14	13.00	49	13.2	20
SW	82	10-14	12.91	71	13.2	20
NC	65	12-20	13.45	49	13.2	22
C	83	10-18	13.10	66	13.0	22
SC	122	10-20	13.25	100	13.2	22
NE	40	12-22	16.11	16	12.5	24
EC	46	12-22	17.23	10	13.2	26
SE	39	12-20	15.19	10	12.3	26
STATE	616	10-22	13.80	438	13.1	22

^{1/} Reports are counted in each district where combining was done; thus some reports are included in more than one district.

HISTORICAL CUSTOM RATES FOR WHEAT HARVESTING

Year	Dollars Per Acre	Extra Charge for High Yield	
		¢ per Bushel	Above Bushels
1987	12.43	11.6	21
1988	12.66	11.6	21
1989	12.71	11.6	21
1990	12.83	11.8	21
1991	12.74	11.8	21
1992	12.90	12.1	21
1993	13.05	12.1	20
1994	13.03	12.2	21
1995	13.02	12.2	20
1996	13.32	12.4	20
1997	13.33	12.6	21
1998	13.32	12.6	21
1999	13.29	12.6	21
2000	13.68	12.8	21
2001	13.77	13.1	20
2002	13.80	13.1	22

WHEAT HARVESTING



GRAIN HARVESTING

GRAIN SORGHUM: Rates charged for custom harvesting of grain sorghum averaged \$14.68 per acre, a increase of 10 cents from last year. Additional charges averaged 13.0 cents per bushel for yields over 35 bushels per acre. Some respondents reported a flat rate per bushel harvesting charge but there were too few reports to publish the data.

CUSTOM RATES FOR COMBINE HARVESTING OF GRAIN SORGHUM, 2002

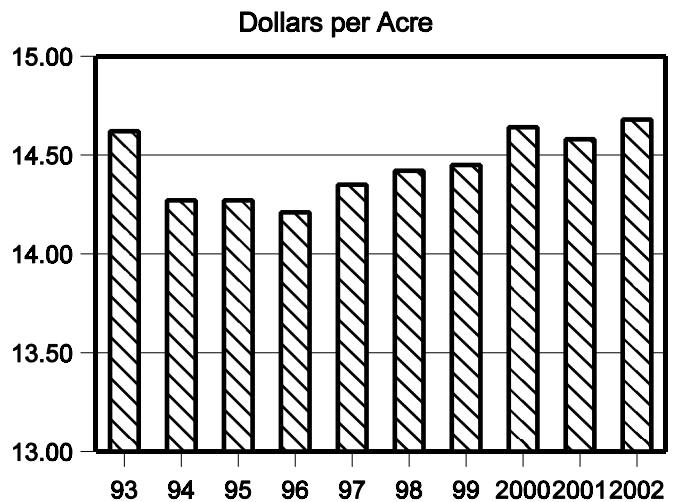
District	No. of Reports ^{1/}	Dollars per Acre		No. of Reports ^{1/}	Extra Charge for High Yield	
		Range	Avg.		¢ per Bu.	Above Bushels
NW	33	12-20	13.67	28	13.0	36
WC	28	10-22	13.38	22	13.6	33
SW	38	12-20	13.60	31	13.4	33
NC	41	12-25	14.45	28	13.3	35
C	48	10-23	13.50	37	12.7	35
SC	55	12-25	14.01	43	12.9	34
NE	20	14-22	18.23	3	8.3	57
EC	28	12-25	18.30	3	11.3	53
SE	23	13-20	16.46	4	11.5	46
STATE	314	10-25	14.68	199	13.0	35

^{1/} Reports are counted in each district where combining was done; thus some reports are included in more than one district.

HISTORICAL CUSTOM RATES FOR GRAIN SORGHUM HARVESTING

Year	Dollars Per Acre	Extra Charge for High Yield	
		¢ per Bushel	Above Bushels
1987	13.22	11.2	33
1988	13.61	11.9	32
1989	13.58	11.3	34
1990	14.23	11.6	36
1991	13.50	11.8	33
1992	14.15	11.8	36
1993	14.62	12.0	34
1994	14.27	12.0	35
1995	14.27	11.9	36
1996	14.21	12.3	36
1997	14.35	12.5	37
1998	14.42	12.4	37
1999	14.45	12.7	36
2000	14.64	12.6	34
2001	14.58	12.9	35
2002	14.68	13.0	35

GRAIN SORGHUM HARVESTING



GRAIN HARVESTING

CORN: The charge to have corn custom harvested in 2002 was \$19.15 per acre with some operators adding an average extra charge of 14.8 cents per bushel for yields above 87 bushels per acre. This is a decrease of 28 cents per acre from the previous year.

CUSTOM RATES FOR COMBINE HARVESTING OF CORN, BY DISTRICTS, 2002

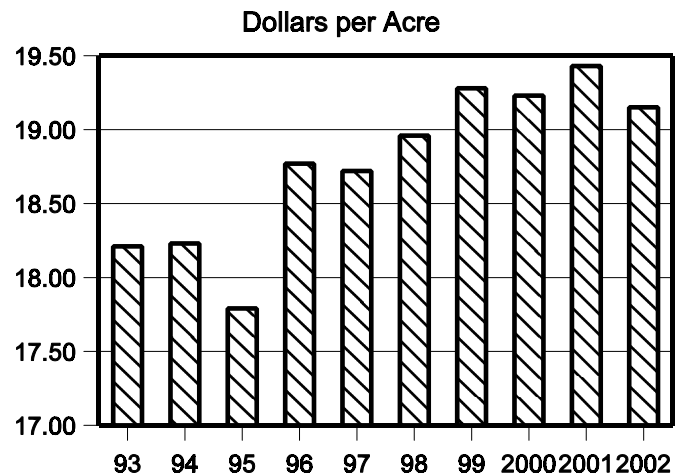
Dist.	No. of Rpts. <u>1/</u>	Cents per Bushel		No. of Rpts. <u>1/</u>	Dollars per Acre		No. of Rpts. <u>1/</u>	Extra Charge for High Yields	
		Range	Avg.		Range	Avg.		¢ Per Bushel	Above Bushels
NW	38	13-32	23	10	12-25	18.00	3	18.0	90
WC	17	15-30	24	6	12-20	16.25	5	14.0	66
SW	36	12-30	24	6	14-20	17.50	<u>2/</u>		
NC	14	16-29	24	14	13-27	19.86	4	16.0	90
C	16	15-25	22	10	12-20	17.10	4	16.5	71
SC	36	15-29	24	13	12-25	19.62	3	16.7	85
NE	9	20-25	23	48	10-25	20.00	8	12.6	103
EC	4	16-25	22	39	12-25	19.73	<u>2/</u>		
SE	<u>2/</u>			21	16-22	18.17	<u>2/</u>		
STATE	172	12-32	24	167	10-27	19.15	33	14.8	87

1/ Reports are counted in districts where combining was done; thus some reports are included in more than one district. 2/ Insufficient reports; included in State totals.

HISTORICAL CUSTOM RATES FOR CORN HARVESTING

Year	Dollars per Acre	Extra Charge for High Yield		Flat Rate Charge
		¢ per Bushel	Above Bushels	¢ per Bushel
1987	17.71	10.5	58	20
1988	17.78	12.2	64	22
1989	18.64	13.0	66	19
1990	18.27	12.1	78	21
1991	18.30	9.5	58	21
1992	18.35	10.7	67	22
1993	18.21	11.8	58	21
1994	18.23	10.1	65	22
1995	17.79	12.4	62	21
1996	18.77	12.6	63	23
1997	18.72	12.3	66	23
1998	18.96	12.7	59	23
1999	19.28	12.0	70	24
2000	19.23	14.7	66	23
2001	19.43	11.9	48	23
2002	19.15	14.8	87	24

CORN HARVESTING



GRAIN HARVESTING

SOYBEANS: The charge to harvest soybeans decreased by 19 cents per acre to \$19.29. Some operators added an extra charge averaging 13.4 cents per bushel for yields above 28 bushels per acre. Some respondents reported a flat rate per bushel harvesting charge, but there were too few reports to publish the data.

CUSTOM RATES FOR COMBINE HARVESTING OF SOYBEANS, 2002

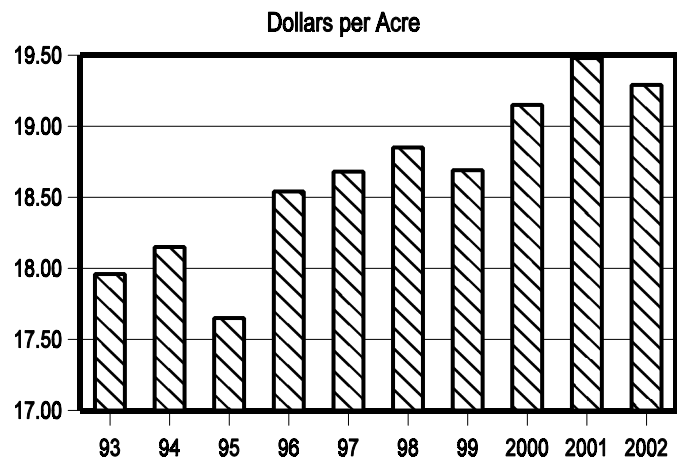
District	No. of Rpts. ^{1/}	Dollars per Acre		No. of Rpts. ^{1/}	Extra Charge for High Yield	
		Range	Avg.		¢ per Bu.	Above Bushels
NW	27	12-25	19.83	11	12.7	27
WC	11	13-26	18.36	6	13.3	28
SW	27	13-28	21.19	7	13.6	28
NC	38	13-26	19.53	10	13.8	24
C	35	12-25	17.66	13	12.8	28
SC	51	13-26	19.52	10	13.2	29
NE	69	15-28	20.53	3	13.0	37
EC	50	13-25	18.91	<u>1/</u>		30
SE	35	13-22	16.84	6	15.7	24
STATE	343	12-28	19.29	68	13.4	28

^{1/} Reports are counted in each district where combining was done; thus some reports are included in more than one district.

HISTORICAL CUSTOM RATES FOR SOYBEAN HARVESTING

Year	Dollars Per Acre	Extra Charge for High Yield	
		¢ per Bushel	Above Bushels
1987	17.46	12.4	24
1988	17.31	12.1	24
1989	17.58	12.3	26
1990	17.92	13.0	25
1991	18.07	12.1	22
1992	18.63	12.5	22
1993	17.96	12.5	23
1994	18.15	12.2	25
1995	17.65	12.2	25
1996	18.54	12.7	24
1997	18.68	12.4	26
1998	18.85	12.8	27
1999	18.69	13.0	25
2000	19.15	12.5	25
2001	19.48	12.7	24
2002	19.29	13.4	28

SOYBEAN HARVESTING



GRAIN HARVESTING

SUNFLOWERS: Custom harvesting of sunflowers averaged \$17.80 per acre in 2002. This compares to the average of \$17.93 per acre in 2001.

CUSTOM RATES FOR COMBINE HARVESTING OF SUNFLOWERS, 2002

Dist.	Number of Rpts. <u>1/</u>	Dollars per Acre	
		Range	Avg.
NW	14	14.00-23.00	18.00
WC	5	13.00-22.00	17.00
SW	9	13.00-23.00	18.56
NC	11	13.00-27.00	17.27
C	8	14.00-20.00	16.75
SC	13	14.00-25.00	17.54
NE	<u>2/</u>		
EC	4	18.00-25.00	20.75
SE	3	16.50-18.00	17.17
ST	68	13.00-27.00	17.80

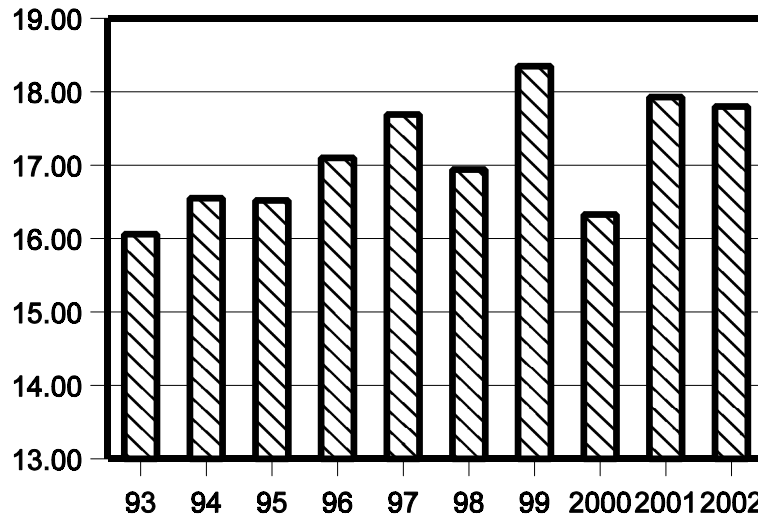
HISTORICAL CUSTOM RATES FOR SUNFLOWER HARVESTING

Year	Dollars per Acre	Extra Charges for High Yield	
		¢ per Bushel	Above Bushels
1992	16.88	<u>2/</u>	<u>2/</u>
1993	16.06	12.0	27
1994	16.55	11.3	37
1995	16.52	<u>2/</u>	<u>2/</u>
1996	17.10	11.0	30
1997	17.69	11.6	18
1998	16.94	11.9	37
1999	18.35	12.0	34
2000	16.33	12.7	30
2001	17.93	13.8	26
2002	17.80	13.1	21

1/ Reports are counted in each district where combining was done; thus, some reports are included in more than one district. 2/ Insufficient data to publish; included in State totals.

SUNFLOWER HARVESTING

Dollars per Acre



SEED CLEANING

Wheat seed cleaning with treatment averaged 86 cents per bushel. Rates for cleaning wheat without treatment averaged 46 cents per bushel. The average cost for cleaning soybeans with treatment was \$1.37 per bushel, while the cost excluding treatment averaged 47 cents. Cleaning alfalfa seed without treatment cost 25 cents per pound and the average reported charge for cleaning red clover seed without treatment was 27 cents per pound. There were not enough reports for cleaning red clover or alfalfa seed with treatment to be published.

CUSTOM RATES FOR SEED CLEANING, 2002

Dist.	WHEAT						SOYBEANS					
	With Treatment			Without Treatment			With Treatment			Without Treatment		
	Number of Rpts.	Cents per Bushel		Number of Rpts.	Cents per Bushel		Number of Rpts.	Cents per Bushel		Number of Rpts.	Cents per Bushel	
		Range	Avg.		Range	Avg.		Range	Avg.		Range	Avg.
NW	6	35-75	48	17	30-70	44	-	-	-	-	-	-
WC	7	33-130	64	26	30-60	42	-	-	-	-	-	-
SW	<u>1/</u>			32	20-85	43	-	-	-	-	-	-
NC	18	40-180	105	37	28-100	48	-	-	<u>1/</u>	-	-	-
C	18	40-165	81	47	25-80	48	-	-	3	42-50	45	-
SC	19	30-130	68	51	25-100	46	-	-	-	-	-	-
NE	3	55-150	104	9	25-55	43	3	55-205	137	4	25-55	46
EC	4	127-170	155	15	30-75	52	<u>1/</u>	-	-	<u>1/</u>	-	-
SE	7	30-150	110	23	25-60	42	3	30-135	95	10	25-60	44
ST	83	25-180	86	257	20-100	46	8	30-270	137	20	25-75	47

1/ Insufficient reports; included in State totals.

HISTORICAL CUSTOM RATES FOR SEED CLEANING

Crop	1997	1998	1999	2000	2001	2002
Wheat (Cents/Bushel)						
With Treatment	96	87	91	94	103	86
Without Treatment	41	43	44	46	46	46
Soybeans (Cents/Bushel)						
With Treatment	91	68	109	81	126	137
Without Treatment	46	44	46	46	50	47
Alfalfa (Cents/Pound)						
With Treatment	<u>1/</u>	<u>1/</u>	<u>1/</u>	-	<u>1/</u>	<u>1/</u>
Without Treatment	18	22	18	<u>1/</u>	13	25
Red Clover (Cents/Pound)						
With Treatment	<u>1/</u>	<u>1/</u>	<u>1/</u>	-	<u>1/</u>	<u>1/</u>
Without Treatment	17	20	13	<u>1/</u>	12	27

1/ Insufficient data to publish; included in State totals.

GRAIN HAULING

Custom rates for hauling wheat, grain sorghum, corn, and soybeans from the field to farm or to the nearest elevator increased from 2001 to 2002. The overall average charge for these four crops was 13.6 cents per bushel with an extra charge of 1.1 cents per bushel per mile over 16 miles. This compares with 2001 averages of 12.2 cents per bushel plus the 1.1 cent a bushel per mile over 13 miles. Only reports which included both a mileage limit and a per mile charge for additional miles were tabulated in the over basic mileage column.

CUSTOM RATES FOR HAULING GRAIN FROM FIELD TO FARM STORAGE OR ELEVATOR, 2002

District	No. of Reports	Cents per Bu.	Miles Limit	Cents/bu. /Mile Over Basic Mileage	No. of Reports	Cents per Bu.	Miles Limit	Cents/bu. /Mile Over Basic Mileage
WHEAT				GRAIN SORGHUM				
NW	36	12.7	13	0.9	13	12.2	12	1.0
WC	41	13.0	13	1.2	18	14.1	12	1.0
SW	44	14.1	13	0.5	20	12.6	11	0.6
NC	48	12.9	13	1.1	27	12.7	14	0.9
C	53	12.7	14	0.5	28	12.4	15	0.5
SC	76	12.7	11	0.8	30	12.6	12	0.3
NE	37	15.9	21	1.9	20	12.5	21	2.5
EC	33	13.6	17	0.7	20	13.4	10	0.7
SE	27	12.4	15	1.8	15	12.5	12	2.2
STATE	395	13.3	15	1.0	191	12.6	14	1.1
CORN				SOYBEANS				
NW	10	13.2	13	0.9	8	11.9	12	0.9
WC	7	11.1	11	1.0	6	13.0	17	1.0
SW	9	14.0	13	0.7	4	13.0	8	0.5
NC	13	13.4	12	0.9	19	12.9	13	0.5
C	9	10.8	13	0.6	20	11.5	14	0.3
SC	13	9.9	11	0.3	23	12.7	16	0.3
NE	40	15.7	21	1.9	43	15.9	21	1.9
EC	27	12.9	17	1.3	32	12.9	14	0.7
SE	12	11.7	14	0.5	20	12.3	12	1.9
STATE	140	13.2	17	1.2	175	13.3	16	1.2
Region	No. of Reports	Cents per Cwt.	Miles Limit	Cents/Cwt. /Mile Over Basic Mileage				
Sunflowers								
West	10	13.8	15	0.7				
Central	17	19.6	13	0.5				
Eastern	9	12.7	16	1.3				
State	36	18.0	15	0.8				

1/ Insufficient reports; included in State totals.

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 \$5.68 per ton, up from \$5.50 in 2001. Operations which included only chopping and hauling averaged \$4.96 per ton, up 9 cents from 2001, chopping only averaged \$3.17, compared to \$3.09 in 2001, and hauling only averaged \$2.29, up from \$2.16 last year.

CUSTOM RATES FOR MAKING SILAGE, PER TON, 2002

District	Chopping, Hauling, & Filling Silo			Chopping & Hauling		
	No. of Rpts.	Dollars per Ton		No. of Rpts.	Dollars per Ton	
		Range	Average		Range	Average
NW	5	4.35-5.50	4.66	8	4.25-5.50	4.73
WC	7	4.00-8.50	6.18	16	4.50-8.00	5.00
SW	7	5.00-8.00	5.85	11	4.00-6.00	4.84
NC	7	4.25-8.00	6.04	12	4.50-5.50	4.98
C	9	4.50-7.00	5.19	11	4.00-6.50	5.08
SC	18	4.00-8.00	5.89	13	4.25-5.50	4.81
NE	7	4.50-7.00	5.30	15	4.00-7.25	5.05
EC	5	4.00-6.00	5.45	6	5.00-6.25	5.33
SE	2	6.00-7.00	6.50	1/		
STATE	67	4.00-8.50	5.68	94	4.00-8.00	4.96

1/ Insufficient reports; included in State totals.

SILAGE CHOPPING, HAULING, 2002

District	Chopping Only			Hauling Only		
	No. of Rpts.	Dollars per Ton		No. of Rpts.	Dollars per Ton	
		Range	Average		Range	Average
NW	4	2.50-4.25	3.00	3	2.13-2.50	2.30
WC	7	2.25-4.00	2.86	5	2.25-2.75	2.35
SW	7	2.25-4.60	2.91	7	2.00-2.50	2.25
NC	7	2.25-6.00	3.68	4	2.00-2.25	2.19
C	9	2.50-5.00	3.65	5	2.00-2.50	2.29
SC	12	2.00-4.00	2.90	9	2.00-2.75	2.25
NE	3	3.00-4.00	3.33	1/		
EC	3	2.40-3.75	3.05	3	2.25-2.45	2.37
SE	-			-		
STATE	52	2.00-6.00	3.17	38	2.00-2.75	2.29

1/ Insufficient reports; included in State totals.

HAYING

Mowing or swathing hay cost an average of \$8.42 per acre, 22 cents more than in 2001. Mowing or swathing forage cost \$9.63 per acre on average. Mowing or swathing with conditioning was \$8.59 per acre, 9 cents higher than the 2001 average. The average charge for sideraking hay in 2002 was \$2.95 per acre, 7 cents higher than the previous year.

CUSTOM RATES FOR MOWING OR SWATHING, 2002

District	Hay			Forage		
	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre	
		Range	Average		Range	Average
NW	20	4.50-15.00	9.25	6	8.00-12.50	10.83
WC	14	8.00-15.00	9.86	6	10.00-12.00	10.75
SW	24	7.00-10.00	8.69	8	8.00-12.00	9.50
NC	17	7.00-10.00	8.25	8	6.00-12.00	9.25
C	23	3.50-10.00	8.00	8	6.00-12.00	8.81
SC	45	7.00-12.00	8.53	14	8.00-12.00	8.50
NE	21	5.00-12.00	7.97	-		
EC	14	3.00-9.50	7.43	4	7.00-12.00	9.25
SE	20	4.50-10.00	7.85	3	6.00-14.00	9.67
STATE	198	3.00-15.00	8.42	57	6.00-14.00	9.63

CUSTOM RATES FOR SWATHING & CONDITIONING AND SIDERAKING, 2002

District	Swathing and Conditioning			Sideraking		
	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre	
		Range	Average		Range	Average
NW	15	4.50-12.00	8.85	7	1.00-5.00	2.93
WC	25	8.00-10.00	9.34	4	2.00-3.00	2.25
SW	22	7.50-12.00	8.83	9	2.00-5.00	3.77
NC	23	6.00-10.00	8.00	8	2.50-4.50	3.19
C	42	6.00-12.00	8.29	12	2.00-4.00	2.79
SC	66	6.00-12.00	8.66	23	1.00-5.00	2.74
NE	18	3.00-12.00	8.56	5	2.00-4.00	3.00
EC	17	6.00-10.00	8.09	12	1.00-5.00	2.88
SE	25	7.00-14.00	8.72	14	1.50-5.00	3.00
STATE	253	3.00-14.00	8.59	94	1.00-5.00	2.95

HAYING

Custom baling of small square bales with wire cost an average of 58 cents per bale with twine averaged 57 cents per bale in 2002. Large round bales weighing under 1500 lbs. without net wrapping cost an average of \$7.67 per bale, while bales weighing the same but being net wrapped cost an average of \$7.94 per bale. Large round bales weighing over 1500 lbs. without net wrapping cost an average of \$7.73 per bale. Bales of the same size but being net wrapped cost an average of \$8.74 per bale. The charge for large square bales weighing about one ton averaged \$11.20, down 30 cents from 2001.

CUSTOM RATES FOR BALING HAY, 2002

Type of Bale	No. of Rpts.	Dollars per Bale	
		Range	Average
Small: Square w/Wire	57	.30-1.20	.58
Square w/Twine	56	.20-.90	.57
Large: Round (under 1,500 lbs.) wo/net	211	4.00-15.00	7.67
Round (under 1,500 lbs.) w/net	100	5.00-12.00	7.94
Round (over 1,500 lbs.) wo/net	126	5.50-12.00	7.73
Round (over 1,500 lbs.) w/net	100	5.00-15.00	8.74
Square (approx. 1 ton)	45	6.00-16.00	11.20

CUSTOM RATES FOR BALING, SQUARE BALES, 2002

District	Small Square With Wire			Small Square With Twine			Large Square		
	No. of Rpts.	Cents per Bale		No. of Rpts.	Cents per Bale		No. of Rpts.	Dollars per Bale	
		Range	Average		Range	Average		Range	Average
NW	1/			3	40-70	57	-		
WC	1/			5	50-75	64	5	10.00-13.50	12.30
SW	1/			10	50-90	66	9	8.00-16.00	12.90
NC	3	60-100	80	3	30-90	57	6	8.00-22.00	12.20
C	5	45-100	59	5	45-80	61	6	10.00-14.00	12.30
SC	13	30-100	52	7	45-80	56	9	7.00-17.00	11.50
NE	6	45-100	66	8	25-80	50	1/		
EC	11	40-75	52	10	40-90	53	4	7.00-14.00	9.50
SE	15	10-120	57	5	20-80	48	4	7.00-10.00	8.38
STATE	57	30-120	58	56	20-90	57	45	6.00-16.00	11.20

1/ Insufficient reports; included in State totals.

CUSTOM RATES FOR BALING, LARGE ROUND BALES, 2002

Dist.	Without Net						With Net					
	Under 1,500 lbs.			Over 1,500 lbs.			Under 1,500 lbs.			Over 1,500 lbs.		
	No. of Rpts.	Dol. per Bale		No. of Rpts.	Dol. per Bale		No. of Rpts.	Dol. per Bale		No. of Rpts.	Dol. per Bale	
Range		Avg.	Range		Avg.	Range		Avg.	Range		Avg.	
NW	14	6.00-8.00	7.00	6	6.50-8.50	7.67	11	6.00-9.00	7.38	10	5.00-9.00	7.20
WC	21	4.00-10.00	6.88	9	7.00-10.00	8.11	6	5.00-10.00	7.42	6	6.00-10.00	8.75
SW	11	5.00-12.00	9.00	12	7.00-12.00	8.83	6	5.00-9.00	8.16	15	7.50-13.00	9.75
NC	20	6.00-9.00	7.35	10	5.50-9.00	7.25	13	6.50-9.00	7.96	7	6.25-10.00	7.82
C	29	6.00-10.00	7.25	24	6.00-8.00	6.98	5	7.00-8.75	7.95	11	7.00-9.00	7.98
SC	38	6.00-15.00	7.64	35	6.00-10.00	7.65	26	6.00-12.00	8.05	23	6.50-15.00	8.57
NE	25	6.00-12.00	7.36	18	6.00-9.00	7.53	11	5.50-9.00	7.75	15	7.00-11.00	8.58
EC	21	5.00-14.00	8.22	7	6.50-12.00	8.64	18	5.50-10.00	8.09	5	7.00-11.00	8.90
SE	32	6.00-15.00	8.52	5	7.75-12.00	9.05	4	8.00-10.00	9.00	8	7.00-15.00	11.30
STATE	211	4.00-15.00	7.67	126	5.50-12.00	7.73	100	5.00-12.00	7.94	100	5.00-15.00	8.74

1/ Insufficient reports; included in State totals.

HAYING

Custom rates for hauling small bales from field to farm storage averaged 49 cents per bale in 2002, up 7 cents from 2001. Rates for hauling large bales average \$3.54 per bale or \$5.56 per ton. The custom rate for stacking hay in stacks of 4-6 tons averaged \$48.00 and compares to \$52.00 in 2001.

CUSTOM RATES FOR HAULING SMALL BALES FROM FIELD TO STORAGE, 2002

District	No. of Rpts.	Cents per Bale	
		Range	Average
NW	3	50-60	53
WC	-		
SW	3	40-50	47
NC	-		
C	<u>1/</u>		
SC	5	45-55	51
NE	<u>1/</u>		
EC	8	40-73	48
SE	9	45-75	51
STATE	30	40-75	49

1/ Insufficient reports; included in State totals.

CUSTOM RATES FOR STACKING HAY, 2002

Stack Size (Tons)	No. of Rpts.	Dollars per Stack	
		Range	Average
4-6	6	30.00-55.00	48.00
Over 6	<u>1/</u>		

1/ Insufficient data to publish.

CUSTOM RATES FOR HAULING LARGE BALES FROM FIELD TO STORAGE, 2002

District	No. of Rpts.	Dollars per Bale		No. of Rpts.	Dollars per Ton	
		Range	Average		Range	Average
NW	4	2.00-3.00	2.50	-		
WC	5	2.50-4.00	3.40	<u>1/</u>		
SW	8	2.00-6.00	3.56	<u>1/</u>		
NC	<u>1/</u>			<u>1/</u>		
C	7	2.00-5.00	3.15	<u>1/</u>		
SC	11	1.75-3.50	2.34	-		
NE	6	2.00-8.00	4.83	-		
EC	9	1.50-6.00	3.33	3	3.50-10.00	6.83
SE	8	2.00-8.00	3.93	-		
STATE	59	1.50-8.00	3.54	9	2.50-10.00	5.56

1/ Insufficient reports; included in State totals.

HAYING

Rates per bale for the entire haying operation, including cutting, baling, hauling, and stacking, at \$1.18 per small bale, were down 4 cents from 2001. Large bales, at \$13.90 per bale, were down 25 cents from 2001. Rates reported on a per ton basis averaged \$24.91, up from the 2001 figure of \$23.21.

CUSTOM RATES FOR ENTIRE HAYING OPERATION, PER BALE, 2002

District	Small Bales			Large Bales		
	No. of Rpts.	Cents per Bale		No. of Rpts.	Dollars per Bale	
		Range	Average		Range	Average
NW	-			1/		
WC	-			-		
SW	-			3	11.50-20.00	14.50
NC	-			1/		
C	1/			1/		
SC	-			-		
NE	1/			5	12.00-20.00	15.80
EC	9	100-150	122	10	8.00-19.00	13.58
SE	7	70-150	115	12	11.00-20.00	15.38
STATE	19	70-150	118	35	5.00-20.00	13.90

1/ Insufficient reports; included in State totals.

CUSTOM RATES FOR ENTIRE HAYING OPERATION, PER TON, 2002

Region	No. of Reports	Dollars per Ton		Region	No. of Reports	Dollars per Ton	
		Range	Average			Range	Average
WEST CENTRAL	11	18.00-35.00	23.86	EAST STATE	4	18.00-36.00	25.25
	1/				17	18.00-36.00	24.91

1/ Insufficient reports; included in State totals.

ROTARY MOWING AND TREE SHEARING

The average custom rate for rotary mowing was \$7.58 per acre or \$52.33 per hour in 2002. In 2001, charges were \$7.90 per acre or \$38.17 per hour.

CUSTOM RATES FOR ROTARY MOWING, 2002

Dist.	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Hour	
		Range	Avg.		Range	Avg.
NW	1/			-		
WC	-			1/		
SW	4	7.50-12.00	9.63	-		
NC	-			-		
C	1/			1/		
SC	4	4.00-10.00	7.25	5	30.00-70.00	49.00
NE	4	6.00-8.00	7.38	1/		
EC	4	5.00-8.00	6.84	4	40.00-70.00	55.00
SE	1/			3	50.00-75.00	66.67
STATE	20	4.00-12.00	7.58	15	20.00-75.00	52.33

1/ Insufficient reports; included in State totals.

SKID LOADER TREE SHEARING, 2002

Dist.	No. of Rpts.	Dollars per Hour	
		Range	Avg.
NW	-		
WC	-		
SW	1/		
NC	4	40.00-75.00	53.75
C	1/		
SC	7	40.00-55.00	49.29
NE	3	40.00-65.00	50.00
EC	4	30.00-50.00	42.50
SE	7	35.00-50.00	40.36
STATE	26	30.00-75.00	47.60

1/ Insufficient reports; included in State totals.

LAND TILLAGE

Custom rates for tillage operations vary depending on the area of the State, type of soil tillage practice, size of fields and size of equipment. Average charges for regular disking were \$6.34 per acre, down 14 cents per acre from the 2001 rate. The average charge per acre for one-way disking was \$6.41, 10 cents higher than the 2001 figure of \$6.21. The average offset disking charge of \$6.72 was up 18 cents an acre from the 2001 rate.

CUSTOM RATES FOR DISKING, 2002

Dist.	Disking			One-Way Disk			Offset Disk		
	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre	
		Range	Avg.		Range	Avg.		Range	Avg.
NW	7	4.00-6.50	5.29	1/			6	4.50-8.00	6.42
WC	5	3.50-6.00	4.87	1/			8	5.00-7.00	5.94
SW	7	4.00-9.00	6.36	-			9	5.00-8.00	6.25
NC	3	5.00-6.00	5.50	1/			3	5.00-8.50	7.17
C	12	5.00-7.00	5.96	3	5.25-6.00	5.58	9	5.00-6.75	6.03
SC	12	5.00-8.25	6.38	1/			11	5.00-7.50	5.91
NE	8	5.50-9.00	7.06	-			3	8.50-12.00	9.83
EC	16	5.00-10.00	7.02	-			4	7.25-10.00	8.44
SE	13	4.50-10.00	6.69	1/			4	6.75-12.00	9.06
STATE	83	3.50-10.00	6.34	10	5.00-10.00	6.41	57	4.50-12.00	6.72

1/ Insufficient reports; included in State totals.

In 2002, charges for spiketooth harrowing averaged \$4.82, an increase of 2 cents per acre. The average for springtooth harrowing increased by 72 cents in 2002 to \$4.17 per acre.

CUSTOM RATES FOR HARROWING, 2002

District	Spiketooth Harrow			Springtooth Harrow		
	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre	
		Range	Average		Range	Average
NW	1/			1/		
WC	1/			-		
SW	-			1/		
NC	-			-		
C	1/			4	3.00-5.75	4.44
SC	1/			-		
NE	-			-		
EC	1/			-		
SE	1/			-		
STATE	9	3.50-6.75	4.82	7	3.00-5.75	4.17

1/ Insufficient reports; included in State totals.

LAND TILLAGE

Rates for custom chiseling 4-12 inches deep averaged \$7.61 per acre, an 18 cent per acre decrease from the 2001 rate. Deep chiseling, over 12 inches deep, averaged \$10.33 per acre, an increase of 79 cents from the 2001 average.

CUSTOM RATES FOR CHISELING, 2002

District	Chisel (4-12")			Deep Chisel (Over 12")		
	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre	
		Range	Average		Range	Average
NW	5	4.50-8.00	6.65	3	9.00-11.00	10.00
WC	4	5.00-7.50	6.25	4	5.00-10.00	7.25
SW	6	6.00-7.00	6.50	5	5.00-12.00	8.90
NC	-			<u>1/</u>		
C	7	5.00-10.00	7.36	4	10.00-12.00	11.13
SC	11	5.00-10.00	7.00	4	8.00-12.00	9.50
NE	<u>1/</u>			<u>1/</u>		
EC	8	6.00-12.00	8.63	7	9.00-13.00	10.43
SE	8	6.50-12.00	8.38	<u>1/</u>		
STATE	51	4.50-14.00	7.61	33	5.00-18.00	10.33

1/ Insufficient reports; included in State totals.

The average moldboard plowing rate increased 47 cents per acre to \$9.45, while undercutting operations averaged \$5.38 an acre, remaining steady with 2001.

CUSTOM RATES FOR PLOWING AND UNDERCUTTING, 2002

District	Moldboard Plow			Undercutter (Large "V" Blade)		
	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre	
		Range	Average		Range	Average
NW	<u>1/</u>			15	4.00-7.00	5.24
WC	-			32	3.50-6.00	4.99
SW	<u>1/</u>			23	3.00-7.00	5.43
NC	<u>1/</u>			4	5.00-10.00	7.00
C	4	4.00-10.00	8.00	12	4.00-7.00	5.63
SC	8	6.50-12.00	9.22	6	4.00-6.00	5.58
NE	<u>1/</u>			-		
EC	<u>1/</u>			-		
SE	<u>1/</u>			<u>1/</u>		
STATE	22	4.00-12.00	9.45	93	3.00-10.00	5.38

1/ Insufficient reports; included in State totals.

LAND TILLAGE

The shank cultivator rate was \$6.16 and wheel springtooth cultivation averaged \$5.67 per acre. The table at the bottom shows historical average custom rate charges for land tillage in Kansas.

CUSTOM RATES FOR FIELD CULTIVATION, 2002

District	Shank Cultivator			Wheel Springtooth Cultivator		
	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre	
		Range	Average		Range	Average
NW	9	3.50-8.00	5.28	3	4.50-9.00	6.50
WC	2	5.00-6.00	5.50	<u>1/</u>		
SW	8	4.75-11.00	7.66	<u>1/</u>		
NC	3	5.50-7.50	6.33	<u>1/</u>		
C	15	3.75-8.00	5.38	-		
SC	11	3.50-9.00	5.66	<u>1/</u>		
NE	5	5.50-8.50	6.90	-		
EC	17	5.00-10.00	6.68	<u>1/</u>		
SE	11	4.00-10.00	6.27	3	4.00-7.00	5.50
STATE	81	3.50-11.00	6.16	15	4.00-9.00	5.67

1/ Insufficient reports; included in State totals.

CUSTOM RATES FOR LAND TILLAGE, HISTORICAL AVERAGES

Type of Operation	1994	1995	1996	1997	1998	1999	2000	2001	2002
	Dollars per Acre								
Disking	5.26	5.60	5.46	5.53	5.79	5.70	6.02	6.48	6.34
One-Way Disk	5.07	5.58	5.42	5.05	5.60	5.65	6.36	6.21	6.11
Offset Disk	5.77	5.74	6.02	6.17	6.16	6.29	6.76	6.54	6.72
Spiketooth Harrow	4.04	4.21	4.17	4.65	4.73	4.59	4.56	4.80	4.82
Springtooth Harrow	4.36	4.13	4.34	4.79	4.61	4.50	4.93	5.20	4.03
Chisel 4-12"	6.34	6.76	7.21	6.70	6.96	7.00	7.44	7.79	7.61
Deep Chisel Over 12"	7.72	8.24	8.24	8.76	8.61	8.84	9.13	9.54	10.33
Moldboard Plow	8.78	8.99	8.23	8.95	9.10	9.15	9.00	8.98	9.45
Undercutter	4.93	4.91	4.98	4.86	5.02	5.21	5.49	5.38	5.38
Shank Cultivator	5.12	5.17	5.33	5.33	5.42	5.57	5.66	5.92	6.16
Wheel Springtooth Cultivator	4.69	4.55	4.70	4.74	5.08	5.36	5.20	5.36	5.67

PLANTING (Regular-Till)

Small grain seeding charges averaged \$7.13 per acre, an increase of 64 cents per acre. Grain sorghum charges increased by 41 cents per acre, to \$8.13 per acre, in 2002. The average price charged for planting corn was \$8.54 per acre, compared to \$8.19 per acre in 2001. Soybean seeding charges averaged \$8.47 per acre in 2002. This is an increase of 30 cents per acre from last year. The grass seeding rate increased by 85 cents an acre, to \$9.77 per acre, in 2002. The price for seeding alfalfa-legumes averaged \$9.83 an acre.

CUSTOM RATES FOR REGULAR-TILL PLANTING, 2002

District	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre	
		Range	Average		Range	Average
		SMALL GRAINS			GRAIN SORGHUM	
NW	17	4.00-10.00	6.51	9	4.60-10.00	7.51
WC	22	4.00-9.50	6.23	14	5.00-10.50	8.25
SW	23	4.00-12.00	6.81	11	4.75-10.00	7.11
NC	7	4.50-8.00	6.61	11	6.00-11.00	7.82
C	18	5.00-12.00	7.32	15	6.00-11.00	8.20
SC	23	4.00-13.00	7.55	20	6.00-14.00	9.39
NE	8	6.00-10.00	8.00	3	8.00-12.00	10.00
EC	14	5.00-14.00	7.96	11	5.00-10.00	7.68
SE	15	5.00-15.00	7.75	11	5.00-15.00	7.32
STATE	147	4.00-15.00	7.13	105	4.60-15.00	8.13
		CORN			SOYBEANS	
NW	10	4.60-12.00	7.97	4	4.60-8.50	6.53
WC	14	7.00-12.00	9.14	6	8.00-10.00	9.08
SW	10	5.00-12.00	8.73	2	5.00-10.00	7.50
NC	5	8.00-10.00	8.70	7	6.00-11.00	8.32
C	12	6.00-12.00	9.29	15	6.00-12.00	8.83
SC	20	6.25-13.00	9.39	14	7.00-13.00	9.54
NE	14	5.00-13.00	8.61	10	6.00-13.00	9.15
EC	16	5.00-10.00	7.63	16	6.00-10.00	7.66
SE	12	5.00-9.00	7.04	16	5.00-15.00	7.61
STATE	113	4.60-13.00	8.54	90	4.60-15.00	8.47
		GRASS SEEDING			ALFALFA-LEGUME SEEDING	
NW	-			1/		
WC	1/			1/		
SW	4	5.00-12.00	7.50	5	6.50-16.00	11.30
NC	-			1/		
C	1/			3	6.50-8.00	7.33
SC	1/			3	5.00-8.50	6.83
NE	1/			1/		
EC	4	12.00-15.00	12.75	1/		
SE	6	5.00-15.00	9.00	5	7.50-15.00	11.30
STATE	22	5.00-15.00	9.77	54	5.00-16.00	9.83

1/ Insufficient reports; included in State totals.

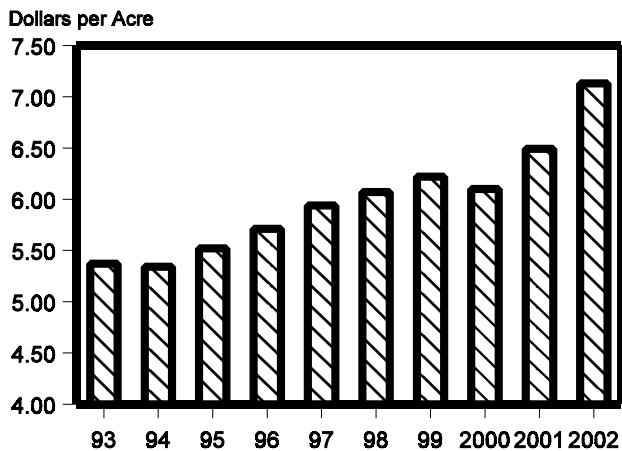
PLANTING

CUSTOM RATES FOR REGULAR-TILL PLANTING, KANSAS HISTORICAL AVERAGES

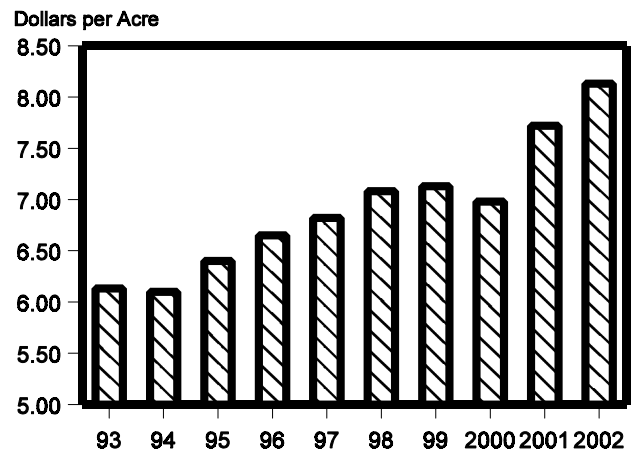
Crops	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Dollars per Acre										
Small Grains	5.37	5.34	5.52	5.71	5.94	6.07	6.22	6.10	6.49	7.13
Grain Sorghum	6.13	6.10	6.40	6.65	6.82	7.08	7.13	6.98	7.72	8.13
Corn	6.41	6.33	6.81	7.19	7.28	7.36	7.53	7.77	8.19	8.54
Soybeans	6.23	6.27	6.69	6.97	7.06	7.38	7.46	8.23	8.17	8.47
Grass	7.37	7.19	7.93	8.50	8.27	7.82	8.37	8.68	8.92	9.77
Alfalfa-Legume	6.42	6.41	7.24	7.29	7.42	7.41	7.76	7.46	8.59	9.83

REGULAR-TILL PLANTING

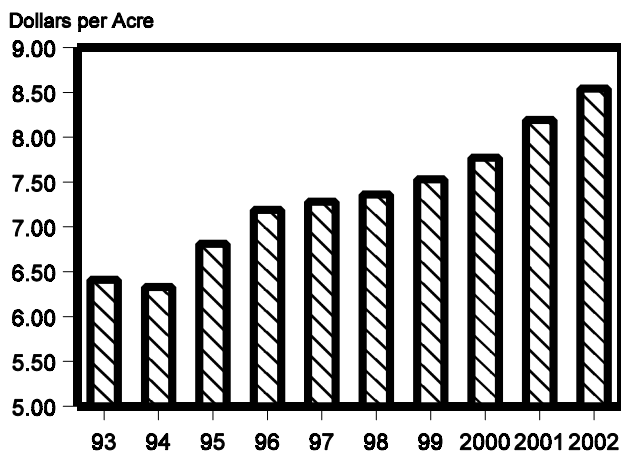
SMALL GRAINS



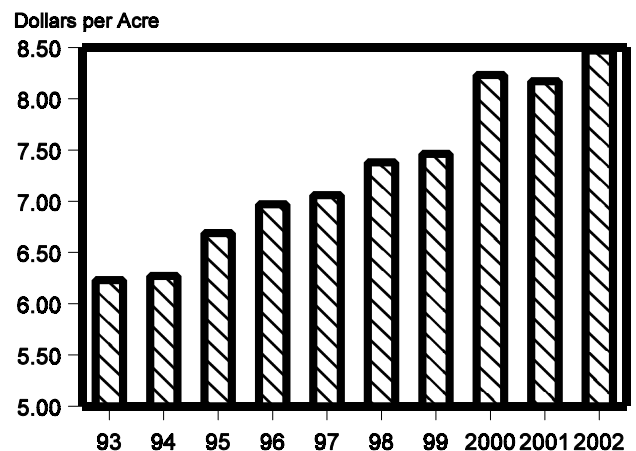
GRAIN SORGHUM



CORN



SOYBEANS



PLANTING (Minimum-Till)

Rates for minimum-till planting of small grains averaged \$10.11 per acre, up from \$9.89 in 2001. Minimum-till grain sorghum planting averaged \$9.91, up 35 cents from last year's rate. Corn planting averaged \$10.04 per acre, a 4 cent increase. Soybean planting averaged \$10.46, compared to last year's average of \$10.50 per acre.

CUSTOM RATES FOR MINIMUM-TILL OR NO-TILL PLANTING, 2002

District	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre		
		Range	Average		Range	Average	
SMALL GRAINS				GRAIN SORGHUM			
NW	16	5.00-12.50	9.20	16	6.50-12.00	9.15	
WC	18	6.50-11.00	8.69	23	4.25-12.00	8.86	
SW	11	6.00-12.00	10.14	8	7.00-12.00	8.88	
NC	19	8.00-16.50	11.39	20	7.00-16.50	10.28	
C	32	5.50-16.00	10.84	29	6.00-13.00	10.34	
SC	19	6.00-13.00	9.66	21	6.00-14.00	10.69	
NE	15	6.50-15.00	10.30	7	7.00-14.00	10.86	
EC	18	7.00-14.00	10.08	12	6.00-15.00	9.79	
SE	10	6.00-15.00	9.98	8	7.00-15.00	10.44	
STATE	158	5.00-16.50	10.11	144	4.25-16.50	9.91	
CORN				SOYBEANS			
NW	16	4.00-10.50	8.44	3	7.50-9.00	8.17	
WC	15	8.00-12.00	9.87	7	8.00-12.00	9.86	
SW	14	7.25-12.00	10.81	3	9.00-12.00	11.00	
NC	13	8.00-16.50	10.50	11	8.00-13.00	10.16	
C	16	4.00-13.00	10.16	21	8.00-15.00	10.98	
SC	16	7.50-14.50	11.31	15	6.75-14.00	10.78	
NE	23	6.00-14.00	10.43	24	7.50-14.00	11.19	
EC	15	6.00-15.00	9.63	16	6.00-15.00	9.44	
SE	5	7.00-10.00	8.80	11	6.00-15.00	10.09	
STATE	123	4.00-16.50	10.04	111	6.00-15.00	10.46	

CUSTOM RATES FOR MINIMUM-TILL OR NO-TILL PLANTINGS, HISTORICAL AVERAGES

Crops	1994	1995	1996	1997	1998	1999	2000	2001	2002
Dollars per Acre									
Small Grains	7.41	8.31	9.26	8.88	8.91	9.76	9.77	9.89	10.11
Grain Sorghum	6.96	7.70	8.06	8.12	8.70	8.85	9.16	9.56	9.91
Corn	7.47	8.39	8.44	8.46	8.65	8.96	9.40	10.00	10.04
Soybeans	7.53	8.61	8.87	8.88	9.29	9.61	9.96	10.50	10.46

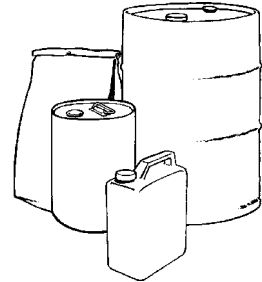
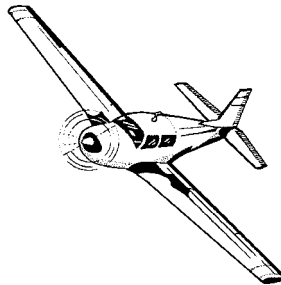
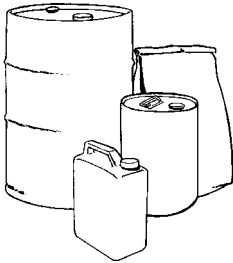
CHEMICAL APPLICATIONS

The custom rates for chemical applications presented here include the cost of machine, power, and operator, but the cost of the chemicals is excluded. Rates charged for crop cultivation with fertilizer application averaged \$6.19 per acre, while cultivation without fertilizer application averaged \$6.01. This compares with \$6.77 and \$6.25 per acre, respectively, in 2001.

CUSTOM RATES FOR ROW CROP CULTIVATION, 2002

Region	With Fertilizer			Without Fertilizer		
	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre	
		Range	Average		Range	Average
WEST	9	3.50-9.50	6.81	9	2.00-8.00	5.44
CENTRAL	8	3.00-10.00	6.13	10	3.83-8.00	6.74
EAST	6	3.75-9.50	5.38	9	2.00-8.00	5.74
STATE	23	3.00-10.00	6.19	28	2.00-8.00	6.01

1/ Insufficient reports; included in State totals.



Dry fertilizer applications averaged \$3.58 per acre, 5 cents more than in 2001. Liquid fertilizer was applied for an average charge of \$3.72 per acre, up 15 cents from last year.

CUSTOM RATES FOR FERTILIZER APPLICATION, 2002

District	Dry Fertilizer			Liquid Fertilizer		
	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre	
		Range	Average		Range	Average
NW	18	2.00-4.25	3.51	32	3.00-4.50	3.69
WC	18	2.50-4.50	3.56	26	2.00-9.00	3.71
SW	33	2.10-5.50	3.60	43	2.50-6.50	4.01
NC	49	3.00-4.25	3.74	54	3.00-6.50	3.71
C	41	2.75-4.50	3.46	69	2.00-6.50	3.33
SC	79	2.50-5.50	3.35	76	2.00-5.50	3.38
NE	54	3.00-5.25	3.94	56	3.25-8.75	4.30
EC	40	2.75-6.00	3.92	30	3.00-6.00	4.18
SE	41	2.50-4.50	3.31	38	2.80-4.50	3.58
STATE	373	2.00-6.00	3.58	424	2.00-9.00	3.72

CHEMICAL APPLICATIONS

Custom chemical applicators charged an average of \$5.90 per acre to apply anhydrous ammonia, 29 cents more than the 2001 average.

CUSTOM RATES FOR APPLICATION OF ANHYDROUS AMMONIA, 2002

District	No. of Rpts.	Dollars per Acre	
		Range	Average
NW	5	2.00-7.00	4.60
WC	<u>1/</u>		
SW	11	5.25-8.00	6.47
NC	7	2.00-7.50	5.46
C	10	2.50-8.00	5.73
SC	6	3.50-7.00	5.17
NE	9	4.00-8.00	6.82
EC	10	2.00-8.00	5.85
SE	5	3.25-8.00	5.45
STATE	75	2.00-8.00	5.90

The average cost for aerial application of herbicide was \$4.52 per acre, up 13 cents from 2001. When herbicides were applied with a ground rig, the average cost was \$3.81, 9 cents above 2001.

CUSTOM RATES FOR HERBICIDE APPLICATION, 2002

District	Aerial			Ground Rig		
	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre	
		Range	Average		Range	Average
NW	9	4.00-5.00	4.52	40	3.00-4.50	3.73
WC	4	3.50-4.00	3.86	40	2.75-4.50	3.54
SW	14	3.00-5.00	4.17	41	2.50-5.00	3.65
NC	8	3.50-4.25	3.97	70	3.00-4.50	3.76
C	16	2.60-5.00	4.52	74	2.75-5.00	3.53
SC	5	4.00-8.00	5.04	72	2.50-6.30	3.52
NE	3	4.25-6.00	5.00	74	3.50-6.00	4.36
EC	<u>1/</u>			43	3.00-6.00	4.41
SE	5	4.00-6.00	5.20	53	2.55-4.75	3.76
STATE	66	2.60-8.00	4.52	507	2.50-6.30	3.81

1/ Insufficient reports; included in State total.

CHEMICAL APPLICATIONS

The average cost for aerial application of insecticide was \$4.49 per acre, up 7 cents from last year. When insecticides were applied with a ground rig, the average cost was \$3.90 per acre, up 13 cents from the 2001 rate.

CUSTOM RATES FOR INSECTICIDE APPLICATION, 2002

District	Aerial			Ground Rig		
	No. of Rpts.	Dollars per Acre		No. of Rpts.	Dollars per Acre	
		Range	Average		Range	Average
NW	10	4.00-5.00	4.53	27	3.00-4.50	3.81
WC	3	3.95-4.25	4.07	24	2.75-9.00	3.81
SW	16	3.00-5.00	4.23	23	2.50-6.00	3.80
NC	8	3.75-4.50	4.19	36	3.20-5.50	3.77
C	4	4.00-8.15	5.41	46	2.75-5.00	3.68
SC	1/			48	2.75-6.00	3.60
NE	-			44	3.25-6.00	4.39
EC	1/			27	3.00-7.00	4.48
SE	6	3.50-6.00	4.58	32	2.55-6.00	3.87
STATE	51	3.00-8.15	4.49	307	2.50-9.00	3.90

1/ Insufficient reports; included in State total.

CUSTOM RATES FOR CHEMICAL APPLICATION, HISTORICAL AVERAGES

Type of Operation or Application	1994	1995	1996	1997	1998	1999	2000	2001	2002
Dollars per Acre									
Cultivation with Fertilizer	5.69	6.08	5.78	5.91	6.43	5.61	6.48	6.77	6.19
Cultivation without Fertilizer	5.16	5.31	5.74	5.96	6.11	5.88	5.75	6.25	6.01
Dry Fertilizer	2.91	2.93	3.02	3.06	3.12	3.23	3.40	3.53	3.58
Liquid Fertilizer	3.09	3.09	3.14	3.19	3.29	3.33	3.50	3.57	3.72
Anhydrous Ammonia	4.87	5.09	5.56	5.24	5.59	5.28	5.67	5.61	5.90
Herbicide									
Aerial	4.46	3.89	4.20	3.30	4.11	4.15	4.20	4.39	4.52
Ground Rig	3.18	3.25	3.32	3.28	3.39	3.48	3.59	3.72	3.81
Insecticide									
Aerial	4.53	3.81	4.20	3.91	4.11	4.16	4.19	4.42	4.49
Ground Rig	3.24	3.22	3.34	3.30	3.41	3.54	3.66	3.77	3.90

FEED PREPARATION

Rates for custom feed preparations are those generally charged by grain elevators and feed mills. Rates charged in 2002 are very close to those reported in 2001. Reports averaged 36 cents per cwt. for grinding grain, 33 cents per cwt. for rolling grain, 74 cents per cwt. for grinding hay, 26 cents per cwt. for mixing, 51 cents per cwt. for rolling and mixing, and 53 cents per cwt. for grinding and mixing.

CUSTOM RATES FOR FEED PREPARATION, 2002

District	Grinding Grain			Rolling Grain			Grinding Hay		
	No. of Rpts.	Cents per Cwt.		No. of Rpts.	Cents per Cwt.		No. of Rpts.	Cents per Cwt.	
		Range	Avg.		Range	Avg.		Range	Avg.
NW	1/			6	10-35	24	-		
WC	7	14-50	36	10	10-50	33	1/		
SW	5	30-40	37	6	30-40	35	1/		
NC	13	25-50	37	21	25-65	36	1/		
C	7	20-60	40	15	20-55	31	4	20-140	90
SC	11	25-50	35	20	20-50	31	3	40-100	62
NE	11	24-40	31	10	20-40	29	1/		
EC	9	25-50	35	9	30-60	43	-		
SE	9	26-45	36	14	26-45	33	-		
STATE	71	14-60	36	111	10-65	33	13	20-140	74

1/ Insufficient reports; included in State totals.

District	Mixing			Rolling and Mixing			Grinding and Mixing		
	No. of Rpts.	Cents per Cwt.		No. of Rpts.	Cents per Cwt.		No. of Rpts.	Cents per Cwt.	
		Range	Avg.		Range	Avg.		Range	Avg.
NW	5	15-35	19	1/			-		
WC	7	10-40	24	5	25-60	45	3	40-55	48
SW	7	20-40	30	6	30-80	57	3	30-80	60
NC	14	10-70	33	12	35-75	48	5	35-60	46
C	14	14-55	25	11	20-70	43	4	20-75	43
SC	19	20-50	26	13	30-60	52	6	45-60	53
NE	8	14-35	24	10	25-70	50	8	25-70	47
EC	9	15-40	29	8	20-100	70	4	50-100	80
SE	12	10-40	23	11	26-75	51	12	25-75	56
STATE	95	10-70	26	78	20-100	51	45	20-100	53

1/ Insufficient reports; included in State totals.

FEED PREPARATION

Pelleting feed operations averaged 76 cents per cwt., 6 cents higher than in 2001. The charge for grinding, mixing, and pelleting operations combined was an average of 119 cents per cwt., 1 cent higher than in 2001. Sacking operations, excluding the cost of sacks, averaged 95 cents per cwt., 4 cents higher than last year.

CUSTOM RATES FOR FEED PREPARATION, 2002

District	Pelleting Only			Grinding, Mixing and Pelleting			Sacking		
	No. of Rpts.	Cents per Cwt.		No. of Rpts.	Cents per Cwt.		No. of Rpts.	Cents per Cwt.	
		Range	Avg.		Range	Avg.		Range	Avg.
NW	-			-			4	75-170	106
WC	-			-			5	30-160	98
SW	<u>1/</u>			<u>1/</u>			5	40-84	59
NC	-			-			9	60-180	116
C	<u>1/</u>			-			8	70-160	107
SC	3	60-75	65	<u>1/</u>			12	30-200	89
NE	-			-			9	50-200	116
EC	<u>1/</u>			<u>1/</u>			10	30-180	107
SE	3	80-100	87	<u>1/</u>			13	50-100	74
STATE	9	30-125	76	6	60-150	119	75	30-200	95

1/ Insufficient reports; included in State totals.

CUSTOM RATES FOR FEED PREPARATION, HISTORICAL AVERAGES

Type of Preparation	1994	1995	1996	1997	1998	1999	2000	2001	2002
Cents per Cwt.									
Grinding Grain	29	30	29	29	33	31	35	34	36
Rolling Grain	27	28	28	28	30	29	30	31	33
Grinding Hay	56	49	75	-	56	-	-	66	74
Mixing	21	20	21	22	22	22	23	23	26
Rolling and Mixing	43	40	44	42	44	45	42	49	51
Grinding and Mixing	43	45	46	44	49	46	51	53	53
Pelleting	72	69	72	67	77	73	82	70	76
Grinding, Mixing, and Pelleting	107	108	118	95	99	122	126	118	119
Sacking (excluding sacks)	76	69	72	73	76	88	93	91	95

FEED DELIVERY

There are many different methods of charging for bulk feed deliveries. Rates for four of the most commonly reported methods are presented below. Method 1 has a charge per load plus a charge per mile. Other types of charges were reported but could not be summarized for this report. Many operators also charge extra for miles beyond a specified limit. For all methods, the average extra charge was \$1.19 per mile after 7.7 miles.

CUSTOM RATES FOR FEED DELIVERY, 2002

District	Method 1 (Charge per Load plus Mileage)			Method 2 (Charge per Mile)			Method 3 (Charge per Ton)			Method 4 (Charge per Load)			Extra Charge (All Methods)			
	No. of Reports	Dollars per Load	Dollars + per Mile	Avg. Load (Tons)	No. of Reports	Dollars per Mile	Avg. Load (Tons)	No. of Reports	Dollars per Ton	Avg. Load (Tons)	No. of Reports	Dollars per Load	Avg. Load (Tons)	No. of Reports	Maxim. Miles	Extra Charge \$ per Mile
NW	<u>1/</u>				<u>1/</u>			<u>1/</u>			<u>1/</u>			<u>1/</u>		
WC	<u>1/</u>				<u>1/</u>			<u>1/</u>			<u>1/</u>			<u>1/</u>		
SW	<u>1/</u>				-			<u>1/</u>			3	25.33	7.7	<u>1/</u>		
NC	9	12.83	0.99	7.1	4	1.76	7.3	-			6	21.92	5.9	<u>1/</u>		
C	8	20.88	1.19	9.1	4	1.94	4.5	<u>1/</u>								
SC								<u>1/</u>								
NE	<u>1/</u>				3	1.37	4.3	<u>1/</u>			9	16.56	5.5	3	8.33	1.15
EC	4	21.88	1.20	6.5	-			<u>1/</u>			9	24.40	4.3	<u>1/</u>		
SE	<u>1/</u>				5	1.66	7.2	4	5.13	7.3	4	18.75	5.5	<u>1/</u>		
STATE	33	16.33	1.13	7.9	23	1.63	6.1	14	5.81	7.8	47	19.05	6.0	15	7.73	1.19

1/ Insufficient reports; included in State totals.

MACHINERY RENTAL

Rental costs listed below do not include the cost of fuel or labor for self-propelled equipment and tractors. Fertilizer applicators were the most commonly reported rental items, followed by tractors, combines, and planting equipment. Many items, such as cultivators, chisels, and mower/conditioners were reported but had too few reports to summarize.

Rental charges are similar to those reported in recent years. Average rental costs for most items show only small increases or decreases. Some of the variation may be due to the small numbers of reports for some rental items.

MACHINE RENTAL RATES, 2002

Machine or Tool	Method of Charge	Number of Reports	Range	Average
Combine	\$/Hour	22	60.00-125.00	92.95
Corn Head	\$/Acre	4	5.00-8.00	6.38
Row Crop Head	\$/Acre	6	4.00-8.00	6.33
Flex Head	\$/Acre	3	5.00-6.00	5.50
No-Till Drill	\$/Acre	22	5.00-10.00	7.21
Drill-Seeder	\$/Acre	8	2.50-8.00	5.75
Fertilizer Applicators				
Dry	\$/Ton	28	4.00-30.00	9.27
Dry	\$/Acre	20	.50-12.00	2.32
Liquid	\$/Acre	6	1.25-3.00	2.29
Anhydrous	\$/Ton	10	5.00-25.00	13.00
Anhydrous	\$/Acre	18	1.00-8.50	2.29
Dual	\$/Acre	10	1.75-3.00	2.33
Hay Equipment				
Baler, Large Bales	\$/Bale	3	3.50-12.00	6.83
Tub Grinder	\$/Hour	17	90.00-130.00	112.35
Tractor				
50-100 HP	\$/Hour	3	12.00-15.00	14.00
101-150 HP	\$/Hour	12	14.00-30.00	20.00
151-200 HP	\$/Hour	14	15.00-35.00	21.36
201+ HP	\$/Hour	10	25.00-45.00	32.05
Size Not Specified	\$/Hour	25	8.00-35.00	23.56

FENCE BUILDING

Rates for fence building listed below were reported on the Bluestem Pasture Survey completed in April of 2002. Producers in the 14 Flint Hills counties were surveyed and asked to provide current fence building costs. The reported rates varied considerably due to the difference in equipment and terrain. The rate charged for building a five-wire, all-steel post fence, including materials, averaged \$10.90 per rod. The rate excluding materials averaged \$6.55 per rod. Average hourly rates charged for fence building are \$15.50 per hour without equipment, and \$28.10 per hour with equipment.

CUSTOM RATES FOR FENCE BUILDING, PER ROD 1/, 2002

Fence Type	Steel Posts Only		
	No. of Rpts.	Dollars per Rod	
		Range	Average
	Excluding Materials		
Four Wire	6	2.10-8.00	5.48
Five Wire	32	3.75-12.00	6.55
	Including Materials		
Four Wire	4	5.00-11.00	8.10
Five Wire	23	6.00-24.75	10.90

1/ Additional charges for rough and rocky terrain ranged from \$1.00-\$8.00 per rod and averaged \$2.18 per rod.

Custom Fence Builders	No. of Rpts.	Dollars per Hour		Average Number of Persons
		Range	Average	
With Equipment	22	6.50-65.00	28.10	1.7
Without Equipment	7	8.00-30.00	15.50	1.4

TERRACING AND DOZING

Building terraces averaged 54 cents per foot, an increase of 2 cents from 2001. The average cost for general dozer work was \$83.46 per hour, compared to \$77.20 last year.

CUSTOM RATES FOR TERRACING AND DOZING, 2002

District	No. of Rpts.	Cents per Foot		No. of Rpts.	Dollars per Hour	
		Range	Average		Range	Average
		Terracing			Dozing	
NW	1/			1/		
WC	3	38-50	46	1/		
SW	1/			1/		
NC	4	36-58	49	8	65-85	74.38
C	3	50-60	53	3	75-105	91.67
SC	1/			3	60-75	65.00
NE	3	35-80	58	16	45-115	83.40
EC	1/			6	65-150	97.51
SE	1/			6	80-110	93.33
STATE	20	35-80	54	46	40-150	83.46

1/ Insufficient reports; included in State totals.