

# Custom Farm Work Rates

■ ■ ■ ■ on North Dakota Farms, 2004, by North Dakota Farming Regions

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The U.S. Department of Agriculture's North Dakota Agricultural Statistics Service, Fargo, in cooperation with the North Dakota State University Extension Service and the Agricultural Experiment Station, conducted a survey of custom operators in North Dakota in 2004. Survey data for 2004 is summarized for the state as a whole and by four farming regions. This publication shows the number of reports, the range in rates, the most frequently reported rate and the average rate for each operation. For some operations, data are not broken down by regions.

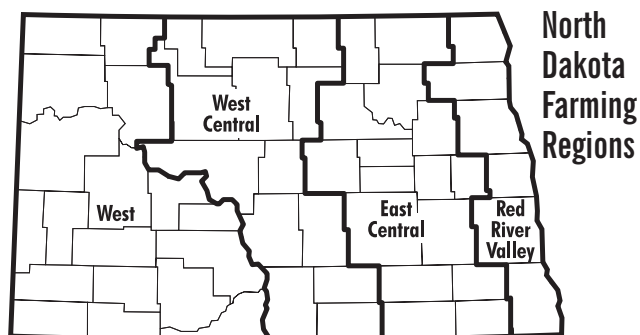
Custom rates include charges for the equipment, tractor or power unit used, fuel, repairs and the operator. Rates vary because of supply and demand and differences in soil type, topography, size and shape of field, and costs of custom operators. Exchange work between farms is not considered custom work. However, some of the low rates may represent charges by a farmer who did custom work for a neighbor. Custom operators who perform these operations as a main source of income likely would trend toward the higher rates of the range to cover operating costs and a return on investment, labor and management.

These rates are published as a guide in establishing rates for custom work, comparing ownership or leasing costs with custom work, and for settling accounts when two or more people swap work.

Assistance in helping determine a fair custom rate may be obtained from county Extension agents or Extension Service specialists at North Dakota State University.

## New for 2004

Custom operations for which data was collected for the first time include land rolling, no-till drilling, row-crop planting with an air seeder, shredding corn stalks and building multistrand wire fence. Rental rates for grain storage and machinery storage have been added to this survey as well.



## Custom Rates Compared to Ownership and Operating Costs

Custom rates should not be confused with the cost of owning and operating farm machinery. Presumably, custom rates are set with knowledge of the true cost of owning and operating machinery. In practice, this is not always the case. For example, the average custom rate reported for field cultivation is \$5.15, while an economic engineering approach suggests a cost of \$3.38 per acre. Likewise, the average custom rate for combining soybeans is \$18.22, while the cost estimate is \$22.94.

Custom rates represent a market-derived price. They reflect the supply of and demand for the services rendered, which include the use of the machine, power, fuel, repairs and the operator. Custom rates are to machinery services as market prices are to commodities. Custom rates may deviate from the cost of machinery ownership and operation, just as the market price for commodities deviates from the cost of producing the commodity.

Ownership and operation costs represent an accounting of all the resources used. These costs include depreciation, interest, repairs, fuel, taxes, insurance, housing and labor. Supply and demand will impact the price paid for machinery, which then will affect the ownership costs. However, once a machine has been purchased, the ownership cost becomes fixed relative to the life of that machine.

## Survey Summary

The custom rate survey is conducted every third year. The 2004 survey, conducted in two parts, summarized more than 4,700 reports from farmers and ranchers, aerial sprayers, elevators, custom harvesters and other custom operators. The average rates reported in the previous survey (2001) are included for comparison. Most rates have increased since the last survey; however, the increase is quite variable.

**NDSU**  
**Extension Service**

North Dakota State University  
Fargo, North Dakota 58105

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# LAND TILLAGE, SMALL GRAIN SEEDING AND ROW CROP PLANTING

## STATEWIDE AVERAGES, NORTH DAKOTA, 2004

Operation	2004				2001 Average Rate	2004 as Percent of 2001
	Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Rate		
	- No. -	----- Dollars Per Acre -----				- Pct. -
<b>LAND TILLAGE</b>						
<b>Primary Tillage (Deep)</b>						
Plowing (Moldboard)	77	3.00-15.00	10.00	8.44	7.22	117
Sod Breaking	51	2.00-20.00	10.00	9.34	8.59	109
Heavy Disking	179	1.50-18.00	5.00	6.66	6.43	104
Chisel Plowing	214	1.50-15.00	6.00	5.99	5.47	110
Sub Soiling (16-20 inches deep)	80	3.00-30.00	10.00	10.30	8.59	120
Disk/Chisel Plowing	123	3.00-25.00	8.00	7.12	6.63	107
<b>Secondary Tillage (Shallow)</b>						
Field Cultivation	229	2.00-20.00	5.00	5.15	4.85	106
One-Way Disking	90	2.00-15.00	6.00	6.01	5.26	114
Tandem Disking	147	2.50-20.00	6.00	6.29	5.44	116
Rod Weeder	36	1.50-12.00	4.00	5.11	4.78	107
Rotary Hoe	79	1.00- 8.00	3.00	4.15	3.94	105
Land Rolling	217	1.00-12.00	3.00	3.98	NA	
Light Harrowing	153	1.00-10.00	3.00	3.42	3.18	108
Heavy Harrowing	179	1.00-12.00	3.00	4.19	3.62	116
Row Crop Cultivation	137	1.00-12.00	5.00	4.87	4.20	116
<b>SMALL GRAIN SEEDING</b>						
<b>With Fertilizer</b>						
Regular Drilling	216	1.00-15.00	10.00	7.95	7.30	109
Drilling & Tillage	161	3.00-22.00	10.00	9.55	9.08	105
Pony Press Drill	40	3.50-16.00	8.00	8.94	9.59	93
Air Seeding	465	2.50-20.00	10.00	9.98	9.34	107
No Till Drill	342	2.50-25.00	12.00	10.65	10.17	105
<b>Without Fertilizer</b>						
Regular Drilling	205	1.00-13.00	10.00	7.18	6.38	113
Drilling & Tillage	141	2.00-18.00	10.00	8.69	8.02	108
Pony Press Drill	40	3.00-15.00	10.00	8.64	8.04	107
Air Seeding	384	2.00-18.00	10.00	9.49	8.50	112
No Till Drill	292	2.00-22.00	10.00	10.26	9.19	112
<b>ROW CROP PLANTING</b>						
<b>With Fertilizer</b>						
Corn, Soybean, Sunflower (Regular)	224	2.50-18.00	10.00	8.93	7.54	118
Corn, Soybean, Sunflower (Air Seed)	205	2.50-20.00	10.00	10.10	NA	
Dry Edible Beans	116	2.50-15.00	10.00	9.32	8.22	113
Potato	7	7.00-25.00	NA	14.00	10.30	136
Sugarbeet	15	4.50-18.00	10.00	10.43	12.40	84
<b>Without Fertilizer</b>						
Corn, Soybean, Sunflower (Regular)	225	2.00-15.00	10.00	8.12	6.97	116
Corn, Soybean, Sunflower (Air Seed)	191	2.00-18.00	10.00	9.53	NA	
Dry Edible Beans	111	2.00-15.00	10.00	8.79	7.71	114
Potato	6	7.00-20.00	NA	11.79	9.00	131
Sugarbeet	21	3.35-20.00	10.00	9.00	10.35	87
<b>No Till With Fertilizer</b>						
Corn, Soybean, Sunflower	215	1.00-18.00	10.00	10.16	9.36	109
<b>No Till Without Fertilizer</b>						
Corn, Soybean, Sunflower	183	1.00-16.00	10.00	9.57	8.59	111

# FERTILIZER AND PESTICIDE APPLICATION AND HAYING OPERATIONS

## STATEWIDE AVERAGES, NORTH DAKOTA, 2004

Operation	2004				2001 Average Rate	2004 as Percent of 2001
	Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Rate		
	- No. -	----- Dollars Per Acre -----				- Pct. -
<b>FERTILIZER APPLICATION</b>						
<b>Dry Fertilizer</b>						
Broadcast	753	0.50-12.00	4.00	3.87	3.64	106
Deep Banded	182	1.00-15.00	6.00	6.23	6.10	102
<b>Liquid Fertilizer</b>						
<b>Anhydrous Ammonia</b>	252	1.00-15.00	4.00	4.42	4.49	98
With Knife Applicator	275	1.00-20.00	5.00	6.12	5.33	115
While Chiseling	218	1.00-20.00	6.00	6.61	6.32	105
<b>PESTICIDE APPLICATION</b>						
<b>By Surface Vehicles</b>						
Herbicides						
Broadcast, Liquid	778	2.00-12.00	4.00	4.07	3.89	105
Dry	347	1.00-10.00	4.00	4.04	3.93	103
Incorporated, Liquid	291	2.00-13.00	4.00	4.91	4.80	102
Dry	212	2.00-13.00	4.00	5.11	4.87	105
Insecticides						
Broadcast, Liquid	452	1.00- 9.00	4.00	4.11	3.93	105
Dry	230	2.00- 8.00	4.00	4.18	4.04	103
Incorporated, Liquid	221	1.00-12.00	4.00	4.80	4.53	106
Dry	164	2.70-12.00	4.00	4.99	4.71	106
Fungicides	409	2.00- 8.50	4.00	4.19	4.00	105
Desiccants	270	1.00-10.00	4.00	4.21	4.07	103
<b>By Aircraft (All Pesticides)</b>						
1 Gallon	324	1.00-12.00	4.00	4.65	4.02	116
2 - 3 Gallons	355	2.00-12.50	5.00	4.76	4.22	113
4 - 5 Gallons	358	2.00-13.00	5.00	4.98	4.47	111
Over 5 Gallons	201	1.00-13.50	5.00	5.29	4.88	108
<b>HAYING OPERATIONS</b>						
<b>Mowing and Raking</b>						
Mowing	125	1.00-12.50	5.00	5.37	5.27	102
Mowing and Conditioning	208	1.00-12.00	8.00	7.14	7.06	101
Swathing	188	2.00-12.50	6.00	6.01	5.72	105
Raking	112	1.00- 8.00	3.00	3.47	2.90	120
<b>Baling (Wire or Twine Included)</b>						
----- Dollars Per Bale -----						
Small Square Bales, 250 Lbs or less	107	0.14- 8.00	1.00	1.03	0.81	127
Large Square Bales, Over 250 Lbs	111	1.00-12.00	5.00	5.91	7.33	81
Round Bales, 1,500 Lbs or less	410	1.25-25.00	5.00	6.25	5.71	109
Round Bales, Over 1,500 Lbs.	298	1.00-30.00	6.00	7.03	6.88	102
----- Dollars Per Stack -----						
<b>Mechanized Loose Hay Stacking</b>	31	1.50-75.00	10.00	25.08	NA	



**FARMING REGION AVERAGES, NORTH DAKOTA, 2004**

Region	Moldboard Plowing				Heavy Disking				Chisel Plowing			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Acre ---			
W	14	5.00-12.00	10.00	9.29	36	1.50-15.00	5.00	6.61	45	1.50-15.00	5.00	5.86
WC	14	3.00-13.00	5.00	7.89	46	2.00-16.00	5.00	6.54	56	2.50-15.00	6.00	5.87
EC	29	3.50-15.00	7.00	7.76	64	2.25-18.00	6.00	6.41	72	2.50-12.00	6.00	5.76
RRV	20	4.00-15.00	10.00	9.20	33	2.50-14.00	8.00	7.34	41	2.50-13.00	8.00	6.71
STATE	77	3.00-15.00	10.00	8.44	179	1.50-18.00	5.00	6.66	214	1.50-15.00	6.00	5.99

Region	Field Cultivation				Tandem Disking				Light Harrowing			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Acre ---			
W	50	2.00-20.00	5.00	5.46	30	3.00-20.00	6.00	6.80	30	1.50-10.00	3.00	3.88
WC	54	2.00-15.00	5.00	5.06	41	2.75-15.00	5.00	6.20	41	1.00- 6.00	3.00	3.40
EC	72	2.50- 9.00	5.00	5.00	43	2.50-15.00	6.00	6.20	49	1.00- 8.00	3.00	3.25
RRV	53	2.00-12.00	5.00	5.17	33	2.50-13.00	5.00	6.05	33	2.00- 7.00	3.00	3.26
STATE	229	2.00-20.00	5.00	5.15	147	2.50-20.00	6.00	6.29	153	1.00-10.00	3.00	3.42

Region	Heavy Harrowing				Row Crop Cultivation				Regular Drilling With Fertilizer			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Acre ---			
W	42	1.50-12.00	3.00	4.49	23	1.00-12.00	6.00	5.91	58	2.00-15.00	10.00	8.28
WC	55	1.00- 8.00	3.00	3.99	36	1.00-12.00	5.00	4.61	55	3.00-15.00	10.00	8.73
EC	52	1.50-10.00	3.00	4.11	46	2.00- 7.00	4.00	4.51	63	1.00-14.00	5.00	7.27
RRV	30	2.00- 9.00	3.00	4.28	32	1.00-12.00	4.00	4.91	40	1.00-15.00	10.00	7.47
STATE	179	1.00-12.00	3.00	4.19	137	1.00-12.00	5.00	4.87	216	1.00-15.00	10.00	7.95

Region	Drilling and Tillage With Fertilizer				Air Seeding With Fertilizer				No-Till With Fertilizer			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Acre ---			
W	33	4.50-22.00	12.00	10.98	120	3.00-20.00	10.00	10.78	81	4.50-25.00	12.00	10.82
WC	48	4.00-17.00	12.00	9.35	138	3.50-17.00	10.00	9.98	109	5.00-17.00	10.00	10.46
EC	47	3.00-20.00	10.00	8.91	132	2.50-15.00	10.00	9.56	108	2.50-15.00	12.00	10.73
RRV	33	4.00-18.00	10.00	9.30	75	3.00-20.00	10.00	9.46	44	5.00-20.00	10.00	10.63
STATE	161	3.00-22.00	10.00	9.55	465	2.50-20.00	10.00	9.98	342	2.50-25.00	12.00	10.65

Region	Corn, Soybean and Sunflower Planting Without Fertilizer				Dry Fertilizer Application (Broadcast)				Liquid Fertilizer Application			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Acre ---			
W	29	5.00-14.00	10.00	8.52	169	1.00- 6.50	3.50	3.69	39	2.00-10.00	4.00	4.86
WC	61	2.00-14.00	10.00	8.01	195	0.50-12.00	3.50	3.66	64	1.00-15.00	4.00	4.36
EC	80	2.00-14.00	8.00	8.03	220	0.50- 7.00	4.00	3.99	78	1.00- 9.00	4.00	4.33
RRV	55	2.00-15.00	8.00	8.15	169	3.00- 5.25	4.00	4.12	71	3.00- 6.50	4.50	4.34
STATE	225	2.00-15.00	10.00	8.12	753	0.50-12.00	4.00	3.87	252	1.00-15.00	4.00	4.42

**FARMING REGION AVERAGES, NORTH DAKOTA, 2004**

Region	Anhydrous Ammonia With Knife Applicator				Anhydrous Ammonia With Chisel				Liquid Herbicide Application (Broadcast)			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Acre ---			
W	80	1.00-20.00	6.00	6.43	61	1.00-20.00	6.00	6.64	176	2.00-12.00	4.00	3.94
WC	62	2.75-15.00	5.00	5.93	51	2.75-15.00	6.00	6.38	204	2.50- 8.00	4.00	3.88
EC	88	2.00-20.00	5.00	6.12	70	2.00-12.00	7.00	6.51	229	2.00-10.83	4.00	4.15
RRV	45	3.50-14.00	5.00	5.81	36	1.00-16.00	5.00	7.07	169	2.00-10.00	4.00	4.35
STATE	275	1.00-20.00	5.00	6.12	218	1.00-20.00	6.00	6.61	778	2.00-12.00	4.00	4.07

Region	Liquid Insecticide Application (Broadcast)				Aerial Spraying 2 - 3 Gallons Per Acre				Aerial Spraying 4 - 5 Gallons Per Acre			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Acre ---			
W	78	2.00-8.00	4.00	3.90	65	3.00-11.00	4.00	4.65	42	3.00-12.00	4.00	4.89
WC	119	2.58-9.00	4.00	3.91	94	2.25-12.50	4.00	4.65	76	3.00-13.00	4.00	4.94
EC	143	1.00-7.50	4.00	4.19	104	2.00- 6.00	5.00	4.78	120	2.00- 7.50	5.00	5.03
RRV	112	2.50-6.50	4.00	4.36	92	4.00- 9.00	5.00	4.92	120	4.00- 7.00	5.00	4.97
STATE	452	1.00-9.00	4.00	4.11	355	2.00-12.50	5.00	4.76	358	2.00-13.00	5.00	4.98

Region	Mowing & Conditioning Hay				Swathing Hay				Small Square Baling 250 Lbs. or Less			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Bale ---			
W	75	1.00-12.00	8.00	7.06	84	2.00-12.50	6.00	6.35	39	0.15-6.00	0.50	0.85
WC	69	2.00-12.00	10.00	7.29	55	2.00-10.00	5.00	5.97	31	0.20-5.00	1.00	1.18
EC	45	2.00-12.00	7.00	7.13	29	2.00-10.00	5.00	5.47	22	0.15-3.00	1.00	0.87
RRV	19	3.50-10.00	6.00	6.92	20	3.00-10.00	5.00	5.48	15	0.14-8.00	1.00	1.45
STATE	208	1.00-12.00	8.00	7.14	188	2.00-12.50	6.00	6.01	107	0.14-8.00	1.00	1.03

Region	Round Baling 1,500 Lbs. or Less				Round Baling Over 1,500 Lbs.				Tub Grinding Self-Contained Unit			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Bale ---				--- Dollars Per Bale ---				--- Dollars Per Hour ---			
W	140	3.00-25.00	5.00	6.61	102	1.00-30.00	6.00	7.71	91	30.00-175.00	100.00	108.19
WC	131	2.00-15.00	5.00	5.94	96	2.00-25.00	6.00	6.67	90	10.00-160.00	100.00	87.06
EC	102	1.25-25.00	5.00	5.94	69	5.00-15.00	6.00	6.46	61	20.00-180.00	100.00	88.89
RRV	37	4.50-25.00	6.00	6.83	31	4.00-15.00	6.00	7.18	12	90.00-125.00	100.00	101.25
STATE	410	1.25-25.00	5.00	6.25	298	1.00-30.00	6.00	7.03	254	10.00-180.00	100.00	95.74

Region	Pneumatic Grain Handling				Skid-Steer Loader				Industrial Loader			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Bushel ---				--- Dollars Per Hour ---				--- Dollars Per Hour ---			
W	69	0.02-0.30	0.05	0.08	100	10.00-100.00	35.00	35.25	75	30.00-110.00	50.00	60.95
WC	76	0.01-0.50	0.10	0.09	99	6.00- 75.00	25.00	36.47	108	20.00-125.00	60.00	66.28
EC	82	0.01-0.50	0.05	0.08	87	10.00- 90.00	35.00	37.18	86	20.00-100.00	80.00	66.58
RRV	54	0.02-0.50	0.05	0.08	33	10.00- 75.00	40.00	34.39	43	30.00-100.00	50.00	67.59
STATE	281	0.01-0.50	0.05	0.08	319	6.00-100.00	35.00	36.07	312	20.00-125.00	50.00	65.26

**2004 North Dakota Statewide Averages for  
Harvesting Crops, Seed Preparation and Machine Rental**

Operation	Unit	2004				2001 Average Rate	2004 as Percent of 2001
		Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Rate		
		----- Dollars Per Unit -----				Percent	
<b>Harvesting Grain Crops</b>							
<b>Swathing Grain</b>							
Self-Propelled	Acre	172	3.00-13.00	5.00	6.21	5.47	114
	Hour	1	D	D	D	41.90	NA
Pull-Type	Acre	124	2.00-12.00	5.00	5.75	5.23	110
<b>Swathing Canola</b>							
Self-Propelled	Acre	104	3.50-16.00	7.00	7.05	6.10	116
	Hour	2	D	D	D	73.00	NA
Pull-Type	Acre	62	2.00-15.00	8.00	6.98	5.77	121
<b>Combining From Swaths</b>							
Small Grains & Flaxseed	Acre	329	10.00-28.00	18.00	16.12	14.72	110
	Hour	22	65.00-160.00	100.00	108.36	98.77	110
Dry Edible Beans	Acre	75	12.00-30.00	20.00	21.02	19.06	110
	Hour	6	105.00-200.00	125.00	141.67	111.00	128
Canola	Acre	152	10.00-28.00	18.00	17.25	15.25	113
	Hour	8	85.00-150.00	120.00	116.25	107.11	109
<b>Straight Combining</b>							
Small Grains & Flaxseed	Acre	507	10.00-28.00	18.00	16.27	15.03	108
	Hour	32	65.00-175.00	100.00	108.91	103.13	106
Corn	Acre	146	11.50-35.00	20.00	18.43	17.33	106
	Hour	8	65.00-200.00	105.00	110.00	105.50	104
Sunflower	Acre	162	11.00-25.00	15.00	16.31	15.29	107
	Hour	8	65.00-250.00	65.00	124.38	106.54	117
Soybeans	Acre	240	12.00-28.00	20.00	18.22	16.72	109
	Hour	20	65.00-160.00	150.00	120.75	103.69	116
Dry Edible Beans	Acre	63	12.00-30.00	20.00	19.64	18.29	107
	Hour	4	105.00-150.00	NA	125.00	119.17	105
<b>Dry Bean Harvesting</b>							
Cutting Only (Knifing)	Acre	48	5.00-22.00	8.00	11.11	10.69	104
Windrowing (After Knifing)	Acre	31	3.25-25.00	4.00	8.64	6.47	134
Cutting & Windrowing (One Operation)	Acre	38	5.00-30.00	10.00	14.79	16.31	91
<b>Sugarbeet Harvesting</b>							
Topping	Acre	5	5.00-18.00	NA	13.00	14.14	92
Lifting	Acre	6	14.00-45.00	14.00	23.33	35.44	66
<b>Potato Harvesting</b>							
Dessicant Application	Acre	4	5.75-18.00	NA	9.94	NA	NA
Roto Beating Vines	Acre	3	D	D	D	NA	NA
Digging	Acre	4	10.00-30.00	NA	17.75	NA	NA
<b>Making Corn Silage</b>							
<b>Field Chopping Only</b>							
	Acre	51	8.50-60.00	30.00	26.75	20.78	129
	Hour	11	35.00-350.00	350.00	170.73	90.40	189
<b>Field Chopping and Hauling</b>							
	Acre	91	12.00-60.00	50.00	37.55	26.26	143
	Hour	38	50.00-500.00	400.00	305.50	168.18	182
<b>Shredding Corn Stalks</b>							
	Acre	26	3.00-12.50	8.00	6.92	NA	NA
<b>Seed Preparation</b>							
<b>Seed Grain</b>							
Cleaning Only	Gross Bu.	477	0.04-1.50	0.35	0.380	0.361	105
Treating Only	Gross Bu.	65	0.02-2.00	1.00	0.543	0.514	105
Cleaning and Treating	Gross Bu.	52	0.05-3.00	0.60	0.915	0.846	108
<b>Flaxseed</b>							
Cleaning Only	Gross Bu.	95	0.05-2.00	1.00	0.680	0.564	121
Treating Only	Gross Bu.	11	0.05-0.75	0.50	0.360	0.539	66
Cleaning and Treating	Gross Bu.	7	0.05-1.50	0.60	0.779	1.029	75
<b>Machine Rental</b>							
<b>Tractor</b>							
Under 100 Horsepower	Hour <sup>1/</sup>	123	9.00-100.00	20.00	27.63	22.22	124
100 - 200 Horsepower	Hour <sup>1/</sup>	168	7.00-150.00	20.00	38.88	30.11	129
Over 200 Horsepower	Hour <sup>1/</sup>	133	12.50-200.00	40.00	55.56	43.82	127
<b>Combine</b>							
	Acre	14	8.00-17.00	10.00	12.07	13.42	90
	Hour <sup>1/</sup>	224	15.00-150.00	100.00	100.61	93.12	108
<b>Grain Cart Rental</b>							
	Acre	12	1.00-5.00	1.00	2.10	3.29	64
	Hour <sup>1/</sup>	9	6.25-30.00	10.00	13.25	22.89	58
<b>Swather</b>							
Self-Propelled	Acre	33	1.00-20.00	3.00	5.45	4.76	114
	Hour <sup>1/</sup>	11	10.00-80.00	40.00	39.73	38.80	102
Pull-Type	Acre	31	1.75-9.00	2.00	3.83	3.90	98
	Hour <sup>1/</sup>	6	10.00-40.00	10.00	20.00	24.63	81
<b>Field Roller</b>							
	Acre	142	0.50-10.00	2.00	2.78	NA	NA
	Hour <sup>1/</sup>	5	1.75-15.00	NA	7.25	NA	NA

<sup>1/</sup> Rates for machine rentals are in tachometer hours. D=Insufficient Reports. NA=Not Available.

**2004 North Dakota Statewide Averages for Drying and Hauling Crops, Hay and Cattle**

Operation	Unit	Basic Charge - 2004					2001 Average Rate	2004 as % of 2001	Extra Charge - 2004	
		Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Maximum Moisture Content	Average Rate			No. Rpts.	For Each Additional 1% Moisture Removed
		- Dollars Per Unit -		Percent	-- Dollars Per Unit --		Percent	\$/Unit		
<b>Drying Grain</b>										
Small Grains	Bu	145	0.02-0.35	0.10	16.35	0.145	0.113	128	39	0.047
Corn	Bu	37	0.02-0.50	0.15	20.50	0.179	0.132	136	13	0.034
Sunflower	Cwt	11	0.03-0.50	0.12	15.50	0.168	0.165	102	6	0.027
Flaxseed	Bu	5	0.03-0.32	NA	16.40	0.168	0.109	154	3	D
Soybeans	Bu	12	0.03-0.30	0.03	19.70	0.147	0.125	118	5	0.034

Operation	Unit	Basic Charge - 2004					2001 Average Rate	2004 as % of 2001	Extra Charge - 2004	
		Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Base Mileage	Average Rate			No. Rpts.	Per 10 Miles Over Base Mileage
		- Dollars Per Unit -		Miles	-- Dollars Per Unit --		Percent	\$/Unit		
<b>Hauling Crops</b>										
Wheat, All	Bu	273	0.03-0.80	0.10	25.00	0.123	0.116	106	72	0.093
Barley	Bu	126	0.03-0.30	0.10	28.01	0.119	0.117	102	32	0.052
Oats	Bu	82	0.03-0.30	0.10	20.83	0.107	0.107	100	27	0.053
Sunflower	Cwt	40	0.05-2.00	0.12	71.32	0.413	0.378	109	10	0.063
Canola	Cwt	38	0.05-0.70	0.10	48.90	0.211	0.369	57	9	0.051
Flaxseed	Bu	32	0.03-0.60	0.10	30.75	0.139	0.107	130	12	0.072
Corn	Bu	40	0.04-0.25	0.10	25.06	0.110	0.114	96	14	0.060
Hauling Silage	Ton	6	0.05-3.00	NA	8.00	1.272	NA	NA	2	D
Hauling Potatoes	Cwt	5	0.05-1.05	NA	105.00	0.710	NA	NA	1	D
Sugarbeets	Ton	10	1.00-5.00	4.00	15.20	3.760	3.930	96	4	0.185

Operation	Unit	Basic Charge - 2004				2001 Average Rate	2004 as % of 2001	Loading Charge - 2004		
		Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Rate			No. Rpts.	Charge	
		----- Dollars Per Unit -----				Percent	\$/Load			
<b>Hauling Hay</b>										
<b>By the Load (Loose &amp; Bales)</b>										
Less than 10 tons	Mile <sup>1/</sup>	46	0.15-3.75	3.00	2.55	2.37	108	36	18.42	
10 - 20 tons	Mile <sup>1/</sup>	112	0.20-12.00	3.00	3.00	2.69	112	73	21.22	
Over 20 tons	Mile <sup>1/</sup>	80	0.20-4.50	3.00	2.94	2.72	108	41	23.00	
<b>By the Bale</b>										
Small Sq. Bales <sup>2/</sup>	Bale	4	0.10-0.25	0.10	0.16	0.87	18	{ Included in basic charges		
Large Sq. Bales <sup>2/</sup>	Bale	9	0.20-5.00	2.75	2.34	2.24	104			
Large Rd. Bales <sup>2/</sup>	Bale	47	0.10-8.50	3.00	3.06	2.48	123			
<b>Hauling Cattle</b>										
Gooseneck Trailer	Mile <sup>3/</sup>	197	1.00-4.00	2.00	2.23	1.98	113	No. Rpts.	Average Cwt./Load	
Semi Trailer	Mile <sup>3/</sup>	275	1.00-18.75	3.00	3.08	2.78	111	152	125.99	
								205	459.77	

<sup>1/</sup> Loaded Mile, Excludes Loading. <sup>2/</sup> Average rate based on an average of 66.7 miles for small square bales, 99.2 miles for large square bales, and 25.3 miles for large round bales. Extra charges apply for hauls exceeding this base mileage were \$0.20 per mile for small square bales, \$1.33 per mile for large square bales, and \$1.82 per mile for large round bales. <sup>3/</sup> Loaded Mile. D=Insufficient Reports. NA=Not Available.

### 2004 North Dakota Statewide Averages, Other Custom Work

Operation	2004					2001 Average Rate	2004 as Percent of 2001
	Unit	Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Rate		
----- Dollars Per Unit -----							
<b>Custom Farming <sup>1/</sup></b>							Percent
Small Grains	Acre	69	9.00-100.00	40.00	40.17	40.73	99
Row Crops	Acre	40	10.00-120.00	50.00	49.26	54.55	90
<b>Miscellaneous</b>							
Mowing/Clipping CRP	Acre	201	1.00-15.00	5.00	6.48	6.22	104
	Hour	25	8.00-100.00	25.00	51.28	22.25	230
On Farm Grain Bin Storage	Cents/Bu/Month	329	0.01-0.15	0.02	0.03	NA	NA
Machine Shed Rental	Cents/Sq Ft/Month	54	0.01-1.50	0.01	0.13	NA	NA
Farm Drainage/Ditching	Hour	49	3.00-200.00	100.00	86.03	84.80	101
Land Leveling	Hour	24	8.00-200.00	60.00	72.21	64.31	112
Rock Picking	Hour	56	2.00-100.00	50.00	42.99	42.72	101
Snow Removal							
Front End Loader	Hour	203	6.00-100.00	50.00	50.87	48.84	104
Tractor Blower	Hour	203	10.00-120.00	50.00	47.39	43.50	109

<sup>1/</sup> Includes all necessary farming operations from field preparation through harvesting. NA=Not Available.

### 1982 - 2004 Statewide Averages, Historical Data

Operation	Unit	1982	1984	1986	1989	1992	1995	1998	2001	2004
----- Dollars Per Unit -----										
<b>Swathing Grain</b>										
Self Propelled	Acre	3.55	3.73	3.67	3.94	4.22	4.46	5.04	5.47	6.21
PTO Unit	Acre	3.16	3.36	3.39	3.68	4.03	4.23	4.58	5.23	5.75
<b>Combining From Swaths</b>										
Small Grains & Flaxseed <sup>1/</sup>	Acre	12.65	12.61	11.59	11.82	13.13	13.70	13.82	14.72	16.12
Dry Beans	Acre	15.91	15.04	14.65	16.27	18.20	18.18	19.06	19.06	21.02
<b>Straight Combining</b>										
Small grains & Flaxseed <sup>1/</sup>	Acre	12.76	12.57	11.71	11.80	13.15	13.74	13.88	15.03	16.27
Corn	Acre	15.10	14.83	14.46	14.05	15.23	16.33	16.26	17.33	18.43
Sunflower	Acre	13.52	13.26	12.54	12.40	13.54	14.14	14.49	15.29	16.31
Soybeans	Acre	14.46	14.68	14.08	14.20	15.70	15.57	16.10	16.72	18.22
Dry Beans	Acre	16.12	15.31	15.46	16.46	18.39	17.96	19.10	18.29	19.64
<b>Making Corn Silage</b>										
Chopping Only	Acre	15.76	16.41	16.06	16.83	17.65	18.51	18.69	20.78	26.75
Chopping and Hauling	Acre	18.42	21.22	19.54	20.02	21.65	22.62	23.62	26.26	37.55
<b>Drying</b>										
Small Grains	Bushel	0.151	0.152	0.131	0.118	0.108	0.111	0.123	0.113	0.145
Flaxseed	Bushel	0.172	0.172	0.153	0.124	0.110	0.134	0.134	0.109	0.168
Corn	Bushel	0.181	0.176	0.164	0.126	0.115	0.123	0.146	0.132	0.179
Sunflower	Cwt	0.286	0.309	0.204	0.200	0.157	0.152	0.171	0.165	0.168
Soybeans	Bushel	NA	NA	NA	NA	0.093	0.085	0.115	0.125	0.147
<b>Hauling</b>										
Wheat	Bushel	0.107	0.095	0.096	0.092	0.090	0.098	0.109	0.116	0.123
Barley	Bushel	0.101	0.091	0.093	0.089	0.088	0.094	0.101	0.117	0.119
Oats	Bushel	0.098	0.089	0.087	0.088	0.087	0.094	0.100	0.107	0.107
Flaxseed	Bushel	0.110	0.096	0.088	0.094	0.091	0.097	0.124	0.107	0.139
Corn	Bushel	0.107	0.091	0.086	0.085	0.087	0.097	0.101	0.114	0.110
Sunflower	Cwt	0.170	0.165	0.168	0.202	0.196	0.189	0.339	0.378	0.413
<b>Seed Grain Preparation</b>										
Cleaning Only	Gross Bu	0.254	0.275	0.277	0.291	0.299	0.321	0.340	0.361	0.380
Treating Only	Gross Bu	0.318	0.404	0.393	0.437	0.504	0.552	0.519	0.514	0.543
Cleaning & Treating	Gross Bu	0.542	0.678	0.643	0.718	0.784	0.800	0.726	0.846	0.915
<b>Farm Drainage/Ditching</b>	Hour	50.54	56.80	54.48	50.34	58.66	63.49	76.25	84.80	86.03
<b>Land Leveling</b>	Hour	51.55	55.21	51.17	48.03	58.31	60.61	63.26	64.31	72.21
<b>Rock Picking</b>	Hour	37.02	35.69	35.34	37.55	40.20	39.26	52.29	42.72	42.99

<sup>1/</sup> Averages for years 1980-1998 do not include flaxseed. NA = Not Available.

### 2004 North Dakota Farming Region Averages

Region	Swathing Grain Self-Propelled				Swathing Grain PTO Unit				Swathing Canola Self-Propelled			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Acre ---			
W	59	3.00-12.00	6.00	6.18	32	3.00-8.00	5.00	5.44	22	4.00-8.00	8.00	6.50
WC	48	3.50-10.00	5.00	6.39	31	3.50-10.00	5.00	6.29	37	3.50-16.00	7.00	7.36
EC	48	3.50-13.00	5.00	6.15	44	2.00-12.00	5.00	5.72	36	4.00-15.00	7.00	7.17
RRV	17	4.00-8.00	5.00	6.03	17	3.00-8.00	5.00	5.47	9	4.00-8.00	7.00	6.61
STATE	172	3.00-13.00	5.00	6.21	124	2.00-12.00	5.00	5.75	104	3.50-16.00	7.00	7.05
Region	Swathing Canola PTO Unit				Combining Small Grains & Flaxseed from Swath				Combining Dry Beans from Swath			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Acre ---			
W	14	4.00-8.00	8.00	6.57	73	10.00-25.00	18.00	15.75	7	13.00-25.00	18.00	17.64
WC	19	5.00-14.00	5.00	7.58	96	11.00-20.00	14.00	15.90	11	15.00-27.00	16.00	20.45
EC	23	2.00-15.00	5.00	6.91	125	11.00-28.00	18.00	16.77	36	12.00-30.00	20.00	21.97
RRV	6	4.00-8.00	8.00	6.33	35	10.00-20.00	15.00	15.14	21	15.00-30.00	20.00	20.81
STATE	62	2.00-15.00	8.00	6.98	329	10.00-28.00	18.00	16.12	75	12.00-30.00	20.00	21.02
Region	Combining Canola from Swath				Straight Combining Small Grains & Flaxseed				Combining Corn			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Acre ---			
W	38	12.00-25.00	18.00	16.42	155	10.00-25.00	14.00	15.67	24	12.00-25.00	16.00	16.73
WC	44	11.50-26.00	17.00	16.92	131	10.00-25.00	18.00	16.13	33	11.50-30.00	20.00	18.39
EC	60	10.00-28.00	18.00	18.09	156	11.00-28.00	18.00	17.01	63	12.00-35.00	20.00	19.31
RRV	10	12.00-20.00	18.00	16.75	65	11.00-24.50	15.00	16.19	26	12.00-25.00	18.00	17.94
STATE	152	10.00-28.00	18.00	17.25	507	10.00-28.00	18.00	16.27	146	11.50-35.00	20.00	18.43
Region	Combining Sunflower				Straight Combining Soybeans				Straight Combining Dry Beans			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Acre ---			
W	29	11.00-21.00	18.00	16.33	13	12.00-24.00	20.00	18.15	10	12.00-20.00	18.00	16.65
WC	48	11.50-25.00	15.00	15.95	44	12.00-27.00	20.00	18.53	12	15.00-22.00	15.00	18.17
EC	64	11.00-22.00	15.00	16.70	130	12.00-28.00	20.00	18.52	23	12.00-30.00	20.00	21.43
RRV	21	11.00-20.00	15.00	15.88	53	12.00-24.00	15.00	17.24	18	15.00-25.00	20.00	20.00
STATE	162	11.00-25.00	15.00	16.31	240	12.00-28.00	20.00	18.22	63	12.00-30.00	20.00	19.64
Region	Chopping Corn Silage				Chopping and Hauling Corn Silage				Cleaning Seed Grain			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Gross Bushel ---			
W	14	8.50-60.00	20.00	22.75	22	12.00-60.00	45.00	37.39	175	0.09-1.00	0.35	0.366
WC	17	12.00-35.00	30.00	27.65	34	18.00-50.00	30.00	34.01	140	0.04-1.00	0.30	0.345
EC	12	18.00-40.00	40.00	30.42	27	20.00-60.00	50.00	42.89	116	0.04-1.50	0.40	0.406
RRV	8	14.00-35.00	20.00	26.38	8	20.00-50.00	25.00	35.00	46	0.05-1.25	0.50	0.473
STATE	51	8.50-60.00	30.00	26.75	91	12.00-60.00	50.00	37.55	477	0.04-1.50	0.35	0.380
Region	Cleaning Flaxseed				Treating Seed Grain				Cleaning and Treating Seed Grain			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Gross Bushel ---				--- Dollars Per Gross Bushel ---				--- Dollars Per Gross Bushel ---			
W	22	0.30-1.35	1.00	0.716	25	0.10-2.00	1.00	0.498	21	0.20-2.50	0.60	0.806
WC	47	0.25-2.00	0.50	0.676	11	0.02-0.50	0.25	0.279	8	0.35-1.25	0.35	0.644
EC	24	0.06-1.20	1.00	0.691	16	0.05-2.00	1.00	0.756	14	0.17-3.00	0.60	1.301
RRV	2	D	D	D	13	0.05-2.00	1.00	0.590	9	0.05-2.50	0.50	0.811
STATE	95	0.05-2.00	1.00	0.679	65	0.02-2.00	1.00	0.543	52	0.05-3.00	0.60	0.915

D=Insufficient Reports. NA=Not Available.

**2004 North Dakota Farming Region Averages**

Region	Drying Small Grains					Drying Corn						
	No. Rpts.	Range	Most Frequent	Average Rate	Avg. Maximum Moisture Content	No. Rpts.	Range	Most Frequent	Average Rate	Avg. Maximum Moisture Content		
	--- Dollars Per Bushel --- Percent					--- Dollars Per Bushel --- Percent						
W	18	0.10-0.35	0.20	0.185	16.41	2	D	D	D	D		
WC	45	0.02-0.30	0.10	0.137	15.95	4	0.10-0.20	0.20	0.155	20.20		
EC	61	0.03-0.30	0.10	0.139	16.75	22	0.02-0.50	0.03	0.182	20.60		
RRV	21	0.06-0.28	0.10	0.150	16.00	9	0.07-0.30	0.12	0.151	20.56		
STATE	145	0.02-0.35	0.10	0.145	16.36	37	0.02-0.50	0.15	0.179	20.50		
Region	Drying Sunflower					Drying Flaxseed						
	No. Rpts.	Range	Most Frequent	Average Rate	Avg. Maximum Moisture Content	No. Rpts.	Range	Most Frequent	Average Rate	Avg. Maximum Moisture Content		
	--- Dollars Per Cwt. --- Percent					--- Dollars Per Bushel --- Percent						
W	3	D	D	D	D	1	D	D	D	D		
WC	4	0.04-0.12	0.12	0.083	14.60	1	D	D	D	D		
EC	3	D	D	D	D	2	D	D	D	D		
RRV	1	D	D	D	D	1	D	D	D	D		
STATE	11	0.03-0.50	0.12	0.168	15.50	5	0.03-0.32	NA	0.168	16.4		
Region	Hauling Wheat					Hauling Oats						
	No. Rpts.	Range	Most Frequent	Average Rate	Average Base Mileage	No. Rpts.	Range	Most Frequent	Average Rate	Average Base Mileage		
	--- Dollars Per Bushel --- Miles					--- Dollars Per Bushel --- Miles						
W	112	0.04-0.40	0.12	0.141	29.90	27	0.05-0.30	0.10	0.129	23.83		
WC	69	0.05-0.25	0.10	0.113	21.49	27	0.05-0.13	0.10	0.099	20.45		
EC	67	0.03-0.80	0.10	0.115	22.26	16	0.03-0.17	0.10	0.097	20.27		
RRV	25	0.03-0.25	0.10	0.092	14.31	12	0.03-0.25	0.10	0.092	14.44		
STATE	273	0.03-0.80	0.10	0.123	25.00	82	0.03-0.30	0.10	0.107	20.83		
Region	Hauling Barley					Hauling Sunflower						
	No. Rpts.	Range	Most Frequent	Average Rate	Average Base Mileage	No. Rpts.	Range	Most Frequent	Average Rate	Average Base Mileage		
	--- Dollars Per Bushel --- Miles					--- Dollars Per Cwt. --- Miles						
W	37	0.07-0.30	0.12	0.142	31.97	6	0.12-2.00	1.00	0.773	75.00		
WC	43	0.05-0.30	0.10	0.119	29.39	15	0.05-1.00	0.12	0.449	88.92		
EC	35	0.03-0.28	0.10	0.102	25.79	12	0.05-0.50	0.50	0.272	50.00		
RRV	11	0.03-0.25	0.10	0.093	12.86	7	0.05-0.60	NA	0.267	59.17		
STATE	126	0.03-0.30	0.10	0.119	28.01	40	0.05-2.00	0.12	0.413	71.32		
Region	Hauling Flaxseed					Hauling Corn						
	No. Rpts.	Range	Most Frequent	Average Rate	Average Base Mileage	No. Rpts.	Range	Most Frequent	Average Rate	Average Base Mileage		
	--- Dollars Per Bushel --- Miles					--- Dollars Per Bushel --- Miles						
W	9	0.08-0.60	0.12	0.169	42.44	7	0.08-0.25	0.08	0.144	44.63		
WC	14	0.05-0.30	0.10	0.119	21.40	7	0.05-0.18	0.10	0.114	19.00		
EC	6	0.08-0.40	0.10	0.158	40.67	19	0.05-0.15	0.10	0.098	18.56		
RRV	3	D	D	D	D	7	0.04-0.25	0.05	0.101	19.50		
STATE	32	0.03-0.60	0.10	0.139	30.75	40	0.04-0.25	0.10	0.110	25.06		
Region	Custom Farming Small Grain <sup>1/</sup>				Custom Farming Row Crops <sup>1/</sup>				Rock Picking			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	--- Dollars Per Acre ---				--- Dollars Per Acre ---				--- Dollars Per Hour ---			
W	24	10.00-75.00	12.00	28.54	9	12.00-100.00	30.00	36.78	9	2.00-75.00	75.00	38.44
WC	18	9.00-75.00	40.00	34.17	11	10.00-65.00	10.00	32.73	19	15.00-100.00	35.00	54.74
EC	16	12.30-100.00	40.00	45.89	13	30.00-120.00	75.00	60.00	23	2.00-75.00	50.00	33.54
RRV	11	40.00-100.00	40.00	67.05	7	50.00-110.00	60.00	71.36	5	10.00-100.00	50.00	50.00
STATE	69	9.00-100.00	40.00	40.17	40	10.00-120.00	50.00	49.26	56	2.00-100.00	50.00	42.99

<sup>1/</sup> Includes all necessary farming operations from field preparation through harvesting. D=Insufficient Reports. NA=Not Available.

**For more information on this and other topics, see: [WWW.ag.ndsu.edu](http://WWW.ag.ndsu.edu)**



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