

Custom Farm Work Rates

on North Dakota Farms, 2001
by North Dakota Farming Regions

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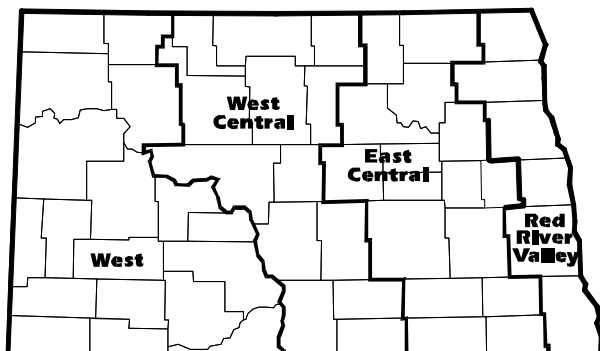
A survey of custom operators in North Dakota was conducted in 2001 by the USDA's North Dakota Agricultural Statistics Service, Fargo, North Dakota, in cooperation with the NDSU Extension Service and the Agricultural Experiment Station. Survey data for 2001 is summarized for the state as a whole and by four farming regions. For each operation the number of reports, the range in rates, the most frequently reported rate and the average rate is shown. For some operations, data is not broken down by regions.

Custom rates include charges for the equipment, tractor or power unit used, fuel, repairs and the operator. Rates vary due to supply and demand, and because of 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 would likely 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 to determine a fair custom rate may be obtained from county extension agents or Extension Service specialists at North Dakota State University.

North Dakota Farming Regions



New for 2001

Custom operations for which data was collected for the first time include: **mowing/clipping CRP, heavy harrowing and swathing, combining and hauling canola**. Also added to this survey is rental rate information for **grain carts**.

Combining flax was included with combining small grains in the 2001 survey, instead of being listed separately as before. Stacking loose hay was dropped from the survey due to the small number of responses in the previous survey.

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.

Custom rates represent a market-derived price. They reflect the supply of and demand for the services rendered which includes the use of the machine, operating inputs and labor. 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 will then affect the ownership costs. However, once a machine has been purchased the ownership cost becomes fixed relative to the life of that machine.



North Dakota State University, Fargo, ND 58105
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LAND TILLAGE, SMALL GRAIN SEEDING AND ROW CROP PLANTING

STATEWIDE AVERAGES, NORTH DAKOTA, 2001

Operation	2001				1988 Average Rate	2001 as Percent of 1988
	Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Rate		
	- No. -		----- Dollars Per Acre -----			- Pct. -
LAND TILLAGE						
Primary Tillage (Deep)						
Plowing (Moldboard)	67	1.00-18.00	6.00	7.22	7.48	97
Alfalfa Sod Breaking (Moldboard)	53	1.00-20.00	10.00	8.59	8.42	102
Heavy Disking	114	2.50-18.00	6.00	6.43	6.19	104
Chisel Plowing	128	2.00-10.50	5.00	5.47	5.41	101
Sub Soiling (16-20 in.)	33	4.00-18.00	8.00	8.59	8.09	106
Disk/Chisel Plowing	70	2.00-15.00	6.00	6.63	6.05	110
Secondary Tillage (Shallow)						
Field Cultivation	149	1.50-15.00	5.00	4.85	4.40	110
One-Way Disking	59	1.50-11.00	5.00	5.26	5.00	105
Tandem Disking	102	1.50-12.00	5.00	5.44	5.15	106
Rod Weeder	26	1.75-10.00	4.00	4.78	4.12	116
Rotary Hoe	51	1.00-10.00	3.00	3.94	3.74	105
Light Harrowing	94	0.75- 8.00	3.00	3.18	NA	NA
Heavy Harrowing	106	1.00- 8.00	3.00	3.62	NA	NA
Row Crop Cultivation	85	1.00- 8.00	4.00	4.20	4.27	98
SMALL GRAIN SEEDING						
With Fertilizer						
Regular Drilling	99	3.00-14.00	7.00	7.30	6.48	113
Drilling & Tillage	82	3.25-20.00	10.00	9.08	8.14	112
Pony Press Drill	29	3.00-20.00	10.00	9.59	8.15	118
Air Seeding	302	2.00-20.00	10.00	9.34	8.29	113
Minimum Tillage Drilling	149	2.00-17.00	10.00	10.17	9.32	109
Without Fertilizer						
Regular Drilling	89	3.00-12.00	6.00	6.38	6.27	102
Drilling & Tillage	71	2.50-18.00	8.00	8.02	7.97	101
Pony Press Drill	27	1.50-15.00	8.00	8.04	7.57	106
Air Seeding	215	3.50-15.00	10.00	8.50	7.92	107
Minimum Tillage Drilling	120	3.00-15.00	10.00	9.19	9.00	102
ROW CROP PLANTING						
With Fertilizer						
Corn, Soybean, Sunflower	119	2.50-14.00	5.00	7.54	6.86	110
Dry Edible Beans	47	3.00-18.00	10.00	8.22	7.41	111
Potato	10	4.00-15.00	10.00	10.30	7.19	143
Sugarbeet	10	6.00-20.00	9.00	12.40	7.85	158
Without Fertilizer						
Corn, Soybean, Sunflower	131	2.00-14.00	6.00	6.97	6.47	108
Dry Edible Beans	46	3.00-16.00	5.00	7.71	7.73	100
Potato	9	4.00-12.50	9.00	9.00	7.43	121
Sugarbeet	10	6.00-15.00	9.00	10.35	7.47	139
Minimum Tillage With Fertilizer						
Corn, Soybean, Sunflower	73	3.00-18.00	12.00	9.36	8.50	110
Minimum Tillage Without Fertilizer						
Corn, Soybean, Sunflower	55	3.00-14.00	10.00	8.59	8.22	105

FERTILIZER AND PESTICIDE APPLICATION AND HAYING OPERATIONS

STATEWIDE AVERAGES, NORTH DAKOTA, 2001

Operation	2001				1998 Average Rate	2001 as Percent of 1998
	Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Rate		
	- No. -	----- Dollars Per Acre -----				- Pct. -
FERTILIZER APPLICATION						
Dry Fertilizer						
Broadcast	490	0.75- 9.00	3.50	3.64	3.27	111
Deep Banded	82	1.00-12.00	6.00	6.10	5.44	112
Liquid Fertilizer	136	1.00-19.00	4.00	4.49	3.70	121
Anhydrous Ammonia						
With Knife Applicator	194	1.00-12.00	5.00	5.33	5.11	104
While Chiseling	120	1.00-12.00	5.00	6.32	5.79	109
PESTICIDE APPLICATION						
By Surface Vehicles						
Herbicides						
Broadcast, Liquid	535	1.00-13.00	4.00	3.89	3.32	117
Dry	173	0.50-11.00	4.00	3.93	3.35	117
Incorporated, Liquid	150	2.00-13.00	4.00	4.80	4.71	102
Dry	89	1.00-10.00	4.00	4.87	5.06	96
Insecticides						
Broadcast, Liquid	312	1.00-12.00	4.00	3.93	3.38	116
Dry	109	2.00-10.00	4.00	4.04	3.50	115
Incorporated, Liquid	115	2.00-15.00	4.00	4.53	4.75	95
Dry	68	2.50-12.00	4.00	4.71	4.95	95
Fungicides	245	2.00- 7.35	4.00	4.00	3.60	111
Desiccants	181	2.50-12.00	4.00	4.07	3.62	112
By Aircraft (All Pesticides)						
1 Gallon	181	2.00- 7.50	4.00	4.02	3.56	113
2 - 3 Gallons	247	2.00- 6.20	4.50	4.22	3.81	111
4 - 5 Gallons	267	2.00- 7.50	4.50	4.47	4.13	108
Over 5 Gallons	146	1.00-10.00	5.00	4.88	4.54	107
HAYING OPERATIONS						
Mowing and Raking						
Mowing	76	1.00-12.50	4.00	5.27	4.44	119
Mowing and Conditioning	153	2.50-18.00	7.00	7.06	6.76	104
Swathing	131	1.00-12.50	7.00	5.72	5.31	108
Side Delivery Raking	69	0.50- 6.00	3.00	2.90	2.54	114
Baling (Wire or Twine Included)						
----- Dollars Per Bale -----						
Small Square Bales, 250 Lbs or less	70	0.06- 4.00	0.50	0.81	0.62	131
Large Square Bales, Over 250 Lbs	44	1.50-25.00	5.00	7.33	6.34	116
Round Bales, 1,500 Lbs or less	337	2.00-18.00	5.00	5.71	NA	NA
Round Bales, Over 1,500 Lbs.	178	3.00-25.00	6.00	6.88	6.11	113
Mechanized Loose Hay Stacking						
----- Dollars Per Stack -----						
Stack, 1.5 - 3 Ton	10	4.50-33.00	20.00	18.50	17.06	108
Stack, 3 - 6 Ton	13	7.00-40.00	25.00	24.23	24.06	101
Stack, Over 6 Ton	6	12.00-50.00	35.00	30.00	30.64	98

FARMING REGION AVERAGES, NORTH DAKOTA, 2001

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	12	1.00-18.00	6.00	7.50	22	2.50-14.00	7.00	6.25	22	2.50- 9.00	6.00	5.23
WC	16	1.40-10.00	6.00	6.25	30	3.00-18.00	6.00	6.60	29	2.00- 7.50	5.00	4.94
EC	25	3.00-10.50	8.00	7.74	42	3.00-10.00	6.00	6.46	55	3.00-10.50	5.00	5.54
RRV	14	1.00-15.00	6.00	7.14	20	3.00-11.00	5.00	6.28	22	4.00-10.00	5.00	6.23
STATE	67	1.00-18.00	6.00	7.22	114	2.50-18.00	6.00	6.43	128	2.00-10.50	5.00	5.47

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	26	2.00- 7.00	4.00	4.86	16	2.75- 8.00	6.00	5.27	14	1.00-6.50	3.00	3.43
WC	33	1.50- 8.00	5.00	4.14	30	1.50- 9.00	5.00	5.25	26	0.90-8.00	3.00	3.27
EC	64	1.50- 8.00	5.00	4.70	36	2.00-10.00	6.00	5.39	37	0.75-6.00	2.00	3.20
RRV	26	3.00-15.00	4.00	6.09	20	3.00-12.00	5.00	5.95	17	0.75-5.50	3.00	2.81
STATE	149	1.50-15.00	5.00	4.85	102	1.50-12.00	5.00	5.44	94	0.75-8.00	3.00	3.18

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	21	1.50-5.00	3.00	3.48	10	1.00-6.00	1.00	3.70	18	3.00-13.00	8.00	8.36
WC	36	1.00-8.00	4.00	3.65	22	1.00-8.00	5.00	4.32	23	3.00-14.00	5.00	7.12
EC	35	1.00-7.00	3.00	3.72	35	1.00-8.00	4.00	4.30	37	3.00-12.00	7.00	7.11
RRV	14	1.00-5.50	3.00	3.48	18	1.00-7.50	4.00	4.14	21	3.50-12.00	7.00	6.90
STATE	106	1.00-8.00	3.00	3.62	85	1.00-8.00	4.00	4.20	99	3.00-14.00	7.00	7.30

Region	Drilling and Tillage With Fertilizer				Air Seeding With Fertilizer				Minimum Tillage 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	15	3.25-14.00	10.00	9.28	71	5.00-18.00	10.00	10.40	45	3.75-15.00	10.00	10.05
WC	24	4.00-20.00	6.00	8.67	94	2.00-20.00	10.00	9.35	41	2.00-17.00	8.00	9.66
EC	28	3.50-15.00	9.00	9.13	98	3.00-13.00	7.00	8.73	49	3.25-14.00	12.00	10.67
RRV	15	6.00-20.00	10.00	9.43	39	3.50-13.00	8.00	8.89	14	3.50-15.00	8.00	10.32
STATE	82	3.25-20.00	10.00	9.08	302	2.00-20.00	10.00	9.34	149	2.00-17.00	10.00	10.17

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	17	5.00-12.00	6.00	7.49	92	0.75-6.00	3.50	3.46	8	3.00- 7.00	3.50	4.53
WC	37	2.00-11.00	6.00	6.55	104	1.75-7.00	3.50	3.46	27	3.50-19.00	3.75	5.36
EC	56	3.00-14.00	7.00	6.98	175	1.00-9.00	4.00	3.68	54	1.00-15.00	3.50	4.22
RRV	21	3.50-12.00	5.00	7.27	119	1.50-7.00	4.00	3.86	47	3.50-10.00	4.00	4.29
STATE	131	2.00-14.00	6.00	6.97	490	0.75-9.00	3.50	3.64	136	1.00-19.00	4.00	4.49

FARMING REGION AVERAGES, NORTH DAKOTA, 2001

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	52	1.50- 9.00	5.00	5.33	21	4.50- 9.00	5.00	6.14	105	1.00- 6.00	3.50	3.42
WC	36	1.00-10.00	6.00	4.99	29	1.00-10.00	6.00	6.23	131	1.25-13.00	3.50	3.95
EC	67	1.50-10.00	5.00	5.31	44	2.50-12.00	5.00	6.09	179	1.50-11.00	4.00	3.94
RRV	39	3.50-12.00	6.00	5.66	26	3.75-12.00	8.00	6.93	120	2.50- 9.00	4.00	4.14
STATE	194	1.00-12.00	5.00	5.33	120	1.00-12.00	5.00	6.32	535	1.00-13.00	4.00	3.89

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	52	2.50-10.00	3.50	3.56	41	3.00-6.20	3.50	4.18	34	3.00-7.35	5.00	4.63
WC	73	2.75- 9.00	3.50	3.80	55	2.00-5.50	4.00	3.85	57	2.00-6.25	4.00	4.29
EC	106	1.00-12.00	4.00	3.99	94	3.00-6.00	4.50	4.29	100	2.50-6.00	4.50	4.46
RRV	81	2.50- 7.00	4.00	4.22	57	3.00-6.00	4.50	4.49	76	3.00-7.50	4.50	4.56
STATE	312	1.00-12.00	4.00	3.93	247	2.00-6.20	4.50	4.22	267	2.00-7.50	4.50	4.47

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	53	3.00-10.00	6.00	6.82	56	1.50-10.00	7.00	6.10	17	0.15-1.50	0.40	0.47
WC	47	3.00-18.00	7.00	7.62	40	1.00-12.00	7.00	5.54	24	0.06-3.00	0.50	1.03
EC	40	2.50-10.00	10.00	6.83	28	2.00-10.00	4.00	5.18	19	0.20-4.00	0.50	0.99
RRV	13	2.50-10.00	6.00	6.73	7	1.00-12.50	NA	5.93	10	0.12-2.00	0.40	0.53
STATE	153	2.50-18.00	7.00	7.06	131	1.00-12.50	7.00	5.72	70	0.06-4.00	0.50	0.81

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	118	2.50-10.00	5.00	5.83	56	4.00-13.00	6.00	6.79	57	35.00-130.00	100.00	94.39
WC	98	2.00-18.00	5.00	5.65	59	3.00-25.00	5.00	6.90	56	37.50-100.00	80.00	76.91
EC	93	3.00-12.00	5.00	5.58	52	3.50-25.00	6.00	6.72	39	20.00-150.00	75.00	82.95
RRV	28	3.00-15.00	5.00	5.85	11	5.00-20.00	6.00	8.09	8	55.00-100.00	100.00	85.00
STATE	337	2.00-18.00	5.00	5.71	178	3.00-25.00	6.00	6.88	160	20.00-150.00	100.00	85.01

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	52	0.02-0.35	0.05	0.08	70	10.00-55.00	25.00	32.96	49	15.00-100.00	50.00	59.59
WC	59	0.02-0.25	0.10	0.07	75	9.00-80.00	40.00	37.45	75	15.00-120.00	75.00	64.13
EC	64	0.02-0.70	0.05	0.09	74	6.00-50.00	25.00	30.78	64	15.00-105.00	75.00	60.58
RRV	38	0.01-0.50	0.05	0.08	27	10.00-80.00	40.00	36.37	42	25.00-125.00	75.00	64.33
STATE	213	0.01-0.70	0.05	0.08	246	6.00-80.00	25.00	34.05	230	15.00-125.00	75.00	62.21

**2001 NORTH DAKOTA STATEWIDE AVERAGES FOR
HARVESTING CROPS, SEED PREPARATION AND MACHINE RENTAL**

Operation	Unit	2001				1998 Average Rate	2001 as Percent of 1998
		Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Rate		
HARVESTING GRAIN CROPS		No.	----- Dollars Per Unit -----				Pct.
Swathing Grain							
Self-Propelled	Acre	287	2.00-13.00	5.00	5.47	5.04	109
	Hour	10	10.00-100.00	20.00	41.90	58.30	72
Pull-Type	Acre	194	1.50-16.00	5.00	5.23	4.58	114
	Hour	4	15.00-39.00	---	25.50	45.25	56
Swathing Canola							
Self-Propelled	Acre	177	3.00-10.00	6.00	6.10	---	---
	Hour	11	20.00-120.00	100.00	73.00	---	---
Pull-Type	Acre	115	1.00-12.00	5.00	5.77	---	---
	Hour	4	18.00-50.00	---	31.50	---	---
Combining From Swaths							
Small Grains & Flaxseed	Acre	513	3.00-30.00	15.00	14.72	---	---
	Hour	43	45.00-130.00	100.00	98.77	---	---
Dry Edible Beans	Acre	98	10.00-35.00	20.00	19.06	19.06	100
	Hour	5	100.00-145.00	100.00	111.00	95.28	116
Canola	Acre	253	4.00-20.00	17.00	15.25	---	---
	Hour	19	70.00-130.00	100.00	107.11	---	---
Straight Combining							
Small Grains & Flaxseed	Acre	652	4.00-30.00	15.00	15.03	---	---
	Hour	43	45.00-130.00	100.00	103.13	---	---
Corn	Acre	181	10.00-30.00	15.00	17.33	16.26	107
	Hour	10	65.00-150.00	100.00	105.50	95.31	111
Sunflower	Acre	276	8.00-25.00	15.00	15.29	14.49	106
	Hour	13	90.00-130.00	100.00	106.54	103.98	102
Soybeans	Acre	237	10.00-24.00	18.00	16.72	16.10	104
	Hour	21	60.00-150.00	100.00	103.69	101.43	102
Dry Edible Beans	Acre	78	12.00-30.00	18.00	18.29	19.10	96
	Hour	6	90.00-150.00	---	119.17	80.57	148
Dry Bean Harvesting							
Cutting Only (Knifing)	Acre	34	4.00-20.00	10.00	10.69	9.24	116
Windrowing (After Knifing)	Acre	16	3.00-20.00	5.00	6.47	7.14	91
Cutting & Windrowing (One Operation)	Acre	42	6.00-45.00	15.00	16.31	16.85	97
Sugarbeet Harvesting							
Topping	Acre	7	8.00-20.00	12.00	14.14	10.44	135
Lifting	Acre	9	12.00-60.00	30.00	35.44	30.70	115
MAKING CORN SILAGE							
Field Chopping Only	Acre	76	5.00-45.00	20.00	20.78	18.69	111
	Hour	10	50.00-200.00	65.00	90.40	61.35	147
Field Chopping and Hauling	Acre	67	10.00-50.00	25.00	26.26	23.62	111
	Hour	17	30.00-500.00	75.00	168.18	74.87	225
SEED PREPARATION							
Seed Grain							
Cleaning Only	Gross Bu.	610	0.03-1.25	0.35	0.361	0.340	106
Treating Only	Gross Bu.	64	0.05-1.75	1.00	0.514	0.519	99
Cleaning and Treating	Gross Bu.	67	0.22-2.50	0.50	0.846	0.726	117
Flaxseed							
Cleaning Only	Gross Bu.	143	0.05-1.50	0.50	0.564	0.421	134
Treating Only	Gross Bu.	18	0.06-1.75	0.50	0.539	0.381	141
Cleaning and Treating	Gross Bu.	15	0.32-1.60	1.00	1.029	0.819	126
MACHINE RENTAL							
Tractor							
Under 100 Horsepower	Hour ^{1/}	150	5.00-100.00	20.00	22.22	---	---
100 - 200 Horsepower	Hour ^{1/}	195	10.00-105.00	25.00	30.11	---	---
Over 200 Horsepower	Hour ^{1/}	176	12.00-130.00	40.00	43.82	---	---
Combine							
Acre		27	7.00-30.00	10.00	13.42	---	---
Hour ^{1/}		256	15.00-150.00	100.00	93.12	---	---
Grain Cart Rental							
Acre		14	0.50-10.00	2.00	3.29	---	---
Hour ^{1/}		9	9.00-50.00	20.00	22.89	---	---
Swather							
Self-Propelled	Acre	52	1.00-10.00	4.00	4.76	---	---
	Hour ^{1/}	15	12.00-65.00	40.00	38.80	---	---
Pull-Type	Acre	38	1.00-7.50	3.00	3.90	---	---
	Hour ^{1/}	8	7.00-50.00	20.00	24.63	---	---

^{1/} Rates for machine rentals are in tachometer hours.

2001 NORTH DAKOTA STATEWIDE AVERAGES FOR DRYING AND HAULING CROPS, HAY AND CATTLE

Operation	Unit	Basic Charge - 2001					1998 Average Rate	2001 as % of 1998	Extra Charge - 2001	
		Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Maximum Moisture Content	Average Rate			No. Rpts.	For Each Additional 1% Moisture Removed
		No.	- Dollars Per Unit -		Percent	-- Dollars Per Unit --		Pct.	No.	\$/Unit
DRYING GRAIN										
Small Grains	Bu.	101	0.02-0.40	0.10	15.64	0.113	0.123	92	59	0.034
Corn	Bu.	52	0.01-.040	0.10	17.96	0.132	0.146	90	38	0.034
Sunflower	Cwt.	34	0.05-0.40	0.10	13.74	0.165	0.171	96	26	0.047
Flaxseed	Bu.	14	0.02-0.20	0.10	13.21	0.109	0.134	81	9	0.028
Soybeans	Bu.	11	0.02-0.30	0.08	15.64	0.125	0.115	109	8	0.023

Operation	Unit	Basic Charge - 2001					1998 Average Rate	2001 as % of 1998	Extra Charge - 2001	
		Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Base Mileage	Average Rate			No. Rpts.	Per 10 Miles Over Base Mileage
		No.	- Dollars Per Unit -		Miles	-- Dollars Per Unit --		Pct.	No.	\$/Unit
HAULING CROPS										
Wheat, All	Bu.	359	0.02-0.70	0.10	28.28	0.116	0.109	106	79	0.060
Barley	Bu.	168	0.02-0.53	0.10	36.20	0.117	0.101	116	47	0.059
Oats	Bu.	98	0.02-0.40	0.10	24.93	0.107	0.100	107	29	0.051
Sunflower	Cwt.	64	0.03-1.10	0.50	65.50	0.378	0.339	112	18	0.119
Canola	Cwt.	56	0.05-1.50	0.10	62.48	0.369	—	—	14	0.081
Flaxseed	Bu.	44	0.03-0.29	0.10	23.17	0.107	0.124	86	18	0.061
Corn	Bu.	41	0.04-0.29	0.10	21.70	0.114	0.101	113	13	0.065
Sugarbeets	Ton	17	0.04-5.00	4.00	16.85	3.93	4.231	93	1	D

Operation	Unit	Basic Charge - 2001					1998 Average Rate	2001 as % of 1998	Loading Charge - 2001	
		Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Rate	No. Rpts.			Charge	
		No.	----- Dollars Per Unit -----					Pct.	No.	\$/Load
HAULING HAY										
By the Load (Loose & Bales)										
Less than 10 tons	Mile ^{1/}	74	0.25-6.00	2.00	2.37	2.19	108	40	18.48	
10 - 20 tons	Mile ^{1/}	121	0.30-7.50	3.00	2.69	2.45	110	87	20.56	
Over 20 tons	Mile ^{1/}	78	0.30-4.00	3.00	2.72	2.49	109	45	24.02	
By the Bale										
Small Sq. Bales ^{2/}	Bale	5	0.10-2.25	0.25	0.87	0.52	167	} Included in basic charges		
Large Sq. Bales ^{2/}	Bale	8	0.40-5.00	2.00	2.24	3.73	60			
Large Rd. Bales ^{2/}	Bale	58	0.30-6.00	2.00	2.48	2.48	100			
HAULING CATTLE										
Gooseneck Trailer	Mile ^{3/}	222	0.25-5.00	2.00	1.98	1.90	104	162	123.27	
Semi Trailer	Mile ^{3/}	228	0.07-10.00	3.00	2.78	2.46	113	192	448.69	

D = Insufficient Reports. 1/ Loaded Mile, Excludes Loading. 2/ Average rate based on an average of 17.7 miles for small square bales, 14.8 miles for large square bales, and 19.1 miles for large round bales. Extra charges apply for hauls exceeding this base mileage were \$0.15 per mile for small square bales, \$0.14 per miles for large square bales, and \$0.25 per mile for large round bales. 3/ Loaded Mile.

2001 NORTH DAKOTA STATEWIDE AVERAGES, OTHER CUSTOM WORK

Operation	2001					1998 Average Rate	2001 as Percent of 1998
	Unit	Number of Reports	Range in Rates	Most Frequent Rate Reported	Average Rate		
CUSTOM FARMING ^{1/}		No.	----- Dollars Per Unit -----				Pct.
Small Grains	Acre	83	12.00-100.00	40.00	40.73	41.82	97
Row Crops	Acre	40	15.00-150.00	60.00	54.55	52.36	104
MISCELLANEOUS							
Mowing/Clipping CRP	Acre	220	1.00-25.00	5.00	6.22	---	---
	Hour	14	6.00-55.00	6.00	22.25	---	---
Farm Drainage/Ditching	Hour	74	10.00-225.00	100.00	84.80	76.25	111
Land Leveling	Hour	32	13.00-100.00	50.00	64.31	63.26	102
Rock Picking	Hour	53	5.00-130.00	50.00	42.72	52.29	82
Snow Removal							
Front End Loader	Hour	247	7.50-100.00	50.00	48.84	49.73	98
Tractor Blower	Hour	224	6.00-110.00	50.00	43.50	43.03	101

^{1/} Includes all necessary farming operations from field preparation through harvesting.

1980 - 2001 STATEWIDE AVERAGES, HISTORICAL DATA

Operation	Unit	1980	1982	1984	1986	1989	1992	1995	1998	2001
		----- Dollars Per Unit -----								
Swathing Grain										
Self-Propelled	Acre	3.12	3.55	3.73	3.67	3.94	4.22	4.46	5.04	5.47
PTO Unit	Acre	2.93	3.16	3.36	3.39	3.68	4.03	4.23	4.58	5.23
Combining From Swaths										
Small Grains & Flaxseed ^{1/}	Acre	11.03	12.65	12.61	11.59	11.82	13.13	13.70	13.82	14.72
Dry Beans	Acre	13.66	15.91	15.04	14.65	16.27	18.20	18.18	19.06	19.06
Straight Combining										
Small Grains & Flaxseed ^{1/}	Acre	NA	12.76	12.57	11.71	11.80	13.15	13.74	13.88	15.03
Corn	Acre	13.01	15.10	14.83	14.46	14.05	15.23	16.33	16.26	17.33
Sunflower	Acre	12.12	13.52	13.26	12.54	12.40	13.54	14.14	14.49	15.29
Soybeans	Acre	NA	14.46	14.68	14.08	14.20	15.70	15.57	16.10	16.72
Dry Beans	Acre	NA	16.12	15.31	15.46	16.46	18.39	17.96	19.10	18.29
Making Corn Silage										
Chopping Only	Acre	13.59	15.76	16.41	16.06	16.83	17.65	18.51	18.69	20.78
Chopping and Hauling	Acre	16.55	18.42	21.22	19.54	20.02	21.65	22.62	23.62	26.26
Drying										
Small Grains	Bushel	0.159	0.151	0.152	0.131	0.118	0.108	0.111	0.123	0.113
Flaxseed	Bushel	NA	0.172	0.172	0.153	0.124	0.110	0.134	0.134	0.109
Corn	Bushel	0.180	0.181	0.176	0.164	0.126	0.115	0.123	0.146	0.132
Sunflower	Cwt.	0.273	0.286	0.309	0.204	0.200	0.157	0.152	0.171	0.165
Soybeans	Bushel	NA	NA	NA	NA	NA	0.093	0.085	0.115	0.125
Hauling										
Wheat	Bushel	0.108	0.107	0.095	0.096	0.092	0.090	0.098	0.109	0.116
Barley	Bushel	0.101	0.101	0.091	0.093	0.089	0.088	0.094	0.101	0.117
Oats	Bushel	0.092	0.098	0.089	0.087	0.088	0.087	0.094	0.100	0.107
Flaxseed	Bushel	NA	0.110	0.096	0.088	0.094	0.091	0.097	0.124	0.107
Corn	Bushel	NA	0.107	0.091	0.086	0.085	0.087	0.097	0.101	0.114
Sunflower	Cwt.	0.149	0.170	0.165	0.168	0.202	0.196	0.189	0.339	0.378
Seed Grain Preparation										
Cleaning Only	Gross Bu.	0.221	0.254	0.275	0.277	0.291	0.299	0.321	0.340	0.361
Treating Only	Gross Bu.	0.263	0.318	0.404	0.393	0.437	0.504	0.552	0.519	0.514
Cleaning & Treating	Gross Bu.	0.457	0.542	0.678	0.643	0.718	0.784	0.800	0.726	0.846
Farm Drainage/Ditching	Hour	43.24	50.54	56.80	54.48	50.34	58.66	63.49	76.25	84.80
Land Leveling	Hour	42.67	51.55	55.21	51.17	48.03	58.31	60.61	63.26	64.31
Rock Picking	Hour	22.34	37.02	35.69	35.34	37.55	40.20	39.26	52.29	42.72

^{1/} Averages for years 1980-1998 do not include flaxseed. NA = Not Available

2001 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
	No.	--- Dollars Per Acre ---			No.	--- Dollars Per Acre ---			No.	--- Dollars Per Acre ---		
W	108	2.00-13.00	6.00	5.69	56	1.50-14.00	5.00	5.51	40	3.25-9.00	6.00	6.01
WC	88	3.00-10.00	5.00	5.30	54	2.50-12.00	5.00	5.03	65	3.00-8.50	6.00	5.80
EC	72	2.50-8.00	5.00	5.32	65	2.00-16.00	5.00	5.25	61	3.00-10.00	6.00	6.31
RRV	19	2.00-9.00	5.00	5.53	19	2.00-8.00	5.00	4.89	11	3.00-10.00	8.00	7.05
STATE	287	2.00-13.00	5.00	5.47	194	1.50-16.00	5.00	5.23	177	3.00-10.00	6.00	6.10
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
	No.	--- Dollars Per Acre ---			No.	--- Dollars Per Acre ---			No.	--- Dollars Per Acre ---		
W	26	1.00-8.00	5.00	5.57	150	3.00-20.00	15.00	14.66	11	12.00-30.00	15.00	16.64
WC	43	3.00-12.00	6.00	5.60	136	4.00-20.00	15.00	13.98	13	10.00-25.00	16.00	16.85
EC	39	3.00-10.00	5.00	6.03	176	5.00-30.00	15.00	15.44	43	15.00-35.00	20.00	20.17
RRV	7	2.00-9.00	5.00	6.14	51	7.00-19.00	15.00	14.39	31	14.00-25.00	20.00	19.29
STATE	115	1.00-12.00	5.00	5.77	513	3.00-30.00	15.00	14.72	98	10.00-35.00	20.00	19.06
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
	No.	--- Dollars Per Acre ---			No.	--- Dollars Per Acre ---			No.	--- Dollars Per Acre ---		
W	60	8.00-20.00	17.00	15.52	229	10.00-19.00	15.00	14.82	30	12.00-22.50	15.00	16.72
WC	84	4.00-20.00	15.00	14.47	175	4.00-20.00	15.00	14.71	38	10.00-22.00	15.00	15.92
EC	94	10.00-19.00	17.00	15.94	178	10.00-30.00	15.00	15.63	78	12.00-30.00	20.00	17.96
RRV	15	7.00-19.00	17.00	14.27	70	10.00-25.00	15.00	15.01	35	10.00-25.00	20.00	17.99
STATE	253	4.00-20.00	17.00	15.25	652	4.00-30.00	15.00	15.03	181	10.00-30.00	15.00	17.33
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
	No.	--- Dollars Per Acre ---			No.	--- Dollars Per Acre ---			No.	--- Dollars Per Acre ---		
W	48	10.50-20.00	15.00	15.47	11	13.00-20.00	18.00	15.82	14	14.00-30.00	18.00	17.86
WC	89	8.00-20.00	15.00	14.56	39	10.00-23.00	15.00	16.49	12	12.00-20.00	18.00	16.25
EC	110	10.00-23.00	15.00	15.75	124	10.00-22.00	18.00	17.12	28	13.50-25.00	20.00	18.88
RRV	29	10.00-25.00	15.00	15.43	63	11.00-24.00	18.00	16.25	24	12.00-25.00	20.00	18.90
STATE	276	8.00-25.00	15.00	15.29	237	10.00-24.00	18.00	16.72	78	12.00-30.00	18.00	18.29
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
	No.	--- Dollars Per Acre ---			No.	--- Dollars Per Acre ---			No.	--- Dollars Per Gross Bushel ---		
W	28	5.00-30.00	20.00	16.79	19	12.00-50.00	20.00	23.74	191	0.04-1.00	0.35	0.343
WC	21	7.00-32.00	25.00	22.83	26	10.00-40.00	30.00	27.54	182	0.05-0.80	0.35	0.333
EC	24	10.00-45.00	30.00	23.75	20	12.00-48.00	25.00	27.43	165	0.04-1.25	0.35	0.380
RRV	3	D	D	D	2	D	D	D	72	0.03-0.85	0.50	0.438
STATE	76	5.00-45.00	20.00	20.78	67	10.00-50.00	25.00	26.26	610	0.03-1.25	0.35	0.361
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
	No.	--- Dollars Per Gross Bushel ---			No.	--- Dollars Per Gross Bushel ---			No.	--- Dollars Per Gross Bushel ---		
W	21	0.25-1.00	0.40	0.541	17	0.05-1.75	1.00	0.516	16	0.30-1.40	0.35	0.713
WC	66	0.15-1.50	0.50	0.583	13	0.12-1.00	0.15	0.375	16	0.43-1.40	0.50	0.743
EC	50	0.05-1.40	0.50	0.532	21	0.05-1.00	0.50	0.479	20	0.22-1.50	1.00	0.826
RRV	6	0.30-1.50	--	0.708	13	0.25-1.35	1.00	0.706	15	0.40-2.50	1.50	1.123
STATE	143	0.05-1.50	0.50	0.564	64	0.05-1.75	1.00	0.514	67	0.22-2.50	0.50	0.846

D = Insufficient Reports

2001 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		
	No.	--- Dollars Per Bushel ---			Percent	No.	--- Dollars Per Bushel ---			Percent		
W	10	0.03-0.18	0.10	0.103	16.50	1	D	D	D	D		
WC	27	0.05-0.20	0.10	0.111	15.30	6	0.05-0.30	0.12	0.155	16.00		
EC	39	0.02-0.40	0.10	0.112	15.67	27	0.03-0.30	0.15	0.136	18.26		
RRV	25	0.02-0.40	0.10	0.121	15.64	18	0.01-0.40	0.10	0.119	18.06		
STATE	101	0.02-0.40	0.10	0.113	15.64	52	0.01-0.40	0.10	0.132	17.96		
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		
	No.	--- Dollars Per Cwt. ---			Percent	No.	--- Dollars Per Bushel ---			Percent		
W	1	D	D	D	D	1	D	D	D	D		
WC	10	0.05-0.20	0.15	0.134	13.30	2	D	D	D	D		
EC	14	0.05-0.40	0.10	0.151	13.64	8	0.02-0.20	0.10	0.116	13.38		
RRV	9	0.05-0.40	0.40	0.211	14.56	3	D	D	D	D		
STATE	34	0.05-0.40	0.10	0.165	13.74	14	0.02-0.20	0.10	0.109	13.21		
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		
	No.	--- Dollars Per Bushel ---			Miles	No.	--- Dollars Per Bushel ---			Miles		
W	142	0.05-0.32	0.10	0.126	31.52	35	0.05-0.22	0.10	0.108	28.33		
WC	97	0.03-0.70	0.10	0.115	24.29	27	0.03-0.35	0.10	0.110	23.80		
EC	94	0.02-0.30	0.10	0.109	28.88	28	0.02-0.40	0.10	0.106	22.35		
RRV	26	0.05-0.25	0.05	0.082	23.50	8	0.05-0.25	0.05	0.088	22.43		
STATE	359	0.02-0.70	0.10	0.116	28.28	98	0.02-0.40	0.10	0.107	24.93		
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		
	No.	--- Dollars Per Bushel ---			Miles	No.	--- Dollars Per Cwt. ---			Miles		
W	55	0.04-0.53	0.10	0.131	40.38	7	0.13-1.00	0.16	0.399	85.00		
WC	50	0.03-0.35	0.10	0.117	37.46	22	0.03-1.05	0.10	0.428	83.28		
EC	50	0.02-0.30	0.10	0.102	31.05	26	0.05-0.85	0.50	0.342	46.18		
RRV	13	0.05-0.40	0.05	0.113	31.40	9	0.07-1.10	0.08	0.348	50.67		
STATE	168	0.02-0.53	0.10	0.117	36.20	64	0.03-1.10	0.50	0.378	65.50		
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		
	No.	--- Dollars Per Bushel ---			Miles	No.	--- Dollars Per Bushel ---			Miles		
W	6	0.10-0.22	0.10	0.137	22.50	5	0.10-0.25	0.10	0.130	26.00		
WC	17	0.03-0.16	0.10	0.109	20.69	6	0.06-0.25	0.10	0.125	16.00		
EC	16	0.05-0.29	0.10	0.104	20.38	21	0.04-0.29	0.10	0.101	17.25		
RRV	5	0.05-0.10	--	0.078	41.25	9	0.07-0.27	0.10	0.126	32.86		
STATE	44	0.03-0.29	0.10	0.107	23.17	41	0.04-0.29	0.10	0.114	21.70		
Region	CUSTOM FARMING SMALL GRAIN ^{1/}				CUSTOM FARMING ROW CROPS ^{1/}				ROCK PICKING			
	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate	No. Rpts.	Range	Most Frequent	Average Rate
	No.	--- Dollars Per Acre ---			No.	--- Dollars Per Acre ---			No.	--- Dollars Per Hour ---		
W	25	12.00-83.50	30.00	34.28	8	18.00-70.00	25.00	38.25	13	5.00-54.00	50.00	35.31
WC	24	15.00-100.00	30.00	39.67	10	15.00-90.00	60.00	54.80	19	10.00-100.00	50.00	50.79
EC	21	14.00-80.00	40.00	42.54	12	25.00-100.00	30.00	52.08	18	6.00-130.00	20.00	41.94
RRV	13	18.00-100.00	50.00	52.19	10	30.00-150.00	50.00	70.30	3	D	D	D
STATE	83	12.00-100.00	40.00	40.73	40	15.00-150.00	60.00	54.55	53	5.00-130.00	50.00	42.72

D = Insufficient Reports. 1/ Includes all necessary farming operations from field preparation through harvesting.

For more information on this and other topics, see: www.ag.ndsu.nodak.edu

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