



Ohio Farm Custom Rates 2022

Barry Ward, Leader, Production Business Management

OSU Extension, Agriculture and Natural Resources

F. John Barker, Extension Educator Agriculture/Amos Program

Ohio State University Extension Knox County

Eric Richer, Extension Educator Agriculture & Natural Resources

Ohio State University Extension Fulton County

Farming is a complex business and many Ohio farmers utilize outside assistance for specific farm-related work. This option is appealing for tasks requiring specialized equipment or technical expertise. Often, having someone else with specialized tools perform tasks is more cost effective and saves time. Farm work completed by others is often referred to as “custom farm work” or more simply, “custom work”. A “custom rate” is the amount agreed upon by both parties to be paid by the custom work customer to the custom work provider.

Ohio Farm Custom Rates

This publication reports custom rates based on a statewide survey of 223 farmers, custom operators, farm managers, and landowners conducted in 2022. These rates, except where noted, include the implement and tractor if required, all variable machinery costs such as fuel, oil, lube, twine, etc., and labor for the operation.

Some custom rates published in this study vary widely, possibly influenced by:

- Type or size of equipment used (e.g. 20-shank chisel plow versus a 9-shank)
- Size and shape of fields,
- Condition of the crop (for harvesting operations)
- Skill level of labor
- Amount of labor needed in relation to the equipment capabilities
- Cost margin differences for full-time custom operators compared to farmers supplementing current income

Some custom rates reflect discounted rates as the parties involved have family or community relationships, Discounted rates may also occur when the custom work provider is attempting to strengthen a relationship to help secure the custom farmed land in a future purchase, cash rental or other rental agreement. Some providers charge differently because they are simply attempting to spread their fixed costs over more acreage to decrease fixed costs per acre and are willing to forgo complete cost recovery.

Charges may be added if the custom provider considers a job abnormal such as distance from the operator’s base location, difficulty of terrain, amount of product or labor involved with the operation, or other special requirements of the custom work customer.

The measures shown in the following tables are the summary of the survey respondents. The measures are the Maximum, Minimum, Responses, Average (Mean), Median, Standard Deviation, and Range. The Maximum and Minimum reported in the table are the maximum and minimum amounts reported from the survey data for a given custom operation. Responses indicates the number of survey responses for each given operation. Average reported in this publication is a simple



average of all the survey responses for each operation. The median represents the middle value of the survey responses. Standard Deviation is a measure of variability. Range identified in the tables consists of two numbers. The first is the average plus the standard deviation. The second number of the range is the average minus the standard deviation. In cases where there were too few responses to statistically analyze, statistics are not presented due to the low response rate.

The data from this survey are intended to show a representative farming industry cost for specified machines and operations in Ohio. As a custom provider, the average rates reported in this publication may not cover your total costs for performing the custom service. As a customer, you may not be able to hire a custom service for the average rate published in this factsheet.

It is recommended that you calculate your own costs carefully before determining the rate to charge or pay. It may be helpful to compare the custom rates reported in this fact sheet with machinery costs calculated by economic engineering models available by searching University of Minnesota farm machinery cost estimates. The following resources are available to help you calculate and consider the total costs of performing a given machinery operation. You may also consider using the data contained in multiple publications as a base for future custom rates. Suggested publications are:

Farm Machinery Cost Estimates, available by searching University of Minnesota.

Illinois Farm Management Handbook, available by searching University of Illinois farmdoc.

Estimating Farm Machinery Costs, available by searching Iowa State University agriculture decision maker and machinery management.

2022 Survey Responses

Below are tables summarizing the results of the 2022 Ohio Farm Custom Rate Survey. Remember, fuel prices have an impact on custom rates and rates may fluctuate based on large movements in fuel prices. The average price of retail on-highway diesel in 2021 according the U.S. Energy Information Administration (EIA) was \$3.29 per gallon. The approximate price of diesel fuel during the survey period ranged from \$4.50 - \$5.25 per gallon for off-road (farm) usage. At the end of this fact sheet is a sample calculation of machinery rental based on custom rates reported in this survey.

Special note: Before entering into an agreement, discuss all of the details of the specific job with the other party.



Ohio Farm Custom Rates 2022

Operation	Max	Min	Responses	Average	Median	Stan Dev	Range	
Soil Preparation								
Stalk Chopper (\$/Acre):	\$18	\$6	9	\$12.60	\$12.00	\$3.72	\$16.32	\$8.88
Moldboard Plow (\$/Acre):	\$50	\$11	10	\$24.20	\$20.00	\$11.64	\$35.84	\$12.56
Chisel Plow (\$/Acre):	\$45	\$10	22	\$19.60	\$18.00	\$7.78	\$27.38	\$11.82
Disk Chisel (\$/Acre):	\$45	\$10	32	\$21.20	\$18.25	\$7.66	\$28.86	\$13.54
Disk Tandem (\$/Acre):	\$30	\$8	26	\$17.30	\$16.00	\$5.51	\$22.81	\$11.79
Disk Heavy or Offset (\$/Acre):	\$50	\$12	11	\$24.70	\$25.00	\$9.60	\$34.30	\$15.10
Soil Finishing (\$/Acre):	\$45	\$9	33	\$19.50	\$17.50	\$7.89	\$27.39	\$11.61
Field Cultivator (\$/Acre):	\$45	\$9	34	\$17.40	\$15.25	\$6.93	\$24.33	\$10.47
Land Leveling (\$/Acre):	\$32	\$9	10	\$17.20	\$16.10	\$6.96	\$24.16	\$10.24
Subsoiling: 8-15 Inches Deep (\$/Acre):	\$50	\$15	23	\$26.70	\$25.00	\$8.10	\$34.80	\$18.60
V-Ripping: Over 15 Inches Deep (\$/Acre):	\$43	\$20	6	\$28.50	\$25.50	\$8.06	\$36.56	\$20.44
Strip Tillage (\$/Acre):	\$40	\$12	8	\$28.60	\$30.00	\$9.14	\$37.74	\$19.46
Strip Tillage w/Fert. Injection (\$/Acre):	\$50	\$9	9	\$30.10	\$32.00	\$11.44	\$41.54	\$18.66
Fertilizer Application - Ground								
Dry Bulk (\$/Acre):	\$10	\$3.50	52	\$6.90	\$7.00	\$1.55	\$8.45	\$5.35
Liquid, Knife (\$/Acre):	\$25	\$4.50	23	\$13.00	\$13.00	\$4.44	\$17.44	\$8.56
Liquid, Spray (\$/Acre):	\$13	\$5	36	\$8.40	\$8.00	\$1.68	\$10.08	\$6.72
Anhydrous (\$/Acre):	\$24	\$6	25	\$15.50	\$16.00	\$3.47	\$18.97	\$12.03
Late Season Nitrogen Application with Coulters (\$/Acre)	\$18	\$12	7	\$14.60	\$15.00	\$1.83	\$16.43	\$12.77
Late Season Nitrogen Application with Drops (\$/Acre)	\$16	\$8	19	\$11.80	\$12.00	\$2.45	\$14.25	\$9.35
Lime Application (Material not included) (\$/Acre):	\$15	\$4	22	\$8.50	\$8.00	\$2.39	\$10.89	\$6.11
OR Lime Application (Material not included) (\$/Ton):	\$12.50	\$1.80	13	\$8.00	\$8.00	\$2.44	\$10.44	\$5.56
Variable Rate Fertilizer Application (\$/Acre)	\$14	\$5.25	30	\$7.80	\$7.75	\$1.87	\$9.67	\$5.93
Number of Products Applied	3	1	16	1.80	2.00	0.634	2.43	1.17
Chemical Control of Weeds/Insects/Disease								
Spraying - Self Propelled Sprayer (\$/Acre)	\$15	\$4.50	91	\$8.20	\$8.00	\$2.22	\$10.42	\$5.98
Spraying - Pull-Type Sprayer (\$/Acre)	\$12	\$4	23	\$7.40	\$7.50	\$1.79	\$9.19	\$5.61
Spraying Late Season (Fungicide) (\$/Acre)	\$18	\$5.50	42	\$9.80	\$9.00	\$2.92	\$12.72	\$6.88
Mechanical Weed Control								
Rotary Hoeing (\$/Acre)	\$18	\$5	9	\$9.50	\$8.00	\$3.54	\$13.04	\$5.96
Conventional Cultivating (\$/Acre)	\$21	\$10	7	\$13.40	\$12.00	\$3.54	\$16.94	\$9.86
Weed Electrocution (\$/Acre)	\$40	\$34	6	\$35.70	\$35.00	\$1.97	\$37.67	\$33.73
Aerial Application								
Chemical (Fungicide etc.) (\$/Acre)	\$25	\$8	26	\$12.70	\$12.00	\$3.68	\$16.38	\$9.02
Seed (\$/Acre)	\$25	\$10	7	\$14.40	\$13.00	\$4.78	\$19.18	\$9.62
Fertilizer (\$/Acre)	\$25	\$9	9	\$14.70	\$14.00	\$4.89	\$19.59	\$9.81

Max = Maximum, Min = Minimum, St. Dev. = Standard deviation

Range = Average +/- 1 Standard Deviation,

¹ Standard deviation is a measure of the variability of the survey responses. One "standard deviation" both above and below the average (mean) includes approximately two-thirds of all survey responses.



Ohio Farm Custom Rates 2022

Planting Operations								
Conventional Tillage								
	Max	Min	Responses	Average	Median	Stan Dev	Range	
Plant Corn, 30 Inch Rows (\$/Acre)	\$35	\$12	37	\$22.50	\$22.00	\$5.04	\$27.54	\$17.46
Plant Corn, 30 Inch Rows with Fertilizer Application (\$/Acre)	\$50	\$12	54	\$23.60	\$23.00	\$7.54	\$31.14	\$16.06
Variable Rate Corn Planting (\$/Acre)	\$37	\$15	14	\$25.80	\$26.00	\$6.30	\$32.10	\$19.50
Plant Soybeans, 15 or 30 Inch Rows (\$/Acre)	\$50	\$13	60	\$22.40	\$21.00	\$6.19	\$28.59	\$16.21
Variable Rate Soybean Planting (\$/Acre)	\$32	\$15	14	\$24.00	\$25.00	\$5.18	\$29.18	\$18.82
Drill Soybeans (\$/Acre)	\$50	\$12	29	\$20.60	\$18.00	\$7.96	\$28.56	\$12.64
Drill Small Grains (\$/Acre)	\$50	\$10	33	\$19.70	\$18.00	\$8.04	\$27.74	\$11.66
No-Tillage								
	Max	Min	Responses	Average	Median	Stan Dev	Range	
Plant Corn, 30 Inch Rows (\$/Acre)	\$50	\$15	38	\$24.40	\$22.00	\$6.91	\$31.31	\$17.49
Plant Corn, 30 Inch Rows with Fertilizer Application (\$/Acre)	\$50	\$15	55	\$25.00	\$24.00	\$6.88	\$31.88	\$18.12
Variable Rate Corn Planting (\$/Acre)	\$38	\$18	11	\$28.10	\$28.00	\$6.53	\$34.63	\$21.57
Plant Soybeans, 15 or 30 Inch Rows (\$/Acre)	\$50	\$15	59	\$23.40	\$22.00	\$6.29	\$29.69	\$17.11
Variable Rate Soybean Planting (\$/Acre)	\$30	\$17	14	\$23.90	\$25.00	\$4.51	\$28.41	\$19.39
Drill Soybeans (\$/Acre)	\$50	\$12	34	\$20.90	\$18.00	\$8.02	\$28.92	\$12.88
Drill Small Grains (\$/Acre)	\$50	\$12	37	\$21.20	\$20.00	\$7.62	\$28.82	\$13.58
Grass/Legume/Pasture Seeding								
	Max	Min	Responses	Average	Median	Stan Dev	Range	
Broadcast (\$/Acre)	\$11	\$4	6	\$8.50	\$10.00	\$2.57	\$11.07	\$5.93
Grain Drill (\$/Acre)	\$35	\$10	24	\$20.00	\$20.00	\$5.87	\$25.87	\$14.13
Grain Harvest								
	Max	Min	Responses	Average	Median	Stan Dev	Range	
Harvest Corn: Combine, Grain Cart, Haul Local to Farm (\$/Acre)	\$90	\$22	65	\$38.80	\$35.00	\$12.43	\$51.23	\$26.37
Harvest Soybeans: Combine, Grain Cart, Haul Local to Farm (\$/Acre)	\$75	\$22	72	\$37.10	\$35.00	\$11.63	\$48.73	\$25.47
Harvest Wheat: Combine, Grain Cart, Haul Local to Farm (\$/Acre)	\$75	\$16	53	\$35.50	\$33.00	\$10.77	\$46.27	\$24.73
Added Charge GPS Mapping (\$/Acre)	\$7	\$1	12	\$2.40	\$1.84	\$1.77	\$4.17	\$0.63
Combine Only - Corn (\$/Acre)	\$55	\$15	70	\$33.20	\$32.00	\$6.77	\$39.97	\$26.43
Combine Only - Soybeans (\$/Acre)	\$55	\$15	76	\$32.20	\$30.00	\$6.65	\$38.85	\$25.55
Combine Only - Small Grains (\$/Acre)	\$55	\$15	52	\$32.10	\$30.00	\$7.59	\$39.69	\$24.51
Ear Corn Picker (\$/Acre)	\$25	\$10	3	Statistics not presented due to low response rate.				
Grain Cart (\$/Acre)	\$15	\$2	40	\$6.10	\$5.00	\$2.59	\$8.69	\$3.51
Grain Storage and Drying - On Farm								
	Max	Min	Responses	Average	Median	Stan Dev	Range	
Storage Charge (Cents/Bushel/Month)	\$0.14	\$0.02	28	\$0.048	\$0.045	\$0.022	\$0.070	\$0.026
Storage Charge (Cents/Bushel/Year)	\$0.72	\$0.10	19	\$0.252	\$0.180	\$0.175	\$0.427	\$0.077
Grain Drying (Cents/Per Point of Moisture Removed/Bushel)	\$0.090	\$0.025	15	\$0.042	\$0.040	\$0.015	\$0.058	\$0.027
Grain Storage and Drying - Commercial Elevator/Terminal								
	Max	Min	Responses	Average	Median	Stan Dev	Range	
Storage Charge per Month (Cents/Bushel/Month)	\$0.14	\$0.04	21	\$0.058	\$0.060	\$0.021	\$0.079	\$0.037
Storage Charge per Year (Cents/Bushel/Year)	\$0.72	\$0.20	7	\$0.453	\$0.480	\$0.218	\$0.671	\$0.234
Grain Drying (Cents/Per Point of Moisture Removed/Bushel)	\$0.090	\$0.025	10	\$0.048	\$0.040	\$0.020	\$0.068	\$0.028
Grain Hauling								
	Max	Min	Responses	Average	Median	Stan Dev	Range	
Farm to Market (Cents/Bushel)	\$0.49	\$0.03	77	\$0.18	\$0.16	\$0.09	\$0.27	\$0.09
In reference to the question above: Distance (Mileage One Way)	103	4	69	27	25	18.22	44.75	8.30
Field to Farm (Cents/Bushel)	\$0.18	\$0.05	30	\$0.11	\$0.10	\$0.04	\$0.15	\$0.07
In reference to the question above: Distance (Mileage One Way)	25	3	28	9	10	5.19	14.61	4.24

Max = Maximum, Min = Minimum, St. Dev. = Standard deviation

Range = Average +/- 1 Standard Deviation,

¹ Standard deviation is a measure of the variability of the survey responses. One “standard deviation” both above and below the average (mean) includes approximately two-thirds of all survey responses.



Ohio Farm Custom Rates 2022

Silage/Haylage Harvest and Handling

Corn Silage	Max	Min	Responses	Average	Median	Stan Dev	Range	
Chopping (\$/Ton)	\$11	\$5	5	\$8.20	\$8.00	\$2.14	\$10.34	\$6.06
Chop, Haul, Fill (\$/Ton)	\$15	\$7	4	\$10.50	\$10.00	\$3.20	\$13.70	\$7.30
Chop (\$/Hour)	\$900	\$175	3	Statistics not presented due to low response rate.				

Haylage	Max	Min	Responses	Average	Median	Stan Dev	Range	
Chop (\$/Hour)	\$550	\$175	4	\$362.50	\$362.50	\$135.21	\$497.71	\$227.29
Chop, Haul, Fill (\$/Hour)	\$640	\$275	2					

Other Silage	Max	Min	Responses	Average	Median	Stan Dev	Range	
Pack Bunker (\$/Hour)	\$125	\$65	4	\$82.50	\$70.00	\$24.87	\$107.37	\$57.63
Fill Silage Bag (\$/Ton)	\$7	\$5	2	Statistics not presented due to low response rate.				

Hay Harvest

Field Operations	Max	Min	Responses	Average	Median	Stan Dev	Range	
Mowing (\$/Acre)	\$29	\$7	13	\$13.70	\$13.50	\$5.63	\$19.33	\$8.07
Mowing/Conditioning (\$/Acre)	\$30	\$7	27	\$15.00	\$15.00	\$5.21	\$20.21	\$9.79
Raking (\$/Acre)	\$15	\$5	23	\$8.50	\$8.00	\$2.50	\$11.00	\$6.00
Tedding (\$/Acre)	\$15	\$5	20	\$8.50	\$8.00	\$2.84	\$11.34	\$5.66

Baling: Small Square Bales	Max	Min	Responses	Average	Median	Stan Dev	Range	
Baled and Dropped on Ground (\$/Bale)	\$1.75	\$0.30	10	\$0.85	\$0.85	\$0.39	\$1.24	\$0.46
Baled and Loaded on Wagon (\$/Bale)	\$2.25	\$0.30	16	\$1.20	\$1.00	\$0.55	\$1.75	\$0.65
Baled, Loaded, Hauled, and Stored (\$/Bale)	\$3.00	\$0.75	7	\$2.00	\$2.00	\$0.65	\$2.65	\$1.35

Baling: Large Round Bales - 1500# Bale	Max	Min	Responses	Average	Median	Stan Dev	Range	
Baled and Left in Field (\$/Bale)	\$20	\$7	10	\$11.00	\$10.00	\$3.71	\$14.71	\$7.29
Baled and Net Wrapped (\$/Bale)	\$17	\$7	11	\$11.40	\$10.00	\$3.26	\$14.66	\$8.14
Move Stack or Large Bale (\$/Bale)	\$12	\$5	4	\$6.80	\$5.00	\$3.03	\$9.83	\$3.77

Baling: Large Round Bales - 600-1000# Bale	Max	Min	Responses	Average	Median	Stan Dev	Range	
Baled and Left in Field (\$/Bale)	\$20	\$6	28	\$10.10	\$10.00	\$2.74	\$12.84	\$7.36
Baled and Hauled from Field (\$/Bale)	\$15	\$10	4	\$13.00	\$13.50	\$2.12	\$15.12	\$10.88
Baled and Net Wrapped (\$/Bale)	\$15	\$8	25	\$10.60	\$10.00	\$2.06	\$12.66	\$8.54
Baled, Net Wrapped and Hauled from Field (\$/Bale)	\$20	\$8	6	\$13.30	\$13.50	\$3.90	\$17.20	\$9.40
Move Stack or Large Bale (\$/Bale)	\$10	\$5	3	Statistics not presented due to low response rate.				
Bale and Wrap Wet Bale/Stack in Plastic Plastic Included (\$/Bale)	\$25	\$11	7	\$18.00	\$18.00	\$5.10	\$23.10	\$12.90

Baling: Large Square Bales	Max	Min	Responses	Average	Median	Stan Dev	Range	
Baled and Left in Field (\$/Stack)	\$15	\$9	6	\$12.60	\$13.00	\$2.19	\$14.79	\$10.41

Complete Hay Harvest	Max	Min	Responses	Average	Median	Stan Dev	Range	
Complete Hay Harvest - Mow, Rake, Bale, Haul and Store Hire (\$/Ton)	\$70	\$40	4	\$52.50	\$50.00	\$10.90	\$63.40	\$41.60
Complete Hay Harvest - Mow, Rake, Bale, Haul and Store Share (% of Crop)	75	50	16	58	60	7.96	65.96	50.04

Custom Farming

All machinery operations:

Tillage, planting, spraying, tending & harvesting	Max	Min	Responses	Average	Median	Stan Dev	Range	
Corn (\$/Acre)	\$350	\$70	14	\$137.50	\$127.50	\$64.56	\$202.06	\$72.94
Soybeans (\$/Acre)	\$300	\$60	14	\$122.00	\$107.50	\$63.34	\$185.34	\$58.66
Small Grains (\$/Acre)	\$300	\$52.50	10	\$118.00	\$105.00	\$66.55	\$184.55	\$51.45

Max = Maximum, Min = Minimum, St. Dev. = Standard deviation

Range = Average +/- 1 Standard Deviation,

¹ Standard deviation is a measure of the variability of the survey responses. One "standard deviation" both above and below the average (mean) includes approximately two-thirds of all survey responses.



Ohio Farm Custom Rates 2022

Operation

Manure Handling and Application	Max	Min	Responses	Average	Median	Stan Dev	Range	
Pump & Spread (Surface) (\$/Gallon) Tanker	\$0.012	\$0.007	2	Statistics not presented due to low response rate.				
Pump & Spread (Surface) (\$/Gallon) Dragline	\$0.010	\$0.003	14	\$0.0072	\$0.0075	\$0.0021	\$0.0093	\$0.0051
Pump, Spread & Incorporate (\$/Gallon) Dragline	\$0.012	\$0.004	9	\$0.0082	\$0.0080	\$0.0020	\$0.0103	\$0.0062
Pump, Inject/Sidedress (\$/Gallon) Dragline	\$0.010	\$0.008	4	\$0.0091	\$0.0093	\$0.0007	\$0.0099	\$0.0084
Standard Setup Charge (\$/Job)	\$600	\$0	3	Statistics not presented due to low response rate.				
Upcharge if Sand is Used for Bedding (\$/Gallon)	\$0.0020	\$0.0005	5	\$0.0011	\$0.0010	\$0.0006	\$0.0017	\$0.0005
Hauling Liquid Manure per Hour without Frack Tank (\$/Hour)	\$210	\$100	6	\$133	\$108	\$43	\$177	\$90
Agitator Charge (Ex: \$0.0004) (\$/Gallon)	\$0.0009	\$0.0004	2	Statistics not presented due to low response rate.				
Agitation Boat (\$/Hour)	\$350	\$275	2	Statistics not presented due to low response rate.				

Manure Application - Solid Manure

Manure Application - Solid Manure	Max	Min	Responses	Average	Median	Stan Dev	Range	
Spreading Manure at Field (\$/Ton)	\$12	\$2	7	\$7.50	\$8.00	\$2.71	\$10.21	\$4.79
Hauling & Spreading Manure within 2 Miles (\$/Hour)	\$210	\$45	5	\$111.00	\$100.00	\$59.53	\$170.53	\$51.47
Loading (Payloader or Other) Manure (\$/Hour)	\$100	\$50	4	\$75.00	\$75.00	\$19.04	\$94.04	\$55.96
Loading/Hauling & Spreading within 2 miles: (\$/Hour)	\$260	\$25	5	\$132.00	\$140.00	\$78.01	\$210.01	\$53.99

Drainage and Tile Installation

Ditching Machine (Wheel or Trencher)	Max	Min	Responses	Average	Median	Stan Dev	Range	
4" Plastic (\$/Foot)	\$1.00	\$0.275	6	\$0.60	\$0.50	\$0.27	\$0.87	\$0.33
6" Plastic (\$/Foot)	\$1.00	\$0.270	8	\$0.65	\$0.60	\$0.29	\$0.94	\$0.36
8" Plastic (\$/Foot)	\$1.00	\$0.270	7	\$0.66	\$0.60	\$0.29	\$0.96	\$0.37

Drainage Plow (Self-Propelled or Pull Behind)

Drainage Plow (Self-Propelled or Pull Behind)	Max	Min	Responses	Average	Median	Stan Dev	Range	
4" Plastic (\$/Foot)	\$0.70	\$0.12	29	\$0.32	\$0.30	\$0.14	\$0.46	\$0.17
6" Plastic (\$/Foot)	\$0.80	\$0.12	15	\$0.47	\$0.50	\$0.21	\$0.69	\$0.26
8" Plastic (\$/Foot)	\$1.00	\$0.15	9	\$0.51	\$0.40	\$0.29	\$0.81	\$0.22

Typical Depth of Tile Installation - Inches	42	24	25	33	32	4	37	28
Typical Lateral Spacing - Feet	60	20	40	34	30	9	43	25

Max = Maximum, Min = Minimum, St. Dev. = Standard deviation

Range = Average +/- 1 Standard Deviation,

¹ Standard deviation is a measure of the variability of the survey responses. One "standard deviation" both above and below the average (mean) includes approximately two-thirds of all survey responses.



Ohio Farm Custom Rates 2022

Miscellaneous	Max	Min	Responses	Average	Median	Stan Dev	Range	
Bush Hogging (\$/Acre)	\$25	\$9	18	\$17.00	\$15.50	\$4.74	\$21.74	\$12.26
Bush Hogging (\$/Hour)	\$130	\$25	29	\$73.60	\$65.00	\$30.74	\$104.34	\$42.86
Income Tax Preparation (\$/Hour)	\$545	\$150	4	\$311.30	\$275.00	\$169.20	\$480.50	\$142.10
Income Tax Preparation (\$/Return)	\$1,500	\$50	25	\$496.40	\$350.00	\$352.44	\$848.84	\$143.96
Annual Farm Account Summary and Tax Preparation (\$/Return)	\$2,500	\$250	10	\$698.10	\$525.00	\$623.59	1,321.69	\$74.51

	Max	Min	Responses	Average	Median	Stan Dev	Range	
Bulldozing per Foot of Blade / Hour	\$25	\$8	13	\$13.20	\$12.50	\$4.22	\$17.42	\$8.98
Track Hoe - Cleaning Ditches (\$/Hour)	\$275	\$85	17	\$137.90	\$125.00	\$45.02	\$182.92	\$92.88
Clearing Land (\$/Hour)	\$285	\$40	13	\$139.60	\$125.00	\$72.02	\$211.62	\$67.58

Remove Snow - Loader (\$/Hour)	\$250	\$30	13	\$93.10	\$80.00	\$58.06	\$151.16	\$35.04
Remove Snow - Blade (\$/Hour)	\$250	\$20	10	\$87.00	\$70.00	\$64.82	\$151.82	\$22.18

Grinding Feed (\$/Cwt)	\$2	\$0.15	6	\$0.98	\$1.00	\$0.58	\$1.56	\$0.40
Hauling Livestock (\$/Mile)	\$4	\$0.75	11	\$2.10	\$2.00	\$0.90	\$3.00	\$1.20
Scouting Crops (\$/Acre)	\$7	\$3	4	\$4.10	\$3.25	\$1.67	\$5.77	\$2.43
Soil Testing (\$/Sample)	\$30	\$5	11	\$15.00	\$14.00	\$8.06	\$23.06	\$6.94
Soil Testing (\$/Acre)	\$10	\$2	12	\$5.60	\$7.00	\$2.46	\$8.06	\$3.14
Grid Soil Sampling (\$/Acre)	\$23.72	\$0.90	13	\$8.20	\$7.50	\$4.94	\$13.14	\$3.26
In Reference to the Prior Question, Average Grid Size (Acres)	5	0.50	11	2.50	2.50	1.00	3.50	1.50
Zone Soil Sampling (\$/Acre)	\$8	\$3.50	9	\$6.10	\$7.00	\$1.43	\$7.53	\$4.67
In Reference to the Prior Question, Average Zone Size (Acres)	20	7	8	10.40	9.00	3.94	14.34	6.46
Power Washing (\$/Hour)	\$55	\$40	4	\$48.80	\$50.00	\$5.45	\$54.25	\$43.35

Farm Labor	Max	Min	Responses	Average	Median	Stan Dev	Range	
General Farm Labor (\$/Hour)	\$35	\$9.50	83	\$16.40	\$15.00	\$4.71	\$21.11	\$11.69
Machinery Operation (\$/Hour)	\$39	\$10	45	\$19.20	\$18.00	\$5.77	\$24.97	\$13.43
Semitruck Driving (Seasonal) (\$/Hour)	\$35	\$14	37	\$19.20	\$20.00	\$4.06	\$23.26	\$15.14
Milking Cows (\$/Hour)	\$14	\$12	4	\$13.20	\$13.40	\$0.85	\$14.05	\$12.35

Hours Worked/Week (Average)	60.00	20.00	21	44.00	48.00	9.64	53.64	34.36
-----------------------------	-------	-------	----	-------	-------	------	-------	-------

Machinery/Building Rental	Max	Min	Responses	Average	Median	Stan Dev	Range	
Tractor \$ per Horsepower / Hour	\$0.48	\$0.04	17	\$0.28	\$0.31	\$0.12	\$0.40	\$0.16
Combine (\$/Separator Hour)	\$325	\$150	4	\$231.30	\$225.00	\$62.29	\$293.59	\$169.01
In Reference to the Two Prior Options: Combine Header (Feet)	40	25	6	35.00	37.50	5.77	40.77	29.23
OR, in Reference to the Two Prior Options: Combine Header (Rows)	12	6	4	9.50	10.00	2.60	12.10	6.90
Grain Drill No-Till (\$/Acre)	\$19	\$8	9	\$11.10	\$10.00	\$3.51	\$14.61	\$7.59
In Reference to the Prior Question: Grain Drill Width (Feet)	15	10	6	13.30	15.00	2.36	15.66	10.94
Bobcat or Skidsteer Loader (\$/Day)	\$240	\$30	6	\$154.20	\$155.00	\$70.44	\$224.64	\$83.76
Dry Bulk Fertilizer Applicator (\$/Acre)	\$7	\$1.20	5	\$4.90	\$6.00	\$2.03	\$6.93	\$2.87
Anhydrous Ammonia Applicator Bar (\$/Acre)	\$15	\$4	4	\$9.80	\$10.00	\$5.26	\$15.06	\$4.54

Machinery Storage (\$/Square Foot/Year)	\$3	\$0.30	11	\$1.05	\$0.93	\$0.77	\$1.82	\$0.28
---	-----	--------	----	--------	--------	--------	--------	--------

Hay Storage (\$/Ton)	\$10	\$5	4	\$8.50	\$9.50	\$2.06	\$10.56	\$6.44
----------------------	------	-----	---	--------	--------	--------	---------	--------

Max = Maximum, Min = Minimum, St. Dev. = Standard deviation

Range = Average +/- 1 Standard Deviation,

¹ Standard deviation is a measure of the variability of the survey responses. One “standard deviation” both above and below the average (mean) includes approximately two-thirds of all survey responses.



Estimating Machinery Rental Rate from Custom Rates

Below are the calculations for you to estimate machinery rental rate from the custom rate tables in the preceding pages of this fact sheet. The examples shown will be for a field cultivator.

1. Multiply the custom charge (includes labor, fuel, tractor) by the percent* of the custom charge for other associated costs such as interest, insurance, depreciation, and repairs.

$$\text{custom charge} \times \text{percent of custom charge} = \text{machinery rental rate}$$

** For the percent of custom charge, use:
65% for tillage or 75% for planting and harvesting*

Example: From the 2022 custom rate tables above, the rate for a field cultivator (with tractor) is \$17.40/acre. The percent of custom charge for other associated costs is 65% for tillage.

$$\text{custom charge} \times \text{percent of custom charge} = \text{machinery rental rate}$$

$$\$17.40/\text{acre} \times 65\% = \$11.31/\text{acre}$$

2. Calculate the tractor rental value if the tractor is not included in the estimate from a custom operator. Multiply the amount of horse power(HP) by the rental rate per horse-power hour (HP-hour). Divide the product by the acres covered per hour.

$$(\text{HP} \times \text{per HP-hour rental rate}) \div \text{acres/hour} = \text{tractor rental rate}$$

Example: A 310 HP tractor with a \$0.28 per HP-hour rental rate taken from the above 2020 custom rate tables. The tractor (w/field cultivator) will cover 33 acres per hour.

$$\begin{aligned} (\text{HP} \times \text{per HP-hour rental rate}) \div \text{acres/hour} &= \text{tractor rental rate} \\ (310 \text{ HP} \times \$0.28) \div 33 \text{ acres/hour} &= \$2.63/\text{acre} \end{aligned}$$

3. From the machinery rental rate, subtract the tractor rental rate (#1 minus #2):

$$\text{machinery rental rate} - \text{tractor rental rate} = \text{implement rental value}$$

$$\$11.31/\text{acre} - \$2.63/\text{acre} = \$8.68/\text{acre}$$