

Ohio Farm Custom Rates 2018
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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 a 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 352 farmers, custom operators, farm managers, and landowners conducted in 2018. These rates, except where noted, include the implement and tractor if required, all variable machinery costs such as fuel, oil, lube, twine, etc., and the 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 relationships or are strengthening a relationship to help secure the custom farmed land in a cash 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.

The measures shown in the following tables are the summary of the survey respondents. The measures are the average (or mean), range, median, minimum, and maximum. Average custom rates reported in this publication are a simple average of all the survey responses. Range identified in the tables consists of two numbers. The first is the average plus the standard deviation, which is the variability of the data from the average measure. The second number of the range is the average minus the standard deviation. The median represents the middle value in the survey responses. The minimum and maximum reported in the table are the minimum and maximum amounts reported from the survey data for a given custom operation.

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.

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. 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 data from this survey are intended to show a representative farming industry cost for specified machines and operations in Ohio. 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.

2018 Survey Responses

Below are tables summarizing the results of the 2018 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 2017 according the U.S. Energy Information Administration (EIA) was \$2.65 per gallon. The approximate price of diesel fuel at the time of this survey was \$2.75 - \$3.25 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 2018

Soil Preparation	Avg	Std	Median	Max	Min	Rang	ge
Stalk Chopper Acre	\$11.00	\$3.95	\$12.00	\$20.00	\$5.00	\$14.95	\$7.05
Moldboard Plow /Acre	\$21.80	\$8.51	\$20.00	\$50.00	\$10.00	\$30.33	\$13.30
Chisel Plow / Acre	\$17.70	\$5.64	\$18.00	\$30.00	\$5.00	\$23.33	\$12.05
Disk Chisel / Acre	\$18.00	\$5.25	\$18.00	\$30.00	\$7.00	\$23.27	\$12.77
Disk-Tandem / Acre	\$14.00	\$4.96	\$14.00	\$30.00	\$5.00	\$18.93	\$9.02
Disk-Offset / Acre	\$17.40	\$8.84	\$15.00	\$40.00	\$5.00	\$26.24	\$8.56
Soil Finishing / Acre	\$15.50	\$5.15	\$15.00	\$30.00	\$8.00	\$20.63	\$10.33
Field Cultivator / Acre	\$14.00	\$3.50	\$14.00	\$24.00	\$7.50	\$17.46	\$10.46
Land Leveling / Acre	\$16.40	\$5.68	\$15.00	\$25.00	\$9.00	\$22.13	\$10.76
Land Leveling / Hour	\$86.40	\$18.42	\$85.00	\$125.00	\$70.00	\$104.85	\$68.01
Subsoiling / Acre	\$20.50	\$3.68	\$20.00	\$28.00	\$15.00	\$24.16	\$16.81
V-Ripping / Acre	\$24.40	\$5.66	\$25.00	\$35.00	\$15.00	\$30.03	\$18.70
Strip Tillage / Acre	\$23.00	\$6.98	\$20.00	\$39.00	\$15.00	\$29.95	\$15.98
Strip w/ Fertilizer Injection / Acre	\$27.80	\$7.25	\$30.00	\$40.00	\$15.00	\$35.04	\$20.54
Fertilizer Application - Ground							
Dry Bulk / Acre	\$6.30	\$1.61	\$6.00	\$12.50	\$3.00	\$7.90	\$4.68
Liquid Knife/ Acre	\$9.50	\$2.92	\$10.00	\$15.00	\$4.00	\$12.44	\$6.60
Liquid Spray / Acre	\$7.20	\$1.74	\$7.00	\$13.00	\$4.00	\$8.95	\$5.48
Annhydrous / Acre	\$13.70	\$5.74	\$13.78	\$36.00	\$5.00	\$19.42	\$7.94
Late Season Nitrogen Application - Coulters /Acre	\$13.20	\$6.02	\$13.00	\$25.00	\$7.00	\$19.24	\$7.21
Late Season Nitrogen Application - Drops /Acre	\$11.30	\$2.43	\$12.25	\$15.00	\$7.50	\$13.77	\$8.92
Lime / Acre	\$7.90	\$3.31	\$7.00	\$20.00	\$4.00	\$11.18	\$4.56
Lime / Ton	\$7.60	\$3.26	\$7.00	\$16.00	\$3.00	\$10.81	\$4.29
Variable Rate Fertilizer / Acre	\$7.90	\$2.67	\$7.00	\$20.00	\$3.50	\$10.55	\$5.22
Number of Products Applied	1.70	0.49	2.00	2.50	1.00	2.20	\$1.22
Chemical Control of Weeds or Insects							
Spraying - self propelled / Acre	\$7.60	\$1.88	\$7.00	\$15.00	\$4.00	\$9.47	\$5.72
Spraying - pull type / Acre	\$7.50	\$2.96	\$7.00	\$17.00	\$3.50	\$10.43	\$4.51
Highboy spraying / Acre	\$8.00	\$3.54	\$6.50	\$20.00	\$5.00	\$11.53	\$4.44
Mechanical Weed Control							
Rotary Hoeing / Acre	\$9.30	\$3.13	\$10.00	\$13.00	\$4.00	\$12.43	\$6.17
Conventional Cultivation / Acre	\$13.90	\$5.13	\$12.00	\$25.00	\$8.00	\$19.02	\$8.75
Assist Assultantian							
Aerial Application	040.00	ው	#44.00	<u></u>	<u></u>	#40.00	ው ር ጋር
Chemicals / Acre	\$12.30	\$3.95	\$11.00	\$30.00	\$7.00	\$16.26	\$8.35
Seed / Acre	\$13.80	\$4.18	\$12.00	\$30.00	\$10.00	\$17.93	\$9.57
Fertilizer / Acre	\$13.30	\$3.96	\$12.50	\$20.00	\$7.00	\$17.27	\$9.35

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 2018

Planting Operations							
Conventional Till	Avg	Std	Median	Max	Min	Ranç	
Plant Corn 30" Rows / Acre	\$19.00	\$5.23	\$18.00	\$35.00	\$10.00	\$24.19	\$13.72
Plant Corn w/ Starter Fertilizer 30" Rows / Acre	\$19.30	\$5.03	\$19.10	\$35.00	\$6.00	\$24.31	\$14.25
Variable rate corn planting / Acre	\$21.50	\$5.22	\$20.00	\$35.00	\$15.00	\$26.68	\$16.23
Plant Soybeans 15" or 30" Rows / Acre	\$18.50	\$3.45	\$18.50	\$30.00	\$10.00	\$21.92	\$15.02
Variable rate soybean planting / Acre	\$20.60	\$3.39	\$20.00	\$26.00	\$16.00	\$23.97	\$17.19
Drill Soybeans / Acre	\$17.00	\$3.68	\$17.00	\$25.00	\$10.00	\$20.65	\$13.30
Drill Small Grains / Acre	\$15.90	\$4.28	\$16.75	\$23.00	\$5.00	\$20.20	\$11.64
No-Till							
Plant Corn 30" Rows / Acre	\$20.20	\$5.04	\$19.00	\$32.00	\$14.00	\$25.23	\$15.15
Plant Corn w/ Starter Fertilizer 30" Rows / Acre	\$20.50	\$4.94	\$20.00	\$35.00	\$6.00	\$25.39	\$15.50
Variable rate corn planting / Acre	\$21.50	\$4.49	\$22.00	\$32.00	\$14.00	\$26.01	\$17.04
Plant Soybeans 15" or 30" Rows / Acre	\$18.70	\$3.60	\$19.75	\$26.00	\$10.00	\$22.31	\$15.12
Variable rate soybean planting / Acre	\$20.70	\$4.34	\$22.00	\$27.00	\$10.00	\$25.04	\$16.36
Drill Soybeans / Acre	\$17.00	\$4.28	\$16.70	\$34.00	\$9.00	\$21.28	\$12.71
Drill Small Grains / Acre	\$16.60	\$4.95	\$15.00	\$36.00	\$8.50	\$21.49	\$11.60
Grass/Legume/Pasture Seeding							
Broadcast / Acre	\$10.60	\$4.75	\$10.00	\$25.00	\$5.00	\$15.30	\$5.80
Grain drill / Acre	\$15.80	\$4.78	\$15.00	\$25.00	\$7.50	\$20.61	\$11.06
Grain Harvest							
Harvest Corn /							
(combine, grain cart, haul local to farm) / Acre Harvest Soybeans /	\$32.80	\$7.15	\$31.00	\$55.00	\$18.00	\$39.97	\$25.67
(combine, grain cart, haul local to farm) / Acre Harvest Wheat /	\$30.80	\$6.05	\$30.00	\$50.00	\$17.00	\$36.87	\$24.76
(combine, grain cart, haul local to farm) / Acre	\$29.90	\$6.78	\$30.00	\$55.00	\$17.00	\$36.66	\$23.09
Added Charge GPS Mapping	\$2.10	\$1.73	\$1.50	\$5.00	\$0.00	\$3.85	\$0.40
Combine Corn / Corn	\$29.90	\$5.69	\$30.00	\$50.00	\$15.00	\$35.57	\$24.18
Combine Soybeans / Acre	\$28.80	\$5.77	\$29.00	\$50.00	\$14.00	\$34.59	\$23.05
Combine Small Grains / Acre	\$28.40	\$5.85	\$29.00	\$50.00	\$14.00	\$34.24	\$22.54
Pick Ear Corn / Acre	\$25.00	\$11.11	\$25.00	\$41.00	\$7.00	\$36.11	\$13.89
Grain Cart / Acre	\$4.70	\$2.42	\$5.00	\$12.00	\$2.00	\$7.13	\$2.30

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Ohio Farm Custom Rates 2018

Grain Storage - On Farm	Avg	Std	Median	Max	Min	Rang	ge
Storage / Month / Bushel	\$0.046	\$0.021	\$0.05	\$0.12	\$0.01	\$0.067	\$0.02
Storage / Year / Bushel	\$0.18	\$0.08	\$0.17	\$0.45	\$0.10	\$0.26	\$0.11
Grain Drying							
Per Point of Moisture Removed / Bushel	\$0.041	\$0.027	\$0.03	\$0.12	\$0.02	\$0.068	\$0.014
Grain Hauling							
Farm to Market / Bushel	\$0.172	\$0.092	\$0.150	\$0.650	\$0.030	\$0.264	\$0.079
Average Miles - Farm to Market	29.0	31.1	20.0	200.0	4.0	60.0	0.0
Field to Farm / Bushel	\$0.100	\$0.055	\$0.100	\$0.250	\$0.020	\$0.155	\$0.044
Average Miles - Field to Farm	12.5	10.0	10.0	50.0	3.0	22.4	2.5
Custom Farming (All machinery operations for							
tillage, planting, spraying, tending & harvesting)							
Corn / Acre	\$130	\$37.49	\$130.00	\$200.00	\$75.00	\$167.68	\$92.70
Soybeans /Acre	\$110	\$33.16	\$110.00	\$200.00	\$50.00	\$143.62	\$77.29
Small Grains / Acre	\$100	\$37.86	\$100.00	\$200.00	\$50.00	\$137.72	\$62.00
Hay / Straw Harvest							
Mowing / Acre	\$14.00	\$5.55	\$12.50	\$30.00	\$8.00	\$19.55	\$8.45
Mowing/Conditioning / Acre	\$14.80	\$4.42	\$14.00	\$27.00	\$7.00	\$19.20	\$10.36
Raking / Acre	\$8.30	\$4.15	\$7.00	\$20.00	\$2.00	\$12.42	\$4.13
Tedding / Acre	\$7.90	\$3.78	\$7.00	\$20.00	\$4.50	\$11.70	\$4.13
Baling: Small Square Bales							
Baled / Dropped in Field /Bale	\$0.75	\$0.41	\$0.75	\$2.50	\$0.25	\$1.17	\$0.35
Baled and Loaded on Wagon / Bale	\$0.95	\$0.47	\$1.00	\$3.00	\$0.35	\$1.43	\$0.48
Baled, Loaded, Hauled and Stored / Bale	\$2.00	\$1.19	\$1.88	\$5.00	\$1.00	\$3.18	\$0.79
Baling: Large Round Bales ~ 1500#							
Baled and Dropped in Field / Bale	\$8.70	\$2.51	\$7.75	\$12.50	\$6.00	\$11.19	\$6.18
Baled, Net Wrapped and Left in Field / Bale Baled and Wrapped Wet in Plastic	\$12.10	\$6.73	\$10.00	\$30.00	\$6.00	\$18.86	\$5.39
(Plastic Included) / Bale	\$14.30	\$1.84	\$13.63	\$17.00	\$13.00	\$16.15	\$12.47
Baling: Large Round Bales ~ 600-1000#							
Baled and Dropped in Field / Bale	\$7.60	\$2.15	\$7.50	\$10.00	\$5.00	\$9.74	\$5.43
Baled, Net Wrapped and Left in Field / Bale	\$11.80	\$6.34	\$10.00	\$30.00	\$6.00	\$18.17	\$5.48
Baled and Wrapped Wet in Plastic	******	*****	*******	******	40.00	*	*****
(Plastic Included) / Bale	\$14.10	\$5.36	\$12.25	\$22.00	\$10.00	\$19.48	\$8.77
Baling: Large Square Bales							
Baled and Dropped in Field / Bale	\$10.80	\$1.89	\$10.00	\$14.00	\$9.00	\$12.64	\$8.86
Complete Hay Harvest - Shares							
% of Crop to Custom Provider	53	7.8	50.0	70.0	33.0	60.7	45.1

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 2018

Manure Application	Avg	Std	Median	Max	Min	Ran	ge
Spread Manure / Ton	\$6.39	\$1.89	\$5.00	\$9.00	\$5.00	\$8.29	\$4.50
Hauling Manure / Ton / Up to 2 miles	\$4.95	\$1.94	\$5.00	\$8.00	\$2.75	\$6.89	\$3.01
Cost per additional mile	\$0.75	\$0.35	\$0.75	\$1.00	\$0.50	\$1.10	\$0.40
Hauling Manure / Load / Up to 2 miles	\$30.00	\$18.03	\$25.00	\$50.00	\$15.00	\$48.03	\$11.97
Hauling Liquid Manue / Hr / Without Fraktank	\$111.22	\$39.70	\$96.00	\$180.00	\$75.00	\$150.92	\$71.52
Hauling Liquid Manue / Hr / With Fraktank	\$134.00	\$34.46	\$122.50	\$200.00	\$100.00	\$168.46	\$99.54
Loading Solid Manure / Hour	\$49.38	\$24.99	\$47.50	\$80.00	\$20.00	\$74.37	\$24.38
Loading & Spreading Solid Manure / Hour	\$66.60	\$22.86	\$70.00	\$95.00	\$38.00	\$89.46	\$43.74
Dragline							
Setup Charge	\$360.00	\$151.66	\$400.00	\$500.00	\$200.00	\$511.66	\$208.34
Pump & Spread / 1000 gallons	\$7.58	\$0.85	\$7.25	\$9.00	\$6.50	\$8.43	\$6.73
Hired Labor							
General Farm Labor	\$12.95	\$3.09	\$12.00	\$20.00	\$5.00	\$16.02	\$9.85
Machine Operation / Hour	\$14.95	\$4.23	\$15.00	\$25.00	\$8.00	\$19.17	\$10.71
Milking Cows / Hour	\$12.00	\$2.20	\$11.50	\$15.00	\$9.00	\$14.20	\$9.80
General Crop Manager / Hour	\$18.20	\$6.57	\$20.00	\$30.00	\$10.00	\$24.79	\$11.65
Drainage and Tile Installation							
Ditching Machine - without materials	.		•				
4" Plastic / Foot	\$0.70	\$0.28	\$0.72	\$1.00	\$0.35	\$0.98	\$0.42
B 1 B1 21 4 4 1 1							
Drain Plow - without materials	# 0.04	A 0.00	00.04	# 0.40	00.45	# 0.04	00.40
4" Plastic / Foot	\$0.24	\$0.08	\$0.24	\$0.46	\$0.15	\$0.31	\$0.16
Ditching Machine - with materials							
4" Plastic / Foot	\$1.04	\$0.10	\$1.00	\$1.25	\$1.00	\$1.14	\$0.94
4 Plastic / Pool	φ1.0 4	Ф 0.10	φ1.00	φ1.23	φ1.00	Ф1.14	φ0.94
Drain Plow - with materials							
4" Plastic / Foot	\$0.55	\$0.13	\$0.53	\$1.00	\$0.45	\$0.68	\$0.42
- Fradio / Foot	ψ0.55	ψ0.13	ψυ.υυ	ψ1.00	ψυ.τυ	ψυ.υυ	ψυ. τ2
Typical Depth Tile Installation / Inches	31.3	5.4	30.0	48.0	22.0	36.7	25.9
Typical Lateral Spacing Tile Installation / Feet	32.5	6.1	30.0	45.0	25.0	38.6	26.4
Typical Lateral opacing the metallation / Tool	02.0	0.1	55.0	10.0	20.0	00.0	20.7

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Ohio Farm Custom Rates 2018

Miscellaneous	Avg	Std	Median	Max	Min	Range	
Bush Hogging / Acre	\$19.80	\$11.35	\$15.00	\$50.00	\$6.00	\$31.11	\$8.41
Bush Hogging / Hour	\$54.40	\$26.79	\$55.00	\$100.00	\$16.00	\$81.23	\$27.65
Income Tax Preparation / Hour	\$130.50	\$56.59	\$122.50	\$250.00	\$75.00	\$187.09	\$73.91
Income Tax Preparation / Return	\$493.10	\$262.58	\$450.00	\$1,190.00	\$125.00	\$755.69	\$230.52
Farm Account Summary & Tax Prep / Hour	\$231.00	\$158.29	\$250.00	\$450.00	\$75.00	\$389.29	\$72.71
Farm Account Summary & Tax Prep / Summary	\$842.50	\$313.28	\$837.50	\$1,195.00	\$500.00	\$1,155.78	\$529.22
Track Hoe / Hour	\$122.50	\$32.69	\$120.00	\$200.00	\$50.00	\$155.19	\$89.81
Bulldozing per Foot of Blade / Hour	\$9.70	\$2.43	\$9.44	\$15.00	\$5.00	\$12.10	\$7.25
Clearing Land / Hour	\$142.70	\$77.70	\$125.00	\$300.00	\$50.00	\$220.42	\$65.03
	*	******	*	*	******	*	*******
Snow Removal : Loader / Hour	\$68.10	\$58.06	\$57.50	\$180.00	\$15.00	\$126.19	\$10.06
Snow Removal : Blade / Hour	\$51.80	\$24.32	\$60.00	\$80.00	\$15.00	\$76.14	\$27.50
Snow Removal : Blade + Salt / Hour	\$59.20	\$34.65	\$75.00	\$100.00	\$20.00	\$93.85	\$24.55
Hauling Livestock / Mile	\$2.85	\$1.63	\$2.25	\$6.00	\$1.50	\$4.47	\$1.20
Scouting Crops / Acre	\$5.60	\$2.64	\$6.00	\$10.00	\$2.00	\$8.25	\$2.97
Soil testing / Sample	\$14.30	\$7.32	\$12.00	\$35.00	\$4.50	\$21.65	\$7.01
Soil testing / Acre	\$6.40	\$3.66	\$5.63	\$20.00	\$2.00	\$10.03	\$2.71
Power Washing / Hour	\$32.70	\$22.60	\$25.00	\$75.00	\$12.00	\$55.29	\$10.09
Machinery Rental							
Tractor / \$ per Horsepower / Hour	\$0.31	\$0.24	\$0.20	\$1.00	\$0.07	\$0.55	\$0.06
Corn Planter: Conventional / Acre	\$17.30	\$6.75	\$15.00	\$30.00	\$10.00	\$24.04	\$10.54
Average Number of Rows	16.8	8.6	16.0	30.0	6.0	25.4	8.2
Corn Planter: No-Till / Acre	\$16.60	\$10.14	\$17.50	\$35.00	\$5.00	\$27.77	\$7.48
Average Number of Rows	14.3	8.9	14.0	30.0	6.0	23.2	5.4
Combine / Seperator Hour	\$137.50	\$25.00	\$150.00	\$150.00	\$100.00	\$162.50	\$112.50
Combine / Acre	\$27.60	\$2.96	\$30.00	\$30.00	\$23.00	\$30.52	\$24.59
Average Grain Table Width in Feet	31.4	6.9	35.0	40.0	20.0	38.3	24.5
Average Number of Corn Header Rows	8.0	1.9	8.0	12.0	6.0	9.9	6.1
Grain Drill: Conventional / Acre	\$15.10	\$4.14	\$16.00	\$20.00	\$10.00	\$19.28	\$11.00
Average Width in Feet	22.5	10.4	17.5	40.0	15.0	32.9	12.1
Grain Drill: No-till / Acre	\$14.30	\$4.88	\$15.00	\$25.00	\$6.00	\$19.22	\$9.45
Average Width in Feet	16.8	7.3	15.0	40.0	10.0	24.0	9.5
Bobcat or Skidsteer Loader / Day	\$193.10	\$135.14	\$142.50	\$500.00	\$90.00	\$328.27	\$57.98

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.

 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.

custom charge × percent of custom charge = machinery rental rate

* For the percent of custom charge, use: 70% for tillage or 80% for planting and harvesting

Example: From the 2018 custom rate tables above, the rate for a field cultivator (with tractor) is \$14/acre. The percent of custom charge for other associated costs is 70% for tillage.

custom charge × percent of custom charge = machinery rental rate

$$14/acre \times 70\% = 9.80/acre$$

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.

(HP × per HP-hour rental rate) ÷ acres/hour = tractor rental rate

Example: A 310 HP tractor with a \$0.31 per HP-hour rental rate taken from the above 2018 custom rate tables. The tractor (w/field cultivator) will cover 33 acres per hour.

```
(HP \times per HP-hour rental rate) \div acres/hour = tractor rental rate (310 HP \times $0.31) \div 33 acres/hour = $2.91/acre
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3. From the machinery rental rate, subtract the tractor rental rate (#1 minus #2):

machinery rental rate - tractor rental rate = implement rental value

$$9.80/acre - 2.91/acre = 6.89/acre$$