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Pennsylvania's 2016 Machinery Custom Rates

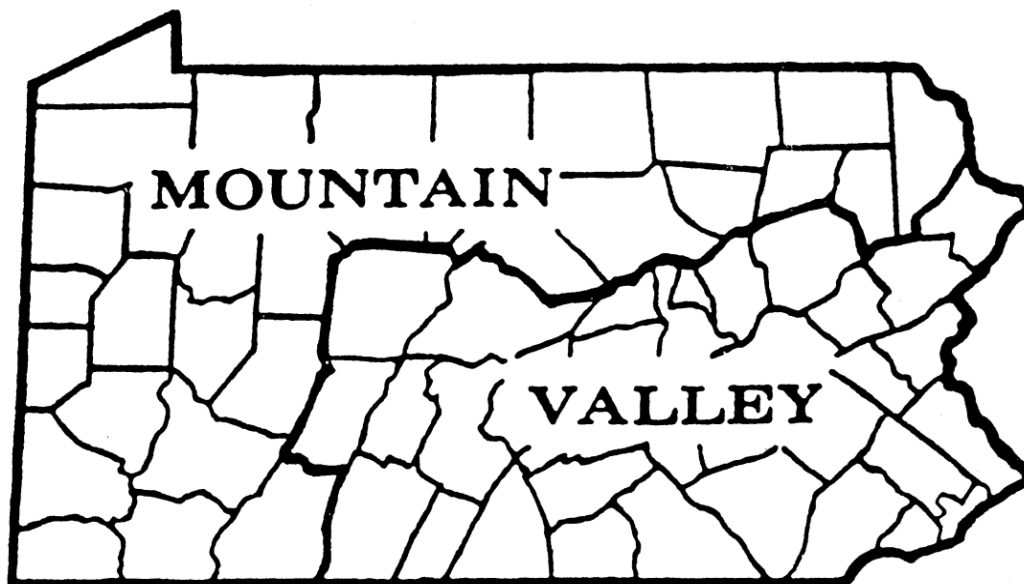
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The custom rates shown are averages from voluntary reports by custom operators and farmers throughout Pennsylvania. Most of the rates are stated per acre, cwt., ton, bale, or bushel rather than per hour to reduce the variation due to machinery size. The rates shown include the cost of hiring machine with fuel and operator and exclude the cost of seed, fertilizer, and other materials used unless otherwise specified. Individual rates vary due to differences in working conditions, services performed, or even the operator's eagerness to do custom work. Therefore, the average rates shown should not be considered absolute indications of fair charges.

Average rates are shown separately for two regions of the state, labeled "**Mountain**" and "**Valley**". The differences in rates between regions reflect differences in

terrain, soils and alternative opportunities for the labor and equipment used. Figures labeled "**State**" represent the straight average of all reports used regardless of geographic location.

Of the 82 rates reported with year-to-year comparisons, 47 increased, 31 decreased and four are virtually unchanged from last year. Overall, custom rates were up 1 percent compared to the 2014 estimates. Because of the potential variation in size and overall productivity of equipment, a range of reported rates for each job has been included. The range represents the middle 80 percent of all reported rates for each job, thus the lowest 10 percent and the highest 10 percent of all reported values were not published.



Custom Rates: Selected Farming Operations, Pennsylvania, 2014-2016

Job	Basis of Charge	2016 (Dollars)				2014
		Mountain Section	Valley Section	Range ¹	State	State (Dollars)
Harvesting:						
Corn Picking	Acre	31.10	27.20	20.00-35.00	28.10	28.90
Corn Combining.....	Acre	35.00	33.10	30.00-37.00	33.50	32.70
Corn Drying (23 Percent).....	Bu.	0.37	0.37	0.10-0.63	0.37	0.38
Combining Small Grains.....	Acre	34.20	32.80	30.00-37.00	33.10	32.20
Combining Soybeans	Acre	35.20	33.30	30.00-38.00	33.70	33.00
Hay Making:						
Mowing.....	Acre	16.90	15.30	10.50-20.00	15.70	15.70
Mowing & Conditioning.....	Acre	18.00	16.00	12.00-20.00	16.40	16.20
Raking.....	Acre	11.00	9.05	5.00-14.00	9.45	9.50
Small Square Baling	Bale	0.99	1.00	0.50-1.50	1.00	0.88
Cut, Rake, Bale & Store	Bale	2.15	2.45	1.30-3.50	2.35	2.20
Large Round Baling.....	Bale	8.25	7.50	6.00-10.00	7.75	7.70
Size	Lbs.	947	869	600-1,250	895	863
Large Square Baling.....	Bale	8.90	8.40	7.00-10.12	8.45	8.40
Size.....	Lbs.	781	841	650-1,100	835	834
Wrapping Bales	Bale	7.20	7.35	5.00-9.10	7.30	6.70
Silage Making:						
Pull-Type Chopper & Tractor.....	Hour	82.50	111.00	50.00-180.00	100.00	100.00
Self-Propelled Chopper	Hour	288.00	270.00	140.00-375.00	272.00	257.00
Less than 365 HP	Hour	-	-	85.00-300.00	198.00	218.00
Greater than 365 HP	Hour	-	-	210.00-375.00	296.00	292.00
Blower	Hour	26.10	31.90	9.00-60.00	31.10	19.90
1 Man, 2 Wagons, 1 Tractor.....	Hour	62.30	69.00	40.00-100.00	67.90	64.60
2 Men, 2 Wagons, 2 Tractors	Hour	117.00	126.00	70.00-190.00	125.00	117.00
1 Man, 1 Truck.....	Hour	69.20	68.50	50.00-88.00	68.70	69.80
Field Chop, Haul & Fill Silo.....	Ton	10.40	7.75	4.00-15.00	8.10	9.60
Bagging Silage.....	Foot	5.25	5.00	2.00-10.00	5.05	5.45
Less than 9.0 ft	Foot	-	-	2.00-5.00	3.90	4.95
Greater than 9.0 ft	Foot	-	-	2.50-11.00	6.10	6.05
Plowing & Cultivating:						
Plowing, Moldboard Plow:						
Stubble.....	Acre	22.90	19.00	14.00-30.00	20.80	20.30
Sod.....	Acre	25.60	20.70	12.00-35.00	22.90	22.60
Plowing, Deep (10 Inches or More).....	Acre	24.70	24.20	12.00-40.00	24.40	23.90
Plowing, Chisel	Acre	18.60	18.10	12.00-24.00	18.20	18.00
Plowing, Disk	Acre	22.00	16.90	11.00-26.00	18.10	18.20
Disking, Tandem	Acre	20.60	17.20	10.00-26.00	18.10	17.50
With Harrow or Cultipacker.....	Acre	23.00	17.70	10.00-26.00	19.10	18.90
Harrowing	Acre	16.60	14.40	8.00-21.00	15.10	14.50
Cultivating	Acre	18.20	14.50	8.00-21.00	15.30	15.80
Planting & Drilling						
Planting Corn, With Fertilizer:						
Conventional-Till.....	Acre	22.50	21.20	16.00-26.00	21.50	20.60
Minimum-Till	Acre	23.00	21.50	16.00-25.00	21.80	21.00
No-Till.....	Acre	24.90	21.70	17.00-27.00	22.30	21.70
Planting Corn, Without Fertilizer:						
Conventional-Till.....	Acre	21.00	19.80	15.00-25.00	20.00	19.10
Minimum-Till	Acre	21.10	20.00	15.00-25.00	20.10	19.80
No-Till.....	Acre	23.10	20.40	15.00-25.00	20.60	20.20
Planting Soybeans, Without Fertilizer:						
Conventional-Till.....	Acre	21.10	19.20	12.00-25.00	19.60	18.90
Minimum-Till	Acre	21.30	19.90	14.00-25.00	20.10	19.50
No-Till.....	Acre	23.70	20.10	15.00-25.00	20.70	19.80
Drilling.....	Acre	21.70	19.70	13.00-25.00	20.00	18.90

See footnote at end of table.

Custom Rates: Selected Farming Operations, Pennsylvania, 2014-2016, Continued

Job	Basis of Charge	2016 (Dollars)				2014 ²
		Mountain Section	Valley Section	Range ¹	State	State (Dollars)
Planting & Drilling (Continued):						
Drilling Small Grain, Without Fertilizer						
Conventional-Till	Acre	19.10	18.40	11.00-24.00	18.60	17.00
Minimum-Till.....	Acre	20.20	18.50	12.00-25.00	18.80	18.00
No-Till.....	Acre	21.30	18.60	12.00-25.00	19.00	18.20
Seeding Alfalfa, Clover, Etc.....	Acre	20.60	18.70	10.00-25.00	19.00	18.30
Broadcast Seeding (<i>On Grain Fields</i>).....	Acre	14.50	11.50	5.00-20.00	12.30	12.50
Cleaning Grain Seed:						
With Treatment	Bu.	NA	1.35	0.30-1.60	1.25	1.45
Without Treatment	Bu.	0.64	0.89	0.20-1.25	0.83	0.95
Spraying:						
Ground Equipment:						
Spraying for Weed Control Excl. Material	Acre	11.90	11.00	8.00-14.00	11.20	11.50
Spraying for Corn Borer	Acre	12.20	10.70	8.50-13.00	10.90	11.50
Spraying for Spittle Bug or Alfalfa Weevil	Acre	10.80	10.40	8.00-12.80	10.50	11.20
Miscellaneous:						
Grain Hauling:						
Local	Bu.	0.23	0.22	0.14-0.30	0.22	0.22
Long Distance	Bu.	0.46	0.36	0.22-0.50	0.38	0.39
Local	Mile	2.10	2.00	0.40-3.00	2.05	2.10
Long Distance	Mile	2.65	2.05	0.75-3.50	2.25	2.40
Grain Storage.....	Bu./Month	0.05	0.05	0.03-0.10	0.05	0.07
Stalk Shredding, P.T.O.	Acre	19.30	14.10	9.00-20.00	15.00	15.10
Bushhogging.....	Acre	26.00	20.60	10.00-35.00	22.40	24.90
Spreading Bulk Fertilizer:						
Dry	Acre	10.40	10.10	5.00-15.00	10.20	10.60
Liquid	Acre	12.30	10.60	8.00-14.00	10.90	11.00
Side Dressing.....	Acre	11.70	11.10	8.00-15.00	11.20	10.90
Lime	Acre	14.50	13.10	6.00-20.00	13.70	13.80
Grinding Feed:						
Corn, Oats or Barley	Cwt.	1.20	1.05	0.45-1.90	1.10	1.10
Corn & Cobs	Cwt.	1.35	1.15	0.60-1.80	1.20	1.10
Cobs.....	Cwt.	1.15	1.20	0.55-1.80	1.20	1.05
Additional Charge for Mixing.....	Cwt.	0.63	0.88	0.20-1.50	0.82	0.72
Machine Tiling (<i>No Tile</i>).....	Foot	0.82	1.40	0.45-2.00	1.10	1.35
Back Hoe	Hour	62.60	64.20	35.00-85.00	63.60	67.60
Sawing Wood, Chain Saw	Hour	26.10	32.20	15.00-50.00	29.40	32.60
Post Hole Digging	Hole	5.85	3.90	1.00-10.00	4.70	5.40
Manure Loading, <i>Solid</i>	Hour	49.30	48.70	20.00-80.00	48.90	49.30
Manure Spreading, <i>Solid</i>	Hour	48.70	70.40	25.00-110.00	66.30	63.70
Manure Pumping	Hour	45.00	44.60	15.00-85.00	44.70	37.00
Manure Spreading, <i>Liquid</i>	Hour	76.90	96.90	70.00-118.00	94.50	88.80
Bulldozing	Hour	76.50	90.50	50.00-120.00	85.80	89.30
Average Size.....	HP	95.20	122.00	65.00-170.00	112.00	115.00
Tractor Rental Rates:						
Less than 80 HP	Hour	31.20	31.20	15.00-60.00	32.90	32.00
80 to 120 HP	Hour	54.80	38.60	20.00-75.00	42.30	38.10
120 to 160 HP	Hour	73.90	45.50	25.00-75.00	49.60	45.40
Greater than 160 HP.....	Hour	79.60	58.60	30.00-100.00	62.10	58.40

¹ The range represents the middle 80 percent of all reported rates for each job, thus the lowest 10 percent and the highest 10 percent of all reported values were not published.

² Previous estimates are from 2014. No survey or estimates were done in 2015.