## MICHIGAN STATE <br> U N I V E R S I T Y

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Built on the Farm Machinery Economic Cost Estimation Spreadsheet (MACHDATA.XLSM) from:

## University of Minnesota

EXTENSION
Driven to Discover"

## Custom Rate Parameters:

## Skilled labor rate $\$ / \mathrm{hr}=\$ 29.99$

Unskilled labor rate $\$ / \mathrm{hr}=\$ 20.24$
Interest Rate $=4.375 \%$

Fuel price $=\$ 5.38$
Lubrication cost $=10 \%$ of fuel

## Sources:

USDA Farm Labor Report
https://usda.library.cornell.edu/concern/publications/x920fw89s?locale=en

USDA Farm Operating Loan Rate
https://www.fsa.usda.gov/programs-and-services/farm-loan-programs/index
AAA website for Michigan
https://gasprices.aaa.com/?state=MI
Added in to "power cost"

|  | Net Cost | Annual | Fuel \& Oil | Maintenance | Depreciation | -- Overhead ${ }^{3}$-- |  | Total Cost | Total Cost | Diesel |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tractor, combine or | of a New | Hours | Cost Per | \& Repair | Cost Per | Cost Per | Cost Per | Per Year | Per Hour | Use/Hr |
| Forage Harvester HP ${ }^{1}$ | Power Unit ${ }^{2}$ | of Use | Hour | Cost/Hr | Hour | Year | Hour | Of Use | Of Use | Gallons |

Tractors, Combines, and Self-Propelled Forage Harvesters (Without Heads)

| 40 HP | $\$ 28,000$ | 400 | $\$ 10.41$ | $\$ 0.94$ | $\$ 2.47$ | $\$ 1,292$ | $\$ 3.23$ | $\$ 6,822$ | $\$ 17.05$ | 1.76 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 60 HP | 36,000 | 400 | 15.62 | 1.21 | 3.18 | 1,644 | 4.11 | 9,646 | 24.11 | 2.64 |
| 75 HP | 59,000 | 400 | 19.52 | 2.09 | 4.84 | 2,668 | 6.67 | 13,246 | 33.12 | 3.30 |
| 105 HP MFWD | 150,000 | 450 | 27.33 | 4.50 | 13.17 | 6,291 | 13.98 | 26,541 | 58.98 | 4.62 |
| 130 HP MFWD | 200,000 | 450 | 33.84 | 6.00 | 17.56 | 8,339 | 18.53 | 34,168 | 75.93 | 5.72 |
| 160 HP MFWD | 241,000 | 500 | 41.65 | 8.03 | 19.28 | 10,068 | 20.14 | 44,548 | 89.10 | 7.04 |
| 200 HP MFWD | 355,000 | 500 | 52.06 | 11.83 | 28.40 | 14,726 | 29.45 | 60,872 | 121.74 | 8.80 |
| 225 HP MFWD | 353,000 | 400 | 58.57 | 9.41 | 34.40 | 14,798 | 36.99 | 55,749 | 139.37 | 9.90 |
| 260 HP MFWD | 422,000 | 400 | 67.68 | 6.75 | 41.12 | 17,630 | 44.07 | 63,851 | 159.63 | 11.44 |
| 310 HP 4WD | 440,000 | 400 | 80.69 | 7.04 | 42.88 | 18,369 | 45.92 | 70,612 | 176.53 | 13.64 |
| 360 HP 4WD | 402,000 | 400 | 93.71 | 6.43 | 39.17 | 16,809 | 42.02 | 72,534 | 181.33 | 15.84 |
| 425 HP 4WD | 477,000 | 400 | 110.63 | 7.63 | 46.48 | 19,888 | 49.72 | 85,784 | 214.46 | 18.70 |
| 275 HP Combine | 419,000 | 400 | 71.58 | 99.08 | 75.60 | 13,694 | 34.24 | 112,201 | 280.50 | 12.10 |
| 375 HP Combine | 482,000 | 400 | 97.61 | 113.98 | 86.97 | 15,802 | 39.51 | 135,228 | 338.07 | 16.50 |
| 440 HP Combine | 514,000 | 400 | 99.71 | 121.55 | 92.74 | 16,811 | 42.03 | 142,411 | 356.03 | 16.85 |
| 400 HP SP Forage Harvester Base <br> Unit | 410,000 | 350 | 56.79 | 57.27 | 15.19 | 20,510 | 58.60 | 65,748 | 187.85 | 9.60 |
| 625 HP SP Forage Harvester Base <br> Unit | 563,000 | 350 | 88.74 | 78.64 | 20.86 | 27,934 | 79.81 | 93,816 | 268.05 | 15.00 |

${ }^{1} \mathrm{HP}$ shown for the smaller tractors is PTO horsepower. Engine HP is shown for the larger tractors. PTO HP for the larger tractors runs about $87 \%$ of engine HP, and is shown in parentheses. Fuel use is estimated at 0.044 gallons of diesel fuel per hour per PTO HP.
${ }^{2}$ Net cost of a new unit assumes no trade-in. Farm machinery is exempt from sales tax in Minnesota so no sales tax is included.
${ }^{3}$ Overhead costs include interest, insurance, and housing but not depreciation, which is shown separately because it varies to some extent with use. Overhead pe hour will vary with annual use.

2022 Michigan State University Custom Work Rates

|  | Tractor | Net Cost | --Estimated-- |  |  |  | Labor | --Implement Cost/Acre-- |  |  |  | Total |  | -related | Diesel |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Size | of a New | Work-Performed |  | -Power Cost/Acre ${ }^{2}$ - |  | Cost |  | Deprec- |  |  | Cost |  | Cost | Fuel |
| Implement | (HP) | Implement ${ }^{1}$ | Acres/hr | Acres/yr | Fuel | Other | Per Acre | Repairs | iation | Overhead ${ }^{3}$ |  | Acre ${ }^{4}$ |  | Acre ${ }^{5}$ | Gal/Acre |
| Tillage |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Chisel Plow 23 Ft | 200 HP MFWD | \$53,500 | 11.85 | 711 | \$4.13 | \$5.88 | \$1.74 | \$1.23 | \$4.04 | \$3.20 | \$ | 20.49 | \$ | 14.80 | 0.70 |
| Chisel Plow 37 Ft | 310 HP 4WD | \$78,500 | 19.06 | 1,144 | \$4.13 | \$5.03 | \$1.08 | \$1.12 | \$3.68 | \$2.93 | \$ | 18.08 | \$ | 12.74 | 0.70 |
| Chisel Plow 57 Ft | 425 HP 4WD | \$131,000 | 29.36 | 1,762 | \$4.13 | \$3.54 | \$0.70 | \$1.22 | \$3.99 | \$3.00 | \$ | 16.21 | \$ | 11.52 | 0.70 |
| Chisel Plow, Front Dsk 16.3 Ft | 200 HP MFWD | \$35,000 | 8.37 | 670 | \$6.79 | \$8.32 | \$2.47 | \$0.81 | \$2.46 | \$2.44 | \$ | 22.72 | \$ | 16.77 | 1.15 |
| Chisel Plow, Front Dsk 21.3 Ft Fold | 310 HP 4WD | \$55,000 | 10.95 | 876 | \$6.79 | \$8.75 | \$1.89 | \$0.98 | \$2.96 | \$2.75 | \$ | 24.70 | \$ | 17.75 | 1.15 |
| Moldboard Plow 6 Bottom-18, 9 Ft | 130 HP MFWD | \$47,000 | 4.17 | 501 | \$7.80 | \$10.09 | \$4.95 | \$4.86 | \$5.03 | \$3.78 | \$ | 36.82 | \$ | 28.60 | 1.32 |
| Moldboard Plow 8 Bottom-18, 12 Ft | 160 HP MFWD | \$59,500 | 5.56 | 668 | \$7.80 | \$8.53 | \$3.71 | \$4.61 | \$4.78 | \$3.56 | \$ | 32.68 | \$ | 25.50 | 1.32 |
| Field Cultivator 23 Ft | 105 HP MFWD | \$53,000 | 16.59 | 1,659 | \$1.84 | \$1.91 | \$1.24 | \$1.03 | \$1.71 | \$1.33 | \$ | 8.87 | \$ | 6.70 | 0.31 |
| Field Cultivator 47 Ft | 260 HP MFWD | \$98,000 | 33.90 | 3,390 | \$1.84 | \$2.71 | \$0.61 | \$0.93 | \$1.55 | \$1.21 | \$ | 9.01 | \$ | 6.50 | 0.31 |
| Field Cultivator 60 Ft | 310 HP 4WD | \$132,000 | 43.27 | 4,327 | \$1.84 | \$2.21 | \$0.48 | \$0.98 | \$1.64 | \$1.24 | \$ | 8.41 | \$ | 6.12 | 0.31 |
| Tandem Disk 21 Ft Fold | 160 HP MFWD | \$74,000 | 12.22 | 1,222 | \$4.39 | \$3.88 | \$1.69 | \$2.03 | \$3.25 | \$2.49 | \$ | 16.75 | \$ | 12.61 | 0.74 |
| Tandem Disk 30 Ft Fold | 360 HP 4WD | \$108,000 | 17.45 | 1,745 | \$4.39 | \$5.02 | \$1.18 | \$2.07 | \$3.32 | \$2.48 | \$ | 19.44 | \$ | 14.55 | 0.74 |
| V-Ripper 25 " O.C., 10 Ft | 160 HP MFWD | \$20,500 | 6.18 | 618 | \$6.59 | \$7.68 | \$3.34 | \$1.07 | \$1.78 | \$1.52 | \$ | 22.12 | \$ | 17.34 | 1.11 |
| V-Ripper 30 " O.C., 17 Ft | 260 HP MFWD | \$26,500 | 10.51 | 1,051 | \$6.59 | \$8.75 | \$1.96 | \$0.81 | \$1.35 | \$1.21 | \$ | 20.53 | \$ | 15.13 | 1.11 |
| Planting |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Row Crop Planter 6 Row-30, 15 Ft | 60 HP | \$45,000 | 7.00 | 490 | \$2.39 | \$1.21 | \$4.97 | \$1.89 | \$3.18 | \$4.39 | \$ | 17.87 | \$ | 12.89 | 0.40 |
| Row Crop Planter 8 Row-30, 20 Ft | 75 HP | \$55,500 | 9.33 | 653 | \$2.39 | \$1.46 | \$3.73 | \$1.75 | \$2.94 | \$3.97 | \$ | 15.93 | \$ | 11.24 | 0.40 |
| Row Crop Planter 12 Row-30, 30 Ft | 105 HP MFWD | \$129,000 | 14.00 | 980 | \$2.39 | \$2.26 | \$2.48 | \$2.70 | \$4.55 | \$5.95 | \$ | 19.90 | \$ | 12.96 | 0.40 |
| Row Crop Planter 16 Row-30, 40 Ft | 200 HP MFWD | \$191,000 | 18.67 | 1,307 | \$2.39 | \$3.73 | \$1.86 | \$3.00 | \$5.05 | \$6.47 | \$ | 22.91 | \$ | 14.87 | 0.40 |
| Row Crop Planter 24 Row-30, 60 Ft | 310 HP 4WD | \$292,000 | 28.00 | 1,960 |  | \$3.42 | \$1.24 | \$3.06 | \$5.15 | \$6.49 | \$ | 22.25 | \$ | 14.12 |  |
| Presswheel Drill 16 Ft | 105 HP MFWD | \$27,000 | 6.79 | 509 | \$3.62 | \$4.66 | \$4.90 | \$1.26 | \$3.37 | \$2.17 | \$ | 20.39 | \$ | 16.16 | 0.61 |
| Presswheel Drill 20 Ft | 130 HP MFWD | \$32,000 | 8.48 | 636 | \$3.62 | \$4.96 | \$3.92 | \$1.19 | \$3.19 | \$2.07 | \$ | 19.33 | \$ | 15.08 | 0.61 |
| Presswheel Drill 25 Ft | 130 HP MFWD | \$61,500 | 10.61 | 795 | \$3.62 | \$3.97 | \$3.14 | \$1.84 | \$4.91 | \$2.98 | \$ | 20.03 | \$ | 15.30 | 0.61 |
| Presswheel Drill 30 Ft | 160 HP MFWD | \$77,000 | 12.73 | 1,018 | \$3.62 | \$3.73 | \$2.62 | \$2.06 | \$4.80 | \$2.86 | \$ | 19.34 | \$ | 14.90 | 0.61 |
| Air Seeder Drill w/Cart 52 Ft | 260 HP MFWD | \$279,000 | 22.06 | 1,765 | \$3.07 | \$4.17 | \$1.51 | \$4.30 | \$10.04 | \$5.56 | \$ | 28.65 | \$ | 21.09 | 0.52 |
| No-Till Drill 15 Ft | 130 HP MFWD | \$73,500 | 6.36 | 509 | \$5.32 | \$6.61 | \$5.23 | \$3.93 | \$9.17 | \$5.29 | \$ | 35.56 | \$ | 27.35 | 0.90 |

2022 Michigan State University Custom Work Rates

|  | Tractor | Net Cost | --Estimated-- |  |  |  | Labor | --Implement Cost/Acre-- |  |  |  | Total |  | -related | Diesel |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Size | of a New | Work-Performed |  | -Power Cost/Acre ${ }^{2}$ - |  | Cost |  | Deprec- |  |  | Cost |  | Cost | Fuel |
| Implement | (HP) | Implement ${ }^{1}$ | Acres/hr | Acres/yr | Fuel | Other | Per Acre | Repairs | iation | Overhead $^{3}$ |  | Acre ${ }^{4}$ |  | Acre ${ }^{5}$ | Gal/Acre |
| Crop Maintenance |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Row Cultivator 12 Row-30, 30 Ft | 160 HP MFWD | \$44,500 | 15.45 | 1,545 | \$2.69 | \$3.07 | \$1.36 | \$0.68 | \$1.54 | \$1.17 | \$ | 10.52 | \$ | 8.05 | 0.46 |
| Boom Sprayer, Self-Propelled 120 Ft | None | \$557,000 | 66.18 | 6,618 | \$0.41 | \$0.00 | \$0.57 | \$0.99 | \$2.91 | \$3.60 | \$ | 8.47 | \$ | 4.87 | 0.07 |
| Boom Sprayer, Pull-Type 90 Ft | 130 HP MFWD | \$55,000 | 46.09 | 1,152 | \$0.73 | \$0.91 | \$0.81 | \$0.38 | \$1.65 | \$2.45 | \$ | 6.94 | \$ | 4.09 | 0.12 |
| Stalk Shredder 20 Ft | 130 HP MFWD | \$36,000 | 7.76 | 776 | \$4.36 | \$5.43 | \$2.87 | \$1.55 | \$2.19 | \$2.16 | \$ | 18.56 | \$ | 14.01 | 0.74 |
| Harvest |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rotary Mower/Conditioner 12 Ft | 75 HP | \$44,500 | 8.73 | 698 | \$2.24 | \$1.56 | \$2.44 | \$0.87 | \$2.75 | \$2.72 | \$ | 12.56 | \$ | 9.08 | 0.38 |
| Hay Rake 30 Ft | 40 HP | \$33,500 | 26.18 | 2,095 | \$0.40 | \$0.25 | \$0.79 | \$0.24 | \$0.87 | \$0.73 | \$ | 3.28 | \$ | 2.42 | 0.07 |
| Hay Merger 14 Ft | 75 HP | \$65,000 | 10.86 | 2,172 | \$1.80 | \$1.25 | \$1.90 | \$1.60 | \$1.62 | \$1.29 | \$ | 9.47 | \$ | 7.56 | 0.30 |
| Hay Merger, Self-Propelled 34 Ft | None | \$260,000 | 26.38 | 5,275 | \$1.95 | \$0.00 | \$0.78 | \$1.58 | \$2.12 | \$2.05 | \$ | 8.48 | \$ | 6.44 | 0.33 |
| Hay Baler PTO Twine 12 Ft | 40 HP | \$33,500 | 4.36 | 873 | \$2.39 | \$1.52 | \$7.63 | \$3.87 | \$2.08 | \$1.67 | \$ | 19.15 | \$ | 16.75 | 0.40 |
| Round Baler 5x6, 20 Ft | 75 HP | \$94,000 | 9.45 | 1,891 | \$2.06 | \$1.44 | \$2.18 | \$8.54 | \$2.69 | \$1.86 | \$ | 18.78 | \$ | 16.21 | 0.35 |
| Round Baler w/Bale Wrap 5x6, 20 Ft | 75 HP | \$103,000 | 9.45 | 1,891 | \$2.06 | \$1.44 | \$2.18 | \$9.36 | \$2.95 | \$2.04 | \$ | 20.03 | \$ | 17.29 | 0.35 |
| Large Rectangular Baler 3x3, 20 Ft | 130 HP MFWD | \$147,000 | 11.64 | 2,909 | \$2.91 | \$3.62 | \$2.86 | \$3.38 | \$2.74 | \$1.96 | \$ | 17.46 | \$ | 13.91 | 0.49 |
| Large Rectangular Baler 4x3, 20 Ft | 130 HP MFWD | \$178,000 | 11.64 | 2,909 | \$2.91 | \$3.62 | \$2.86 | \$4.09 | \$3.31 | \$2.35 | \$ | 19.14 | \$ | 15.20 | 0.49 |
| Forage Harvester, Pull-Type w/Corn Head 3 Row, 7.5 Ft | 160 HP MFWD | \$85,000 | 2.07 | 414 | \$20.14 | \$22.94 | \$16.10 | \$11.58 | \$2.66 | \$10.39 | \$ | 83.81 | \$ | 63.69 | 3.40 |
| Forage Harvester, Pull-Type w/Pickup Head 12 Ft | 105 HP MFWD | \$74,500 | 3.31 | 662 | \$8.26 | \$9.56 | \$10.06 | \$6.34 | \$1.46 | \$5.72 | \$ | 41.41 | \$ | 31.46 | 1.40 |
| Forage Harvester, Self-Prop Corn Head 6 Row, 15 Ft | 625 HP SP Forage <br> Harvester Base Unit | \$94,000 | 5.09 | 1,018 | \$15.25 | \$35.22 | \$6.54 | \$1.48 | \$1.20 | \$4.84 |  | \$66.71 | \$ | 46.19 | 2.58 |
| Forage Harvester, Self-Prop Corn Head <br> 8 Row, 20 Ft | 625 HP SP Forage Harvester Base Unit | \$123,000 | 6.79 | 1,358 | \$15.25 | \$26.42 | \$4.90 | \$1.45 | \$1.17 | \$4.67 |  | \$51.69 | \$ | 35.26 | 2.58 |
| Forage Harvester, Self-Prop Pickup Head 12 Ft | 400 HP SP Forage Harvester Base Unit | \$30,500 | 4.07 | 815 | \$13.94 | \$32.18 | \$8.17 | \$0.60 | \$0.49 | \$2.27 |  | \$57.65 | \$ | 40.99 | 2.36 |
| Forage Harvester, Self-Prop Pickup Head (2X windrows) 24 Ft | 625 HP SP Forage <br> Harvester Base Unit | \$30,500 | 8.15 | 1,629 | \$10.89 | \$22.01 | \$4.09 | \$0.30 | \$0.24 | \$1.13 |  | \$38.67 | \$ | 27.74 | 1.84 |
| Combine Platform 20 Ft | 275 HP Combine | \$33,000 | 5.94 | 1,188 | \$12.05 | \$35.18 | \$5.60 | \$0.73 | \$1.91 | \$1.01 |  | \$56.49 | \$ | 49.71 | 2.04 |
| Combine Platform 25 Ft | 375 HP Combine | \$40,000 | 7.42 | 1,485 | \$12.05 | \$32.39 | \$4.48 | \$0.71 | \$1.86 | \$0.96 |  | \$53.54 | \$ | 47.26 | 2.04 |
| Combine Platform 30 Ft | 375 HP Combine | \$47,500 | 8.91 | 1,782 | \$12.05 | \$26.99 | \$3.74 | \$0.70 | \$1.84 | \$0.94 |  | \$45.16 | \$ | 39.78 | 2.04 |
| Combine Corn Hd 6 Row-30, 15 Ft | 275 HP Combine | \$57,000 | 5.09 | 1,018 | \$11.82 | \$41.04 | \$6.54 | \$1.47 | \$3.86 | \$1.96 |  | \$68.92 | \$ | 60.24 | 2.00 |

2022 Michigan State University Custom Work Rates

|  | Tractor | Net Cost | --Estimated-- |  |  |  | Labor | --Implement Cost/Acre-- |  |  | Total |  | -related | Diesel |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Size | of a New | Work-Performed |  | -Power Cost/Acre ${ }^{2}$ - |  | Cost |  | Deprec- |  | Cost |  | Cost | Fuel |
| Implement | (HP) | Implement ${ }^{1}$ | Acres/hr | Acres/yr | Fuel | Other | Per Acre | Repairs | iation | Overhead ${ }^{3}$ | Per Acre ${ }^{4}$ |  | Acre ${ }^{5}$ | Gal/Acre |
| Combine Corn Hd 8 Row-30, 20 Ft | 275 HP Combine | \$74,000 | 6.79 | 1,358 | \$11.82 | \$30.78 | \$4.90 | \$1.43 | \$3.76 | \$1.91 | \$53.33 | \$ | 46.37 | 2.00 |
| Combine Chopping Corn Hd 8 Row-30, 20 Ft | 275 HP Combine | \$100,000 | 6.79 | 1,358 | \$11.23 | \$30.78 | \$4.90 | \$6.66 | \$3.14 | \$3.09 | \$59.11 | \$ | 50.98 | 1.90 |
| Combine Corn Hd 12 Row-30, 30 Ft | 375 HP Combine | \$107,000 | 10.18 | 2,036 | \$11.82 | \$23.62 | \$3.27 | \$1.38 | \$3.62 | \$1.80 | \$43.27 | \$ | 37.59 | 2.00 |
| Combine Corn Hd 12 Row-22, 22 Ft | 375 HP Combine | \$113,000 | 7.47 | 1,493 | \$11.82 | \$32.20 | \$4.46 | \$1.98 | \$5.21 | \$2.59 | \$59.52 | \$ | 51.64 | 2.00 |
| $\begin{aligned} & \text { Combine Chopping Corn Hd } 12 \text { Row-30, } \\ & 30 \mathrm{Ft} \end{aligned}$ | 440 HP Combine | \$151,000 | 10.18 | 2,036 | \$11.23 | \$25.17 | \$3.27 | \$6.70 | \$3.16 | \$3.06 | \$51.16 | \$ | 43.97 | 1.90 |
| Combine Chopping Corn Hd 12 Row-22, 22 Ft | 440 HP Combine | \$149,000 | 7.47 | 1,493 | \$11.23 | \$34.33 | \$4.46 | \$9.02 | \$4.25 | \$4.12 | \$69.53 | \$ | 59.78 | 1.90 |
| Combine Belt Pickup Hd 23 Ft | 275 HP Combine | \$44,000 | 7.81 | 832 | \$9.17 | \$26.76 | \$4.26 | \$0.37 | \$3.52 | \$1.86 | \$45.95 | \$ | 39.70 | 1.55 |
| Grain Cart 30 Ft | 225 HP MFWD | \$104,000 | 6.87 | 1,375 | \$8.52 | \$11.76 | \$3.27 | \$4.15 | \$4.10 | \$2.78 | \$34.58 | \$ | 26.42 | 1.44 |

${ }^{1}$ Net cost of a new unit assumes no trade-in. Farm machinery is exempt from sales tax in Minnesota so no sales tax is included.
${ }^{2}$ Power cost per acre for the power unit assigned to each implement multiplied times that implement's acres/hour equals that power unit's total cost per hour shown in the "Tractors, Combines, and SelfPropelled Forage Harvesters (Without Heads)" table above.
${ }^{3}$ Overhead per acre will vary with annual use.
${ }^{4}$ Total cost/acre is total cost per hour divided by acres per hour. Includes fuel, lubricants, power and equipment repairs and maintenance, labor, and overhead costs including depreciation. Fuel is included in power cost.
${ }^{5}$ Use-related cost/acre is included in the total cost/acre amount. Use-related cost/acre includes everything in total cost/acre EXCEPT that non-depreciation overhead costs (interest, insurance, and housing) are omitted. Depreciation is included in use-related cost under the assumption that extra use reduces trade-in value which increases annual depreciation. In other words, depreciation is considered here to be at least partially use-related even though it is commonly thought of as being mainly time-related.

