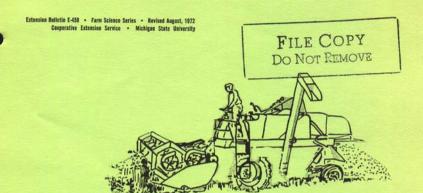
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Rates for Custom Work in Michigan Michigan State University Extension Service R.L. Trimble, D. L. Good, W.A. Tinsley, Agriculture Economics Issued August 1972 6 pages

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By R. L. TRIMBLE, D. L. GOOD and W. A. TINSLEY, Department of Agricultural Economics

Rates for Custom Work in Michigan

Farmers who hire or do custom work face the problem of determining a charge for the services. To help them, this pamphlet presents a summary of custom rates in common use in Michigan.

These rates are not suggested as those which should be charged. These are rates reported by a panel of Michigan farmers who hire or do custom work.

Rates may vary in the same area because of differences in size and type of equipment, distance to the job, quantity of materials furnished and services performed. However, these reported rates can help in establishing charges.

Tables 1 and 2 contain both the range of rates for a number of Michigan custom operations and the most common rate or rates reported.

Often farmers have to determine custom rates for new or unusual custom jobs when there are no prevailing market rates for these operations. A second section of this folder contains some guidelines for figuring such rates.

A big question is whether machinery should be owned or custom hired. A third section of this folder suggests means of analyzing which alternative is most profitable. Many county offices now offer computerized comparisons of whether it would be more profitable for you to buy or custom hire. Check with your local county extension office for details.

Issued in furtherance of cooperative extension work in agriculture and home economics, acts of May 8, and June 30, 1914, in cooperation with the U. S. Department of Agriculture. George S. McIntyre, Director, Cooperative Extension Service, Michigan State University, E. Lansing, Mich. 1928-10M-572LB

CUSTOM RATE SURVEY

(Charges Include Machine, Tractor, and Operator or Usual Crew)

Custom Job and Equipment	Range of Charges	Most Frequent Charges	Range of Charges	Most Frequent Charges	
A TOTAL CONTRACTOR CONTRACTOR	Per Acre		Per Hour		
CHOPPING HAYLAGE					
2-Row Self-Propelled Chopper & Blower With: 1 Man, 3 Wagons	\$12.00 - 25.00	\$15.00, 20.00 & 25.00	\$12,00 - 35.00	\$25.00	
2 Men. 1 Tractor, 2-3 Wagons		•	\$12.50 - 40.00	\$25,00	
3-Row Self-Propelled Chopper & Blower With: 2 Men, 1 Tractor, 3 Wagons			\$18.00 - 25.00	\$25.00	
CHOPPING CORN SILAGE	Per	Per Acre		Per Hour	
2-Row Self-Propelled Chopper & Blower With: 1 Man. 3 Wegons 2 Men. 1 Tractor, 2-3 Wegons	\$ 7.50 - 30.00	\$15.00 \$20.00	\$14.00 - 35.00	\$20.00	
3-Row Self-Propelled Chopper & Blower With: 2 Mem, 1 Tractor, 3 Wagons			\$15.00 - 40.00	10.0	
SILO FILLING	Per Foo	Per Foot Filled			
12 Foot 5110 14 Foot 5110	\$ 3.75 - 4.00 \$ 3.00 - 10.00	\$ 4.50 - 5.00			
16 Foot Silo 18 Foot Silo	\$ 5.00 - 7.00	\$8.50			
20 Foot Silo	\$ 4.75 - 14.00 \$ 9.50 - 18.00	\$10.00			
24 Foot Silo 30 Foot Silo	\$12.50 - 20.00	\$20.00	- X		
COMBINING	Per	Per Acre		Per Hour	
Small Grain 5-7 Foot 8-12 Foot	\$ 5.00 - 9.00	\$ 6.00 \$ \$7.00	\$ 6.00 - 12.00	\$7.00	
8-12 Foot 14 Foot	\$ 5.00 - 9.00 \$ 5.00 - 10.00 \$ 4.50 - 10.00	\$ 6.00 & \$7.00 \$ 6.00 & \$7.00 \$ 6.00 & \$7.00	\$10.00 - 16.00 \$ 8.00 - 26.00	\$10.00 & 12.00 \$15.00	
Field Beans	\$ 5.00 - 12.00 \$ 1.00 - 10.00	\$8.00	\$12.00 - 20.00		
Bean Pulling Bean Windrowing	\$ 1.00 - 10.00 \$ 1.00 - 3.00 \$ 5.00 - 10.00	\$ 2.00 & \$3.00 \$ 1.00 & \$2.00	\$ 6.00 - 8.00 \$ 5.00 - 8.00 \$12.00 - 21.00		
Soybeans	\$ 5.00 - 10.00	\$ 6.00, 7.00	\$12.00 - 21.00		
Alfalfa and Clover Seed	\$ 5.00 - 10.00	\$ 7.00 & 1/2 of Crop	•		
HAYING	Per	Per Acre		Per Hour	
Moving	\$ 1.00 - 4.00	\$2.00	\$ 5.50 - 8.00 \$ 6.00 - 10.00 \$ 5.00 - 6.00 \$ 3.00 - 9.00	\$6,00	
Mowing and Conditioning Raking	\$ 1.50 - 5.00 \$ 1.00 - 3.50	\$ 3.00 & \$4.00 \$ 1.50 & \$2.00 \$3.00	\$ 5.00 - 6.00		
Raking Pull-Type Mower Conditioner Self-Propelled Swather	\$ 2.00 - 6.00 \$ 2.00 - 5.00	\$3.00	\$ 5.00 - 12.00		
OTHER HARVESTING WORK	Per	Per Acre		Per Hour	
Stalk Shredding	\$ 1.00 - 5.00	\$2.00 \$3.00	\$ 6.00 - 10.00	\$10.00	
Swathing Grain Digging Potatoes	\$25.00 - 50.00	\$25.00 A \$30.00	\$25,00 - 30.00 \$ 8,00 - 12.00		
Roto Beating Potatoes Harvesting Sugar Beets	\$ 2.50 - 6.00 \$16.00 - 25.00	\$25.00	\$ 0.00 - 12.00		
FIELD BALING	Per	Sale			
Automatic Baler	\$.0730	\$.10 8 \$.12			
Hay (Twine) (Wire)	\$.1020	\$.10 & \$.12 \$.10 & \$.12 \$.10 & \$.12	THE THE		
Straw (Twine) (Wire)		\$.12			
Hauling Bales to Barn Charge Per Bale For Pulling Wagon New Holland Bale Wagon	\$.0110 \$.0103 \$.0208	\$.01 & \$.02			
DISKING	Per	Per Acre		Per Hour	
8-Foot Tandem	\$ 1.00 - 3.50	\$2.00	\$ 6.00 - 12.00 \$ 4.50 - 15.00	\$6.00 \$12.00	
10-Foot Tanden 12-Foot Tanden	\$ 1.00 - 5.00 \$ 2.00 - 3.00	\$2.00			
14-Foot Tandem	\$ 2,50 - 3,50				

CUSTOM RATE SURVEY

(Charges Include Machine, Tractor, and Operator or Usual Crew)

	Equipment	Chi	e of irges	Most Frequent Charges	Range of Charges	Most Frequent Charges	
PLOWING			Per Acre		Per Hour		
3-Bottom 4-Bottom		\$ 4.00	- 7.00	5.00 & \$ 6.00	\$ 5.00 - 10.00	\$ 6.00 4 \$10.0	
5-Bottom		\$ 4.00	- 7.00 \$ - 9.00	5.00 & \$ 6.00 \$6.00	\$ 5.00 - 10.00 \$ 7.00 - 18.00 \$ 7.50 - 18.00	\$10.00 \$10.00	
6-Bottom 7-Bottom		\$ 3.00 \$ 4.00	- 10.00 \$	5.00 A \$ 6.00	\$10.00 - 20.00		
8-Bottom		\$ 5.00	- 8.00 - 7.50 \$	\$6.00 5.00 & \$ 6.00	-		
DRAGGING			Per Acre		Per H	Per Hour	
2-Section		\$ 1.50	- 2.00		\$ 6.00 - 10.00		
3-Section 4-Section		\$ 1.00 \$ 1.00	- 3.00 - 4.00	1.50 - \$ 2.00	\$ 5.00 - 12.00 \$ 6.00 - 16.00	\$6.00	
PACKING			Per Acre Per Hour		our		
Cultipacker		\$.75	- 3,00	5 1.00 & \$1.50	\$ 4.00 - 10.00		
MANURE HANDLING		200					
Loading With Tractor Spreading				:	\$ 3.50 - 15.00 \$ 2.00 - 12.00	\$ 6.00 & \$10.0 \$ 2.00 & \$ 5.0	
DRILLING (small grain and bea	ans)		Per Acre		Per Ho	our_	
With Fertilizer		\$ 1.50	- 6.00	2.00 & \$3.00	\$ 5.00 - 12.00	\$6.00	
Without Fertilizer Band Seeding		\$.75	- 6.00	2.00 & \$3.00 1.50 & \$2.00 1.50 & \$2.00	The second second		
		\$.50	- 4.00 1	1.50 & \$2.00	\$ 5.00 - 6.00	•	
PLANTING SUGAR BEETS			Per Acre				
		\$ 2.25	- 10.00	\$5.00			
PLANTING CORN			Per Acre		Per Hour		
2-Row, No Fertilizer 40" Rows		\$ 1.50	- 3.00	\$3.00			
4-Row, No Fertilizer 40" Rows		\$ 1.00		\$2,00	\$ 8.00 - 10.00		
4-Row, Fertilizer & Chemica 20" Rows 30" Rows	als	\$ 3,00					
30" Rows 36" Rows		\$ 2.00	- 6.00	\$2.50			
40" Rows		\$ 2.00 \$ 2.50 \$ 1.00	- 5.00 - 6.00 S	\$2.50 2.50 & \$3.00	\$ 6.00 - 12.50		
6-Row, No Fertilizer 30" Rows		100000000000000000000000000000000000000		The second secon	\$ 0.00 - 12.50		
6-Row, Fertilizer & Chemica 30" Rows	ils	\$ 2.00					
30" Rows 8-Row, No Fertilizer		\$ 1.50	- 5.00	\$3.00	\$ 5.00 - 12.00		
8-Row, No Fertilizer 30" Rows		\$ 2.00	- 5.00	-			
8-Row, Fertilizer & Chemica 30" Rows	113	\$ 2.50	7.00				
PLANTING POTATOES (2-Row Plan	nter)		Per Acre		Per Ho	ur	
		\$ 5.00	- 12,00	\$10.00	\$ 4.00 - 15.00		
CULTIVATING			Per Acre		Per Hour		
2-Row Cultivator 4-Row Cultivator		\$ 1.50	- 3,00	\$2.00	\$ 4.00 - 12.00 \$ 6.00 - 15.00	\$6.00	
4-Row Rotary Hoe		\$ 1.00	- 2,00		The same of the sa	100	
Custom Job and Equipment	Range of Charges	Most Frequent Charges	Range of Charges	Host Frequent Charges	Range of Charges	Most Frequent Charges	
ICKING CORM	Per A	cre	Pe	r Bushel	Per	Hour	
	\$ 5.00 - 10.00	\$7.00			\$ 6.00 - 8.00	\$8.00	
Conventional Picker - No Shelling							
Conventional Picker - No Shelling Field Shelling a) Picker - Sheller b) Combine Shelling	\$ 6.00 - 12.00 \$ 5.00 - 12.00	\$8.00	\$.0410 .0210	\$.05 & 5.00/A	\$12.00 - 20.00	\$20.00	

RATES FOR MISCELLANEOUS CUSTOM WORK

(Includes Machine and Operator or Usual Crew)

Job	Basis for Charge	Range of Charges	Most Frequent Charges
Spraying - No Materials			
Boom Spraying			
a) Insect & Disease Control	Acre	\$ 1.00 - 4.00	\$1.50
b) Weed Control	Acre	\$ 1.00 - 3.50	\$1.50
Air Carrier Spraying			
a) Row Crops	Acre	\$ 1.25 - 2.75	\$2.00
b) Orchard	Acre	\$ 2.00 - 2.50	
Aerial Spraying			
a) Airplane - Insects & Disease b) Airplane - Weeds & Brush	Acre	\$ 1.00 - 4.00	\$ 2.00 & 2.50
	Acre	\$ 1.50 - 4.00	\$ 2.00 & 2.50
c) Helicopter - Insects & Diseased) Helicopter - Weeds & Brush	Acre	\$ 2.00 - 5.00	\$2.50
Bulldozing	Acre	\$ 2.25 - 2.50	\$2.50
a) 8' Blade	Hour	£ 9 00 22 00	#10 00 12 00 8 1F 00
b) 10' Blade	Hour	\$ 8.00 - 22.00 \$12.00 - 30.00	\$10.00, 12.00 & 15.00 \$20.00
c) 12' Blade	Hour	\$14.00 - 35.00	\$25.00
Tiling - Plastic Tubing	Rod	\$.60 - 3.50	\$1.50
Tiling - Concrete & Clay Tile	Rod	\$.60 - 3.75	\$ 1.50 & 1.80
Backhoe	Hour	\$ 7.00 - 30.00	\$12.00
Dragline (1/2 Cu. Yard)	Hour	\$12.00 - 30.00	\$15.00 & 20.00
Stone Picking	Hour	\$ 5.00 - 25.00	\$10.00 & 12.00
Rotary Mowing (Weeds & Brush)	Acre	\$ 2.50 - 6.00	\$2.50
Brush Chopping in Orchards	Hour	\$ 6.00 - 12.00	
Cherry Harvesting	Pound	\$.0305	\$.04
Buzzing Wood	Hour	\$ 3.00 - 10.00	•
Chain Saw Work	Hour	\$ 4.50 - 15.00	\$5.00
Trucking - Hour	Hour	\$ 8.00 - 16.00	\$ 8.00 & 10.00
- Mile	Mile	\$.10 - 1.00 \$.1040 \$.35 - 2.50 \$.50 - 6.00 \$.50 - 3.25 \$.0310	\$.50
Grinding Feed	Cwt.	\$.1040	\$.20
Bulk Spreading Fertilizer Bulk Spreading Fertilizer	Acre	\$.35 - 2.50	\$ 1.00 & 1.50
Applying Anhydrous Ammonia	Ton Acre	\$.50 - 6.00	\$ 1.50 & 2.00
Shelling Corn	Bushel	\$.50 - 3.25	\$2.00
Orying Corn	Bushel	\$.0310 \$.0512	\$.03 & .05
, y y	busilet	Also le/Pt.	\$.08 & .10
Aerial Seeding	Acre	\$.80 - 3.50	\$ 1.50 & 2.00
Sheep Shearing	Head	\$.60 - 1.50	\$.65 & .75
Boring Post Holes	Hole	\$.10 - 1.00	\$.10 & .50
Tree Planting	Thousand	\$ 7.50 - 25.00	\$.10 a .50
Plowing Snow	Hour	\$ 4.00 - 25.00	\$ 5.00, 10.00 & 12.0
Tractor - 2 Plow	Hour	\$ 5.00 - 10.00	\$5.00
3 Plow	Hour	\$ 3.00 - 10.00	\$ 8.00 & 10.00
4 Plow	Hour	\$ 2.00 - 15.00	\$12.00
5 Plow	Hour	\$ 4.00 - 15.00	\$10.00 & 15.00
6 Plow	Hour	\$ 4.00 - 20.00	\$8.00

Part II - How to figure custom rates * *

If you are hiring or doing custom work, the following will help you set the custom rate. Custom rates are based on (1) tradition or usual rates set in the community, (2) bargaining position of both parties, and (3) costs of operating the machines on your farm.

Here is how the machine cost of operation can be determined:	
A. Ownership cost per unit (acre, bushel, ton, hour)	
Depreciation: Original cost-salvage value estimated life \$	
Interest: Interest rate × original cost + 2*	
Repairs: Estimated 2 to 5% of original cost	
Taxes and insurance: Estimated 1 to 2% of original cost	
Total ownership cost annually	
Ownership cost per unit: Total ownership cost ÷ estimated annual use	(A) \$
B. Operating cost per unit (acre, hour, bushel, ton)	
Tractor: Gas, oil, repair	
Gal. gas per unit × price × 1,10†	
Machine: Gas, oil, maintenance	
Gal. gas per unit × price × 1.10†	
Labor: Hours per unit × wage rate. If acres, bushels, or tons, divide the wage rate by acres, bushels, or tons per hour	
Total operating cost per unit	(B) \$
C. Total ownership and operating cost (A plus B) per unit	
D. Custom rate (per acre, hour, bushel, or ton)	

bargaining power, or risk.

Total ownership and Operating cost adjusted for tradition,

^{*}Interest on declining balance basis.

[†]The addition of 10% to gasoline cost is for oil and minor maintenance.

^{**}Source: T. R. Nodland and H. G. Routhe, Extension Pamphlet 134, University of Minnesota, June 1961.

Part III - Farm machinery - should you own it? * *

To decide if you should own a machine, compare the custom rate with the ownership and operating cost of the machine on your farm. Use the following worksheet to determine cost of ownership and operating the machine. Compare this cost with the custom rate in your area.

1. Determination I-What will be the annual cost of owning	and operating this machiner
Ownership Cost	
Depreciation: Original cost-salvage value	
estimated life	
Interest: Interest rate × original cost + 2*	
Repairs: Estimated 2 to 5% of cost	
Taxes and Insurance: Estimated 1 to 2% of cost	
Total ownership cost annually:	(A) #
Ownership cost per unit: Total ownership cost + estimate (bu., acre, ton, hour)	
Operating Cost per Unit	
Tractor: Gas, oil, repair	
Gal. gas per unit × price × 1.10†	
Machine: Gas, oil, maintenance	
Gal. gas per unit × price × 1.10†	
Labor: Hours per unit × wage rate. If acres, bushels, or to rate by acres, bushels, tons per hour	
Total operating cost per unit	(C) \$
Total ownership and operating cost per unit (B $+$ C)	(D) \$
2. Determination 2-Will it cost more to own it than to hire	it done?
Custom rate (see tables 1 and 2)	
If ownership and operating cost exceed the custom rate, operation are an important factor. One should also consider business.	purchase is not desirable unless loss of production and timeliness of r alternative uses for capital and labor in another part of the farm
3. Determination 3-What acreage (or number of other units) is necessary to justify purchase of this machine?
$\frac{\text{Total ownership cost (A } ___)}{\text{Custom rate-operating cost (E - C = } ___)} = _$	accesses (or number of other units)
Custom rate—operating cost (E $-$ C $=$) =	seeds (or number or other numb)
Note: Other factors that might help justify a purchase are: 1) Possible losses due to untimeliness.	Other factors that might be unfavorable toward purchase are: 1) Better alternative use of capital.
2) Possibility of doing custom work.	2) Alternative value of tractor and labor saved if custom

3) Possible to do job with smaller machine.

*Interest on declining balance basis.

†The addition of 10% to gasoline cost is for oil and minor maintenance.

^{**}Source: T. R. Nodland and H. G. Routhe, Extension Pamphlet 134, University of Minnesota, June 1981.