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Rates for Custom Work in Michigan Michigan State University Extension Service W.A. Tinsley, Agriculture Economics Issued February 1967 6 pages

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# RATES FOR CUSTOM WORK IN MICHIGAN

By W. A. Tinsley Dept. of Agricultural Economics

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 set forth 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 the size and type of equipment, distance to the job, quantity of materials furnished and services performed. However, the reported rates do help in establishing charges.

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 most farmers face is whether machinery should be owned or custom hired. A third section of this folder suggests means of analyzing which is the more profitable alternative.

#### PART 1-CURRENT CUSTOM RATES

#### **Prevailing Rates**

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.

Jaued in furtherance of cooperative extension work in agriculture and home sconomics, acts of May 8, and June 30, 1914, in cooperation with the U. S. Department of Agriculture, Geo. Meintyre, Acting Director, Cooperative Extension Service, Michigan State University, East Lanshny, Michigan. P121:37-11X-M3

## TABLE 1. - Rates for Custom Work in Michigan

(Charges include machine, tractor, and operator or usual crew.)

Custom Job and Equipment	Acre Rates		Hourly Rates	
	Usual range	Most common rate or rates	Usual range	Most common rate or rates
CHOPPING HAY AND SILAGE Pull type chopper and blower with: 1 man, 1 tractor, 2 wagons 2 men, 2 tractors, 2-3 wagons Self propelled chopper 2 men, 2 tractors, 3 wagons	\$ 4.00-16.00 4.00-16.00	\$12.00 14.00-16.00	\$ 9.00-13.50 12.00-17.00 17.50-30.00	\$10.00 14.00 Varies with size crew
SHO FILLING	Bate Per	Foot Filled		
SILO FILLING           10 foot silo           12 foot silo           14 foot silo           20 foot silo	1.00- 6.00 3.00- 5.00 3.50- 5.00 10.00-12.00	2.00-2.50-3.00 3.00 4.00- 5.00 10.00		
COMBINING				
Small grain       5-7 foot       8-12 foot       10-14 foot       Field beans       Bean Pulling       Soybeans       Alfalfa and clover seed	5.00- 7.50 5.00- 8.00 5.00- 8.50 6.00- 8.50 1.50- 4.00 5.00- 8.00 5.00-15.00	6.00 6.00 7.00 2.00 6.00 6.00	5.00- 7.50 12.00-16.00 12.00-20.00 6.00-14.00 6.00- 6.50- 7.50	6.00- 7.00 12.00 9.00 5.00 11.00 7.50
PICKING CORN Conventional picker (no shelling)	5.00-10.00	6.00		
Picking and shelling corn per bushel	.1017	.10		
Picking and shelling corn per acre	5.00-12.00	8.00		
Picking and shelling with a flat charge per acre plus so much per bushel	5.00-10.00 .0206	5.00 .05		
OTHER HARVESTING WORK				
Roto beating potatoes Digging potatoes Swathing grain	3.00+ 4.00 6.00+ 1.50+ 3.50 1.00+ 4.00	4.00 6.00 2.50 2.00	4.00- 7.00	5.00
Harvesting sugar beets	20.00-25.00	20.00		
HAYING Mowing Conditioning, or crimping Raking, side delivery Self propelled swather	1.00- 4.00 .50- 3.50 .50- 3.50 4.00	1.50 1.50 1.50 4.00	3.00- 7.00 3.00- 5.00 3.00- 5.00	5.00 5.00 5.00
(12' with conditioner) Mowing and conditioning	2.00- 4.50	2.50	NE ST	

## TABLE 1. - Continued

(Charges include machine, tractor, and operator or usual crew.)

Custom Job and	Acre Rates		Hourly Rates	
Equipment	Usual range	Most common rate or rates	Usual range	Most common rate or rates
FIELD BALING		bale dropped		
Automatic baler Hay (twine) (wire) Straw (twine) (wire) Hauling bales to barn Charge for bale thrower & wagon Charge per bale for pulling a wagon	\$ .0814 .1020 .0814 .1020 .0510 .0104 .0103	\$ .10 .15 .10 .14 .10 .02 .01	\$ 5.00- 7.00 5.00- 7.00 6.00- 7.00 4.50- 7.00 1.00- 1.50	
PLOWING 3-bottom 4-bottom 5-bottom	3.00- 7.00 3.00- 7.00 3.00- 7.50	5.00 5.00 5.00	3.50- 7.50 5.00- 9.00 6.00-10.50	\$ 5.00- 7.00 8.00 8.00
DISKING 8-foot 10-foot	1.00- 3.50 1.00- 3.00	2.00 2.00	3.50+ 7.00 4.00+ 8.50	5.00 5.00+ 6.50
DRAGGING 2-section 3-section 4-section	1.00- 2.50 1.00- 2.50 .50- 3.00	1.50 1.50 1.00	3.00- 5.00 3.30- 5.50 3.50- 6.50	3.00 4.00 5.00
PACKING Cultipacker	.50- 2.50	1.00	3.00- 8.00	3.00-4.00-5.0
MANURE HANDLING Loading with tractor Spreading			2.00- 7.50 2.50- 7.00	5.00 4.00
DRILLING (Small grain and beans) With fertilizer Without fertilizer Band seeding	1.50+ 3.50 .50+ 3.00 1.00+ 3.00	2.00 2.00 2.00- 2.50	2.50- 6.00 3.00- 6.00 3.00- 6.00	6.00 3.00-4.50-5.00 4.50
PLANTING SUGAR BEETS	2.00- 5.00	3.00		
PLANTING CORN 2-row planter without fertilizer 4-row planter without fertilizer	1.50- 3.50	2.00	3,50- 5.00	3.50- 5.00
4-row planter applying fertilizer & chemicals	1.50- 4.00	2.50	5.00- 6.50	5.50
6-row planter without fertilizer	1.50- 3.50	2.50	5.00- 7.50	
6-row planter applying fertilizer & chemicals	2.00- 4.00	3.00	5.50- 7.50	6.50
PLANTING POTATOES (2 row planter)	5.00- 7.50	6.00		
CULTIVATING 2-row cultivator 4-row cultivator 4-row rotary hoe	1.00- 3.00 1.00- 3.50 .50- 3.00	2.00 2.00 1.00	3.00- 5.00 4.00- 5.00 3.00- 5.00	3.00 5.00 5.00



#### TABLE 2 - Rates for Miscellaneous Custom Work

(Includes machine and operator or usual crew.)

CUSTOM JOB	Basis of charge	Usual range	Most Common rate or rates
Spraying			
(no materials)			
Row crops	hour	\$ 2.00- 6.00	\$ 6.00
a contra a contra de la contra a	acre	1.00- 5.00	1.50
Orchard	hour	4.00- 6.50	
Weeds	acre	1.00- 3.50	1.50
Bulldozing	hour	A CONTRACTOR OF CASE	
7' blade		10.00-18.00	10.00
10' blade		10.00-20.00	15.00
12' blade		12.00-30.00	20.00
Tiling	rod	1.00- 2.25	1.25
Buzzing wood	hour	3.00- 8.00	5.00
Chain-saw work .	hour	2.50- 6.00	3.50
Trucking	hour	2.00- 6.50	5.00
	mile	.1525	.25
Grinding feed	cwt.	.1020	.15
Tree planting	thousand	9.00-16.00	10.00
Boring post holes.	hole	,1020	.15
boning post miner.	hour	4.00- 7.00	5.00
Plowing snow	hour	4.00-11.00	5.00
Brush chopping -	nour		
orchards	hour	5.00-10.00	7.00
Bulk spreading -	noui		
fertilizer	acre	.50- 5.00	1.00
Tertilizer	ton	1.00- 4.00	2.00
Applying	L'ORI	1.00	
anhydrous			
ammonia	acre	.50- 5.00	1.50
Dusting potatoes.	acre	.50- 2.00	2.00
Shelling corn	bushel	.0510	.05
onening com man	hour	6.00- 7.00	
Drying corna	bushel	.0414	.10
Sheep shearing	head	.4080	.50
Aerial seeding	acre	.75 - 2.50	1.50
Aerial spraying	acre	.75*	1100
(no materials)			
Insects	acre	1.00- 2.50	1.75
Weeds	acre	.50- 2.00	2.00
Brush	acre	.50- 2.50	2.00
Backhoe	hour	7.00-13.00	10.00
Dragline-	nour	100-12:00	10.00
<sup>1</sup> / <sub>2</sub> cu. yd	hour		12.00
a cut yu	nour		+4.00

«Most base rates on percentage of moisture. One basis for a charge was 1c for each 1% of moisture above 15%.

#### 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)

	Denrectation: Original cost-salvage value	
	Depreciation: 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(bu., acre, ton, hour)	(A) \$
3,	Operating cost per unit (acre, hour, bushel, ton)	
	Tractor: Gas, oil, repair	
	Gal. gas per unit $\times$ price $\times$ 1.10 <sup>†</sup>	
	Machine: Gas, oil, maintenance	
	Gal. gas per unit $\times$ price $\times$ 1.10 <sup>†</sup>	
	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) \$
G.	Total ownership and operating cost (A plus B) per unit	
D.	Custom rate (per acre, hour, bushel, or ton)	
	Total ownership and Operating cost adjusted for tradition, bargaining power, or risk.	

"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.

## 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 1--What will be the annual cost of owning and operating this machine?

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 +	autimated annual sur-	
(bu., acre, ton, hour)		(B) \$
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, bus rate by acres, bushels, tons per hour	hels, or tons, divide the wage	_
Total operating cost per unit		(C) \$
Total ownership and operating cost per unit (B -	+ C)	(D) \$
. Determination 2-Will it cost more to own it than	to hire it done?	
Custom rate (see tables 1 and 2)		(E) 8
If ownership and operating cost exceed the custo operation are an important factor. One should also business.	m rate, purchase is not desirable unless loss of o consider alternative uses for capital and labor	production and timeliness of in another part of the farm
. Determination 3-What acreage (or number of oth	ner units) is necessary to justify purchase of this	machine?
Total ownership cost (A) Custom rate-operating cost (E - C = eeded to justify ownership.	acreage (or number of oth	er units)
Note: Other factors that might help justify a purchase 1) Possible losses due to untimeliness,	e are: Other factors that might be unfa 1) Better alternative use of e	
2) Possibility of doing custom work.	<ol> <li>Detter alternative use of e</li> <li>Alternative value of tracta</li> </ol>	

3) Possible to do job with smaller machine,

<sup>&</sup>quot;Interest on declining balance basis.

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

<sup>\*\*</sup>Source: T. R. Nodland and H. G. Routhe, Extension Pamphlet 134, University of Minnesota, June 1961.