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OHIO FARM MACHINERY ECONOMIC COST ESTIMATES FOR 1985*

Revised and Adopted for Ohio
by
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The following information is designed as an aid in estimating farm machinery use costs for 1985. The costs are determined by formula and represent an average cost for a specific piece of machinery. These machinery costs are intended to be average estimates for the agricultural industry.

This year changes were made in the salvage value and repair and maintenance calculations. Salvage value at ten years of life now ranges from 16 to 30 percent instead of the ten percent previously used. Repair and maintenance calculations are based on the 1984 Agricultural Engineer's Yearbook and vary from last year's estimate.

There are two types of costs associated with owning and operating a machine: Fixed costs, which are incurred whether or not the machine is used, include depreciation, interest, insurance, housing, and taxes. Operating costs, which occur only when the machine is used, include fuel, lubrication, repairs, and labor.

Fixed Costs

Each machine is depreciated for ten years and investment credit taken at the full ten percent rate. It is assumed that a piece of equipment purchased new will be used commercially for ten years even though it may be owned by several people.

Interest and insurance are calculated by multiplying the average investment (new cost plus salvage value divided by two) times the rates of interest and insurance. Interest and insurance rates are assumed to be 13.5 percent and .75 percent, respectively. Housing cost is assumed to be 75 cents per square foot of shelter space needed per year. There are no property taxes on farm machinery in Ohio.

Formulas Used to Compute Fixed Machinery Costs

Depreciation per year = $\frac{\text{purchase price} - \text{investment credit} - \text{salvage value}}{\text{(years you will use machine)}}$

Interest per year = $\frac{\text{purchase price} + \text{salvage value}}{2} \times \text{interest rate}$

Insurance per year = $\frac{\text{purchase price} + \text{salvage value}}{2} \times \text{rate}$

Housing per year = price per square foot x square feet shelter space required

Taxes per year = 0 (no taxes on personal property in Ohio)

Operating Costs

Fuel cost is calculated by multiplying the fuel consumption by the price of fuel, with fuel consumption assumed to be .06 gallons of diesel fuel per horsepower hour. The price of fuel is assumed to be \$1.00 per gallon for diesel. All power units, tractors, combines, trucks, etc., are assumed to be diesel powered. An estimate of gasoline consumption can be made by multiplying the diesel fuel consumption by a factor of 1.36. Lubrication cost is assumed to be ten percent of fuel cost.

The formulas for estimating the repair and maintenance costs estimate total accumulated repair costs according to the accumulated hours of use: the total costs are then broken down to a per hour cost estimate. The amount of annual use of a machine is an estimate of the number of hours a commercial farmer would use that particular machine in one year.

Labor is assumed to be an hourly wage rate, which includes 30 percent of benefits, of \$6.50 per hour for unskilled labor and \$7.80 per hour for skilled labor. Labor per acre for an operation such as plowing and disking is calculated by using the work rate on the implement instead of the tractor. Therefore, plows and disks using the same tractor have different per acre labor requirements. Less labor per acre is used in a disking operation that covers more acres per hour than in a plowing operation.

Minimum tillage planters have been included reflecting the current interest in minimum or reduced tillage practices in Ohio.

Machinery price changes varied for 1985, as compared to 1984, with price increases in some types of machinery and price declines in others. The following tables compares the machinery function costs per acre for four selected items from 1982 to 1985.

<u>Machine Function</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>
plow 6-16	\$13.28	\$14.24	\$13.72	\$14.47
corn planter 6-30	10.91	10.89	10.57	10.23
combine small grain	17.85	18.57	19.66	20.56
combine corn 6-30	28.98	29.47	30.34	30.42

These cost estimates are not intended to be indicative of everyone's cost, but are intended to be used as a guide in planning the cropping operation. Individuals have unique costs because of differences in buying power, repair programs, average annual use, and overall replacement programs.

The following tables provide the 1985 machinery function costs broken down into several categories. Some relevant supporting data also is included.

TILLAGE EQUIPMENT

MACHINE	TRACTOR HP	NEW COST	ESTIMATED ACRES/HR	ANNUAL ACRES USE	TOTAL COST/ ACRE	TOTAL COST/ HOUR	CASH COST/ ACRE	PER ACRE COST			DIESEL FUEL GAL/ACRE
								TRACTOR	IMPLEMENT	LABOR	
MB PLOW 2-16	40	1633.00	1.16	139.29	15.35	17.82	3.74	7.00	2.60	5.76	2.07
MB PLOW 3-16	60	2621.00	1.75	209.45	13.29	23.20	3.73	6.68	2.78	3.83	2.06
MB PLOW 4-16	75	7845.00	2.33	279.10	15.96	37.12	4.59	6.93	6.16	2.87	1.93
MB PLOW 5-16	100	9153.00	2.91	348.74	15.66	45.50	4.86	7.60	5.76	2.30	2.06
MB PLOW 6-16	120	10688.00	3.49	453.82	14.47	50.53	4.83	7.16	5.40	1.91	2.06
MB PLOW 7-16	140	12787.00	4.07	529.27	14.57	59.33	4.92	7.41	5.53	1.64	2.06
MB PLOW 8-16	160	17254.00	4.65	604.71	14.68	68.26	5.22	6.73	6.51	1.44	2.06
MB PLOW 9-18	225	19819.00	5.89	883.64	14.31	84.29	5.23	7.61	5.56	1.13	2.29
MB PLOW 10-18	225	21480.00	6.55	981.82	13.30	87.03	4.86	6.85	5.43	1.02	2.06
MB PLOW 12-18	275	24121.00	7.85	1178.18	12.79	100.47	4.77	6.86	5.08	.85	2.10
CHISEL PLOW 10 FT	75	3014.00	4.36	436.36	6.72	29.31	1.81	3.69	1.49	1.53	1.03
CHISEL PLOW 15 FT	120	4501.00	6.55	654.55	6.29	41.16	1.97	3.82	1.45	1.02	1.10
CHISEL PLOW 17 FT	140	4899.00	7.42	741.82	6.36	47.19	2.03	4.06	1.40	.90	1.13
CHISEL PLOW 20 FT	160	6685.00	8.73	872.73	5.96	51.97	2.02	3.59	1.60	.77	1.10
CHISEL PLOW WING 24	225	11497.00	10.47	1047.27	7.11	74.47	2.24	4.28	2.19	.64	1.29
CHISEL PLOW WING 29	250	13278.00	12.65	1265.45	6.55	82.84	2.07	3.93	2.09	.53	1.19
CHISEL PLOW WING 35	300	14077.00	15.27	1527.27	6.25	95.40	2.02	3.98	1.83	.44	1.18
FIELD CULTIVATOR 12	75	2828.00	6.06	727.27	4.60	27.88	1.27	2.66	.84	1.10	.74
FIELD CULTIVATOR 18	100	3851.00	8.73	1047.27	4.07	35.56	1.24	2.53	.78	.77	.69
FIELD CULTIVATOR 28	160	9150.00	13.58	1629.09	3.93	53.42	1.33	2.31	1.14	.49	.71
FIELD CULTIVATOR 37	225	11880.00	17.94	2152.73	3.61	64.81	1.28	2.50	1.11	.01	.75
FIELD CULTIVATOR 50	250	20186.00	24.24	2909.09	3.70	89.73	1.14	2.05	1.37	.28	.62
DISK 10 FT	60	4896.00	4.85	484.85	5.62	27.25	1.26	2.41	1.84	1.38	.74
DISK 16 FT	75	9923.00	7.76	775.76	5.25	40.69	1.10	2.08	2.31	.86	.58
DISK 17 FT	75	11366.00	8.24	824.24	5.23	43.09	1.07	1.96	2.46	.81	.55
DISK 20 FT	100	11987.00	9.70	969.70	5.20	50.39	1.21	2.28	2.23	.69	.62
DISK 21 FT	100	12500.00	10.18	1018.18	5.03	51.18	1.16	2.17	2.20	.66	.59
DISK 24 FT	120	16454.00	11.64	1163.64	5.24	61.00	1.22	2.15	2.52	.57	.62
DISK 28 FT	140	18795.00	13.58	1357.58	5.18	70.26	1.22	2.22	2.46	.49	.62
DISK 32 FT	160	21788.00	15.52	1551.52	4.94	76.64	1.23	2.02	2.49	.43	.62
DISK 40 FT	180	30341.00	19.39	1939.39	5.03	97.64	1.18	1.93	2.76	.34	.56
DISK OFFSET 14 FT	140	9636.00	6.11	610.91	8.89	54.31	2.45	4.94	2.86	1.09	1.38
DISK OFFSET 16 FT	160	10410.00	6.98	698.18	8.15	56.93	2.43	4.49	2.71	.96	1.38
DISK OFFSET 18 FT	180	11145.00	7.85	785.45	8.19	64.34	2.48	4.76	2.58	.85	1.38
DISK-WING OFFSET 21	225	13570.00	9.16	916.36	8.28	75.88	2.34	4.89	2.66	.73	1.47
DISK-WING OFFSET 23	225	17745.00	10.04	1003.64	8.28	83.15	2.22	4.47	3.15	.67	1.35
LANDPLANE 45-12 FT	180	7500.00	6.40	480.00	10.07	64.43	3.04	5.84	3.12	1.11	1.69
LANDPLANE 55-14 FT	225	15000.00	8.00	600.00	11.34	90.72	2.88	5.60	4.85	.88	1.69
LANDPLANE 70-14 FT	225	16000.00	7.47	560.00	12.56	93.82	3.12	6.01	5.61	.95	1.81
SPRINGTOOTH DRAG 30	60	3491.00	16.00	480.00	2.38	38.15	.37	.73	1.21	.44	.22
SPRINGTOOTH DRAG 48	75	4360.00	30.25	1058.91	1.50	45.25	.25	.53	.73	.23	.15

HARVESTING EQUIPMENT

MACHINE	TRACTOR	NEW COST	ESTIMATED ACRES/HR	ANNUAL ACRES USE	TOTAL COST/ ACRE	TOTAL COST/ HOUR	CASH COST/ ACRE	PER ACRE COST			DIESEL FUEL GAL/ACRE
								TRACTOR	IMPLEMENT	LABOR	
MOWER-COND 9 FT	60	9404.00	4.09	327.27	9.73	39.82	1.80	2.85	5.12	1.76	.88
SWATHER-COND. 12 FT	---	17954.00	5.45	436.36	8.73	47.62	.94	0	7.53	1.20	.55
SWATHER-COND. 15 FT	---	18585.00	6.82	545.45	7.21	49.15	.76	0	6.25	.96	.44
SWATHER 12 FT	---	28635.00	5.82	465.45	11.96	69.59	1.06	0	10.83	1.13	.52
SWATHER 15 FT	---	29205.00	7.27	581.82	9.76	70.99	.86	0	8.86	.90	.41
SWATHER 18 FT	---	30267.00	8.73	698.18	8.41	73.38	.73	0	7.66	.75	.34
SWATHER 20 FT	---	31721.00	9.70	775.76	7.89	76.51	.67	0	7.22	.68	.31
1 TON STACKER	60	12500.00	4.15	829.09	8.53	35.36	2.47	2.81	3.63	2.09	.87
3 TON STACKER	75	16368.00	4.84	1064.00	9.06	43.81	2.86	3.33	3.93	1.79	.93
6 TON STACKER	100	25095.00	5.53	1547.64	10.54	58.26	4.11	3.99	4.98	1.57	1.09
BALER PTO TWINE	40	9197.00	3.78	756.36	7.39	27.96	1.91	2.15	2.96	2.29	.63
ROUND BALER 1500 LB	60	13479.00	4.64	927.27	7.55	35.01	2.28	2.52	3.47	1.57	.78
ROUND BALER 1000 LB	60	11092.00	3.01	602.73	10.69	32.22	3.20	3.87	4.41	2.41	1.19
ROTARY MOWER	40	1921.00	2.73	272.73	6.87	18.74	1.62	2.98	1.49	2.40	.88
RAKE (HYD)	40	2610.00	3.49	698.18	5.22	18.21	1.39	2.33	1.01	1.88	.69
FORAGE HARV. 1 ROW	60	11003.00	.95	94.55	42.75	40.42	8.19	12.34	21.25	9.16	3.81
FORAGE HARV. 2 ROW	100	16071.00	1.65	165.45	36.29	60.04	8.01	13.34	17.77	5.23	3.63
FOR HARV 2 ROW SP	---	75192.00	2.04	305.45	53.15	108.24	10.13	0	48.90	4.25	3.63
FOR HAR 3 ROW SP	---	94750.00	3.05	458.18	43.62	133.25	8.21	0	40.79	2.83	2.78
FORAGE BLOWER LG	60	3375.00	1.00	50.00	29.38	29.38	5.66	11.66	11.16	6.55	3.60
CORN PICKER 2-36	40	18890.00	1.42	212.73	29.10	41.28	5.65	5.73	17.27	6.10	1.69
PICKER-SHELLER 2-ROW	60	16832.00	1.49	223.36	28.33	42.18	6.18	7.83	14.68	5.81	2.42
COMBINE SM GRAIN SML	SML	5415.00	4.10	819.39	20.07	82.24	8.44	16.56	1.40	2.11	1.46
COMBINE SM GRAIN MED	MED	6143.00	4.73	945.45	20.56	97.19	8.81	17.35	1.38	1.83	1.52
COMBINE SM GRAIN LGE	LRG	8303.00	6.30	1260.61	17.33	109.23	7.51	14.56	1.39	1.37	1.38
COMBINE SOYBEANS SML	SML	9050.00	3.58	716.97	24.00	86.05	9.90	18.93	2.66	2.42	1.67
COMBINE SOYBEANS MED	MED	10067.00	4.14	827.27	24.48	101.27	10.31	19.83	2.56	2.09	1.74
COMBINE SOYBEANS LGE	LRG	12339.00	4.96	992.73	22.86	113.46	9.74	18.49	2.62	1.74	1.75
COMBINE CORN 3-30 SM	SML	9557.00	1.77	354.55	48.84	86.57	20.10	38.28	5.68	4.88	3.38
COMBINE CORN 2-38 SM	SML	6046.00	1.49	297.82	55.68	82.91	23.32	45.57	4.29	5.81	4.03
COMBINE CORN 3-38 SM	SML	9913.00	2.25	449.09	38.72	86.95	15.91	30.22	4.65	3.86	2.67
COMBINE CORN 4-36 MD	MED	13380.00	2.84	567.27	36.93	104.75	15.33	28.92	4.96	3.05	2.54
COMBINE CORN 4-30 MD	MED	12825.00	2.60	520.00	40.05	104.14	16.67	31.54	5.18	3.33	2.77
COMBINE CORN 6-30 LG	LRG	17295.00	3.90	780.00	30.42	118.63	12.73	23.54	4.66	2.22	2.25
COMBINE CORN 8-30 LG	LRG	22578.00	4.73	945.45	26.27	124.19	10.79	19.42	5.02	1.83	1.84
COMBINE CORN 12-30 J	JMB	35848.00	7.09	1418.18	22.20	157.41	9.15	15.68	5.29	1.22	1.69
POTATO HVSTR SEED 2R	120	42500.00	1.49	319.68	62.08	92.74	16.36	16.74	29.82	15.53	4.82
POTATO HRVSTR. 2 ROW	120	42500.00	1.99	318.68	51.13	101.85	11.54	12.55	26.94	11.65	3.61
BEEF LIFTER 4 ROW	100	33335.00	3.47	277.21	29.78	103.21	4.78	6.37	20.92	2.50	1.73
BEEF LIFTER 6 ROW	120	40708.00	5.20	416.00	23.51	122.26	3.80	4.81	17.04	1.66	1.38
BEEF TOPPER 4 ROW	75	14500.00	4.26	341.18	12.99	55.41	2.24	3.78	7.38	1.83	1.06
BEEF TOPPER 6 ROW	100	15500.00	6.40	512.00	9.95	63.69	1.96	3.45	5.28	1.22	.94
BEEF WAGON 8 TON	75	7000.00	3.47	277.21	11.09	38.43	2.34	4.65	4.55	1.89	1.30

TRACTORS AND COMBINES (WITHOUT HEADS)

TRACTOR	HP	NEW COST	ANNUAL HOURS USE	ANNUAL FIXED COST	FIXED COST/HR	ANNUAL VARIABLE COST	VARIABLE COST/HOUR	ANNUAL TOTAL COST	TOTAL COST/HOUR	REPAIR + MAINT. COST/HR	FUEL USE HOUR
40 HP		14826.00	500.00	2295.31	4.59	1764.78	3.53	4060.09	8.12	.84	2.4
60 HP		20887.00	500.00	3225.20	6.45	2606.61	5.21	5831.81	11.66	1.25	3.6
75 HP		30351.00	500.00	4674.63	9.35	3385.53	6.77	8060.16	16.12	1.82	4.5
100 HP		44789.00	550.00	6884.27	12.52	5255.84	9.56	12140.11	22.07	2.96	6.0
120 HP		49462.00	550.00	7599.15	13.82	6151.47	11.18	13750.62	25.00	3.26	7.2
140 HP		60485.00	550.00	9306.22	16.92	7277.61	13.23	16583.82	30.15	3.99	8.4
160 HP		63237.00	600.00	9726.64	16.21	9067.84	15.11	18794.48	31.32	4.55	9.6
180 HP		77672.00	600.00	11931.85	19.89	10483.43	17.47	22415.28	37.36	5.49	10.8
225 HP 4WD		83885.00	500.00	12897.51	25.80	9522.13	19.04	22419.63	44.84	4.19	13.4
250 HP 4WD		92975.00	500.00	14286.17	28.57	10574.37	21.15	24860.55	49.72	4.65	15.0
275 HP 4WD		100000.00	500.00	15359.38	30.72	11575.00	23.15	26934.38	53.87	5.00	16.5
300 HP 4WD		114657.00	500.00	17598.51	35.20	12766.42	25.53	30364.93	60.73	5.73	18.0
320 HP 4WD		120000.00	500.00	18414.75	36.83	13560.00	27.12	31974.75	63.95	6.00	19.2
350 HP 4WD		135000.00	500.00	20706.28	41.41	14925.00	29.85	35631.28	71.26	6.75	21.0
SML COMBINE		66138.00	300.00	10404.38	34.68	9952.36	33.17	20356.74	67.86	26.57	6.0
MED COMBINE		79956.00	300.00	12590.44	41.97	12014.00	40.05	24604.44	82.01	32.13	7.2
LRG COMBINE		88662.00	300.00	13979.98	46.60	13558.43	45.19	27538.41	91.79	35.62	8.7
JMB COMBINE		105711.00	300.00	16662.89	55.54	16702.54	55.68	33365.43	111.22	42.48	12.0

PLANTING EQUIPMENT

MACHINE	TRACTOR HP	NEW COST	ESTIMATED ACRES/HR	ANNUAL ACRES USE	TOTAL COST/ACRE	TOTAL COST/HOUR	CASH COST/ACRE	PER ACRE COST			DIESEL FUEL GAL/ACRE
								TRACTOR	IMPLEMENT	LABOR	
CORN PLANTER 4-36	40	9283.00	4.58	320.73	9.16	41.97	1.51	1.77	5.41	1.97	.52
CORN PLANTER 6-36	60	16376.00	6.87	481.09	9.32	64.07	1.63	1.70	6.31	1.32	.52
CORN PLANTER 6-30	60	14276.00	5.73	400.91	10.23	58.57	1.82	2.04	6.61	1.58	.63
CORN PLANTER 8-30	75	21384.00	7.64	534.55	10.69	81.62	1.91	2.11	7.39	1.18	.59
CORN PLANTER 12-30	100	32416.00	11.45	801.82	10.19	116.68	1.87	1.93	7.47	.79	.52
MIN-TIL PLANTER 4-36	60	11678.00	3.56	249.45	14.52	51.73	2.66	3.27	8.70	2.54	1.01
MIN-TIL PLANTER 6-36	75	15961.00	5.35	374.18	12.62	67.45	2.36	3.02	7.91	1.69	.84
MIN-TIL PLANTER 6-30	75	15643.00	4.45	311.82	14.95	66.57	2.80	3.62	9.29	2.03	1.01
MIN-TIL PLANTER 8-30	100	22296.00	5.94	415.76	15.14	89.94	2.98	3.72	9.90	1.52	1.01
MIN-TIL PLANTER 8-36	100	23409.00	7.13	498.91	13.02	92.82	2.54	3.10	8.66	1.27	.84
MIN-TIL PLANTER 12-3	160	33498.00	8.91	623.64	14.42	128.45	3.07	3.52	9.89	1.02	1.08
POTATO FILLER	---	7000.00	5.75	321.75	3.87	22.24	.31	0	3.87	0	.02
POTATO ROW MARKER 4R	120	8560.00	4.98	214.11	13.43	66.86	2.38	5.02	6.46	1.94	1.45
POTATO ROW MARKER 6R	140	11770.00	7.47	321.17	11.27	84.16	1.90	4.04	5.94	1.29	1.12
POTATO PLANTER 4 ROW	120	20000.00	3.83	214.50	27.31	104.59	4.41	6.53	16.13	4.65	1.88
POTATO PLANTER 6 ROW	140	32000.00	5.75	321.75	25.55	146.81	3.89	5.25	17.21	3.10	1.46
BEET PLANTER 12 ROW	100	20000.00	4.67	280.00	19.45	90.78	3.37	4.73	12.65	2.07	1.29
GRAIN DRILL PW 12 FT	40	7986.00	4.78	382.25	7.58	36.24	1.44	1.70	4.07	1.81	.50
GRAIN DRILL PW 14 FT	40	8296.00	5.57	445.96	6.64	37.01	1.26	1.46	3.63	1.55	.43
GRAIN DRILL PW 16 FT	60	9934.00	6.37	509.67	6.99	44.53	1.48	1.83	3.80	1.36	.57
GRAIN DRILL PW 20 FT	75	11907.00	7.96	637.09	6.76	53.81	1.48	2.02	3.65	1.09	.57
GRAIN DRILL PW 24 FT	75	14284.00	9.56	764.51	6.24	59.60	1.34	1.69	3.64	.91	.47
GRAIN DRILL PW 28 FT	100	17180.00	11.15	891.93	6.51	72.60	1.51	1.98	3.76	.78	.54

MAINTENANCE EQUIPMENT

MACHINE	TRACTOR HP	NEW COST	ESTIMATED ACRES/HR	ANNUAL ACRES USE	TOTAL	TOTAL	CASH	PER ACRE COST			DIESEL
					COST/ ACRE	COST/ HOUR	COST/ ACRE	TRACTOR	IMPLEMENT	LABOR	FUEL GAL/ACRE
CULTIVATOR 4-36	40	2372.00	4.65	465.45	4.18	19.44	.87	1.74	.97	1.46	.52
CULTIVATOR 6-36	60	3537.00	6.98	698.18	3.61	25.19	.86	1.67	.96	.98	.52
CULTIVATOR 6-30	60	3065.00	5.82	581.82	4.17	24.27	1.01	2.00	1.00	1.17	.62
CULTIVATOR 8-30	75	4742.00	7.76	775.76	4.10	31.84	1.01	2.08	1.15	.88	.58
CULTIVATOR 12-30	140	8934.00	11.64	1163.64	4.58	53.34	1.31	2.59	1.41	.59	.72
RIDGE-CULT 4-36	75	4899.00	4.65	465.45	6.88	32.01	1.69	3.46	1.94	1.48	.97
RIDGE-CULT 6-36	100	7222.00	6.98	698.18	6.05	42.23	1.60	3.16	1.90	.99	.86
RIDGE-CULT 6-30	100	6292.00	5.82	581.82	6.95	40.42	1.88	3.79	1.98	1.17	1.03
RIDGE-CULT 8-36	100	9360.00	9.31	930.91	4.95	46.09	1.25	2.37	1.84	.74	.64
RIDGE-CULT 8-30	100	8126.00	7.76	775.76	5.64	43.76	1.46	2.85	1.92	.88	.77
RIDGE-CULT 12-30	160	12563.00	12.36	1236.36	5.02	62.06	1.45	2.53	1.85	.64	.78
ROTARY HOE 16	40	2986.00	10.86	434.42	2.57	27.88	.37	.75	1.22	.60	.22
POTATO CULT. 4 ROW	75	5000.00	6.13	888.63	4.91	30.10	1.39	2.63	1.17	1.11	.73
POTATO CULT. 6 ROW	75	5500.00	9.19	1286.98	3.38	31.08	.93	1.75	.89	.74	.49
BEET CULT. 12 ROW	100	9000.00	6.00	360.00	9.03	54.21	1.77	3.68	4.22	1.14	1.00
BEET THINNER 6 ROW	100	16000.00	2.10	210.00	28.18	59.19	6.23	10.51	13.81	3.86	2.86
BEET THINNER 12 ROW	120	30000.00	4.20	420.00	20.73	87.06	4.23	5.95	12.84	1.93	1.71
SPRAYER 30 FT	40	3255.00	14.18	1134.55	1.84	26.09	.34	.57	.58	.69	.17
SPRAYER 50 FT	60	4733.00	23.64	2363.64	1.33	31.41	.30	.49	.42	.41	.15
SPRAYER HI PRES 50FT	60	28240.00	23.64	2363.64	3.29	77.75	.71	.49	2.38	.41	.15
ANHYDROUS APPLICATOR	160	14338.00	12.73	509.09	8.45	107.56	2.00	2.46	5.31	.68	.75
FERTILIZER SPRDR 40	60	7460.00	38.79	1163.64	1.68	65.03	.26	.30	1.15	.22	.09
SHREDDER 12 FT	60	6250.00	4.36	436.36	6.81	29.71	1.52	2.67	2.63	1.50	.83
LIGHT TRUCK	---	13000.00	1.52	606.06	12.67	19.19	4.89	0	8.34	4.32	1.32
MEDIUM TRUCK	---	26000.00	1.52	606.06	19.86	30.09	8.69	0	15.54	4.32	1.65
HEAVY TRUCK	---	42000.00	1.52	606.06	29.46	44.63	14.13	0	25.14	4.32	2.75
MANURE SPREADER 150	75	4656.00	3.49	349.09	9.94	34.71	3.21	4.62	3.41	1.91	1.29
MANURE SPREADER 225	100	6920.00	3.49	349.09	13.30	46.42	4.62	6.32	5.06	1.91	1.72
MANURE SPREADER 400	100	11151.00	4.65	465.45	12.28	57.14	4.33	4.74	6.10	1.44	1.29
GRAVITY BOX 185 BU	40	1545.00	1.65	215.09	10.69	17.69	2.53	4.91	1.82	3.96	1.45
GRAVITY BOX 240 BU	40	1711.00	1.65	215.09	10.87	17.99	2.57	4.91	2.00	3.96	1.45
HAY WAGON	40	2143.00	3.78	945.45	6.35	24.00	1.24	2.15	.74	3.46	.63
FORAGE WAGON 14 FT	40	6760.00	1.65	215.09	15.82	26.17	3.86	4.91	6.95	3.96	1.45
FORAGE WAGON 16 FT	40	7303.00	1.65	215.09	16.27	26.93	4.00	4.91	7.41	3.96	1.45