

Corn Silage

Prepared October 2016 for 2017 Growing Season by Ray Massey

Income per acre	Yield	Price	Business unit total
Baleage or silage	tons 18	35.00	630.00
Other income			0.00
Total income per acre			\$630.00
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Operating costs per acre			
Seed, silage variety, units are 50# bags			69.88
Fertilizer			122.35
Nitrogen		46.20	
Phosphorus		25.90	
Potassium		41.25	
Other amendments		9.00	
Crop protection			44.00
Herbicide		44.00	
Insecticide-fungicide		0.00	
Crop supplies, storage			5.00
Crop consulting			0.00
Custom hire and rental			73.50
Machinery fuel and irrigation energy			17.90
Machinery repairs and maintenance			16.05
Operator and hired labor			25.14
Other expense			0.00
Operating interest			10.28
Operating costs per acre			\$384.10
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Ownership costs per acre ¹			
Farm business overhead			4.00
Machinery overhead			26.03
Machinery depreciation			32.85
Real estate charge			132.00
Ownership costs per acre			\$194.88
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Total costs per acre			\$578.97
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Income over operating costs per acre			\$245.90
Income over total costs per acre			\$51.03
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	Operating costs per ton, air-dry basis		\$48.01
	Ownership costs per ton, air-dry basis		\$24.36
	Total costs per ton, air-dry basis		\$72.37

Detailed Report

Establishment year 2017 Corn Silage

10/24/16

Selected input quantities	per acre	Selected input prices	\$ per unit
Forage yield, tons	8.00	Farm diesel, per gallon	2.35
Seeding rate, lbs	0	Operating interest, %	5.50
Nitrogen rate, lbs	140	Nitrogen, per lb	0.33
Phosphorus rate, lbs	70	Phosphorus, per lb	0.37
Potassium rate, lbs	165	Potassium, per lb	0.25
Lime rate, tons	0.5	Lime, per ton	18.00
Sum of allocated labor, hours	1.54	Skilled labor, per hour	18.00
Irrigation, inches	0	Land value, per acre	4,000

Machine activity (not custom)	Labor Hours per acre	Fuel Gallons per acre	Operating Costs ² \$ per acre	Ownership Costs ³ \$ per acre	Total Costs \$ per acre	Trips per acre
Field cultivator (18 ft); 160 MFWD	0.08	0.54	3.33	4.13	7.46	1
Row crop planter (12 row); 130 MFWD	0.07	0.41	3.72	8.52	12.24	1
Boom sprayer (50 ft); 105 TWD	0.08	0.38	3.35	2.67	6.02	2
Anhydrous applicator (21 ft); 160 MFWD	0.09	0.63	3.94	4.77	8.71	1
Silage Chopper, 2 row (5 ft); 160 MFWD	0.73	5.11	36.11	36.52	72.63	1
Pickup truck		0.58	1.89	2.26	4.16	
Total	1.04	7.64	52.34	58.88	111.22	6

¹ Farm business overhead includes liability insurance, utilities, accounting, etc. Machinery overhead is the sum of opportunity interest, property taxes, insurance, and housing. Machinery depreciation is a market value decline due to aging and usage. Thus, a portion of depreciation should be considered an operating costs for some decisions. Real estate charge includes land, improvements, taxes.

Economic costs may differ from rental rates.

² Machinery operating cost is the sum of fuel, repairs, maintenance, and the value of labor.

³ Machinery ownership cost is the sum of machinery overhead and depreciation (see page 1).