

Corn Silage, 2010

Estimated Nov 2009

Yield, tons air-dry: 8.00
 Weighted value per ton, air-dry: \$63.00

Income per acre	Yield	Price	Business unit total
Baleage or silage	tons 18	28.00	504.00
Other income			0.00
Total income per acre			\$504.00

Operating costs per acre			
Seed, silage variety, units are 50# bags			55.25
Fertilizer			85.35
Nitrogen		44.00	
Phosphorus		16.20	
Potassium		21.15	
Other amendments		4.00	
Crop protection			30.50
Herbicide		30.50	
Insecticide-fungicide		0.00	
Crop supplies, storage			1.00
Crop consulting			0.00
Custom hire and rental			68.50
Machinery fuel and irrigation energy			18.91
Machinery repairs and maintenance			14.48
Operator and hired labor			23.09
Other expense			0.00
Operating interest			10.40
Operating costs per acre			\$307.47

Ownership costs per acre ¹			
Farm business overhead			3.60
Machinery overhead			21.41
Machinery depreciation			25.18
Real estate charge			112.60
Ownership costs per acre			\$162.79

Total costs per acre \$470.26

Income over operating costs per acre	\$196.53
Income over total costs per acre	\$33.74

Operating costs per ton, air-dry basis	\$38.43
Ownership costs per ton, air-dry basis	\$20.35
Total costs per ton, air-dry basis	\$58.78

Detailed Report

Establishment year Corn Silage, 2010

Selected input quantities	per acre	Selected input prices	\$ per unit
Forage yield, tons	8.00	Farm diesel, per gallon	2.45
Seeding rate, lbs	0	Operating interest, %	7.00
Nitrogen rate, lbs	100	Nitrogen, per lb	0.44
Phosphorus rate, lbs	60	Phosphorus, per lb	0.27
Potassium rate, lbs	45	Potassium, per lb	0.47
Lime rate, tons	0.5	Lime, per ton	8.00
Sum of allocated labor, hours	1.53	Skilled labor, per hour	17.00
Irrigation, inches	0	Land value, per acre	2,252

Machine activity (not custom)	Labor	Fuel	Operating	Ownership	Total	Trips
	Hours	Gallons	Costs ²	Costs ³	Costs	
	per acre	per acre	\$ per acre	\$ per acre	\$ per acre	per acre
Field cultivator (18 ft); 160 MFWD	0.08	0.54	3.20	3.19	6.39	1
Row crop planter (6 row); 130 MFWD	0.14	0.82	6.08	8.12	14.20	1
Anhydrous applicator (21 ft); 160 MFWD	0.09	0.63	3.88	3.78	7.66	1
Silage Chopper, 2 row (5 ft); 160 MFWD	0.73	5.11	35.31	29.35	64.66	1
Pickup truck		0.58	2.10	2.14	4.25	
Total	1.03	7.67	50.58	46.59	97.16	4

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).