

Alfalfa Establishment, South 2010

Yield, tons air-dry: 2.10
 Weighted value per ton, air-dry: \$133.33

Income per acre	Yield	Price	Business unit total
Hay	60 lb bales	70	4.00
Other income			
Total income per acre			\$280.00

Operating costs per acre			
Seed			52.50
Fertilizer			109.80
Nitrogen		0.00	
Phosphorus		31.50	
Potassium		42.30	
Other amendments		36.00	
Crop protection			16.50
Herbicide		16.50	
Insecticide-fungicide		0.00	
Crop supplies, storage			6.00
Crop consulting			0.00
Custom hire and rental			51.50
Machinery fuel and irrigation energy			17.73
Machinery repairs and maintenance			15.11
Operator and hired labor			34.46
Other expense			0.00
Operating interest			10.63
Operating costs per acre			\$314.22

Ownership costs per acre ¹			
Farm business overhead			2.48
Machinery overhead			19.70
Machinery depreciation			34.32
Real estate charge			67.60
Ownership costs per acre			\$124.10

Total costs per acre **\$438.32**

Income over operating costs per acre	-	\$34.22
Income over total costs per acre	-	\$158.32

Operating costs per ton, air-dry basis	\$149.63
Ownership costs per ton, air-dry basis	\$59.09
Total costs per ton, air-dry basis	\$208.72

Detailed Report

Establishment year Alfalfa Establishment, South 2010

Selected input quantities	per acre	Selected input prices	\$ per unit
Forage yield, tons	2.10	Farm diesel, per gallon	2.45
Seeding rate, lbs	15	Operating interest, %	7.00
Nitrogen rate, lbs	0	Nitrogen, per lb	0.00
Phosphorus rate, lbs	70	Phosphorus, per lb	0.45
Potassium rate, lbs	90	Potassium, per lb	0.47
Lime rate, tons	3	Lime, per ton	12.00
Sum of allocated labor, hours	2.52	Skilled labor, per hour	17.00
Irrigation, inches	0	Land value, per acre	1,690

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
Chisel plow (15 ft); 130 MFWD	0.12	0.67	4.23	5.56	9.79	1
Tandem disk (21 ft); 130 MFWD	0.25	1.40	10.02	9.74	19.76	3
Roller harrow (12 ft); 105 TWD	0.13	0.62	4.06	3.82	7.88	1
No-till drill (15 ft); 130 MFWD	0.16	0.90	7.72	11.75	19.47	1
Disk mower-conditioner (9 ft); 105 TWD	0.35	1.63	12.50	8.06	20.57	2
Wheel rake, V hitch (8 wheel); 60 HP	0.10	0.27	2.25	5.91	8.15	2
Small square baler; 75 HP	0.41	1.34	13.30	7.45	20.75	2
Pickup truck		0.37	1.43	1.71	3.14	
Total	1.52	7.21	55.50	54.02	109.51	12

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).