

Alfalfa Estab

Prepared October 2016 for 2017 Growing Season by Ray Massey

		Yield	Price	Business unit total
Income per acre				
Hay	60 lb bales	70	6.00	420.00
Other income				0.00
Total income per acre				\$420.00
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Operating costs per acre				
Seed				71.25
Fertilizer				102.40
Nitrogen			0.00	
Phosphorus			25.90	
Potassium			22.50	
Other amendments			54.00	
Crop protection				21.00
Herbicide			21.00	
Insecticide-fungicide			0.00	
Crop supplies, storage				7.00
Crop consulting				0.00
Custom hire and rental				42.00
Machinery fuel and irrigation energy				17.42
Machinery repairs and maintenance				15.58
Operator and hired labor				37.39
Other expense				0.00
Operating interest				8.64
Operating costs per acre				\$322.68
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Ownership costs per acre ¹				
Farm business overhead				4.38
Machinery overhead				21.37
Machinery depreciation				38.33
Real estate charge				79.20
Ownership costs per acre				\$143.28
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Total costs per acre				\$465.96
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Income over operating costs per acre				\$97.32
Income over total costs per acre				-\$45.96
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	Operating costs per ton, air-dry basis			\$153.66
	Ownership costs per ton, air-dry basis			\$68.23
	Total costs per ton, air-dry basis			\$221.88

Detailed Report

Establishment year 2017 Alfalfa Estab

10/24/16

Selected input quantities	per acre	Selected input prices	\$ per unit
Forage yield, tons	2.10	Farm diesel, per gallon	2.35
Seeding rate, lbs	15	Operating interest, %	5.50
Nitrogen rate, lbs	0	Nitrogen, per lb	0.00
Phosphorus rate, lbs	70	Phosphorus, per lb	0.37
Potassium rate, lbs	90	Potassium, per lb	0.25
Lime rate, tons	3	Lime, per ton	18.00
Sum of allocated labor, hours	2.48	Skilled labor, per hour	18.00
Irrigation, inches	0	Land value, per acre	2,400

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
Chisel plow (15 ft); 130 MFWD	0.12	0.67	4.38	6.77	11.15	1
Tandem disk (21 ft); 130 MFWD	0.25	1.40	10.45	12.11	22.57	3
Roller harrow (12 ft); 105 TWD	0.13	0.65	4.47	5.49	9.96	1
No-till drill (20 ft); 130 MFWD	0.12	0.67	6.05	11.26	17.31	1
Disk mower-conditioner (9 ft); 105 TWD	0.35	1.71	13.31	10.82	24.13	2
Wheel rake, V hitch (8 wheel); 60 HP	0.10	0.27	2.26	2.12	4.37	2
Small square baler; 75 HP	0.41	1.34	13.61	8.31	21.92	2
Pickup truck		0.72	2.37	2.83	5.19	
Total	1.48	7.44	56.89	59.70	116.60	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).