

Fescue-Clover Hay

Prepared October 2016 for 2017 Growing Season by Ray Massey

		Yield	Price	Business unit total
Income per acre				
Hay	1400 lb bales	4.1	49.00	200.90
Grazing	AUMs	1	12.50	12.50
Other income				0.00
Total income per acre				\$213.40
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Operating costs per acre				
Seed				0.00
Fertilizer				54.22
Nitrogen			13.20	
Phosphorus			17.02	
Potassium			15.00	
Other amendments			9.00	
Crop protection				0.00
Herbicide			0.00	
Insecticide-fungicide			0.00	
Crop supplies, storage				9.00
Crop consulting				0.00
Custom hire and rental				19.33
Machinery fuel and irrigation energy				5.70
Machinery repairs and maintenance				4.30
Operator and hired labor				10.07
Other expense				0.00
Operating interest				2.82
Operating costs per acre				\$105.44
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Ownership costs per acre ¹				
Farm business overhead				3.50
Machinery overhead				9.80
Machinery depreciation				12.78
Real estate charge				36.10
Ownership costs per acre				\$62.18
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Total costs per acre				\$167.61
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Income over operating costs per acre				\$107.96
Income over total costs per acre				\$45.79
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	Operating costs per ton, air-dry basis			\$35.03
	Ownership costs per ton, air-dry basis			\$20.66
	Total costs per ton, air-dry basis			\$55.69

Detailed Report

Production 2017 Fesc-Clover Hay

10/24/16

Selected input quantities	per acre	Selected input prices	\$ per unit
Forage yield, tons	3.01	Farm diesel, per gallon	2.35
Seeding rate, lbs	0	Operating interest, %	5.50
Nitrogen rate, lbs	40	Nitrogen, per lb	0.33
Phosphorus rate, lbs	46	Phosphorus, per lb	0.37
Potassium rate, lbs	60	Potassium, per lb	0.25
Lime rate, tons	0.5	Lime, per ton	18.00
Sum of allocated labor, hours	0.63	Skilled labor, per hour	18.00
Irrigation, inches	0	Land value, per acre	1,900

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
Disk mower-conditioner (9 ft); 130 MFWD	0.18	1.01	6.99	8.36	15.35	1
Wheel rake, V hitch (8 wheel); 75 HP	0.05	0.17	1.24	1.59	2.83	1
Round baler, net wrap (1500 lb); 130 MFWD	0.16	0.90	7.28	11.21	18.49	1
Pickup truck		0.36	1.18	1.41	2.60	
Total	0.38	2.44	16.69	22.58	39.27	3

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).