

Enterprise Budget

10/31/2018

2019 Alfalfa Baleage

Production

Owned land

Dryland

Yield, tons air-dry: 5.00
Weighted value per ton, air-dry: \$180.00

Income per acre	Yield	Price	Business unit total
Baleage or silage	tons 9	100.00	900.00
Other income			0.00
Total income per acre			\$900.00

Operating costs per acre

Seed			0.00
Fertilizer			89.40
Nitrogen		0.00	
Phosphorus		29.40	
Potassium		60.00	
Other amendments		0.00	
Crop protection			7.50
Herbicide		0.00	
Insecticide-fungicide		7.50	
Crop supplies, storage			100.00
Crop consulting			0.00
Custom hire and rental			49.00
Machinery fuel and irrigation energy			38.21
Machinery repairs and maintenance			48.41
Operator and hired labor			56.19
Other expense			0.00
Operating interest			11.66
Operating costs per acre			\$400.37

Ownership costs per acre¹

Farm business overhead			8.75
Machinery overhead			28.76
Machinery depreciation			59.24
Real estate charge			91.00
Ownership costs per acre			\$187.75

Total costs per acre

\$588.12

Income over operating costs per acre	\$499.63
Income over total costs per acre	\$311.88

Operating costs per ton, air-dry basis	\$80.07
Ownership costs per ton, air-dry basis	\$37.55
Total costs per ton, air-dry basis	\$117.62

Detailed Report

Production 2019 Alfalfa Baleage

10/31/18

Selected input quantities	per acre	Selected input prices	\$ per unit
Forage yield, tons	5.00	Farm diesel, per gallon	2.86
Seeding rate, lbs	0	Operating interest, %	6.00
Nitrogen rate, lbs	0	Nitrogen, per lb	0.00
Phosphorus rate, lbs	70	Phosphorus, per lb	0.42
Potassium rate, lbs	200	Potassium, per lb	0.30
Lime rate, tons	0	Lime, per ton	0.00
Sum of allocated labor, hours	3.68	Skilled labor, per hour	18.00
Irrigation, inches	0	Land value, per acre	2,600

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
Boom sprayer (90 ft); 105 TWD	0.02	0.11	1.17	2.20	3.37	1
Disk mower-conditioner (9 ft); 105 TWD	0.71	3.41	28.61	18.18	46.79	4
Wheel rake (2-16'); 75 HP	0.15	0.50	5.26	6.90	12.15	4
Round baler, silage kit (1500 lb); 105 TWD	0.71	3.41	33.77	28.04	61.81	4
Rd bale wrapper haylage; 75 HP	1.50	4.95	61.33	26.07	87.40	1
Pickup truck		1.04	4.57	6.62	11.19	
Total	3.08	13.43	134.71	88.00	222.71	14

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).