

## Enterprise Budget

10/19/2017

### Grain sorghum

Sorghum 2018

Dryland

Owned land

	Units	Yield	Price	<b>Business total</b>
Income per acre				
Primary crop	bushels	85	3.30	280.50
By product crop	bushels	0	0.00	0.00
Net payments (fixed)				0.00
Other income				0.00
<b>Total income per acre</b>				<b>\$280.50</b>

### Operating costs per acre

Seed				13.20
Fertilizer				51.05
Nitrogen			21.25	
Phosphorus			13.39	
Potassium			6.41	
Other soil amendments			10.00	
Crop protection				30.00
Herbicide			30.00	
Insect-fungicide			0.00	
Crop supplies, storage, and marketing				1.00
Crop consulting and insurance				14.00
Custom hire and rental				6.00
Machinery fuel, drying, and irrigation energy				10.76
Machinery repairs and maintenance				11.02
Operator and hired labor				12.57
Other expense				0.00
Operating interest				4.11
<b>Operating costs per acre</b>				<b>\$153.71</b>

### Ownership costs per acre<sup>1</sup>

Farm business overhead				2.83
Machinery overhead				21.59
Machinery depreciation				23.41
Real estate charge				115.50
<b>Ownership costs per acre</b>				<b>\$163.34</b>

### Total costs per acre

**\$317.05**

Income over operating costs per acre	126.79
Income over total costs per acre	-36.55

Operating costs per bushel	1.81
Ownership costs per bushel	1.92
Total costs per bushel	3.73

## Detailed Report

Grain sorghum

Gr Sorghum 2018

10/19/2017

Selected input quantities	per acre	Selected input prices	\$ per unit
Yield, bushels	85.0	Farm diesel, per gallon	2.37
Seeding rate, count	90,000	Operating interest, %	5.50
Nitrogen rate, lbs	85	Nitrogen, per lb	0.25
Phosphorus rate, lbs	38.25	Phosphorus, per lb	0.35
Potassium rate, lbs	24.65	Potassium, per lb	0.26
Lime rate, tons	0.5	Lime, per ton	20.00
Sum of allocated labor, hours	0.84	Skilled labor, per hour	18.00
Irrigation, inches	0	Land value, per acre	3,500

Machine activity (not custom)	Labor Hours per acre	Fuel Gallons per acre	Operating Costs <sup>2</sup> \$ per acre	Ownership Costs <sup>3</sup> \$ per acre	Total Costs \$ per acre	Trips per acre
V-Ripper 30" O.C., (17 ft); 360 4WD	0.03	0.45	1.87	5.72	7.59	0.3
Split row no-till planter (16/31 row 30/15"); 225 MFWD	0.05	0.53	4.43	11.78	16.20	1
Boom sprayer (90 ft); 130 MFWD	0.04	0.25	2.35	3.90	6.25	2
Anhydrous applicator (21 ft); 225 MFWD	0.09	0.88	4.70	6.83	11.53	1
Combine, fixed grain head (30 ft); 275 HP Comb.	0.07	0.91	7.25	8.86	16.11	1
Grain cart (500 bushel); 225 MFWD	0.04	0.37	1.80	2.63	4.43	
Grain auger 10 in- 5000 bu/hr (70 ft); 130 MFWD	0.02	0.10	0.58	0.60	1.18	
Semi, tractor and trailer		0.49	2.60	2.02	4.62	
Pickup truck		0.58	2.04	2.67	4.70	
<b>Total</b>	<b>0.34</b>	<b>4.55</b>	<b>27.60</b>	<b>45.00</b>	<b>72.61</b>	<b>5.3</b>

<sup>1</sup> 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.

<sup>2</sup> Machinery operating cost is the sum of fuel, repairs, maintenance, and the value of labor.

<sup>3</sup> Machinery ownership cost is the sum of machinery overhead and depreciation (see page 1).