

Grain sorghum

Gr Sorghum 2010

	Units	Yield	Price	Business total
Income per acre				
Primary crop	bushels	110	3.40	374.00
By product crop	bushels	0	0.00	0.00
Net payments (fixed)				14.15
Other income				0.00
Total income per acre				\$388.15
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Operating costs per acre				
Seed, Cruiser/Gaucht type tech				27.36
Fertilizer				80.30
Nitrogen			44.00	
Phosphorus			13.50	
Potassium			18.80	
Other soil amendments			4.00	
Crop protection				20.70
Herbicide			20.70	
Insect-fungicide			0.00	
Crop supplies, storage, and marketing				1.00
Crop consulting and insurance				0.00
Custom hire and rental				9.50
Machinery fuel, drying, and irrigation energy				10.15
Machinery repairs and maintenance				12.35
Operator and hired labor				10.64
Other expense				0.00
Operating interest				6.02
Operating costs per acre				\$178.02
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Ownership costs per acre ¹				
Farm business overhead				3.84
Machinery overhead				18.90
Machinery depreciation				19.68
Real estate charge				87.00
Ownership costs per acre				\$129.43
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Total costs per acre				\$307.45
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Income over operating costs per acre				210.13
Income over total costs per acre				80.70
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	Operating costs per bushel			1.62
	Ownership costs per bushel			1.18
	Total costs per bushel			2.79

Detailed Report

Grain sorghum

Gr Sorghum 2010

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Selected input quantities	per acre	Selected input prices	\$ per unit
Yield, bushels	110.0	Farm diesel, per gallon	2.45
Seeding rate, count	90,000	Operating interest, %	7.00
Nitrogen rate, lbs	100	Nitrogen, per lb	0.44
Phosphorus rate, lbs	50	Phosphorus, per lb	0.27
Potassium rate, lbs	40	Potassium, per lb	0.47
Lime rate, tons	0.5	Lime, per ton	8.00
Sum of allocated labor, hours	0.82	Skilled labor, per hour	17.00
Irrigation, inches	0	Land value, per acre	1,740

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
Field cultivator (35 ft); 310 4WD	0.04	0.54	2.71	3.59	6.30	1
V-Ripper 30" O.C., (17 ft); 310 4WD	0.03	0.39	1.68	4.17	5.85	0.3
Split row no-till planter (16/31 row 30/15"); 200 MFWD	0.05	0.47	4.21	10.19	14.40	1
Boom sprayer, self propelled (60 ft);	0.03	0.00	1.96	3.20	5.16	1
Combine, fixed grain head (30 ft); 275 HP Comb.	0.10	1.19	9.56	11.16	20.72	1
Grain cart (500 bushel); 200 MFWD	0.05	0.43	2.18	2.23	4.41	
Grain auger 10 in- 5000 bu/hr (70 ft); 130 MFWD	0.02	0.13	0.72	0.67	1.39	
Semi, tractor and trailer		0.52	2.78	1.86	4.64	
Pickup truck		0.38	1.44	1.51	2.95	
Total	0.32	4.05	27.24	38.59	65.83	4.3

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).