

Grain Sorghum, Silage, No-Till Establishment
Estimated Expenses per Acre

Item	Description	Unit	Quantity	Price	Amount (\$/acre)	Your Farm
Variable Expenses						
Seed ¹	Grain Sorghum	lb	12.00	\$ 1.20	\$ 14.40	_____
Fertilizer	N	lb	90.00	\$ 0.48	\$ 43.20	_____
	P2O5	lb	60.00	\$ 0.34	\$ 20.40	_____
	K2O	lb	120.00	\$ 0.23	\$ 27.60	_____
	Custom Application	acre	1.00	\$ 5.00	\$ 5.00	_____
Lime ²	Custom Application	ton	0.50	\$ 21.00	\$ 10.50	_____
Weed Control Burndown	Gramoxone Max	pt	1.50	\$ 4.91	\$ 7.37	_____
	Surfactant	pt	0.50	\$ 1.63	\$ 0.82	_____
	Custom Application	acre	1.00	\$ 5.00	\$ 5.00	_____
Pre-Emerge	Bicep II Magnum	pt	3.60	\$ 5.65	\$ 20.34	_____
	Atrazine, 4L	pt	0.40	\$ 1.26	\$ 0.50	_____
Machinery						
Fuel		acre	1.00	\$ 11.21	\$ 11.21	_____
Oil & Filter		acre	1.00	\$ 1.68	\$ 1.68	_____
Repairs & Maintenance		acre	1.00	\$ 11.67	\$ 11.67	_____
Interest on Operating Capital 6 Months		acre	\$ 179.69	8.0%	\$ 7.19	_____
				Total Variable Expenses	\$ 186.87	_____
Fixed Expenses						
Machinery						
Depreciation		acre	1.00	\$ 9.89	\$ 9.89	_____
Interest		acre	1.00	\$ 11.40	\$ 11.40	_____
Housing & Insurance		acre	1.00	\$ 0.98	\$ 0.98	_____
				Total Fixed Expenses	\$ 22.28	_____
Labor Expenses						
Labor ³		hour	1.73	\$ 8.50	\$ 14.74	_____
				Total Budgeted Expenses	\$ 223.89	_____

Footnotes:

¹Use tall, high-grain-yielding varieties (performer 1330) that are herbicide-tolerant.

²Lime is applied at the rate of 2 tons every 4 years.

³Labor expense is \$8.50 per hour, including wages, Social Security and Medicaid taxes and payroll administration costs.

**Grain Sorghum, Silage, No-Till Establishment
Estimated Expenses per Acre**

Month	Operation	Power Unit	Implement	Hours per Acre	
				Machine	Labor
Jun	Burndown (Gramoxone Max)	Custom	Custom	---	---
Jun	Fertilize & Lime	Custom	Custom	---	---
Jun	Plant	Tractor, 100 hp	No-Till Corn Planter, 4-row	0.26	0.33
Jun	Pre-Emerge (Bicep II Magnum)	Custom	Custom	---	---
Sep	Chop	Tractor, 100 hp	Forage Chopper Corn Header, 2-row Forage Wagon #1	0.56	0.70
Sep	Haul	Tractor, 70 hp	Forage Wagon #2	0.28	0.35
Sep	Store	Tractor, 70 hp	Forage Blower	0.28	0.35
				Total	1.73

Estimated Machinery Expenses per Acre

Machine	Hours per Acre	Variable Cost			Total Variable Costs	Fixed Cost			Total Fixed Costs
		Fuel	Oil & Filter	Repairs		Depreciation	Interest	Housing & Insurance	
Tractor, 100 hp	0.83	7.59	1.14	3.05	11.79	2.21	2.77	0.07	5.06
Tractor, 70 hp	0.56	3.61	0.54	1.19	5.35	0.72	0.86	0.04	1.62
Forage Chopper	0.56	0.00	0.00	3.03	3.03	1.50	1.72	0.16	3.38
Corn Header, 2-row	0.56	0.00	0.00	1.02	1.02	1.01	0.70	0.10	1.81
No-Till Corn Planter, 4-row	0.26	0.00	0.00	0.87	0.87	0.77	1.27	0.13	2.16
Forage Wagon #1	0.56	0.00	0.00	1.52	1.52	2.27	2.52	0.30	5.09
Forage Wagon #2	0.28	0.00	0.00	0.76	0.76	1.14	1.26	0.15	2.55
Forage Blower	0.28	0.00	0.00	0.24	0.24	0.27	0.30	0.03	0.61
Total		\$ 11.21	\$ 1.68	\$ 11.67	\$ 24.56	\$ 9.89	\$ 11.40	\$ 0.98	\$ 22.28
Total Machinery Cost									\$ 46.84

Break-even Analysis

		<u>Yield/Acre</u>		<u>Break-even</u>
				<u>Price/Ton</u>
Break-even Price over Total Variable Expenses:	Below-Average Yield	4.0	tons	\$ 46.72
	Average Yield	8.0	tons	\$ 23.36
	Above-Average Yield	12.0	tons	\$ 15.57
Break-even Price over Total Budgeted Expenses:	Below-Average Yield	4.0	tons	\$ 55.97
	Average Yield	8.0	tons	\$ 27.99
	Above-Average Yield	12.0	tons	\$ 18.66