

**Summer Annuals, Hay, No-Till Establishment  
Estimated Expenses per Acre**

Item	Description	Unit	Quantity	Price	Amount (\$/acre)	Your Farm
<b>Variable Expenses</b>						
Seed <sup>1</sup>	Sorghum-Sudan Hybrid	lb	35.00	\$ 0.35	\$ 12.25	_____
Fertilizer <sup>2</sup>	N	lb	120.00	\$ 0.48	\$ 57.60	_____
	P2O5	lb	30.00	\$ 0.34	\$ 10.20	_____
	K2O	lb	60.00	\$ 0.23	\$ 13.80	_____
	Custom Application	acre	2.00	\$ 5.00	\$ 10.00	_____
Lime <sup>3</sup>	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	_____
Post-Emerge	2,4-D Amine	pt	2.00	\$ 2.05	\$ 4.10	_____
	Custom Application	acre	1.00	\$ 5.00	\$ 5.00	_____
Twine		bale	6.00	\$ 0.24	\$ 1.43	_____
Machinery						
Fuel		acre	1.00	\$ 23.21	\$ 23.21	_____
Oil & Filter		acre	1.00	\$ 3.48	\$ 3.48	_____
Repairs & Maintenance		acre	1.00	\$ 28.73	\$ 28.73	_____
Interest on Operating Capital	6 Months	acre	\$ 193.48	8.0%	\$ 7.74	_____
<b>Total Variable Expenses</b>					\$ 201.22	_____
<b>Fixed Expenses</b>						
Machinery						
Depreciation		acre	1.00	\$ 13.63	\$ 13.63	_____
Interest		acre	1.00	\$ 17.62	\$ 17.62	_____
Housing & Insurance		acre	1.00	\$ 1.56	\$ 1.56	_____
<b>Total Fixed Expenses</b>					\$ 32.81	_____
<b>Labor Expenses</b>						
Labor <sup>4</sup>		hour	4.51	\$ 8.50	\$ 38.30	_____
<b>Total Budgeted Expenses</b>					\$ 272.33	_____

**Footnotes:**

<sup>1</sup>Pearlmillet and sudangrass may also be used for hay.

<sup>2</sup>60 lbs of nitrogen applied at seeding, remainder applied following first cutting of hay, assuming seed is planted before June 20.

<sup>3</sup>Lime is applied at the rate of 2 tons every 4 years.

<sup>4</sup>Labor expense is \$8.50 per hour, including wages, Social Security and Medicaid taxes and payroll administration costs.

**Summer Annuals, Hay, No-Till Establishment  
Estimated Machinery and Labor Requirements per Acre**

Month	Operation	Power Unit	Implement	Hours per Acre	
				Machine	Labor
May	Burndown (Gramoxone Max)	Custom	Custom	---	---
May	Fertilize & Lime	Custom	Custom	---	---
May	Plant	Tractor, 70 hp	No-Till Drill, 10'	0.47	0.59
Jun	Post-Emerge (2-4,D Amine)	Custom	Custom	---	---
Jul	Mow	Tractor, 70 hp	Mower-Conditioner, 9'	0.37	0.46
Jul	Tedder, 10', 2X	Tractor, 70 hp	Tedder, 10'	0.20	0.25
Jul	Rake	Tractor, 70 hp	Rake, 18'	0.19	0.24
Jul	Bale	Tractor, 70 hp	Baler, Round, 5 x 4	0.40	0.50
Jul	Stack & Move	Tractor, 70 hp	Front-End Loader/Spear	0.40	0.50
Jul	Fertilize	Custom	Custom	---	---
Sep	Mow	Tractor, 70 hp	Mower-Conditioner, 9'	0.37	0.46
Sep	Tedder, 10', 2X	Tractor, 70 hp	Tedder, 10'	0.20	0.25
Sep	Rake	Tractor, 70 hp	Rake, 18'	0.19	0.24
Sep	Bale	Tractor, 70 hp	Baler, Round, 5 x 4	0.40	0.50
Sep	Stack & Move	Tractor, 70 hp	Front-End Loader/Spear	0.40	0.50
<b>Total</b>				<b>4.51</b>	<b>4.51</b>

**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, 70 hp	3.60	23.21	3.48	7.65	34.34	4.63	5.50	0.41	10.54
No-Till Drill, 10'	0.47	0.00	0.00	5.05	5.05	1.91	3.15	0.24	5.30
Mower-Conditioner, 9'	0.74	0.00	0.00	3.76	3.76	2.03	3.31	0.27	5.62
Tedder, 10'	0.40	0.00	0.00	0.22	0.22	0.17	0.27	0.08	0.52
Rake, 18'	0.38	0.00	0.00	0.27	0.27	0.22	0.25	0.07	0.54
Baler, Round, 5 x 4	0.81	0.00	0.00	10.72	10.72	3.48	3.82	0.38	7.68
Front-End Loader/Spear	0.81	0.00	0.00	1.07	1.07	1.19	1.32	0.10	2.61
<b>Total</b>		<b>\$ 23.21</b>	<b>\$ 3.48</b>	<b>\$ 28.73</b>	<b>\$ 55.42</b>	<b>\$ 13.63</b>	<b>\$ 17.62</b>	<b>\$ 1.56</b>	<b>\$ 32.81</b>
<b>Total Machinery Cost</b>									<b>\$ 88.23</b>

**Break-even Analysis**

		Yield/Acre		Break-even
				Price/Ton
Break-even Price over Total Variable Expenses:	Below-Average Yield	1.5	tons	\$ 134.15
	Average Yield	3.0	tons	\$ 67.07
	Above-Average Yield	4.5	tons	\$ 44.72
Break-even Price over Total Budgeted Expenses:	Below-Average Yield	1.5	tons	\$ 181.55
	Average Yield	3.0	tons	\$ 90.78
	Above-Average Yield	4.5	tons	\$ 60.52