

Forage Establishment, Projected Budgets for 2011

	Alfalfa	Bermuda- grass, seeded	Caucasian bluestem	Cool season Grass-Clover
<i>Yield/acre, air-dry basis*</i>	2.10 tons	0	0	0.83 tons
<i>Value/ton, air-dry</i>	\$143.33			\$19.39
ESTIMATED INCOME/ACRE				
Hay	\$301.00	--	--	--
Grazing	--	--	--	\$ 16.00
ESTIMATED TOTAL INCOME/ACRE	\$301.00	--	--	\$16.00
ESTIMATED OPERATING COSTS/ACRE				
Seed	\$ 52.50	\$ 48.00	\$ 45.60	\$ 26.50
Fertilizer and soil amendments	121.60	128.80	107.80	75.10
Crop protection chemicals	16.50	21.79	20.95	8.00
Crop supplies	6.00	2.00	2.00	1.00
Custom hire and rental	62.00	--	--	22.00
Machinery fuel	20.11	14.17	13.51	6.08
Machinery repairs and maintenance	15.95	10.00	9.71	2.72
Operator and hired labor	34.75	24.28	17.77	10.19
Operating interest	10.70	8.09	7.07	4.93
Total Operating Costs/Acre	\$340.11	\$257.13	\$224.41	\$156.52
ESTIMATED OWNERSHIP COSTS/ACRE				
Farm business overhead	\$ 3.88	\$ 3.88	\$ 3.88	\$ 2.70
Machinery overhead	19.65	14.07	14.07	6.37
Machinery depreciation	33.22	21.84	22.22	6.72
Real estate charge	64.60	64.60	28.60	28.60
Total Ownership Costs/Acre	\$121.35	\$104.39	\$ 68.77	\$ 44.39
ESTIMATED TOTAL COSTS/ACRE	\$461.46	\$361.52	\$293.18	\$200.91
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Value over Operating Costs/Acre	-\$39.11	-\$257.13	-\$224.41	-\$140.52
Value over Total Costs/Acre	-\$160.46	-\$361.52	-\$293.18	-\$184.91
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Operating costs/ton, air-dry	\$161.96		\$149.63	\$189.72
Total costs per/ton, air-dry	\$219.74		\$ 59.09	\$243.52

* Air-dry basis is hay equivalent moisture, or 90% dry matter.

Check for updates and the FBG budget calculator at <http://www.fapri.missouri.edu>

Prepared by Brent Carpenter and Melvin Brees, FAPRI Missouri.

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Pasture, Projected Budgets for 2011

	Fescue-Clover (graze)	Crabgrass (graze)	Fescue Seed + stubble hay
<i>Yield/acre, air-dry basis*</i>	<i>2.68 tons</i>	<i>3.21 tons</i>	<i>2.81 tons</i>
<i>Weighted value/ton, air-dry</i>	<i>\$19.39</i>	<i>\$41.21</i>	
ESTIMATED VALUE/ACRE			
Hay	--		\$ 80.00
Grazing	\$52.00	\$132.09	8.00
Seed	--		60.00
ESTIMATED TOTAL VALUE/ACRE	\$52.00	\$132.09	\$148.00
ESTIMATED OPERATING COSTS/ACRE			
Seed	\$ 5.00	--	--
Fertilizer and soil amendments	23.40	\$54.00	\$ 90.20
Crop protection chemicals	3.00	3.75	--
Custom hire and rental	4.75	9.50	27.00
Machinery fuel	1.36	3.60	7.37
Machinery repairs and maintenance	.71	2.02	5.96
Operator and hired labor	2.30	4.51	12.72
Operating interest	1.34	2.54	4.77
Total Operating Costs/Acre	\$42.86	\$80.92	\$151.62
ESTIMATED OWNERSHIP COSTS/ACRE			
Farm business overhead	\$ 2.25	\$ 4.50	\$ 2.07
Machinery overhead	4.20	3.63	9.52
Machinery depreciation	1.74	4.14	11.37
Real estate charge	28.60	28.60	28.60
Total Ownership Costs/Acre	\$ 36.79	\$ 40.87	\$ 51.56
ESTIMATED TOTAL COSTS/ACRE	\$79.65	\$121.79	\$203.18
Value over Operating Costs/Acre	\$ 9.14	\$51.17	-\$ 3.62
Value over Total Costs/Acre	-\$27.65	\$10.30	- \$55.18
Operating costs/ton, air-dry*	\$15.99	\$25.21	
Total costs/ton, air-dry*	\$29.72	\$37.94	

*Air-dry basis is hay equivalent moisture, or 90% dry matter.

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Hay, Projected Budgets for 2011

	Alfalfa Sm. sq. bales	Bermudagrass Sm. sq. bales	Cau. Bluestem Lg. round bales	Fescue Lg. round bales
<i>Yield/acre, air-dry basis*</i>	<i>5 tons</i>	<i>6 tons</i>	<i>3.5 tons</i>	<i>2.93 tons</i>
<i>Weighted value/ton, air-dry</i>	<i>\$144.00</i>	<i>\$133.33</i>	<i>\$64.29</i>	<i>\$54.29</i>
ESTIMATED VALUE/ACRE				
Hay	\$720.00	\$800.00	\$225.00	151.20
Grazing	--	--	--	8.00
EST. TOTAL VALUE/ACRE	\$720.00	\$800.00	\$225.00	\$159.20
ESTIMATED OPERATING COSTS/ACRE				
Seed	--	--	--	--
Fertilizer and soil amendments	\$133.50	\$253.80	\$122.70	\$73.82
Crop protection chemicals	6.50	--	--	--
Crop supplies	9.00	12.00	5.60	7.00
Custom hire and rental	109.50	120.00	11.25	12.85
Machinery fuel	21.93	21.37	12.11	6.43
Machinery repairs and maintenance	14.73	14.83	9.06	4.44
Operator and hired labor	39.01	34.74	17.09	9.31
Operating interest	10.86	14.85	5.78	3.70
Total Operating Costs/Acre	\$345.03	\$471.59	\$183.59	\$117.55
ESTIMATED OWNERSHIP COSTS/ACRE				
Farm business overhead	\$ 5.43	\$ 5.43	\$ 5.43	\$ 3.15
Machinery overhead	9.61	8.34	10.57	9.10
Machinery depreciation	31.10	31.22	22.18	11.58
Real estate charge	64.60	65.20	28.60	29.40
Total Ownership Costs/Acre	\$110.74	\$110.19	\$ 66.78	\$ 53.23
EST. TOTAL COSTS/ACRE	\$455.77	\$581.78	\$250.37	\$170.78
Value over Operating Costs/Acre	\$374.97	\$328.41	\$ 41.41	\$ 41.65
Value over Total Costs/Acre	\$264.23	\$218.22	- \$25.37	-\$ 11.58
Operating costs/ton, air-dry*	\$ 69.01	\$78.60	\$52.45	\$40.12
Total costs/ton, air-dry*	\$91.15	\$96.96	\$71.53	\$58.29

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Silage and Baleage Projected Budgets for 2011

	Corn Silage	Alfalfa Baleage	Cool-season Baleage
<i>Yield/acre, air-dry basis*</i>	<i>8 tons</i>	<i>5.25 tons</i>	<i>3.5 tons</i>
<i>Value/ton, air-dry</i>	<i>\$72.00</i>	<i>\$140.00</i>	<i>\$66.00</i>
ESTIMATED VALUE/ACRE			
Silage/baleage	<u>\$576.00</u>	<u>\$735.00</u>	<u>\$231.00</u>
ESTIMATED TOTAL VALUE/ACRE	\$576.00	\$735.00	\$231.00
ESTIMATED OPERATING COSTS/ACRE			
Seed	\$ 58.55	--	--
Fertilizer and soil amendments	102.55	\$133.50	\$ 73.82
Crop protection chemicals	30.50	6.50	--
Crop supplies	1.00	84.50	67.50
Custom hire and rental	68.50	38.38	24.00
Machinery fuel	20.80	34.98	21.68
Machinery repairs and maintenance	15.40	44.17	27.04
Operator and hired labor	23.29	52.69	23.13
Operating interest	<u>10.41</u>	<u>12.83</u>	<u>7.70</u>
Total Operating Costs/Acre	\$330.95	\$407.55	\$244.87
ESTIMATED OWNERSHIP COSTS/ACRE			
Farm business overhead	\$ 3.60	\$ 5.43	\$ 6.30
Machinery overhead	22.44	26.01	27.88
Machinery depreciation	23.35	45.94	24.40
Real estate charge	<u>133.51</u>	<u>65.20</u>	<u>--</u>
Total Ownership Costs/Acre	\$185.90	\$142.58	\$58.58
ESTIMATED TOTAL COSTS/ACRE	\$516.85	\$550.13	\$303.45
Value over Operating Costs/Acre	\$245.05	\$327.45	-\$13.87
Value over Total Costs/Acre	\$ 59.19	\$184.87	-\$72.45
Operating costs/ton, air-dry*	\$ 41.37	\$ 77.63	\$69.96
Total costs/ton, air-dry*	\$ 64.61	\$104.79	86.70

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Switchgrass for Biofuel Projected Budgets for Crop Established in 2011

	Establishment		Full Production
	Year 1	Year 2	Year 3
<i>Yield/acre, air-dry basis*</i>	0	3 tons	4.5 tons
<i>Weighted value/ton, air-dry</i>		\$45.00	\$45.00
ESTIMATED VALUE/ACRE			
Harvest as large square bales		\$135.00	\$202.50
ESTIMATED TOTAL VALUE/ACRE	0	\$135.00	\$202.50
ESTIMATED OPERATING COSTS/ACRE			
Seed	\$ 98.00	--	--
Fertilizer and soil amendments	69.20	\$80.10	\$118.92
Crop protection chemicals	18.95	7.95	--
Crop supplies	2.00	15.00	22.50
Custom hire and rental	13.00	29.00	32.00
Machinery fuel	11.98	6.47	6.47
Machinery repairs and maintenance	8.19	4.07	4.07
Operator and hired labor	13.92	8.77	8.75
Operating interest @ 6.5% x ½ year	7.64	4.92	6.26
Total Operating Costs/Acre	\$242.88	\$156.28	\$198.97
ESTIMATED OWNERSHIP COSTS/ACRE			
Farm business overhead	\$ 3.88	\$ 3.88	\$ 3.88
Machinery overhead	12.52	9.49	9.49
Machinery depreciation	16.81	11.18	11.18
Real estate charge	28.60	28.60	28.60
Total Ownership Costs/Acre	\$ 61.81	\$ 53.15	\$ 53.15
ESTIMATED TOTAL COSTS/ACRE	\$304.69	\$209.43	\$252.12
Value over Operating Costs/Acre	- \$242.88	- \$ 21.28	\$ 3.53
Value over Total Costs/Acre	- \$304.69	- \$ 74.43	- \$ 49.62
Operating costs/ton, air-dry*		\$52.09	\$44.22
Total costs/ton, air-dry*		\$69.81	\$56.03

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