

Costs and Returns per acre from growing alfalfa hay, 2006
Box Elder County

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Alfalfa hay	6.0	tons	\$88.57	\$531.40	\$531.40	
Residue	-	AUM	\$0.00	\$0.00	\$0.00	
	Subtotal			\$531.40	\$531.40	
Operating costs						
Fertilization						
Phosphate (11-52-0)	96	pounds	\$0.18	\$17.14	\$17.14	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
Furadan	1	pint	\$10.50	\$10.50	\$10.50	
Velpar	2	quart	\$16.50	\$33.00	\$33.00	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (siphon)						
Labor	2.33	hours	\$10.00	\$23.33	\$23.33	
Water assessment	1	share	\$10.00	\$10.00	\$10.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	-	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	4	acre	\$4.03	\$16.14	\$16.14	
Turning/raking	4	acre	\$1.39	\$5.57	\$5.57	
Baling	6	tons	\$4.79	\$28.74	\$28.74	
Hauling/stacking	6.0	tons	\$3.63	\$21.78	\$21.78	
Crop insurance (75% Yield, 100% Price)	1	acre	\$24.22	\$24.22	\$24.22	
Interest on operating capital			7.61%	\$5.42	\$5.42	
	Subtotal			\$213.77	\$213.77	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$58.85	\$58.85	\$58.85	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$282.87	\$282.87	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$317.63	\$317.63	
Above total listed costs				\$248.53	\$248.53	

Breakeven Table - Alfalfa Hay

Net returns per acre above operating costs

Yield (Ton/Ac)	Selling Price (\$/ton)				
	\$78.57	\$83.57	\$88.57	\$93.57	\$98.57
5.25	\$205.02	\$231.27	\$257.52	\$283.77	\$310.02
5.50	\$222.56	\$250.06	\$277.56	\$305.06	\$332.56
5.75	\$240.09	\$268.84	\$297.59	\$326.34	\$355.09
6.00	\$257.63	\$287.63	\$317.63	\$347.63	\$377.63
6.25	\$275.17	\$306.42	\$337.67	\$368.92	\$400.17
6.50	\$292.70	\$325.20	\$357.70	\$390.20	\$422.70
6.75	\$310.24	\$343.99	\$377.74	\$411.49	\$445.24

Assumptions

1. Alfalfa already established. Harvested in June, August, September.
2. Interest computed on fertilization/herbicide costs for 6 months and operating costs for 3 months.
3. Machinery operating costs include: fuel, oil, repairs and labor.
4. Machinery ownership costs are allocated based on equipment used for each crop.
5. Machinery ownership costs include depreciation, interest, insurance, and housing.

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