

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Alfalfa hay	5.0	tons	\$90.00	\$450.00	\$450.00	
Residue	-	AUM	\$0.00	\$0.00	\$0.00	
	Subtotal			\$450.00	\$450.00	
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						
Velpar	1	quart	\$16.50	\$16.50	\$16.50	
Furadan	1	pint	\$10.50	\$10.50	\$10.50	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (wheel line)						
	8	irrigations				
Labor	2.67	hours	\$10.00	\$26.67	\$26.67	
Water assessment	1	share	\$0.00	\$0.00	\$0.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	32	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	3	acre	\$4.03	\$12.10	\$12.10	
Turning/raking	3	acre	\$1.39	\$4.18	\$4.18	
Baling	4.50	tons	\$4.79	\$21.56	\$21.56	
Hauling/stacking	4.50	tons	\$3.63	\$16.34	\$16.34	
Crop insurance (75% Yield, 100% Price)	1	acre	\$16.83	\$16.83	\$16.83	
Interest on operating capital			7.61%	\$3.86	\$3.86	
	Subtotal			\$163.60	\$163.60	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$77.26	\$77.26	\$77.26	
Irrigation equipment	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$251.11	\$251.11	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$286.40	\$286.40	
Above total listed costs				\$198.89	\$198.89	

Breakeven Table - Alfalfa

Net returns per acre above operating costs

Yield (Ton/Ac)	Selling Price (\$/ton)				
	\$80.00	\$85.00	\$90.00	\$95.00	\$100.00
3.50	\$124.82	\$142.32	\$159.82	\$177.32	\$194.82
4.00	\$160.61	\$180.61	\$200.61	\$220.61	\$240.61
4.50	\$196.40	\$218.90	\$241.40	\$263.90	\$286.40
5.00	\$232.19	\$257.19	\$282.19	\$307.19	\$332.19
5.50	\$267.98	\$295.48	\$322.98	\$350.48	\$377.98
6.00	\$303.77	\$333.77	\$363.77	\$393.77	\$423.77
6.50	\$339.56	\$372.06	\$404.56	\$437.06	\$469.56

Assumptions

1. Alfalfa already established. Harvested in June, July, 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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