

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Alfalfa hay	3.9	tons	\$88.57	\$345.41	\$345.41	
Residue	0.50	AUM	\$11.53	\$5.77	\$5.77	
	Subtotal			\$351.18	\$351.18	
Operating costs						
Fertilization						
Phosphate (11-52-0)	144	pounds	\$0.18	\$25.70	\$25.70	
Potassium (0-0-60)	120	pounds	\$0.15	\$18.00	\$18.00	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
Sencor	0.50	pint	\$13.00	\$6.50	\$6.50	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (center pivot)						
Labor	3.00	hours	\$10.00	\$30.00	\$30.00	
Water assessment	1	share	\$10.00	\$10.00	\$10.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	30	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	3	acre	\$4.03	\$12.10	\$12.10	
Turning	3	acre	\$1.39	\$4.18	\$4.18	
Baling	3.90	tons	\$4.79	\$18.68	\$18.68	
Hauling/stacking	3.90	tons	\$3.63	\$14.16	\$14.16	
Crop insurance (75% Yield, 100% Price)	1	acre	\$15.61	\$15.61	\$15.61	
Interest on operating capital			7.61%	\$4.54	\$4.38	
	Subtotal			\$177.41	\$168.63	
Ownership costs (excludes cost of land)						
Insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$120.38	\$120.38	\$120.38	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$308.04	\$299.26	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$173.76	\$182.54	
Above total listed costs				\$43.13	\$51.91	

Breakeven Table - Alfalfa

Net returns per acre above operating costs

Yield (Ton/Ac)	Selling Price (\$/ton)				
	\$78.57	\$83.57	\$88.57	\$93.57	\$98.57
2.40	\$29.54	\$41.54	\$53.54	\$65.54	\$77.54
2.90	\$64.62	\$79.12	\$93.62	\$108.12	\$122.62
3.40	\$99.69	\$116.69	\$133.69	\$150.69	\$167.69
3.90	\$134.76	\$154.26	\$173.76	\$193.26	\$212.76
4.40	\$169.84	\$191.84	\$213.84	\$235.84	\$257.84
4.90	\$204.91	\$229.41	\$253.91	\$278.41	\$302.91
5.40	\$239.98	\$266.98	\$293.98	\$320.98	\$347.98

Assumptions

1. Alfalfa already established harvested in June, July, and 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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