

**Costs and Returns per acre from growing irrigated alfalfa hay, 2006
South Sanpete County**

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Alfalfa hay	3.8	tons	\$88.57	\$336.55	\$336.55	
Residue	0.25	AUM	\$11.53	\$2.88	\$2.88	
	Subtotal			\$339.44	\$339.44	
Operating costs						
Fertilization						
Phosphate (11-52-0)	58	pounds	\$0.18	\$10.35	\$10.35	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
Furadan	1	pint	\$10.50	\$10.50	\$10.50	
Velpar	1	quart	\$16.50	\$16.50	\$16.50	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (wheel line)						
Labor	1.67	hours	\$10.00	\$16.67	\$16.67	
Water assessment	1	share	\$2.20	\$2.20	\$2.20	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	42	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	3.80	tons	\$4.79	\$18.20	\$18.20	
Hauling/stacking	3.80	tons	\$3.63	\$13.79	\$13.79	
Crop insurance (75% Yield, 100% Price)	1	acre	\$15.61	\$15.61	\$15.61	
Interest on operating capital			7.61%	\$3.34	\$3.18	
	Subtotal			\$141.38	\$133.09	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$104.44	\$104.44	\$104.44	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$256.08	\$247.78	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$198.05	\$206.35	
Above total listed costs				\$83.36	\$91.65	

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
2.30	\$54.83	\$66.33	\$77.83	\$89.33	\$100.83
2.80	\$89.91	\$103.91	\$117.91	\$131.91	\$145.91
3.30	\$124.98	\$141.48	\$157.98	\$174.48	\$190.98
3.80	\$160.05	\$179.05	\$198.05	\$217.05	\$236.05
4.30	\$195.13	\$216.63	\$238.13	\$259.63	\$281.13
4.80	\$230.20	\$254.20	\$278.20	\$302.20	\$326.20
5.30	\$265.27	\$291.77	\$318.27	\$344.77	\$371.27

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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