

**Costs and Returns per acre from growing irrigated alfalfa hay, 2006
 North 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	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (wheel line)						
Labor	1.33	hours	\$10.00	\$13.33	\$13.33	
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/raking	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%	\$2.65	\$2.49	
	Subtotal			\$120.86	\$112.57	
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			\$235.55	\$227.26	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$218.58	\$226.87	
Above total listed costs				\$103.89	\$112.18	

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	\$75.36	\$86.86	\$98.36	\$109.86	\$121.36
2.80	\$110.43	\$124.43	\$138.43	\$152.43	\$166.43
3.30	\$145.51	\$162.01	\$178.51	\$195.01	\$211.51
3.80	\$180.58	\$199.58	\$218.58	\$237.58	\$256.58
4.30	\$215.65	\$237.15	\$258.65	\$280.15	\$301.65
4.80	\$250.73	\$274.73	\$298.73	\$322.73	\$346.73
5.30	\$285.80	\$312.30	\$338.80	\$365.30	\$391.80

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.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and Matt Palmer