

Costs and Returns per acre from growing alfalfa hay, 2006

Juab 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	\$343.64	\$343.64	
Residue	0.25	AUM	\$11.53	\$2.88	\$2.88	
	Subtotal			\$346.52	\$346.52	
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	1.00	pint	\$10.50	\$10.50	\$10.50	
Velpar	2	quart	\$16.50	\$33.00	\$33.00	
Custom application	2	acre	\$7.82	\$15.64	\$15.64	
Irrigation (wheel line)						
Labor	1.67	hours	\$10.00	\$16.67	\$16.67	
Water assessment	1	share	\$30.00	\$30.00	\$30.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	38	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%	\$5.07	\$4.90	
	Subtotal			\$202.86	\$194.00	
Ownership costs (excludes cost of land)						
Insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership cost	1	acre	\$63.85	\$63.85	\$63.85	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$276.96	\$268.10	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$143.67	\$152.52	
Above total listed costs				\$69.56	\$78.42	

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
2.38	-\$0.19	\$11.71	\$23.61	\$35.51	\$47.41
2.88	\$34.89	\$49.29	\$63.69	\$78.09	\$92.49
3.38	\$69.96	\$86.86	\$103.76	\$120.66	\$137.56
3.88	\$105.03	\$124.43	\$143.83	\$163.23	\$182.63
4.38	\$140.11	\$162.01	\$183.91	\$205.81	\$227.71
4.88	\$175.18	\$199.58	\$223.98	\$248.38	\$272.78
5.38	\$210.25	\$237.15	\$264.05	\$290.95	\$317.85

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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