

Costs and Returns per acre from growing alfalfa hay, 2006
Millard County - Delta

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Alfalfa hay	4.3	tons	\$88.57	\$380.84	\$380.84	
Subtotal				\$380.84	\$380.84	
Operating costs						
Fertilization						
Phosphate (11-52-0)	192	pounds	\$0.18	\$34.27	\$34.27	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
Furadan	1.00	pint	\$10.50	\$10.50	\$10.50	
Gramoxone Extra	1.50	oz	\$5.85	\$8.78	\$8.78	
Pursuit	4.00	oz	\$4.46	\$17.84	\$17.84	
Custom application	2	acre	\$7.82	\$15.64	\$15.64	
Irrigation (flood)	7	irrigations				
Labor	2.33	hours	\$10.00	\$23.33	\$23.33	
Water assessment	1	share	\$20.00	\$20.00	\$20.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	1	acre	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	4	acre	\$4.03	\$16.14	\$16.14	
Raking	4	acre	\$1.39	\$5.57	\$5.57	
Baling	4.30	tons	\$4.79	\$20.60	\$20.60	
Hauling/stacking	4.30	tons	\$3.63	\$15.61	\$15.61	
Crop insurance (75% Yield, 100% Price)	1	acre	\$19.11	\$19.11	\$19.11	
Interest on operating capital			7.61%	\$5.58	\$5.44	
Subtotal				\$223.09	\$215.77	
Ownership costs (excludes cost of land)				\$59.88	\$59.88	
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$49.63	\$49.63	\$49.63	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
Total costs				\$282.97	\$275.66	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$157.75	\$165.06	
Above total listed costs				\$97.87	\$105.18	

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
2.80	\$9.53	\$23.53	\$37.53	\$51.53	\$65.53
3.30	\$44.60	\$61.10	\$77.60	\$94.10	\$110.60
3.80	\$79.68	\$98.68	\$117.68	\$136.68	\$155.68
4.30	\$114.75	\$136.25	\$157.75	\$179.25	\$200.75
4.80	\$149.82	\$173.82	\$197.82	\$221.82	\$245.82
5.30	\$184.90	\$211.40	\$237.90	\$264.40	\$290.90
5.80	\$219.97	\$248.97	\$277.97	\$306.97	\$335.97

Assumptions

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