

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Alfalfa hay	5.5	tons	\$88.57	\$487.12	\$301.13	
Residue	-	AUM	\$11.53	\$0.00	\$0.00	
	Subtotal			\$487.12	\$301.13	
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	
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	\$10.00	\$10.00	\$10.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	44	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	3	acre	\$15.56	\$46.68	\$46.68	
Turning	3	acre	\$4.69	\$14.07	\$14.07	
Baling	3.40	tons	\$4.79	\$16.29	\$16.29	
Hauling/stacking	3.40	tons	\$3.63	\$12.34	\$12.34	
Interest on operating capital			7.61%	\$4.55	\$5.42	
	Subtotal			\$183.31	\$229.77	
Ownership costs (excludes cost of land)						
Insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$37.92	\$37.92	\$37.92	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$231.48	\$277.94	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$303.81	\$71.36	
Above total listed costs				\$255.64	\$23.19	

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
4.00	\$125.91	\$145.91	\$165.91	\$185.91	\$205.91
4.50	\$160.98	\$183.48	\$205.98	\$228.48	\$250.98
5.00	\$196.05	\$221.05	\$246.05	\$271.05	\$296.05
5.50	\$231.13	\$258.63	\$286.13	\$313.63	\$341.13
6.00	\$266.20	\$296.20	\$326.20	\$356.20	\$386.20
6.50	\$301.27	\$333.77	\$366.27	\$398.77	\$431.27
7.00	\$336.35	\$371.35	\$406.35	\$441.35	\$476.35

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. Custom rates for all field operations.
4. Only owned machinery are a loader and truck.

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