

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
<b>Receipts</b>						
Alfalfa hay	3.6	tons	\$88.57	\$318.84	\$318.84	
Residue	-	AUM	\$0.00	\$0.00	\$0.00	
	<b>Subtotal</b>			\$318.84	\$318.84	
<b>Operating costs</b>						
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	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	40	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	3.60	tons	\$4.79	\$17.24	\$17.24	
Hauling/stacking	3.60	tons	\$3.63	\$13.07	\$13.07	
Crop insurance (75% Yield, 100% Price)	1	acre	\$14.53	\$14.53	\$14.53	
Interest on operating capital			7.61%	\$3.08	\$2.96	
	<b>Subtotal</b>			\$136.45	\$129.91	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$100.56	\$100.56	\$100.56	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	<b>Total costs</b>			\$247.26	\$240.72	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$182.39	\$188.93	
Above total listed costs				\$71.58	\$78.12	

**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
2.10	\$41.17	\$51.67	\$62.17	\$72.67	\$83.17
2.60	\$76.24	\$89.24	\$102.24	\$115.24	\$128.24
3.10	\$111.32	\$126.82	\$142.32	\$157.82	\$173.32
3.60	\$146.39	\$164.39	\$182.39	\$200.39	\$218.39
4.10	\$181.46	\$201.96	\$222.46	\$242.96	\$263.46
4.60	\$216.54	\$239.54	\$262.54	\$285.54	\$308.54
5.10	\$251.61	\$277.11	\$302.61	\$328.11	\$353.61

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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