

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Alfalfa hay	4.2	tons	\$88.57	\$371.98	\$371.98	
Residue	-	AUM	\$0.00	\$0.00	\$0.00	
	Subtotal			\$371.98	\$371.98	
Operating costs						
Fertilization						
Phosphate (11-52-0)	48	pounds	\$0.18	\$8.57	\$8.57	
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	3.00	hours	\$10.00	\$30.00	\$30.00	
Water assessment	1	share	\$10.00	\$10.00	\$10.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	46	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	4	acre	\$15.56	\$62.24	\$62.24	
Turning	4	acre	\$4.69	\$18.76	\$18.76	
Baling	4.20	tons	\$4.79	\$20.12	\$20.12	
Hauling/stacking	4.20	tons	\$3.63	\$15.25	\$15.25	
Interest on operating capital			7.61%	\$4.34	\$5.41	
	Subtotal			\$197.71	\$255.10	
Ownership costs (excludes cost of land)						
Insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$34.12	\$34.12	\$34.12	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$242.08	\$299.47	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$174.27	\$116.88	
Above total listed costs				\$129.90	\$72.51	

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
2.70	\$27.05	\$40.55	\$54.05	\$67.55	\$81.05
3.20	\$62.12	\$78.12	\$94.12	\$110.12	\$126.12
3.70	\$97.20	\$115.70	\$134.20	\$152.70	\$171.20
4.20	\$132.27	\$153.27	\$174.27	\$195.27	\$216.27
4.70	\$167.34	\$190.84	\$214.34	\$237.84	\$261.34
5.20	\$202.42	\$228.42	\$254.42	\$280.42	\$306.42
5.70	\$237.49	\$265.99	\$294.49	\$322.99	\$351.49

Assumptions

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