

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
<b>Receipts</b>						
Alfalfa hay	3.4	tons	\$88.57	\$301.13	\$301.13	
Residue	0.25	AUM	\$11.53	\$2.88	\$2.88	
	<b>Subtotal</b>			\$304.01	\$304.01	
<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	
Irrigation (wheel line)						
Labor	3	irrigations				
Water assessment	1	share	\$10.00	\$10.00	\$10.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	33	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	2	acre	\$4.03	\$8.07	\$8.07	
Turning/raking	2	acre	\$1.39	\$2.78	\$2.78	
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%	\$2.12	\$1.94	
	<b>Subtotal</b>			\$88.86	\$79.10	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$127.46	\$127.46	\$127.46	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	<b>Total costs</b>			\$226.58	\$216.82	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$215.15	\$224.91	
Above total listed costs				\$77.43	\$87.19	

**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
1.90	\$75.93	\$85.43	\$94.93	\$104.43	\$113.93
2.40	\$111.00	\$123.00	\$135.00	\$147.00	\$159.00
2.90	\$146.07	\$160.57	\$175.07	\$189.57	\$204.07
3.40	\$181.15	\$198.15	\$215.15	\$232.15	\$249.15
3.90	\$216.22	\$235.72	\$255.22	\$274.72	\$294.22
4.40	\$251.29	\$273.29	\$295.29	\$317.29	\$339.29
4.90	\$286.37	\$310.87	\$335.37	\$359.87	\$384.37

Assumptions

1. Alfalfa already established. Harvested in July - September.
2. Interest computed on fertilization 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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