

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Oat hay	2.8	tons	\$67.67	\$189.47	\$189.47	
Residue	1.00	AUM	\$11.53	\$11.53	\$11.53	
	Subtotal			\$201.00	\$201.00	
Operating costs						
Land preparation						
Plowing	1	acre	\$5.88	\$5.88	\$5.88	
Discing w/ harrow	2	acre	\$3.73	\$7.47	\$7.47	
Planting	1	acre	\$2.96	\$2.96	\$2.96	
Seed	80	pounds	\$0.17	\$13.60	\$13.60	
Fertilization						
Nitrogen (34-0-0)	205	pounds	\$0.18	\$36.59	\$36.59	
Phosphate (11-52-0)	48	pounds	\$0.18	\$8.57	\$8.57	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
2-4-D	1.25	pint	\$2.75	\$3.44	\$3.44	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (wheel line)						
Labor	1.33	hours	\$10.00	\$13.33	\$13.33	
Water assessment	1	share	\$10.00	\$10.00	\$10.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	25	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	1	acre	\$4.03	\$4.03	\$4.03	
Turning/raking	1	acre	\$1.39	\$1.39	\$1.39	
Baling	2.80	tons	\$4.79	\$13.41	\$13.41	
Hauling/stacking	2.80	tons	\$3.63	\$10.16	\$10.16	
Interest on operating capital			7.61%	\$3.61	\$3.61	
	Subtotal			\$152.40	\$142.34	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$152.41	\$152.41	\$152.41	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$315.06	\$305.00	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$48.60	\$58.66	
Above total listed costs				-\$114.06	-\$104.00	

Breakeven Table - Oat Hay

Net returns per acre above operating costs

Yield (Ton/Ac)	Selling Price (\$/ton)				
	\$57.67	\$62.67	\$67.67	\$72.67	\$77.67
1.30	-\$53.27	-\$46.77	-\$40.27	-\$33.77	-\$27.27
1.80	-\$28.64	-\$19.64	-\$10.64	-\$1.64	\$7.36
2.30	-\$4.02	\$7.48	\$18.98	\$30.48	\$41.98
2.80	\$20.60	\$34.60	\$48.60	\$62.60	\$76.60
3.30	\$45.23	\$61.73	\$78.23	\$94.73	\$111.23
3.80	\$69.85	\$88.85	\$107.85	\$126.85	\$145.85
4.30	\$94.47	\$115.97	\$137.47	\$158.97	\$180.47

Assumptions

1. Oat hay planted in late April and harvested in August.
2. Interest computed on land preparation and planting costs for 10 months and fertilization/herbicide/irrigation 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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