

Costs and Returns per acre from growing oat hay, 2006
Box Elder County

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	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Oat hay	2.1	tons	\$67.67	\$142.10	\$142.10	
Subtotal				\$142.10	\$142.10	
Operating costs						
Land preparation						
Plowing (every 3rd year)	1/3	acre	\$5.88	\$1.96	\$1.96	
Discing w/ packer	1	acre	\$3.73	\$3.73	\$3.73	
Land plane	2	acre	\$3.34	\$6.69	\$6.69	
Planting	1	acre	\$2.96	\$2.96	\$2.96	
Seed	70	pounds	\$0.17	\$11.90	\$11.90	
Fertilization						
Nitrogen (34-0-0)	278	pounds	\$0.18	\$49.62	\$49.62	
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	pints	\$2.75	\$3.44	\$3.44	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (Siphon)	3	irrigations				
Labor	1.00	hours	\$10.00	\$10.00	\$10.00	
Water assessment	1	share	\$10.00	\$10.00	\$10.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	-	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	2.10	tons	\$4.79	\$10.06	\$10.06	
Hauling/stacking	2.10	tons	\$3.63	\$7.62	\$7.62	
Interest on operating capital			7.61%	\$3.62	\$3.62	
Subtotal				\$153.54	\$146.84	
Ownership costs (excludes cost of land)				\$77.99	\$77.99	
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$67.74	\$67.74	\$67.74	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
Total costs				\$231.54	\$224.83	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				-\$11.44	-\$4.74	
Above total listed costs				-\$89.44	-\$82.73	

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
1.35	-\$69.38	-\$62.63	-\$55.88	-\$49.13	-\$42.38
1.60	-\$57.07	-\$49.07	-\$41.07	-\$33.07	-\$25.07
1.85	-\$44.75	-\$35.50	-\$26.25	-\$17.00	-\$7.75
2.10	-\$32.44	-\$21.94	-\$11.44	-\$0.94	\$9.56
2.35	-\$20.13	-\$8.38	\$3.37	\$15.12	\$26.87
2.60	-\$7.82	\$5.18	\$18.18	\$31.18	\$44.18
2.85	\$4.49	\$18.74	\$32.99	\$47.24	\$61.49

Assumptions

1. Grain planted in late March and harvested in July.
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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