

**Costs and Returns per acre from establishing alfalfa in oat hay, 2006
Carbon County**

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Oat Hay	1.5	tons	\$67.67	\$101.50	\$101.50	
Residue	-	AUM	\$0.00	\$0.00	\$0.00	
Subtotal				\$101.50	\$101.50	
Operating costs						
Land preparation						
Plowing	1	acre	\$22.78	\$22.78	\$22.78	
Roller harrow	2	acre	\$14.33	\$28.66	\$28.66	
Discing	1	acre	\$11.56	\$11.56	\$11.56	
Planting	1	acre	\$12.21	\$12.21	\$12.21	
Seed						
Oat seed	20	pounds	\$0.17	\$3.40	\$3.40	
Alfalfa seed	15	pounds	\$2.52	\$37.80	\$37.80	
Fertilization						
Nitrogen (34-0-0)	100	pounds	\$0.18	\$17.85	\$17.85	
Phosphate (11-52-0)	200	pounds	\$0.18	\$35.70	\$35.70	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (gated pipe)	4	irrigations				
Labor	1.33	hours	\$10.00	\$13.33	\$13.33	
Water assessment	1	share	\$5.00	\$5.00	\$5.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	29	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	1	acre	\$15.56	\$15.56	\$15.56	
Raking/turning	1	acre	\$4.69	\$4.69	\$4.69	
Baling	1.50	tons	\$4.79	\$7.19	\$7.19	
Hauling/stacking	1.50	tons	\$3.63	\$5.45	\$5.45	
Interest on operating capital			7.61%	\$10.50	\$10.50	
Subtotal				\$241.80	\$261.91	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$107.98	\$107.98	\$107.98	
Irrigation equipment	1	acre	\$8.25	\$8.25	\$8.25	
Total costs				\$360.03	\$380.14	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				-\$140.30	-\$160.41	
Above total listed costs				-\$258.53	-\$278.64	

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
0.00	-\$229.17	-\$229.17	-\$229.17	-\$229.17	-\$229.17
0.50	-\$204.54	-\$202.04	-\$199.54	-\$197.04	-\$194.54
1.00	-\$179.92	-\$174.92	-\$169.92	-\$164.92	-\$159.92
1.50	-\$155.30	-\$147.80	-\$140.30	-\$132.80	-\$125.30
2.00	-\$130.67	-\$120.67	-\$110.67	-\$100.67	-\$90.67
2.50	-\$106.05	-\$93.55	-\$81.05	-\$68.55	-\$56.05
3.00	-\$81.43	-\$66.43	-\$51.43	-\$36.43	-\$21.43

Assumptions

1. Grain planted in late September and harvested in July.
2. Interest computed on land preparation and planting costs for 10 months and fertilization/irrigation costs for 6 months.
3. Custom rates on all operations.
4. Only owned machinery are a loader and truck.

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