

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
<b>Receipts</b>						
Oat hay	2.0	tons	\$67.67	\$135.33	\$135.33	
Residue	-	AUM	\$0.00	\$0.00	\$0.00	
	<b>Subtotal</b>			\$135.33	\$135.33	
<b>Operating costs</b>						
Land preparation						
Plowing	1	acre	\$5.88	\$5.88	\$5.88	
Roller harrow	2	acre	\$3.64	\$7.28	\$7.28	
Discing	1	acre	\$3.73	\$3.73	\$3.73	
Planting	1	acre	\$2.96	\$2.96	\$2.96	
Seed						
Oat seed	90	pounds	\$0.17	\$15.30	\$15.30	
Alfalfa seed	12	pounds	\$2.52	\$30.24	\$30.24	
Fertilization						
Nitrogen (34-0-0)	232	pounds	\$0.18	\$41.41	\$41.41	
Phosphate (11-52-0)	192	pounds	\$0.18	\$34.27	\$34.27	
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	40	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	1	acre	\$4.03	\$4.03	\$4.03	
Raking/turning	1	acre	\$1.39	\$1.39	\$1.39	
Baling	2.00	tons	\$4.79	\$9.58	\$9.58	
Hauling/stacking	2.00	tons	\$3.63	\$7.26	\$7.26	
Crop insurance (75% Yield, 100% Price)	1		\$5.63	\$5.63	\$5.63	
Interest on operating capital			7.61%	\$8.30	\$8.30	
	<b>Subtotal</b>			\$210.73	\$204.51	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$122.07	\$122.07	\$122.07	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	<b>Total costs</b>			\$343.05	\$336.82	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				-\$75.40	-\$69.17	
Above total listed costs				-\$207.72	-\$201.49	

**Breakeven Table - Oats**

Net returns per acre above operating costs

Yield (Ton/Ac)	Selling Price (\$/ton)				
	\$57.67	\$62.67	\$67.67	\$72.67	\$77.67
0.50	-\$169.27	-\$166.77	-\$164.27	-\$161.77	-\$159.27
1.00	-\$144.65	-\$139.65	-\$134.65	-\$129.65	-\$124.65
1.50	-\$120.02	-\$112.52	-\$105.02	-\$97.52	-\$90.02
2.00	-\$95.40	-\$85.40	<b>-\$75.40</b>	-\$65.40	-\$55.40
2.50	-\$70.78	-\$58.28	-\$45.78	-\$33.28	-\$20.78
3.00	-\$46.15	-\$31.15	-\$16.15	-\$1.15	\$13.85
3.50	-\$21.53	-\$4.03	\$13.47	\$30.97	\$48.47

Assumptions

1. Grain planted in March and harvested in July.
2. Interest computed on land preparation and planting costs for 10 months and fertilization/herbicide/irrigation costs for 6 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.