

**Costs and Returns per acre from establishing alfalfa after oat hay, 2006**

**Tooele County**

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
<b>Receipts</b>						
Oat hay	2.2	tons	\$67.67	\$148.87	\$148.87	
Residue	-	AUM	\$0.00	\$0.00	\$0.00	
	<b>Subtotal</b>			\$148.87	\$148.87	
<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	70	pounds	\$0.17	\$11.90	\$11.90	
Alfalfa seed	16	pounds	\$2.52	\$40.32	\$40.32	
Fertilization						
Nitrogen (34-0-0)	249	pounds	\$0.18	\$44.45	\$44.45	
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	-	pints	\$2.75	\$0.00	\$0.00	
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	\$15.00	\$15.00	\$15.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	33	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	2.20	tons	\$4.79	\$10.54	\$10.54	
Hauling/stacking	2.20	tons	\$3.63	\$7.99	\$7.99	
Crop insurance (75% Yield, 100% Price)	1	acre	\$5.63	\$5.63	\$5.63	
Interest on operating capital			7.61%	\$7.09	\$7.09	
	<b>Subtotal</b>			\$208.04	\$208.04	\$208.85
Ownership costs (excludes cost of land)						
Insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$76.28	\$76.28	\$76.28	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	<b>Total costs</b>			\$294.56	\$294.56	\$287.38
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				-\$59.17	-\$59.17	
Above total listed costs				-\$145.70	-\$145.70	-\$138.51

**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
0.70	-\$155.04	-\$151.54	-\$148.04	-\$144.54	-\$141.04
1.20	-\$130.42	-\$124.42	-\$118.42	-\$112.42	-\$106.42
1.70	-\$105.79	-\$97.29	-\$88.79	-\$80.29	-\$71.79
2.20	-\$81.17	-\$70.17	-\$59.17	-\$48.17	-\$37.17
2.70	-\$56.55	-\$43.05	-\$29.55	-\$16.05	-\$2.55
3.20	-\$31.92	-\$15.92	\$0.08	\$16.08	\$32.08
3.70	-\$7.30	\$11.20	\$29.70	\$48.20	\$66.70

Assumptions

1. Oat hay 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 4 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.