

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Oat hay	1.3	tons	\$67.67	\$86.61	\$86.61	
Residue	0.25	AUM	\$11.53	\$2.88	\$2.88	
	Subtotal			\$89.50	\$89.50	
Operating costs						
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	100	pounds	\$0.17	\$17.00	\$17.00	
Alfalfa seed	15	pounds	\$2.52	\$37.80	\$37.80	
Fertilization						
Nitrogen (34-0-0)	205	pounds	\$0.18	\$36.59	\$36.59	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
2-4-D	-	pounds	\$2.75	\$0.00	\$0.00	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (flood)						
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	-	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	1	acre	\$4.03	\$4.03	\$4.03	
Raking	1	acre	\$1.39	\$1.39	\$1.39	
Baling	1.30	tons	\$4.79	\$6.23	\$6.23	
Hauling/stacking	1.30	tons	\$3.63	\$4.72	\$4.72	
Interest on operating capital			7.61%	\$6.71	\$6.71	
	Subtotal			\$175.61	\$172.66	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$194.26	\$194.26	\$194.26	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$380.11	\$377.17	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				-\$86.11	-\$83.17	
Above total listed costs				-\$290.62	-\$287.67	

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
0.03	-\$160.30	-\$160.15	-\$160.00	-\$159.85	-\$159.70
0.28	-\$147.99	-\$146.59	-\$145.19	-\$143.79	-\$142.39
0.78	-\$123.37	-\$119.47	-\$115.57	-\$111.67	-\$107.77
1.28	-\$98.74	-\$92.34	-\$85.94	-\$79.54	-\$73.14
1.78	-\$74.12	-\$65.22	-\$56.32	-\$47.42	-\$38.52
2.28	-\$49.50	-\$38.10	-\$26.70	-\$15.30	-\$3.90
2.78	-\$24.87	-\$10.97	\$2.93	\$16.83	\$30.73

Assumptions

1. Oats 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.