

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
<b>Receipts</b>						
Oat hay	2.1	tons	\$67.67	\$142.10	\$142.10	
Alfalfa	1.0	tons	\$88.57	\$88.57	\$88.57	
	<b>Subtotal</b>			\$230.67	\$230.67	
<b>Operating costs</b>						
Land preparation						
Plowing	1	acre	\$22.78	\$22.78	\$22.78	
Roller harrow	2	acre	\$14.33	\$28.66	\$28.66	
Land plane	2	acre	\$11.50	\$23.00	\$23.00	
Discing	1	acre	\$11.56	\$11.56	\$11.56	
Planting	1	acre	\$12.71	\$12.71	\$12.71	
Seed						
Oat seed	40	pounds	\$0.17	\$6.80	\$6.80	
Alfalfa seed	15	pounds	\$2.52	\$37.80	\$37.80	
Fertilization						
Phosphate (11-52-0)	96	pounds	\$0.18	\$17.14	\$17.14	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
Roundup	0.5	quart	\$6.32	\$3.16	\$3.16	
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	44	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	2	acre	\$15.56	\$31.12	\$31.12	
Turning/raking	2	acre	\$4.69	\$9.38	\$9.38	
Baling	3.10	tons	\$4.79	\$14.85	\$14.85	
Hauling/stacking	3.10	tons	\$3.63	\$11.25	\$11.25	
Interest on operating capital			7.61%	\$11.43	\$12.30	
	<b>Subtotal</b>			\$282.91	\$348.20	
Ownership costs (excludes cost of land)						
Insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$37.92	\$37.92	\$37.92	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	<b>Total costs</b>			\$331.09	\$396.37	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				-\$52.25	-\$117.53	
Above total listed costs				-\$100.42	-\$165.71	

**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
0.60	-\$138.70	-\$135.70	-\$132.70	-\$129.70	-\$126.70
1.10	-\$114.07	-\$108.57	-\$103.07	-\$97.57	-\$92.07
1.60	-\$89.45	-\$81.45	-\$73.45	-\$65.45	-\$57.45
2.10	-\$64.83	-\$54.33	-\$43.83	-\$33.33	-\$22.83
2.60	-\$40.20	-\$27.20	-\$14.20	-\$1.20	\$11.80
3.10	-\$15.58	-\$0.08	\$15.42	\$30.92	\$46.42
3.60	\$9.04	\$27.04	\$45.04	\$63.04	\$81.04

Assumptions

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

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