

**Costs and Returns per acre from establishing alfalfa in oat hay, 2006
Garfield County - general**

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Oat hay	2.5	tons	\$67.67	\$169.17	\$169.17	
Residue	0.25	AUM	\$11.53	\$2.88	\$2.88	
	Subtotal			\$172.05	\$172.05	
Operating costs						
Land preparation						
Plowing	1	acre	\$22.78	\$22.78	\$22.78	
Roller harrow	2	acre	\$14.33	\$28.66	\$28.66	
Planting	1	acre	\$12.21	\$12.21	\$12.21	
Seed						
Oat seed	25	pounds	\$0.17	\$4.25	\$4.25	
Alfalfa seed	15	pounds	\$2.52	\$37.80	\$37.80	
Fertilization						
Nitrogen (34-0-0)	278	pounds	\$0.18	\$49.62	\$49.62	
Phosphate (11-52-0)	96	pounds	\$0.18	\$17.14	\$17.14	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
2-4-D	-	pints	\$2.75	\$0.00	\$0.00	
Custom application	-	acre	\$7.82	\$0.00	\$0.00	
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	22	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Swathing	1	acre	\$15.56	\$15.56	\$15.56	
Turning/raking	1	acre	\$4.69	\$4.69	\$4.69	
Baling	2.50	tons	\$4.79	\$11.98	\$11.98	
Hauling/stacking	2.50	tons	\$3.63	\$9.08	\$9.08	
Interest on operating capital			7.61%	\$9.25	\$9.25	
	Subtotal			\$256.46	\$289.98	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$67.50	\$67.50	\$67.50	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$334.21	\$367.73	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				-\$84.41	-\$117.93	
Above total listed costs				-\$162.16	-\$195.68	

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
1.00	-\$183.28	-\$178.28	-\$173.28	-\$168.28	-\$163.28
1.50	-\$158.65	-\$151.15	-\$143.65	-\$136.15	-\$128.65
2.00	-\$134.03	-\$124.03	-\$114.03	-\$104.03	-\$94.03
2.50	-\$109.41	-\$96.91	-\$84.41	-\$71.91	-\$59.41
3.00	-\$84.78	-\$69.78	-\$54.78	-\$39.78	-\$24.78
3.50	-\$60.16	-\$42.66	-\$25.16	-\$7.66	\$9.84
4.00	-\$35.54	-\$15.54	\$4.46	\$24.46	\$44.46

Assumptions

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