

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

Grand County

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Oat hay	2.4	tons	\$67.67	\$162.40	\$162.40	
Residue	0.25	AUM	\$11.53	\$2.88	\$2.88	
Subtotal				\$165.28	\$165.28	
Operating costs						
Land preparation						
Plowing	1	acre	\$22.78	\$22.78	\$22.78	
Rolling harrow	2	acre	\$14.33	\$28.66	\$28.66	
Planting	1	acre	\$12.21	\$12.21	\$12.21	
Seed						
Oat seed	70	pounds	\$0.17	\$11.90	\$11.90	
Alfalfa seed	15	pounds	\$2.52	\$37.80	\$37.80	
Fertilization						
Phosphate (11-52-0)	192	pounds	\$0.18	\$34.27	\$34.27	
Potash (0-0-60)	125	pounds	\$0.15	\$18.75	\$18.75	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
Roundup Ultra Max	1	quart	\$6.32	\$6.32	\$6.32	
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	53	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	2.40	tons	\$4.79	\$11.50	\$11.50	
Hauling/stacking	2.40	tons	\$3.63	\$8.71	\$8.71	
Interest on operating capital			7.61%	\$6.23	\$6.23	
Subtotal				\$260.65	\$292.84	
Ownership costs (excludes cost of land)						
Insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$51.60	\$51.60	\$51.60	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
Total costs				\$322.50	\$354.69	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				-\$95.37	-\$127.55	
Above total listed costs				-\$157.22	-\$189.40	

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
0.90	-\$193.24	-\$188.74	-\$184.24	-\$179.74	-\$175.24
1.40	-\$168.62	-\$161.62	-\$154.62	-\$147.62	-\$140.62
1.90	-\$143.99	-\$134.49	-\$124.99	-\$115.49	-\$105.99
2.40	-\$119.37	-\$107.37	-\$95.37	-\$83.37	-\$71.37
2.90	-\$94.75	-\$80.25	-\$65.75	-\$51.25	-\$36.75
3.40	-\$70.12	-\$53.12	-\$36.12	-\$19.12	-\$2.12
3.90	-\$45.50	-\$26.00	-\$6.50	\$13.00	\$32.50

Assumptions

1. Grain planted in late March and harvested in early August.
2. Interest computed on land preparation and planting costs for 6 months and fertilization/herbicide/irrigation costs for 3 months.
3. Custom rates for all field operations.
4. Only owned machinery are a loader and truck.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and Michael Johnson