

**Costs and Returns per acre from establishing alfalfa after barley, 2006  
Beaver County**

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
<b>Receipts</b>						
Barley	82.3	bushels	\$2.27	\$186.49	\$186.49	
Straw	0.75	tons	\$43.00	\$32.25	\$32.25	
	<b>Subtotal</b>			\$218.74	\$218.74	
<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						
Barley seed	90	pounds	\$0.17	\$15.30	\$15.30	
Alfalfa seed	12	pounds	\$2.52	\$30.24	\$30.24	
Fertilization						
Nitrogen (34-0-0)	205	pounds	\$0.18	\$36.59	\$36.59	
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 Lo V Ester 6 lb	-	pints	\$2.75	\$0.00	\$0.00	
Puma	0.67	pints	\$25.00	\$16.75	\$16.75	
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	32	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Custom combine	1	acre	\$26.00	\$26.00	\$26.00	
Haul grain (custom)	82.3	bushel	\$0.06	\$4.94	\$4.94	
Baling	0.75	tons	\$4.79	\$3.59	\$3.59	
Haul/stack straw	0.75	tons	\$3.63	\$2.72	\$2.72	
Crop insurance (75% Yield, 100% Price)	1	acre	\$5.63	\$5.63	\$5.63	
Interest on operating capital			7.61%	\$8.07	\$8.07	
	<b>Subtotal</b>			\$219.54	\$220.21	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$72.54	\$72.54	\$72.54	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	<b>Total costs</b>			\$302.33	\$303.00	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				-\$0.80	-\$1.47	
Above total listed costs				-\$83.59	-\$84.26	

**Breakeven Table - Barley**

Net returns per acre above operating costs

Yield (Bu/Ac)	Selling Price (\$/Bu)				
	\$1.27	\$1.77	\$2.27	\$2.77	\$3.27
67.30	-\$101.19	-\$67.54	-\$33.89	-\$0.24	\$33.41
72.30	-\$95.16	-\$59.01	-\$22.86	\$13.29	\$49.44
77.30	-\$89.13	-\$50.48	-\$11.83	\$26.82	\$65.47
82.30	-\$83.10	-\$41.95	-\$0.80	\$40.35	\$81.50
87.30	-\$77.07	-\$33.42	\$10.23	\$53.88	\$97.53
92.30	-\$71.04	-\$24.89	\$21.26	\$67.41	\$113.56
97.30	-\$65.01	-\$16.36	\$32.29	\$80.94	\$129.59

Assumptions

1. Grain planted in late September and harvested in July.
2. Interest computed on land preparation and planting costs for 10 months and fertilization/herbicide/irrigation costs for 6 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.
6. Irrigation water is pumped from a depth of 300 feet.