

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

**Juab county**

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
<b>Receipts</b>						
Barley	56.0	bushels	\$2.27	\$126.90	\$126.90	
Straw	0.70	tons	\$43.00	\$30.10	\$30.10	
				\$157.00	\$157.00	
<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	
Land plane	2	acre	\$3.34	\$6.69	\$6.69	
Discing	1	acre	\$3.73	\$3.73	\$3.73	
Planting	1	acre	\$2.96	\$2.96	\$2.96	
Seed						
Barley seed	100	pounds	\$0.17	\$17.00	\$17.00	
Alfalfa seed	16	pounds	\$2.52	\$40.32	\$40.32	
Fertilization						
Nitrogen (34-0-0)	278	pounds	\$0.18	\$49.62	\$49.62	
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	-	pint	\$2.75	\$0.00	\$0.00	
Puma	0.67	pint	\$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	\$30.00	\$30.00	\$30.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	38	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Custom combine	1	acre	\$26.00	\$26.00	\$26.00	
Haul grain (custom)	56.0	bushel	\$0.06	\$3.36	\$3.36	
Baling	0.70	tons	\$4.79	\$3.35	\$3.35	
Haul/stack straw	0.70	tons	\$3.63	\$2.54	\$2.54	
Crop insurance (75% Yield, 100% Price)	1	acre	\$5.63	\$5.63	\$5.63	
Interest on operating capital			7.61%	\$10.50	\$10.50	
				\$271.47	\$272.31	
<b>Ownership costs (excludes cost of land)</b>						
Insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership cost	1	acre	\$58.83	\$58.83	\$58.83	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
				\$340.55	\$341.40	
<b>Total costs</b>						
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs					-\$114.47	-\$115.32
Above total listed costs					-\$183.55	-\$184.40

**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
41.00	-\$188.56	-\$168.06	-\$147.56	-\$127.06	-\$106.56
46.00	-\$182.53	-\$159.53	-\$136.53	-\$113.53	-\$90.53
51.00	-\$176.50	-\$151.00	-\$125.50	-\$100.00	-\$74.50
56.00	-\$170.47	-\$142.47	-\$114.47	-\$86.47	-\$58.47
61.00	-\$164.44	-\$133.94	-\$103.44	-\$72.94	-\$42.44
66.00	-\$158.41	-\$125.41	-\$92.41	-\$59.41	-\$26.41
71.00	-\$152.38	-\$116.88	-\$81.38	-\$45.88	-\$10.38

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/herbicides/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.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and Jeff Banks

