

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

Receipts	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Barley	84.0	bushels	\$2.50	\$210.00	\$210.00	
Straw	0.75	tons	\$43.00	\$32.25	\$32.25	
Hay (weedy)	1.5	tons	\$67.67	\$101.50	\$101.50	
<b>Subtotal</b>				\$343.75	\$343.75	
<b>Operating costs</b>						
Crop insurance (75% Yield, 100% Price)						
Plowing	1	acre	\$5.88	\$5.88	\$5.88	
Roller harrow	1	acre	\$3.64	\$3.64	\$3.64	
Discing	2	acre	\$3.73	\$7.47	\$7.47	
Land plane	1	acre	\$3.34	\$3.34	\$3.34	
Planting	1	acre	\$2.96	\$2.96	\$2.96	
Seed						
Barley seed	80	pounds	\$0.17	\$13.60	\$13.60	
Alfalfa seed	15	pounds	\$2.52	\$37.80	\$37.80	
Fertilization						
Nitrogen (34-0-0)	190	pounds	\$0.18	\$33.92	\$33.92	
Phosphate (11-52-0)	96	pounds	\$0.18	\$17.14	\$17.14	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
Eptam	3.5	pint	\$4.70	\$16.45	\$16.45	
Harmony-Extra	0.0	oz	\$14.15	\$0.00	\$0.00	
2-4-D	-	pint	\$2.75	\$0.00	\$0.00	
Custom application	2	acre	\$7.82	\$15.64	\$15.64	
Irrigation (wheel line)	4	irrigations				
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	25	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Custom combine	1	acre	\$28.00	\$28.00	\$28.00	
Haul grain (custom)	84.0	bushel	\$0.08	\$6.72	\$6.72	
Swathing	1	acre	\$4.03	\$4.03	\$4.03	
Turning/raking	1	acre	\$1.39	\$1.39	\$1.39	
Baling	2.25	tons	\$4.79	\$10.78	\$10.78	
Hauling/stacking	2.25	tons	\$3.63	\$8.17	\$8.17	
Crop insurance (75% Yield, 100% Price)	1	acre	\$5.63	\$5.63	\$5.63	
Interest on operating capital			7.61%	\$9.17	\$9.17	
<b>Subtotal</b>				\$265.19	\$265.19	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$88.71	\$88.71	\$88.71	
Irrigation equipment	1	acre	\$8.25	\$8.25	\$8.25	
<b>Total costs</b>				\$364.15	\$364.15	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$78.56	\$78.56	
Above total listed costs				-\$20.40	-\$20.40	

**Breakeven Table - Barley**

Net returns per acre above operating costs

Yield (Bu/Ac)	Selling Price (\$/Bu)				
	\$1.50	\$2.00	\$2.50	\$3.00	\$3.50
69.00	-\$26.74	\$7.76	\$42.26	\$76.76	\$111.26
74.00	-\$19.64	\$17.36	\$54.36	\$91.36	\$128.36
79.00	-\$12.54	\$26.96	\$66.46	\$105.96	\$145.46
84.00	-\$5.44	\$36.56	<b>\$78.56</b>	\$120.56	\$162.56
89.00	\$1.66	\$46.16	\$90.66	\$135.16	\$179.66
94.00	\$8.76	\$55.76	\$102.76	\$149.76	\$196.76
99.00	\$15.86	\$65.36	\$114.86	\$164.36	\$213.86

Assumptions

1. Grain planted in late April and harvested in late July. Hay harvested in September.
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.