

Costs and Returns per acre from establishing alfalfa with barley, 2006

Box Elder County

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Barley	92.8	bushels	\$2.27	\$210.28	\$210.28	
Straw	0.75	tons	\$43.00	\$32.25	\$32.25	
Hay	1.0	tons	\$88.57	\$88.57	\$88.57	
	Subtotal			\$331.10	\$331.10	
Operating costs						
Land preparation						
Plowing	1	acre	\$5.88	\$5.88	\$5.88	
Land plane	2	acre	\$3.34	\$6.69	\$6.69	
Discing w/ packer	1	acre	\$3.73	\$3.73	\$3.73	
Planting	1	acre	\$2.96	\$2.96	\$2.96	
Seed						
Barley seed	80	pounds	\$0.17	\$13.60	\$13.60	
Alfalfa seed	12	pounds	\$2.52	\$30.24	\$30.24	
Fertilization						
Nitrogen (34-0-0)	150	pounds	\$0.18	\$26.78	\$26.78	
Phosphate (11-52-0)	96	pounds	\$0.18	\$17.14	\$17.14	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (siphon)						
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	-	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Custom combine	1	acre	\$26.00	\$26.00	\$26.00	
Haul grain (custom)	92.8	bushel	\$0.06	\$5.57	\$5.57	
Baling	1	acre	\$3.36	\$3.36	\$3.36	
Haul/stack straw	0.2	acre	\$21.78	\$3.63	\$3.63	
Swathing	1	acre	\$4.03	\$4.03	\$4.03	
Turning/raking	1	acre	\$1.39	\$1.39	\$1.39	
Baling	1.75	tons	\$4.79	\$8.38	\$8.38	
Hauling/stacking	1.75	tons	\$3.63	\$6.35	\$6.35	
Crop insurance (75% Yield, 100% Price)	1	acre	\$5.63	\$5.63	\$5.63	
Interest on operating capital			7.61%	\$6.95	\$6.95	
	Subtotal			\$211.76	\$204.01	
Ownership costs (excludes cost of land)						
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$67.74	\$67.74	\$67.74	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$289.76	\$282.01	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$119.34	\$127.09	
Above total listed costs				\$41.35	\$49.10	

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
77.80	\$8.45	\$47.35	\$86.25	\$125.15	\$164.05
82.80	\$14.48	\$55.88	\$97.28	\$138.68	\$180.08
87.80	\$20.51	\$64.41	\$108.31	\$152.21	\$196.11
92.80	\$26.54	\$72.94	\$119.34	\$165.74	\$212.14
97.80	\$32.57	\$81.47	\$130.37	\$179.27	\$228.17
102.80	\$38.60	\$90.00	\$141.40	\$192.80	\$244.20
107.80	\$44.63	\$98.53	\$152.43	\$206.33	\$260.23

Assumptions

1. Grain and alfalfa planted in April. Barley and straw harvested in July and a cutting of alfalfa hay harvested in September.
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.

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