

Costs and Returns per acre from growing corn for silage, 2006
Utah County

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Corn silage	21.7	tons	\$30.80	\$668.36	\$668.36	
Residue	-	AUM	\$0.00	\$0.00	\$0.00	
	Subtotal			\$668.36	\$668.36	
Operating costs						
Land preparation						
Plowing	1	acre	\$5.88	\$5.88	\$5.88	
Discing	1	acre	\$3.73	\$3.73	\$3.73	
Land plane	1	acre	\$3.34	\$3.34	\$3.34	
Roller harrow	2	acre	\$3.64	\$7.28	\$7.28	
Planting	1	acre	\$5.28	\$5.28	\$5.28	
Seed	0.45	bags	\$90.00	\$40.50	\$40.50	
Cultivation	2	acre	\$2.94	\$5.89	\$5.89	
Fertilization						
Nitrogen (34-0-0)	573	pounds	\$0.18	\$102.28	\$102.28	
Phosphate (11-52-0)	48	pounds	\$0.18	\$8.57	\$8.57	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
Roundup	1.00	Quart	\$6.32	\$6.32	\$6.32	
Phorate	6.75	pounds	\$2.40	\$16.20	\$16.20	
2-4-D	2.50	pints	\$2.75	\$6.87	\$6.87	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Irrigation (flood)	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	26	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Chopping	1	acre	\$6.79	\$6.79	\$6.79	
Packing and pushing	1	acre	\$5.73	\$5.73	\$5.73	
Trucking	2.2	loads/acre	\$16.04	\$34.81	\$34.81	
Crop insurance (75% Yield, 100% Price)	1	acre	\$13.06	\$13.06	\$13.06	
Interest on operating capital			7.61%	\$6.08	\$6.08	
	Subtotal			\$319.90	\$319.90	
Ownership costs (excludes cost of land)				\$140.08	\$140.08	
Insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$129.83	\$129.83	\$129.83	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$459.98	\$459.98	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$348.46	\$348.46	
Above total costs				\$208.38	\$208.38	

Breakeven Table - Corn Silage

Net returns per acre above operating costs

Yield (Ton/Ac)	Selling Price (\$/ton)				
	\$20.80	\$25.80	\$30.80	\$35.80	\$40.80
20.20	\$100.26	\$201.26	\$302.26	\$403.26	\$504.26
20.70	\$110.66	\$214.16	\$317.66	\$421.16	\$524.66
21.20	\$121.06	\$227.06	\$333.06	\$439.06	\$545.06
21.70	\$131.46	\$239.96	\$348.46	\$456.96	\$565.46
22.20	\$141.86	\$252.86	\$363.86	\$474.86	\$585.86
22.70	\$152.26	\$265.76	\$379.26	\$492.76	\$606.26
23.20	\$162.66	\$278.66	\$394.66	\$510.66	\$626.66

Assumptions

1. Corn planted in late March and harvested in September.
2. Interest computed on land preparation and planting costs for 6 months and cultivation, fertilization, herbicide and irrigation costs for 3 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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