Utah State University
Extension Economics

Modify Colored Columns

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Corn silage	18.0	tons	$30.80	$554.40	$554.40	
Residue	-	AUM	$11.53	$0.00	$0.00	
Subtotal				$554.40	$554.40	
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	$12.71	$12.71	$12.71	
Seed	0.5	bags	$90.00	$45.00	$45.00	
Cultivation						
first	1	acre	$9.00	$9.00	$9.00	
second	1	acre	$9.00	$9.00	$9.00	
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						
Dual II Magnum	1.00	pint	$15.10	$15.10	$15.10	
Phorate	6.75	pounds	$2.40	$16.20	$16.20	
2-4-D	1.25	pints	$2.75	$3.44	$3.44	
Custom application	1	acre	$7.82	$7.82	$7.82	
Irrigation (wheel line)	5	irrigations				
Labor	1.67	hours	$10.00	$16.67	$16.67	
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	18.0	tons	$15.00	$270.00	$270.00	
Interest on operating capital			7.61%	$6.91	$6.91	
Subtotal				$510.40	$510.40	
Ownership costs (excludes cost of land)				$110.67	$110.67	
Insurance	1	acre	$2.00	$2.00	$2.00	
Machinery ownership costs	1	acre	$100.42	$100.42	$100.42	
Irrigation equipment costs	1	acre	$8.25	$8.25	$8.25	
Total costs				$621.07	$621.07	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				$44.00	$44.00	
Above total listed costs				-$66.67	-$66.67	

Breakeven Table - Corn Silage

Net returns per acre above operating costs

Yield	Selling Price ($/ton)				
(Ton/Ac)	**$20.80**	**$25.80**	**$30.80**	**$35.80**	**$40.80**
16.50	-$167.20	-$84.70	-$2.20	$80.30	$162.80
17.00	-$156.80	-$71.80	$13.20	$98.20	$183.20
17.50	-$146.40	-$58.90	$28.60	$116.10	$203.60
18.00	-$136.00	-$46.00	$44.00	$134.00	$224.00
18.50	-$125.60	-$33.10	$59.40	$151.90	$244.40
19.00	-$115.20	-$20.20	$74.80	$169.80	$264.80
19.50	-$104.80	-$7.30	$90.20	$187.70	$285.20

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 4 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. Custom rates on all harvest operations.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and Verl Bagley