

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Corn silage	18.3	tons	\$30.80	\$563.64	\$563.64	
Residue	-	AUM	\$0.00	\$0.00	\$0.00	
	Subtotal			\$563.64	\$563.64	
Operating costs						
Land preparation						
Plowing	1	acre	\$5.88	\$5.88	\$5.88	
Discing	1	acre	\$3.73	\$3.73	\$3.73	
Roller harrow	2	acre	\$3.64	\$7.28	\$7.28	
Land plane	1	acre	\$3.34	\$3.34	\$3.34	
Planting	1	acre	\$5.28	\$5.28	\$5.28	
Seed	0.5	bags	\$90.00	\$45.00	\$45.00	
Cultivation	1	acre	\$2.94	\$2.94	\$2.94	
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	1.00	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
Lasso	3.00	Quart	\$6.50	\$19.50	\$19.50	
Phorate	-	pounds	\$2.40	\$0.00	\$0.00	
2-4-D	2.50	pint	\$2.75	\$6.87	\$6.87	
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	\$2.20	\$2.20	\$2.20	
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	1.8	loads/acre	\$16.04	\$29.36	\$29.36	
Crop insurance (75% Yield, 100% Price)	1	acre	\$13.50	\$13.50	\$13.50	
Interest on operating capital			7.61%	\$5.05	\$5.05	
	Subtotal			\$255.26	\$255.26	
Ownership costs (excludes cost of land)				\$134.71	\$134.71	
Farm insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$124.46	\$124.46	\$124.46	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$389.97	\$389.97	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$308.38	\$308.38	
Above total listed costs				\$173.67	\$173.67	

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
16.80	\$94.18	\$178.18	\$262.18	\$346.18	\$430.18
17.30	\$104.58	\$191.08	\$277.58	\$364.08	\$450.58
17.80	\$114.98	\$203.98	\$292.98	\$381.98	\$470.98
18.30	\$125.38	\$216.88	\$308.38	\$399.88	\$491.38
18.80	\$135.78	\$229.78	\$323.78	\$417.78	\$511.78
19.30	\$146.18	\$242.68	\$339.18	\$435.68	\$532.18
19.80	\$156.58	\$255.58	\$354.58	\$453.58	\$552.58

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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