

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

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Receipts						
Corn silage	19.0	tons	\$30.80	\$585.20	\$585.20	
Residue	-	AUM	\$0.00	\$0.00	\$0.00	
	Subtotal			\$585.20	\$585.20	
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	0.5	bags	\$90.00	\$45.00	\$45.00	
Cultivation						
first	1	acre	\$2.94	\$2.94	\$2.94	
second	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	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)						
Labor	1.67	hours	\$10.00	\$16.67	\$16.67	
Water assessment	1	share	\$15.00	\$15.00	\$15.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	25	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	1.9	loads/acre	\$16.04	\$30.48	\$30.48	
Crop insurance (75% Yield, 100% Price)	1	acre	\$15.10	\$15.10	\$15.10	
Interest on operating capital			7.61%	\$6.45	\$6.45	
	Subtotal			\$283.49	\$283.49	
Ownership costs (excludes cost of land)						
Insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$122.43	\$122.43	\$122.43	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	Total costs			\$416.17	\$416.17	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$301.71	\$301.71	
Above total listed costs				\$169.03	\$169.03	

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
17.50	\$80.51	\$168.01	\$255.51	\$343.01	\$430.51
18.00	\$90.91	\$180.91	\$270.91	\$360.91	\$450.91
18.50	\$101.31	\$193.81	\$286.31	\$378.81	\$471.31
19.00	\$111.71	\$206.71	\$301.71	\$396.71	\$491.71
19.50	\$122.11	\$219.61	\$317.11	\$414.61	\$512.11
20.00	\$132.51	\$232.51	\$332.51	\$432.51	\$532.51
20.50	\$142.91	\$245.41	\$347.91	\$450.41	\$552.91

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.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and David Drake