

**Costs and Returns per acre from growing corn silage, 2006  
Morgan County**

	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
<b>Receipts</b>						
Corn silage	23.0	tons	\$30.80	\$708.40	\$708.40	
Residue	-	AUM	\$11.53	\$0.00	\$0.00	
	<b>Subtotal</b>			\$708.40	\$708.40	
<b>Operating costs</b>						
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	
Planting	1	acre	\$5.28	\$5.28	\$5.28	
Seed (round up ready)	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 50 lb/ac (34-0-0)	128	pounds	\$0.18	\$22.85	\$22.85	
Phosphate 25 lb/ac (11-50-2)	50	pounds	\$0.18	\$8.93	\$8.93	
Custom application	1	acre	\$7.82	\$7.82	\$7.82	
Pesticides/herbicides						
Roundup Ultra Max	1.50	quart	\$6.32	\$9.48	\$9.48	
Phorate	6.75	pounds	\$2.40	\$16.20	\$16.20	
2-4-D	1.25	pint	\$2.75	\$3.44	\$3.44	
Custom application	2	acre	\$7.82	\$15.64	\$15.64	
Irrigation (wheel line)						
Labor	1.67	hours	\$10.00	\$16.67	\$16.67	
Water assessment	3	acre feet	\$3.00	\$9.00	\$9.00	
Repairs/maintenance	1	acre	\$2.30	\$2.30	\$2.30	
Pumping	22	acre inch	\$0.00	\$0.00	\$0.00	
Harvesting						
Custom harvest	23.0	tons	\$15.00	\$345.00	\$345.00	
Interest on operating capital			7.61%	\$4.80	\$4.80	
	<b>Subtotal</b>			\$535.19	\$535.19	
Ownership costs (excludes cost of land)						
Insurance	1	acre	\$2.00	\$2.00	\$2.00	
Machinery ownership costs	1	acre	\$87.07	\$87.07	\$87.07	
Irrigation equipment costs	1	acre	\$8.25	\$8.25	\$8.25	
	<b>Total costs</b>			\$632.51	\$632.51	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				\$173.21	\$173.21	
Above total listed costs				\$75.89	\$75.89	

**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
21.50	-\$87.99	\$19.51	\$127.01	\$234.51	\$342.01
22.00	-\$77.59	\$32.41	\$142.41	\$252.41	\$362.41
22.50	-\$67.19	\$45.31	\$157.81	\$270.31	\$382.81
23.00	-\$56.79	\$58.21	\$173.21	\$288.21	\$403.21
23.50	-\$46.39	\$71.11	\$188.61	\$306.11	\$423.61
24.00	-\$35.99	\$84.01	\$204.01	\$324.01	\$444.01
24.50	-\$25.59	\$96.91	\$219.41	\$341.91	\$464.41

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.
6. Custom rates on all harvest operations.