

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

| | Quantity per acre | Unit | Price/cost per unit | Value/cost per acre | Base Value | Your Value |
|--|----------------------|-------------|------------------------|------------------------|------------|------------|
| Receipts | | | | | | |
| Corn silage | 20.3 | tons | \$30.80 | \$625.24 | \$625.24 | |
| Residue | - | AUM | \$0.00 | \$0.00 | \$0.00 | |
| | Subtotal | | | \$625.24 | \$625.24 | |
| Operating costs | | | | | | |
| Land preparation | | | | | | |
| Plowing | 1 | acre | \$5.88 | \$5.88 | \$5.88 | |
| Discing | 1 | acre | \$3.73 | \$3.73 | \$3.73 | |
| Land plane | 2 | acre | \$3.34 | \$6.69 | \$6.69 | |
| 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 | acre | \$7.82 | \$7.82 | \$7.82 | |
| Pesticides/herbicides | | | | | | |
| Lasso | - | quart | \$6.50 | \$0.00 | \$0.00 | |
| Phorate | - | pounds | \$2.40 | \$0.00 | \$0.00 | |
| 2-4-D | 1.25 | pint | \$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 | 24 | 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 | 2.0 | loads/acre | \$16.04 | \$32.57 | \$32.57 | |
| Crop insurance (75% Yield, 100% Price) | 1 | acre | \$15.64 | \$15.64 | \$15.64 | |
| Interest on operating capital | | | 7.61% | \$4.61 | \$4.61 | |
| | Subtotal | | | \$241.10 | \$241.10 | |
| Ownership costs (excludes cost of land) | | | | \$123.37 | \$123.37 | |
| Farm insurance | 1 | acre | \$2.00 | \$2.00 | \$2.00 | |
| Machinery ownership costs | 1 | acre | \$113.12 | \$113.12 | \$113.12 | |
| Irrigation equipment costs | 1 | acre | \$8.25 | \$8.25 | \$8.25 | |
| | Total costs | | | \$364.47 | \$364.47 | |
| Net returns to owner for unpaid labor, management, equity and risk | | | | | | |
| Above operating costs | | | | \$384.14 | \$384.14 | |
| Above total listed costs | | | | \$260.77 | \$260.77 | |

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 |
| 18.80 | \$149.94 | \$243.94 | \$337.94 | \$431.94 | \$525.94 |
| 19.30 | \$160.34 | \$256.84 | \$353.34 | \$449.84 | \$546.34 |
| 19.80 | \$170.74 | \$269.74 | \$368.74 | \$467.74 | \$566.74 |
| 20.30 | \$181.14 | \$282.64 | \$384.14 | \$485.64 | \$587.14 |
| 20.80 | \$191.54 | \$295.54 | \$399.54 | \$503.54 | \$607.54 |
| 21.30 | \$201.94 | \$308.44 | \$414.94 | \$521.44 | \$627.94 |
| 21.80 | \$212.34 | \$321.34 | \$430.34 | \$539.34 | \$648.34 |

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.