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

Plutte County

<table>
<thead>
<tr>
<th>Receipts</th>
<th>Quantity per acre</th>
<th>Unit</th>
<th>Price/cost per unit</th>
<th>Value/cost per acre</th>
<th>Base Value</th>
<th>Your Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn silage</td>
<td>18.0</td>
<td>tons</td>
<td>$30.80</td>
<td>$554.40</td>
<td>$554.40</td>
<td>$554.40</td>
</tr>
<tr>
<td>Residue</td>
<td>-</td>
<td>AUM</td>
<td>$11.53</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$554.40</td>
<td>$554.40</td>
</tr>
</tbody>
</table>

Operating costs

**Land preparation**
- Plowing: 1 acre, $5.88
- Discing: 1 acre, $3.34
- Land plane: 1 acre, $3.64
- Roller harrow: 2 acre, $7.28

**Planting**
- 1 acre, $12.71

**Seed**
- 0.5 bags, $90.00

**Cultivation**
- first: 1 acre, $9.00
- second: 1 acre, $9.00

**Fertilization**
- Nitrogen (34-0-0): 278 pounds, $0.18
- Phosphate (11-52-0): 48 pounds, $0.18
- Custom application: 1 acre, $7.82

**Pesticides/herbicides**
- Dual II Magnum: 1.00 pint, $15.10
- Phorate: 6.75 pounds, $2.40
- 2-4-D: 1.25 pints, $2.75
- Custom application: 1 acre, $7.82

**Irrigation (wheel line)**
- 5 irrigations, $10.00
- Labor: 1.67 hours, $10.00
- Water assessment: 1 share, $10.00
- Repairs/maintenance: 1 acre, $2.30
- Pumping: 25 acres inch, $0.00

**Harvesting**
- Custom: 18.0 tons, $15.00

**Interest on operating capital**
- 7.61%, $6.91

**Ownership costs (excludes cost of land)**
- Insurance: 1 acre, $2.00
- Machinery ownership costs: 1 acre, $100.42
- Irrigation equipment costs: 1 acre, $8.25

**Total costs**
- $621.07

Net returns to owner for unpaid labor, management, equity and risk
- Above operating costs: $44.00
- Above total listed costs: -$66.67

Breakeven Table - Corn Silage

<table>
<thead>
<tr>
<th>Selling Price ($/ton)</th>
<th>$20.80</th>
<th>$25.80</th>
<th>$30.80</th>
<th>$35.80</th>
<th>$40.80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield (Ton/AC)</td>
<td>-167.20</td>
<td>-84.70</td>
<td>-3.20</td>
<td>80.30</td>
<td>162.80</td>
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<tr>
<td>16.50</td>
<td>-156.80</td>
<td>-71.80</td>
<td>13.20</td>
<td>98.20</td>
<td>183.20</td>
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<tr>
<td>17.00</td>
<td>-146.40</td>
<td>-58.90</td>
<td>28.60</td>
<td>116.10</td>
<td>203.60</td>
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<tr>
<td>17.50</td>
<td>-136.00</td>
<td>-46.00</td>
<td>44.00</td>
<td>134.00</td>
<td>224.00</td>
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<tr>
<td>18.00</td>
<td>-125.60</td>
<td>-33.10</td>
<td>59.40</td>
<td>151.90</td>
<td>244.40</td>
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<tr>
<td>18.50</td>
<td>-115.20</td>
<td>-20.20</td>
<td>74.80</td>
<td>169.80</td>
<td>264.80</td>
</tr>
<tr>
<td>19.00</td>
<td>-104.80</td>
<td>-7.30</td>
<td>90.20</td>
<td>187.70</td>
<td>285.20</td>
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<tr>
<td>19.50</td>
<td>-94.40</td>
<td>15.80</td>
<td>105.60</td>
<td>205.50</td>
<td>306.00</td>
</tr>
</tbody>
</table>

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, 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