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

### Wayne 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>22.0</td>
<td>tons</td>
<td>$30.80</td>
<td>$677.60</td>
<td>$677.60</td>
<td>$677.60</td>
</tr>
<tr>
<td>Residue</td>
<td>-</td>
<td>AUM</td>
<td>$0.00</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>$677.60</td>
<td>$677.60</td>
</tr>
</tbody>
</table>

**Operating costs**

**Land preparation**
- Plowing: 1 acre $5.88
- Discing: 1 acre $3.73
- Land plane: 2 acres $3.34

**Planting**
- Seed: 0.5 bags $90.00
- Cultivation: 1 acre $5.28

**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**
- Lasso: - quart $6.50
- Phorate: - pounds $2.40
- 2-4-D: 1.25 pint $2.75
- Custom application: 1 acre $7.82

**Irrigation**
- (wheel line): 5 irrigations $10.00
- Water assessment: 1 share $10.00
- Repairs/maintenance: 1 acre $2.30
- Pumping: 24 acre inch $0.00

**Harvesting**
- Chopping: 1 acre $6.79
- Packing and pushing: 1 acre $5.73
- Trucking: 2.2 loads/acre $16.04

**Interest on operating capital**
- 7.61% $4.61

**Ownership costs (excludes cost of land)**
- Farm insurance: 1 acre $2.00
- Machinery ownership costs: 1 acre $224.67
- Irrigation equipment costs: 1 acre $8.25

**Total costs**
- $463.11

**Net returns to owner for unpaid labor, management, equity and risk**
- Above operating costs: $449.41
- Above total listed costs: $214.49

### Breakeven Table - Corn Silage

**Net returns per acre above operating costs**

<table>
<thead>
<tr>
<th>Yield (Ton/Ac)</th>
<th>Selling Price ($/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$20.80</td>
</tr>
<tr>
<td>20.50</td>
<td>$198.21</td>
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<tr>
<td>21.00</td>
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<td>21.50</td>
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<td>22.50</td>
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<td>23.00</td>
<td>$250.21</td>
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<tr>
<td>23.50</td>
<td>$260.61</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 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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