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

### Duchesne 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>19.2</td>
<td>tons</td>
<td>$30.80</td>
<td>$591.36</td>
<td>$591.36</td>
<td></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>$591.36</td>
<td>$591.36</td>
<td></td>
</tr>
</tbody>
</table>

### Operating costs

#### Land preparation

- **Plowing**
  - 1 acre
  - $5.88
- **Discing**
  - 1 acre
  - $3.73
- **Roller harrow**
  - 2 acre
  - $3.64
- **Planting**
  - 1 acre
  - $5.28
- **Seed**
  - 0.5 bags
  - $90.00
- **Cultivation**
  - 1 acre
  - $5.28

#### Fertilization

- **Nitrogen**
  - 278 pounds
  - $0.18
- **Phosphate**
  - 48 pounds
  - $0.18
- **Custom application**
  - 1 acre
  - $7.82

#### Pesticides/herbicides

- **Lasso**
  - - Quart
  - $6.50
- **Phorate**
  - 6.75 pounds
  - $2.40
- **Custom application**
  - 1 acre
  - $7.82
- **2-4-D**
  - 2.50 pints
  - $2.75
- **Custom application**
  - 1 acre
  - $7.82

#### Irrigation (wheel line)

- **Labor**
  - 1.67 hours
  - $10.00
- **Water assessment**
  - 1 share
  - $10.00
- **Repairs/maintenance**
  - 1 acre
  - $2.30
- **Pumping**
  - 25 acre inch
  - $0.00

#### Harvesting

- **Chopping**
  - 1 acre
  - $6.79
- **Packing and Pushing**
  - 1.0 acre
  - $5.73
- **Trucking**
  - 1.9 loads/acre
  - $16.04
- **Crop insurance (75% Yield, 100% Price)**
  - 1 acre
  - $13.06
- **Interest on operating capital**
  - 7.61%
  - $5.01

**Subtotal**

- $257.38

### Ownership costs (excludes cost of land)

- **Farm insurance**
  - 1 acre
  - $2.00
- **Machinery ownership costs**
  - 1 acre
  - $100.31
- **Irrigation equipment costs**
  - 1 acre
  - $8.25

**Total costs**

- $367.95

### Net returns to owner for unpaid labor, management, equity and risk

- **Above operating costs**
  - $333.98
- **Above total listed costs**
  - $223.41

## 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>
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</thead>
<tbody>
<tr>
<td>Yield (Ton/Ac)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.70</td>
<td>$110.78</td>
<td>$199.28</td>
<td>$287.78</td>
<td>$376.28</td>
<td>$464.78</td>
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<tr>
<td>18.20</td>
<td>$121.18</td>
<td>$212.18</td>
<td>$303.18</td>
<td>$394.18</td>
<td>$485.18</td>
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<tr>
<td>18.70</td>
<td>$131.58</td>
<td>$225.08</td>
<td>$318.58</td>
<td>$412.08</td>
<td>$505.58</td>
</tr>
<tr>
<td>19.20</td>
<td>$141.98</td>
<td>$237.98</td>
<td>$333.98</td>
<td>$429.98</td>
<td>$525.98</td>
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<tr>
<td>19.70</td>
<td>$152.38</td>
<td>$250.88</td>
<td>$349.38</td>
<td>$447.88</td>
<td>$546.38</td>
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<tr>
<td>20.20</td>
<td>$162.78</td>
<td>$263.78</td>
<td>$364.78</td>
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<td>$566.78</td>
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<tr>
<td>20.70</td>
<td>$173.18</td>
<td>$276.68</td>
<td>$380.18</td>
<td>$483.68</td>
<td>$587.18</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.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and Troy Cooper