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

### South Sanpete 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>18.3</td>
<td>tons</td>
<td>$30.80</td>
<td>$563.64</td>
<td>$563.64</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></td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$563.64</td>
<td>$563.64</td>
</tr>
</tbody>
</table>

### Operating costs

#### Land preparation
- **Plowing**: 1 acre @ $5.88 = $5.88
- **Discing**: 2 acres @ $3.64 = $7.28
- **Roller harrow**: 2 acres @ $3.34 = $6.68
- **Land plane**: 1 acre @ $3.34 = $3.34
- **Planting**: 1 acre @ $5.28 = $5.28

#### Planting
- **Seed**: 0.5 bags @ $90.00 = $45.00

#### Cultivation
- **Fertilization**
  - Nitrogen (34-0-0): 278 pounds @ $0.18 = $49.62
  - Phosphate (11-52-0): 48 pounds @ $0.18 = $8.57
- **Custom application**: 1.00 acre @ $7.82 = $7.82

#### Pesticides/herbicides
- **Lasso**: 3.00 Quart @ $6.50 = $19.50
- **Phorate**: 2.50 pint @ $2.75 = $6.87
- **2-4-D**: 1 acre @ $7.82 = $7.82

#### Irrigation (wheel line)
- **Labor**: 1.67 hours @ $10.00 = $16.67
- **Water assessment**: 1 share @ $2.00 = $2.00
- **Repairs/maintenance**: 1 acre @ $2.30 = $2.30
- **Pumping**: 26 acre inch @ $0.00 = $0.00

#### Harvesting
- **Chopping**: 1 acre @ $6.79 = $6.79
- **Packing and pushing**: 1 acre @ $5.73 = $5.73
- **Trucking**: 1.8 loads/acre @ $16.04 = $29.36

#### Crop insurance (75% Yield, 100% Price)
- **Interest on operating capital**: 7.61% @ $5.05 = $5.05

#### Ownership costs (excludes cost of land)
- **Machinery ownership costs**: 1 acre @ $124.46 = $124.46
- **Irrigation equipment costs**: 1 acre @ $8.25 = $8.25

#### **Subtotal**
- $134.71

### Total costs
- Above operating costs: $308.38
- Above total listed costs: $173.67

### Net returns to owner for unpaid labor, management, equity and risk
- Above operating costs: $308.38
- Above total listed costs: $173.67

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### Breakeven Table - Corn Silage

#### Net returns per acre above operating costs

<table>
<thead>
<tr>
<th>Yield (Ton/Ac)</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>16.80</td>
<td>$94.18</td>
<td>$178.18</td>
<td>$262.18</td>
<td>$346.18</td>
<td>$430.18</td>
</tr>
<tr>
<td>17.30</td>
<td>$104.58</td>
<td>$191.08</td>
<td>$277.58</td>
<td>$364.08</td>
<td>$450.58</td>
</tr>
<tr>
<td>18.00</td>
<td>$114.98</td>
<td>$203.98</td>
<td>$292.98</td>
<td>$381.98</td>
<td>$470.98</td>
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<tr>
<td>18.80</td>
<td>$125.38</td>
<td>$216.88</td>
<td>$308.38</td>
<td>$399.88</td>
<td>$491.38</td>
</tr>
<tr>
<td>19.30</td>
<td>$146.18</td>
<td>$242.68</td>
<td>$339.18</td>
<td>$435.68</td>
<td>$532.18</td>
</tr>
<tr>
<td>19.80</td>
<td>$156.58</td>
<td>$255.58</td>
<td>$354.58</td>
<td>$453.58</td>
<td>$552.58</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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Budget prepared by: E. Bruce Godfrey, Cody Bingham and Matt Palmer