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

Juab county

<table>
<thead>
<tr>
<th>Receipts</th>
<th>Quantity per acre</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>19.2 tons</td>
<td>$30.80</td>
<td>$591.36</td>
<td>$591.36</td>
</tr>
<tr>
<td>Residue</td>
<td>0.00</td>
<td>AUM</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>
</tr>
</tbody>
</table>

**Operating costs**

**Land preparation**

- **Plowing**
  - 1 acre
  - Price: $5.88
  - Value: $5.88
- **Discing**
  - 1 acre
  - Price: $3.73
  - Value: $3.73
- **Land plane**
  - 2 acre
  - Price: $3.64
  - Value: $7.28
  - **Roller harrow**
  - 2 acre
  - Price: $5.28
  - Value: $10.56

**Planting**

- **Seed**
  - 0.5 bags
  - Price: $90.00
  - Value: $45.00

**Subtotal**

**Operating costs**

**Fertilization**

- **Nitrogen (34-0-0)**
  - 205 pounds
  - Price: $0.18
  - Value: $36.90
- **Phosphate (11-50-2)**
  - 48 pounds
  - Price: $0.18
  - Value: $8.57

**Custom application**

- **Lasso**
  - 1 acre
  - Price: $3.64
  - Value: $7.28
- **Phorate**
  - 1.25 pints
  - Price: $3.44
  - Value: $3.44
- **2-4-D**
  - 1.25 pints
  - Price: $2.75
  - Value: $2.75

**Irrigation**

- **Lasso**
  - 5 irrigations
  - Price: $6.00
  - Value: $0.00
- **Phorate**
  - 5 irrigations
  - Price: $12.00
  - Value: $12.00

**Labor**

- **Water assessment**
  - 1 share
  - Price: $30.00
  - Value: $30.00
- **Repairs/maintenance**
  - 1 acre
  - Price: $2.30
  - Value: $2.30
- **Pumping**
  - 1.67 hours
  - Price: $16.67
  - Value: $16.67

**Harvesting**

- **Chopping**
  - 1 acre
  - Price: $6.79
  - Value: $6.79
- **Packing and pushing**
  - 1 acre
  - Price: $5.73
  - Value: $5.73
- **Hauling**
  - 1.9 loads/acre
  - Price: $30.80
  - Value: $30.80

**Crop insurance (75% Yield, 100% Price)**

- **1 acre**
  - Price: $14.15
  - Value: $14.15
  - **Interest on operating capital**
  - 7.61%
  - Price: $5.20
  - Value: $5.20

**Subtotal**

**Ownership costs (excludes cost of land)**

- **Insurance**
  - 1 acre
  - Price: $2.00
  - Value: $2.00
- **Machinery ownership cost**
  - 1 acre
  - Price: $92.43
  - Value: $92.43
- **Irrigation equipment costs**
  - 1 acre
  - Price: $8.25
  - Value: $8.25

**Subtotal**

**Total costs**

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

- **Above operating costs** $325.82
- **Above total listed costs** $223.14

**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>17.00</td>
<td>$102.62</td>
</tr>
<tr>
<td>18.20</td>
<td>$113.02</td>
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<tr>
<td>18.70</td>
<td>$123.42</td>
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<tr>
<td>19.20</td>
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<tr>
<td>19.70</td>
<td>$144.22</td>
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<tr>
<td>20.20</td>
<td>$154.62</td>
</tr>
<tr>
<td>20.70</td>
<td>$165.02</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 Jeff Banks