Costs and Returns per acre from growing corn for grain, 2006
Juab 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 grain</td>
<td>144.5</td>
<td>bushels</td>
<td>$2.87</td>
<td>$414.81</td>
<td>$414.81</td>
<td>$414.81</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>$414.81</td>
<td>$414.81</td>
<td>$414.81</td>
</tr>
</tbody>
</table>

**Operating costs**

- **Land preparation**
  - Plowing (every 3rd year): 1/3 acre, $5.88, $1.96, $1.96
  - Roller harrow: 1 acre, $3.64, $3.64, $3.64
  - Land plane: 1 acre, $3.34, $3.34, $3.34
- **Planting**: 1 acre, $5.28, $5.28, $5.28
- **Seed**: 0.5 bags, $90.00, $45.00, $45.00
- **Cultivations**
  - first: 1 acre, $2.94, $2.94, $2.94
  - second: 1 acre, $2.94, $2.94, $2.94
- **Fertilization**
  - Nitrogen (34-0-0): 561 pounds, $0.18, $100.14, $100.14
  - Phosphate (11-52-0): 163 pounds, $0.18, $29.10, $29.10
- **Custom application**
  - 1 acre, $7.82, $7.82, $7.82
- **Pesticides/herbicides**
  - Lasso: 3.00 quart, $6.50, $19.50, $19.50
  - Phorate: 6.75 pounds, $2.40, $16.20, $16.20
  - 2-4-D: 2.50 pints, $2.75, $6.87, $6.87
  - Custom application: 1 acre, $7.82, $7.82, $7.82
- **Irrigation**
  - (siphon): 5 irrigations, $10.00, $16.67, $16.67
  - Labor: 1.67 hours, $10.00, $16.67, $16.67
  - Water assessment: 1 share, $30.00, $30.00, $30.00
  - Repairs/maintenance: 1 acre, $2.30, $2.30, $2.30
  - Pumping: 27 acre inch, $0.00, $0.00, $0.00
- **Harvesting**
  - Custom combine: 1 acre, $30.00, $30.00, $30.00
  - Haul grain (custom): 144.5 bushel, $0.06, $8.67, $8.67
- **Crop insurance (75% Yield, 100% Price)**: 1 acre, $7.62, $7.62, $7.62
- **Interest on operating capital**: 7.61%, $6.86, $6.86

| **Subtotal**     | $354.67           | $354.67 | $354.67 |

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

- Farm insurance: 1 acre, $2.00, $2.00, $2.00
- Machinery ownership costs: 1 acre, $32.36, $32.36, $32.36
- Irrigation equipment costs: 1 acre, $8.25, $8.25, $8.25

| **Total costs**  | $397.28           | $397.28 | $397.28 |

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

- Above operating costs: $60.14, $60.14
- Above total listed costs: $17.53, $17.53

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**Breakeven Table - Corn Grain**

<table>
<thead>
<tr>
<th>Selling Price ($/Bu)</th>
<th>1.87</th>
<th>2.37</th>
<th>2.87</th>
<th>3.37</th>
<th>3.87</th>
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</thead>
<tbody>
<tr>
<td>129.50</td>
<td>$-111.52</td>
<td>$-46.77</td>
<td>$17.98</td>
<td>$82.73</td>
<td>$147.48</td>
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<tr>
<td>134.50</td>
<td>$-102.47</td>
<td>$-35.22</td>
<td>$32.03</td>
<td>$99.28</td>
<td>$166.53</td>
</tr>
<tr>
<td>139.50</td>
<td>$-93.42</td>
<td>$-23.67</td>
<td>$46.08</td>
<td>$115.83</td>
<td>$185.58</td>
</tr>
<tr>
<td>144.50</td>
<td>$-84.36</td>
<td>$-12.11</td>
<td>$60.14</td>
<td>$132.39</td>
<td>$204.64</td>
</tr>
<tr>
<td>149.50</td>
<td>$-75.31</td>
<td>$0.56</td>
<td>$74.19</td>
<td>$148.94</td>
<td>$223.69</td>
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<tr>
<td>154.50</td>
<td>$-66.26</td>
<td>$10.99</td>
<td>$88.24</td>
<td>$165.49</td>
<td>$242.74</td>
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<tr>
<td>159.50</td>
<td>$-57.20</td>
<td>$22.55</td>
<td>$102.30</td>
<td>$182.05</td>
<td>$261.80</td>
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</tbody>
</table>

**Assumptions**

1. Grain planted in late April and harvested in October.
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