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

## Weber County

### Receipts

<table>
<thead>
<tr>
<th>Crop Type</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>185.0</td>
<td>bushels</td>
<td>$3.31</td>
<td>$612.35</td>
<td>$612.35</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>
</tbody>
</table>

**Subtotal**

$612.35

### Operating costs

- **Land preparation**
  - Plowing: 1 acre, $5.88
  - Discing: 2 acres, $3.73
  - Roller harrow: 1 acre, $3.64
- **Planting**
  - 1 acre, $5.28
- **Seed**
  - 0.4 bags, $110.00
- **Cultivations**
  - First: 1 acre, $2.94
  - Second: 1 acre, $2.94
- **Fertilization**
  - Nitrogen (34-0-0): 455 pounds, $0.18
  - Phosphate (11-52-0): 48 pounds, $0.18
  - Potassium (0-0-60): 42 pounds, $0.15
- **Custom application**
  - 1 acre, $7.82
- **Pesticides/herbicides**
  - Bladex: 0.33 gallon, $46.00
  - Dual II Magnum: 2.00 pint, $15.10
  - Phorate: 6.75 pounds, $2.40
  - 2-4-D: 2.00 pint, $2.75
  - Custom application: 1 acre, $7.82
- **Irrigation (wheel line)**
  - Labor: 1.67 hours, $10.00
  - Water assessment: 1 share, $25.00
  - Repairs/maintenance: 1 acre, $2.30
  - Pumping: 27 acre inch, $0.00
- **Harvesting**
  - Custom combine: 1 acre, $30.00
  - Haul grain (custom): 185.0 bushel, $0.06
  - Drying: 185.0 bushel, $0.15
  - Crop insurance (75% Yield, 100% Price)
  - Interest on operating capital: 7.61%

**Subtotal**

$382.26

### Ownership costs (excludes cost of land)

- Farm insurance: 1 acre, $2.00
- Machinery ownership costs: 1 acre, $95.80
- Irrigation equipment costs: 1 acre, $8.25

**Total costs**

$488.31

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

- Above operating costs: $230.09
- Above total listed costs: $124.04

## Breakeven Table - Corn Grain

### Net returns per acre above operating costs

<table>
<thead>
<tr>
<th>Yield (Bu/Ac)</th>
<th>$2.31</th>
<th>$2.81</th>
<th>$3.31</th>
<th>$3.81</th>
<th>$4.31</th>
</tr>
</thead>
<tbody>
<tr>
<td>170.00</td>
<td>$13.59</td>
<td>$98.59</td>
<td>$183.59</td>
<td>$268.59</td>
<td>$353.59</td>
</tr>
<tr>
<td>175.00</td>
<td>$24.09</td>
<td>$111.59</td>
<td>$199.09</td>
<td>$286.59</td>
<td>$374.09</td>
</tr>
<tr>
<td>180.00</td>
<td>$34.59</td>
<td>$124.59</td>
<td>$214.59</td>
<td>$304.59</td>
<td>$394.59</td>
</tr>
<tr>
<td>185.00</td>
<td>$45.09</td>
<td>$137.59</td>
<td>$230.09</td>
<td>$322.59</td>
<td>$415.09</td>
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<tr>
<td>190.00</td>
<td>$55.59</td>
<td>$150.59</td>
<td>$245.59</td>
<td>$340.59</td>
<td>$435.59</td>
</tr>
<tr>
<td>195.00</td>
<td>$66.09</td>
<td>$163.59</td>
<td>$261.09</td>
<td>$358.59</td>
<td>$456.09</td>
</tr>
<tr>
<td>200.00</td>
<td>$76.59</td>
<td>$176.59</td>
<td>$276.59</td>
<td>$376.59</td>
<td>$476.59</td>
</tr>
</tbody>
</table>

### Assumptions

1. Corn planted in late March and harvested in October.
2. Interest computed on land preparation and planting costs for 6 months and cultivation/fertilization/herbicide/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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