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

Receipts

<table>
<thead>
<tr>
<th>Item</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>144.0</td>
<td>bushels</td>
<td>$2.87</td>
<td>$413.38</td>
<td>$413.38</td>
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</tr>
<tr>
<td>Residue</td>
<td>-</td>
<td>AUM</td>
<td>$11.53</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>$413.38</td>
<td>$413.38</td>
</tr>
</tbody>
</table>

Operating costs

- **Land preparation**
  - Plowing (every 3rd year) | 1/3 acre | $22.78 | $7.59 | $7.59 |
  - Roller harrow | 1 acre | $14.33 | $14.33 | $14.33 |
  - Land plane | 1 acre | $11.50 | $11.50 | $11.50 |
- **Planting** | 1 acre | $12.71 | $12.71 | $12.71 |
- **Seed** | 0.5 bags | $90.00 | $45.00 | $45.00 |
- **Cultivations**
  - first | 1 acre | $9.00 | $9.00 | $9.00 |
  - second | 1 acre | $9.00 | $9.00 | $9.00 |
- **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)** | 6 irrigations | $10.00 | $20.00 | $20.00 |
- **Labor** | 2.00 hours | $10.00 | $20.00 | $20.00 |
- **Water assessment** | 1 share | $10.00 | $10.00 | $10.00 |
- **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) | 144.0 bushel | $0.06 | $8.64 | $8.64 |
- **Crop insurance (75% Yield, 100% Price)** | 1 acre | $8.96 | $8.96 | $8.96 |
- **Interest on operating capital** | 7.61% | $7.99 | $7.99 | $7.99 |
| **Subtotal** | | | | | $384.47 | $384.47 |

Ownership costs (excludes cost of land)

- Farm insurance | 1 acre | $2.00 | $2.00 | $2.00 |
- Machinery ownership costs | 1 acre | $0.00 | $0.00 | $0.00 |
- Irrigation equipment costs | 1 acre | $8.25 | $8.25 | $8.25 |
| **Total costs** | | | | | $394.72 | $394.72 |

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

- Above operating costs | $28.91 | $28.91 |
- Above total listed costs | $18.66 | $18.66 |

Breakeven Table - Corn Grain

Net returns per acre above operating costs

<table>
<thead>
<tr>
<th>Yield (Bu/Ac)</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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<tbody>
<tr>
<td>129.00</td>
<td>-$142.25</td>
<td>-$77.75</td>
<td>-$13.25</td>
<td>$51.25</td>
<td>$115.75</td>
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<td>134.00</td>
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<td>-$66.20</td>
<td>$0.80</td>
<td>$67.80</td>
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<td>139.00</td>
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<td>144.00</td>
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<td>-$43.09</td>
<td>$28.91</td>
<td>$100.91</td>
<td>$172.91</td>
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<td>149.00</td>
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<td>$191.96</td>
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<tr>
<td>154.00</td>
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<td>-$19.99</td>
<td>$57.01</td>
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<tr>
<td>159.00</td>
<td>-$87.93</td>
<td>-$8.43</td>
<td>$71.07</td>
<td>$150.57</td>
<td>$230.07</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/irrigation costs for 3 months.
3. Custom rates for all field operations.
4. Only owned machinery are a loader and truck.

Budget prepared by: E. Bruce Godfrey, Cody Bingham and Dennis Worwood