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

### Beaver 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>
<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>$413.38</td>
<td>$413.38</td>
<td></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)**
- Labor 1.67 hours: $10.00 $16.67 $16.67
- 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: $10.34 $10.34 $10.34
- Interest on operating capital 7.61%: $6.48 $6.48

**Subtotal**

**Ownership costs (excludes cost of land)**
- Farm insurance 1 acre: $2.00 $2.00 $2.00
- Machinery ownership costs 1 acre: $58.64 $58.64 $58.64
- Irrigation equipment costs 1 acre: $8.25 $8.25 $8.25

**Total costs**

$405.87 $405.87

Net returns to owner for unpaid labor, management, equity and risk
- Above operating costs $76.39 $76.39
- Above total listed costs $7.50 $7.50

### Breakeven Table - Corn Grain

<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>-$94.77</td>
<td>-$30.27</td>
<td>$34.23</td>
<td>$98.73</td>
<td>$163.23</td>
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<tr>
<td>134.00</td>
<td>-$85.71</td>
<td>-$18.71</td>
<td>$48.29</td>
<td>$115.29</td>
<td>$182.29</td>
</tr>
<tr>
<td>139.00</td>
<td>-$76.66</td>
<td>-$7.16</td>
<td>$62.34</td>
<td>$131.84</td>
<td>$201.34</td>
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<tr>
<td>144.00</td>
<td>-$67.61</td>
<td>$4.39</td>
<td>$76.39</td>
<td>$148.39</td>
<td>$220.39</td>
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<tr>
<td>149.00</td>
<td>-$58.55</td>
<td>$15.95</td>
<td>$90.45</td>
<td>$164.95</td>
<td>$239.45</td>
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<tr>
<td>154.00</td>
<td>-$49.50</td>
<td>$27.50</td>
<td>$104.50</td>
<td>$181.50</td>
<td>$258.50</td>
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<tr>
<td>159.00</td>
<td>-$40.45</td>
<td>$39.05</td>
<td>$118.55</td>
<td>$198.05</td>
<td>$277.55</td>
</tr>
</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. 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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