Corn, Dryland
Prepared October 2015 for 2016 Growing Season by Ray Massey

<table>
<thead>
<tr>
<th></th>
<th>Units</th>
<th>Yield</th>
<th>Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary crop</td>
<td>bushels</td>
<td>135</td>
<td>3.71</td>
<td>500.85</td>
</tr>
<tr>
<td>By product crop</td>
<td>bushels</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Net payments (fixed)</td>
<td></td>
<td></td>
<td></td>
<td>0.00</td>
</tr>
<tr>
<td>Other income</td>
<td></td>
<td></td>
<td></td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Total income per acre</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>$500.85</strong></td>
</tr>
</tbody>
</table>

Operating costs per acre

- Seed: 99.38
- Fertilizer: 108.80
  - Nitrogen: 56.00
  - Phosphorus: 25.80
  - Potassium: 16.20
  - Other soil amendments: 10.80

- Crop protection: 60.00
  - Herbicide: 60.00
  - Insect-fungicide, None: 0.00
- Crop supplies, storage, and marketing: 1.00
- Crop consulting and insurance: 22.00
- Custom hire and rental: 6.00
- Machinery fuel, drying, and irrigation energy: 33.54
- Machinery repairs and maintenance: 15.84
- Operator and hired labor: 15.73
- Other expense: 0.00
- Operating interest: 10.87

**Operating costs per acre**: **$373.15**

Ownership costs per acre

- Farm business overhead: 4.53
- Machinery overhead: 25.70
- Machinery depreciation: 29.50
- Real estate charge: 140.00

**Ownership costs per acre**: **$199.73**

**Total costs per acre**: **$572.88**

Income over operating costs per acre: 127.70
Income over total costs per acre: -72.03

Operating costs per bushel: 2.76
Ownership costs per bushel: 1.48
Total costs per bushel: 4.24

The Crop Budget Generator is a product of the Food and Agricultural Policy Research Institute at the University of Missouri
www.fapri.missouri.edu
### Detailed Report

*Corn, grain*  
**Dryland 2016**  
10/28/2015

**Selected input quantities**  
(per acre)  
`Yield, bushels` 135.0  
`Seeding rate, count` 30,000  
`Nitrogen rate, lbs` 140  
`Phosphorus rate, lbs` 60  
`Potassium rate, lbs` 45  
`Lime rate, tons` 0.6  
`Sum of allocated labor, hours` 1.04  
`Irrigation, inches` 0

**Selected input prices**  
($ per unit)  
`Farm diesel, per gallon` 2.50  
`Operating interest, %` 6.00  
`Nitrogen, per lb` 0.40  
`Phosphorus, per lb` 0.43  
`Potassium, per lb` 0.36  
`Lime, per ton` 18.00  
`Skilled labor, per hour` 18.00  
`Land value, per acre` 4,000

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<table>
<thead>
<tr>
<th>Machine activity (not custom)</th>
<th>Labor Costs</th>
<th>Operating Costs</th>
<th>Ownership Costs</th>
<th>Total Costs</th>
<th>Trips per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field cultivator (35 ft); 310 4WD</td>
<td>0.04</td>
<td>0.54</td>
<td>2.83</td>
<td>4.34</td>
<td>7.17</td>
</tr>
<tr>
<td>V-Ripper 30” O.C., (17 ft); 310 4WD</td>
<td>0.03</td>
<td>0.39</td>
<td>1.75</td>
<td>5.27</td>
<td>7.02</td>
</tr>
<tr>
<td>Split row no-till planter (16/31 row 30/15’); 200 MFW</td>
<td>0.05</td>
<td>0.47</td>
<td>4.37</td>
<td>10.91</td>
<td>15.28</td>
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<tr>
<td>Boom sprayer (30 ft); 160 MFW</td>
<td>0.13</td>
<td>0.92</td>
<td>6.34</td>
<td>5.15</td>
<td>11.49</td>
</tr>
<tr>
<td>Anhydrous applicator (21 ft); 200 MFW</td>
<td>0.09</td>
<td>0.79</td>
<td>4.60</td>
<td>5.39</td>
<td>9.99</td>
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<tr>
<td>Combine, corn head (8 row); 275 HP Comb.</td>
<td>0.11</td>
<td>1.36</td>
<td>11.35</td>
<td>15.11</td>
<td>26.45</td>
</tr>
<tr>
<td>Grain cart (500 bushel); 200 MFW</td>
<td>0.06</td>
<td>0.49</td>
<td>2.64</td>
<td>3.05</td>
<td>5.68</td>
</tr>
<tr>
<td>Grain auger 10 in- 5000 bu/hr (70 ft); 130 MFW</td>
<td>0.03</td>
<td>0.15</td>
<td>0.94</td>
<td>0.95</td>
<td>1.89</td>
</tr>
<tr>
<td>Semi, tractor and trailer</td>
<td>0.78</td>
<td>4.16</td>
<td>3.25</td>
<td>7.41</td>
<td></td>
</tr>
<tr>
<td>Pickup truck</td>
<td>0.38</td>
<td>1.36</td>
<td>1.78</td>
<td>3.14</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>0.54</strong></td>
<td><strong>6.27</strong></td>
<td><strong>40.32</strong></td>
<td><strong>55.20</strong></td>
<td><strong>95.52</strong></td>
</tr>
</tbody>
</table>

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1. Farm business overhead includes liability insurance, utilities, accounting, etc. Machinery overhead is the sum of opportunity interest, property taxes, insurance, and housing. Machinery depreciation is a market value decline due to aging and usage. Thus, a portion of depreciation should be considered an operating costs for some decisions. Real estate charge includes land, improvements, taxes. Economic costs may differ from rental rates.

2. Machinery operating cost is the sum of fuel, repairs, maintenance, and the value of labor.

3. Machinery ownership cost is the sum of machinery overhead and depreciation (see page 1).