### ESTIMATED COSTS AND RETURNS PER ACRE, 2016
148 BUSHEL YIELD, AVERAGE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>QUANTITY</th>
<th>PRICE OR COST/UNIT</th>
<th>TOTAL PER ACRE</th>
<th>YOUR FARM</th>
</tr>
</thead>
</table>

#### 1. GROSS RECEIPTS
**CORN**
- BU. 148.00 $4.10 $606.80

**TOTAL RECEIPTS:** $606.80

#### 2. VARIABLE COSTS
- **SEED**
  - THOU. 31.00 $2.90 $89.90
- **FERTILIZER**
  - 18-46-0
    - LBS 140.00 $0.33 $46.20
  - NITROGEN (30% solution)
    - LBS 350.00 $0.19 $66.50
  - PHOSPHATE (0-46-0)
    - LBS 0.00 $0.32 $0.00
  - POTASH (0-0-60)
    - LBS 60.00 $0.25 $15.00
  - LIME (PRORATED)
    - TON 0.33 $40.00 $13.20
- **HERBICIDES**
  - ACRE 1.00 $34.72 $34.72
- **FUNGICIDES**
  - ACRE 1.00 $25.05 $25.05
- **SURFACTANT**
  - ACRE 1.00 $2.99 $2.99
- **DRYING (3 POINTS)**
  - BU. 148.00 $0.20 $29.60
- **HAULING**
  - BU. 148.00 $0.25 $37.00
- **TRACTOR/MACHINERY**
  - ACRE 1.00 $24.98 $24.98
- **SCOUT**
  - ACRE 1.00 $8.50 $8.50
- **LABOR**
  - HRS 1.24 $10.32 $12.80
- **INTEREST ON OP. CAP.**
  - DOL. $145.25 5.3% $7.63

**TOTAL VARIABLE COSTS:** $417.57

#### 3. INCOME ABOVE VARIABLE COSTS:
- **$189.23**

#### 4. FIXED COSTS
- **TRACTOR/MACHINERY**
  - ACRE 1.00 $40.77 $40.77

**TOTAL FIXED COSTS:** $40.77

#### 5. OTHER COSTS
- **GENERAL OVERHEAD**
  - DOL. $417.57 7.0% $29.23

**TOTAL OTHER COSTS:** $29.23

#### 6. TOTAL COSTS:
- **$487.57**

#### 7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:
- **$119.23**

<table>
<thead>
<tr>
<th>BREAK-EVEN YIELD</th>
<th>BREAK-EVEN PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>VARIABLE COSTS</td>
<td>102 BU. VARIABLE COSTS $2.82</td>
</tr>
<tr>
<td>TOTAL COSTS</td>
<td>119 BU. TOTAL COSTS $3.29</td>
</tr>
</tbody>
</table>

*This budget was developed for planning purposes only and does not include land rent.
*Each grower should calculate their cost based on their price of inputs and location.
### Per Acre Machinery and Labor Requirements for 148 Bushel Corn Strip-Till

<table>
<thead>
<tr>
<th>Month</th>
<th>Operation</th>
<th>Times</th>
<th>Labor</th>
<th>Machine</th>
<th>Variable Costs</th>
<th>Fixed Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>STRIP TILL RIG</td>
<td>1.00</td>
<td>0.10</td>
<td>0.09</td>
<td>$3.59</td>
<td>$4.05</td>
</tr>
<tr>
<td>5</td>
<td>PLANTER 8-ROW</td>
<td>1.00</td>
<td>0.10</td>
<td>0.09</td>
<td>$2.37</td>
<td>$3.37</td>
</tr>
<tr>
<td>4</td>
<td>HIBOY</td>
<td>5.00</td>
<td>0.17</td>
<td>0.15</td>
<td>$10.35</td>
<td>$17.95</td>
</tr>
<tr>
<td>9</td>
<td>COMBINE LARGE W/ HEADER 24'</td>
<td>1.00</td>
<td>0.18</td>
<td>0.16</td>
<td>$8.67</td>
<td>$15.40</td>
</tr>
<tr>
<td>9</td>
<td>GRAIN CART</td>
<td>1.00</td>
<td>0.32</td>
<td>0.29</td>
<td>$8.56</td>
<td>$7.15</td>
</tr>
</tbody>
</table>

**Unallocated Labor (Hrs./Ac.):** 0.69

### Income Above Variable Costs at Differing Yields and Prices

<table>
<thead>
<tr>
<th>Yield</th>
<th>Price ($/bu.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>133</td>
<td>$78.40</td>
</tr>
<tr>
<td>141</td>
<td>$104.23</td>
</tr>
<tr>
<td>148</td>
<td>$126.82</td>
</tr>
<tr>
<td>155</td>
<td>$149.42</td>
</tr>
<tr>
<td>163</td>
<td>$175.25</td>
</tr>
</tbody>
</table>

### Chemical Use Assumptions for 148 Bushel Corn Strip-Till

**Herbicides:**
- Glyphosate (Roundup ultra) QT 2.00 $4.71 $9.43 APRIL, MAY
- 2,4-D PT 2.00 $2.35 $4.71 APRIL, JUNE
- Atrazine (Aatrex) QT 2.50 $4.32 $10.79 MAY
- Dicamba (Banvel) PT 1.00 $9.79 $9.79 MAY

**Fungicides:**
- Azoxystrobin (Quadris) OZ 6.00 $3.01 $18.05 JUNE
- Propiconazole (Tilt) OZ 3.00 $2.33 $7.00 JUNE

**Total:** $59.77

*NC State does not endorse any company or chemical names associated to active ingredients.
*Cost assume no resistance management and low weed pressure. Growers should only apply fungicides as need.
**Chemicals listed are not a recommendation for chemical use but a representation of cost assumptions only.

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Special Thanks: Rod Gurganus, Matthew Tilley, Mike Carroll, Mitch Smith, and Rebecca Liverman
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