## Peanuts, Strip Till-Virginia-2017

### Estimated Costs and Returns Per Acre, 2017

**4000 Pound Yield State 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

**Peanuts**
- LBS 4000.00 $0.23 $900.00

**Total Receipts:** $900.00

### 2. Variable Costs

- **Seed**
  - LBS 130.00 $0.85 $110.50
- **Inoculant**
  - ACRE 1.00 $6.00 $6.00
- **Fertilizer**
  - Nitrogen LBS 15.00 $0.52 $7.80
  - Phosphate LBS 22.00 $0.69 $15.18
  - Potash LBS 35.00 $0.42 $14.70
  - Manganese LBS 3.00 $0.35 $1.05
  - Boron LBS 2.50 $1.35 $3.38
  - Lime (Prorated) TON 0.33 $66.00 $18.48
  - Gypsum TON 0.60 $58.70 $35.22
- **Herbicides**
  - ACRE 1.00 $59.95 $59.95
- **Insecticides**
  - ACRE 1.00 $16.39 $16.39
- **Fungicides**
  - ACRE 1.00 $79.04 $79.04
- **Surfactant**
  - ACRE 1.00 $7.61 $7.61
- **Scouting**
  - ACRE 1.00 $16.00 $16.00
- **Hauling**
  - TON 2.00 $12.00 $24.00
- **Drying & Cleaning**
  - TON 2.00 $45.00 $90.00
- **State Check-Off Fee**
  - TON 2.00 $3.00 $6.00
- **National Assessment**
  - ACRE 1.00 $8.60 $8.60
- **Crop Insurance**
  - ACRE 1.00 $30.00 $30.00
- **Tractor/Machinery**
  - ACRE 1.00 $65.52 $65.52
- **Labor**
  - HRS 3.85 $10.72 $41.27
- **Interest on Op. Cap.**
  - DOL. $244.05 4.8% $11.59

**Total Variable Costs:** $658.28

### 3. Income Above Variable Costs:

$241.72

### 4. Fixed Costs

**Tractor/Machinery**
- ACRE 1.00 $98.75 $98.75

**Total Fixed Costs:** $98.75

### 5. Other Costs

**General Overhead**
- DOL. $658.28 7.0% $46.08

**Total Other Costs:** $46.08

### 6. Total Costs:

$803.11

### 7. Net Returns to Land, Risk, and Management:

$96.89

**Break-Even Yield**

<table>
<thead>
<tr>
<th>Variable Costs</th>
<th>2768 LBS</th>
<th>Break-Even Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL COSTS</td>
<td>3521 LBS</td>
<td></td>
</tr>
</tbody>
</table>

* This budget was developed for planning purposes only and does not include land rent.

** National assessment is 1% of gross receipt and is also named national loss, promotion, research assessment.

***Fertilizer amounts listed refer to amounts of Nitrogen, Phosphorous, and Potassium required as replacement values per acre based on yield.
### PEANUTS - STRIP TILL - VIRGINIA

**PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 4000 YIELD PEANUTS**

<table>
<thead>
<tr>
<th>MONTH</th>
<th>OPERATION</th>
<th>TIMES</th>
<th>LABOR</th>
<th>MACHINE</th>
<th>VARIABLE</th>
<th>FIXED</th>
<th>COSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>STRIP TILL RIG</td>
<td>1.00</td>
<td>0.10</td>
<td>0.09</td>
<td>$3.59</td>
<td>$4.06</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>PEANUT PLANTER</td>
<td>1.00</td>
<td>0.23</td>
<td>0.21</td>
<td>$4.01</td>
<td>$5.62</td>
<td></td>
</tr>
<tr>
<td>5,6,7,8,9</td>
<td>HIBOY</td>
<td>8.00</td>
<td>0.26</td>
<td>0.24</td>
<td>$16.56</td>
<td>$28.72</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>DIGGER INVERTER 4-ROW</td>
<td>1.00</td>
<td>0.51</td>
<td>0.46</td>
<td>$11.00</td>
<td>$11.15</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>PEANUT COMBINE 4-ROW</td>
<td>1.00</td>
<td>0.61</td>
<td>0.55</td>
<td>$20.36</td>
<td>$49.21</td>
<td></td>
</tr>
</tbody>
</table>

**PER ACRE TOTALS FOR SELECTED OPERATIONS**

<table>
<thead>
<tr>
<th>TIMES</th>
<th>LABOR</th>
<th>MACHINE</th>
<th>VARIABLE</th>
<th>FIXED</th>
<th>COSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.71</td>
<td>1.55</td>
<td></td>
<td>$55.52</td>
<td>$98.75</td>
<td></td>
</tr>
</tbody>
</table>

**UNALLOCATED LABOR (HRS./AC.)**

2.14

### INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES

<table>
<thead>
<tr>
<th>YIELD</th>
<th>PRICE ($/lbs)</th>
<th>$0.19</th>
<th>$0.21</th>
<th>$0.23</th>
<th>$0.25</th>
<th>$0.26</th>
</tr>
</thead>
<tbody>
<tr>
<td>3400</td>
<td></td>
<td>$3.86</td>
<td>$70.74</td>
<td>$120.90</td>
<td>$204.50</td>
<td>$237.94</td>
</tr>
<tr>
<td>3700</td>
<td></td>
<td>$50.94</td>
<td>$123.72</td>
<td>$178.31</td>
<td>$269.28</td>
<td>$305.67</td>
</tr>
<tr>
<td>4000</td>
<td></td>
<td>$98.02</td>
<td>$176.70</td>
<td>$236.71</td>
<td>$334.06</td>
<td>$373.40</td>
</tr>
<tr>
<td>4300</td>
<td></td>
<td>$145.10</td>
<td>$229.68</td>
<td>$293.11</td>
<td>$398.84</td>
<td>$441.13</td>
</tr>
<tr>
<td>4600</td>
<td></td>
<td>$192.17</td>
<td>$282.66</td>
<td>$350.52</td>
<td>$463.62</td>
<td>$508.86</td>
</tr>
</tbody>
</table>

*NC STATE DOES NOT ENDORSE ANY COMPANY OR CHEMICAL NAMES ASSOCIATED TO ACTIVE INGREDIENTS

**CHEMICALS LISTED ARE NOT A RECOMMENDATION FOR CHEMICAL USE BUT A REPRESENTATION OF COST ASSUMPTIONS ONLY**

### PEST CONTROL USE ASSUMPTIONS FOR 4000 YIELD PEANUTS

**HERBICIDES:**
- **glyphosate (Roundup ultra)**
  - Unit: QT
  - Quantity: 1.00
  - Price/Unit: $4.19
  - Total Cost per Acre: $4.19
  - Month: APR
- **2,4-D**
  - Unit: PT
  - Quantity: 1.00
  - Price/Unit: $1.82
  - Total Cost per Acre: $1.82
  - Month: APR
- **paraquat (Gramoxone Extra)**
  - Unit: PT
  - Quantity: 3.00
  - Price/Unit: $2.97
  - Total Cost per Acre: $8.91
  - Month: APR
- **pendimethalin (Prowl)**
  - Unit: PT
  - Quantity: 0.50
  - Price/Unit: $4.13
  - Total Cost per Acre: $2.06
  - Month: APR
- **fluometuron (Valor)**
  - Unit: OZ
  - Quantity: 2.00
  - Price/Unit: $4.50
  - Total Cost per Acre: $9.00
  - Month: MAY
- **lactofen (Cobra)**
  - Unit: OZ
  - Quantity: 12.50
  - Price/Unit: $1.01
  - Total Cost per Acre: $12.59
  - Month: MAY
- **imazapic (Cadre)**
  - Unit: OZ
  - Quantity: 3.00
  - Price/Unit: $2.46
  - Total Cost per Acre: $7.38
  - Month: JUN
- **2,4-DB**
  - Unit: PT
  - Quantity: 4.00
  - Price/Unit: $3.50
  - Total Cost per Acre: $14.00
  - Month: JUN

**INSECTICIDES:**
- **imidacloprid (Admire Pro)**
  - Unit: OZ
  - Quantity: 9.00
  - Price/Unit: $1.00
  - Total Cost per Acre: $9.00
  - Month: MAY
- **lambda-cyhalothrin (Karat-Z)**
  - Unit: OZ
  - Quantity: 2.00
  - Price/Unit: $1.49
  - Total Cost per Acre: $2.99
  - Month: JUL
- **acephate (Orthene)**
  - Unit: OZ
  - Quantity: 12.00
  - Price/Unit: $0.37
  - Total Cost per Acre: $4.40
  - Month: AUG

**FUNGICIDES:**
- **chlorothalonil (Bravo)**
  - Unit: PT
  - Quantity: 2.72
  - Price/Unit: $5.13
  - Total Cost per Acre: $13.94
  - Month: JUL, SEP
- **pyraclostrobin (Headline)**
  - Unit: OZ
  - Quantity: 8.00
  - Price/Unit: $2.85
  - Total Cost per Acre: $22.81
  - Month: JUL
- **prothioconazole+tebuconazole (Provost)**
  - Unit: OZ
  - Quantity: 10.00
  - Price/Unit: $1.58
  - Total Cost per Acre: $15.82
  - Month: AUG
- **azoxystrobin (Abound)**
  - Unit: OZ
  - Quantity: 15.00
  - Price/Unit: $1.76
  - Total Cost per Acre: $26.47
  - Month: SEP

**TOTAL:** $149.37

Prepared by: Gary Bullen, David Jordan, Derek Washburn

North Carolina State University, Dept. Agricultural and Resource Economics