## CORN FOR SILAGE

### ESTIMATED COSTS AND RETURNS PER ACRE, 2010/2011

**16 TON YIELD**

<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>
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</tbody>
</table>

### 1. GROSS RECEIPTS

- **CORN**
  - **TON** 16.00
  - **PRICE OR COST/UNIT** $45.00
  - **TOTAL PER ACRE** $720.00

**TOTAL RECEIPTS:**

<table>
<thead>
<tr>
<th>UNIT</th>
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</table>

### 2. VARIABLE COSTS

- **SEED**
  - **THOU.** 28.00
  - **PRICE OR COST/UNIT** $2.50
  - **TOTAL PER ACRE** $70.00

- **FERTILIZER**
  - **NITROGEN**
    - **LBS** 50.00
    - **PRICE OR COST/UNIT** $0.77
    - **TOTAL PER ACRE** $38.50
  - **PHOSPHATE**
    - **LBS** 50.00
    - **PRICE OR COST/UNIT** $0.49
    - **TOTAL PER ACRE** $24.50
  - **POTASH**
    - **LBS** 50.00
    - **PRICE OR COST/UNIT** $0.33
    - **TOTAL PER ACRE** $16.50

- **LIQ. NITROGEN (SPREAD)**
  - **LBS** 100.00
  - **PRICE OR COST/UNIT** $0.40
  - **TOTAL PER ACRE** $40.00

- **LIME (PRORATED)**
  - **TON** 0.33
  - **PRICE OR COST/UNIT** $45.00
  - **TOTAL PER ACRE** $14.85

- **HERBICIDES**
  - **ACRE** 1.00
  - **PRICE OR COST/UNIT** $18.28
  - **TOTAL PER ACRE** $18.28

- **CUSTOM SPREAD**
  - **ACRE** 1.00
  - **PRICE OR COST/UNIT** $10.00
  - **TOTAL PER ACRE** $10.00

- **TRACTOR/MACHINERY**
  - **ACRE** 1.00
  - **PRICE OR COST/UNIT** $45.04
  - **TOTAL PER ACRE** $45.04

- **LABOR**
  - **HRS** 6.35
  - **PRICE OR COST/UNIT** $9.50
  - **TOTAL PER ACRE** $60.33

- **INTEREST ON OP. CAP.**
  - **DOL.** $169.00
  - **PRICE OR COST/UNIT** 5.0%
  - **TOTAL PER ACRE** $8.45

**TOTAL VARIABLE COSTS:**

<table>
<thead>
<tr>
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<th>PRICE OR COST/UNIT</th>
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</table>

### 3. INCOME ABOVE VARIABLE COSTS:

- **$373.55**
- **$0.00**

### 4. FIXED COSTS

- **TRACTOR/MACHINERY**
  - **ACRE** 1.00
  - **PRICE OR COST/UNIT** $57.31
  - **TOTAL PER ACRE** $57.31

**TOTAL FIXED COSTS:**

<table>
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</table>

### 5. OTHER COSTS

- **LAND RENT**
  - **ACRE** 1.00
  - **PRICE OR COST/UNIT** $40.00
  - **TOTAL PER ACRE** $40.00

- **GENERAL OVERHEAD**
  - **DOL.** $346.45
  - **PRICE OR COST/UNIT** 7.0%
  - **TOTAL PER ACRE** $24.25

**TOTAL OTHER COSTS:**

<table>
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</table>

### 6. TOTAL COSTS:

- **$468.01**
- **$0.00**

### 7. NET RETURNS TO RISK AND MANAGEMENT:

- **$251.99**
- **$0.00**

### BREAK-EVEN YIELD

- **VARIABLE COSTS**
  - **7.70** TON
- **TOTAL COSTS**
  - **10.40** TON

### BREAK-EVEN PRICE

- **VARIABLE COSTS**
  - **$21.65**
- **TOTAL COSTS**
  - **$29.25**

* *PLEASE NOTE: THIS BUDGET IS FOR PLANNING PURPOSES ONLY.*

**THIS BUDGET DOES NOT INCLUDE THE COST OF STORAGE AND HANDLING REQUIRED TO MAKE SILAGE.***

***LIME, PHOSPHATE AND POTASH RATES SHOULD BE BASED ON A SOIL TEST.*
## PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR CORN SILAGE

<table>
<thead>
<tr>
<th>MONTH</th>
<th>OPERATION</th>
<th>TIMES</th>
<th>LABOR HOURS</th>
<th>MACHINE HOURS</th>
<th>VARIABLE COSTS</th>
<th>FIXED COSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>SUBSOILER-PLANTER 6-ROW</td>
<td>1.00</td>
<td>0.20</td>
<td>0.18</td>
<td>$6.35</td>
<td>$7.92</td>
</tr>
<tr>
<td>3</td>
<td>HERBICIDE APPLICATOR 16'</td>
<td>2.00</td>
<td>0.24</td>
<td>0.22</td>
<td>$2.48</td>
<td>$2.32</td>
</tr>
<tr>
<td>3</td>
<td>FERTILIZER SPREADER</td>
<td>1.00</td>
<td>0.13</td>
<td>0.12</td>
<td>$1.62</td>
<td>$4.03</td>
</tr>
<tr>
<td>8</td>
<td>FORAGE HARVESTER</td>
<td>1.00</td>
<td>0.62</td>
<td>0.56</td>
<td>$17.10</td>
<td>$21.36</td>
</tr>
<tr>
<td>8</td>
<td>SILAGE WAGON</td>
<td>1.00</td>
<td>0.63</td>
<td>0.57</td>
<td>$9.46</td>
<td>$11.42</td>
</tr>
<tr>
<td>8</td>
<td>SILAGE BLOWER</td>
<td>1.00</td>
<td>0.52</td>
<td>0.47</td>
<td>$3.86</td>
<td>$4.22</td>
</tr>
<tr>
<td>8</td>
<td>DUMP TRUCK 12 TON</td>
<td>1.00</td>
<td>0.48</td>
<td>0.44</td>
<td>$4.17</td>
<td>$6.04</td>
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</table>

**PER ACRE TOTALS FOR SELECTED OPERATIONS**

<table>
<thead>
<tr>
<th>TIMES OVER HOURS</th>
<th>LABOR HOURS</th>
<th>MACHINE HOURS</th>
<th>VARIABLE COSTS</th>
<th>FIXED COSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.82</td>
<td>2.56</td>
<td></td>
<td>$45.04</td>
<td>$57.31</td>
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**UNALLOCATED LABOR (HRS./AC.)**

| 3.53 |

## INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES

<table>
<thead>
<tr>
<th>YIELD</th>
<th>$40.50</th>
<th>$42.75</th>
<th>$45.00</th>
<th>$47.25</th>
<th>$49.50</th>
</tr>
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<tbody>
<tr>
<td>TON</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>$220.55</td>
<td>$252.05</td>
<td>$283.55</td>
<td>$315.05</td>
<td>$346.55</td>
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<tr>
<td>15</td>
<td>$261.05</td>
<td>$294.80</td>
<td>$328.55</td>
<td>$362.30</td>
<td>$396.05</td>
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<tr>
<td>16</td>
<td>$301.55</td>
<td>$337.55</td>
<td>$373.55</td>
<td>$409.55</td>
<td>$445.55</td>
</tr>
<tr>
<td>17</td>
<td>$342.05</td>
<td>$380.30</td>
<td>$418.55</td>
<td>$456.80</td>
<td>$495.05</td>
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<tr>
<td>18</td>
<td>$382.55</td>
<td>$423.05</td>
<td>$463.55</td>
<td>$504.05</td>
<td>$544.55</td>
</tr>
</tbody>
</table>

## CHEMICAL USE ASSUMPTIONS FOR CORN SILAGE

<table>
<thead>
<tr>
<th>HERBICIDES:</th>
<th>UNIT</th>
<th>QUANTITY</th>
<th>PRICE OR TOTAL</th>
<th>PER ACRE</th>
<th>MONTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>s-metolachlor+atrazine (Bicep)</td>
<td>QT</td>
<td>1.30</td>
<td>$10.63</td>
<td>$13.81</td>
<td>MAR</td>
</tr>
<tr>
<td>atrazine (Aatrex)</td>
<td>QT</td>
<td>1.00</td>
<td>$4.47</td>
<td>$4.47</td>
<td>MAR</td>
</tr>
</tbody>
</table>

**TOTAL:** $18.28

The above listed chemicals are examples and do not imply exclusive recommendations by Clemson University. The "Pest Management Handbook" must be consulted. Production assumptions provided by Jay Crouch, Extension Agent, 803-276-1091 ext. 113, alfredc@clemson.edu

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