The Economic Importance of Food and Fiber

A Spotlight on Candler County, Georgia

Prepared for Candler County Cooperative Extension
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by:
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College of Agricultural and Environmental Sciences
The University of Georgia
Total Population
Candler County

2020 OPB Proj.: 14,216
2015 OPB Proj.: 12,561
2009 Estimate: 10,680
2000: 9,577
1990: 7,744
1980: 7,518
1970: 6,412
1960: 6,672
1950: 8,063
1940: 9,103
1930: 8,991

Primary data sources: U.S. Census Bureau, decennial censuses & estimate; GA Office of Planning & Budget projections.

- **LOSS**
- **0 – 9.1%**
- **9.1 – 20.1%**
- **20.1 – 40.0%**
- **40.0 – 77.4%**

Candler Co. = 11.5%
Avg. GA County = 12.0%
GA = 20.1%
US = 9.1%

Primary data source: U.S. Census Bureau (3/10)
% of Land in Cropland & Timberland

Candler Co. = 74%
GA Avg. Co. = 76%
GA Total = 78%
GA Metro = 68%
GA Nonmetro = 83%

Primary data sources:
U.S. Census of Agriculture, 2007
USDA Forest Service, 2007

Graphic by Center for Agribusiness & Economic Development, UGA
Components of 2009 Property Tax Gross Digest
Candler County

- Residential: 29.3%
- Mobile Home: 0.9%
- Motor Vehicle: 8.5%
- Public Utility: 3.4%
- Industrial: 1.8%
- Commercial: 14.9%
- Ag-Preferential-Environ-Conserv: 40.7%
- Timber *: 0.4%

Components of 2009 Property Tax Gross Digest:
- 40% Assessment Value of Property
- Gross Digest = $293,080,563
- Homestead & Property Exemptions = $52,858,949
- Net M&O Digest = $240,221,614
- Value of exempt property = $32,314,265

* Timber taxed at 100% based on previous year sales

Primary data source: GA Dept. of Revenue
## County Property Tax Digest Comparisons: 2009

<table>
<thead>
<tr>
<th>County</th>
<th>% Residential</th>
<th>% Agricultural</th>
<th>% Commercial</th>
<th>% Industrial</th>
<th>% Utility</th>
<th>% Motor Veh</th>
<th>% Mobile Home</th>
<th>% Timber</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANDLER</td>
<td>29.3</td>
<td>40.7</td>
<td>14.9</td>
<td>1.8</td>
<td>3.4</td>
<td>8.5</td>
<td>0.9</td>
<td>0.4</td>
</tr>
<tr>
<td>BULLOCH</td>
<td>43.2</td>
<td>13.0</td>
<td>23.1</td>
<td>10.2</td>
<td>2.4</td>
<td>7.0</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>EVANS</td>
<td>41.1</td>
<td>21.8</td>
<td>13.6</td>
<td>8.3</td>
<td>2.6</td>
<td>10.9</td>
<td>1.1</td>
<td>0.7</td>
</tr>
<tr>
<td>TATTNALL</td>
<td>38.8</td>
<td>31.4</td>
<td>10.2</td>
<td>2.8</td>
<td>4.7</td>
<td>9.1</td>
<td>1.8</td>
<td>1.2</td>
</tr>
<tr>
<td>TOOMBS</td>
<td>36.9</td>
<td>15.7</td>
<td>24.0</td>
<td>7.7</td>
<td>4.0</td>
<td>10.2</td>
<td>1.2</td>
<td>0.4</td>
</tr>
<tr>
<td>EMANUEL</td>
<td>32.2</td>
<td>32.7</td>
<td>11.7</td>
<td>6.2</td>
<td>3.4</td>
<td>10.2</td>
<td>1.6</td>
<td>2.0</td>
</tr>
<tr>
<td>Avg. GA Co.*</td>
<td>42.2</td>
<td>24.7</td>
<td>12.9</td>
<td>6.7</td>
<td>4.8</td>
<td>7.2</td>
<td>0.9</td>
<td>0.7</td>
</tr>
</tbody>
</table>

Primary data source: GA Dept. of Revenue
(* as of Oct. 2010 Avg. GA county figure preliminary until all county digests are verified.)
Revenue : Expenditure Ratios
$ of Revenue for Each $ of Expenditure

<table>
<thead>
<tr>
<th>Category</th>
<th>Cherokee</th>
<th>Jones</th>
<th>Carroll</th>
<th>Oconee</th>
<th>US Avg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farm/Forest</td>
<td>$1.01</td>
<td>$1.18</td>
<td>$1.01</td>
<td>$1.17</td>
<td>$2.86</td>
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<tr>
<td>Commercial</td>
<td>$1.17</td>
<td>$1.25</td>
<td>$1.93</td>
<td>$1.93</td>
<td>$3.19</td>
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<tr>
<td>Residential</td>
<td>$0.64</td>
<td>$0.87</td>
<td>$0.83</td>
<td>$0.90</td>
<td>$1.87</td>
</tr>
</tbody>
</table>

Agriculture in Georgia

- Georgia's 2008 Farm Gate Value was $11.9 billion. Adding the value of landscape services increased the total agricultural production value to $14 billion.

- Total food and fiber production and directly related businesses account for a $63 billion output impact on Georgia's $771 billion economy.
Production Agriculture: 2008

Georgia Total Agricultural Production Value
$11.9 Billion

2008 Farm Gate Value by County in Millions of Dollars

- Poultry & Eggs: 40.1%
- Landscape services: 15.4%
- Row & Forage Crops: 14.3%
- Livestock & Aqua-culture: 9.0%
- Vegetables: 6.0%
- Ornamental Horticulture: 4.9%
- Forestry & Products: 4.1%
- Other Income: 4.4%
- Fruits & Nuts: 1.9%

$0 - $20
$20 - $45
$45 - $80
$80 - $200
$200 - $442
What We Know about Candler County

2008 Farm Gate Value in Candler Co. was $43.2 million. Adding $431 thousand of landscape services increased the total agricultural production value to $43.7 million.

The highest value commodity group was row & forage crops, representing 50% of the total agricultural production value.
Candler County
2008 Agricultural Production Value

2008 Agricultural Production

- Fruits-Nuts: 4.1%
- Orn Hort: 5.1%
- Vegetables: 14.4%
- Forestry: 5.1%
- Livestock-Aquaculture: 8.6%
- Landscape services: 0.8%
- Row-Forage crops: 49.9%
- Other: 8.4%
- Poultry-Eggs: 3.6%

Total AG Value = $43.7 million

2008 Top Farm Gate Commodities

- Rest of commodities: 31.8%
- Onions: 16.3%
- Cotton: 13.3%
- Peanuts: 12.0%
- Pork: 4.9%
- Greenhouse: 4.4%
- Pecans: 4.3%
- Timber: 3.9%
- Tobacco: 3.8%
- Wheat: 2.6%
- Beef: 2.6%
Trends in Candler County:
Number of Farms & Average Farm Size

Source: 1945-2007 (quinquennial) Censuses of Agriculture
Trends in Candler County: Land in Farms, Harvested Cropland & Farms by Size

Land in Farms & Harvested Cropland
Candler County

Source: 1945-2007 (quinquennial) Censuses of Agriculture
How Do We Compare?

Georgia, Candler and Surrounding Counties
2008 Farm Gate Value

Sources: 2007 Census of Agriculture and 2008 Farm Gate Value Report
What We Did
County Economy Modeled

- The Center for Agribusiness and Economic Development performed an analysis of the county’s economy, focusing on the role of food and fiber.

- How much of the county’s total current economic output comes from food and fiber production and directly related processing? (A Snapshot of the Economy)

- What is the total (direct and indirect) Impact of food and fiber production and directly related industries?
## Candler County Economy
### Agriculture OUTPUT

<table>
<thead>
<tr>
<th>Industry</th>
<th>Output in millions $</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>43.652</td>
<td>10.4</td>
</tr>
<tr>
<td>Construction</td>
<td>39.625</td>
<td>9.4</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>57.471</td>
<td>13.7</td>
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<tr>
<td>Trans-Utilities-Info</td>
<td>97.931</td>
<td>23.3</td>
</tr>
<tr>
<td>Trade</td>
<td>39.222</td>
<td>9.3</td>
</tr>
<tr>
<td>Finance-Ins-RE</td>
<td>39.225</td>
<td>9.3</td>
</tr>
<tr>
<td>Services</td>
<td>64.964</td>
<td>15.5</td>
</tr>
<tr>
<td>Govt &amp; non-NAICS</td>
<td>37.926</td>
<td>9.0</td>
</tr>
</tbody>
</table>

**Total County Economic Output = $420 million**
## Candler County Economy
### Agriculture + Directly Related Businesses

<table>
<thead>
<tr>
<th>Category</th>
<th>Output in millions $</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture + Direct</td>
<td>68.335</td>
<td>16.3</td>
</tr>
<tr>
<td>Construction</td>
<td>39.625</td>
<td>9.4</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>32.787</td>
<td>7.8</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>97.931</td>
<td>23.3</td>
</tr>
<tr>
<td>Trade</td>
<td>39.222</td>
<td>9.3</td>
</tr>
<tr>
<td>Finance-Ins-Real Est</td>
<td>39.225</td>
<td>9.3</td>
</tr>
<tr>
<td>Services</td>
<td>64.964</td>
<td>15.5</td>
</tr>
<tr>
<td>Govt &amp; non-NAICS</td>
<td>37.926</td>
<td>9.0</td>
</tr>
</tbody>
</table>

**Total County Economic Output** = $420 million
Candler County 2008 Employment
Total Jobs = 4,426

- Construction: 365 (8.2%)
- Manufacturing: 165 (3.7%)
- Trans-Utilities-Info: 375 (8.5%)
- State & Federal Government: 391 (8.8%)
- Public Education: 372 (8.4%)
- Other Services: 706 (16.0%)
- Professional Services: 590 (13.3%)
- Finance-Ins-Real Est: 120 (2.7%)
- AG + Directly Related: 759 (17.1%)
An Economic Snapshot of Candler County

How much of Candler County’s total economic output comes from food and fiber production?

AG value alone of $43.7 million consisting of Farm Gate Value and landscape services comprises 10.4% of the county’s economy.

AG plus directly related businesses (ex. animal slaughtering, logging, ag services) comprise 16.3% of the county’s economy.
Food and Fiber Production and Directly Related Manufacturing as % of Total Output

Candler Co. 16.3%
What is the total (direct and indirect) impact of food and fiber production and directly related industries?

This scenario illustrates how other industries are affected by the presence of food and fiber in the county. The indirect impacts measure output created due to food and fiber production and processing in the county.
The *impact* numbers capture the ripple effects that food and fiber create in the county’s economy. Many other sectors rely in part on the existence of food and fiber for sales.
## Candler County
### Agriculture IMPACT

<table>
<thead>
<tr>
<th>Industry</th>
<th>Direct millions $</th>
<th>Indirect millions $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>43.652</td>
<td>0</td>
</tr>
<tr>
<td>Construction</td>
<td>0</td>
<td>.137</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0</td>
<td>.085</td>
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<tr>
<td>Trans-Utilities-Info</td>
<td>0</td>
<td>1.667</td>
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<tr>
<td>Trade</td>
<td>0</td>
<td>1.195</td>
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<tr>
<td>Finance-Ins-Real Est</td>
<td>0</td>
<td>2.363</td>
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<tr>
<td>Services</td>
<td>0</td>
<td>1.119</td>
</tr>
<tr>
<td>Govt &amp; non-NAICS</td>
<td>0</td>
<td>.430</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>43.652</strong></td>
<td><strong>6.995</strong></td>
</tr>
</tbody>
</table>

Total Impact of Production AG = $50.6 million
12.1% of total economy
# Candler County
Production Agriculture + Directly Related Businesses

**IMPACT**

<table>
<thead>
<tr>
<th>Industry</th>
<th>Direct millions $</th>
<th>Indirect millions $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture + Direct</td>
<td>68.335</td>
<td>0</td>
</tr>
<tr>
<td>Construction</td>
<td>0</td>
<td>.189</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0</td>
<td>.162</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>0</td>
<td>2.533</td>
</tr>
<tr>
<td>Trade</td>
<td>0</td>
<td>1.973</td>
</tr>
<tr>
<td>Finance-Ins-Real Est</td>
<td>0</td>
<td>3.182</td>
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<tr>
<td>Services</td>
<td>0</td>
<td>1.837</td>
</tr>
<tr>
<td>Govt &amp; non-NAICS</td>
<td>0</td>
<td>.525</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>68.335</strong></td>
<td><strong>10.402</strong></td>
</tr>
</tbody>
</table>

Total Impact of AG + Directly Related = $78.7 million
18.8% of total economy
### Candler County
Production Agriculture + Directly Related Industries

#### Employment IMPACT

<table>
<thead>
<tr>
<th>Industry</th>
<th>Direct</th>
<th>Indirect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture + Direct</td>
<td>759</td>
<td>0</td>
</tr>
<tr>
<td>Construction</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>Trade</td>
<td>0</td>
<td>29</td>
</tr>
<tr>
<td>Finance-Ins-Real Est</td>
<td>0</td>
<td>11</td>
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<tr>
<td>Services</td>
<td>0</td>
<td>37</td>
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<tr>
<td>Government</td>
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<td>2</td>
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</tbody>
</table>

**Total Impact of AG + Directly Related Employment = 852 Jobs**

19.3% of total employment
What These Numbers Mean: A Brief Explanation

- **Direct** impact is $68.3 million. This includes food and fiber production, processing and directly related manufacturing.

- **Indirect** impact from the Trade sector is $2 million. This captures the effects of farmers (direct source) buying supplies (seed, fertilizer, work boots) from local stores. These stores must increase their output to meet farmer demand.
As local stores increase their output, they may demand more stock from local wholesalers (also in the Trade sector). Local wholesalers demand more from local manufacturers, thus increasing activity in the Manufacturing sector.

Local stores also hire employees to assist farmers. They take home wages and buy groceries at the local store which increases demand there.
Candler County Food and Fiber Impact Conclusions

- The total *impact* of food and fiber production, processing and direct manufacturing is $78.7 million.

- The total county *output* is $420 million.

- Thus, food and fiber (directly and indirectly) account for 18.8% of the total county output.
Food and Fiber Production and Directly Related Manufacturing *IMPACT* as % of Total Output

Candler Co. 18.8%