The Economic Importance of Food and Fiber

A Spotlight on Jasper County, Georgia

Prepared for:
Jasper County Cooperative Extension
February, 2006

by:
The Center for Agribusiness and Economic Development
College of Agricultural and Environmental Sciences
The University of Georgia
Total Population
Jasper County

2010 Trend CAED 14,739
2010 Proj. OPB 15,212
2004 Est. 12,866
2000 11,426
1990 8,453
1980 7,553
1970 5,760
1960 6,135
1950 7,473
1940 8,772
1930 8,594

Primary data sources: U.S. Census Bureau, decennial censuses & estimate; CAED (Center for Agribusiness & Economic Development); OPB (State Office of Planning & Budget).
Population Change: 2000-2004

GA = 7.8%
US = 4.3%

Primary data source: U.S. Census Bureau
Percent of Land in Cropland & Forestland: 2002

GA Total = 78.5%
GA Avg. Co. = 77.3%
Metro Avg. Co. = 70.7%
Nonmetro Avg. Co. = 82.6%

Primary data sources:
U.S. Census of Agriculture, 2002
Forest Statistics for Georgia, 1997
Components of 2004 Property Tax Gross Digest
Jasper County

40% Assessment Value of Property
Gross Digest = $541,077,378
STATE Homestead & Property Exemptions = $129,144,742
Net M&O Digest = $411,932,636
Value of exempt property = $65,073,637

* Timber taxed at 100% based on previous year sales

Primary data source:
GA Dept. of Revenue
### County Property Tax Digest Comparisons: 2004

<table>
<thead>
<tr>
<th>County</th>
<th>% Residential</th>
<th>% Agricultural</th>
<th>% Commercial</th>
<th>% Industrial</th>
<th>% Motor Vehicle</th>
<th>% Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jasper</td>
<td>35.6</td>
<td>41.4</td>
<td>3.8</td>
<td>4.4</td>
<td>6.2</td>
<td>8.6</td>
</tr>
<tr>
<td>Butts</td>
<td>47.8</td>
<td>20.2</td>
<td>11.4</td>
<td>3.3</td>
<td>10.8</td>
<td>6.6</td>
</tr>
<tr>
<td>Jones</td>
<td>53.7</td>
<td>14.1</td>
<td>9.2</td>
<td>2.3</td>
<td>11.8</td>
<td>8.8</td>
</tr>
<tr>
<td>Monroe</td>
<td>20.7</td>
<td>8.0</td>
<td>4.3</td>
<td>0.1</td>
<td>3.8</td>
<td>63.1</td>
</tr>
<tr>
<td>Morgan</td>
<td>29.3</td>
<td>47.9</td>
<td>8.7</td>
<td>5.8</td>
<td>5.6</td>
<td>2.8</td>
</tr>
<tr>
<td>Newton</td>
<td>57.9</td>
<td>7.2</td>
<td>9.9</td>
<td>13.5</td>
<td>8.8</td>
<td>2.6</td>
</tr>
<tr>
<td>Putnam</td>
<td>64.0</td>
<td>7.7</td>
<td>8.0</td>
<td>3.0</td>
<td>5.8</td>
<td>11.5</td>
</tr>
<tr>
<td>Avg. GA Co.</td>
<td>40.6</td>
<td>20.8</td>
<td>13.2</td>
<td>7.9</td>
<td>9.0</td>
<td>8.4</td>
</tr>
</tbody>
</table>

Primary data source: GA Dept. of Revenue
Revenue : Expenditure Ratios
$ of Revenue for Each $ of Expenditure

- Farm/Forest:
  - Cherokee: $1.92
  - Jones: $1.17
  - Carroll: $1.25
  - Oconee: $1.01
  - US Avg: $2.86

- Commercial:
  - Cherokee: $3.19
  - Jones: $1.93
  - Carroll: $1.92
  - Oconee: $1.25
  - US Avg: $3.45

- Residential:
  - Cherokee: $0.64
  - Jones: $0.87
  - Carroll: $0.90
  - Oconee: $0.83
  - US Avg: $0.87

Agriculture in Georgia

- Georgia's 2004 Farm Gate Value was $10.3 billion. Adding the value of landscape services increased the total agricultural production value to $11.2 billion.

- Total food and fiber production and directly related businesses account for a $49.3 billion impact on Georgia's $557 billion economy.
Production Agriculture: 2004

Georgia Total Agricultural Production Value
$11.2 Billion

- Livestock & Aquaculture: 11.4%
- Vegetables: 6.3%
- Ornamental Horticulture: 5.7%
- Forestry & Products: 5.3%
- Fruits & Nuts: 2.0%
- Other Income: 4.1%
- Landscape services: 10.2%
- Poultry & Eggs: 41.5%
- Row & Forage Crops: 13.4%

2004 Farm Gate Value by County in Millions of Dollars

- $0 - $20
- $20 - $45
- $45 - $80
- $80 - $200
- $200 - $325
What We Know about Jasper County

- 2004 Farm Gate Value in Jasper Co. was $70.2 million. Adding $486 thousand of landscape services increased the total agricultural production value to $70.7 million.

- The highest value commodity group was livestock/aquaculture representing 27.5% of the total agricultural production value.
Jasper County
2004 Agricultural Production Value

2004 Agricultural Production
- Fruits-Nuts: 0.9%
- Om Hort: 19.2%
- Vegetables: 1.6%
- Forestry: 13.8%
- Livestock-Aquaculture: 27.5%
- Landscape services: 0.7%
- Poultry-Eggs: 24.6%
- Row-Forage crops: 4.4%
- Other: 7.4%

2004 Top Farm Gate Commodities
- Layers: 18.0%
- Horses: 10.9%
- Dairy: 10.7%
- Field Nursery: 11.4%
- Container Nursery: 6.6%
- Beef: 5.8%
- Spec Events: 3.4%
- Breeder Pullet Unit: 4.3%
- Hay: 3.4%
- Other commodities: 12.2%
- Timber: 13.3%
- Other commodities: 12.2%

Total AG Value = $70.7 million
Trends in Jasper County: Number of Farms & Average Farm Size

Number of Farms, Jasper County

Average Farm Size

Source: 1945-2002 (quinquennial) Censuses of Agriculture
Trends in Jasper County:
Land in Farms & Farms by Size

Source: 1945-2002 (quinquennial) Censuses of Agriculture
Trends in Jasper County
Number of Farms by Commodity

Source: 1987 to 2002 (quinquennial) Censuses of Agriculture
How Do We Compare?

Georgia, Jasper and Surrounding Counties
Farm Gate Value

Sources: 2002 Census of Agriculture and 2004 Farm Gate Value Report
What We Did

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

- 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?
### Jasper County Economy

#### Agriculture Output

<table>
<thead>
<tr>
<th>Sector</th>
<th>Output in $ Millions</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>72.658</td>
<td>18.8</td>
</tr>
<tr>
<td>Mining</td>
<td>3.863</td>
<td>1.0</td>
</tr>
<tr>
<td>Construction</td>
<td>23.734</td>
<td>6.1</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>175.665</td>
<td>45.2</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>11.748</td>
<td>3.0</td>
</tr>
<tr>
<td>Trade</td>
<td>8.169</td>
<td>2.1</td>
</tr>
<tr>
<td>Finance-Ins-RE</td>
<td>7.151</td>
<td>1.8</td>
</tr>
<tr>
<td>Services</td>
<td>33.107</td>
<td>8.5</td>
</tr>
<tr>
<td>Government</td>
<td>52.202</td>
<td>13.4</td>
</tr>
</tbody>
</table>

**Total County Economic Output = $388.3 million**
# Jasper County Economy

## Agriculture + Directly Related Businesses Output

<table>
<thead>
<tr>
<th>Industry</th>
<th>Output in $ Millions</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture + Direct</td>
<td>85.541</td>
<td>22.1</td>
</tr>
<tr>
<td>Mining</td>
<td>3.863</td>
<td>1.0</td>
</tr>
<tr>
<td>Construction</td>
<td>23.734</td>
<td>6.1</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>162.781</td>
<td>41.9</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>11.748</td>
<td>3.0</td>
</tr>
<tr>
<td>Trade</td>
<td>8.169</td>
<td>2.1</td>
</tr>
<tr>
<td>Finance-Ins-RE</td>
<td>7.151</td>
<td>1.8</td>
</tr>
<tr>
<td>Services</td>
<td>33.107</td>
<td>8.5</td>
</tr>
<tr>
<td>Government</td>
<td>52.202</td>
<td>13.4</td>
</tr>
</tbody>
</table>

**Total County Economic Output = $388.3 million**
An Economic Snapshot of Jasper County

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

- Agricultural output alone comprises 18.8% of the county’s economy.

- AG plus directly related businesses (ex. fertilizer mixing, sawmills, etc.) comprise 22.2% of the county’s economy.
Food and Fiber Production, Processing and Direct Manufacturing as % of Total Output

Jasper Co. 22.2%
What is the Impact?

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.
What Impact Means: A Brief Explanation

- 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.
## Jasper County

### Agriculture IMPACT

<table>
<thead>
<tr>
<th>Sector</th>
<th>Direct $ Millions</th>
<th>Indirect $ Millions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>70.716</td>
<td>0.000</td>
</tr>
<tr>
<td>Mining</td>
<td>0</td>
<td>0.001</td>
</tr>
<tr>
<td>Construction</td>
<td>0</td>
<td>0.341</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0</td>
<td>0.538</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>0</td>
<td>0.923</td>
</tr>
<tr>
<td>Trade</td>
<td>0</td>
<td>0.680</td>
</tr>
<tr>
<td>Finance-Ins-RE</td>
<td>0</td>
<td>0.790</td>
</tr>
<tr>
<td>Services</td>
<td>0</td>
<td>2.581</td>
</tr>
<tr>
<td>Government</td>
<td>0</td>
<td>3.012</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>70.716</strong></td>
<td><strong>8.893</strong></td>
</tr>
</tbody>
</table>

Total Impact of Production AG = $79.6 million—20.5% of total economy
## Jasper 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>85.837</td>
<td>0</td>
</tr>
<tr>
<td>Mining</td>
<td>0</td>
<td>0.001</td>
</tr>
<tr>
<td>Construction</td>
<td>0</td>
<td>0.374</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0</td>
<td>1.909</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>0</td>
<td>1.096</td>
</tr>
<tr>
<td>Trade</td>
<td>0</td>
<td>0.750</td>
</tr>
<tr>
<td>Finance-Ins-RE</td>
<td>0</td>
<td>0.902</td>
</tr>
<tr>
<td>Services</td>
<td>0</td>
<td>2.998</td>
</tr>
<tr>
<td>Government</td>
<td>0</td>
<td>3.333</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>85.837</strong></td>
<td><strong>11.365</strong></td>
</tr>
</tbody>
</table>

Total Impact of AG + Directly Related = $97.2 million—25% of total economy
## Jasper 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>1,157</td>
<td>0</td>
</tr>
<tr>
<td>Mining</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Construction</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>Trade</td>
<td>0</td>
<td>17</td>
</tr>
<tr>
<td>Finance-Ins-RE</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>Services</td>
<td>0</td>
<td>61</td>
</tr>
<tr>
<td>Government</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

**Total Impact of AG + Directly Related Employment = 1,269 Jobs**
What These Numbers Mean: A Brief Explanation

- **Direct** impact is $85.8 million. This includes food and fiber production, processing and directly related manufacturing.

- **Indirect** impact from the Trade sector is $750 thousand. 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.
The total impact of food and fiber production, processing and direct manufacturing is $97.2 million.

The total output is $388.6 million.

Thus, food and fiber (directly and indirectly) account for 25% of the total output.
Food and Fiber Production, Processing and Direct Manufacturing Impact as % of Total Output

Jasper Co. 25%
Contact Information

Prepared by:
Sue Boatright and Archie Flanders
Center for Agribusiness & Economic Development

“Adding Value to Georgia's Agricultural Economy Through Research and Extension“

To learn more about your county, go to:
http://www.caed.uga.edu/
...click on “Georgia Statistics System”

Special County Area Report
#06-08A
February, 2006