The Economic Importance of Food and Fiber

A Spotlight on Putnam County, Georgia

Prepared for Putnam County Cooperative Extension
January, 2011

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

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

Los Angeles County = 12.0%
GA = 20.1%
US = 9.1%

Primary data source: U.S. Census Bureau (3/10)
Population Change: 1930-2009

Primary data source: U.S. Census Bureau
% of Land in Cropland & Timberland

- 14 - 64%
- 64 - 75%
- 75 - 83%
- 83 - 92%
- 92 - 99%

Putnam Co. = 73%
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 Putnam County

- Commercial: 7.7%
- Industrial: 2.4%
- Public Utility: 7.6%
- Motor Vehicle: 3.8%
- Mobile Home: 0.3%
- Heavy Equipment: 0.01%
- Timber: 0.1%
- Ag-Preferential-Environ-Conserv: 8.7%
- Residential: 69.4%

40% Assessment Value of Property
gross digest = $1,781,271,534
Homestead & Property Exemptions = $246,123,679
Net M&O Digest = $1,535,147,855
Value of exempt property = $52,283,841

* 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>PUTNAM</td>
<td>69.3</td>
<td>8.7</td>
<td>7.7</td>
<td>2.4</td>
<td>7.6</td>
<td>3.8</td>
<td>0.3</td>
<td>0.1</td>
</tr>
<tr>
<td>BALDWIN</td>
<td>55.0</td>
<td>8.5</td>
<td>16.6</td>
<td>5.3</td>
<td>5.6</td>
<td>7.8</td>
<td>1.1</td>
<td>0.1</td>
</tr>
<tr>
<td>GREENE</td>
<td>69.8</td>
<td>15.2</td>
<td>8.1</td>
<td>2.2</td>
<td>1.4</td>
<td>2.7</td>
<td>0.2</td>
<td>0.3</td>
</tr>
<tr>
<td>JASPER</td>
<td>39.7</td>
<td>44.4</td>
<td>3.0</td>
<td>3.0</td>
<td>3.8</td>
<td>5.4</td>
<td>0.4</td>
<td>0.4</td>
</tr>
<tr>
<td>JONES</td>
<td>54.3</td>
<td>18.9</td>
<td>9.0</td>
<td>2.2</td>
<td>5.5</td>
<td>9.2</td>
<td>0.6</td>
<td>0.1</td>
</tr>
<tr>
<td>MORGAN</td>
<td>33.4</td>
<td>45.5</td>
<td>10.6</td>
<td>4.3</td>
<td>1.6</td>
<td>4.1</td>
<td>0.3</td>
<td>0.2</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 (preliminary avg. co. 12/20/10—Hart and Marion counties’ digests not verified)
Agriculture in Georgia

- Georgia's 2009 Farm Gate Value was $11.3 billion. Adding the $2.3 billion of landscape services increased the total agricultural production value to $13.6 billion.

- Total food and fiber production and directly related businesses account for a $68.8 billion output impact on Georgia's $727.3 billion economy.
Production Agriculture: 2009

Georgia Total Agricultural Production Value $13.6 Billion

- Fruits & Nuts: 2.7%
- Vegetables & Aquaculture: 6.7%
- Ornamental Horticulture: 5.1%
- Livestock & Forage Crops: 13.9%
- Row & Forage Crops: 13.9%
- Landscape Services: 17.0%
- Poultry & Eggs: 38.2%
- Other Income: 4.0%
- Forestry & Products: 3.7%

2009 Farm Gate Value by County in Millions of Dollars

- $0 - $20
- $20 - $45
- $45 - $80
- $80 - $200
- $200 - $443
Food and Fiber Production and Directly Related Manufacturing as % of Total Economic Output

- 0 - 10%
- 11 - 20%
- 21 - 30%
- 31 - 50%
- 51 - 77%
What We Know about Putnam County

- 2009 Farm Gate Value in Putnam Co. was $82.2 million. Adding $3.9 million of landscape services increased the total agricultural production value to $86.1 million.

- The highest value commodity group was poultry-eggs, representing 32.8% of the total agricultural production value.
Putnam County

2009 Agricultural Production Value

2009 Agricultural Production

- Orn Hort: 0.8%
- Fruits-Nuts: 0.1%
- Other: 7.1%
- Landscape services: 4.5%
- Vegetables: 0.5%
- Forestry: 6.1%
- Livestock-Aquaculture: 26.2%
- Row-Forage crops: 5.0%
- Poultry-Eggs: 49.8%

2009 Top Farm Gate Commodities

- Sweet Corn: 52.1%
- Layers: 52.1%
- Dairy: 19.0%
- Beef: 16.3%
- Timber: 6.3%
- Ag-Tourism: 3.2%
- Horses: 3.3%
- Hunting: 2.1%
- Leases: 3.1%
- Hay: 2.1%
- Rest of commodities: 2.5%

Total AG Value = $86.1 million
Trends in Putnam County: Number of Farms & Average Farm Size

Number of Farms, Putnam County

Average Farm Size

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

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

Georgia, Putnam and Surrounding Counties

Farm Gate Value

$ Per Farm (thousands) $ Per Acre

- Georgia: $1,109
- Putnam: $2,178
- Baldwin: $1,305
- Greene: $885
- Jasper: $150
- Jones: $395

Sources: 2007 Census of Agriculture and 2009 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?
## Putnam County Economy

### Agriculture OUTPUT

<table>
<thead>
<tr>
<th>Sector</th>
<th>Output in $</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>86,074,281</td>
<td>7.9%</td>
</tr>
<tr>
<td>Construction</td>
<td>109,402,970</td>
<td>10.0%</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>238,660,738</td>
<td>21.8%</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>232,405,645</td>
<td>21.2%</td>
</tr>
<tr>
<td>Trade</td>
<td>94,964,665</td>
<td>8.7%</td>
</tr>
<tr>
<td>Finance-Ins-RE</td>
<td>123,905,994</td>
<td>11.3%</td>
</tr>
<tr>
<td>Services</td>
<td>107,237,470</td>
<td>9.8%</td>
</tr>
<tr>
<td>Govt. &amp; non-NAICS</td>
<td>102,781,381</td>
<td>9.4%</td>
</tr>
</tbody>
</table>

**Total County Economic Output = $1.1 billion**
### Putnam County Economy

**Agriculture + Directly Related Businesses Output**

<table>
<thead>
<tr>
<th>Sector</th>
<th>Output in $</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture + Direct</td>
<td>226,939,007</td>
<td>20.7%</td>
</tr>
<tr>
<td>Construction</td>
<td>109,402,970</td>
<td>10.0%</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>97,796,013</td>
<td>8.9%</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>232,405,645</td>
<td>21.2%</td>
</tr>
<tr>
<td>Trade</td>
<td>94,964,665</td>
<td>8.7%</td>
</tr>
<tr>
<td>Finance-Ins-Real Est</td>
<td>123,905,994</td>
<td>11.3%</td>
</tr>
<tr>
<td>Services</td>
<td>107,237,470</td>
<td>9.8%</td>
</tr>
<tr>
<td>Govt. &amp; non-NAICS</td>
<td>102,781,381</td>
<td>9.4%</td>
</tr>
</tbody>
</table>

**Total County Economic Output = $1.1 billion**
Putnam County Employment
Total Jobs = 9,471

- Construction: 1,141 (12.0%)
- Manufacturing: 517 (5.5%)
- Trans-Utilities-Info: 662 (7.0%)
- Trade: 1,891 (20.0%)
- Finance-Ins-Real Est: 353 (3.7%)
- Professional Services: 584 (6.2%)
- Other Services: 1,460 (15.4%)
- Public Education: 916 (9.7%)
- State & Federal Government: 993 (10.5%)
- AG + Directly Related: 954 (10.1%)

Primary data source: Center for Agribusiness & Economic Development, UGA
An Economic Snapshot of Putnam County

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

- AG value alone of $86.1 million consisting of Farm Gate Value and landscape services comprises 7.9% of the county’s economy.

- AG plus directly related businesses (ex. pesticide/ag chemical mfg., sawmills, etc.) comprise 20.7% of the county’s economy.
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.
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.
## Putnam County
### Agriculture IMPACT

<table>
<thead>
<tr>
<th>Sector</th>
<th>Direct $</th>
<th>Indirect $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>86,074,281</td>
<td>0</td>
</tr>
<tr>
<td>Construction</td>
<td>0</td>
<td>580,300</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0</td>
<td>17,423,006</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>0</td>
<td>5,872,705</td>
</tr>
<tr>
<td>Trade</td>
<td>0</td>
<td>3,586,225</td>
</tr>
<tr>
<td>Finance-Ins-Real Est</td>
<td>0</td>
<td>7,961,614</td>
</tr>
<tr>
<td>Services</td>
<td>0</td>
<td>5,494,855</td>
</tr>
<tr>
<td>Government</td>
<td>0</td>
<td>768,774</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>86,074,281</strong></td>
<td><strong>41,687,479</strong></td>
</tr>
</tbody>
</table>

**Total Impact of Production AG = $127.8 million**

11.7% of total economy
## Putnam County

### Production Agriculture + Directly Related Businesses IMPACT

<table>
<thead>
<tr>
<th>NAICS Category</th>
<th>Direct $</th>
<th>Indirect $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture + Direct</td>
<td>226,939,007</td>
<td>0</td>
</tr>
<tr>
<td>Construction</td>
<td>0</td>
<td>1,388,074</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0</td>
<td>17,497,051</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>0</td>
<td>12,031,592</td>
</tr>
<tr>
<td>Trade</td>
<td>0</td>
<td>7,316,158</td>
</tr>
<tr>
<td>Finance-Ins-Real Est</td>
<td>0</td>
<td>12,262,859</td>
</tr>
<tr>
<td>Services</td>
<td>0</td>
<td>14,822,693</td>
</tr>
<tr>
<td>Govt. &amp; non-NAICS</td>
<td>0</td>
<td>1,424,729</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>226,939,007</strong></td>
<td><strong>66,743,154</strong></td>
</tr>
</tbody>
</table>

**Total Impact of AG + Directly Related = $293.7 million**

**26.8% of total economy**
## Putnam 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>954</td>
<td>0</td>
</tr>
<tr>
<td>Construction</td>
<td>0</td>
<td>17</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0</td>
<td>17</td>
</tr>
<tr>
<td>Trans-Utilities-Info</td>
<td>0</td>
<td>57</td>
</tr>
<tr>
<td>Trade</td>
<td>0</td>
<td>108</td>
</tr>
<tr>
<td>Finance-Ins-Real Est</td>
<td>0</td>
<td>41</td>
</tr>
<tr>
<td>Services</td>
<td>0</td>
<td>216</td>
</tr>
<tr>
<td>Govt. &amp; non-NAICS</td>
<td>0</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Impact of AG + Directly Related Employment = 1,416 Jobs
15% of total employment
What These Numbers Mean: A Brief Explanation

- **Direct** impact is $226.9 million. This includes food and fiber production, processing and directly related manufacturing.

- **Indirect** impact from the Trade sector is $7.3 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.
The total impact of food and fiber production, processing and directly-related manufacturing is $293.7 million.

The total county output is $1.1 billion.

Thus, food and fiber (directly and indirectly) account for 26.8% of the total county output.
Contact Information

Prepared by:
Sue Boatright and Sharon Kane
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
#1101A
January, 2011