Georgia’s Agricultural Biomass Production and Potential

Audrey Luke-Morgan & John C. McKissick
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The Center for Agribusiness and Economic Development
www.caed.uga.edu

College of Agricultural and Environmental Sciences
The University of Georgia
2006 Row & Forage Crops
Farm Gate Value
GA = $1.5 billion
2005 = $1.6 billion

Dominate Crops Currently – High Value Food and Fiber

Potential?
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>530</td>
<td>280</td>
<td>+89.3%</td>
<td>92,888</td>
<td>78,327</td>
<td>+18.5%</td>
</tr>
<tr>
<td>Cotton</td>
<td>1,050</td>
<td>1,400</td>
<td>-25.0%</td>
<td>11,058</td>
<td>15,274</td>
<td>-27.6%</td>
</tr>
<tr>
<td>Hay</td>
<td>600</td>
<td>650</td>
<td>-8.7%</td>
<td>61,789</td>
<td>60,807</td>
<td>+1.6%</td>
</tr>
<tr>
<td>Peanuts</td>
<td>520</td>
<td>580</td>
<td>-10.3%</td>
<td>1,187</td>
<td>1,243</td>
<td>-4.5%</td>
</tr>
<tr>
<td>Sorghum</td>
<td>55</td>
<td>40</td>
<td>+37.5%</td>
<td>7,765</td>
<td>6,522</td>
<td>+19.1%</td>
</tr>
<tr>
<td>Soybeans</td>
<td>220</td>
<td>155</td>
<td>+41.9%</td>
<td>64,081</td>
<td>75,522</td>
<td>-15.1%</td>
</tr>
<tr>
<td>Tobacco</td>
<td>20</td>
<td>17</td>
<td>+17.6%</td>
<td>356</td>
<td>338</td>
<td>+5.3%</td>
</tr>
<tr>
<td>Wheat</td>
<td>400</td>
<td>230</td>
<td>+73.9%</td>
<td>60,505</td>
<td>57,344</td>
<td>+5.5%</td>
</tr>
</tbody>
</table>

Produce about 50M Bushels, Use 250 M Bushels!

Increased Corn Acreage came at expense of Cotton

Ga. Typical of Deep SE States, Mid-South more Corn and Beans, Examples : Tenn. 780 TA Corn & 1,050 TA Beans, NC - 1,030 TA Corn & 1,375 TA Beans
Direct processing and high annual inputs of cotton and peanuts provides much local economic impact currently. If replaced by energy crops, may not replace total local economic impact!
Status - Total Agricultural By Product
Biomass Produced 2006 - 8.83 MT

- Estimated Biomass Available from Ag-Related Sources (Tons)
  - 8.83 Million Tons Available

- 9 Primary Ag By-Products –
  - Peanut Hulls to Poultry Litter
  - 2 BTU value less than coal
  - 7 BTU value less than NG
  - 9 BTU value less than Petro.

- Green – 10 counties
  - 500 tons/day

8.83 Million Tons Available
Total Agricultural By-Product Biomass Produced Less Than $25/ton

2006 - 2.86 Million Tons

Estimated Biomass Available from Ag-Related Sources (Tons) At a Cost of $25/ton or less

2.86 Million Tons Available
Total Agricultural By-Product Biomass Produced Less Than $65/ton 2006 - 8.33 Million Tons

Estimated Biomass Available from Ag-Related Sources (Tons) At a Cost of $65/ton or less

8.33 Million Tons Available
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Presented by:
John C. McKissick

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