Resilience and Spatial Patterns of Mississippi Cotton Product Manufacturing Industry

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Cotton Product Manufacturing Industry

• Critical importance of cotton industry clusters in its state economy in the United States (Weiher, 1977).

• Synergies to local rural communities of large-scale cotton production to local communities through cotton product manufacturing and retail industries
Cotton Product Manufacturing Industry

- Promising sign of the revitalization of the cotton product manufacturing industry in the U.S. (Lee et al., 2020).
- **Purpose**: investigate the resilience and competitiveness of the Mississippi cotton industry clusters
- **Objective**:
  - Identify the spatial patterns of cotton industry clusters in Mississippi
  - Identify Mississippi cotton industry cluster resilience factors.
Cotton Supply Chains

- Cotton Production
  - Textile Mills
    - Textile Product
      - Apparel Manufacturing
        - Consumers
Mississippi Cotton Product Manufacturing Industry by Employment and Establishment in 2019
Mississippi Textile Mills by Employment and Establishment in 2019
Cotton Product Manufacturing Industry Structure - Employment

The graph shows the trend in employment for different sectors of the cotton product manufacturing industry from 2002 to 2019.

- Textile Mills
- Textile Product
- Apparel Manufacturing

The employment in Textile Mills has shown a decrease over the years, whereas Textile Product and Apparel Manufacturing have relatively stable employment levels.
Cotton Product Manufacturing Industry Structure – Annual Wage

- Textile Mills
- Textile Product
- Apparel Manufacturing
Cotton Product Manufacturing Industry Structure – Establishment Size

![Graph showing the sum of employment per establishment from 2002 to 2019 for textile mills, textile products, and apparel manufacturing. The graph shows trends over time with industry_code and year dropdown options.]
What does this mean?

• Cotton Production and Product Manufacturing are not necessarily in the same location, instead located nearby.

• Cotton product manufacturing in Mississippi experienced a significant employment drop, but the textile product and apparel manufacturing became lean in sizes and increased annual salary per worker.
What does this mean?

• Employment in all sectors stabilized in the last decade and even shows a small increase in apparel manufacturing.
What is next?

• Increase the connections between cotton production and cotton product manufacturing industry by identifying the manufacturing industry's locations and product offerings.

• Provide technical training to workers to further increase their skills and income (e.g., streamline the curriculum between community college and university programs and provide training workshops).
References

• USDA-National Agricultural Statistics Service (NASS) and the Quarterly Census of Employment and Wages (QCEW) from the U.S. Bureau of Labor Statistics were used to build charts and figures.


Any Questions?

Thank you!

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