

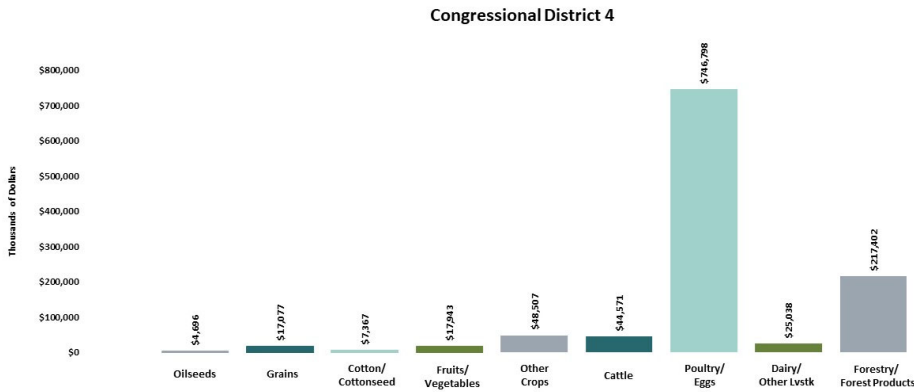
Economic Contribution of Agricultural Sales

MS Congressional District 4 (2022)

extension.msstate.edu/economic-profiles

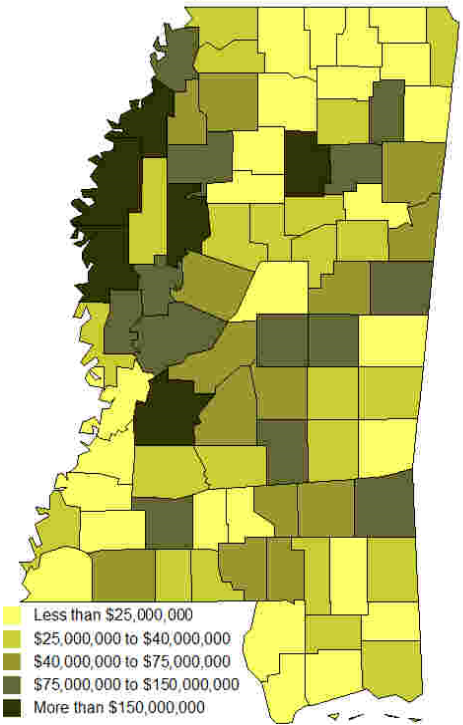


Commodity Output



Sales denoted in thousands of dollars
Source: IMPLAN 2021 Dataset

Total Value Added Attributable to Agricultural Production



Economic Impacts	Employment	Labor Income	Value Added	Industry Sales
Direct Effect	6,720.2	\$194,065,112	\$249,238,998	\$1,050,468,359
Indirect Effect	1,953.4	\$70,412,427	\$107,218,619	\$285,802,488
Induced Effect	757.0	\$29,290,592	\$65,951,615	\$118,143,634
Total Effect	9,430.6	\$293,768,131	\$422,409,232	\$1,454,414,481

Employment denotes number of annual jobs.

Macro Industry Total Effects

Agriculture	7,962.9	\$228,550,909	\$286,266,741	\$1,150,791,347
Construction	14.1	\$639,182	\$774,689	\$2,776,036
*TIPU	10.5	\$1,244,231	\$4,948,826	\$11,623,648
Manufacturing	29.0	\$2,184,064	\$5,821,483	\$45,467,666
Trade	358.0	\$17,473,057	\$37,025,105	\$76,805,769
Service	1,038.8	\$42,307,351	\$85,593,649	\$162,887,613
Government	16.3	\$1,328,648	\$1,844,333	\$3,507,172

*TIPU is Transportation, Infrastructure, and Public Utilities

County Rank in Mississippi

Commodity	Ranking
Oilseeds	N/A
Grains	N/A
Cotton/Cottonseed	N/A
Fruits/Vegetables	N/A
Other Crops	N/A
Cattle	N/A
Poultry/Eggs	N/A
Other Livestock/Dairy	N/A
Forestry/Logging	N/A

Industries Most Impacted by Agricultural Output	Employment	Labor Income	Value-Added	Industry Sales
Wholesale-Other nondurable goods merch whlsale	106.7	\$6,643,591	\$15,557,768	\$36,020,800
Support activities for agriculture and forestry	817.4	\$25,521,098	\$26,003,843	\$30,216,550
Other animal food mfg	21.9	\$1,413,549	\$2,942,727	\$27,489,398
Other real estate	102.1	\$2,494,990	\$8,684,508	\$21,468,318
Owner-occupied dwellings	0.0	\$0	\$16,168,900	\$19,513,185

Employment and Labor Income by Commodity

Commodity	Employment	Labor Income	Value Added	Industry Output
Oilseeds	26	\$5,046,911	\$2,526,983	\$4,718,704
Grains	127	\$10,588,380	\$4,276,251	\$22,052,379
Cotton/Cottonseed	98	\$1,905,234	\$2,189,229	\$7,479,297
Fruits/Vegetables	217	\$7,735,795	\$12,165,180	\$10,867,994
Other Crops	1,436	\$7,494,585	\$16,589,087	\$21,729,569
Cattle	555	\$3,057,901	\$13,779,989	\$43,149,599
Poultry/Eggs	1,359	\$30,167,304	\$48,885,219	\$729,897,395
Other Lvstk/Dairy	650	\$19,189,885	\$22,121,082	\$2,717,165
Forestry/ Logging	2,252	\$108,879,117	\$126,705,978	\$221,306,447
Total	6,720	\$194,065,112	\$249,238,998	\$1,063,918,549

Estimated Change in Local Taxes from Change in Sector Sales

Description	Employment Compensation	Taxes on Production and Imports	Households	Corporations
Social Insurance	\$0			
TOPI: Sales Tax		\$459,351		
TOPI: Property Tax				
TOPI: Other Tax		\$9,786,981		
Corporate Profits Tax				\$0
Personal Taxes			\$248,179	
Total Local Taxes	\$0	\$10,246,333	\$248,179	\$0

Estimated Change in State Taxes from Change in Sector Sales

Description	Employment Compensation	Taxes on Production and Imports	Households	Corporations
Social Insurance	\$14,841			
TOPI: Sales Tax		\$14,460,461		
TOPI: Property Tax				
TOPI: Other Tax		\$1,260,328		
Corporate Profits Tax				\$1,644,374
Personal Taxes			\$5,398,069	
Total State Taxes	\$14,841	\$15,720,789	\$5,398,069	\$1,644,374

Top 10 Counties by Commodity Groups - ranked by Sales (Output)

Oilseeds

County	Sales
Bolivar	\$240,163,663
Washington	\$239,176,774
Sunflower	\$213,722,814
Leflore	\$117,885,809
Tallahatchie	\$92,013,781
Coahoma	\$90,938,087
Sharkey	\$84,022,313
Tunica	\$65,369,338
Humphreys	\$55,495,788
Quitman	\$49,493,639

Grains

County	Sales
Washington	\$77,921,470
Yazoo	\$63,350,792
Bolivar	\$61,696,149
Leflore	\$61,386,474
Sunflower	\$60,133,255
Tallahatchie	\$51,829,443
Tunica	\$39,820,480
Coahoma	\$36,389,685
Noxubee	\$35,322,616
Sharkey	\$30,337,322

Fruits/Vegetables/Nuts

County	Sales
Calhoun	\$35,356,689
Chickasaw	\$21,866,454
Webster	\$6,839,526
Yalobusha	\$4,798,438
Pearl River	\$3,155,904
Wayne	\$3,114,100
Lamar	\$2,698,357
Tate	\$2,251,666
Forrest	\$2,190,355
Greene	\$2,113,413

Cotton/Cottonseed

County	Sales
Coahoma	\$84,316,304
Tallahatchie	\$48,448,510
Holmes	\$44,646,899
Leflore	\$42,187,990
Yazoo	\$29,232,943
Noxubee	\$26,778,103
Panola	\$26,769,965
Humphreys	\$23,399,646
Quitman	\$22,789,327
Tunica	\$20,995,375

Other Crops

County	Sales
George	\$13,513,934
Neshoba	\$9,939,933
Tate	\$9,735,152
Monroe	\$8,031,006
Holmes	\$7,996,082
Yazoo	\$7,981,424
Hinds	\$7,891,189
Pearl River	\$6,999,928
Panola	\$5,770,916
Carroll	\$5,639,727

Cattle and Calves

County	Sales
Covington	\$14,838,022
Scott	\$7,969,301
Lincoln	\$7,839,444
Jones	\$6,970,045
Tate	\$6,946,170
Walthall	\$6,793,894
Simpson	\$6,268,061
Pearl River	\$6,208,374
Neshoba	\$5,985,055
Marshall	\$5,979,814

Poultry/Eggs

County	Sales
Leake	\$405,106,025
Neshoba	\$317,620,337
Jones	\$300,141,607
Jasper	\$284,358,381
Smith	\$282,518,612
Covington	\$263,079,398
Wayne	\$257,859,056
Scott	\$213,262,154
Simpson	\$189,551,395
Newton	\$132,506,170

Other Animal Production*

County	Sales
Leflore	\$111,659,471
Noxubee	\$60,028,564
Sunflower	\$50,872,841
Chickasaw	\$42,223,630
Humphreys	\$38,383,491
Coahoma	\$23,125,350
Lowndes	\$19,231,266
Calhoun	\$18,177,748
Monroe	\$14,988,461
Rankin	\$9,532,200

Forestry/Logging

County	Sales
Hinds	\$154,921,242
Neshoba	\$82,276,301
Lincoln	\$63,558,829
Stone	\$49,257,258
Smith	\$45,725,865
Amite	\$42,216,494
Franklin	\$33,454,247
Yazoo	\$32,532,181
Tishomingo	\$28,803,843
Leake	\$28,585,873

*See Data Key

MISSISSIPPI COUNTY ECONOMIC CONTRIBUTION OF AGRICULTURAL SALES PROFILES DATA KEY

Data Key — All data were obtained from the 2022IMPLAN dataset (www.implan.com) except for commercial logging (2023 Harvest of Forest Products. John Auel. Mississippi Forestry Association. Accessed February 2024).

IMPLAN Sector Data

For this contribution analysis, data from the 2021 IMPLAN dataset were used. Each sector corresponds to several NAICS industry codes. Below is a non-exclusive list of the NAICS codes included in each of the IMPLAN agriculture sectors:

- **Oilseed Farming** — Field/seed production: soybean, canola, flaxseed, oilseed, sunflower, and oilseed/grain combinations.
- **Grain Farming** — Field/dry grain/seed production: rice, wheat, lentil, lima bean, pea, corn, barley, milo, oat, rye, broomcorn, and garbanzo.
- **Vegetable and Fruit Farming** — Field/seed production: sweet potato, carrot, potato, vegetable, melon, yam, bean, beet, cabbage, celery, collard, leafy greens, okra, pumpkin, pepper, tomato, grapes, citrus fruit, berry, fig, olive, tropical fruit, and other fruit/vegetable.
- **Greenhouse, nursery, and floriculture production** — Mushroom, herb, melon, Christmas tree, sprout, foliage, house plant, turf, sod, shrubby flower, and nursery growing.
- **Cotton Farming** — Field/seed production: cotton and cottonseed.
- **All other crop farming** — Field/seed production: peanut, hay, alfalfa, herbs, spices, and maple farming.
- **Beef cattle ranching and farming** — Beef cattle ranching and farming, calf production, cattle conditioning operations, dairy heifer replacement production, stocker and feeder calf production, fattening cattle, feed yards, and feed lots.
- **Poultry and egg production** — Egg, chicken, turkey, and duck production, and hatcheries.
- **Other Livestock/Dairy** — Made up of *Animal production, except cattle and poultry and eggs* and *Dairy cattle and milk production*. Includes dairy cattle and milk production, and the farming and production (including milk production) of many other animals such as quail, hogs, pigs, goats, catfish, bees, donkeys, sheep, horse, mules, deer, worms, among others.
- **Forestry, forest products, timber tract production, and logging** — Tract operations; gathering of aromatic wood gathering, balsam needles, bark, gum, moss, and forest products; growing trees; tree seed extracting; tree seed growing for reforestation; and harvesting moss or teaberries; cutting and transporting timber; rough wood manufacturing; field chipping; and rough wood mfg.

Economic Impact Estimates

The economic impact estimates contained in this profile were derived using the 2022 IMPLAN data and input-output relationships from IMPLAN (a proprietary economic impact estimation software package — <https://www.implan.com>) and information from the 2021 Harvest of Forest Products (<http://extension.msstate.edu/content/harvest-forest-products>). Definitions of individual economic effects are as follows:

Direct Effects—represent the initial change to industries considered relevant to the production agriculture and short rotation woody crops sectors.

Indirect Effects—represent changes in inter-industry transactions when supplying industries respond to demand changes from directly affected industries (the direct effects above).

Induced Effects—represent changes in local spending that result from income changes in the affected industry sectors.

Employment—annual average of monthly jobs in the industry. A job can be either part-time or full-time, and a person can hold more than one job (the employment or job count is not necessarily the same as the count of employed persons).

Labor Income—all employment income, including employee compensation (wages and benefits) and proprietor income.

Value Added—represents the difference between an industry's total output and the cost of its intermediate inputs. Intermediate inputs are calculated as gross output (sales or receipts plus other operating income plus inventory change) minus intermediate inputs (consumption of goods and services purchased from other industries or imported).

Output—represents the value of production (sales) by an industry in a calendar year.

Publication 3389-87 (05-24)

By **Alan Barefield**, Extension Professor, Department of Agricultural Economics, **Devon Mills**, Assistant Professor, Department of Agricultural Economics, **Sabhyata Lamichhane**, Assistant Professor, Department of Forestry, and **Abigail G. Lucas**, Student Assistant, Department of Agricultural Economics.

Copyright 2023 by Mississippi State University. All rights reserved. This publication may be copied and distributed without alteration for nonprofit educational purposes provided that credit is given to the Mississippi State University Extension Service.

Mississippi State University is an equal opportunity institution. Discrimination in university employment, programs, or activities based on race, color, ethnicity, sex, pregnancy, religion, national origin, disability, age, sexual orientation, gender identity, genetic information, status as a U.S. veteran, or any other status protected by applicable law is prohibited.

Extension Service of Mississippi State University, cooperating with U.S. Department of Agriculture. Published in furtherance of Acts of Congress, May 8 and June 30, 1914. ANGUS CATCHOT, Director.