

FY2019 County Health Economics Profile

Madison County, MS

extension.msstate.edu/economic-profiles



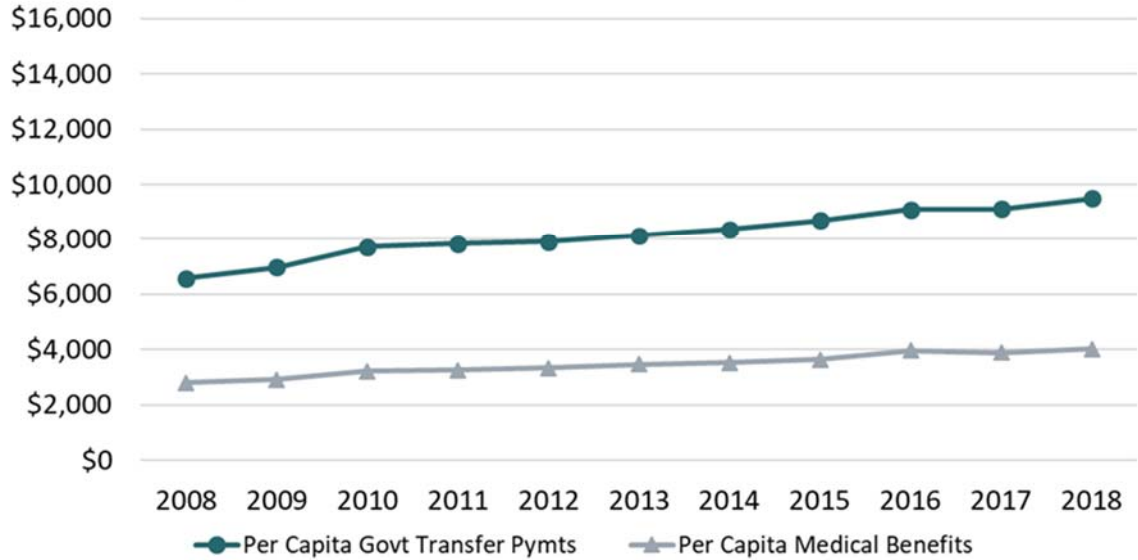
Prepared by
Alan Barefield, Ph.D.
Thaddeus A. Webb
Emily V. Durr
Samantha K. Seamon

Department of Agricultural Economics
Mississippi State University

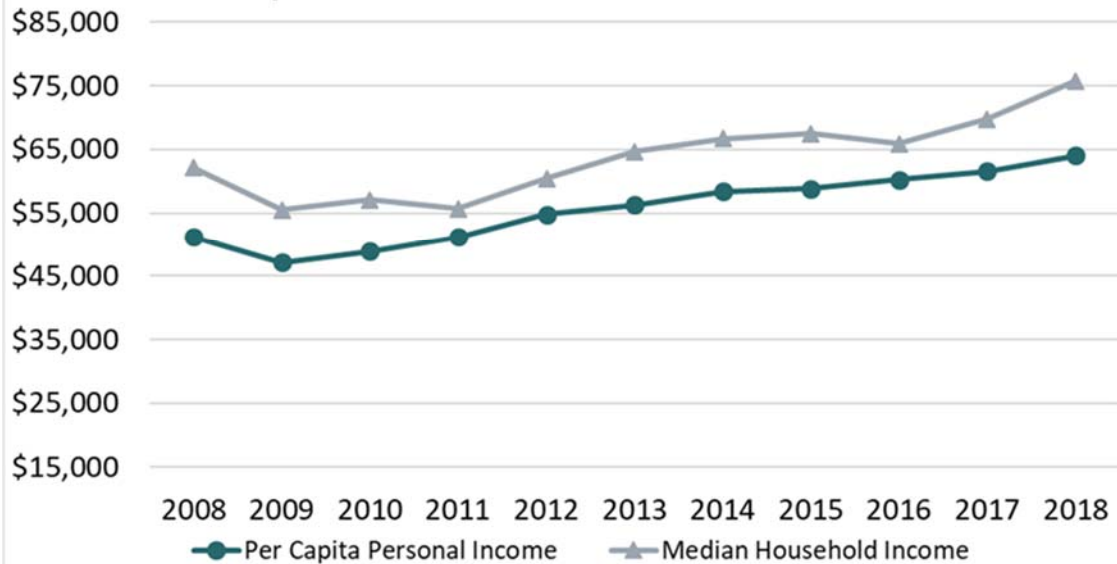
Demographics*	County	Mississippi	United States
Total Population, 2019 (EMSI Population Estimates)	105,630	2,986,530	327,167,434
Percent Change in Total Population, 2015-2019 (EMSI Population Estimates)	4.7%	-0.1%	2.8%
Percent Non-white Population, 2018 (2014-2018 ACS 5-year estimates)	42.9%	41.4%	27.3%
Percent Population Over 64 years, 2018 (2014-2018 ACS 5-year estimates)	12.2%	15.1%	15.2%
Percent of Population in Poverty, 2018 (SAIPE)	10.7%	19.9%	13.4%
Percent of Total Population under 18 in Poverty, 2018 (SAIPE)	14.3%	27.6%	18.4%
Current Median Household Income, 2018 (SAIPE)	\$69,820	\$43,595	\$60,336
Not Covered by Health Insurance, 2018 (2014-2018 ACS 5-year estimates)	7.1%	12.7%	9.4%
Private Health Insurance Cov Alone, 2018 (2014-2018 ACS 5-year estimates)	61.2%	46.6%	55.0%
Public Health Insurance Cov Alone, 2018 (2014-2018 ACS 5-year estimates)	14.2%	18.7%	16.9%
Other Health Insurance Coverage, 2018 (2014-2018 ACS 5-year estimates)	17.5%	22.0%	18.7%

*Data source acronyms are explained in the Data Key.

**Per Capita Govt Transfer Payments and Medical Benefits
Lowndes County**



**Median Household Income and Per Capita Personal Income
Madison County**



**Health Occupations per 100,000
Population (2019)— EMSI**

Sector	Occ/100k
Physicians/Surgeons (all types)	166
Reg Nurses/Spec Nurses/Phys Assts	687
Lic Practical/Vocational Nurses	351
Technologists/Technicians (all types)	472
Nursing/Psy/Home Health Aides	661
Other Practitioners	221
All Other	788

Economic Impact of Healthcare Sector

Sector	Direct Impact	Multiplier	Total Impact
Output (Sales)	\$557,212,544	1.82	\$1,012,497,472
Labor Income	\$356,151,936	1.37	\$487,710,848
Employment	4,978	1.66	8,259

Economic Impact of Healthcare Sector

Sector*	Sector Description	Jobs	Earnings	Value Added	Output
490	Hospitals	243	\$15,834,758	\$18,988,296	\$36,968,076
486	Outpatient Care Centers	187	\$12,069,983	\$15,989,016	\$28,164,150
483-5	Offices of providers	798	\$65,656,500	\$102,636,752	\$164,452,832
487	Medical/Diagnostic Labs	157	\$7,470,289	\$17,835,220	\$29,622,668
491	Nursing/Residential Care Facilities	1,618	\$49,938,004	\$63,151,372	\$99,319,176
488	Home Health Care Services	477	\$18,274,910	\$37,035,400	\$34,073,824

Top Health Employment Sectors

NAICS Code	Sector	2019 Jobs	Annual Earn/Job
6231	Nurs Care Fac (Skilled Nursing Fac)	757	\$34,230
6213	Offices of Other Health Prac	756	\$51,614
6211	Offices of Physicians	745	\$85,396
6233	Cont Care Ret Comm/Asst Eld Liv	525	\$29,371
6216	Home Health Care Services	450	\$39,902
6212	Offices of Dentists	391	\$68,381
6232	Res Int/Dev Dis/Ment Hlth/Sub Ab	263	\$29,742
**	Gen Med/Surgical Hospitals	222	\$68,027

**Includes privately-owned, state-owned, and local government-owned hospitals.

Top Health Occupation Sectors

SOC Code	Sector	2019 Jobs	Avg Hrly Earnings
	Total Jobs	3,642	\$28.27
29-1140	Registered Nurses	692	\$29.82
31-1010	Nurs/Psych/Home Hlth Aide	601	\$11.60
29-2060	Lic Prac/Voc Nurses	360	\$17.57
29-1120	Therapists	340	\$34.99
29-2050	Health Pract Support Tech	240	\$17.02
29-1060	Physicians and Surgeons	157	\$75.58
29-1050	Pharmacists	100	\$66.19

MISSISSIPPI COUNTY HEALTH ECONOMICS PROFILES

DATA KEY

Data Acronyms and Abbreviations

ACS — American Community Survey (5-year estimates are used for all ACS variables). Data can be accessed through <https://data.census.gov>.

SAIPE — Small Area Income and Poverty Estimates. <https://www.census.gov/programs-surveys/saipe.html>

BEA — Bureau of Economic Analysis. <https://www.bea.gov/data/by-place-county-metro-local>

EMSI — Proprietary data software company. <http://economicmodeling.com>

Total Population, 2019

Data were obtained from the EMSI Population Estimates.

<http://economicmodeling.com>

Percent Change in Total Population, 2015 to 2019

Data were obtained from the EMSI Population Estimates.

<http://economicmodeling.com>

Percent of the Population that is Non-white, 2018

Data were obtained from the 2014 to 2018 American Community Survey five-year estimates (Table B02001). This table depicts the population at the county, state, and national levels by race.

<https://data.census.gov>

Percent of the Population that is Older than 64 years, 2018

Data were obtained from the 2014 to 2018 American Community Survey five-year estimates (Table B01001). This table depicts the population at the county, state, and national levels by age and sex.

<https://data.census.gov>

Percent of the Population in Poverty, 2018 Estimate

Data were obtained from the Model-based Small Area Income & Poverty Estimates (SAIPE) for school districts, counties, and states.

<https://www.census.gov/data/datasets/2018/demo/saipe/2018-state-and-county.html>

Percent of the Total Population under 18 in Poverty, 2018

Data were obtained from the Model-based Small Area Income & Poverty Estimates (SAIPE) for school districts, counties, and states.

<https://www.census.gov/data/datasets/2018/demo/saipe/2018-state-and-county.html>

Percent of the Total Population under 18 in Poverty, 2018

Data were obtained from the Model-based Small Area Income & Poverty Estimates (SAIPE) for school districts, counties, and states.

<https://www.census.gov/data/datasets/2018/demo/saipe/2018-state-and-county.html>

Current Median Household Income, 2018

These data were obtained from the Model-based Small Area Income & Poverty Estimates (SAIPE) for school districts, counties, and states.

<https://www.census.gov/data/datasets/2018/demo/saipe/2018-state-and-county.html>

Not Covered by Health Insurance, 2018

Data were obtained from the 2014 to 2018 American Community Survey five-year estimates (Table S2701). Estimates are of the percentage of persons in the county who were not covered by any type of health insurance.

<https://data.census.gov>

Private Health Insurance Coverage Alone, 2018

Data were obtained from the 2014 to 2018 American Community Survey five-year estimates (Table S2701). Estimates are of the percentage of persons in the county who were solely covered by some form of private health insurance.

<https://data.census.gov>

Public Health Insurance Coverage Alone, 2018

Data were obtained from the 2014 to 2018 American Community Survey five-year estimates (Table S2701). Estimates are of the percentage of persons in the county who were solely covered by some form of public health insurance.

<https://data.census.gov>

Other Health Insurance Coverage, 2018

Data were obtained from the 2014 to 2018 American Community Survey five-year estimates (Table S2701). Estimates are of the percentage of persons in the county who were covered by some combination of private and public health insurance.

<https://data.census.gov>

Per Capita Transfer Payments (Total Govt Payments and Govt Medical Benefits)

These data were obtained from the Bureau of Economic Analysis Local Area Personal Income and Employment Table CA35. They show the values of total government-paid transfer payments and medical transfer payments paid by the government.

<https://www.bea.gov/data/by-place-county-metro-local>

Median Household Income and Per Capita Personal Income

These data were obtained from the Small Area Income and Poverty Estimates and the Bureau of Economic Analysis Personal Income and Employment Table CA1-3. They show the levels of median household income (defined above) and per capita personal income (total personal income divided by the county's population) for the county.

<https://www.census.gov/data/datasets/2018/demo/saipe/2018-state-and-county.html>

<https://www.bea.gov/data/by-place-county-metro-local>

- Sector 29-1030—Dietitians and Nutritionists
- Sector 29-1120—Therapists
- Sector 29-1190—Miscellaneous Health Diagnosing and Treating Practitioners
- Sector 29-9090—Miscellaneous Health Practitioners and Technical Workers
- Sector 31-2010—Occupational Therapy Assistants and Aides
- Sector 31-2020—Physical Therapy Assistants and Aides

<http://economicmodeling.com>

Health Occupations per 100,000 Population, 2019

These estimates were obtained from EMSI. In an effort to ease comparisons of the numbers of occupations for a particular health-related sector in a county or region, the numbers of occupations existing within a county were indexed to a 100,000 population rate. Aggregated sectors are composed of the following:

Physicians/Surgeons (all types)

Sector 29-1060—Physicians and Surgeons

Registered Nurses/Specialized Nurses/Physician Assistants

Sector 29-1070—Physician Assistants

Sector 29-1140—Registered Nurses

Sector 29-1150—Nurse Anesthetists

Sector 29-1160—Nurse Midwives

Sector 29-1170—Nurse Practitioners

Licensed Practical and Vocational Nurses

Sector 29-2060—Licensed Practical and Licensed Vocational Nurses

Technologists/Technicians (all types)

Sector 29-2010—Clinical Laboratory Technologists and Technicians

Sector 29-2030—Diagnostic Related Technologists and Technicians

Sector 29-2040—Emergency Medical Technicians and Paramedics

Sector 29-2050—Health Practitioner Support Technologists and Technicians

Sector 29-2070—Medical Records and Health Information Technicians

Sector 29-2090—Miscellaneous Health Technologists and Technicians

Sector 29-9010—Occupational Health and Safety Specialists and Technicians

Nursing/Psychiatric/Home Health Aides

Sector 31-1010—Nursing, Psychiatric, and Home Health Aides

Other

Sector 29-1030—Dietitians and Nutritionists

Sector 29-1120—Therapists

Sector 29-1190—Miscellaneous Health Diagnosing and Treating Practitioners

Sector 29-9090—Miscellaneous Health Practitioners and Technical Workers

Sector 31-2010—Occupational Therapy Assistants and Aides

Sector 31-2020—Physical Therapy Assistants and Aides

Other Practitioners

Sector 29-1010—Chiropractors

Sector 29-1020—Dentists

Sector 29-1040—Optometrists

Sector 29-1050—Pharmacists

Sector 29-1080—Podiatrists

Top Health and Social Assistance Occupation Sectors, 2019

Estimates were obtained from the Economic Modeling Specialists, Inc., proprietary database. The largest SOC occupation sectors for 2019 were captured for the county. This database also supplied estimates for the average annual earnings per occupation.

<http://economicmodeling.com>

Percentage of Jobs in the Healthcare Sector, 2019

These estimates were obtained from the Economic Modeling Specialists, Inc., proprietary database. The map shows the percentage of total jobs within the county that are directly involved with healthcare. Sectors used as direct healthcare sectors are: Offices of physicians, dentists, and other health practitioners; Home health care services; Medical and diagnostic labs and outpatient and other ambulatory services; Nursing and residential care facilities; Private hospitals; and Public hospitals.

<http://economicmodeling.com>

Economic Impact of Healthcare Sector, 2019 (1st table)

These estimates were calculated using input-output methodologies by the IMPLAN software from labor and earnings data provided by the Economic Modeling Specialists, Inc. proprietary database. They show the total output (all sales), labor income and employment estimates and multipliers for the direct and total economic impact of six economic sectors (Offices of physicians, dentists, and other health practitioners; Home health care services; Medical and diagnostic labs and outpatient and other ambulatory services; Nursing and residential care facilities; Private hospitals; and Public hospitals that used the spending patterns of private hospitals as a proxy).

<http://www.implan.com>

<http://economicmodeling.com>

Economic Impact of Healthcare Sector, 2019 (2nd table)

These are estimates of the total number of jobs and labor income resulting from the presence of the healthcare sector in the county. They were estimated using the IMPLAN software and are a result of the information gleaned from the Economic Impact of Healthcare Sector (1st table) above.

<http://www.implan.com>

<http://economicmodeling.com>

Top Health Employment Sectors, 2019

These estimates were obtained from the Economic Modeling Specialists, Inc., proprietary database. The largest employment NAICS code sectors for 2018 were captured for the county. This database also supplied estimates for the annual earnings per job.

<http://economicmodeling.com>

Top Health Occupation Sectors, 2019

These estimates were obtained from the Economic Modeling Specialists, Inc., proprietary database. The largest employment SOC (occupation) code sectors for 2019 were captured for the county. This database also supplied estimates for the average hourly earnings per job.

<http://economicmodeling.com>

Publication (POD-04-20)

By **Alan Barefield**, Extension Professor, Department of Agricultural Economics, **Emily V. Durr**, Student Assistant, Department of Agricultural Economics, **Thaddeus A. Webb**, Student Assistant, Department of Agricultural Economics, and **Samantha K. Seamon**, Student Assistant, Department of Agricultural Economics.

Copyright 2020 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, genetic information, status as a U.S. veteran, or any other status protected by applicable law is prohibited. Questions about equal opportunity programs or compliance should be directed to the Office of Compliance and Integrity, 56 Morgan Avenue, P.O. Box 6044, Mississippi State, MS 39762, (662) 325-5839.

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. GARY B. JACKSON, Director