

County Health Economics Profile

MS Congressional District 4

extension.msstate.edu/economic-profiles



MISSISSIPPI STATE
UNIVERSITY™

EXTENSION

Prepared by

Alan Barefield, Ph.D.

Devon Mills, Ph.D.

Abigail G. Lucas

Maxwell Haushalter

Department of Agricultural Economics

Mississippi State University

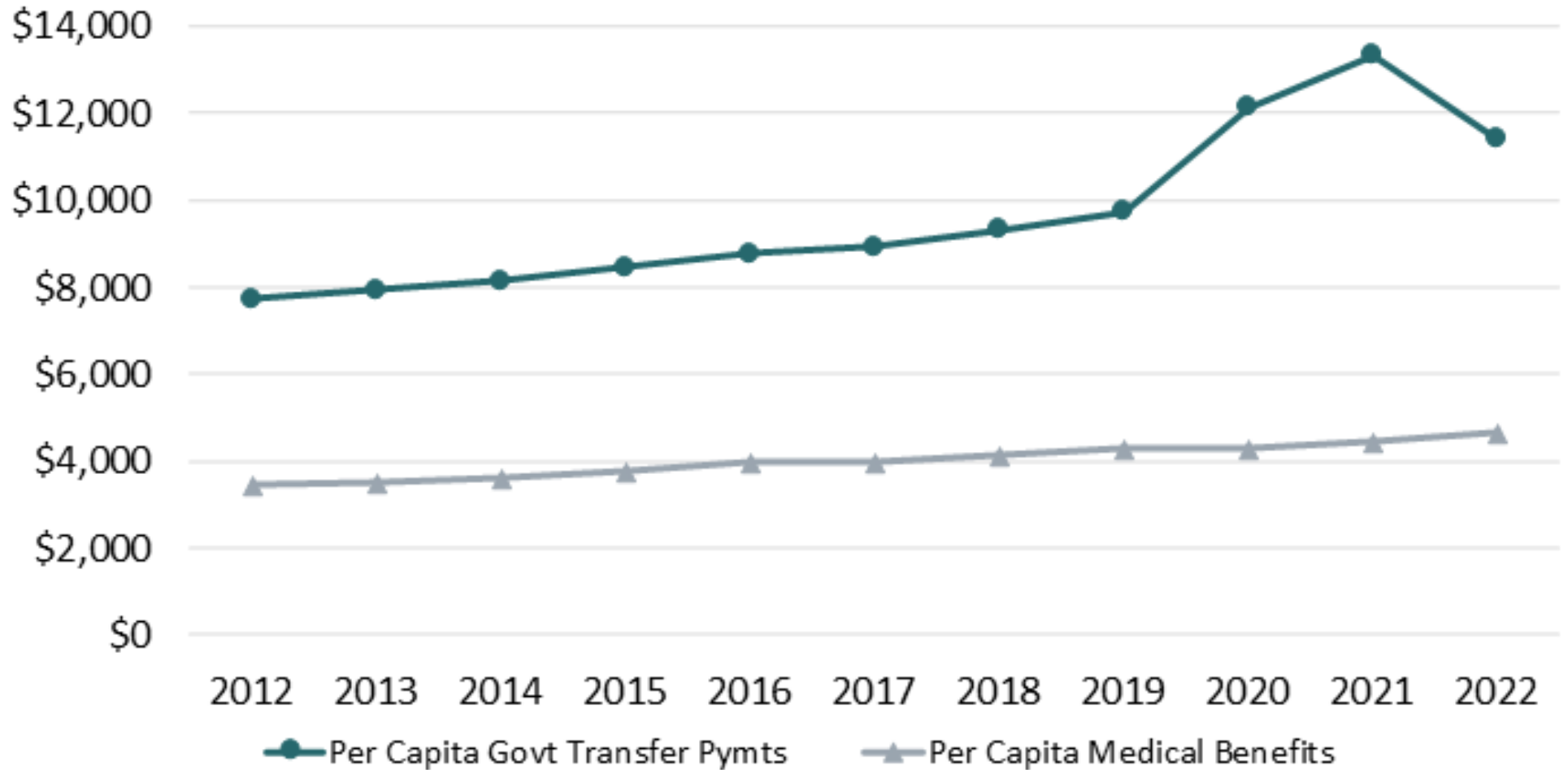
Demographics*	District	Mississippi	United States
Total Population, 2021 (EMSI Population Estimates)	748,689	2,967,023	329,725,481
Percent Change in Total Population, 2017 - 2021 (ACS Population Estimates)	0.3%	-0.5%	1.0%
Percent Non-white Population, 2021 (2017 - 2021 ACS 5-year estimates)	30.4%	43.1%	34.1%
Percent Population Over 64 years, 2021 (2017 - 2021 ACS 5-year estimates)	16.5%	16.4%	16.5%
Percent of Population in Poverty, 2021 (SAIPE)	18.7%	19.2%	12.6%
Percent of Total Population under 18 in Poverty, 2021 (SAIPE)	25.4%	26.4%	16.3%
Current Median Household Income, 2021 (SAIPE)	\$53,359	\$52,985	\$75,149
Not Covered by Health Insurance, 2021 (2017 - 2021 ACS 5-year estimates)	0.0%	11.8%	8.7%
Private Health Ins Cov Alone, 2021 (2017 - 2021 ACS 5-year estimates)	61.8%	88.2%	67.6%
Public Health Ins Cov Alone, 2021 (2017 - 2021 ACS 5-year estimates)	38.9%	39.2%	35.9%

*Data source acronyms are explained in the Data Key.

**Health Occupations per 100,000
Population (2022) — EMSI**

Sector	Occ/100k	State Rank
Physicians/Surgeons (all types)	269	N/A
Reg Nurses/Spec Nurses/Phys Assts	1,142	N/A
Lic Practical/Vocational Nurses	273	N/A
Technologists/Technicians (all types)	1,033	N/A
Nursing/Psy/Home Health Aides	1,099	N/A
Other Practitioners	188	N/A
All Other	246	N/A

Per Capita Govt Transfer Payments and Medical Benefits Transfer Payments Congressional District 4



**Economic Contribution of the Healthcare Sector
2022 — EMSI/IMPLAN**

Sector	Direct Impact	Multiplier	Total Impact
Output (Sales)	\$2,337,144,498	1.61	\$3,753,252,073
Labor Income	\$1,701,009,040	1.23	\$2,086,222,283
Employment	21,364	1.46	31,088

**Fiscal Revenue Contribution Estimates of the Healthcare Sector
2022 — EMSI/IMPLAN**

Revenue Source	State/Local Tax	Federal Tax
Employee Compensation	#N/A	#N/A
Proprietor Income	#N/A	#N/A
TOPI	#N/A	#N/A
Households	#N/A	#N/A
Corporations	#N/A	#N/A

**Economic Contribution of the Healthcare Sector
2022 — EMSI/IMPLAN**

Sector*	Sector Description	Jobs	Earnings	Value Added	Output
**	Hospitals	15,897	\$1,413,504,128	\$1,542,597,840	\$2,464,250,603
486	Outpatient Care Centers	1,099	\$85,864,688	\$77,369,772	\$141,073,299
483-5	Offices of providers	13,217	\$1,324,999,552	\$1,410,224,384	\$1,772,669,056
487	Medical/Diagnostic Labs	376	\$23,176,174	\$41,416,910	\$52,303,553
491	Nursing/Residential Care Facilities	4,396	\$230,946,480	\$242,429,113	\$341,754,085
488	Home Health Care Services	3,478	\$150,987,440	\$145,196,553	\$184,751,909

**Top Health Employment Sectors
2022 — EMSI**

NAICS Code	Sector	2019 Jobs	Annual Earn/Job
6211	Offices of Physicians	6,667	\$1,053,937
6213	Offices of Other Health Prac	3,415	\$595,864
6216	Home Health Care Services	3,299	\$397,614
6231	Nurs Care Fac (Skilled Nursing Fac)	2,632	\$561,246
**	Gen Med/Surgical Hospitals	2,407	\$423,011
6212	Offices of Dentists	2,087	\$714,642
6233	Cont Care Ret Comm/Asst Eld Liv	1,459	\$336,732
** 6219	Other Amb Health Care Svcs	1,099	\$501,705

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

**Top Health Occupation Sectors
2022— EMSI**

SOC Code	Sector	2019 Jobs	Avg Hrly Earnings
	Total Jobs	36,208	\$33.40
29-1140	Registered Nurses	7,241	\$34.39
31-1120	Home Hlth/Care Aides	5,191	\$13.36
31-9090	Misc Health Supp Occ	2,953	\$15.98
31-1130	Nur Assts/Ord/Psy Aides	2,605	\$14.77
29-2060	Lic Prac/Voc Nurses	2,045	\$23.03
29-1120	Therapists	1,910	\$38.14
29-1210	Physicians	1,864	\$138.49

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>

Lightcast — Proprietary data software company. <https://lightcast.io>

IMPLAN — Proprietary software company specializing in input-output analysis software. <https://implan.com>

TOPI — Taxes on Production and Imports

Total Population, 2022

Data were obtained from the Lightcast Population Estimates and the Bureau of Economic Analysis.

<https://lightcast.io>

Percent Change in Total Population, 2018 to 2022

Data were obtained from the Emsi Population Estimates and the U.S. Census Bureau Population Estimates.

<https://lightcast.io>, <https://data.census.gov>

Percent of the Population that is Non-white, 2022

Data were obtained from the 2018 to 2022 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, 2022

Data were obtained from the 2018 to 2022 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, 2022 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/2022/demo/saipe/2022-state-and-county.html>

Percent of the Total Population under 18 in Poverty, 2022

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/2022/demo/saipe/2022-state-and-county.html>

Current Median Household Income, 2022

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/2022/demo/saipe/2020-state-and-county.html>

Not Covered by Health Insurance, 2022

Data were obtained from the 2018 to 2022 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, 2022

Data were obtained from the 2018 to 2022 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, 2022

Data were obtained from the 2018 to 2022 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, 2022

Data were obtained from the 2018 to 2022 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>

Economic Contribution of the Healthcare Sector, 2023 (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).

<https://www.implan.com>

<https://lightcast.io>

Fiscal Revenue Estimates of the Healthcare Sector, 2023

Estimates of fiscal revenue (taxes) generated by the healthcare sector for both the state/local and federal economies classified by revenue source. These estimates were calculated using input-output methodologies by the IMPLAN software from labor and earnings data provided by the Lightcast proprietary database.

<https://www.implan.com>

<https://lightcast.io>

Health Occupations per 100,000 Population, 2023

These estimates were obtained from Lightcast. 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

Health Occupations per 100,000 Population, 2022

These estimates were obtained from Lightcast. 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:

Nursing/Psychiatric/Home Health Aides

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

Other Practitioners

- Sector 29-1010—Chiropractors
- Sector 29-1020—Dentists
- Sector 29-1040—Optometrists
- Sector 29-1050—Pharmacists
- Sector 29-1080—Podiatrists

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

<http://lightcast.io>

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 total and medical transfer payments.

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

Economic Impact of Healthcare Sector, 2023 (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.

<https://www.implan.com>

<https://lightcast.io>

Top Health and Social Assistance Occupation Sectors, 2023

Estimates were obtained from the Lightcast proprietary database. The largest Standard Occupational Code (SOC) occupation sectors for 2022 were captured for the county. This database also supplied estimates for the average annual earnings per occupation.

<https://lightcast.io>

Percentage of Jobs in the Healthcare Sector, 2023

These estimates were obtained from the Lightcast 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.

<https://lightcast.io>

Top Health Employment Sectors, 2023

These estimates were obtained from the Lightcast proprietary database. The largest employment NAICS code sectors for 2020 were captured for the county. This database also supplied estimates for the annual earnings per job.

<https://lightcast.io>

Top Health Occupation Sectors, 2023

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

<https://lightcast.io>

Publication 2978-87 (POD-06-24)

By **Alan Barefield**, Extension Professor, Department of Agricultural Economics, **Devon Mills**, Assistant Professor, Delta Research and Extension Center, **Abigail G. Lucas**, Student Assistant, Department of Agricultural Economics, and **Maxwell Haushalter**, Student Assistant, Department of Agricultural Economics.

Copyright 2024 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 L. CATCHOT JR., Director