

Population growth in this
area between
2010 and 2020:

36.5%

Population growth in all of
Lafayette County
between 2010 and 2020:

17.9%

U.S. Census Block Analysis

2010 vs. 2020 Decennial Census Comparison — Including Contiguous Blocks

Lafayette County, Mississippi

Coordinates: 34°24'30.3"N, 89°32'02.5"W

1. Geographic Identification

The coordinates 34°24'30.3"N 89°32'02.5"W (decimal: 34.408417°N, -89.534028°W) fall within Lafayette County, Mississippi (FIPS 28071). The 2020 census block at this location is Block 2007, Block Group 2, Census Tract 9504.03 (GEOID: 280719504032007), classified as rural with a land area of approximately 6,851,549 sq. meters (~1,693 acres).

Geographic Level	Identifier
State	Mississippi (FIPS: 28)
County	Lafayette County (FIPS: 071)
2020 Census Tract	9504.03 (GEOID prefix: 28071950403)
2020 Block Group	Block Group 2
2020 Target Block	Block 2007 (GEOID: 280719504032007)
2010 Equivalent Block	Block 1066, BG1, Tract 9504.01 (GEOID: 280719504011066)
Urban/Rural	Rural (UR Code: R)

2. Target Block: 2010 vs. 2020 Comparison

Block 2007 (2020) corresponds geographically to Block 1066 in Tract 9504.01 (2010), identified via the Census TIGER 2010 Web Services using the block's internal reference point. The block saw meaningful growth in both population and housing units across the decade.

Metric	2010	2020	Change
Block ID (Tract / BG / Block)	9504.01 / 1 / 1066	9504.03 / 2 / 2007	Renumbered
GEOID	280719504011066	280719504032007	—
Population	208	252	+44 (+21.2%)
Housing Units	82	107	+25 (+30.5%)
Persons per HU	2.54	2.36	-0.18 (-7.1%)

Both population and housing unit growth in the target block exceeded the county's average population growth rate (17.9%), with housing unit growth (30.5%) notably outpacing population growth — consistent with smaller average household sizes and new residential development.

3. Contiguous Census Blocks: 2010 vs. 2020

Using the Census TIGER/Line 2020 geometry for Block 2007, 15 contiguous blocks were identified by detecting shared boundary edges (blocks sharing 2 or more coordinate vertices). These blocks span four 2020 census tracts: 950402, 950403, and 950404. For 2010 comparison data, each block's

internal reference point was used to identify the corresponding 2010 block via the TIGER 2010 Web Services.

Note: Because census tract and block boundaries were redrawn between 2010 and 2020, contiguous 2020 blocks do not have directly matching 2010 block GEOIDs. The 2010 values below represent the block geographically underlying each 2020 block's centroid.

2020 Block (Tract/BG/Block)	2020 GEOID	2010 Equivalent (Tract/BG/Block)	Pop 2010	HU 2010	Pop 2020	HU 2020	Pop Change	HU Change
950402/BG1/B1011	2807195040211011	950402/BG1/B1023	115	67	142	83	+27 (+23.5%)	+16 (+23.9%)
950403/BG2/B2002	2807195040322002	950401/BG1/B1012	166	61	162	72	-4 (-2.4%)	+11 (+18.0%)
950403/BG2/B2008	2807195040322008	950401/BG1/B1068	100	37	90	39	-10 (-10.0%)	+2 (+5.4%)
950403/BG2/B2009	2807195040322009	950401/BG1/B1072	27	16	36	20	+9 (+33.3%)	+4 (+25.0%)
950403/BG2/B2010	2807195040322010	950401/BG1/B1089	0	0	0	0	—	—
950403/BG2/B2011	2807195040322011	950401/BG1/B1070	0	0	0	0	—	—
950403/BG2/B2012	2807195040322012	950401/BG1/B1073	44	19	52	20	+8 (+18.2%)	+1 (+5.3%)
950403/BG2/B2013	2807195040322013	950401/BG1/B1069	0	0	0	0	—	—
950403/BG2/B2014	2807195040322014	950401/BG1/B1075	0	1	6	1	N/A	+0 (+0.0%)
950403/BG2/B2015	2807195040322015	950401/BG1/B1083	83	28	129	90	+46 (+55.4%)	+62 (+221.4%)
950403/BG2/B2021	2807195040322021	950401/BG1/B1111	13	7	19	7	+6 (+46.2%)	+0 (+0.0%)
950403/BG3/B3011	2807195040333011	950401/BG1/B1063	1	1	2	1	+1 (+100.0%)	+0 (+0.0%)
950404/BG1/B1000	2807195040411000	950401/BG3/B3011	340	164	441	208	+101 (+29.7%)	+44 (+26.8%)
950404/BG3/B3000	2807195040433000	950401/BG3/B3000	72	36	233	115	+161 (+223.6%)	+79 (+219.4%)
950404/BG3/B3002	2807195040433002	950401/BG3/B3006	58	29	79	34	+21 (+36.2%)	+5 (+17.2%)
TOTALS — All 15 Contiguous Blocks			1019	466	1391	690	+372 (+36.5%)	+224 (+48.1%)

4. Growth Analysis — Immediate Surrounding Area

The 15 contiguous blocks collectively demonstrate growth substantially higher than the county average, driven primarily by three large blocks:

Block	2010 Pop	2020 Pop	Pop Change	HU Change	Notes
950404/BG1/B1000	340	441	+101 (+29.7%)	+44 (+26.8%)	Largest contiguous block

950404/BG3/B3000	72	233	+161 (+223.6%)	+79 (+219.4%)	Highest growth rate
950403/BG2/B2015	83	129	+46 (+55.4%)	+62 (+221.4%)	Large HU increase
950402/BG1/B1011	115	142	+27 (+23.5%)	+16 (+23.9%)	Cross-tract (950402)

Area	2010	2020	Change
Target Block 2007 population	208	252	+44 (+21.2%)
All 15 Contiguous Blocks population	1,019	1,391	+372 (+36.5%)
Target + Contiguous (16 blocks total) population	1,227	1,643	+416 (+33.9%)
Lafayette County population	47,351	55,813	+8,462 (+17.9%)
Mississippi statewide population	2,967,297	2,961,279	-6,018 (-0.2%)

The 16-block study area (target + 15 contiguous blocks) grew at 33.9% — nearly double the county's already-strong 17.9% rate, and dramatically above the state's essentially flat trajectory. Housing unit growth (48.1% for the contiguous 15) outpaces population growth, indicating new subdivision development and increasing vacancy rates or smaller household formation, consistent with ongoing suburban expansion west of Oxford along the Hwy 6 corridor.

5. Block Group 2 Reference: All Blocks (2020)

For reference, the complete block-level data for Block Group 2, Tract 9504.03 — the block group containing the target block — is provided below. Blocks marked as contiguous with Block 2007 are identified.

Block	Population (2020)	Housing Units (2020)	Persons/HU	GEOID	Contiguous?
2000	12	4	3.00	2807195040322000	
2001	0	0	—	2807195040322001	
2002	162	72	2.25	2807195040322002	Contiguous
2003	12	5	2.40	2807195040322003	
2004	29	10	2.90	2807195040322004	
2005	15	3	5.00	2807195040322005	
2006	43	23	1.87	2807195040322006	
2007	252	107	2.36	2807195040322007	TARGET
2008	90	39	2.31	2807195040322008	Contiguous
2009	36	20	1.80	2807195040322009	Contiguous
2010	0	0	—	2807195040322010	Contiguous
2011	0	0	—	2807195040322011	Contiguous
2012	52	20	2.60	2807195040322012	Contiguous

2013	0	0	—	2807195040322013	Contiguous
2014	6	1	6.00	2807195040322014	Contiguous
2015	129	90	1.43	2807195040322015	Contiguous
2016	13	2	6.50	2807195040322016	
2017	0	0	—	2807195040322017	
2018	207	117	1.77	2807195040322018	
2019	0	0	—	2807195040322019	
2020	55	23	2.39	2807195040322020	
2021	19	7	2.71	2807195040322021	Contiguous
2022	6	2	3.00	2807195040322022	
2023	14	3	4.67	2807195040322023	
2024	6	1	6.00	2807195040322024	
2025	0	0	—	2807195040322025	

6. County-Level Growth Context

Lafayette County as a whole grew substantially between the 2010 and 2020 censuses, providing macro context for the study area's even stronger growth:

Metric	2010	2020	Change
Total Population	47,351	55,813	+8,462 (+17.9%)
Total Housing Units	22,729	28,208	+5,479 (+24.1%)
Avg. Persons per HU	2.08	1.98	-0.10 (-4.9%)

Lafayette County's 17.9% population growth dramatically outpaced Mississippi's statewide near-flat trajectory (-0.2%, 2010–2020) and the national average of approximately 7.4%, driven primarily by the University of Mississippi and associated growth in Oxford and its surrounding suburban areas.

7. Methodology — Contiguous Block Identification

Contiguous blocks were identified using the following process:

1. The complete polygon geometry of Block 2007 was retrieved from the Census TIGER/Line 2020 web services (MapServer Layer 10) using the block's GEOID.
2. All census blocks within a bounding box surrounding Block 2007 (with a 0.01-degree buffer) were queried from the same TIGER 2020 service.
3. Coordinate vertices from each candidate block's polygon were compared against Block 2007's vertices. Blocks sharing 2 or more rounded coordinate vertices were classified as contiguous (sharing a boundary edge). Blocks sharing only 1 vertex (point contact only) were excluded.
4. For 2010 comparison data, each contiguous 2020 block's internal reference point (INTPTLAT/INTPTLON from TIGER attributes) was used to query the Census TIGER/Line 2010 web

services (MapServer Layer 18) to identify the 2010 block geographically corresponding to each 2020 block.

This approach accounts for the fact that census block boundaries were substantially redrawn between 2010 and 2020 due to tract subdivision across the study area. No direct GEOID-to-GEOID crosswalk exists for blocks in newly created tracts.

8. Data Sources and API Endpoints

Census Geocoder API

[Block 2007 identification \(2020 vintage\)](#)

TIGER/Line 2020 Web Services — Block Geometry

[Block 2007 geometry \(GEOID query\)](#)

[All blocks in bounding box \(envelope query\)](#)

TIGER/Line 2010 Web Services — 2010 Block Crosswalk

[2010 TIGER Census Blocks layer \(point-in-polygon for crosswalk\)](#)

2020 Decennial Census (P.L. 94-171)

[2020 Block-Level Data — Tract 9504.03](#)

[2020 County Tract Summary](#)

2010 Decennial Census (Summary File 1)

[2010 Block-Level Data — Tract 9504.01](#)

[2010 Block-Level Data — Tract 9504.02](#)

[2010 County Tract Summary](#)

Census Data Portal

[data.census.gov — Lafayette County Profile](#)

[Census Reporter — Lafayette County, MS](#)

All population and housing unit data sourced directly from U.S. Census Bureau APIs and TIGER/Line geographic services. Variables: P1_001N / POP100 (2020) = total population; P001001 / POP100 (2010) = total population; H1_001N / HU100 (2020) = housing units; H001001 / HU100 (2010) = housing units.