State of Missouri COVID-19 Response Vaccine Distribution Analysis
August 25, 2021
This document includes COVID-19 data and analytics for the State of Missouri in support of their vaccine distribution process.

Follow the links below to view each section:

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- **COVID-19 Case Rate Hotspots** [4-5]
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- **Regional Vaccination Rates Over Time** [10]
- **7-Day Statewide Vaccine Uptake (All Ages)** [11-12]
- **Regional Deep-dive: Region B** [13-27]
- **Appendix** [28-31]
Executive Summary | Key Insights

**STATEWIDE METRICS**

- **2.4M** 18+ population remaining unvaccinated
- **53%** 18+ population % vaccinated

**COVID-19 CASE RATE HOTSPOTS**

- Regions A, E and F have experienced the **highest increase of COVID-19 case rates for the past 2 weeks**
- Case rate hotspots persist in the core of Kansas City (15 within I-435) and St Louis (2 inside I-270), slightly fewer than last week

**VACCINE UPTAKE TRENDS**

- Regional highs in vaccine initiations in Springfield and St. Louis often occur in Census Tracts (CTs) already with >70% vaccine uptake (1st dose)
- Vaccine initiations have **slightly decreased** in both the 18+ population and 12-17 population over the past 2 weeks
- Suburban/exurban regions surrounding St. Louis, Columbia/Jefferson City, and Joplin led the State in 1st dose vaccinations
- Region C has vaccinated the **lowest proportion** of its population for the **fourth straight week**

**REGION B DEEP DIVE**

- An estimated **57%** of Region B's 18+ population remains **unvaccinated** and this past week, **0.8%** of the 18+ population initiated vaccination (on average in comparison to other regions)
- Case rates in Region B match what was seen in Southwest Missouri early this summer – case hotspots are mainly in the Milan area of Sullivan County
- 10 Census Tracts in Region B were identified for targeted outreach based on vaccination rates, case burden, and vulnerability

**Note:** Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated), and are from 8/19/2021. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 8/6/21 to 8/20/21.

For internal use only by State of Missouri. Output based on available data.
For the time period between 8/13/21 and 8/19/21, the change in COVID-19 case rate (per 100,000) is displayed on the left and case rate hotspots (areas with statistically significant changes in case rates in comparison to surrounding areas) are displayed on the right.

**14-Day Case Rate Change**

**14-Day Case Rate Hotspots**

**Regions A, E and F** have experienced the **highest increase of COVID-19 case rates for the past 2 weeks**

Case rate **hotspots persisted** in several of the outdoor recreation gateways into the **Lake of the Ozarks and Mark Twain National Forest regions**

**Case rate hotspots persisted** in **Kansas City** (15 within I-435) and **St Louis** (2 inside I-270), slightly fewer than last week.

**Note:** Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 8/20/21. Previous 2-week change view provided in the Appendix, along with methodology, data sources, and limitations.
14-Day COVID-19 Case Rate Hotspots | Kansas City and St. Louis

For the time period between 08/13/21 and 8/19/21, case rate hotspots (areas with statistically significant changes in case rates in comparison to surrounding areas) are displayed on the left for Kansas City and on the right for St. Louis.

Case rate hotspots persisted in the core of **Kansas City** (15 within I-435) and **St Louis** (2 inside I-270), slightly fewer than last week.

In Kansas City, **8 of the 15** hotspots are within the **vulnerable section** of the SE 1-435 corridor (according to the COVID-19 Vulnerability Index).

**Note:** Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 8/20/21. Previous 2-week change view provided in the Appendix, along with methodology, data sources, and limitations.

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Darker shades on the map on the left indicate Census Tracts with larger vaccination gaps, with regional drill downs for Kansas City and St. Louis provided on the right.

Areas with the largest vaccination gaps continue to align with the more populated areas across Missouri.

Note: Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated) and are from 8/19/2021. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.
Darker shades on the map on the left indicate Census Tracts with higher percentages of vaccinated residents with regional drill downs for Kansas City and St. Louis labeled to the right.

**Census Tracts with the highest percentages of unvaccinated populations** are concentrated in more **rural areas** in Regions B, D, I, G, & E.

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### Vaccinated Categories (%)

- 0.0% - 29.9%
- 30.0% - 39.9%
- 40.0% - 49.9%
- 50.0% - 69.9%
- 70.0%+ (Highest)

---

**Note:** Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated) and are from 8/19/2021. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

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Darker shades on the map on the left indicate counties with larger vaccination gaps with regional drill downs for Kansas City and St. Louis labeled to the right.

**Vaccination Gap Quintiles (#)**

- 0 – 113
- 114 – 174
- 176 – 243
- 243 – 338
- 339 – 819

**Similar trends persist for the 12-17 population as with the 18+ population – rural areas tend to have larger % unvaccinated rates.**

For the 12-17 population, **Region C continues to have the largest vaccination gap (94,116)**.

**Note:** Data on vaccinated individuals are based on 1st round Moderna & Pfizer vaccinations and J&J vaccinations, based on the residence of the individual vaccinated, and as of 8/19/2021. All vaccinations tagged to the “<18” age group were assumed to be between ages 12-17. Analysis ran at the county level due to several Census Tracts still with limited uptake thus far. Null counties were filtered out. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.
Darker shades on the map on the left indicate counties with higher percentages of vaccinated residents with regional drill downs for Kansas City and St. Louis labeled to the right.

**Percent Vaccinated (%)**

**Vaccinated Categories (%)**

- 0.0% - 29.9%
- 30.0% - 39.9%
- 40.0% - 49.9%
- 50.0% - 69.9%
- 70.0%+ (Highest)

Similar trends persist for the 12-17 population as with the 18+ population – urban areas tend to have larger % vaccinated rates.

Region C has the highest percent vaccinated (45.9%), while Region G has the lowest percent vaccinated (14.3%).

**Note:** Data on vaccinated individuals are based on 1st round Moderna & Pfizer vaccinations and J&J vaccinations, based on the residence of the individual vaccinated, and as of 8/19/2021. All vaccinations tagged to the "<18" age group were assumed to be between ages 12-17. Analysis ran at the county level due to several Census Tracts still with limited uptake thus far. Null counties were filtered out. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.
The visualization and table below display weekly and cumulative vaccination rates at the regional level. Week 32 (8/8 – 8/14) is the most recent complete week.

### 5-Week Additional Percent of 18+ Population Vaccinated by Region

**Initiatives** in Week 32 decreased in both the 18+ and 12-17 population down ~12.5k and 1.7k respectively from Week 30.

There remains a stark divide in 12-17 percent vaccinated across Regions (range from 14.4% in G to 46.6% in C).

**Region C** has vaccinated the lowest proportion of its population for the 4th straight week.

**Note:** All weeks are calendar weeks, defined by SMW using MMWR week, where Week 32 is 8/8 – 8/14. Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated, and are from 8/19/2021. J&J vaccinations are coded as both dose 1 and dose 2. Methodology, data sources, and limitations are available in the Appendix.
7-Day Vaccination Hotspots

Vaccination uptake hotspots for 08/11 - 08/19 are displayed below in red. These vaccine uptake hotspots represent the communities that far exceeded the State average for the dates indicated.

Uptake hotspots clustered around **urban** and **regional county seat areas**, notably **St. Louis, Columbia, Jefferson City, Joplin, Rolla, Lebanon-Wayneville-Rolla-St Clair** and the outskirts of **Kansas City**

Uptake hotspots continue to be **linked to major transportation routes** (I-44, I-70, I-35, I-55 and US 63)

**Note:** Data on vaccinated individuals is based on 1st round Moderna & Pfizer vaccinations and J&J vaccinations, includes all ages, and indicates the residence of the individual vaccinated, and is as of 8/19/2021. Methodology, data sources, and limitations are available in the Appendix.
7-Day Vaccine Uptake Deserts

Vaccination uptake deserts are displayed in shades of blue from 08/11 - 08/19, indicating Census Tracts where the weekly vaccine uptake is significantly lower than State and/or regional averages – a more sensitive test of differences in community-level uptake in comparison to the hotspot analysis.

Majority of vaccine uptake deserts (by **area**) exist in Regions **B** and **H**; majority of vaccine uptake deserts (by **population**) are in **urban** clusters (Kansas City, Springfield and St. Louis).

Suburban/exurban regions surrounding St. Louis, Columbia/Jefferson City, and Joplin led the State in 1st dose vaccinations.

Regional highs in vaccine initiations in Springfield and St. Louis are often occurring in CTs with >70% vaccine uptake (1st dose).

**How to interpret these maps:**
- **High Vaccine Uptake**: Statistically significant clusters of high statewide initiation rates.
- **High Regional Uptake**: Statistical outlier - high initiation rates surrounded by low.
- **Low Regional Uptake**: Statistical outlier - low initiation rates surrounded by high.
- **Low Vaccine Uptake/Uptake Desert**: Clusters of statistically low statewide initiation rates.
Region B Deep-Dive

As presented on 8/17
Executive Summary

**REGIONAL & COUNTY TRENDS**

- Vaccine deserts persist **across Region B** as other regions increased vaccination rates.
- Thirty-three of 61 (54%) Census Tracts in Region B have **under 40% of population vaccinated**.
- Case rates across the state, including Region B, match what was seen in Southwest Missouri early this summer.
- **Case rate hotspots** in Region B **limited to Milan** and surrounding communities.

**TARGET CENSUS TRACTS**

- 10 Census Tracts in Region B were identified as potential priority areas based on vaccination rates, case burden, and vulnerability - with deep dives provided for the top 3.
- Within these top 3 Census Tracts, residents tend to have **lower levels of income and educational attainment and more children** than the average Missourian.

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**Note:** Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated), and are from 08/10/2021. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 7/30/21 to 07/13/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.
State of the Region

COVID-19 Case Burden and Vaccine Uptake Trends
COVID-19 Case Rate Spread Over Time

These visuals display the evolution of COVID-19 case rates over the past 4 full weeks (July 16th - Aug 13th) in Region B.

- High rates this summer, initially clustered in southwest Missouri, were by early August (Week 32) distributed across the state.
- Early surges in Knox and Ralls counties (top left) were compounded by high rates along Rte. 61 (top right).
- Spikes followed in Sullivan County and communities neighboring Indian Creek and South Fork Recreation Areas (bottom right).

Note: Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 08/13/21. See Appendix for methodology, data sources, and limitations. "Week" corresponds with MMWR.
The visual on the left depicts case rate hotspots – areas with statistically significant changes in case rates in comparison to surrounding areas – for two weeks between July 30th and August 13th.

14-Day Case Rate Hotspots (7/30-8/13)

KEY OBSERVATIONS

• For the two-week period through August 13th, case rate hotspots in Region B were limited to Milan and surrounding communities.

• Results mirror high case rates experienced in Milan and Sullivan County.

• Other regional hubs (Kirkville, Hannibal) have been free of hotspots since mid-July.

Note: Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 08/13/21. See Appendix for methodology, data sources, and limitations.
The visual and table below depict percent vaccinated and vaccination gap across Region B

**Region B Vaccinated (%)**

<table>
<thead>
<tr>
<th>% Vaccinated Rank (In Reverse Order)</th>
<th>Census Tract</th>
<th>County</th>
<th>Adult Population</th>
<th>% Vaccinated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Statewide Average</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>29045950100</td>
<td>Clark County</td>
<td>1,499</td>
<td>21.95%</td>
</tr>
<tr>
<td>2</td>
<td>29045950200</td>
<td>Clark County</td>
<td>1,197</td>
<td>23.64%</td>
</tr>
<tr>
<td>3</td>
<td>29199480100</td>
<td>Scotland County</td>
<td>1,989</td>
<td>24.08%</td>
</tr>
<tr>
<td>4</td>
<td>29171960100</td>
<td>Putnam County</td>
<td>2,450</td>
<td>28.04%</td>
</tr>
<tr>
<td>5</td>
<td>29121960300</td>
<td>Macon County</td>
<td>3,656</td>
<td>29.68%</td>
</tr>
<tr>
<td>6</td>
<td>29121960200</td>
<td>Macon County</td>
<td>2,213</td>
<td>31.72%</td>
</tr>
<tr>
<td>7</td>
<td>29175490200</td>
<td>Randolph County</td>
<td>2,909</td>
<td>32.11%</td>
</tr>
<tr>
<td>8</td>
<td>29111970400</td>
<td>Lewis County</td>
<td>1,525</td>
<td>33.11%</td>
</tr>
<tr>
<td>9</td>
<td>29115490100</td>
<td>Linn County</td>
<td>1,577</td>
<td>33.93%</td>
</tr>
<tr>
<td>10</td>
<td>29121960500</td>
<td>Macon County</td>
<td>2,348</td>
<td>33.94%</td>
</tr>
</tbody>
</table>

Note: Data on vaccinated individuals are based on 1st round Moderna & Pfizer vaccinations and J&J vaccinations, based on the residence of the individual vaccinated, and as of 08/10/2021. Methodology, data sources, and limitations are available in the Appendix.

The two Census Tracts with the **lowest percent vaccinated in Region B are in Clark County**

33 of 61 (54%) **Census Tracts** in Region B have under 40% of their population vaccinated.

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Vaccination deserts are shown in blue over a four-week period, identifying Census Tracts where vaccination uptake for that time period is significantly lower than State average.

**Region B Share of State Initiations Over the Last 6 Months**

<table>
<thead>
<tr>
<th>Month</th>
<th>Share of State Initiations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mar 2021</td>
<td>1.1%</td>
</tr>
<tr>
<td>Aug 2021</td>
<td>3.2%</td>
</tr>
</tbody>
</table>

**Four-Week Uptake Deserts**

*July 13th - August 10th*

- **How to interpret these maps:**
  - **High Vaccine Uptake:** Statistically significant clusters of high initiation rates in comparison to State average.
  - **High Regional Uptake:** Statistically significant high initiation rates surrounded by low.
  - **Low Regional Uptake:** Statistically significant low initiation rates surrounded by high.
  - **Low Vaccine Uptake/Uptake Desert:** Clusters of statistically low initiation rates in comparison to State average.

Vaccine deserts have **persisted across Region B** as other regions increased vaccination rates.

Region B **vaccinated <1%** of its eligible population through summer.

Third-lowest (of 9 regions) cumulative vaccination rate for both adults and teens (12-17)

**Note:** Vaccine uptake desert analyses employ Local Moran’s I test for spatial autocorrelation. Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the individual vaccinated (all ages), and are from 08/10/2021. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.
Target Census Tracts

Potential Areas to Focus Outreach Initiatives
Potential Target Census Tracts in Region B

The map below highlights Census Tracts that could be targeted for outreach within Region B

To identify **target tracts** in Region B, we analyzed relationships between:

1. 14-Day COVID-19 case rate burden/change
2. Percent of population unvaccinated
3. Ranking based on the COVID-19 Vulnerability Index (CVI)*

Using the above methodology, below are the **top 10 Census Tracts**, of which the **top 3** are discussed further in the following slides:

<table>
<thead>
<tr>
<th>Rank</th>
<th>Census Tract</th>
<th>County</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>29045950200</td>
<td>Clark</td>
</tr>
<tr>
<td>2</td>
<td>29175490200</td>
<td>Randolph</td>
</tr>
<tr>
<td>3</td>
<td>29127960800</td>
<td>Marion</td>
</tr>
<tr>
<td>4</td>
<td>29121960200</td>
<td>Macon</td>
</tr>
<tr>
<td>5</td>
<td>29001950200</td>
<td>Adair</td>
</tr>
<tr>
<td>6</td>
<td>29127960500</td>
<td>Marion</td>
</tr>
<tr>
<td>7</td>
<td>29045950100</td>
<td>Clark</td>
</tr>
<tr>
<td>8</td>
<td>29115490100</td>
<td>Linn</td>
</tr>
<tr>
<td>9</td>
<td>29211480100</td>
<td>Sullivan</td>
</tr>
<tr>
<td>10</td>
<td>29197470100</td>
<td>Schuyler</td>
</tr>
</tbody>
</table>

**Note:** Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated). Prioritization carried out on vaccine data as of 08/03/21 and COVID-19 data (change analysis of rates – cases per 100k) from 7/30/21 to 8/13/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

*CVI includes percent below 138% FPL, 1+ comorbidity, minority, cumulative case rate, and percent unvaccinated

All 10 Census Tracts have a population that is at least 60% unvaccinated.
Census Tract -950200

CLARK COUNTY

Rural (non-core)  Medium metro (Large central metro)  Urban

COVID-19 METRICS

77% 16%

% Unvaccinated 14-Day % Increase in Case Rate

914 4,033 per 100k

# Unvaccinated Cumulative COVID-19 Case Burden

VALUES & PREFERENCES

80% seek out primary care providers compared to 80% statewide

16% use community and/or retail health clinics compared to 13% statewide

77% identify as religious – majority Christian

Likely to prefer text messages for outreach

This tract at a glance:

Age

18-34 34%

35-54 38%

55+ 47%

CT  State

VALUES & PREFERENCES

80% seek out primary care providers compared to 80% statewide

16% use community and/or retail health clinics compared to 13% statewide

77% identify as religious – majority Christian

Likely to prefer text messages for outreach

Age

18-34 19%

35-54 34%

55+ 47%

CT  State

VALUES & PREFERENCES

80% seek out primary care providers compared to 80% statewide

16% use community and/or retail health clinics compared to 13% statewide

77% identify as religious – majority Christian

Likely to prefer text messages for outreach

Access Factors

Income below $30k

CT 47%

State 25%

Lacking broadband

CT 31%

State 15%

Labor force

58% participate, compared to 63% statewide

Unemployment

CT 5%

State 5%

Uninsured

CT 12%

State 14%

Net worth < $0

CT 34%

State 27%

Note: Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated) and are from 08/10/2021. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 7/30/21 to 08/13/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

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Target Census Tract -950200 | Key Characteristics
Target Census Tract -950200 | Vulnerable Population and Points of Interest

Census Tract View: Vulnerable Population and Points of Interest (POIs)

### EXAMPLE PARTNERS
Sites for Outreach & Vaccination Events

<table>
<thead>
<tr>
<th>Label</th>
<th>Name</th>
<th>Type</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alexandria Baptist Church Worship</td>
<td>Worship</td>
<td>106 E Market</td>
</tr>
<tr>
<td>2</td>
<td>Denny’s Business</td>
<td>Business</td>
<td>102 Fore Drive</td>
</tr>
<tr>
<td>3</td>
<td>Reed’s Bar &amp; Grill Restaurant</td>
<td>Restaurant</td>
<td>104 Des Moines St</td>
</tr>
<tr>
<td>4</td>
<td>First Baptist Church of Wayland</td>
<td>Worship</td>
<td>29367 Des Moines St</td>
</tr>
<tr>
<td>5</td>
<td>URSA Farmers Co-op</td>
<td>Business</td>
<td>25545 US Hwy 136 Spur</td>
</tr>
</tbody>
</table>

**Vulnerable Population**

- <30k income and/or
- 1+ comorbidities and/or racial/ethnic minority

**POI Legend**

- # Highlighted POI in Table
- Additional POI for Consideration*

*Detailed list provided in accompanying Excel

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Target Census Tract –490200 | Key Characteristics

Census Tract -490200
RANDOLPH COUNTY

Rural
(non-core)
Medium
(Large central metro)
Urban
(Non-core)

COVID-19 METRICS

68%
% Unvaccinated

14-Day % Increase in Case Rate

6%

1,975
# Unvaccinated

7,745 per 100k
Cumulative COVID-19 Case Burden

VALUES & PREFERENCES

79% seek out primary care providers compared to 80% statewide

17% use community and/or retail health clinics compared to 13% statewide

78% identify as religious – majority Christian

Likely to prefer text messages for outreach

ACCESS FACTORS

Income below $30k

CT 26% State 25%

Lacking broadband

CT 18% State 15%

Labor force

59% participate, compared to 63% statewide

Net worth ≤$0

CT 29% State 27%

Uninsured

CT 16% State 14%

Unemployment

CT 6% State 5%

Note: Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated) and are from 08/10/21. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 7/30/21 to 08/13/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

For internal use only by State of Missouri. Output based on available data.
Census Tract View: Vulnerable Population and Points of Interest (POIs)

**Vulnerable Population**
- <$30k income and/or
- 1+ comorbidities and/or
- racial/ethnic minority

**POI Legend**
- Highlighted POI in Table
- Additional POI for Consideration*

**EXAMPLE PARTNERS**
Sites for Outreach & Vaccination Events

<table>
<thead>
<tr>
<th>Label</th>
<th>Name</th>
<th>Type</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Westran High</td>
<td>School</td>
<td>601 Hornet Lane</td>
</tr>
<tr>
<td>2</td>
<td>Westran Middle</td>
<td>School</td>
<td>622 Harlan St.</td>
</tr>
<tr>
<td>3</td>
<td>Huntsville Police Department</td>
<td>Police</td>
<td>205 S Main St</td>
</tr>
<tr>
<td>4</td>
<td>Church of God In Christ</td>
<td>Worship</td>
<td>227 Howard St</td>
</tr>
<tr>
<td>5</td>
<td>Huntsville Lions Club</td>
<td>Community</td>
<td>State Hwy C</td>
</tr>
</tbody>
</table>

*Detailed list provided in accompanying Excel*
Target Census Tract -960800 | Key Characteristics

This tract at a glance:

VALUES & PREFERENCES

71% seek out primary care providers compared to 80% statewide

26% use community and/or retail health clinics compared to 13% statewide

ACCESS FACTORS

INCOME BELOW $30K

64% 8%

% Unvaccinated 14-Day % Increase in Case Rate

8,603 1,000

Cumulative COVID-19 Case Burden

LACKING BROADBAND

% below $30k CT 77%

STATE 25%

CT 20%

STATE 15%

LABOR FORCE

58% participate, compared to 63% statewide

UNINSURED

% below $30k CT 24%

STATE 14%

NET WORTH ≤$0

UNEMPLOYMENT

1,423 10,306 per 100k

# Unvaccinated Cumulative COVID-19

Case Burden

Note: Data on vaccinations include 1st round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated) and are from 06/20/2021. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 7/30/21 to 08/13/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

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Census Tract View: Vulnerable Population and Points of Interest (POIs)

**Vulnerable Population**
- <$30k income and/or
- 1+ comorbidities and/or
- racial/ethnic minority
- Low to high density

**POI Legend**
- # Highlighted POI in Table
- *Detailed list provided in accompanying Excel

**EXAMPLE PARTNERS**
Sites for Outreach & Vaccination Events

<table>
<thead>
<tr>
<th>Label</th>
<th>Name</th>
<th>Type</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>First Christian Church</td>
<td>Worship</td>
<td>1101 Broadway</td>
</tr>
<tr>
<td>2</td>
<td>Eugene Field Elem.</td>
<td>School</td>
<td>1405 Pearl St.</td>
</tr>
<tr>
<td>3</td>
<td>Douglass Community Services</td>
<td>Community</td>
<td>711 Grand Ave</td>
</tr>
<tr>
<td>4</td>
<td>Missouri Career Center</td>
<td>Community</td>
<td>203 N 6th St</td>
</tr>
<tr>
<td>5</td>
<td>Java Jive</td>
<td>Restaurant</td>
<td>211 N Main St</td>
</tr>
</tbody>
</table>

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Appendix
14-Day COVID-19 Case Rate Hotspots at the Census Tract Level

For the time period between 08/06/21 and 8/12/21, the change in COVID-19 case rate (per 100,000) is displayed on the left and case rate hotspots (areas with statistically significant changes in case rates in comparison to surrounding areas) are displayed on the right.

14-Day Case Rate Change

14-Day Case Rate Hotspots

Statistical Hotspots further dissipated in Regions D and G as other regions caught up. Hotspots are beginning to form in St Louis (4 inside I-270) and expand in Kansas City (19 within I-435).

Case rate hotspots persisted in several of the outdoor recreation gateways into the Lake of the Ozarks and Mark Twain National Forest regions.

Note: Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 8/20/21. Previous 2-week change view provided in the Appendix, along with methodology, data sources, and limitations.

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