HealthPrism™

State of Missouri COVID-19 Response Vaccine Distribution Analysis

July 26, 2021
Executive Summary | Key Insights

**STATEWIDE REMAINING UNVACCINATED**

- **Vaccine initiations overall (ages 12+) increased ~11k, a ~33% increase** week over week (Week 27 to Week 28)
- For the **fourth straight week, Region D and G vaccinated** the **highest percentage** of their 18+ population
- **Vaccine uptake was elevated in southwest Missouri (Region D), central Missouri (Region F), and in the suburbs surrounding St. Louis and Kansas City**
- Uptake deserts in the northeast (Region B) and southeast (E) remain
- Some **persisting uptake deserts** within **vulnerable areas of St. Louis** experienced vaccine uptake gains

**COVID-19 CASE RATE HOTSPOTS**

- **Southwest Missouri** (Region D) still **maintains** the most COVID-19 case rate hotspots even though it now covers fewer Census Tracts
- The **Census Tracts between Regions F and I** experienced rising case rates and emerging clusters of case rate hotspots

**VACCINE UPTAKE TRENDS**

- **REGION D DEEP DIVE**
  - **Vaccination uptake has increased in region D as cases have spiked** – for the past 3 weeks, the region has vaccinated the largest additional percent of its population
  - 10 Census Tracts in Region D were identified for targeted outreach based on vaccination rates, case burden, and vulnerability

**REMARKS**

- **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 07/20/2021. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 7/9/21 to 07/23/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.
14-Day COVID-19 Case Rate Hotspots at the Census Tract Level

For the time period between 7/9/21 and 7/23/21, 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.

Southwest Missouri (Region D, in blue) still maintains the most COVID-19 case rate hotspots even though it now covers fewer Census Tracts. The Census Tracts between Regions F and I (in green) experienced rising case rates and emerging clusters of case rate hotspots.

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 07/23/21. Previous 2-week change view provided in the Appendix, along with methodology, data sources, and limitations.
18+ Year-olds | Remaining Unvaccinated

Darker shades on the map on the left indicate Census Tracts with larger vaccination gaps and on the right higher percentages of unvaccinated (for the 18+ population)

**VACCINATION GAP (#)**

<table>
<thead>
<tr>
<th>Quintiles (#)</th>
<th>0 – 1,040</th>
<th>1,041 – 1,508</th>
<th>1,509 – 2,031</th>
<th>2,035 – 2,685</th>
<th>2,690 – 6,924</th>
</tr>
</thead>
</table>

**PERCENT UNVACCINATED (%)**

<table>
<thead>
<tr>
<th>Quintiles (%)</th>
<th>0.0% - 41.1%</th>
<th>41.1% - 50.8%</th>
<th>50.8% - 57.1%</th>
<th>57.1% - 63.3%</th>
<th>63.3% - 91.5%</th>
</tr>
</thead>
</table>

Areas with the largest vaccination gaps continue to align with the more urban areas of highest population across Missouri. Census Tracts with the highest percentages of unvaccinated populations are concentrated in more rural areas in Regions B, D, I, G, & E.

**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 07/20/2021. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.
12-17 Year-olds | Remaining Unvaccinated

Darker shades on the map on the left indicate counties with larger vaccination gaps and on the right higher percentages of unvaccinated (for the 12-17 population).

**VACCINATION GAP (#)**

<table>
<thead>
<tr>
<th>Quintiles (#)</th>
<th>0 – 111</th>
<th>112 – 186</th>
<th>187 – 266</th>
<th>267 – 370</th>
<th>371 – 900</th>
</tr>
</thead>
</table>

**PERCENT UNVACCINATED (%)**

<table>
<thead>
<tr>
<th>Quintiles (%)</th>
<th>0.0% - 54.3%</th>
<th>54.3% - 70.8%</th>
<th>70.9% - 82.3%</th>
<th>82.4% - 90.2%</th>
<th>90.2% - 99.6%</th>
</tr>
</thead>
</table>

For the 12-17 population, **Region C** continues to have the largest **vaccination gap** (109,593), while **Region G** has the highest **percent unvaccinated** (93.5%).

**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 07/20/2021. 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.
Regional Vaccination Rates Over Time

This visualization and table below display weekly and cumulative vaccination rates for the 18+ population by region. The data covers the period from Week 24 to Week 28. Additional percentage of the 18+ population vaccinated by region is shown over time.

Additional Percent of 18+ Population Vaccinated by Region (Week 24 to Week 28)

Vaccination Summary

<table>
<thead>
<tr>
<th>Region</th>
<th>18+ Cumulative % Vax</th>
<th>18+ % Vax Previous Week</th>
<th>12-17 Cumulative % Vax</th>
<th>12-17 % Vax Previous Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>46.8%</td>
<td>0.6%</td>
<td>29.0%</td>
<td>1.8%</td>
</tr>
<tr>
<td>B</td>
<td>38.2%</td>
<td>0.5%</td>
<td>8.8%</td>
<td>0.9%</td>
</tr>
<tr>
<td>C</td>
<td>53.3%</td>
<td>0.6%</td>
<td>36.4%</td>
<td>1.8%</td>
</tr>
<tr>
<td>D</td>
<td>43.4%</td>
<td>1.2%</td>
<td>18.8%</td>
<td>2.1%</td>
</tr>
<tr>
<td>E</td>
<td>39.6%</td>
<td>0.6%</td>
<td>7.9%</td>
<td>0.7%</td>
</tr>
<tr>
<td>F</td>
<td>53.0%</td>
<td>0.8%</td>
<td>23.8%</td>
<td>1.7%</td>
</tr>
<tr>
<td>G</td>
<td>34.9%</td>
<td>1.4%</td>
<td>6.3%</td>
<td>1.4%</td>
</tr>
<tr>
<td>H</td>
<td>45.6%</td>
<td>0.7%</td>
<td>14.3%</td>
<td>1.3%</td>
</tr>
<tr>
<td>I</td>
<td>34.2%</td>
<td>1.0%</td>
<td>11.5%</td>
<td>0.9%</td>
</tr>
</tbody>
</table>

Vaccine initiations overall (ages 12+) increased ~11k, a ~33% increase week over week. In both the 18+ and 12-17 population, each Region saw an increase in vaccine initiations from the previous week. For the fourth straight week, Regions D and G vaccinated the highest percentage of the 18+ population.

Note: All weeks are calendar weeks, defined by SMV using MMWR week, where Week 28 is 7/12 – 7/18. 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 07/20/2021. 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 7/14-7/20 are displayed below in red. These vaccine uptake hotspots represent the communities that far exceeded the State average for the dates indicated.

Vaccine uptake activity continued for a third straight week within southwest Missouri (Region D), and extended towards Region F (Jefferson City).

Uptake was also high in selected Census Tracts containing small regional urban centers in Regions I and G.

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 07/20/2021. Methodology, data sources, and limitations are available in the Appendix.
Vaccination uptake deserts are displayed in blue from 7/14-7/20, indicating Census Tracts where vaccination uptake is significantly lower than State averages.

**How to interpret these maps:**

- **High Vaccine Uptake**
  - Statistically significant clusters of high 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 initiation rates

Vaccine uptake was elevated in southwest Missouri (Region D), central Missouri (Region F), and in the suburbs surrounding St. Louis and Kansas City. Uptake deserts in the northeast (Region B) and southeast (E) persist. Some endemic uptake deserts within vulnerable areas of St. Louis experienced vaccine uptake gains.

**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 07/20/2021. Methodology, data sources, and limitations are available in the Appendix.
Region D Deep-Dive

As presented on 7/21
Region D | Key Insights

REGIONAL & COUNTY TRENDS

- An estimated ~58% of Region D's over 18 population remains **unvaccinated**
- COVID-19 case rates began to spike **mid-June in and around Springfield, Joplin and Branson** and have spread to a broader area across the region over the past 4 weeks
- **Vaccination uptake** has increased as cases have spiked – for the past 3 weeks, Region D has vaccinated the largest **additional percent of its population**
  - Recent vaccine initiation has been largely focused on the Springfield and Joplin urban and suburban areas

TARGET CENSUS TRACTS

- 10 Census Tracts were identified 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 educational attainment** and are more **likely to be uninsured** than the average Missourian
- Targeted outreach strategies include partnering with local **faith leaders, elected officials, family physicians**, and **community leaders**; meeting residents where they are by offering mobile vaccinations at **places of work** and **frequented community spots**; and using **motivated reasoning** to speak to residents based on their values

*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 07/14/2021. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 7/2/21 to 07/16/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.
Region D COVID-19 Case Rate Spread Over Time

These visuals display the evolution of COVID-19 case rates over the past 4 weeks (June 18th-July 16th) in Region D.

- Case rates jumped between June 18 and July 16 across Region D.
- Early spikes appear in the southeastern and central areas of the region – around Springfield.
- Recent wave covers the Region’s southeast corner.
- Region D: 15% of statewide reported cases through June; 36% in early 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 07/16/21. See Appendix for methodology, data sources, and limitations. “Week” corresponds with MMWR.
Region D COVID-19 Case Rate Hotspots at the Census Tract Level

The visuals below depict case rate hotspots (areas with statistically significant changes in case rates in comparison to surrounding areas) for two weeks between July 2\textsuperscript{nd} and July 16\textsuperscript{th}.

\textbf{14-Day Case Rate Hotspots (7/2-7/16)}

Case rates began to spike mid-June \textbf{in and around Springfield, Joplin and Branson}. Recent hotspots continue to appear \textbf{in and around Springfield and Joplin} following existing presence of high rates.

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 07/16/21. See Appendix for methodology, data sources, and limitations. Copyright © 2021 Deloitte Development LLC. All rights reserved. Deloitte Consulting LLP Trade Secret and Confidential. For internal use only by State of Missouri. Output based on available data.
Vaccination deserts are shown in blue for one- and four-week periods, identifying Census Tracts where vaccination uptake is significantly lower than State averages.

Region D Share of State Initiations Over Time

Four-Week Uptake Deserts June 18th - July 16th

How to interpret these maps:
- **High Vaccine Uptake**: Statistically significant clusters of high 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 initiation rates.

Vaccine deserts receded geographically in northern Region D as much of state increased uptake. Handful of communities (e.g. Ash Grove, Stark City) exhibit persistently low rates and buck surrounding trends.

Region D's share of weekly vaccine initiations has increased steadily in the last 8 weeks, rising from 10% (Week 20) to 25% (Week 27).

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 07/14/2021. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

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Target Census Tracts

Potential Areas to Focus Outreach Initiatives
To identify target tracts in Region D, 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>Order</th>
<th>County</th>
<th>Census Tract</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Greene</td>
<td>29077001900</td>
</tr>
<tr>
<td>2</td>
<td>Greene</td>
<td>29077003300</td>
</tr>
<tr>
<td>3</td>
<td>Stone</td>
<td>29209090602</td>
</tr>
<tr>
<td>4</td>
<td>Greene</td>
<td>29077000501</td>
</tr>
<tr>
<td>5</td>
<td>Stone</td>
<td>29209090400</td>
</tr>
<tr>
<td>6</td>
<td>Greene</td>
<td>29077003600</td>
</tr>
<tr>
<td>7</td>
<td>Newton</td>
<td>29145020300</td>
</tr>
<tr>
<td>8</td>
<td>Taney</td>
<td>29213480402</td>
</tr>
<tr>
<td>9</td>
<td>Webster</td>
<td>29225470101</td>
</tr>
<tr>
<td>10</td>
<td>Lawrence</td>
<td>29109470100</td>
</tr>
</tbody>
</table>

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

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 07/14/2021. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 7/2/21 to 07/16/21. 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.
Target Census Tract -001900 | Key Characteristics

**This tract at a glance:**

- **95%** White
- **63%** Under 55
- **50%** High-school educated or below
- **36%** At high-risk for at least 1 health condition
- **67%** Households with children

**VALUES & PREFERENCES**

- **70%** seek out primary care providers (PCP) for health care
- **27%** utilize community and/or retail health clinics
- **75%** identify as religious – majority Christian
- **Likely to prefer text messages for outreach**

**COVID-19 METRICS**

- **66%** Unvaccinated
- **18%** 14-Day % Increase in Case Rate
- **1,639** # Unvaccinated
- **6,266 per 100k** Cumulative COVID-19 Case Burden

**ACCESS FACTORS**

- **Income**: **65%** have an income below $30k
- **Net Worth**: **63%** have $0 or less net worth
- **Broadband**: **27%** likely do not have broadband access
- **Health Insurance**: **18%** are likely uninsured

**Employment**

The tract’s top occupations are:

1. Office and Administrative
2. Sales
3. Business and Financial

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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 07/14/2021. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 7/2/21 to 07/16/21. 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
- ▲ Additional POI for Consideration*

*Detailed list provided in accompanying Excel

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**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>Kearney Street Café</td>
<td>Restaurant</td>
<td>1324 W Kearney St</td>
</tr>
<tr>
<td>2</td>
<td>Queen of All Saints Catholic Church</td>
<td>Worship</td>
<td>1505 W Atlantic St</td>
</tr>
<tr>
<td>3</td>
<td>Grace Bible Baptist Church</td>
<td>Worship</td>
<td>2101 N Johnston Ave</td>
</tr>
<tr>
<td>4</td>
<td>Bowerman Elementary School</td>
<td>School</td>
<td>2148 N Douglas Ave</td>
</tr>
<tr>
<td>5</td>
<td>Reed Middle School</td>
<td>School</td>
<td>2000 N Lyon Ave</td>
</tr>
</tbody>
</table>

---

**OUTREACH CONSIDERATIONS**

- Consider partnering with local schools, Parent Teacher Associations (PTAs), and daycare/summer camps to host vaccination events as part of back-to-school efforts.
- Consider partnering with local businesses to offer vaccinations on site and inform employers about tax credits to cover the costs of providing paid time off.
- Where possible, match canvassers to the neighborhood (e.g., people from the area, people of faith, parents with children) and encourage sharing of personal stories, shared values, and reasons for vaccination.
This tract at a glance:

96% 62% 61% 33% 55%
White Under 55 High-school educated or below At high-risk for at least 1 health condition Households with children

VALUES & PREFERENCES

68% seek out primary care providers (PCP) for health care
29% utilize community and/or retail health clinics
79% identify as religious – majority Christian

ACCESS FACTORS

Income
73% have an income below $30k

Net Worth
67% have $0 or less net worth

Broadband
21% likely do not have broadband access

Health Insurance
22% are likely uninsured

Employment
The tract's top occupations are:
1. Office and Administrative
2. Construction & Extraction
3. Production

COVID-19 METRICS

64% 14% 1,794
% Unvaccinated 14-Day Increase in Case Rate # Unvaccinated
7,308 per 100k 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 07/14/2021. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 7/2/21 to 07/16/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.
Target Census Tract –003300 | Outreach Considerations

Outreach Considerations

- Consider partnering with construction and production companies to bring mobile vaccinations on site and inform employers about tax credits to cover costs of providing paid time off.
- Consider leveraging unions and employee groups as trusted voices in the community to host listening sessions and share information.
- Consider partnering with faith leaders at local places of worship to promote vaccination (e.g., encourage pastors to write op-eds in the local paper or host listening sessions with their congregation).
- Emphasize that the vaccine is completely free and does not require health insurance (*"No ID or insurance required"*)

### 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>Doing Steel Business</td>
<td>2015 N Golden Ave</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Central Plains Cement Business</td>
<td>2125 N Golden Ave</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Tom Watkins Community Center / Park</td>
<td>2100 High Street</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Palmer Heights Baptist Church Worship</td>
<td>1606 W High St</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Springfield Faith Assembly Worship</td>
<td>2001 W Division ST</td>
<td></td>
</tr>
</tbody>
</table>

### POI Legend

- **Vulnerable Population**: < $30k income and/or 1+ comorbid conditions and/or racial/ethnic minority
- **POI Legend**: Highlighted POI in Table, Additional POI for Consideration*

*Detailed list provided in accompanying Excel

For internal use only by State of Missouri. Output based on available data.
This tract at a glance:

- **97%** White
- **51%** Under 55
- **55%** High-school educated or below
- **33%** At high-risk for at least 1 health condition
- **42%** Households with children

### VALUES & PREFERENCES

79% seek out primary care providers (PCP) for health care

17% utilize community and/or retail health clinics

78% identify as religious – majority Christian

Likely to prefer Phone for outreach

### ACCESS FACTORS

- **Income**: 33% have an income below $30k
- **Net Worth**: 33% have $0 or less net worth
- **Broadband**: 14% likely do not have broadband access
- **Health Insurance**: 19% are likely uninsured

### COVID-19 METRICS

- **64%** % Unvaccinated
- **8%** 14-Day Change in Case Rate
- **2,913** # Unvaccinated
- **11,244 per 100k** 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 07/14/2021. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 7/2/21 to 07/16/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.
Target Census Tract –090602 | Outreach Considerations

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

OUTREACH CONSIDERATIONS

- Leverage family physicians as trusted advisors in this community and ask them to recommend vaccination during routine appointments.

- Consider partnering with faith leaders at local places of worship to promote vaccination (e.g., encourage pastors to write op-eds in the local paper or host listening sessions at their church).

- Consider partnering with local elected officials and local media figures to advocate for vaccination and explain their personal choice to be vaccinated, using messages that are true to their values.

- Consider partnering with local police and fire leaders to serve as vaccine “ambassadors” to speak to their community about vaccination and participate in ‘get out the shot’ canvassing.

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>Southern Stone County Fire Protection</td>
<td>Police/Fire</td>
<td>21631 Old Highway 160</td>
</tr>
<tr>
<td></td>
<td>District Station 8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>First Baptist Church of Reed Spring</td>
<td>Worship</td>
<td>21969 Main St</td>
</tr>
<tr>
<td>3</td>
<td>Boys and Girls Club of America</td>
<td>Community Center</td>
<td>300 Wolves Ln</td>
</tr>
<tr>
<td>4</td>
<td>Reed’s Spring Middle School</td>
<td>School</td>
<td>21016 Main St</td>
</tr>
<tr>
<td>5</td>
<td>Branson West Police Department</td>
<td>Police/Fire</td>
<td>110 Silver Lady Ln</td>
</tr>
</tbody>
</table>

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

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

*Detailed list provided in accompanying Excel
Appendix
For the time period between 7/2/21 and 7/16/21, 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.

**Case Rates and Statistical Hotspots**

Southwest Missouri (Region D) experienced **second straight instance of sharp increases in case rates**

Case rate increases were most intense in the **greater Springfield** area; while some parts of Region D were flat or experienced decreases.

Statistical hotspots largely **remained consistent** in comparison to last week's results.

**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 07/16/21. Previous 2-week change view provided in the Appendix, along with methodology, data sources, and limitations.
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