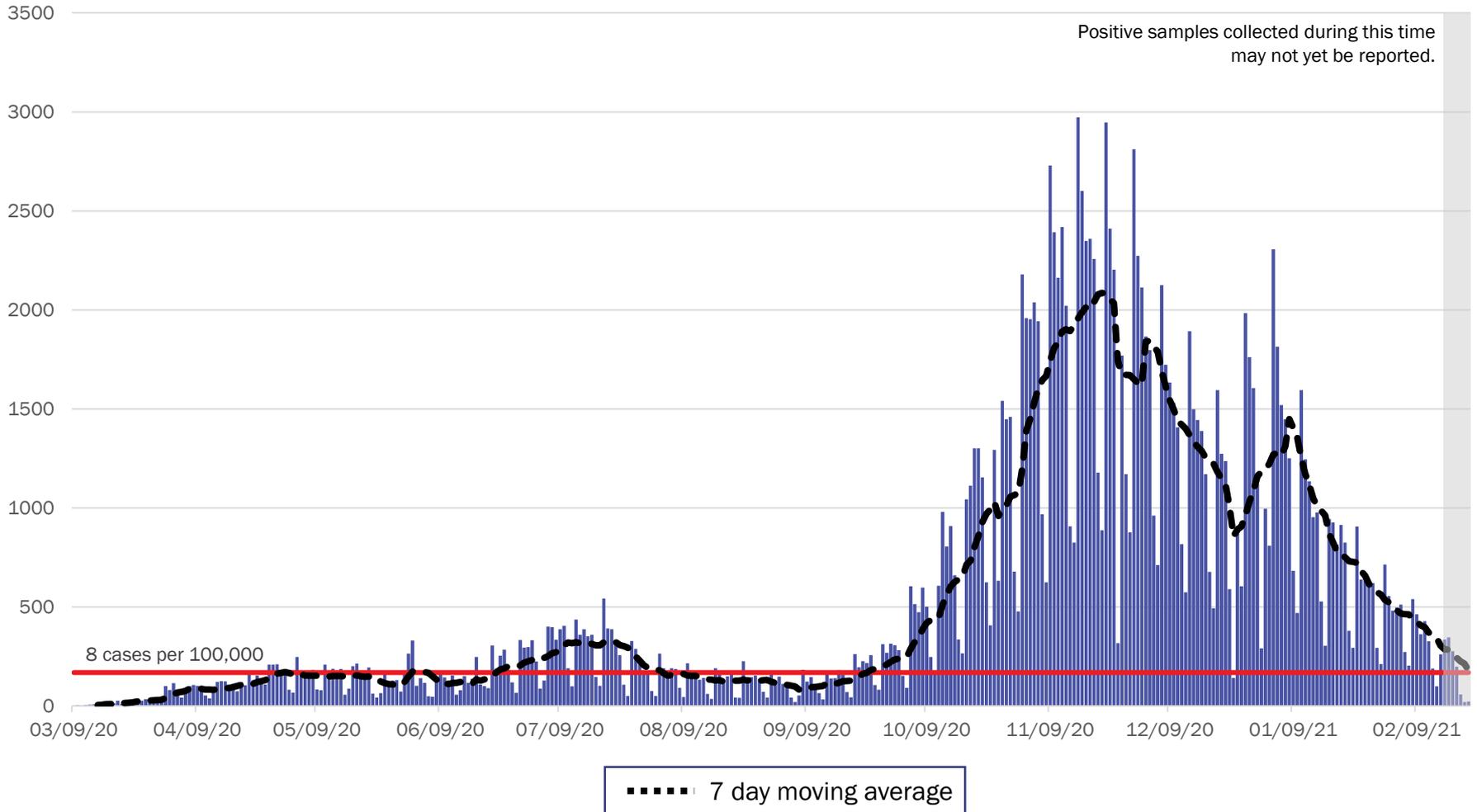


# COVID-19 in New Mexico: Epidemiologic and Modeling Update

February 23, 2021

# New Mexico COVID-19 Cases by Date of Specimen Collection

## February 22, 2021



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021, New Mexico Department of Health.

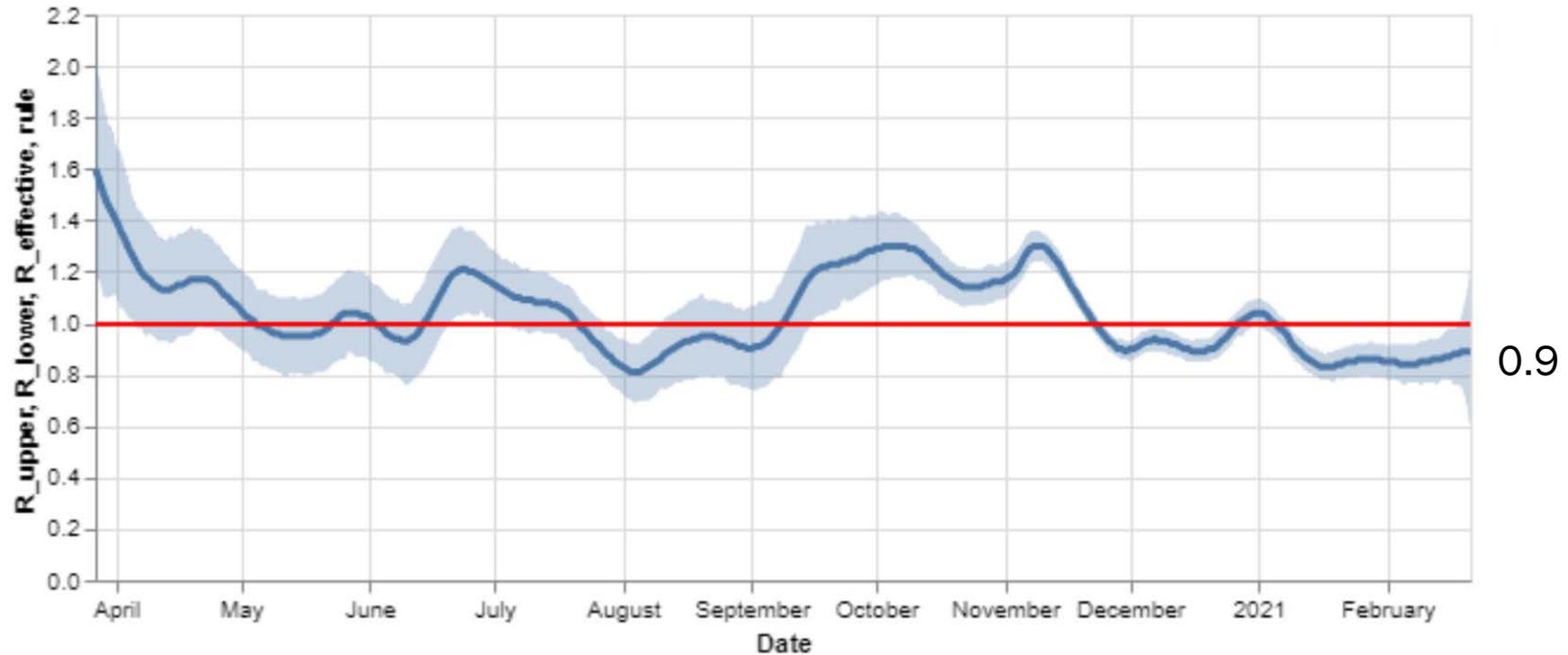


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# Statewide R-effective has increased to 0.9.

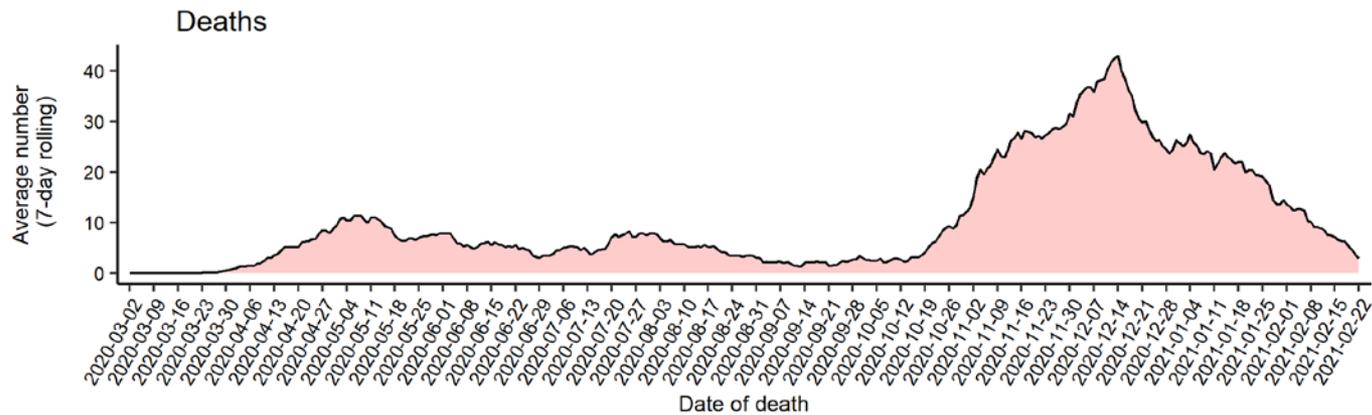
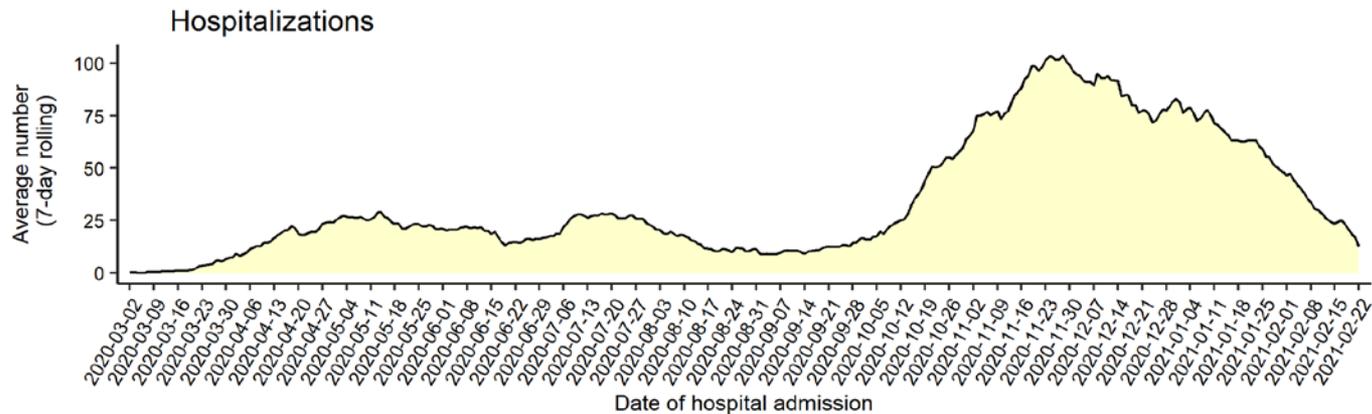
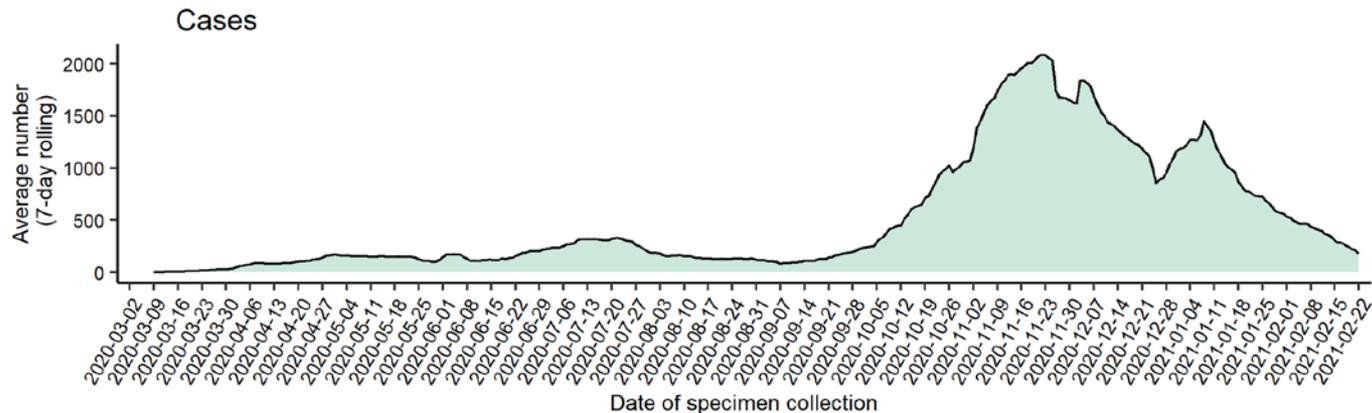
## R\_effective over time, STATE



0.9

Courtesy of Presbyterian Healthcare Services – February 22, 2021.

# Average number (7-day rolling average) of cases, hospitalizations, and deaths over time



*Note: Cases, hospitalizations, and deaths may not yet be reported in 7 or more days.*

*As of 2/22/21*



**Key**

- Low Level Endemic <1.0
- Approaching Low Level Endemic 1.0
- Requiring further mitigation >1.0

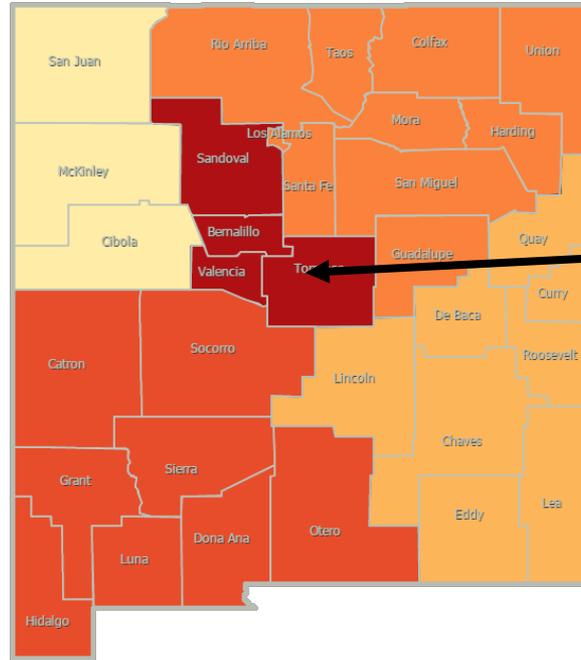
**Northwest**  
R\_effective 1.0 ↑

**Northeast**  
R\_effective 0.9 ↑

**Metro**  
R\_effective 0.8 =

**Southwest**  
R\_effective 1.0 ↑

**Southeast**  
R\_effective 0.9 ↑



As of February 16, 2021

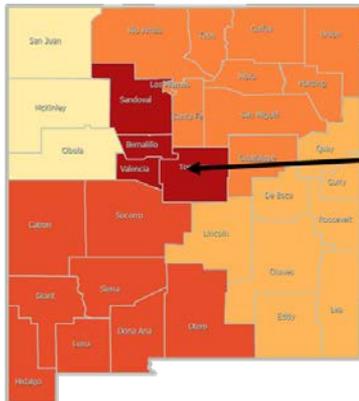
**Northwest**  
R\_effective 0.8 =

**Northeast**  
R\_effective 0.6 ↓

**Metro**  
R\_effective 0.8 ↓

**Southwest**  
R\_effective 0.9 =

**Southeast**  
R\_effective 0.8 =



| Region    | R-effective | 95% Confidence Interval |
|-----------|-------------|-------------------------|
| State     | 0.9         | [0.6, 1.2]              |
| Metro     | 0.8         | [0.3, 1.4]              |
| Northeast | 0.9         | [0.0, 2.0]              |
| Northwest | 1.0         | [0.0, 2.0]              |
| Southeast | 0.9         | [0.0, 2.0]              |
| Southwest | 1.0         | [0.4, 1.7]              |

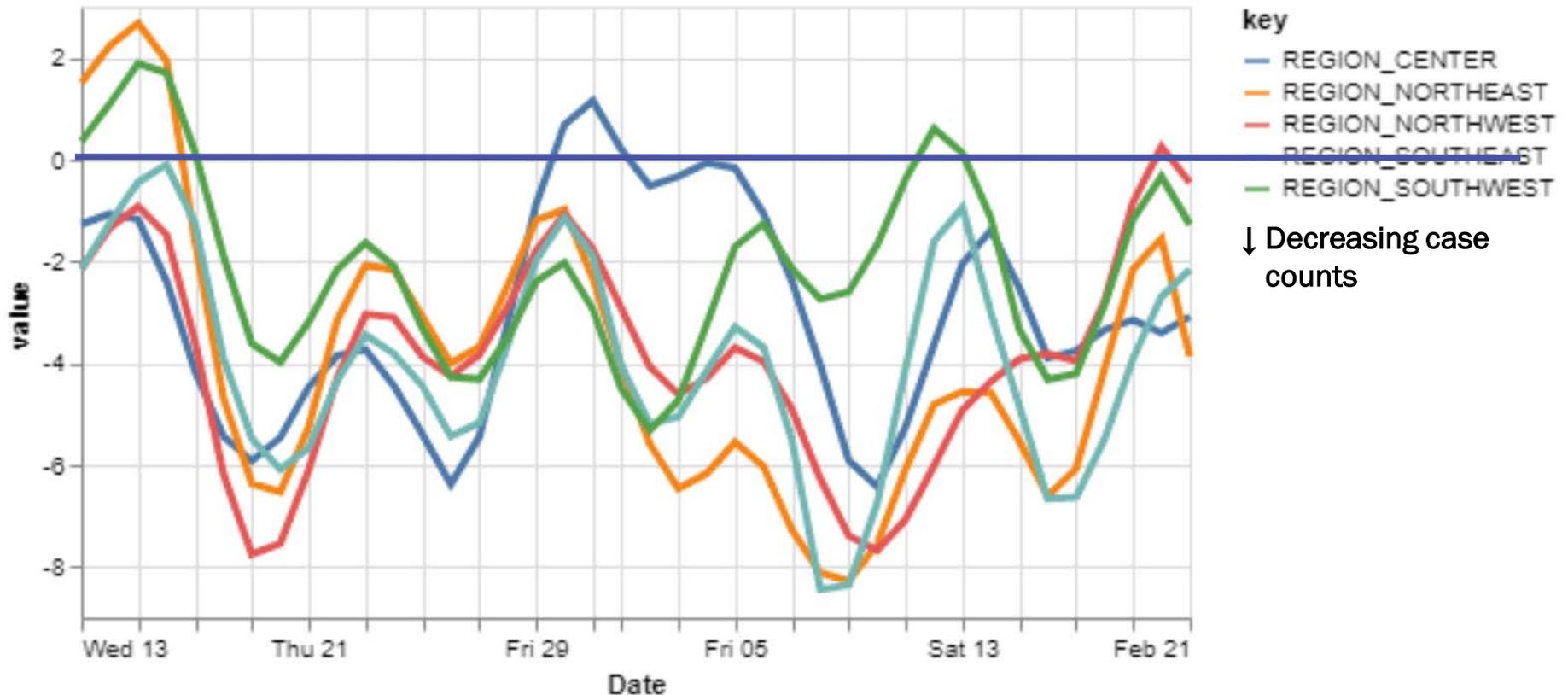
Courtesy of Presbyterian Healthcare Services – February 22, 2021.



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# All five regions have growth below 0.

## 14-day relative growth rate (%), Regions



key

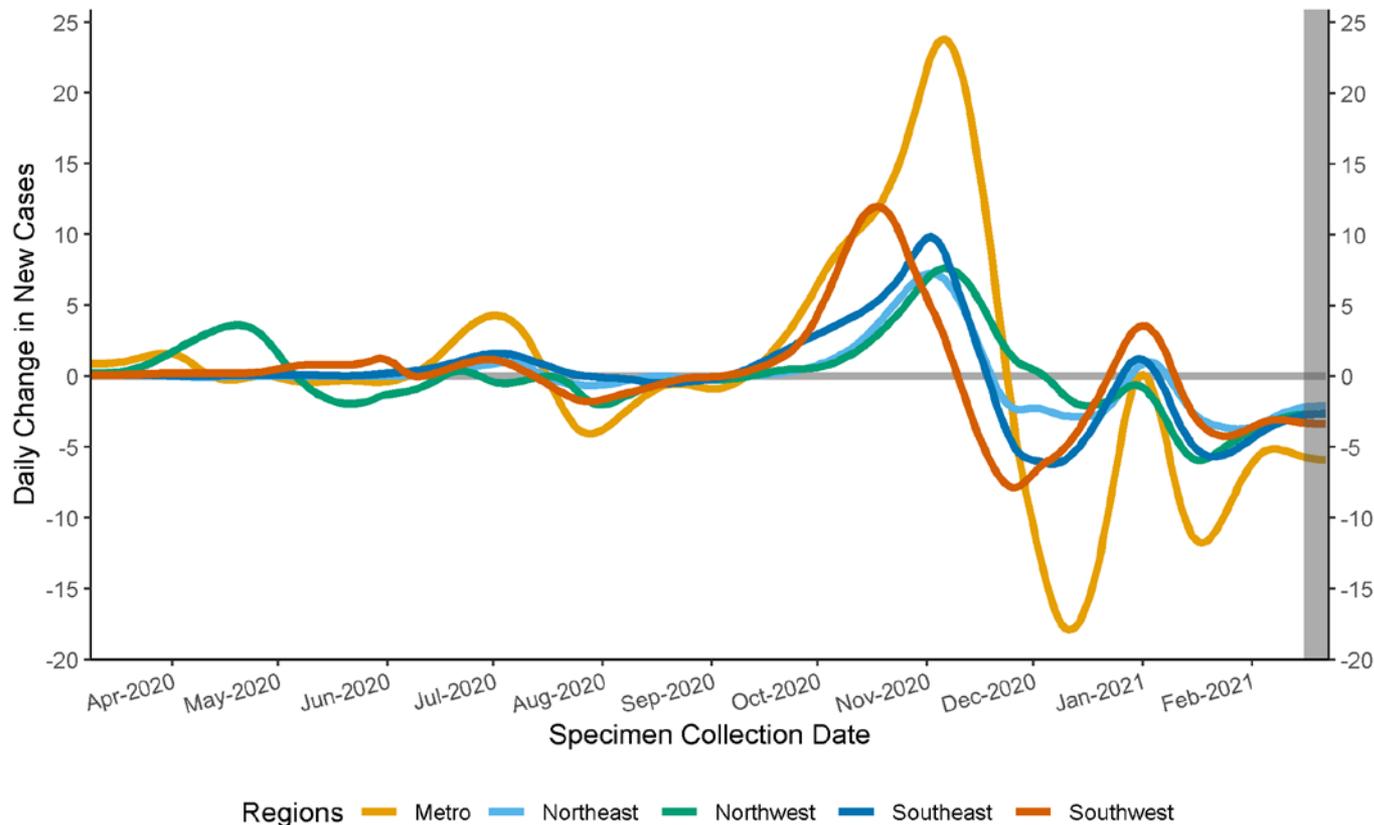
- REGION\_CENTER
- REGION\_NORTHEAST
- REGION\_NORTHWEST
- REGION\_SOUTHEAST
- REGION\_SOUTHWEST

↓ Decreasing case counts

Courtesy of Presbyterian Healthcare Services – February 22, 2021.

# Epidemic Growth Acceleration

Daily Change in New COVID-19 Cases, by New Mexico Region, as of February 22, 2021

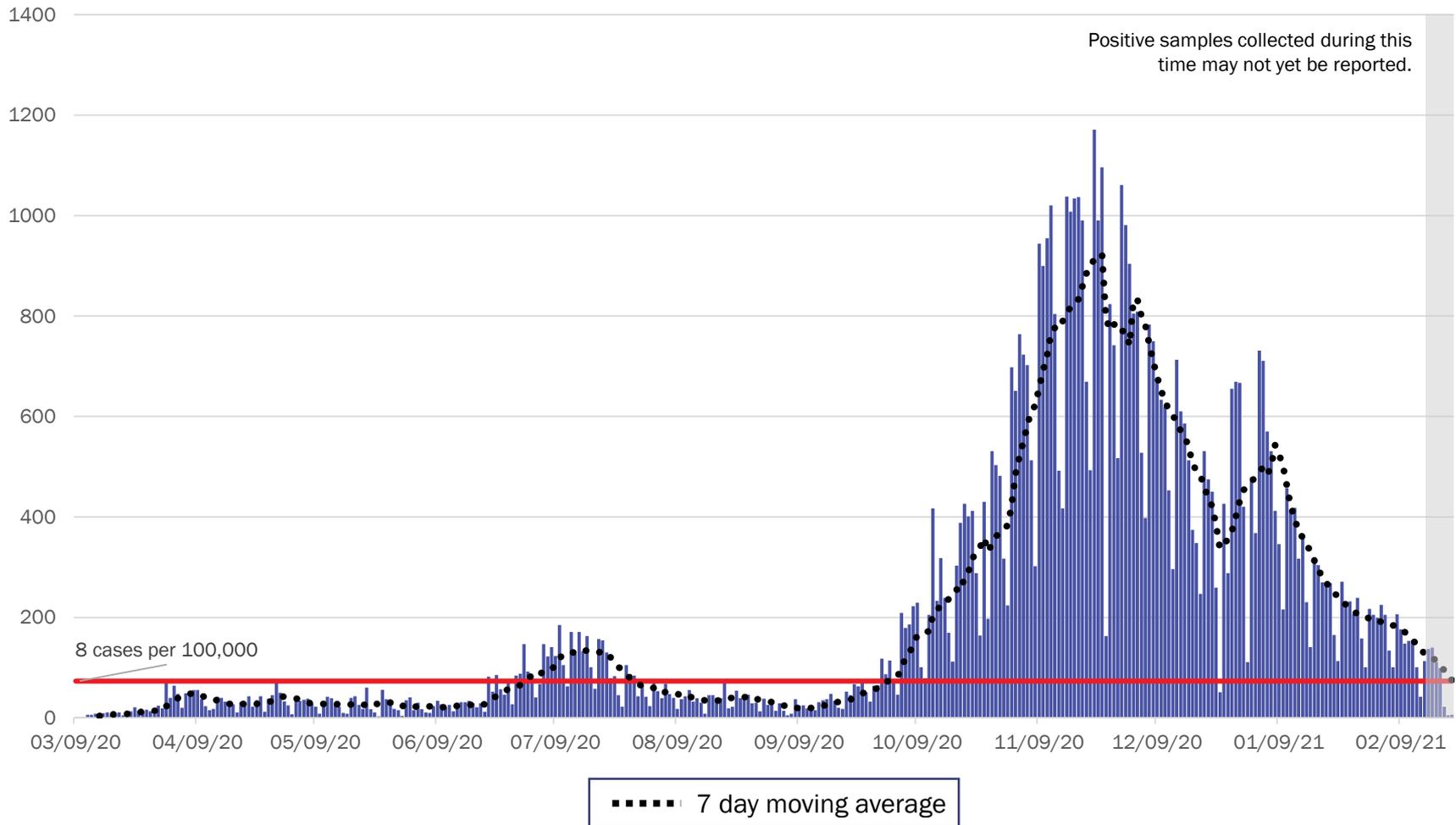


| Region    | Growth Acceleration February 15, 2021 |
|-----------|---------------------------------------|
| Metro     | -5.6                                  |
| Northeast | -2.2                                  |
| Northwest | -2.7                                  |
| Southeast | -2.8                                  |
| Southwest | -3.3                                  |

\*Positive specimens collected in the last 7 or more days may not yet be reported to NMDOH. Case counts and growth acceleration during this time are underestimated.

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021, New Mexico Department of Health.

# Metro Region Case Count by Collection Date with 7 Day Moving Average February 22, 2021

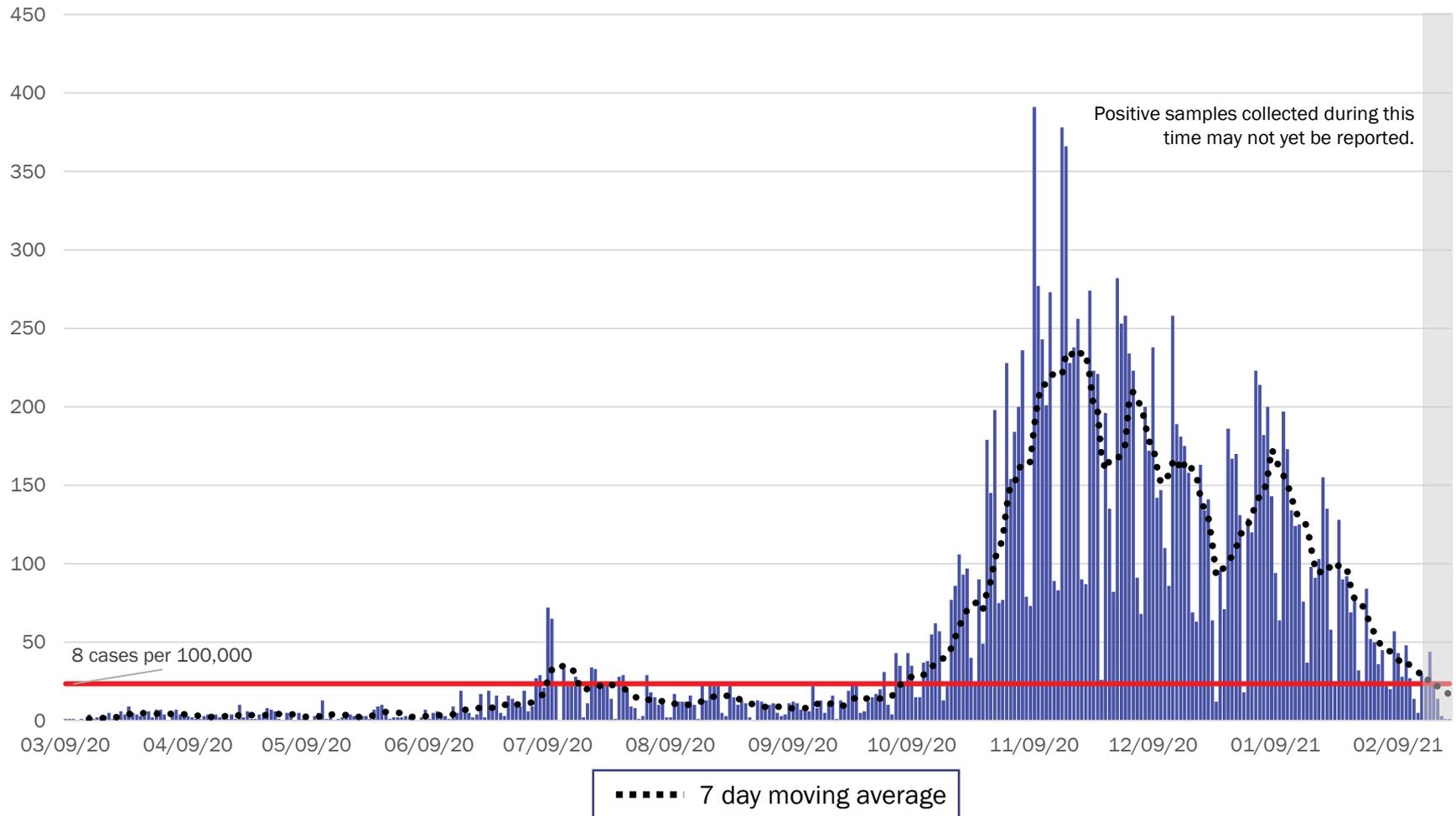


Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021, New Mexico Department of Health.



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# Northeast Region Case Count by Collection Date with 7 Day Moving Average February 22, 2021



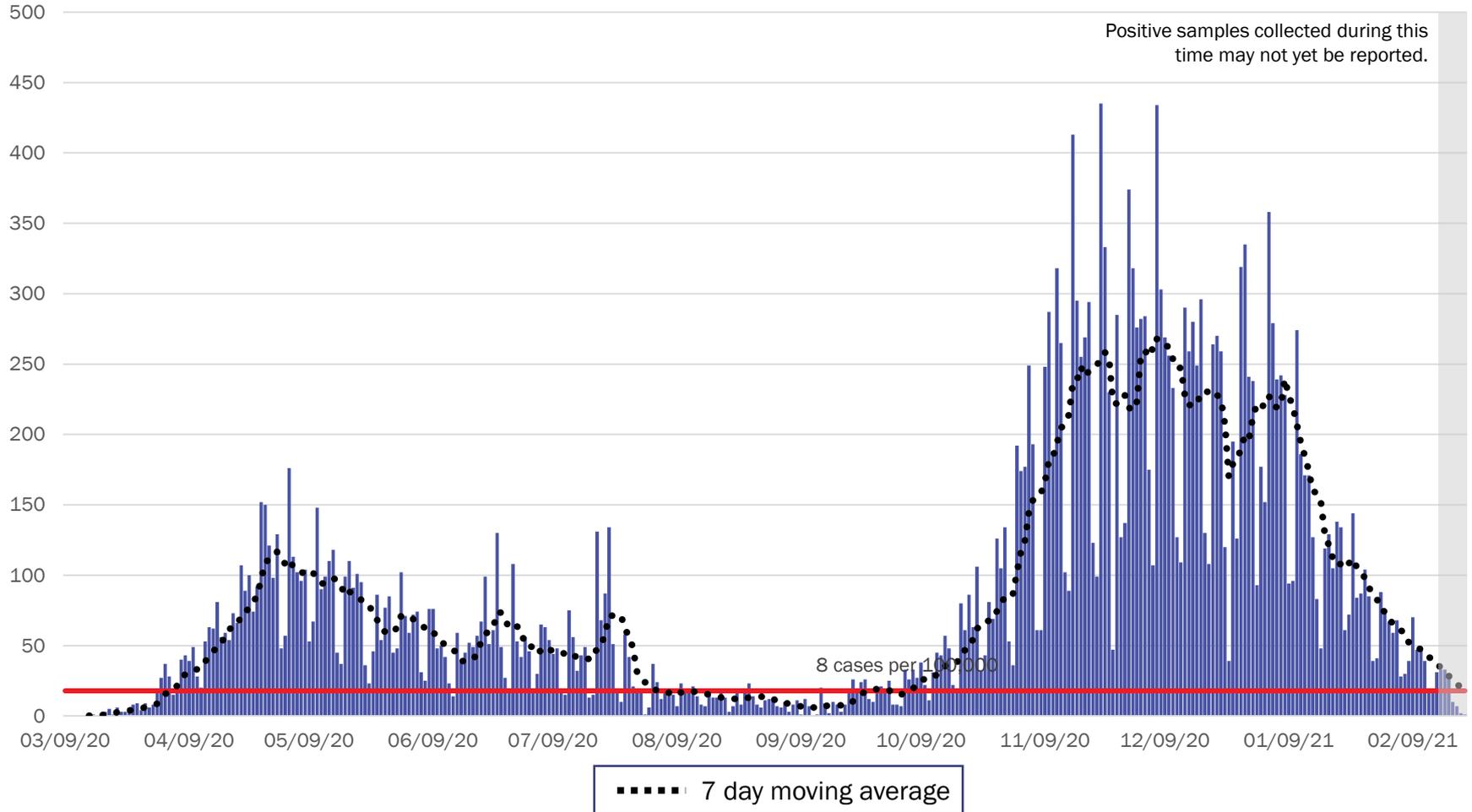
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021 New Mexico Department of Health.



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# Northwest Region Case Count by Collection Date with 7 Day Moving Average February 22, 2021



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021, New Mexico Department of Health.



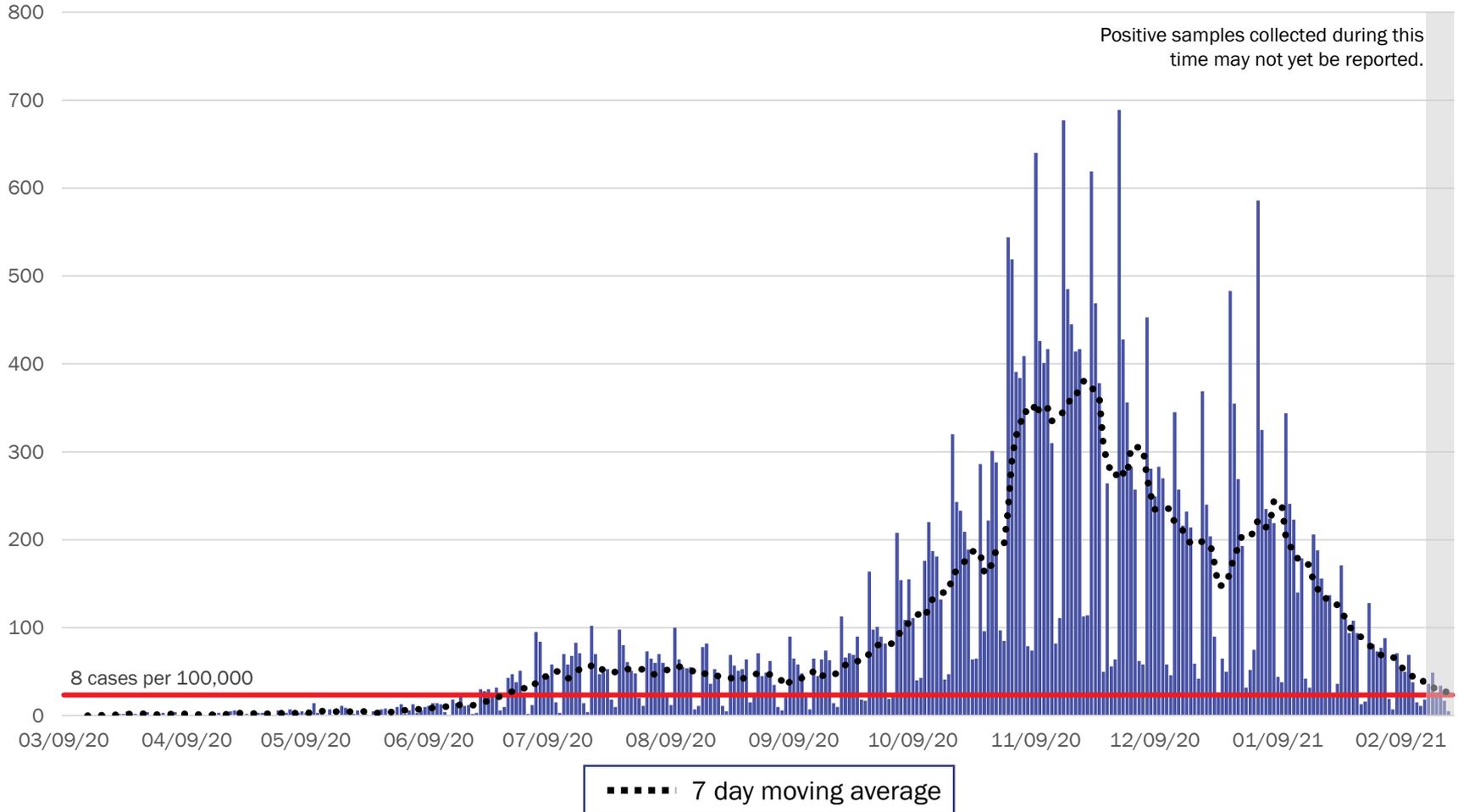
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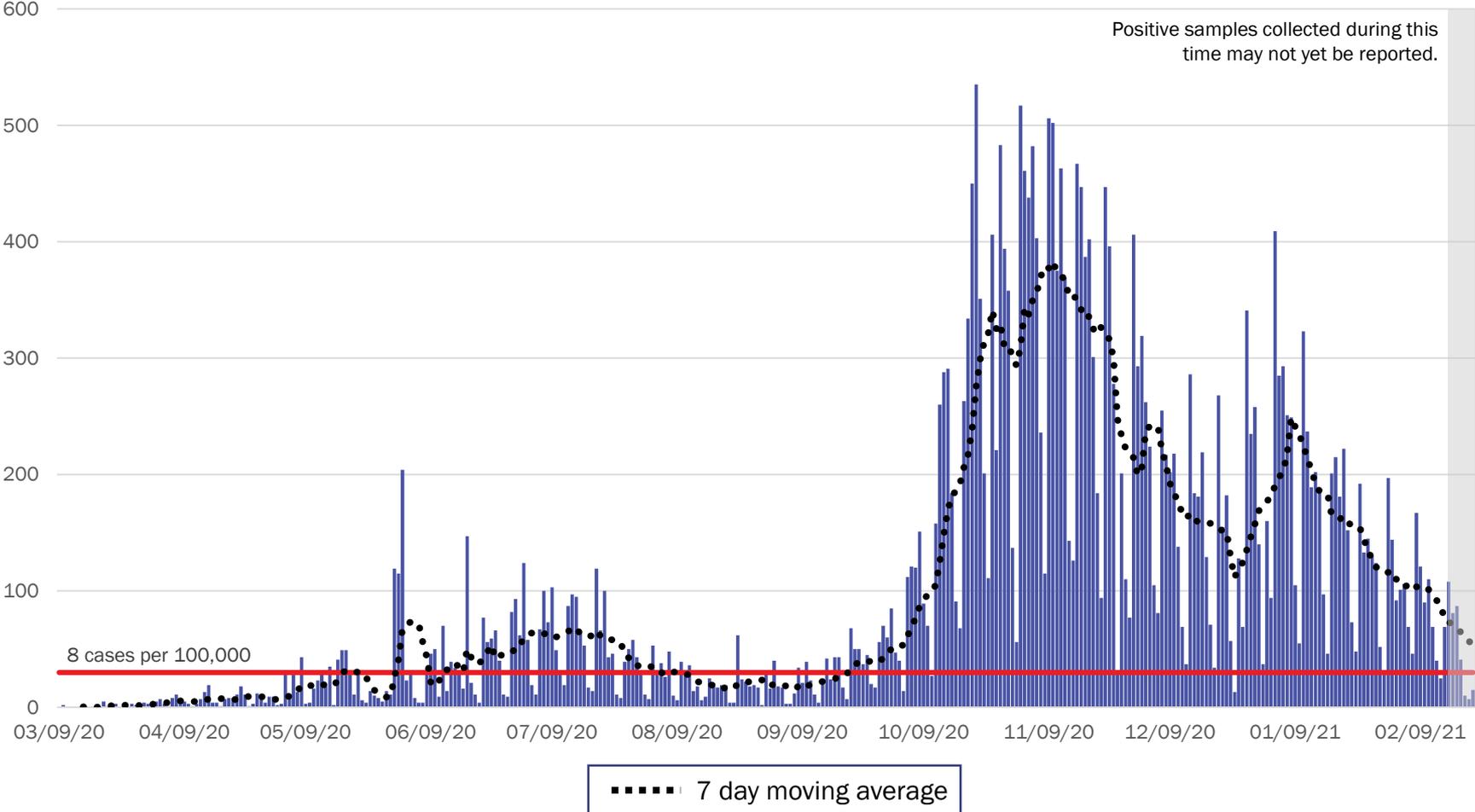
# Southeast Region Case Count by Collection Date with 7 Day Moving Average

## February 22, 2021



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021, New Mexico Department of Health.

# Southwest Region Case Count by Collection Date with 7 Day Moving Average February 22, 2021



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021, New Mexico Department of Health.



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# New Mexico Status Updates

- Case count: Statewide, daily case counts are declining.
- Hospitalizations: Hospitalizations are declining.
- Deaths: Weekly COVID-19 deaths are declining.

For more information, please visit the [Epidemiology Reports](https://cv.nmhealth.org/epidemiology-reports/) page on the NMDOH COVID-19 website: <https://cv.nmhealth.org/epidemiology-reports/>

# Supplementary Slides

# Modeling Assumptions

| Variable                      | Measured Value  | Value as of 2.22.2021   |
|-------------------------------|---|---|
| R_Effective                   | Actual Measured<br>Daily Value by key county<br>Calculated by PHS                 | R_eff=0.9   |
| Positive Test Multiplier      | Calculated by PHS   | 2.1   |
| Hospitalization and Mortality | Actual rolling value / estimated<br>number of total infected<br>Calculated by PHS | Medical 0.13%<br>ICU 0.07%<br>Vent Rate 55% of ICU<br>Crude Case Fatality Rate 2.1% |
| Length of Stay                | Assumed values  | Medical 5 days<br>ICU 14 days<br>ICU on Vent 14 days                                |