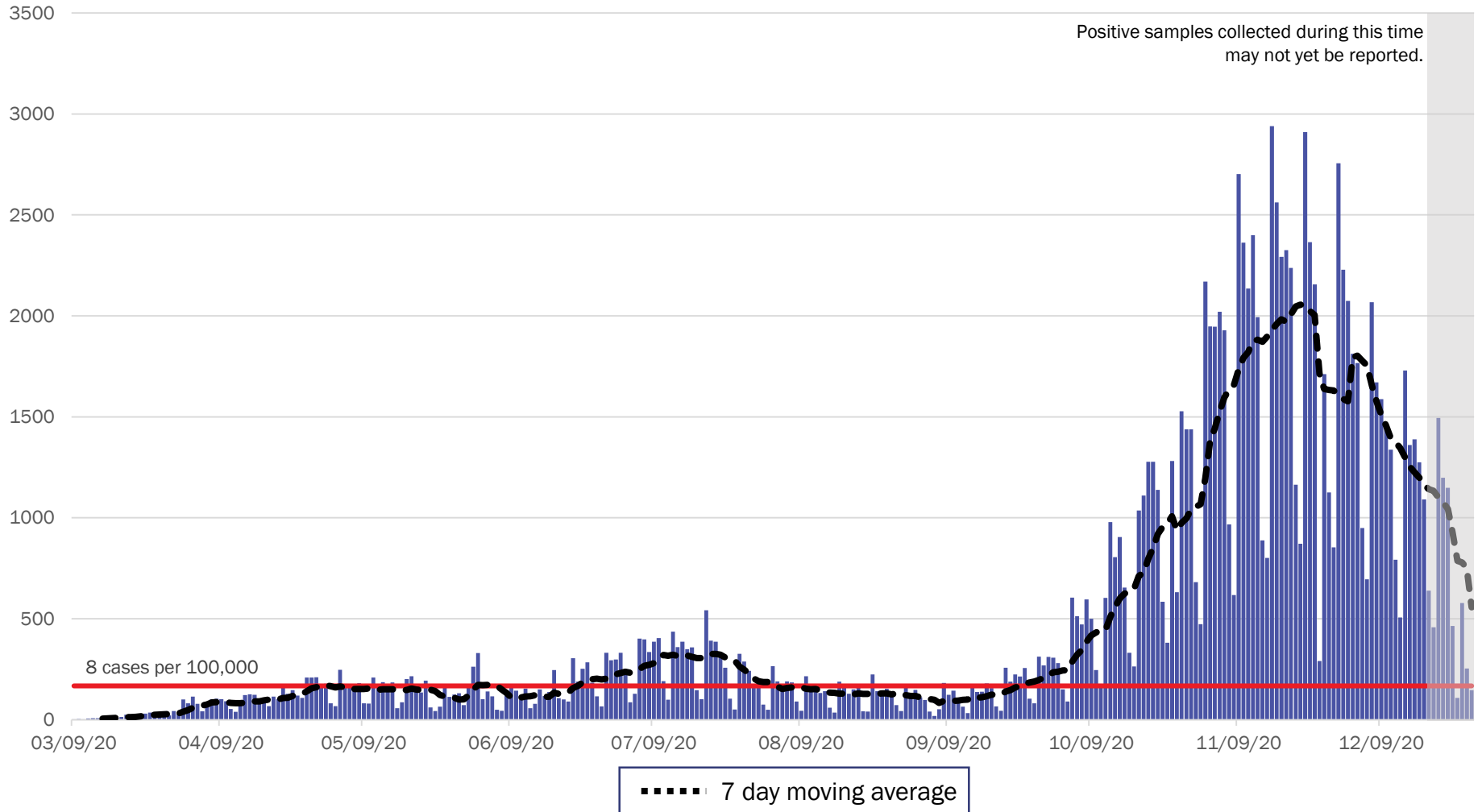


# COVID-19 in New Mexico: Epidemiologic and Modeling Update

December 29, 2020

# New Mexico COVID-19 Cases by Date of Specimen Collection – December 29, 2020



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, New Mexico Department of Health.

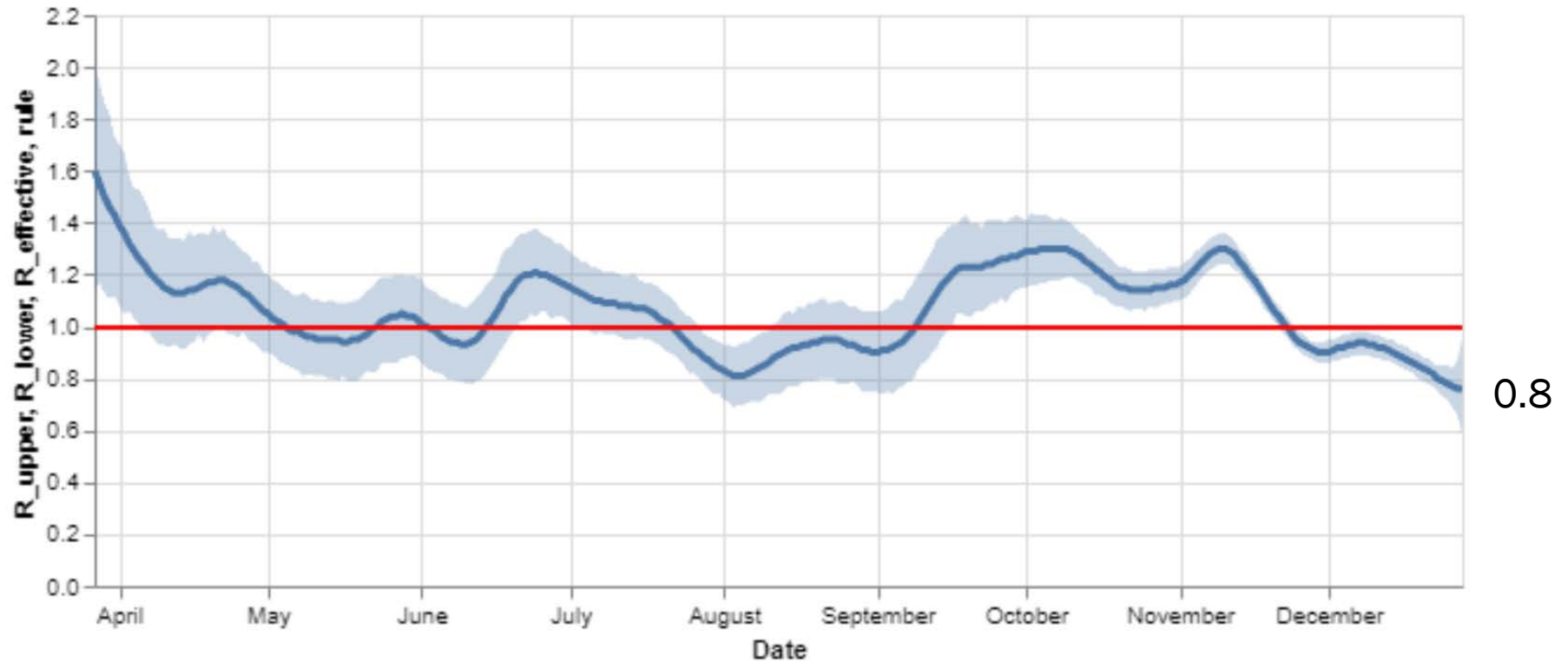


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# Statewide R-effective has decreased to 0.8.

## R\_effective over time, STATE



0.8

Courtesy of Presbyterian Healthcare Services – December 29, 2020.

**Key**

Low Level Endemic  
**<1.0**

Approaching Low Level Endemic  
**1.0**

Requiring further mitigation  
**>1.0**

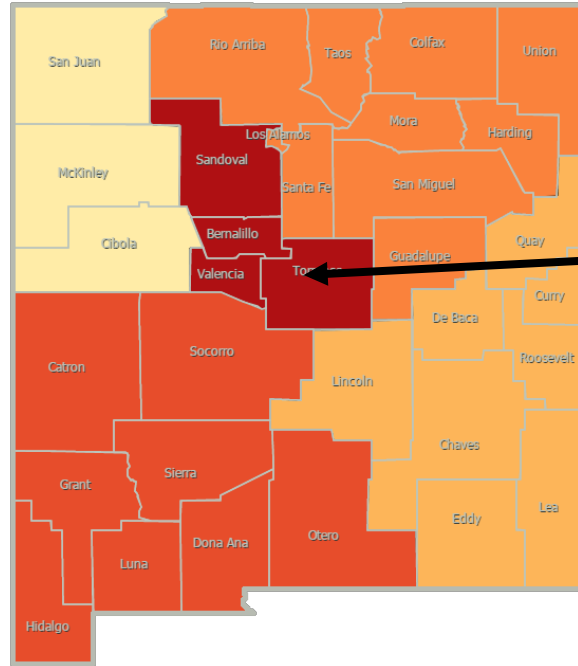
**Northwest**  
**R\_effective 0.8 ↓**

**Northeast**  
**R\_effective 0.7 ↓**

**Metro**  
**R\_effective 0.7 ↑**

**Southwest**  
**R\_effective 0.9 =**

**Southeast**  
**R\_effective 0.9 ↑**



As of December 22, 2020

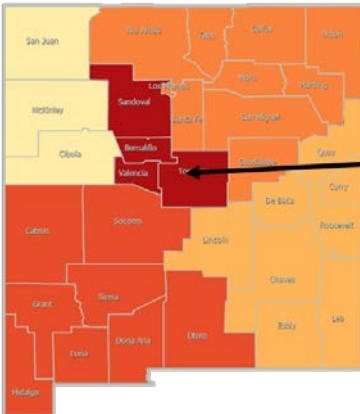
**Northwest**  
**R\_effective 1.0 ↑**

**Northeast**  
**R\_effective 0.9 ↓**

**Metro**  
**R\_effective 0.9 ↑**

**Southwest**  
**R\_effective 0.9 ↑**

**Southeast**  
**R\_effective 0.8 ↓**

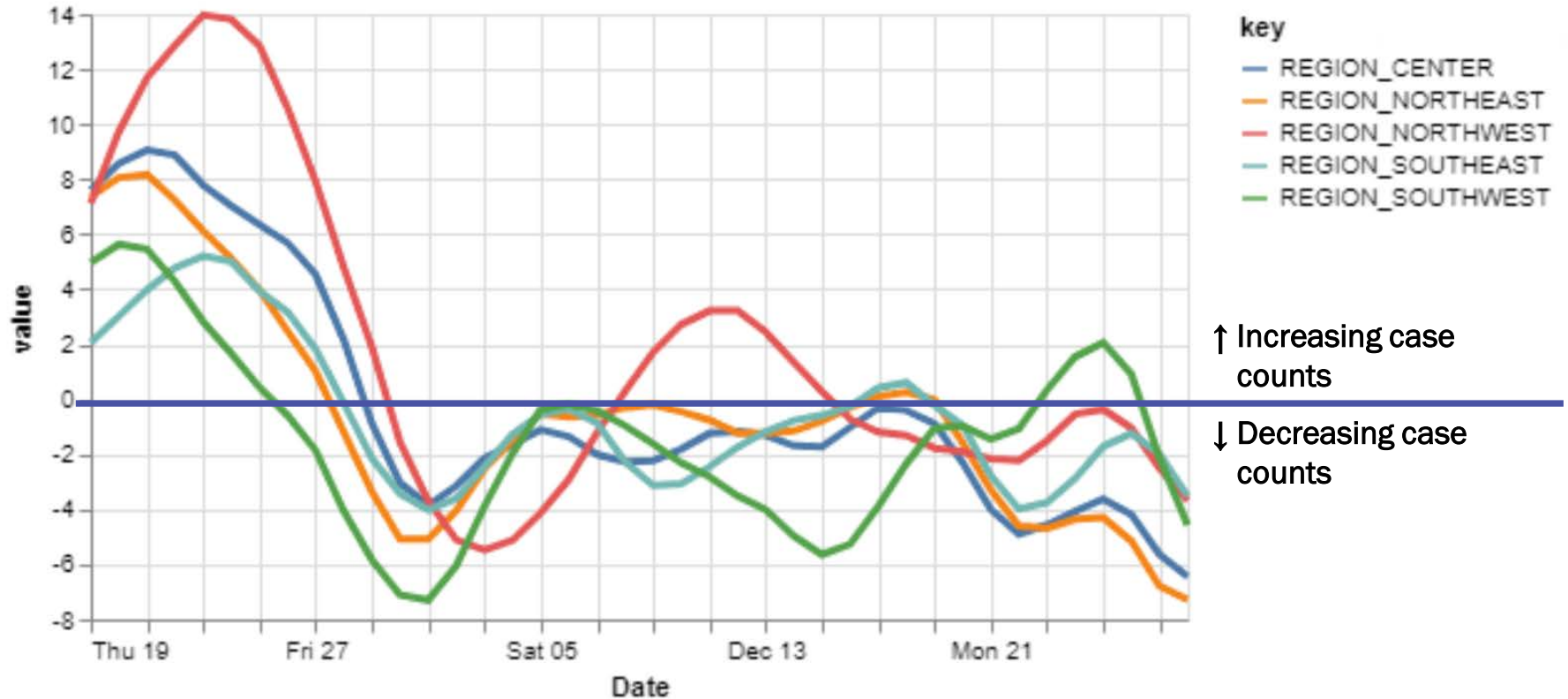


Region	R-effective	95% Confidence Interval
State	0.8	[0.6, 1.0]
Metro	0.7	[0.4, 1.0]
Northeast	0.7	[0.1, 1.2]
Northwest	0.8	[0.4, 1.2]
Southeast	0.9	[0.4, 1.3]
Southwest	0.9	[0.4, 1.5]

Courtesy of Presbyterian Healthcare Services – December 29, 2020.

# All five regions have growth rates less than 0.

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



↑ Increasing case counts  
↓ Decreasing case counts

Courtesy of Presbyterian Healthcare Services – December 29, 2020.



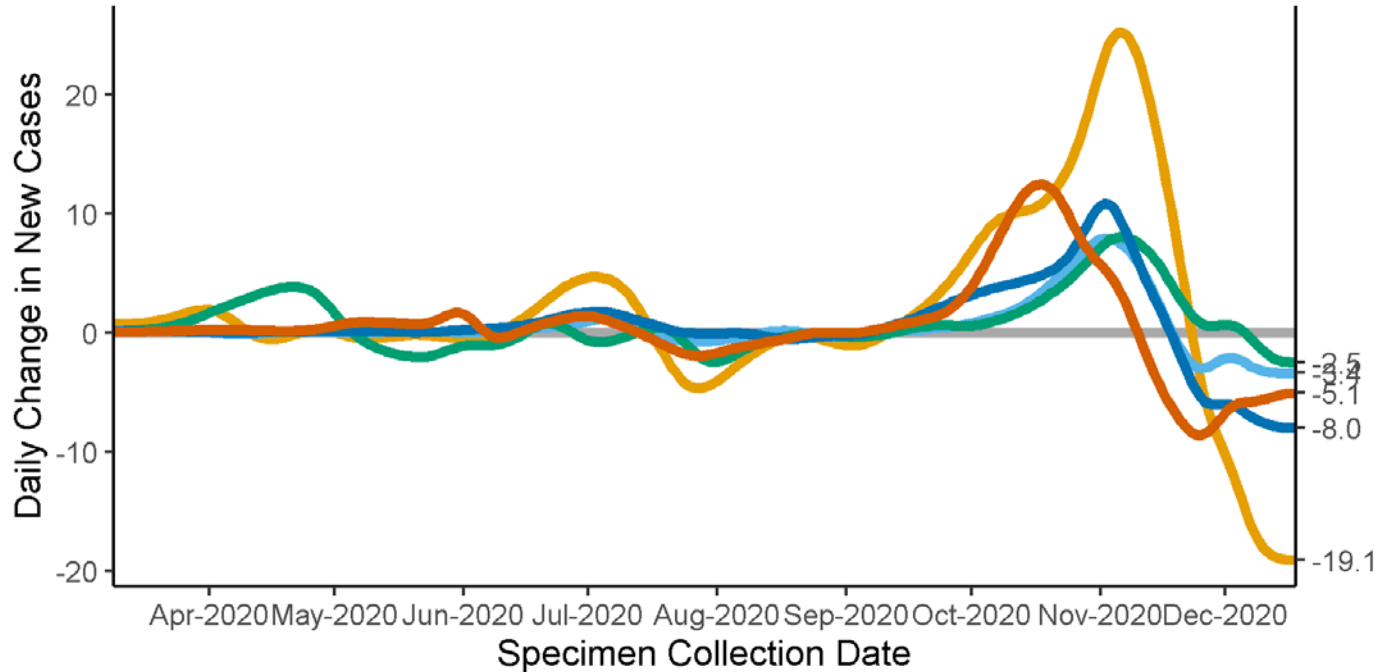
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# Epidemic Growth Acceleration

Daily Change in New COVID-19 Cases, by New Mexico Region, as of December 29, 2020

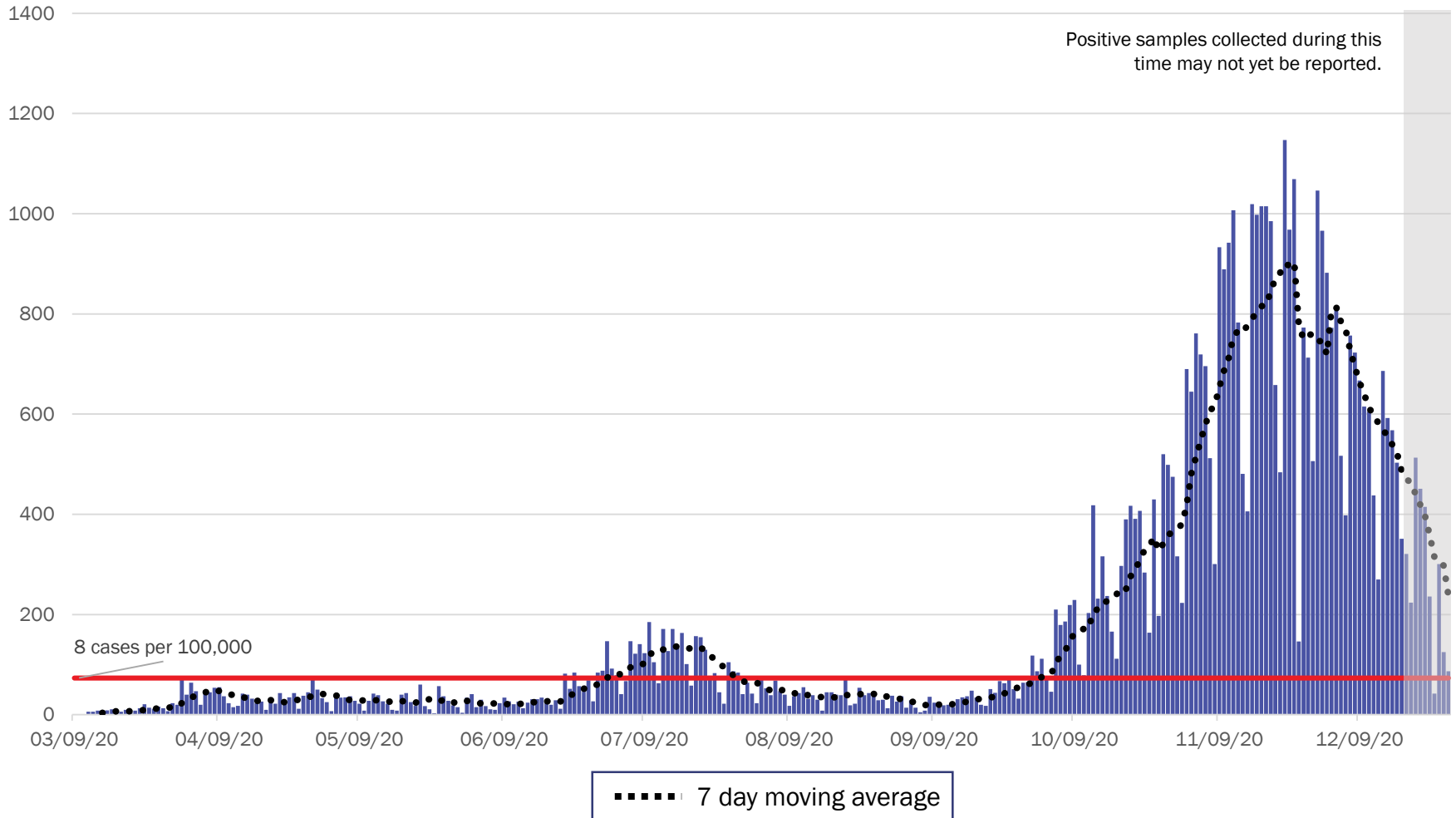


Regions — Metro — Northeast — Northwest — Southeast — Southwest

Assumes a 10 day lag in result reporting.

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, New Mexico Department of Health.

# Metro Region Case Count by Collection Date with 7 Day Moving Average December 29, 2020



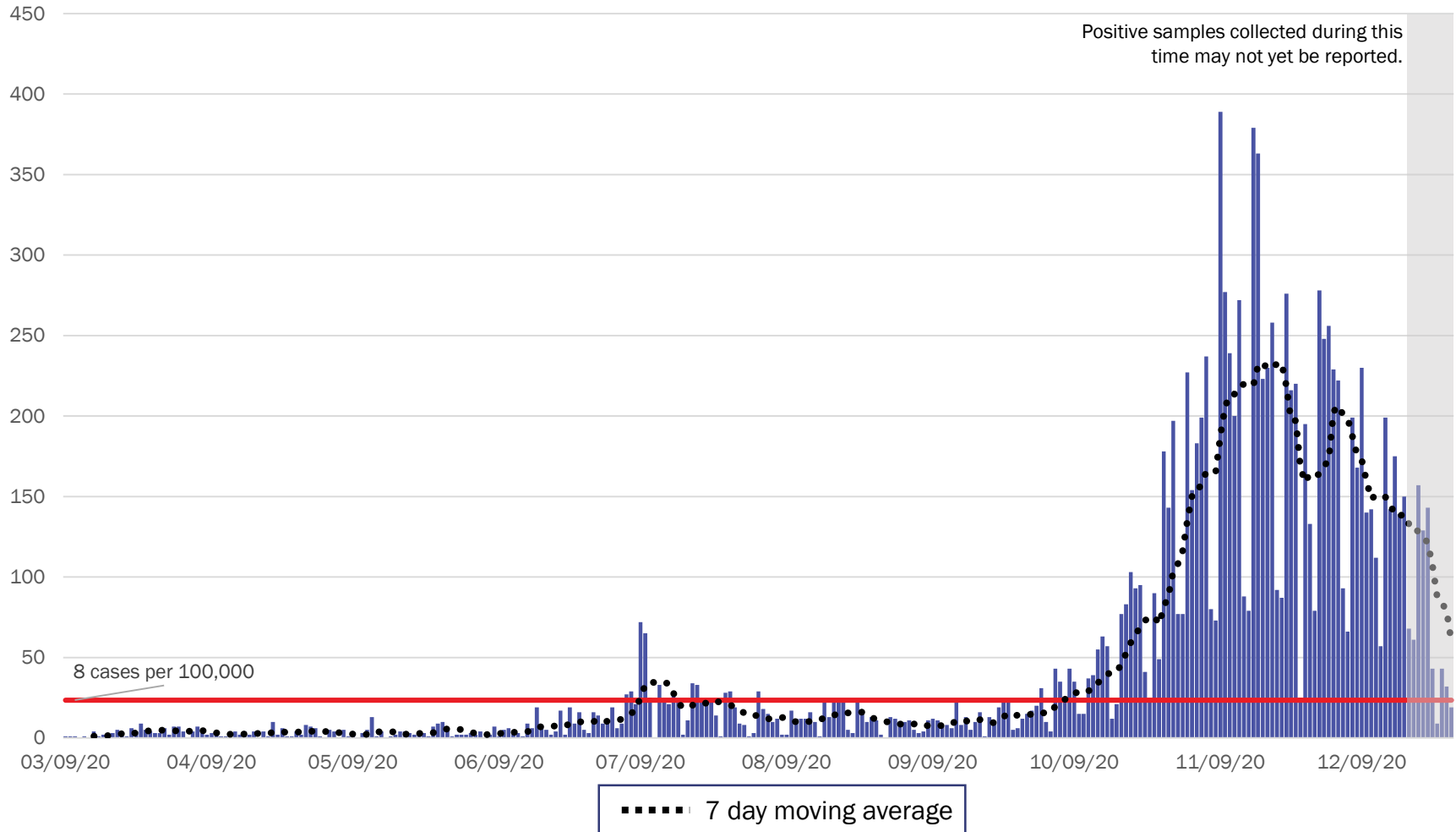
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, New Mexico Department of Health.



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# Northeast Region Case Count by Collection Date with 7 Day Moving Average December 29, 2020



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, New Mexico Department of Health.

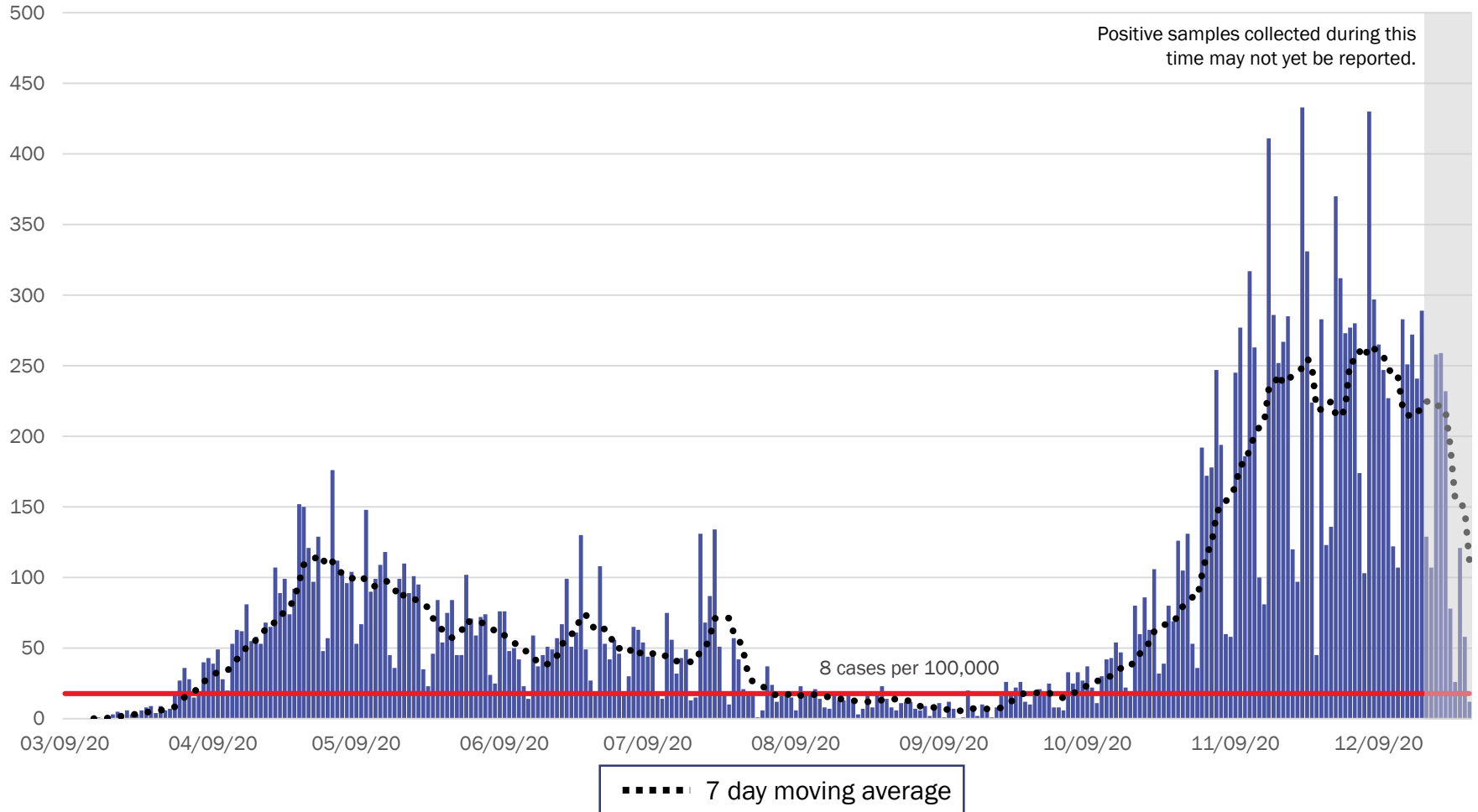


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# Northwest Region Case Count by Collection Date with 7 Day Moving Average December 29, 2020



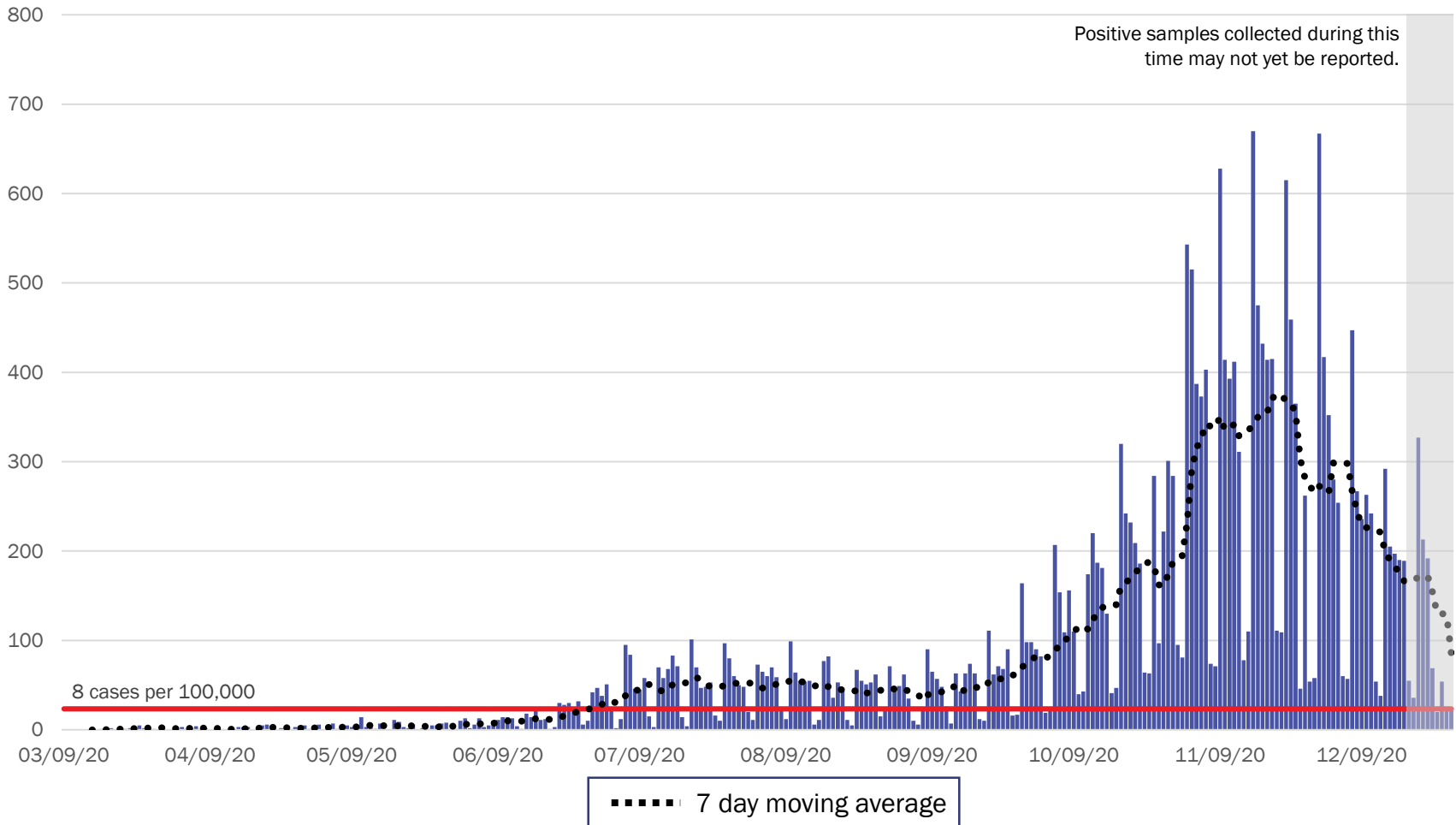
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, New Mexico Department of Health.



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# Southeast Region Case Count by Collection Date with 7 Day Moving Average December 29, 2020



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, New Mexico Department of Health.

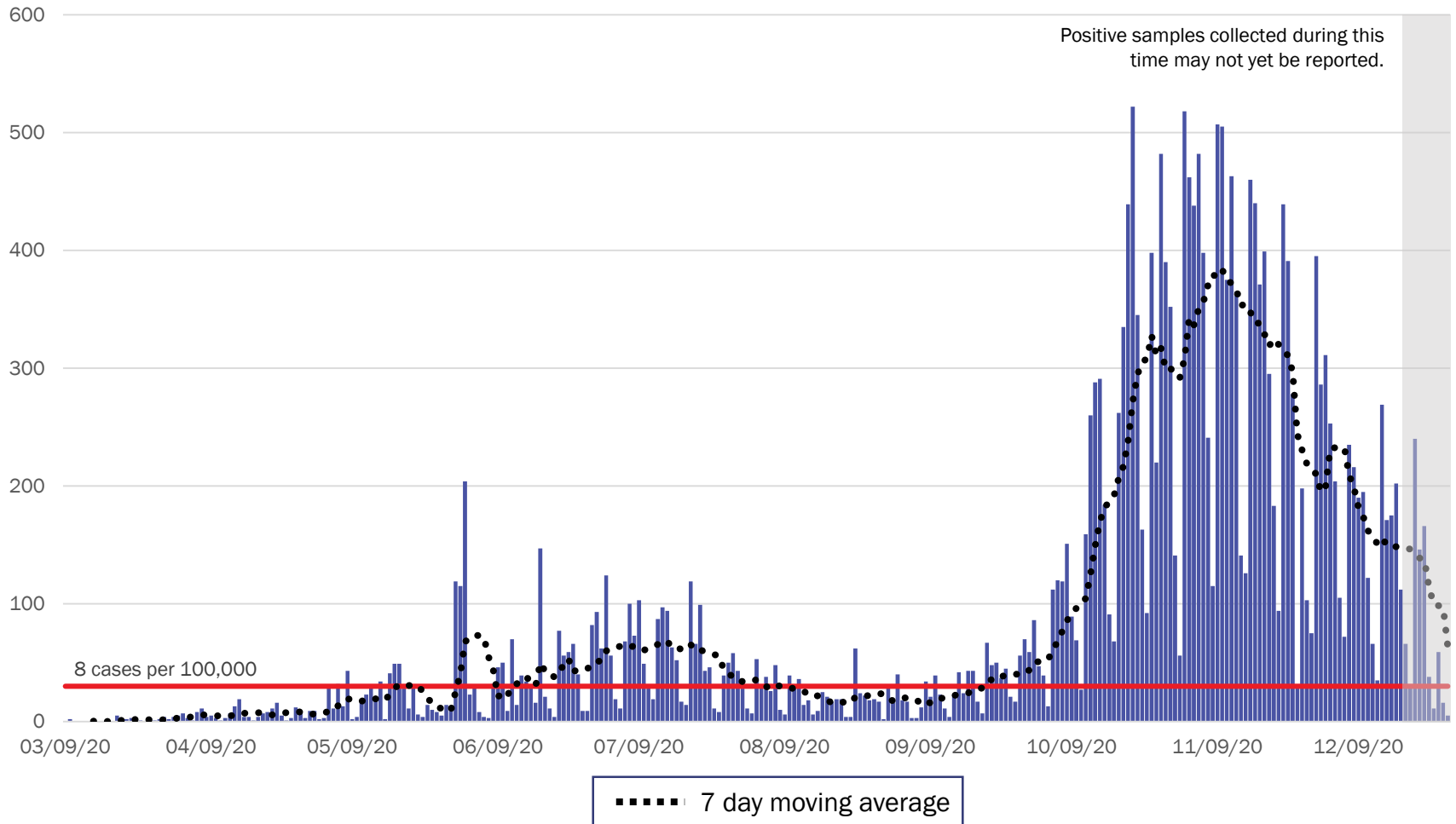


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# Southwest Region Case Count by Collection Date with 7 Day Moving Average December 29, 2020



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, New Mexico Department of Health.

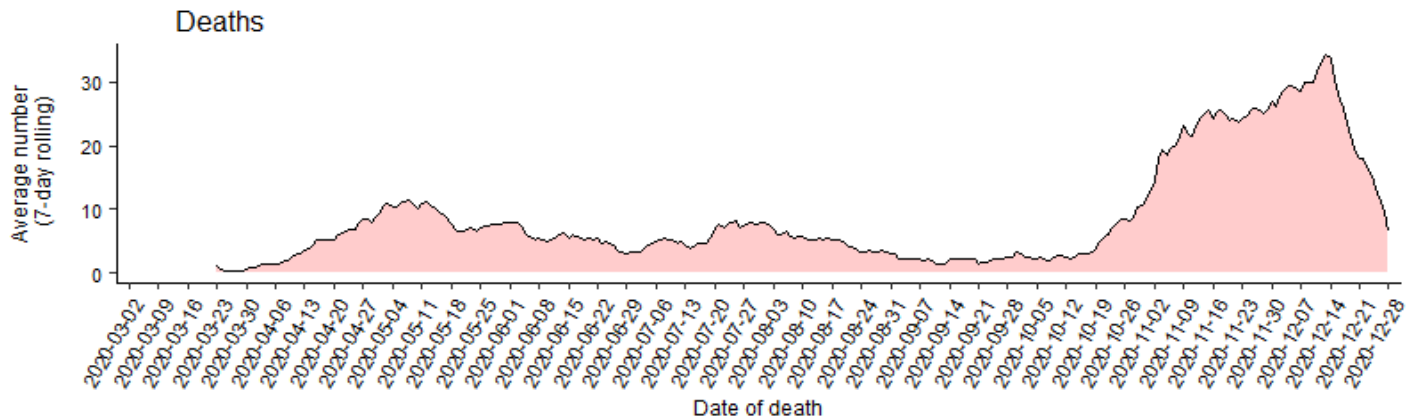
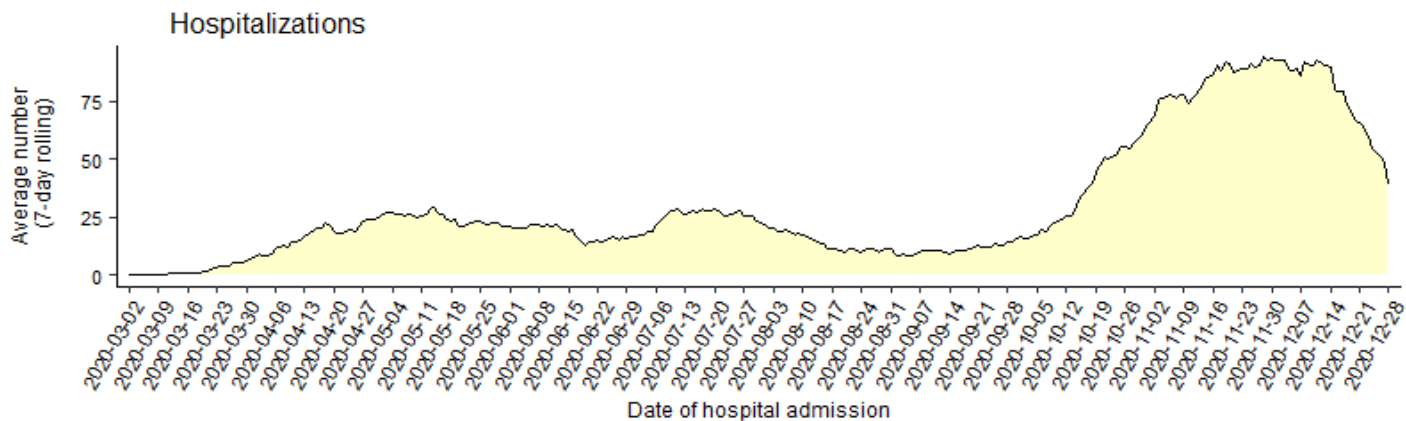
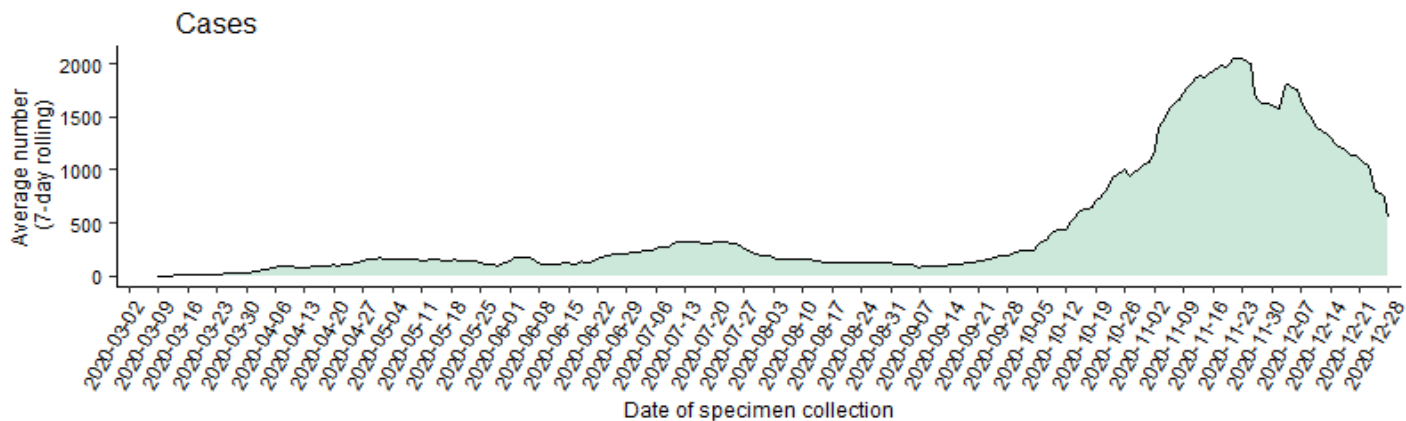


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# Average number (7-day rolling average) of cases, hospitalizations, and deaths over time



Note: Cases, hospitalizations, and deaths may not yet be reported in the last 7-14 days.

As of 12/28/20



# New Mexico Status Updates

- Case count: Statewide, the daily case counts are decreasing,.
- Hospitalizations: Hospitalizations remain high.
- Deaths: Weekly COVID-19 deaths remain high.

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 12.29.2020
R_Effective	Actual Measured Daily Value by key county	R_eff=0.8
Positive Test Multiplier	Calculated by LANL	2.2
Hospitalization and Mortality	Actual rolling value / estimated number of total infected	Medical 0.35% ICU 0.14% Vent Rate 67% of ICU Crude Case Fatality Rate 2.2%
Length of Stay	Actual rolling value / estimated number of total infected	Medical 5 days ICU 14 days ICU on Vent 14 days