COVID-19 in New Mexico: Epidemiologic and Modeling Update

November 17, 2020
New Mexico has the 30th highest number of cases per 100,000 population in the United States.
New Mexico COVID-19 Cases by Date of Specimen Collection – November 17, 2020

Positive samples collected during this time may not yet be reported.

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.17.2020, New Mexico Department of Health.
Statewide R-effective has decreased to 1.1.*

*Delays in reporting may cause underestimation.

As of November 9, 2020

Region | R-effective | 95% Confidence Interval
-------|------------|------------------------
State   | 1.1        | [0.9, 1.3]             
Metro   | 1.1        | [0.8, 1.5]             
Northeast| 1.2      | [0.7, 1.7]             
Northwest| 1.2      | [0.6, 1.8]             
Southeast| 1.1      | [0.7, 1.6]             
Southwest| 1.0      | [0.6, 1.4]             

*Delays in reporting may cause underestimation.
The relative growth rate for the Metro, Northeast and Northwest regions remain well above 0.*

*Delays in reporting may cause underestimation.

Metro Region Case Count by Collection Date with 7 Day Moving Average
November 17, 2020

Positive samples collected during this time may not yet be reported.

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.17.2020, New Mexico Department of Health.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
November 17, 2020

Positive samples collected during this time may not yet be reported.

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.17.2020, New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
November 17, 2020

Positive samples collected during this time may not yet be reported.

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.17.2020, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
November 17, 2020

Positive samples collected during this time may not yet be reported.

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.17.2020, New Mexico Department of Health.
Southwest Region Case Count by Collection Date with 7 Day Moving Average
November 17, 2020

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.17.2020, New Mexico Department of Health.

Positive samples collected during this time may not yet be reported.
Average number (7-day rolling average) of cases, hospitalizations, and deaths over time

**Cases**

- Average number (7-day rolling)
- Date of specimen collection
- As of 11/17/20

**Hospitalizations**

- Average number (7-day rolling)
- Date of hospital admission

**Deaths**

- Average number (7-day rolling)
- Date of death

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

As of 11/17/20
New Mexico Status Updates

• Case count: Statewide, daily case counts continue to increase.

• Hospitalizations: Hospitalizations are rising steeply and have surpassed our previously highest peak in May.

• Deaths: Weekly COVID-19 deaths continue to increase.

For more information, please visit the Epidemiology Reports page on the NMDOH COVID-19 website: https://cv.nmhealth.org/epidemiology-reports/
Supplementary Slides
## Modeling Assumptions

<table>
<thead>
<tr>
<th>Variable</th>
<th>Measured Value</th>
<th>Value as of 11.16.2020</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R_Effective</strong></td>
<td>Actual Measured Daily Value by key county</td>
<td>$R_{eff}=1.1$</td>
</tr>
<tr>
<td><strong>Positive Test Multiplier</strong></td>
<td>Calculated by LANL</td>
<td>2.9</td>
</tr>
<tr>
<td><strong>Hospitalization and Mortality</strong></td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.55% ICU 0.18% Vent Rate 54% of ICU Crude Case Fatality Rate 2.9%</td>
</tr>
<tr>
<td><strong>Length of Stay</strong></td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 5 days ICU 14 days ICU on Vent 14 days</td>
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