COVID-19 in New Mexico: Epidemiologic and Modeling Update

November 10, 2020
New Mexico COVID-19 Cases by Date of Specimen Collection – November 9, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.9.2020, New Mexico Department of Health.
Statewide R-effective has increased to 1.2.*

*Delays in reporting may cause underestimation.

As of November 3, 2020

<table>
<thead>
<tr>
<th>Region</th>
<th>R_effective</th>
<th>95% Confidence Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>1.2</td>
<td>[1.0, 1.4]</td>
</tr>
<tr>
<td>Metro</td>
<td>1.2</td>
<td>[0.9, 1.6]</td>
</tr>
<tr>
<td>Northeast</td>
<td>1.3</td>
<td>[0.7, 2.0]</td>
</tr>
<tr>
<td>Northwest</td>
<td>1.2</td>
<td>[0.5, 1.9]</td>
</tr>
<tr>
<td>Southeast</td>
<td>1.3</td>
<td>[0.9, 1.8]</td>
</tr>
<tr>
<td>Southwest</td>
<td>1.0</td>
<td>[0.7, 1.4]</td>
</tr>
</tbody>
</table>

*Delays in reporting may cause underestimation.*

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

As of November 3, 2020

- **Northwest** R_effective 1.2 ↓
- **Northeast** R_effective 1.3 ↑
- **Metro** R_effective 1.2 ↑
- **Southeast** R_effective 1.3 ↑
- **Southwest** R_effective 1.0 ↓

All regional relative growth rates are above 0.*

*Delays in reporting may cause underestimation.

Metro Region Case Count by Collection Date with 7 Day Moving Average
November 9, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.9.2020, New Mexico Department of Health.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
November 9, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.9.2020, New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
November 9, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.9.2020, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
November 9, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.9.2020, New Mexico Department of Health.
Southwest Region Case Count by Collection Date with 7 Day Moving Average
November 9, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.9.2020, New Mexico Department of Health.
Average number (7-day rolling average) of cases, hospitalizations, and deaths over time

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.8.2020, New Mexico Department of Health.
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](https://cv.nmhealth.org/epidemiology-reports) page on the NMDOH COVID-19 website:
Supplementary Slides
# Modeling Assumptions

<table>
<thead>
<tr>
<th>Variable</th>
<th>Measured Value</th>
<th>Value as of 11.9.2020</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R_Effective</strong></td>
<td>Actual Measured Daily Value by key county</td>
<td>R_{eff}=1.2</td>
</tr>
<tr>
<td><strong>Positive Test Multiplier</strong></td>
<td>Calculated by LANL</td>
<td>3.0</td>
</tr>
<tr>
<td><strong>Hospitalization and Mortality</strong></td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.50%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 0.21%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vent Rate 53% of ICU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crude Case Fatality Rate 3.0%</td>
</tr>
<tr>
<td><strong>Length of Stay</strong></td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 5 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 14 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU on Vent 14 days</td>
</tr>
</tbody>
</table>