COVID-19 in New Mexico: Epidemiologic and Modeling Update

December 22, 2020
New Mexico COVID-19 Cases by Date of Specimen Collection – December 22, 2020

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.22.2020, New Mexico Department of Health.

Positive samples collected during this time may not yet be reported.
Statewide R-effective remains at 0.9.
As of December 15, 2020

<table>
<thead>
<tr>
<th>Region</th>
<th>R-effective</th>
<th>95% Confidence Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>0.9</td>
<td>[0.7, 1.1]</td>
</tr>
<tr>
<td>Metro</td>
<td>0.9</td>
<td>[0.6, 1.1]</td>
</tr>
<tr>
<td>Northeast</td>
<td>0.9</td>
<td>[0.5, 1.4]</td>
</tr>
<tr>
<td>Northwest</td>
<td>1.0</td>
<td>[0.6, 1.4]</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.8</td>
<td>[0.5, 1.3]</td>
</tr>
<tr>
<td>Southwest</td>
<td>0.9</td>
<td>[0.5, 1.4]</td>
</tr>
</tbody>
</table>

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

All five regions have growth rates less than 0.

14-day relative growth rate (%), Regions

↑ Increasing case counts
↓ Decreasing case counts

Epidemic Growth Acceleration

Assumes a 10 day lag in result reporting.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.22.2020, New Mexico Department of Health.

Daily Change in New COVID-19 Cases, by New Mexico Region, as of December 22, 2020

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.22.2020, New Mexico Department of Health.
Positive samples collected during this time may not yet be reported.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
December 22, 2020

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

8 cases per 100,000

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.22.2020, New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
December 22, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.22.2020, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
December 22, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.22.2020, New Mexico Department of Health.
Southwest Region Case Count by Collection Date with 7 Day Moving Average

December 22, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.22.2020, New Mexico Department of Health.
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 12/21/20
New Mexico Status Updates

• Case count: Statewide, the daily case counts may be decreasing, but this should be interpreted cautiously in the face of high percent positivity.

• Hospitalizations: Hospitalizations remain high.

• Deaths: Weekly COVID-19 deaths remain high.

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

<table>
<thead>
<tr>
<th>Variable</th>
<th>Measured Value</th>
<th>Value as of 12.22.2020</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R_Effective</strong></td>
<td>Actual Measured Daily Value by key county</td>
<td>$R_{eff}=0.9$</td>
</tr>
<tr>
<td><strong>Positive Test Multiplier</strong></td>
<td>Calculated by LANL</td>
<td>2.2</td>
</tr>
<tr>
<td><strong>Hospitalization and Mortality</strong></td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.39%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 0.15%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vent Rate 66% of ICU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crude Case Fatality Rate 2.2%</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>