COVID-19 in New Mexico: Epidemiologic and Modeling Update

February 9, 2021
New Mexico COVID-19 Cases by Date of Specimen Collection
February 8, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.8.2021, New Mexico Department of Health.
Statewide R-effective remains at 0.8.
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 2/8/21
As of February 1, 2021

<table>
<thead>
<tr>
<th>Region</th>
<th>R-effective</th>
<th>95% Confidence Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>0.8</td>
<td>[0.6, 1.2]</td>
</tr>
<tr>
<td>Metro</td>
<td>0.9</td>
<td>[0.5, 1.4]</td>
</tr>
<tr>
<td>Northeast</td>
<td>0.8</td>
<td>[0.2, 1.6]</td>
</tr>
<tr>
<td>Northwest</td>
<td>0.8</td>
<td>[0.2, 1.6]</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.8</td>
<td>[0.2, 1.6]</td>
</tr>
<tr>
<td>Southwest</td>
<td>0.9</td>
<td>[0.3, 1.5]</td>
</tr>
</tbody>
</table>

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

Northeast
- R_effective 0.8 =

Metro
- R_effective 0.9 ↓

Southwest
- R_effective 0.9 ↑

Southeast
- R_effective 0.8 =

Courtesy of Presbyterian Healthcare Services – February 8, 2021.
All five regions have growth below 0.
Epidemic Growth Acceleration

Daily Change in New COVID-19 Cases, by New Mexico Region, as of February 08, 2021

*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 2.8.2021, New Mexico Department of Health.
Metro Region Case Count by Collection Date with 7 Day Moving Average
February 8, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.8.2021, New Mexico Department of Health.

NEW MEXICO
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Investing for tomorrow, delivering today.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
February 8, 2021

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.8.2021 New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
February 8, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.8.2021, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
February 8, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.8.2021, New Mexico Department of Health.
Southwest Region Case Count by Collection Date with 7 Day Moving Average
February 8, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.8.2021, New Mexico Department of Health.
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/](https://cv.nmhealth.org/epidemiology-reports/)
Supplementary Slides
# Modeling Assumptions

<table>
<thead>
<tr>
<th>Variable</th>
<th>Measured Value</th>
<th>Value as of 2.8.2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>R Effective</td>
<td>Actual Measured Daily Value by key county</td>
<td>R_eff=0.8</td>
</tr>
<tr>
<td>Positive Test Multiplier</td>
<td>Calculated by LANL</td>
<td>2.1</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.18% ICU 0.09% Vent Rate 61% of ICU Crude Case Fatality Rate 2.1%</td>
</tr>
<tr>
<td>Length of Stay</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 5 days ICU 14 days ICU on Vent 14 days</td>
</tr>
</tbody>
</table>