COVID-19 in New Mexico: Epidemiologic and Modeling Update

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

7 day moving average
8 cases per 100,000

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 3.8.2021, New Mexico Department of Health.
Statewide R-effective has decreased to 0.9.
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 3/8/21
As of March 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>0.9</td>
<td>[0.6, 1.3]</td>
</tr>
<tr>
<td>Metro</td>
<td>1.0</td>
<td>[0.4, 2.2]</td>
</tr>
<tr>
<td>Northeast</td>
<td>0.9</td>
<td>[0.0, 2.1]</td>
</tr>
<tr>
<td>Northwest</td>
<td>0.8</td>
<td>[0.0, 2.2]</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.9</td>
<td>[0.2, 1.7]</td>
</tr>
<tr>
<td>Southwest</td>
<td>0.9</td>
<td>[0.2, 1.8]</td>
</tr>
</tbody>
</table>

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

Northeast
R_effective 0.9 ↓

Metro
R_effective 1.0 =

Southwest
R_effective 0.9 ↓

Southeast
R_effective 0.9 ↓

Courtesy of Presbyterian Healthcare Services – March 8, 2021.
All five regions have growth near or below 0.

14-day relative growth rate (%), Regions

† Increasing case counts
↓ Decreasing case counts

Courtesy of Presbyterian Healthcare Services – March 8, 2021.
**Epidemic Growth Acceleration**

Daily Change in New COVID-19 Cases, by New Mexico Region, as of March 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 3.8.2021, New Mexico Department of Health.
Metro Region Case Count by Collection Date with 7 Day Moving Average
March 8, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 3.8.2021, New Mexico Department of Health.

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Northeast Region Case Count by Collection Date with 7 Day Moving Average
March 8, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 3.8.2021, New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
March 8, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 3.8.2021, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
March 8, 2021

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

*Large spike in cases on February 26, 2021 is the result of a testing event in response to a correctional/detention facility outbreak.
Southwest Region Case Count by Collection Date with 7 Day Moving Average
March 8, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 3.8.2021, New Mexico Department of Health.
New Mexico Status Updates

• **Case count**: Statewide, the decline in daily case counts is slowing.

• **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 3.8.2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>R_Effective</td>
<td>Actual Measured Daily Value by key county Calculated by PHS</td>
<td>R_eff=0.9</td>
</tr>
<tr>
<td>Positive Test Multiplier</td>
<td>Calculated by PHS</td>
<td>2.1</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected Calculated by PHS</td>
<td>Medical 4.2%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 2.3%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vent Rate 60% of ICU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crude Case Fatality Rate 2.1%</td>
</tr>
<tr>
<td>Length of Stay</td>
<td>Assumed values</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>
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