COVID-19 in New Mexico: Epidemiologic and Modeling Update

December 15, 2020
New Mexico has the 24\textsuperscript{th} highest number of cases per 100,000 population in the United States

Source: Cases, Johns Hopkins University Coronavirus Resource Center. Population estimates, National Center for Health Statistics, CDC.

Note: Data updated 12/15/2020 and downloaded from https://coronavirus.jhu.edu/. For interstate comparisons, estimated rates include cases in state and federal detention centers. Rates are not age-adjusted due to a lack of age-specific case counts across states.
New Mexico COVID-19 Cases by Date of Specimen Collection – December 15, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.15.2020, New Mexico Department of Health.
Statewide R-effective has increased slightly to 0.9.
As of December 8, 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, 1.0]</td>
</tr>
<tr>
<td>Metro</td>
<td>0.8</td>
<td>[0.6, 1.1]</td>
</tr>
<tr>
<td>Northeast</td>
<td>1.0</td>
<td>[0.5, 1.4]</td>
</tr>
<tr>
<td>Northwest</td>
<td>0.9</td>
<td>[0.6, 1.3]</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.9</td>
<td>[0.5, 1.3]</td>
</tr>
<tr>
<td>Southwest</td>
<td>0.8</td>
<td>[0.3, 1.3]</td>
</tr>
</tbody>
</table>

Key

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


Northeast
- R_effective 1.0 ↑

Metro
- R_effective 0.8 =

Southwest
- R_effective 0.8 =

Southeast
- R_effective 0.9 ↑

Northwest
- R_effective 0.8 ↓


Investing for tomorrow, delivering today.
Four of the five regions have growth rates less than 0.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.15.2020, New Mexico Department of Health.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
December 15, 2020

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.15.2020, New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
December 15, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.15.2020, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
December 15, 2020

Positive samples collected during this time may not yet be reported.
Southwest Region Case Count by Collection Date with 7 Day Moving Average
December 15, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.15.2020, 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 12/14/20
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 are remain high.

• **Deaths**: Weekly COVID-19 deaths remain high.

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 12.15.2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>R_Effective</td>
<td>Actual Measured Daily Value by key county</td>
<td>R_eff=0.9</td>
</tr>
<tr>
<td>Positive Test Multiplier</td>
<td>Calculated by LANL</td>
<td>2.4</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.45%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 0.18%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vent Rate 65% of ICU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crude Case Fatality Rate 2.4%</td>
</tr>
<tr>
<td>Length of Stay</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>