COVID-19 in New Mexico: Epidemiologic and Modeling Update

December 8, 2020
New Mexico has the 23rd highest number of cases per 100,000 population in the United States

Infection Rate: COVID-19 Cases, Cumulative Year to Date, by U.S. States

data downloaded Tuesday AM, December 8, 2020

Note: Data updated 12/08/2020 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.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.8.2020, New Mexico Department of Health.
Statewide R-effective has decreased to 0.8.
As of December 1, 2020

- **Northeast**
  - R\_effective 0.8 ↓
- **Metro**
  - R\_effective 0.8 ↓
- **Southeast**
  - R\_effective 0.8 ↓
- **Southwest**
  - R\_effective 0.8 ↑

**Key**

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

<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>[0.7, 0.9]</td>
</tr>
<tr>
<td>Metro</td>
<td>0.8</td>
<td>[0.6, 1.0]</td>
</tr>
<tr>
<td>Northeast</td>
<td>0.8</td>
<td>[0.4, 1.3]</td>
</tr>
<tr>
<td>Northwest</td>
<td>0.8</td>
<td>[0.4, 1.2]</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.8</td>
<td>[0.5, 1.2]</td>
</tr>
<tr>
<td>Southwest</td>
<td>0.8</td>
<td>[0.4, 1.2]</td>
</tr>
</tbody>
</table>

The relative growth rates for all regions are below or near 0.

14-day relative growth rate (%), Regions

Key:
- REGION_CENTER
- REGION_NORTHEAST
- REGION_NORTHWEST
- REGION_SOUTHEAST
- REGION_SOUTHWEST

↑ Increasing case counts
↓ Decreasing case counts

Metro Region Case Count by Collection Date with 7 Day Moving Average
December 8, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.8.2020, New Mexico Department of Health.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
December 8, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.8.2020, New Mexico Department of Health.

Investing for tomorrow, delivering today.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
December 8, 2020

Positive samples collected during this time may not yet be reported.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
December 8, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.8.2020, New Mexico Department of Health.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.8.2020, 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 12/7/20
New Mexico Status Updates

• **Case count:** Statewide, the increase in daily case counts may be slowing, but this should be interpreted cautiously in the face of high percent positivity and the recent Thanksgiving holiday.

• **Hospitalizations:** Hospitalizations are continuing to rise.

• **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 12.8.2020</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>2.7</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.52%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 0.21%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vent Rate 59% of ICU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crude Case Fatality Rate 2.7%</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>
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