COVID-19 in New Mexico: Epidemiologic and Modeling Update

December 29, 2020
New Mexico COVID-19 Cases by Date of Specimen Collection – December 29, 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 12.29.2020, New Mexico Department of Health.
Statewide R-effective has decreased to 0.8.
Northeast
\( R_{\text{effective}} \) 0.7 ↓

Metro
\( R_{\text{effective}} \) 0.7 ↑

Southeast
\( R_{\text{effective}} \) 0.9 ↑

Southwest
\( R_{\text{effective}} \) 0.9 =

Northwest
\( R_{\text{effective}} \) 0.8 ↓

**Key**

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

**As of December 22, 2020**

<table>
<thead>
<tr>
<th>Region</th>
<th>( R_{\text{effective}} )</th>
<th>95% Confidence Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>0.8</td>
<td>[0.6, 1.0]</td>
</tr>
<tr>
<td>Metro</td>
<td>0.7</td>
<td>[0.4, 1.0]</td>
</tr>
<tr>
<td>Northeast</td>
<td>0.7</td>
<td>[0.1, 1.2]</td>
</tr>
<tr>
<td>Northwest</td>
<td>0.8</td>
<td>[0.4, 1.2]</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.9</td>
<td>[0.4, 1.3]</td>
</tr>
<tr>
<td>Southwest</td>
<td>0.9</td>
<td>[0.4, 1.5]</td>
</tr>
</tbody>
</table>

All five regions have growth rates less than 0.

14-day relative growth rate (%), Regions

↑ Increasing case counts
↓ Decreasing case counts

Epidemic Growth Acceleration

Daily Change in New COVID-19 Cases, by New Mexico Region, as of December 29, 2020

Assumes a 10 day lag in result reporting.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, New Mexico Department of Health.
Metro Region Case Count by Collection Date with 7 Day Moving Average
December 29, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, New Mexico Department of Health.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
December 29, 2020

8 cases per 100,000

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
December 29, 2020

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
December 29, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, New Mexico Department of Health.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 12.29.2020, 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 12/28/20
New Mexico Status Updates

- **Case count:** Statewide, the daily case counts are decreasing.

- **Hospitalizations:** Hospitalizations 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 12.29.2020</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>2.2</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.35%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 0.14%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vent Rate 67% of ICU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crude Case Fatality Rate 2.2%</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>
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