COVID-19 in New Mexico: Epidemiologic and Modeling Update

January 11, 2021
New Mexico COVID-19 Cases by Date of Specimen Collection
January 11, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 1.11.2021, New Mexico Department of Health.
Statewide R-effective has increased to 1.1.
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 1/11/21
As of January 5, 2021

<table>
<thead>
<tr>
<th>Region</th>
<th>R-effective</th>
<th>95% Confidence Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>1.1</td>
<td>[1.0, 1.3]</td>
</tr>
<tr>
<td>Metro</td>
<td>1.1</td>
<td>[0.8, 1.4]</td>
</tr>
<tr>
<td>Northeast</td>
<td>1.3</td>
<td>[0.8, 1.9]</td>
</tr>
<tr>
<td>Northwest</td>
<td>1.1</td>
<td>[0.7, 1.5]</td>
</tr>
<tr>
<td>Southeast</td>
<td>1.1</td>
<td>[0.7, 1.5]</td>
</tr>
<tr>
<td>Southwest</td>
<td>1.2</td>
<td>[0.8, 1.6]</td>
</tr>
</tbody>
</table>

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

Southeast 
R_effective 1.1 ↑

Southwest 
R_effective 1.2 ↑

Northeast 
R_effective 1.3 ↑

Metro 
R_effective 1.1 ↑


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All five regions have growth above 0.

Decreasing case counts

Increasing case counts

Epidemic Growth Acceleration

Daily Change in New COVID-19 Cases, by New Mexico Region, as of January 11, 2021

*Positive specimens collected during the most recent 10 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 1.11.2021, New Mexico Department of Health.
Metro Region Case Count by Collection Date with 7 Day Moving Average
January 11, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 1.11.2021, New Mexico Department of Health.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
January 11, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 1.11.2021 New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
January 11, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 1.11.2021, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average

January 11, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 1.11.2021, New Mexico Department of Health.
Southwest Region Case Count by Collection Date with 7 Day Moving Average
January 11, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 1.11.2021, New Mexico Department of Health.
**New Mexico Status Updates**

- **Case count**: Statewide, daily case counts may be starting to increase again.

- **Hospitalizations**: Hospitalizations remain high.

- **Deaths**: Weekly COVID-19 deaths remain high, but appear to be 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 1.11.2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>R_Effective</td>
<td>Actual Measured Daily Value by key county</td>
<td>R_eff=1.1</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 0.32%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 0.12%</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 2.1%</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>