COVID-19 in New Mexico: Epidemiologic and Modeling Update

February 2, 2021
New Mexico COVID-19 Cases by Date of Specimen Collection
February 1, 2021

7 day moving average

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.1.2021, New Mexico Department of Health.
Statewide R-effective has increased to 0.8.
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 2/1/21
As of January 25, 2021:

**Key**
- Low Level Endemic \(<1.0\)
- Approaching Low Level Endemic \(1.0\)
- Requiring further mitigation \(>1.0\)

### Regions

<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>[0.6, 1.1]</td>
</tr>
<tr>
<td>Metro</td>
<td>1.0</td>
<td>[0.6, 1.3]</td>
</tr>
<tr>
<td>Northeast</td>
<td>0.8</td>
<td>[0.2, 1.5]</td>
</tr>
<tr>
<td>Northwest</td>
<td>0.8</td>
<td>[0.3, 1.4]</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.8</td>
<td>[0.3, 1.4]</td>
</tr>
<tr>
<td>Southwest</td>
<td>0.7</td>
<td>[0.3, 1.3]</td>
</tr>
</tbody>
</table>

**New Mexico Department of Health**

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Four of the five regions have growth below 0. See Summary for a data note regarding the Metro region.
Epidemic Growth Acceleration

Daily Change in New COVID-19 Cases, by New Mexico Region, as of February 01, 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 2.1.2021, New Mexico Department of Health.
Positive samples collected during this time may not yet be reported.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.1.2021 New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
February 1, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.1.2021, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
February 1, 2021

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.1.2021, New Mexico Department of Health.

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 2.1.2021, New Mexico Department of Health.
Southwest Region Case Count by Collection Date with 7 Day Moving Average
February 1, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.1.2021, New Mexico Department of Health.
Data Note: Due to a reporting error, a backlog of results from a single facility was reported on Friday January 29, 2021. This has resulted in an overestimation of this week’s Metro region R-effective and 14-day relative growth rate, which are calculated based on report date. The growth acceleration and epidemic curve account for this artifact by attributing results to the specimen collection date rather than the reporting date.

• **Case count:** Statewide, daily case counts are declining.

• **Hospitalizations:** Hospitalizations are high, but are declining.

• **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 2.1.2021</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>2.1</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.22%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 0.09%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vent Rate 62% 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>