COVID-19 in New Mexico: Epidemiologic and Modeling Update

February 23, 2021
New Mexico COVID-19 Cases by Date of Specimen Collection
February 22, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021, New Mexico Department of Health.
Statewide R-effective has increased to 0.9.
Average number (7-day rolling average) of cases, hospitalizations, and deaths over time

Cases

Average number (7-day rolling)

Date of specimen collection

Hospitalizations

Average number (7-day rolling)

Date of hospital admission

Deaths

Average number (7-day rolling)

Date of death

Note: Cases, hospitalizations, and deaths may not yet be reported in 7 or more days.

As of 2/22/21
As of February 16, 2021:

- **Northeast**: $R_{\text{effective}} = 0.9 \uparrow$
- **Metro**: $R_{\text{effective}} = 0.8 =$
- **Southeast**: $R_{\text{effective}} = 0.9 \uparrow$
- **Southwest**: $R_{\text{effective}} = 1.0 \uparrow$
- **Northwest**: $R_{\text{effective}} = 1.0 \uparrow$

### Key

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

### Table

<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>[0.6, 1.2]</td>
</tr>
<tr>
<td>Metro</td>
<td>0.8</td>
<td>[0.3, 1.4]</td>
</tr>
<tr>
<td>Northeast</td>
<td>0.9</td>
<td>[0.0, 2.0]</td>
</tr>
<tr>
<td>Northwest</td>
<td>1.0</td>
<td>[0.0, 2.0]</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.9</td>
<td>[0.0, 2.0]</td>
</tr>
<tr>
<td>Southwest</td>
<td>1.0</td>
<td>[0.4, 1.7]</td>
</tr>
</tbody>
</table>

All five regions have growth below 0.

Epidemic Growth Acceleration

Daily Change in New COVID-19 Cases, by New Mexico Region, as of February 22, 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 2.22.2021, New Mexico Department of Health.
Metro Region Case Count by Collection Date with 7 Day Moving Average
February 22, 2021

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021, New Mexico Department of Health.

Positive samples collected during this time may not yet be reported.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
February 22, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021 New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
February 22, 2021

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021, New Mexico Department of Health.

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

7 day moving average
8 cases per 100,000

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
February 22, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021, New Mexico Department of Health.
Southwest Region Case Count by Collection Date with 7 Day Moving Average
February 22, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 2.22.2021, New Mexico Department of Health.
New Mexico Status Updates

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

• **Hospitalizations**: Hospitalizations are declining.

• **Deaths**: Weekly COVID-19 deaths are 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 2.22.2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>R_Effective</td>
<td>Actual Measured Daily Value by key county Calculated by PHS</td>
<td>R_eff=0.9</td>
</tr>
<tr>
<td>Positive Test Multiplier</td>
<td>Calculated by PHS</td>
<td>2.1</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected Calculated by PHS</td>
<td>Medical 0.13%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 0.07%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vent Rate 55% 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>Assumed values</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>