COVID-19 in New Mexico: Epidemiologic and Modeling Update

May 4, 2021
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 5.3.2021, New Mexico Department of Health.

Positive samples collected during this time may not yet be reported.
Statewide R-effective remains at 1.1.

**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>1.1</td>
<td>[0.6, 1.5]</td>
</tr>
<tr>
<td>Metro</td>
<td>1.1</td>
<td>[0.5, 1.7]</td>
</tr>
<tr>
<td>Northeast</td>
<td>0.9</td>
<td>[0.0, 2.5]</td>
</tr>
<tr>
<td>Northwest</td>
<td>1.1</td>
<td>[0.3, 2.0]</td>
</tr>
<tr>
<td>Southeast</td>
<td>1.1</td>
<td>[0.0, 2.5]</td>
</tr>
<tr>
<td>Southwest</td>
<td>1.0</td>
<td>[0.0, 2.1]</td>
</tr>
</tbody>
</table>

As of April 19, 2021

**Investing for tomorrow, delivering today.**
Four regions have growth rates at or above 0.

![Graph showing 14-day relative growth rate (%) for different regions.](image)

- ↑ Increasing case counts
- ↓ Decreasing case counts

Epidemic Growth Acceleration

Daily Change in New COVID-19 Cases, by New Mexico Region, as of May 03, 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 5.3.2021, New Mexico Department of Health.
Metro Region Case Count by Collection Date with 7 Day Moving Average
May 3, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 5.3.2021, New Mexico Department of Health.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
May 3, 2021
Northwest Region Case Count by Collection Date with 7 Day Moving Average
May 3, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 5.3.2021, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
May 3, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 5.3.2021, New Mexico Department of Health.
Southwest Region Case Count by Collection Date with 7 Day Moving Average
May 3, 2021

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 5.3.2021, New Mexico Department of Health.

Investing for tomorrow, delivering today.
New Mexico Status Updates

- **Case count**: Statewide, daily case counts have reached a plateau.

- **Hospitalizations**: COVID-19 hospitalizations may have reached a plateau.

- **Deaths**: COVID-19 deaths continue to slowly decline.

For more information, please visit the [Epidemiology Reports](https://cv.nmhealth.org/epidemiology-reports/) page on the NMDOH COVID-19 website:
# Modeling Assumptions

<table>
<thead>
<tr>
<th>Variable</th>
<th>Measured Value</th>
<th>Value as of 5.3.2021</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R_Effective</strong></td>
<td>Actual Measured Daily Value by key county Calculated by PHS</td>
<td><strong>R_eff=1.1</strong></td>
</tr>
<tr>
<td><strong>Positive Test Multiplier</strong></td>
<td>Calculated by PHS</td>
<td><strong>2.1</strong></td>
</tr>
<tr>
<td><strong>Hospitalization and Mortality</strong></td>
<td>Actual rolling value / estimated number of total infected Calculated by PHS</td>
<td><strong>Medical 5.36%</strong>&lt;br&gt;<strong>ICU 2.79%</strong>&lt;br&gt;<strong>Vent Rate 34% of ICU</strong>&lt;br&gt;<strong>Crude Case Fatality Rate 2.1%</strong></td>
</tr>
<tr>
<td><strong>Length of Stay</strong></td>
<td>Assumed values</td>
<td><strong>Medical 5 days</strong>&lt;br&gt;<strong>ICU 14 days</strong>&lt;br&gt;<strong>ICU on Vent 14 days</strong></td>
</tr>
</tbody>
</table>