COVID-19 in New Mexico: Epidemiologic and Modeling Update

October 6, 2020
New Mexico has the 37th highest number of cases per 100,000 population in the United States.

Source: Cases, Johns Hopkins University Coronavirus Resource Center. Population estimates, National Center for Health Statistics, CDC.
New Mexico COVID-19 Cases by Date of Specimen Collection – October 6, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 10.6.2020, New Mexico Department of Health.
Statewide R-effective has decreased to 1.2.
As of September 28, 2020

<table>
<thead>
<tr>
<th>Region</th>
<th>R-effective</th>
<th>95% Confidence Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>1.2</td>
<td>[0.7, 1.6]</td>
</tr>
<tr>
<td>Metro</td>
<td>1.3</td>
<td>[0.6, 2.1]</td>
</tr>
<tr>
<td>Northeast</td>
<td>1.1</td>
<td>[0.0, 3.4]</td>
</tr>
<tr>
<td>Northwest</td>
<td>1.0</td>
<td>[0.0, 2.4]</td>
</tr>
<tr>
<td>Southeast</td>
<td>1.1</td>
<td>[0.3, 1.9]</td>
</tr>
<tr>
<td>Southwest</td>
<td>1.3</td>
<td>[0.4, 2.2]</td>
</tr>
</tbody>
</table>

Key

- Low Level Endemic <1.0
- Approaching Low Level Endemic 1.0-1.05
- Requiring further mitigation >1.05

Southwest and Metro regions continue to have increasing daily case counts.

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 10.6.2020, New Mexico Department of Health.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
October 6, 2020

Positive samples collected during this time may not yet be reported.
“Detention Centers” refer to federal and New Mexico Corrections Department facilities.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 10.6.2020, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
October 6, 2020

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

"Detention Centers" refer to federal and New Mexico Corrections Department facilities.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 10.6.2020, New Mexico Department of Health.
“Detention Centers” refer to federal and New Mexico Corrections Department facilities.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 10.6.2020, New Mexico Department of Health.
Hospitalizations are beginning to rise.

As of October 5, 2020
New Mexico Status Updates

• **Case count**: Statewide, daily case counts continue to increase.

• **Hospitalizations**: After a period of plateau, hospitalizations have started to rise.

• **Deaths**: Deaths continue to decline after a spike during the week of September 14-September 20.

• **Contact tracing**: The median time to quarantine for contacts identified last week was approximately 1.3 days.

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 10.6.2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>R_Effective</td>
<td>Actual Measured Daily Value by key county</td>
<td>R_eff=1.2</td>
</tr>
<tr>
<td>Positive Test Multiplier</td>
<td>Calculated by LANL</td>
<td>3.3</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.14%&lt;br&gt;ICU 0.09%&lt;br&gt;Vent Rate 39% of ICU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crude Case Fatality Rate 3.3%</td>
</tr>
<tr>
<td>Length of Stay</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 5 days&lt;br&gt;ICU 14 days&lt;br&gt;ICU on Vent 14 days</td>
</tr>
</tbody>
</table>