COVID-19 in New Mexico: Epidemiologic and Modeling Update

November 3, 2020
New Mexico COVID-19 Cases by Date of Specimen Collection
November 3, 2020

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.3.2020, New Mexico Department of Health.

Positive samples collected during this time may not yet be reported.
Statewide R-effective has decreased to 1.1.*

*Delays in reporting may cause underestimation.

As of October 26, 2020

<table>
<thead>
<tr>
<th>Region</th>
<th>R-effective</th>
<th>95% Confidence Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>1.1</td>
<td>[0.9, 1.3]</td>
</tr>
<tr>
<td>Metro</td>
<td>1.1</td>
<td>[0.7, 1.5]</td>
</tr>
<tr>
<td>Northeast</td>
<td>1.2</td>
<td>[0.3, 2.0]</td>
</tr>
<tr>
<td>Northwest</td>
<td>1.2</td>
<td>[0.5, 2.0]</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.9</td>
<td>[0.3, 1.5]</td>
</tr>
<tr>
<td>Southwest</td>
<td>1.1</td>
<td>[0.7, 1.6]</td>
</tr>
</tbody>
</table>

*Delays in reporting may cause underestimation.*
The relative growth rate has decreased to below 0.*

*Delays in reporting may cause underestimation.

Metro Region Case Count by Collection Date with 7 Day Moving Average
November 3, 2020

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.3.2020, 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
November 3, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.3.2020, New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
November 3, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.3.2020, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
November 3, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.3.2020, New Mexico Department of Health.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 11.3.2020, New Mexico Department of Health.
Average number* (7-day rolling) of cases, hospitalizations, and deaths over time

November 2, 2020

*Cases, hospitalizations, and deaths last week may not yet be reported and are not shown here.
New Mexico Status Updates

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

• **Hospitalizations:** Hospitalizations are rising steeply and have surpassed our previously highest peak in May.

• **Deaths:** Weekly COVID-19 deaths continue to increase.

• **Contact tracing:** The median time to quarantine for contacts identified last week was approximately 3.8 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 11.3.2020</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>3.2</td>
</tr>
</tbody>
</table>
| Hospitalization and Mortality | Actual rolling value / estimated number of total infected                      | Medical 0.47%  
   ICU 0.22%  
   Vent Rate 45% of ICU  
   Crude Case Fatality Rate 3.1% |
| Length of Stay            | Actual rolling value / estimated number of total infected                      | Medical 5 days  
   ICU 14 days  
   ICU on Vent 14 days  |