COVID-19 in New Mexico: Epidemiologic and Modeling Update

October 27, 2020
New Mexico has the 37th highest number of cases per 100,000 population in the United States.

Infection Rate: COVID-19 Cases, Cumulative Year to Date, by U.S. States
data downloaded Tuesday AM, October 27, 2020

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 26, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 10.26.2020, New Mexico Department of Health.
Statewide R-effective has decreased to 1.2.
As of October 19, 2020

Region | R-effective | 95% Confidence Interval
--- | --- | ---
State | 1.2 | [1.0, 1.5]
Metro | 1.1 | [0.7, 1.7]
Northeast | 1.3 | [0.6, 2.3]
Northwest | 1.3 | [0.4, 2.3]
Southeast | 1.2 | [0.6, 1.7]
Southwest | 1.3 | [0.9, 1.8]
All regions have increasing daily case counts.

14-day relative growth rate (%), Regions

↑ Increasing case counts
↓ Decreasing case counts

Metro Region Case Count by Collection Date with 7 Day Moving Average
October 26, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 10.26.2020, New Mexico Department of Health.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
October 26, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 10.26.2020, New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
October 26, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 10.26.2020, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
October 26, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 10.26.2020, New Mexico Department of Health.
Southwest Region Case Count by Collection Date with 7 Day Moving Average
October 26, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 10.26.2020, New Mexico Department of Health.
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 have started to increase.

• **Contact tracing**: The median time to quarantine for contacts identified last week was approximately 3.1 days.

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 10.26.2020</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>3.2</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.34% ICU 0.18% Vent Rate 48% of ICU Crude Case Fatality Rate 3.2%</td>
</tr>
<tr>
<td>Length of Stay</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 5 days ICU 14 days ICU on Vent 14 days</td>
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