COVID-19 in New Mexico: Epidemiologic and Modeling Update

September 22, 2020
New Mexico has the 37th highest number of cases per 100,000 population in the United States

Infection Rate: COVID-19 Cases, Year to Date, by U.S. States
data downloaded Tuesday AM, September 22, 2020

Source: Cases, Johns Hopkins University Coronavirus Resource Center. Population estimates, National Center for Health Statistics, CDC.
COVID-19 prevalence per 100,000 population


*Excludes cases among inmates in state and federal corrections and detention centers
New Mexico COVID-19 Cases by Date of Specimen Collection – September 22, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 9.22.2020, New Mexico Department of Health.
Statewide R-effective has increased to 1.1.
As of September 15, 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>[0.6, 1.8]</td>
</tr>
<tr>
<td>Metro</td>
<td>1.2</td>
<td>[0.0, 2.5]</td>
</tr>
<tr>
<td>Northeast</td>
<td>1.1</td>
<td>[0.0, 3.7]</td>
</tr>
<tr>
<td>Northwest</td>
<td>1.0</td>
<td>[0.0, 4.5]</td>
</tr>
<tr>
<td>Southeast</td>
<td>1.1</td>
<td>[0.2, 2.2]</td>
</tr>
<tr>
<td>Southwest</td>
<td>1.1</td>
<td>[0.0, 2.8]</td>
</tr>
</tbody>
</table>

Key

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

All regions have increasing case counts relative to the past 14 day period.

Metro Region Case Count by Collection Date with 7 Day Moving Average
September 22, 2020

Positive samples collected during this time may not yet be reported.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
September 22, 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 9.22.2020, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
September 22, 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 9.22.2020, 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 9.22.2020, New Mexico Department of Health.
For cases reporting activities, travel and visits to restaurants and breweries may be beginning to decrease.

Note: Cases in correctional facilities and residents of long-term care facilities were excluded. Percentages are out of cases who were contacted and asked about their exposures.

As of September 20, 2020
Hospitalizations have plateaued since mid-August.
Although the 35-64 year old age group makes up 52% of hospitalized cases (data not shown), the 65 and over age group has the highest hospitalizations per 100,000 population.
Hispanic or Latinos continue to make the highest percentage of hospital admissions each week, followed by Whites and American Indian or Alaska Natives.
As of September 20, 2020

COVID-19 Deaths by Week of Death, New Mexico

Deaths may not yet be reported.

Number of Deaths

As of September 20, 2020
Minimal changes in case fatality rates across regions

Note: Age-adjusted case fatality rates are adjusted to the current distribution of U.S. COVID-19 cases on 8/2. https://www.cdc.gov/covid-data-tracker/index.html#demographics
Source: Bureau of Vital Records and Health Statistics and Infectious Disease Epidemiology Bureau, Epidemiology and Response Division, reporting through 9.20.2020, New Mexico Department of Health.
New Mexico Status Updates

• **Case count:** Statewide, daily case counts may be starting to increase again.

• **Hospitalizations:** After a period of recent decline in July, hospitalizations have remained steady.

• **Deaths:** Deaths have been declining, but may be beginning to rise.

• **Contact tracing:** The median time to quarantine for contacts identified last week was 1.04 days.
Supplementary Slides
## Modeling Assumptions

<table>
<thead>
<tr>
<th>Variable</th>
<th>Measured Value</th>
<th>Value as of 9.21.2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>\textbf{R\textunderscore Effective}</td>
<td>Actual Measured Daily Value by key county</td>
<td>\textit{R\textunderscore eff}=1.1</td>
</tr>
<tr>
<td>\textbf{Positive Test Multiplier}</td>
<td>Calculated by LANL</td>
<td>3.4</td>
</tr>
<tr>
<td>\textbf{Hospitalization and Mortality}</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.08%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 0.07%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vent Rate 49% of ICU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crude Case Fatality Rate 3.4%</td>
</tr>
<tr>
<td>\textbf{Length of Stay}</td>
<td>Actual rolling value / estimated number of total infected</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>
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