COVID-19 in New Mexico: Epidemiologic and Modeling Update

September 15, 2020
New Mexico has the 37th highest number of cases per 100,000 population in the United States.
COVID-19 prevalence per 100,000 population

Year-to-Date

- Northwest: 3490.4
- Northeast: 546.9
- Metro: 867.6
- Southeast: 1377.2
- Southwest: 1059.0
- New Mexico: 1210.1

New cases (Last 7 days) – September 7-13

- Northwest: 3.2
- Northeast: 2.5
- Metro: 2.2
- Southeast: 14.0
- Southwest: 4.5
- New Mexico: 4.4

*Excludes cases among inmates in state and federal corrections and detention centers

Statewide R-effective has remained at 0.9.
As of September 8, 2020

<table>
<thead>
<tr>
<th>Region</th>
<th>R-effective</th>
<th>95% Confidence Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>0.9</td>
<td>[0.4, 1.7]</td>
</tr>
<tr>
<td>Metro</td>
<td>0.8</td>
<td>[0.0, 2.5]</td>
</tr>
<tr>
<td>Northeast</td>
<td>1.0</td>
<td>[0.0, 4.0]</td>
</tr>
<tr>
<td>Northwest</td>
<td>0.7</td>
<td>[0.0, 2.3]</td>
</tr>
<tr>
<td>Southeast</td>
<td>1.0</td>
<td>[0.0, 2.0]</td>
</tr>
<tr>
<td>Southwest</td>
<td>0.9</td>
<td>[0.0, 2.6]</td>
</tr>
</tbody>
</table>
All regions have decreasing case counts relative to the past 14 day period.
Metro Region Case Count by Collection Date with 7 Day Moving Average
September 15, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 9.15.2020, New Mexico Department of Health.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
September 15, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 9.15.2020, 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 9.15.2020, New Mexico Department of Health.
Southeast Region Case Count by Collection Date with 7 Day Moving Average
September 15, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 9.15.2020, New Mexico Department of Health.
Southwest Region Case Count by Collection Date with 7 Day Moving Average
September 15, 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 9.15.2020, New Mexico Department of Health.
The highest percentage of cases has occurred in patients 35-64 years old followed by 18-34 years old in all five regions.

As of September 15, 2020
Except for the Northwest region, Hispanic or Latino individuals make up the largest proportion of cases.

As of September 15, 2020
For cases reporting activities, travel and visits to restaurants and breweries have begun to increase.

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.
Since about mid-August, the number of hospitalizations has been below 100 cases.
The highest percentage of hospitalizations has occurred in patients 35-64 years old followed by 65 years and over across all regions.
Except for the NW Region, Hispanic or Latinos make up the highest percentage of hospitalizations
The SE Region made up the highest percentage of hospital admissions last week. The SW region hospital admissions may be beginning to increase.

As of September 13, 2020, hospitalizations may not yet be reported.
COVID-19 Deaths by Week of Death, New Mexico

As of September 13, 2020

Deaths may not yet be reported.
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 9.13.2020, New Mexico Department of Health.
New Mexico Status Updates

- **Case count**: Statewide, daily case counts continue to decline.

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

- **Deaths**: Deaths are declining.

- **Contact tracing**: The median time to quarantine for contacts identified last week was 1.2 days.
Supplementary Slides
## Modeling Assumptions

<table>
<thead>
<tr>
<th>Variable</th>
<th>Measured Value</th>
<th>Value as of 9.15.2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>R_Effective</td>
<td>Actual Measured Daily Value by key county</td>
<td>R_eff=0.9</td>
</tr>
<tr>
<td>Positive Test Multiplier</td>
<td>Calculated by LANL</td>
<td>3.4</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.1%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 0.07%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vent Rate 54% of ICU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crude Case Fatality Rate 3.4%</td>
</tr>
<tr>
<td>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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