COVID-19 in New Mexico: Epidemiologic and Modeling Update
August 18, 2020
New Mexico has the 36th highest prevalence in the United States
COVID-19 prevalence per 100,000 population


*Excludes cases in state and federal corrections and detention centers.
Statewide R-effective has increased slightly to 0.8.
New Mexico COVID-19 Cases by Date of Specimen Collection – August 17, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.17.2020, New Mexico Department of Health.
As of August 10, 2020

Region | R-effective | 95% Confidence Interval
---|---|---
State | 0.8 | [0.4, 1.2]
Metro | 0.7 | [0.0, 1.9]
Northeast | 0.9 | [0.0, 3.2]
Northwest | 0.5 | [0.0, 1.8]
Southeast | 1.0 | [0.2, 1.9]
Southwest | 0.7 | [0.0, 1.9]
The Northwest and Southeast have relative growth rates equal to 0.

14-day relative growth rate (%), Regions

Key:
- REGION_CENTER
- REGION_NORTHWEST
- REGION_NORTHEAST
- REGION_SOUTHEAST
- REGION_SOUTHWEST

↑ Increasing counts
↓ Decreasing case counts

Courtesy of Presbyterian Healthcare Services – August 17, 2020.
Metro Region Case Count by Collection Date with 7 Day Moving Average
August 17, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.17.2020, New Mexico Department of Health.
Northeast Region Case Count by Collection Date with 7 Day Moving Average
August 17, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.17.2020, New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average
August 17, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.17.2020, New Mexico Department of Health.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.17.2020, New Mexico Department of Health.
Southwest Region Case Count by Collection Date with 7 Day Moving Average
August 17, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.17.2020, New Mexico Department of Health.
Hospitalizations have been steadily declining since mid-July.
The 45-59 and 60+ year old age groups make up the highest percentages of new hospital admissions each week.

As of August 13, 2020
New hospital admissions of patients who are Hispanic or Latino, or White are continuing to increase each week. Admissions of AI/AN patients have been steadily decreasing.
Spike in deaths from 7/19 to 8/1, but may be decreasing.

COVID-19 Deaths by Week of Death, New Mexico

Number of Deaths

Reporting through 8/16/2020
The trend of increasing mortality with age remains unchanged.

COVID-19 Mortality Rate by Age Group, New Mexico

Deaths per 100,000 population

0.0 1.0 8.4 13.5 24.4 41.8 62.3 447.9

<18 18-24 25-34 35-44 45-54 55-64 65-74 75-84 85+

Reporting through 8/16/2020
Minimal changes in case fatality rates by region since last week.

COVID-19 Age-Adjusted* Case Fatality Rate by Region, New Mexico

<table>
<thead>
<tr>
<th>Region</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>NW</td>
<td>6.2%</td>
</tr>
<tr>
<td>NE</td>
<td>1.9%</td>
</tr>
<tr>
<td>Metro</td>
<td>3.4%</td>
</tr>
<tr>
<td>SE</td>
<td>1.0%</td>
</tr>
<tr>
<td>SW</td>
<td>2.7%</td>
</tr>
<tr>
<td>NM</td>
<td>4.1%</td>
</tr>
<tr>
<td>U.S.</td>
<td>3.1%</td>
</tr>
</tbody>
</table>

Reporting through 8/16/2020; *Adjusted to U.S. COVID-19 cases.

Note: Age-adjusted case fatality rates are adjusted to the current distribution of U.S. COVID-19 cases on 8/9. https://www.cdc.gov/covid-data-tracker/index.html#demographics

CDC age group categories differ from those previously reported, so the age-adjusted rates for NM are not comparable to previously produced rates.

Source: Bureau of Vital Records and Health Statistics and Infectious Disease Epidemiology Bureau, Epidemiology and Response Division, reporting through 8.9.2020, New Mexico Department of Health.
New Mexico Status Updates

• **Case count:** Statewide, the increase in daily case counts continues to decline.

• **Hospitalizations:** After a period of increase in July, hospitalizations are decreasing.

• **Deaths:** After a two-week spike recently, deaths may be continuing to decrease.

• **Social distancing:** Cell phone data suggests the mobility of New Mexico residents has been stable, but this varies by region.

• **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 8.17.2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>R_Effective</td>
<td>Actual Measured Daily Value by key county</td>
<td>R_eff=0.8</td>
</tr>
<tr>
<td>Positive Test Multiplier</td>
<td>Calculated by LANL</td>
<td>3.8</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.15% ICU 0.12% Vent Rate 53% of ICU Crude Case Fatality Rate 3.8%</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>
</tr>
</tbody>
</table>