COVID-19 in New Mexico: Epidemiologic and Modeling Update
August 25, 2020
New Mexico has the 36th highest number of cases per 100,000 population in the United States.
COVID-19 prevalence per 100,000 population

New cases (Last 7 days) – August 16

- Northwest: 9.3
- Northeast: 3.6
- Metro: 4.3
- Southwest: 7.6
- New Mexico: 7.4

New cases (Last 7 days) – August 23

- Northwest: 5.7
- Northeast: 5.7
- Metro: 5.2
- Southwest: 15.7
- New Mexico: 6.6

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.24.2020, New Mexico Department of Health.
Statewide R-effective has increased to 1.0
As of August 17, 2020

<table>
<thead>
<tr>
<th>Region</th>
<th>R-effective</th>
<th>95% Confidence Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>1.0</td>
<td>[0.5, 1.6]</td>
</tr>
<tr>
<td>Metro</td>
<td>1.2</td>
<td>[0.2, 2.3]</td>
</tr>
<tr>
<td>Northeast</td>
<td>1.3</td>
<td>[0.0, 3.2]</td>
</tr>
<tr>
<td>Northwest</td>
<td>1.1</td>
<td>[0.0, 3.0]</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.9</td>
<td>[0.0, 1.8]</td>
</tr>
<tr>
<td>Southwest</td>
<td>0.6</td>
<td>[0.0, 2.5]</td>
</tr>
</tbody>
</table>

Key

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

Growth rates in the Metro and NE regions are increasing, while other regions are decreasing.

Metro Region Case Count by Collection Date with 7 Day Moving Average – August 24, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.24.2020, New Mexico Department of Health.
Northeast Region Case Count by Collection Date with 7 Day Moving Average – August 24, 2020

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

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.24.2020, New Mexico Department of Health.
Northwest Region Case Count by Collection Date with 7 Day Moving Average – August 24, 2020

Positive samples collected during this time may not yet be reported.
Southwest Region Case Count by Collection Date with 7 Day Moving Average – August 24, 2020

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.24.2020, New Mexico Department of Health.

Positive samples collected during this time may not yet be reported.
Hospitalizations continue to decline.
Patients who are 60+ years old continue to make up the largest percentage of admissions each week. The 30-44 and 45-59 year old age groups each represented ~25% of admissions last week.

Hospitalizations may not yet be reported.
New hospitalizations of AI/AN patients may be beginning to increase, whereas admissions of White and Hispanic or Latino patients are declining.

As of August 24, 2020
COVID-19 Deaths by Week of Death, New Mexico

Deaths may not yet be reported.

Reporting through 8/23/2020
COVID-19 Deaths by Race/Ethnicity and Age Group, New Mexico

Reporting through 8/23/2020
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 8.23.2020, 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 2 days.
Supplementary Slides
## Modeling Assumptions

<table>
<thead>
<tr>
<th>Variable</th>
<th>Measured Value</th>
<th>Value as of 8.24.2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>R_Effective</td>
<td>Actual Measured Daily Value by key county</td>
<td>R_eff=1.0</td>
</tr>
<tr>
<td>Positive Test Multiplier</td>
<td>Calculated by LANL</td>
<td>3.5</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.10%\nICU 0.09%\nVent Rate 54% of ICU\nCrude Case Fatality Rate 3.5%</td>
</tr>
<tr>
<td>Length of Stay</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 5 days\nICU 14 days\nICU on Vent 14 days</td>
</tr>
</tbody>
</table>