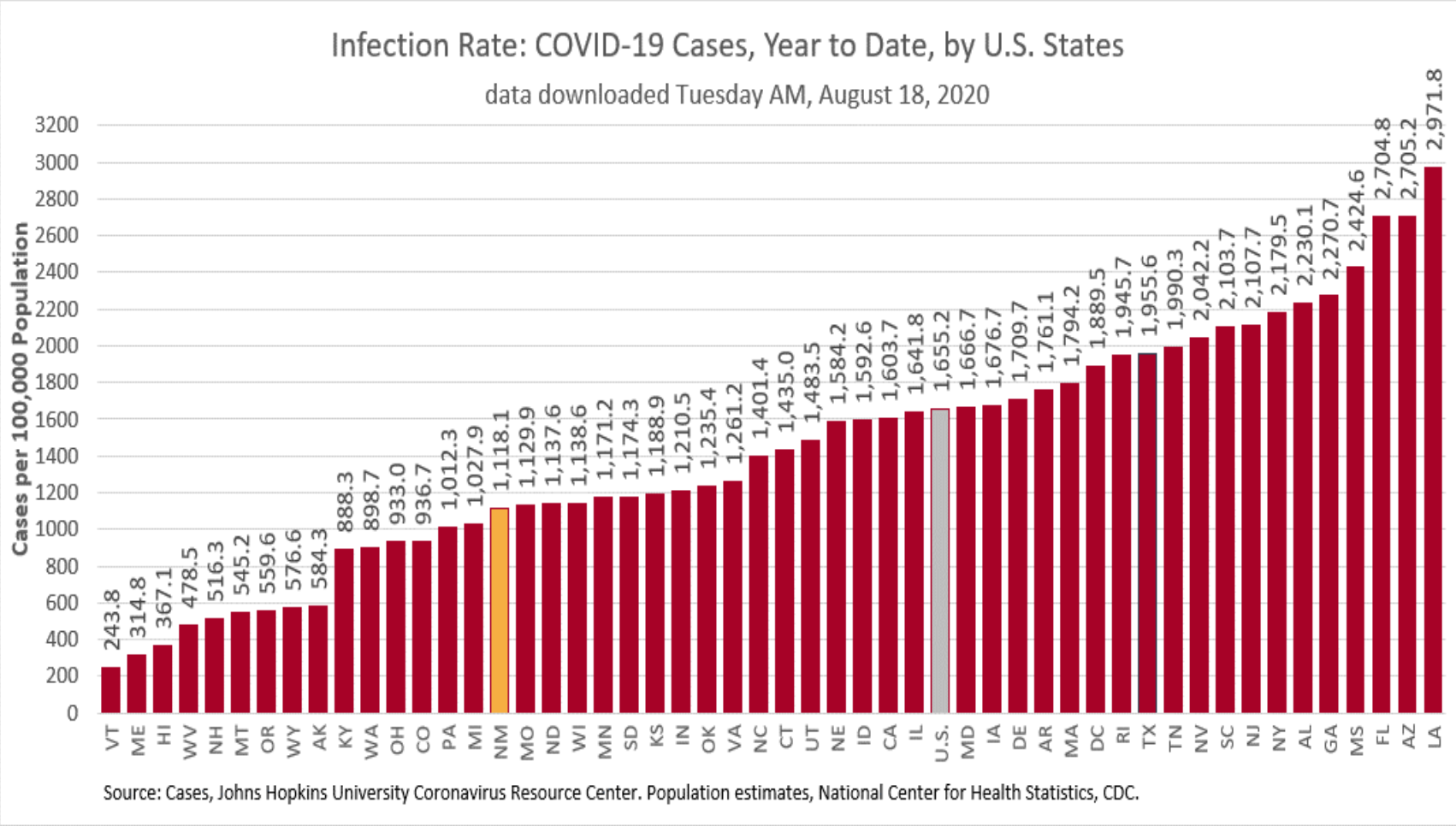


COVID-19 in New Mexico: Epidemiologic and Modeling Update

August 18, 2020

New Mexico has the 36th highest prevalence in the United States

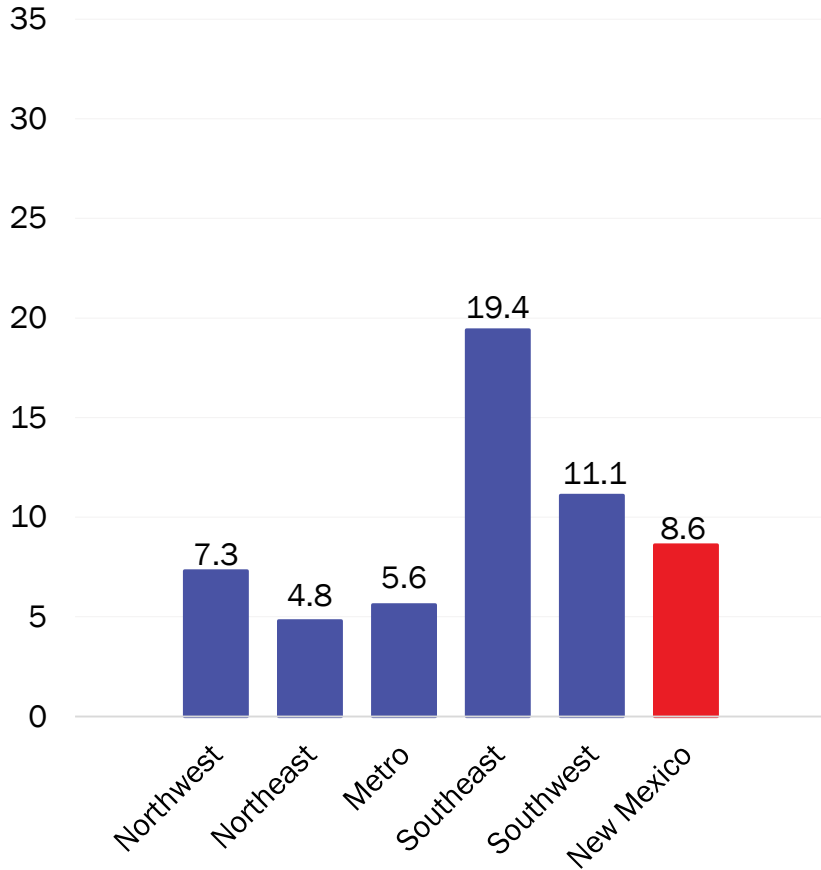


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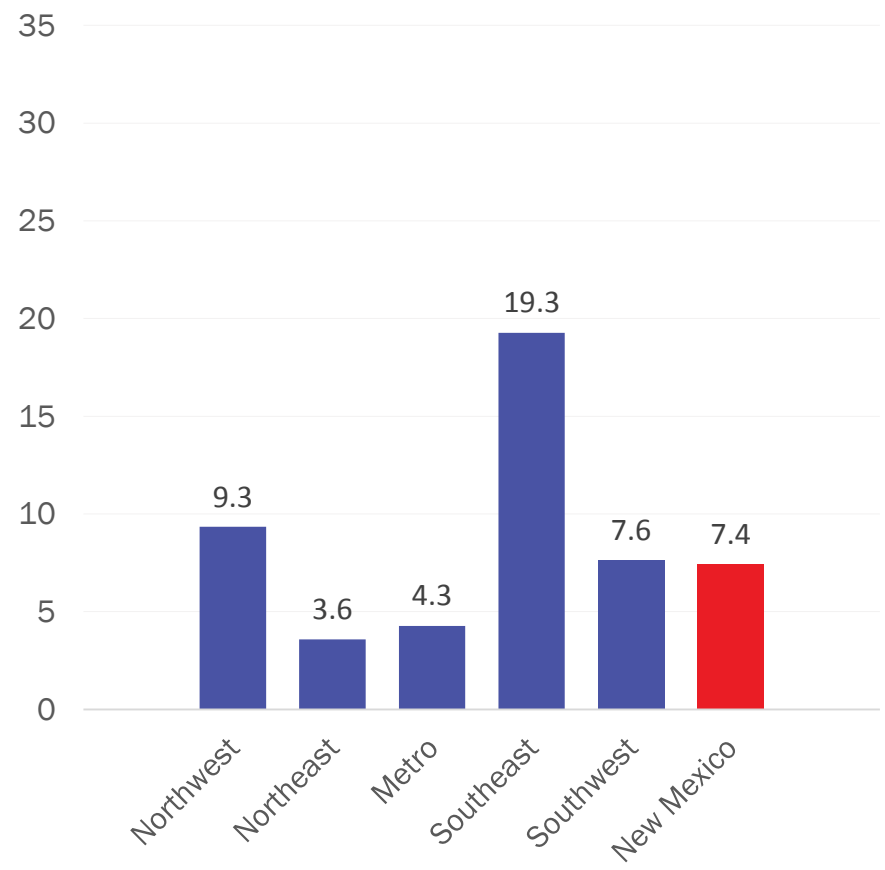
COVID-19 prevalence per 100,000 population

*Excludes cases in state and federal corrections and detention centers

New cases (Last 7 days) – August 3



New cases (Last 7 days) – August 16



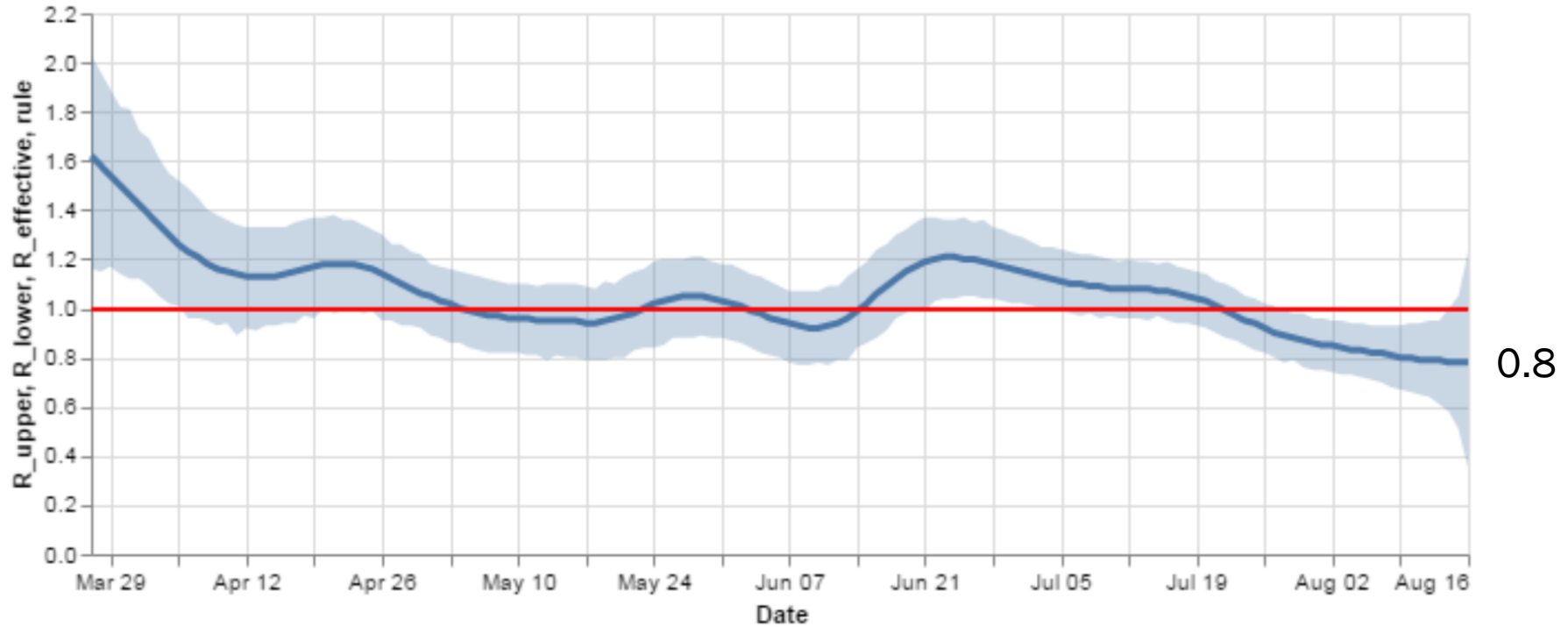
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.17.2020, New Mexico Department of Health. Population estimates, UNM Geospatial and Population Studies Program.



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Statewide R-effective has increased slightly to 0.8.

R_effective over time, STATE



0.8

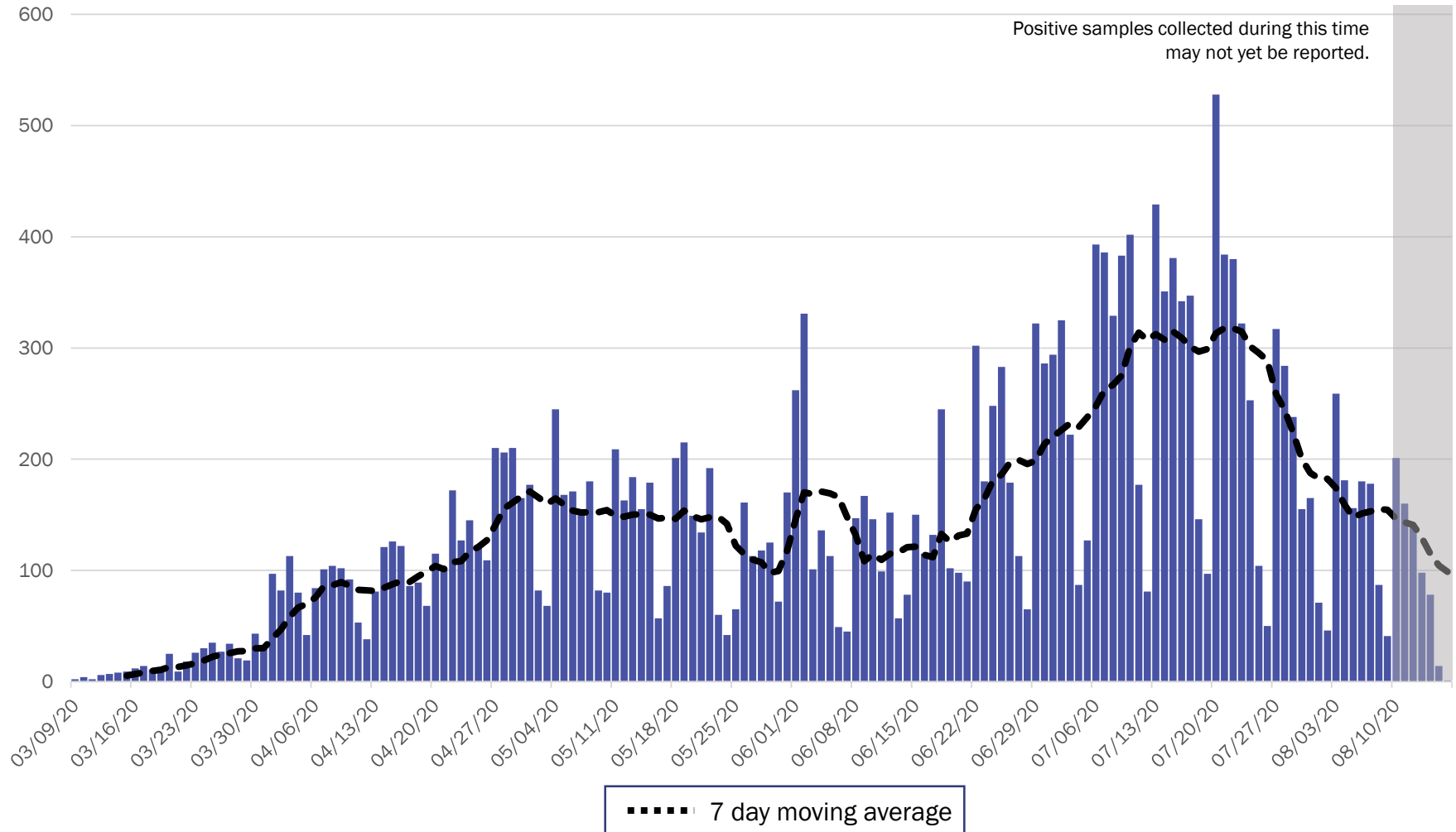
Courtesy of Presbyterian Healthcare Services – August 17, 2020.



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New Mexico COVID-19 Cases by Date of Specimen Collection – August 17, 2020



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



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Key

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

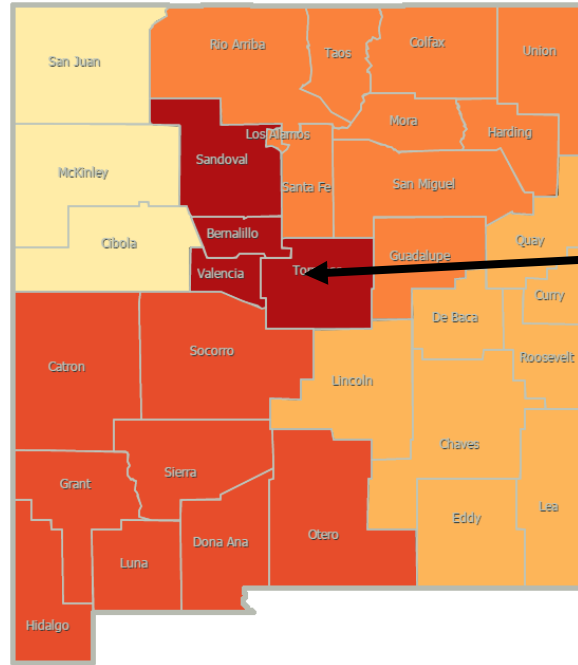
Northwest
R_effective 0.5 ↑

Northeast
R_effective 0.9 ↑

Metro
R_effective 0.7 ↑

Southwest
R_effective 0.7 ↓

Southeast
R_effective 1.0 =



As of August 10, 2020

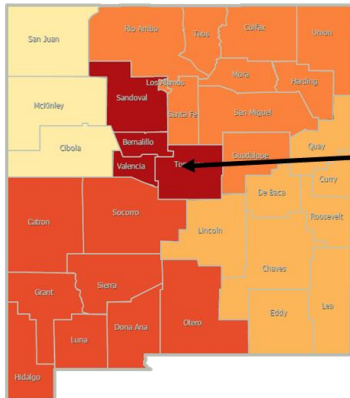
Northwest
R_effective 0.2 ↓

Northeast
R_effective 0.7 ↓

Metro
R_effective 0.6 ↓

Southwest
R_effective 0.8 ↑

Southeast
R_effective 1.0 ↓



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]

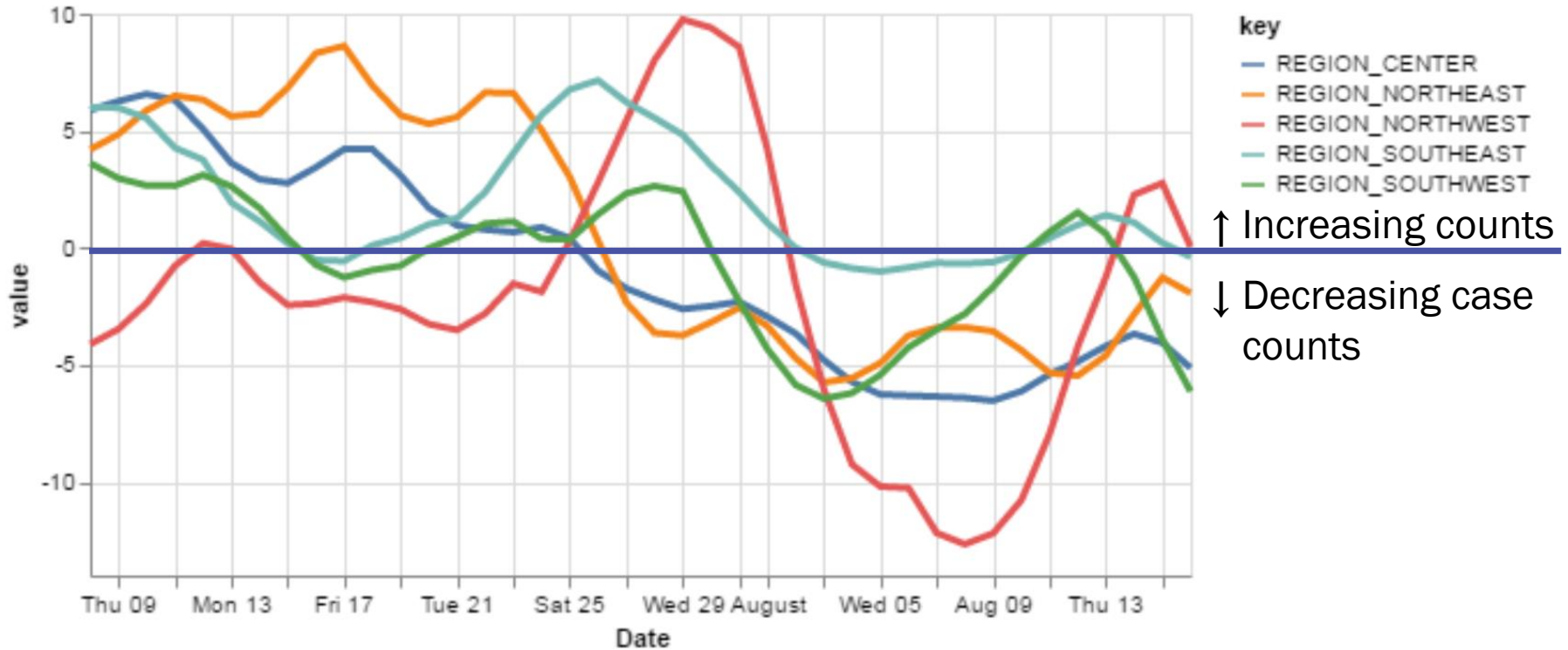
Courtesy of Presbyterian Healthcare Services – August 17, 2020.



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The Northwest and Southeast have relative growth rates equal to 0.

14-day relative growth rate (%), Regions



Courtesy of Presbyterian Healthcare Services – August 17, 2020.

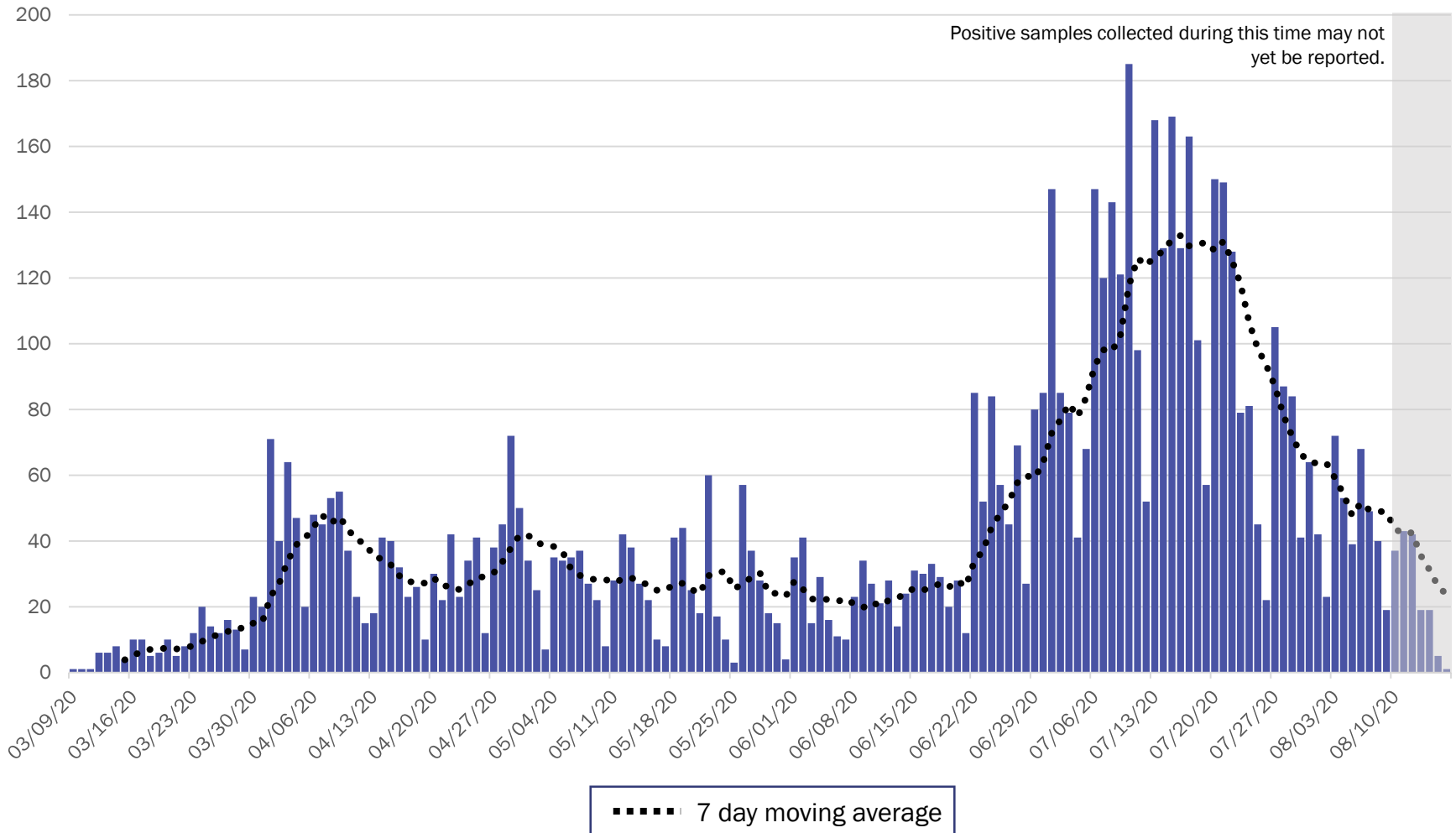


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Metro Region Case Count by Collection Date with 7 Day Moving Average August 17, 2020



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

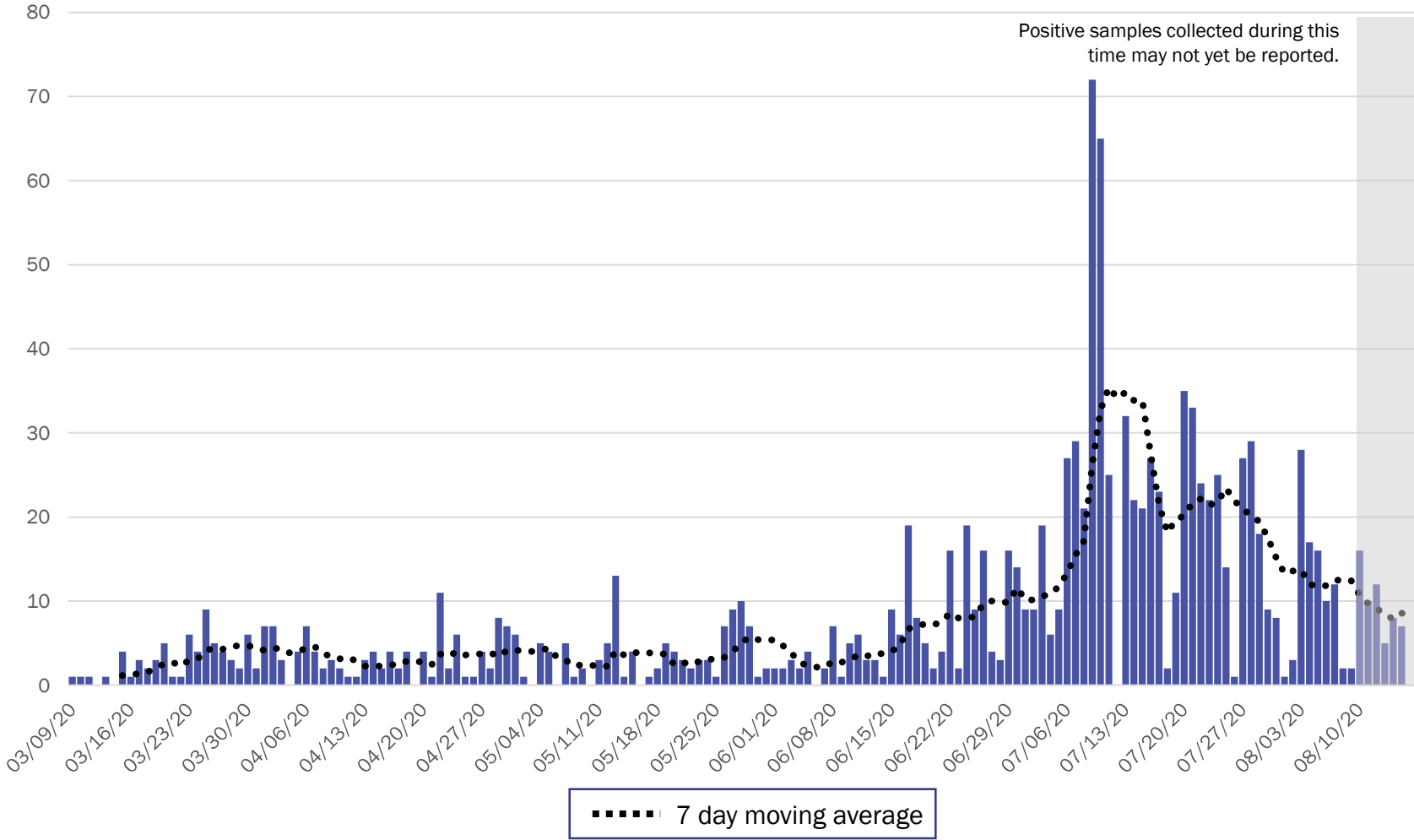


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Northeast Region Case Count by Collection Date with 7 Day Moving Average

August 17, 2020



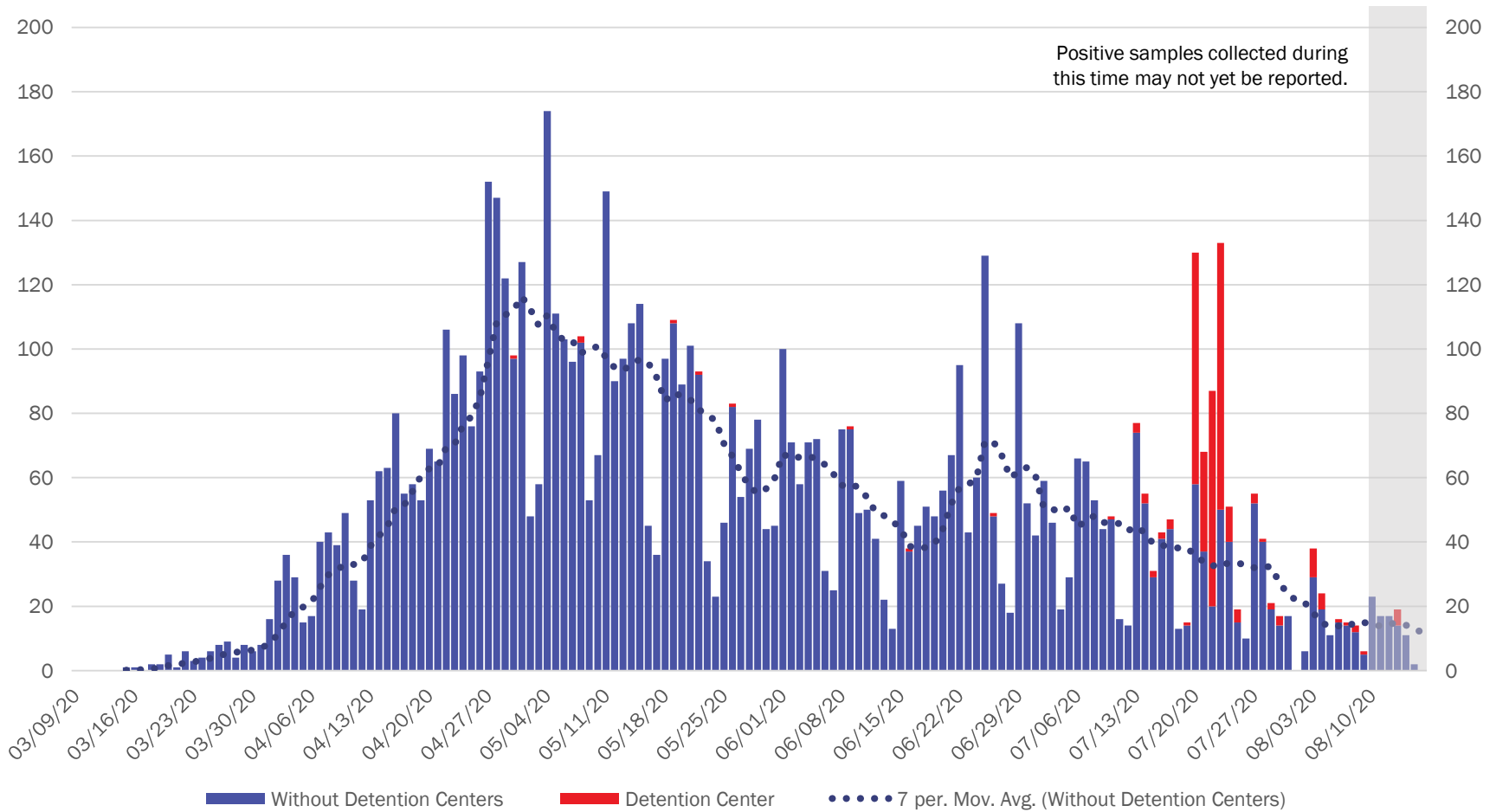
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.17.2020, New Mexico Department of Health.



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Northwest Region Case Count by Collection Date with 7 Day Moving Average August 17, 2020



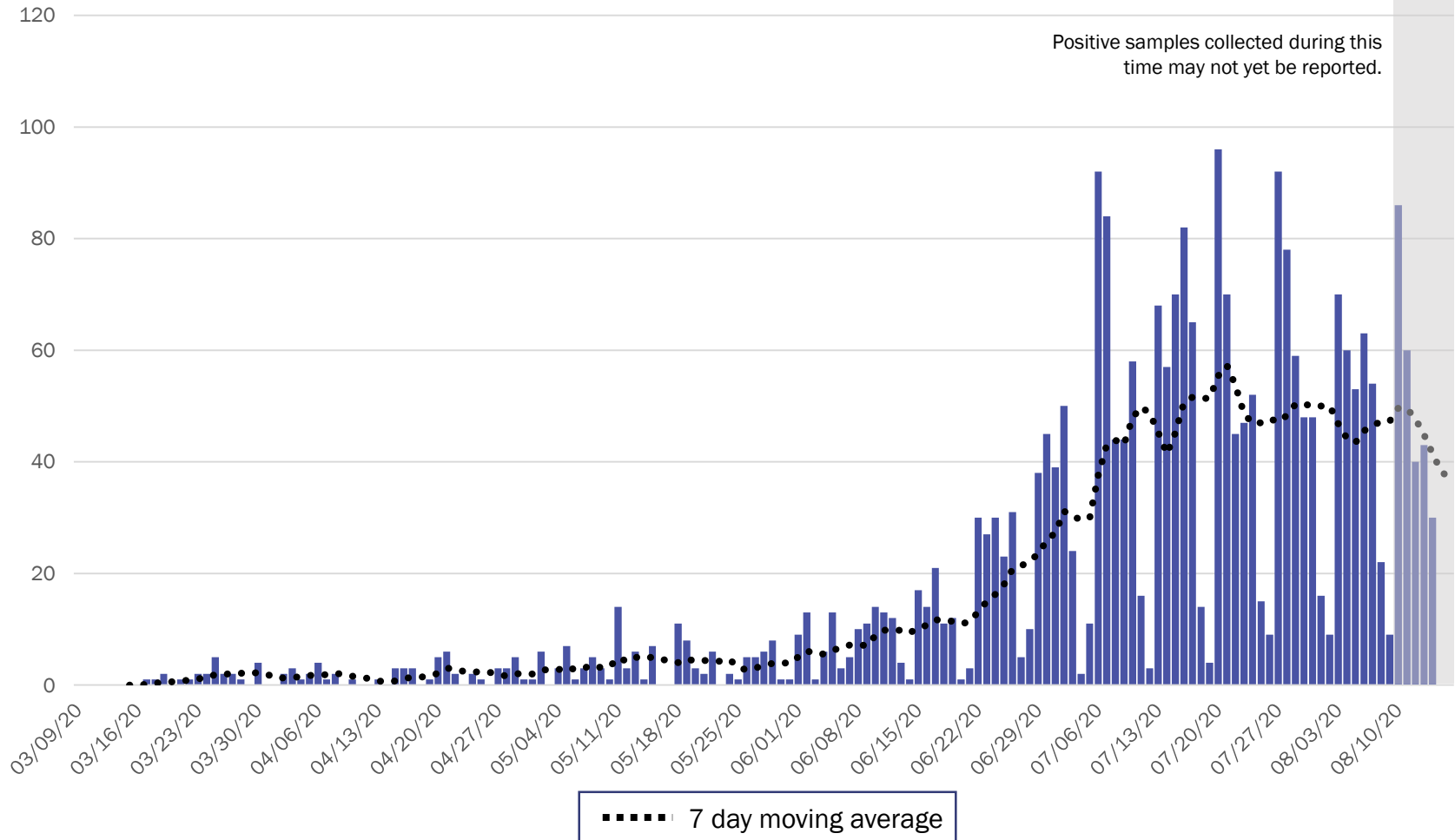
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.17.2020, New Mexico Department of Health.



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Southeast Region Case Count by Collection Date with 7 Day Moving Average August 17, 2020



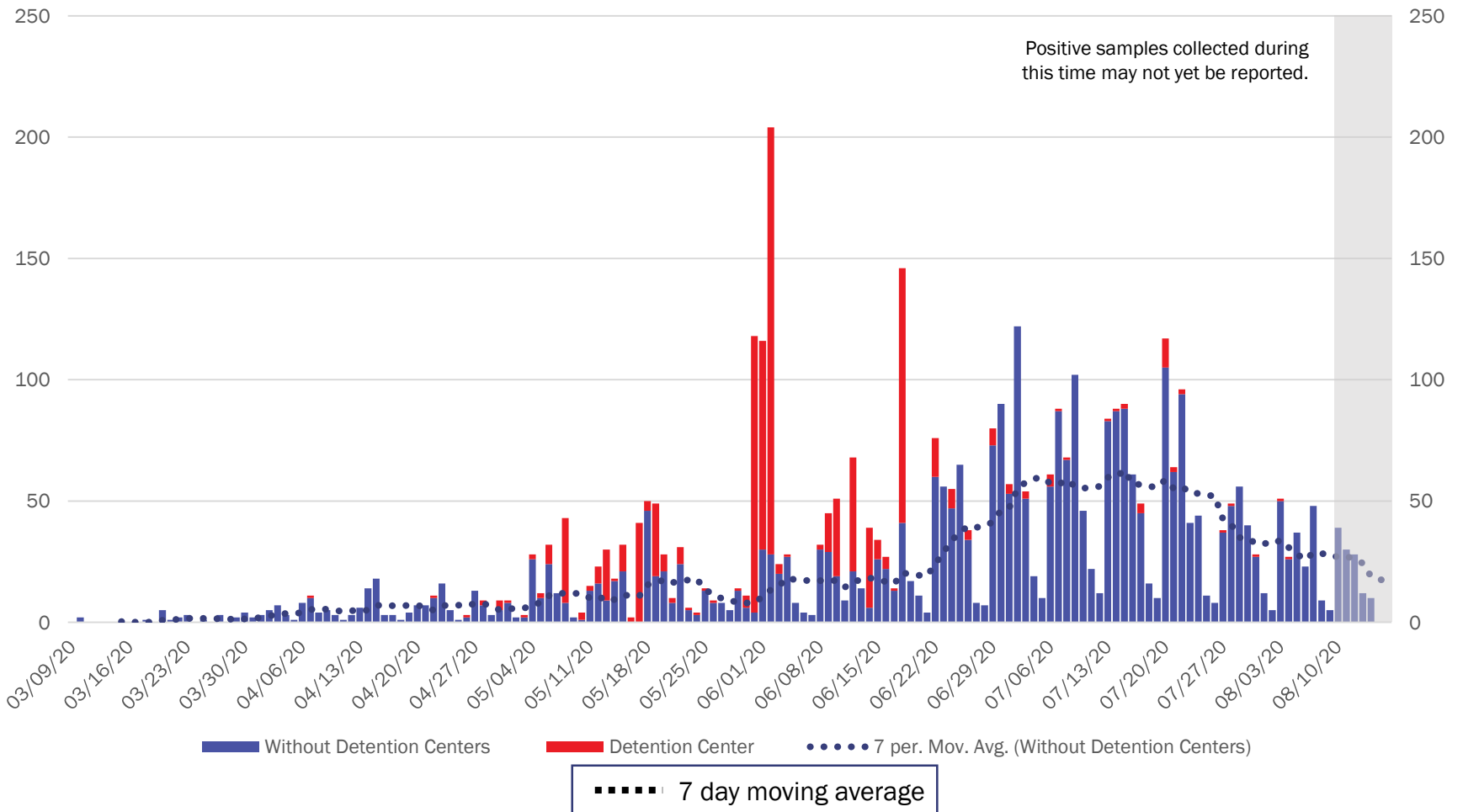
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.17.2020, New Mexico Department of Health.



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Southwest Region Case Count by Collection Date with 7 Day Moving Average August 17, 2020



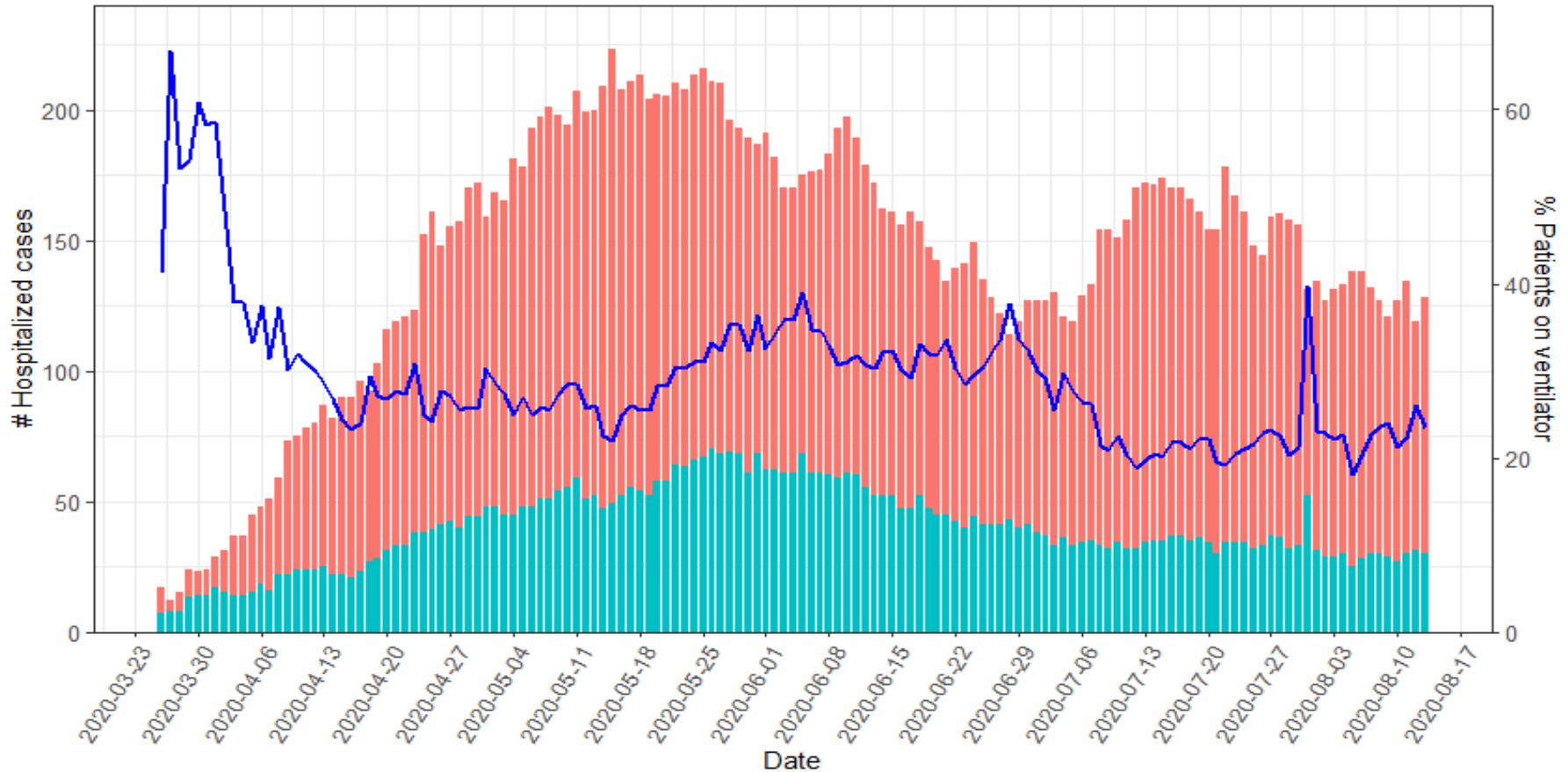
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 8.17.2020, New Mexico Department of Health.



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Hospitalizations have been steadily declining since mid-July.

No ventilator Ventilator % Patients on ventilator



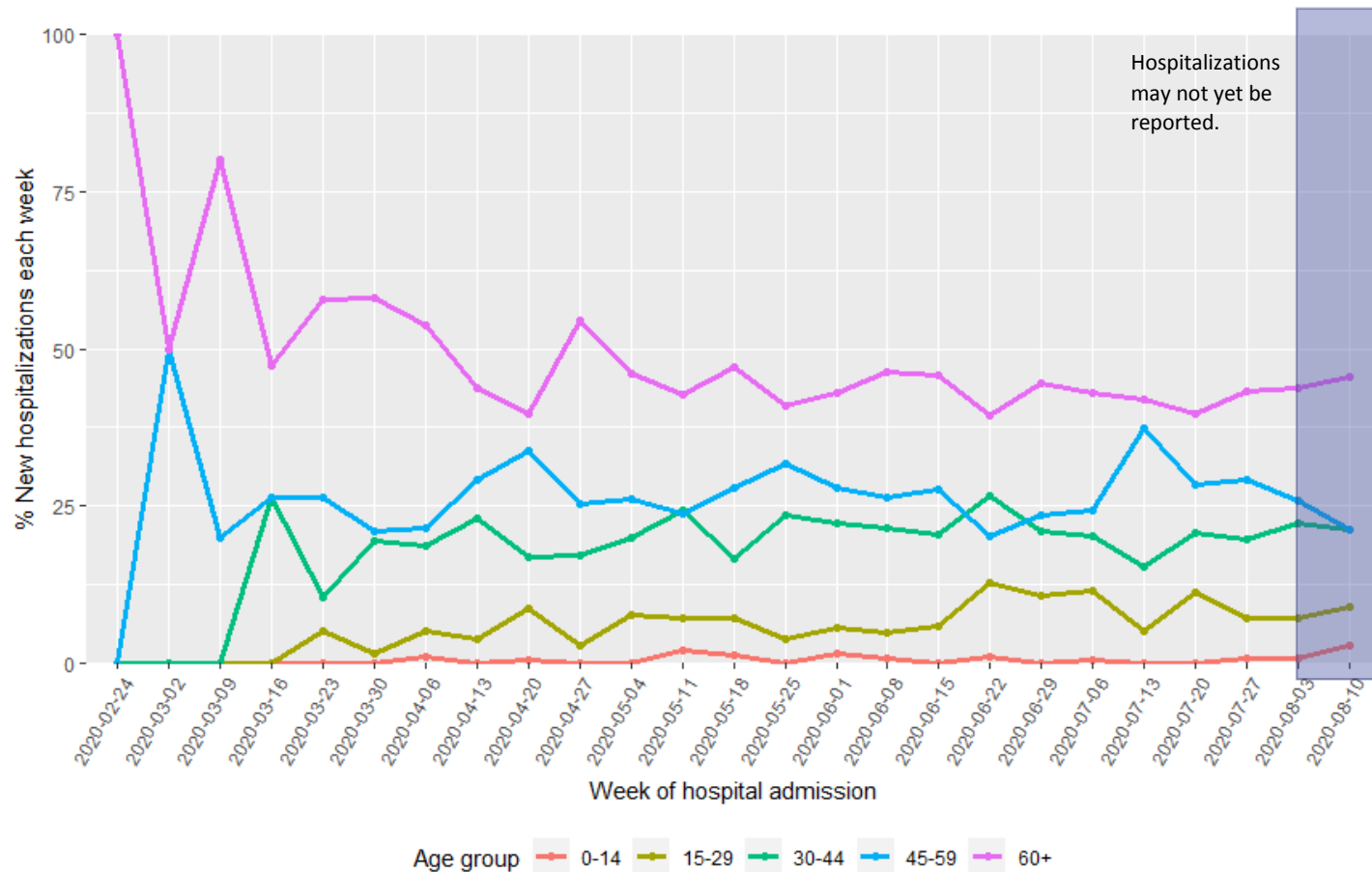
As of August 13, 2020



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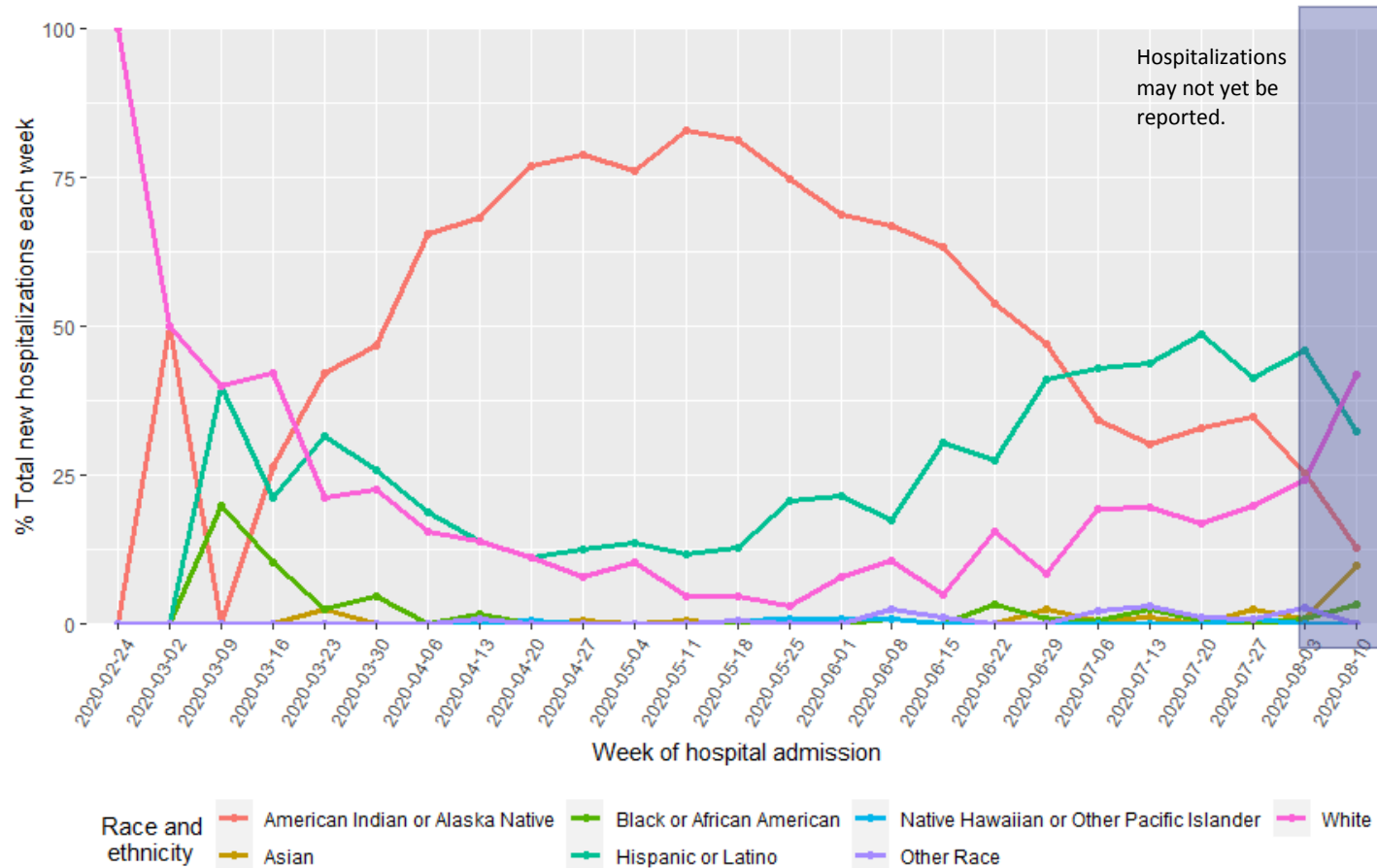
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The 45-59 and 60+ year old age groups make up the highest percentages of new hospital admissions each week.



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.

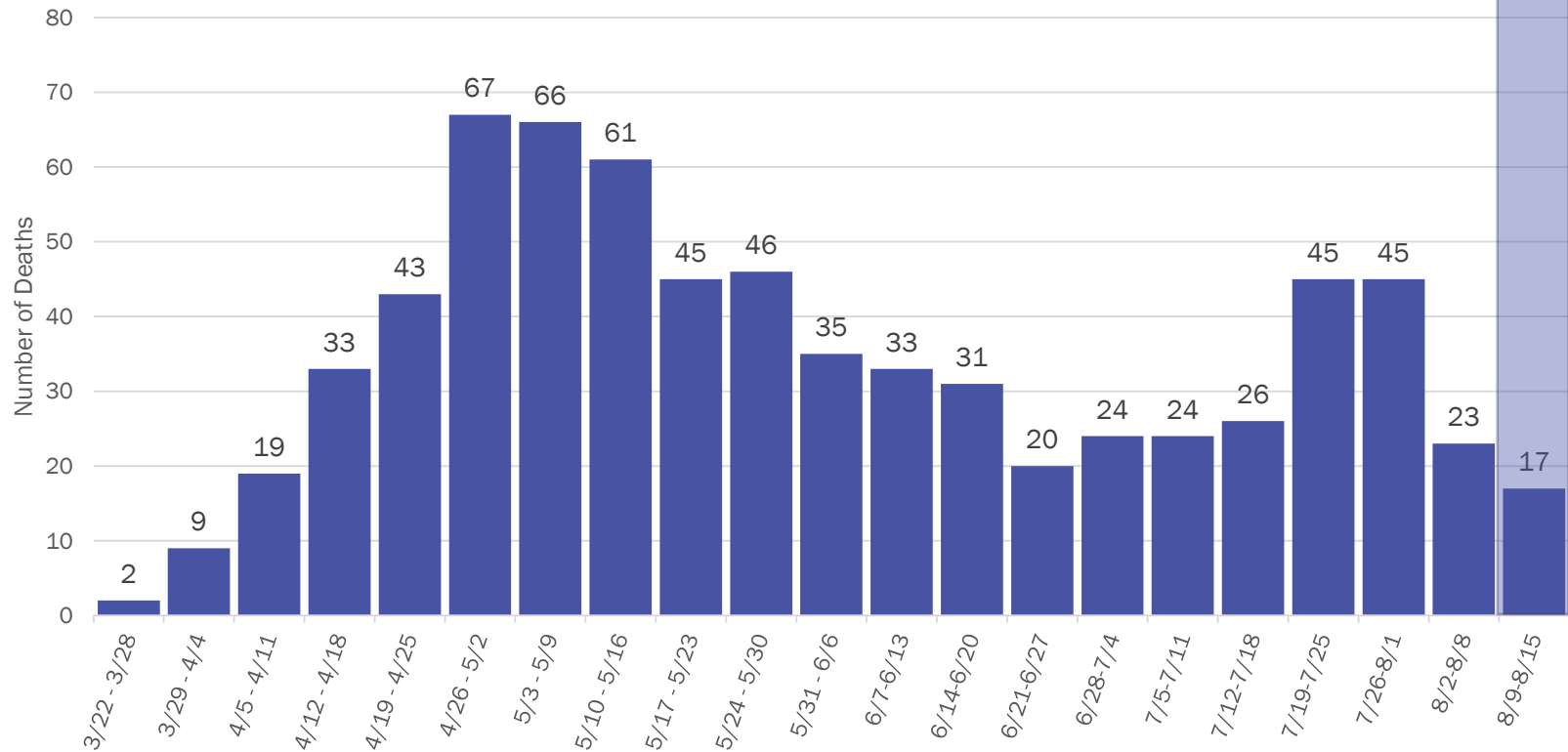


As of August 13, 2020

Spike in deaths from 7/19 to 8/1, but may be decreasing.

COVID-19 Deaths by Week of Death, New Mexico

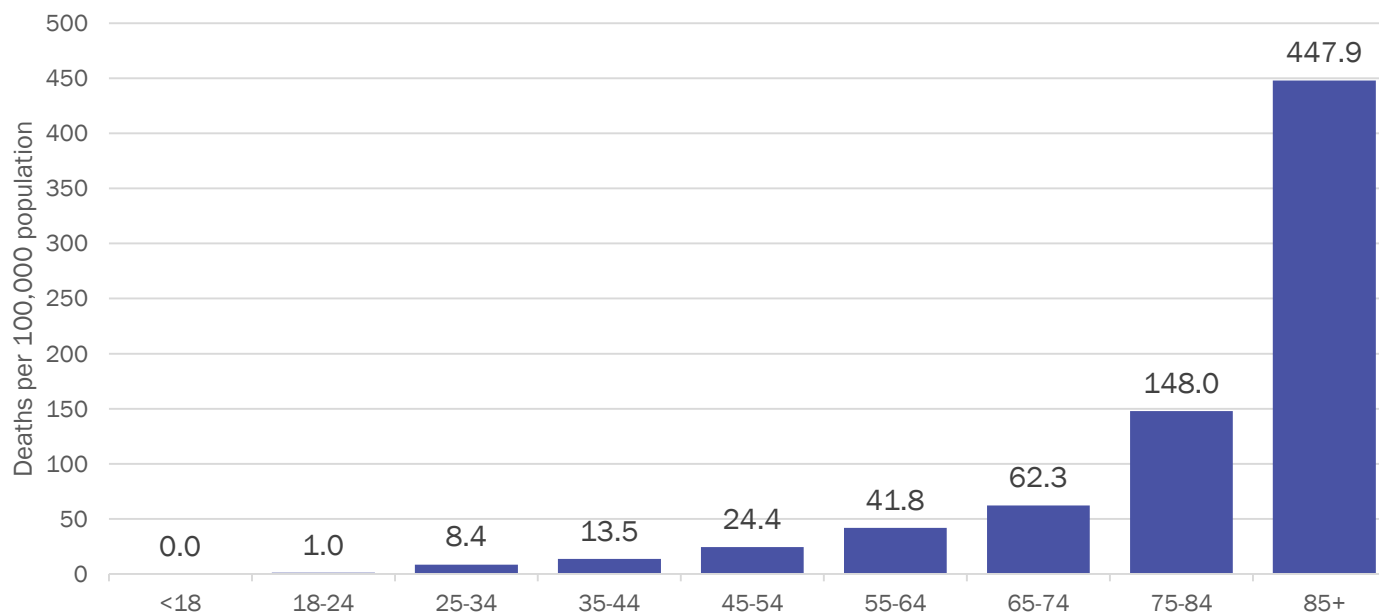
Deaths may not yet be reported.



Reporting through 8/16/2020

The trend of increasing mortality with age remains unchanged.

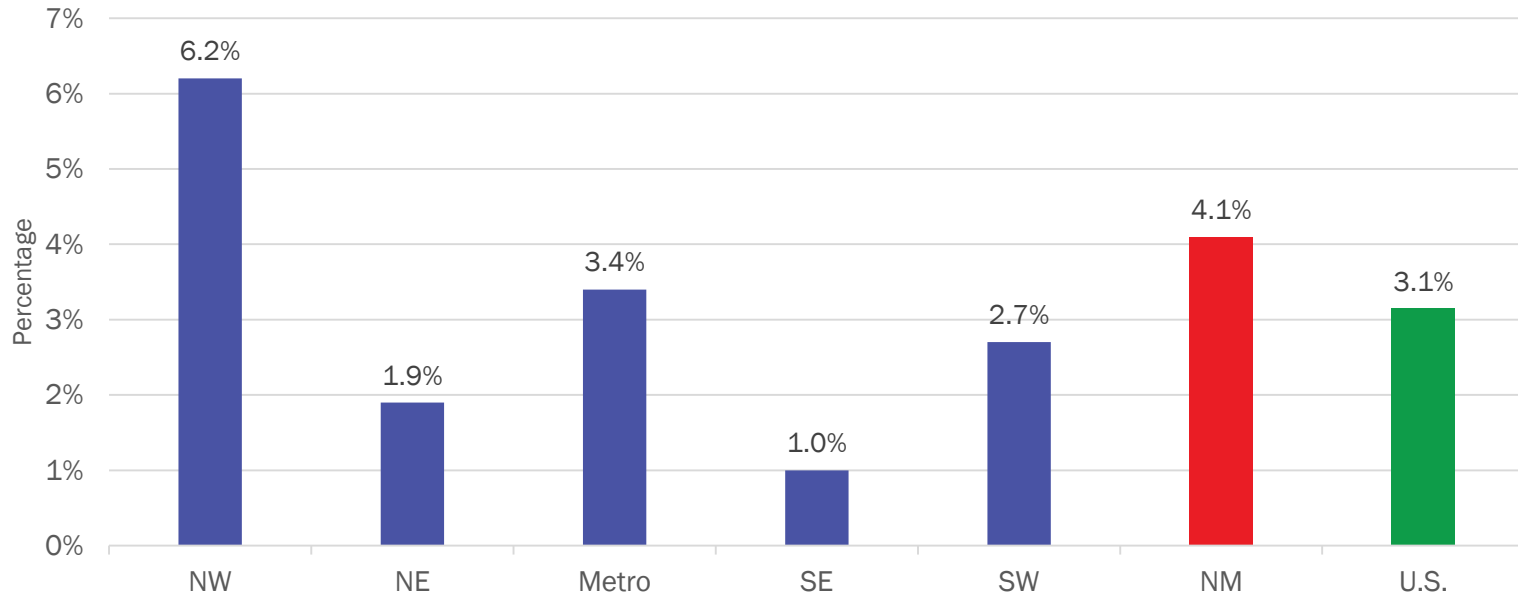
COVID-19 Mortality Rate by Age Group,
New Mexico



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



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

Variable	Measured Value	Value as of 8.17.2020
R_Effective	Actual Measured Daily Value by key county	R_eff=0.8
Positive Test Multiplier	Calculated by LANL	3.8
Hospitalization and Mortality	Actual rolling value / estimated number of total infected	Medical 0.15% ICU 0.12% Vent Rate 53% of ICU Crude Case Fatality Rate 3.8%
Length of Stay	Actual rolling value / estimated number of total infected	Medical 5 days ICU 14 days ICU on Vent 14 days