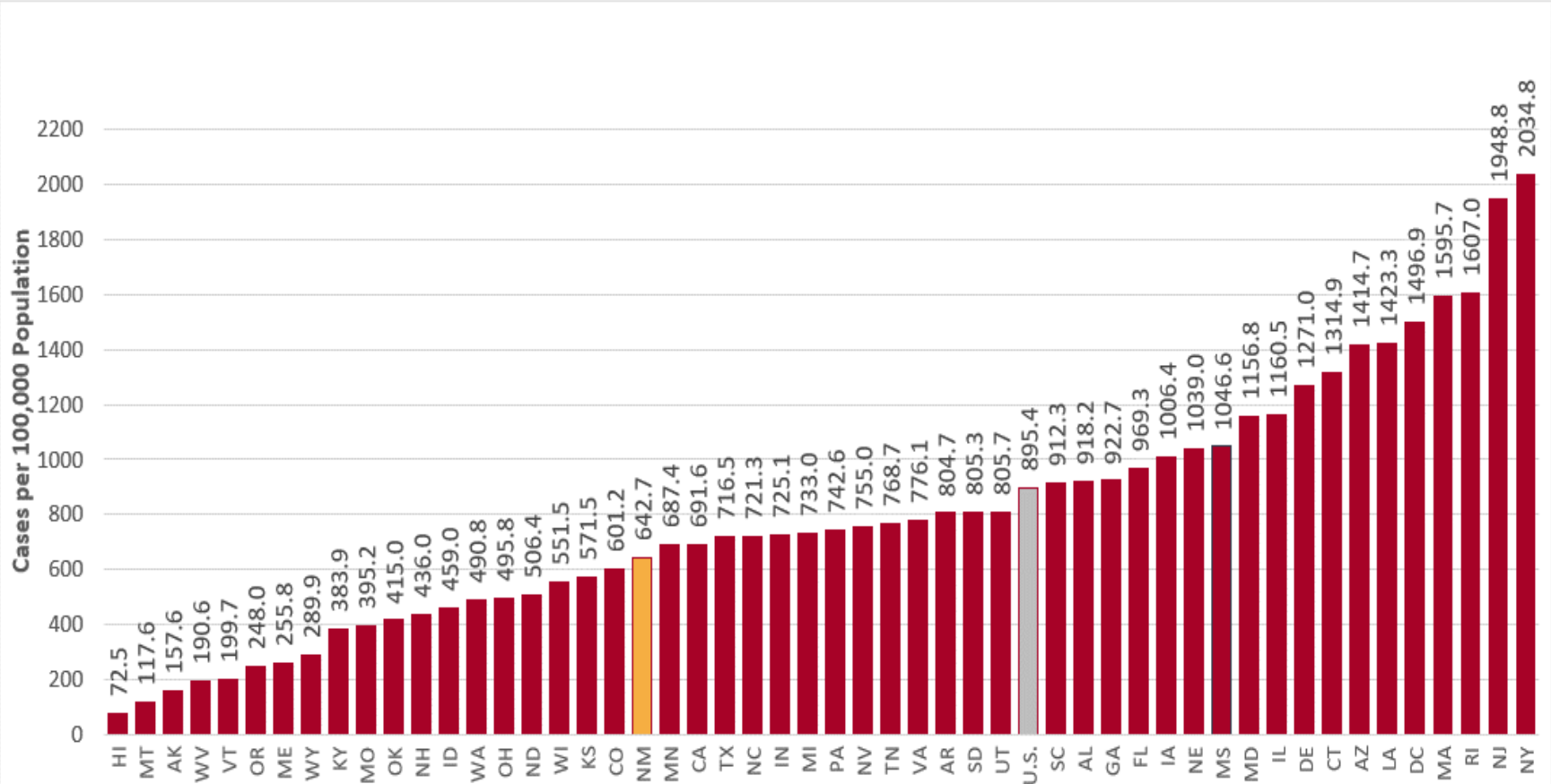


COVID-19 in New Mexico: Epidemiologic and Modeling Update

July 7, 2020

New Mexico has the 32nd highest prevalence in the United States



Source: Cases, Johns Hopkins University Coronavirus Resource Center. Population estimates, National Center for Health Statistics, CDC.

As of July 7, 2020

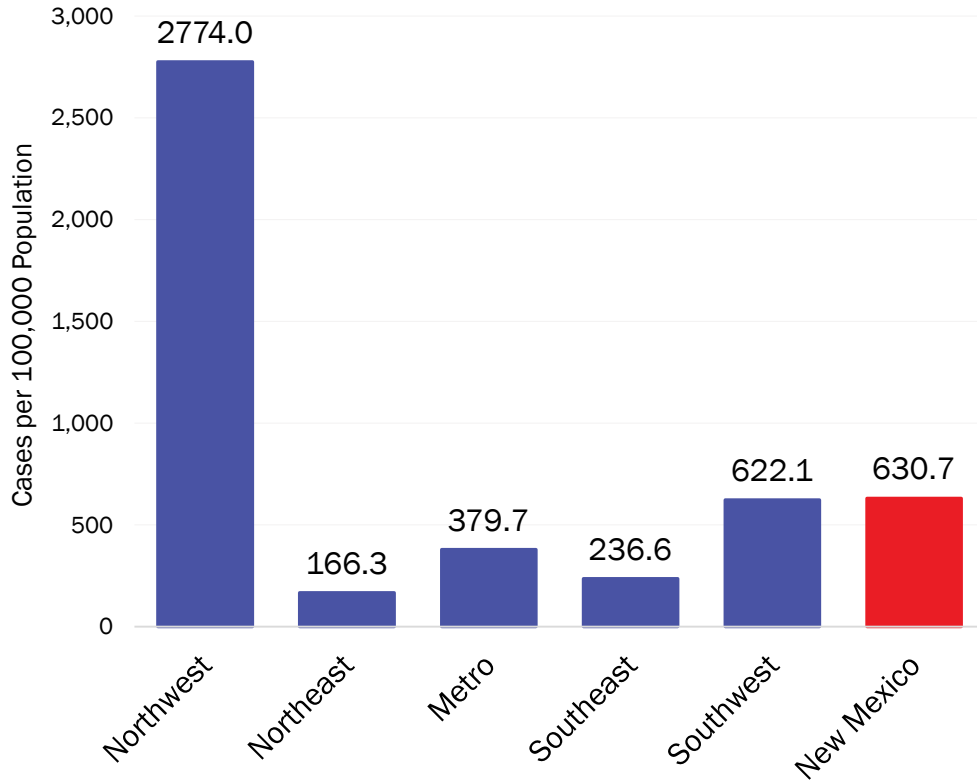


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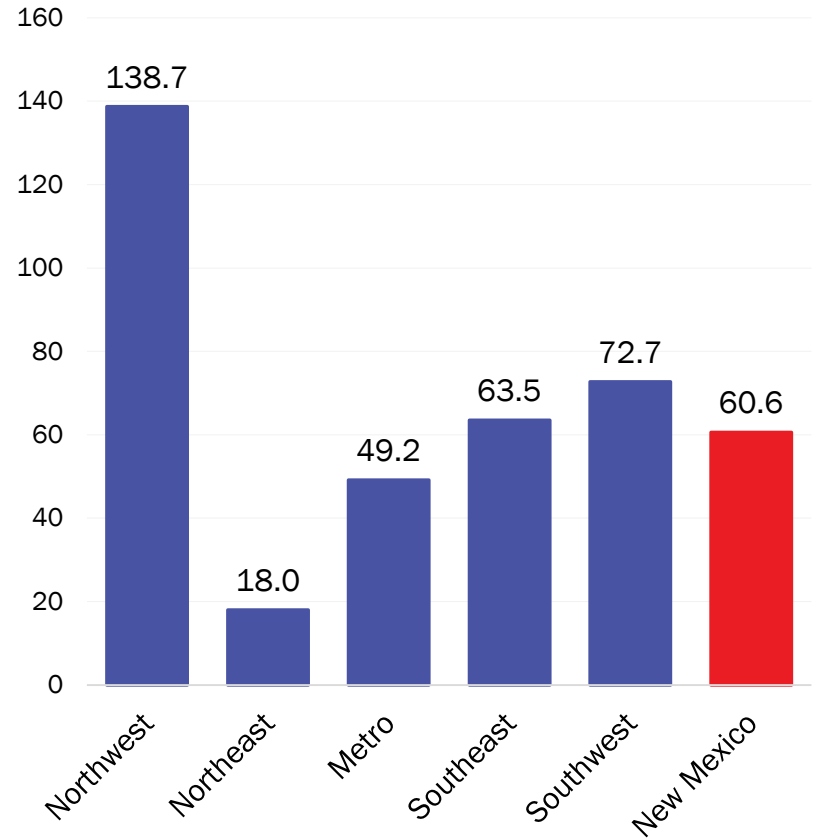


COVID-19 prevalence per 100,000 population

Year-to-Date

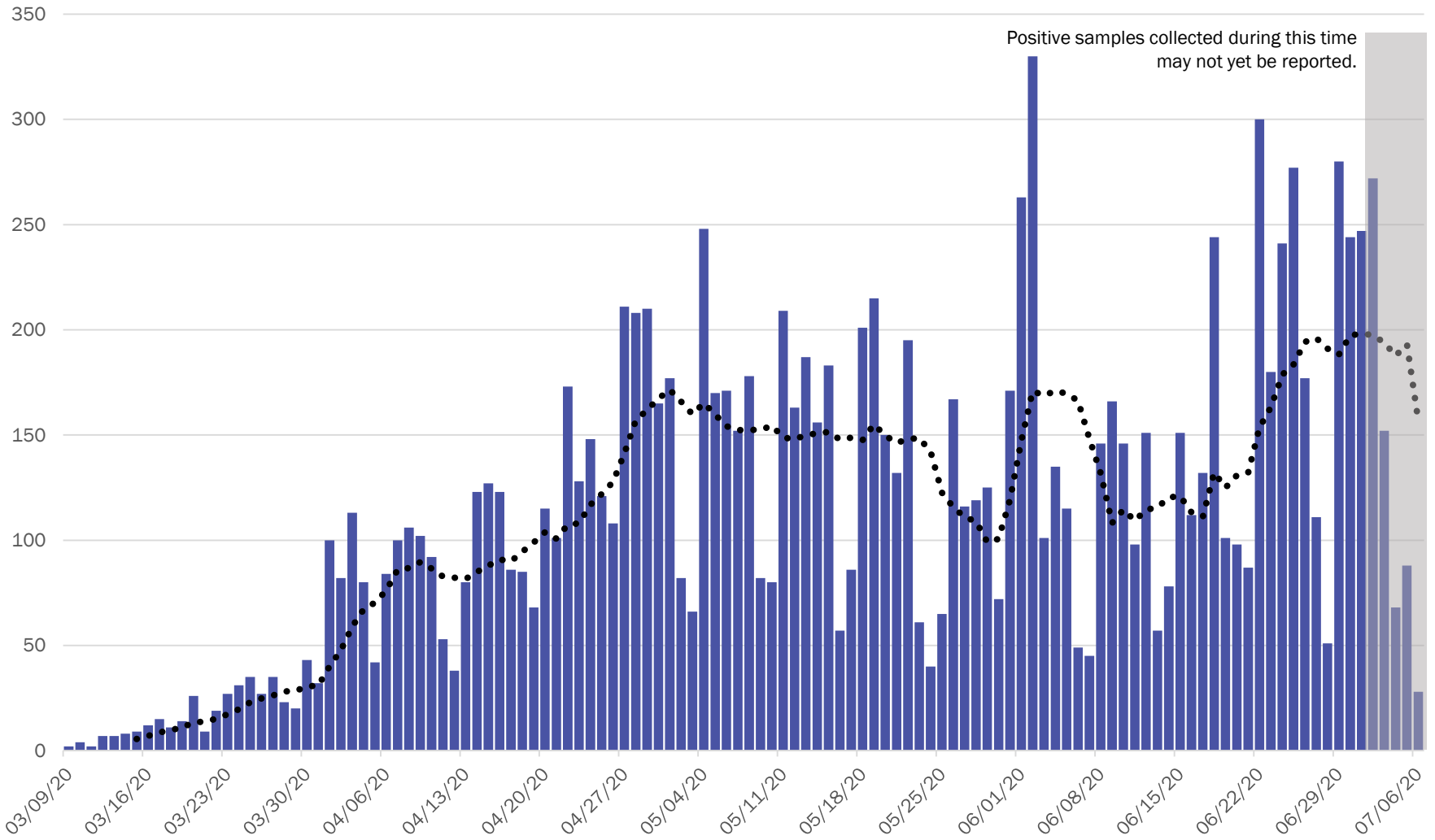


Last 7 Days



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 7.5.2020, New Mexico Department of Health. Population estimates, UNM Geospatial and Population Studies Program.

New Mexico COVID-19 Cases by Date of Specimen Collection - 7/7/20



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 7.7.2020, New Mexico Department of Health.

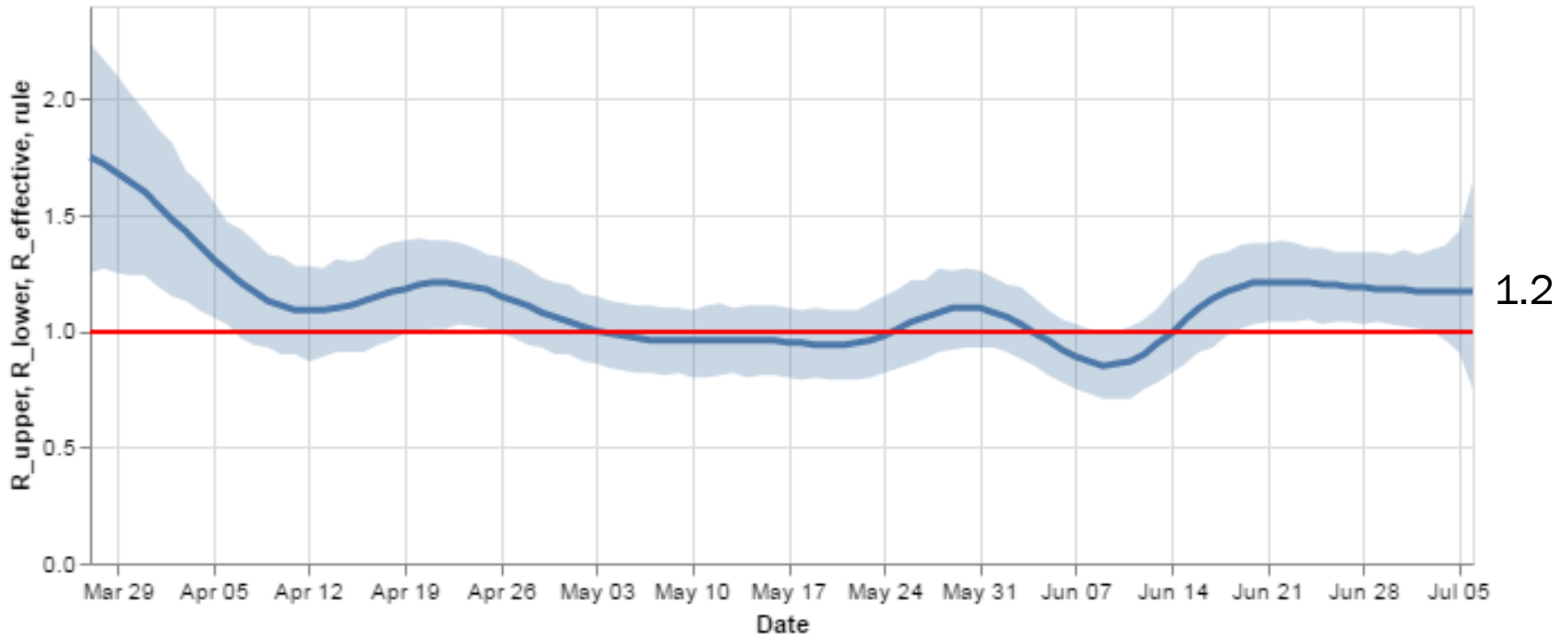


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Statewide R-effective has stayed steady at about 1.2 for the past 2 weeks.

R_effective over time, STATE



1.2

Courtesy of Presbyterian Healthcare Services – July 7, 2020.



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Key

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

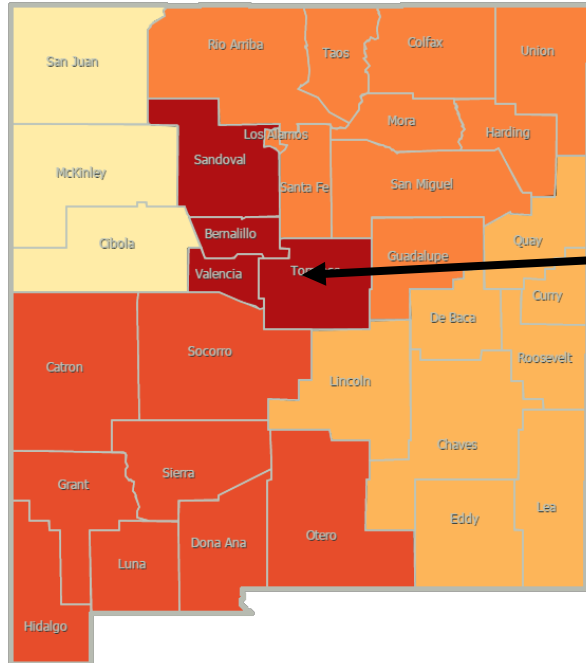
Northwest
R_effective 0.8 ↓

Northeast
R_effective 1.1 ↓

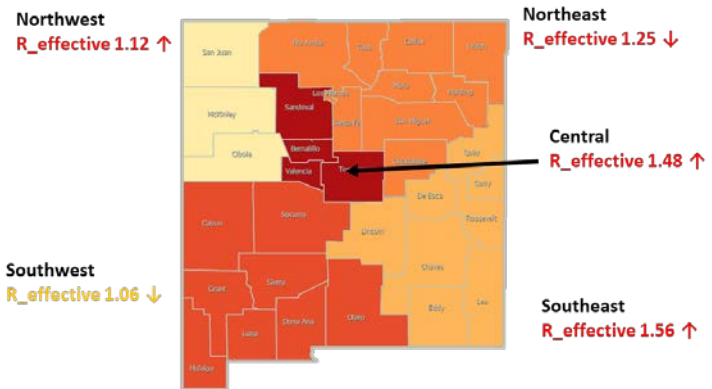
Metro
R_effective 1.3 ↓

Southwest
R_effective 1.4 ↑

Southeast
R_effective 1.3 ↓



As of June 29, 2020



Region	R-effective	95% Confidence Interval
State	1.2	[0.8, 1.6]
Metro	1.3	[0.6, 2.0]
Northeast	1.1	[0.0, 3.4]
Northwest	0.8	[0.0, 1.8]
Southeast	1.3	[0.3, 2.7]
Southwest	1.4	[0.6, 2.4]

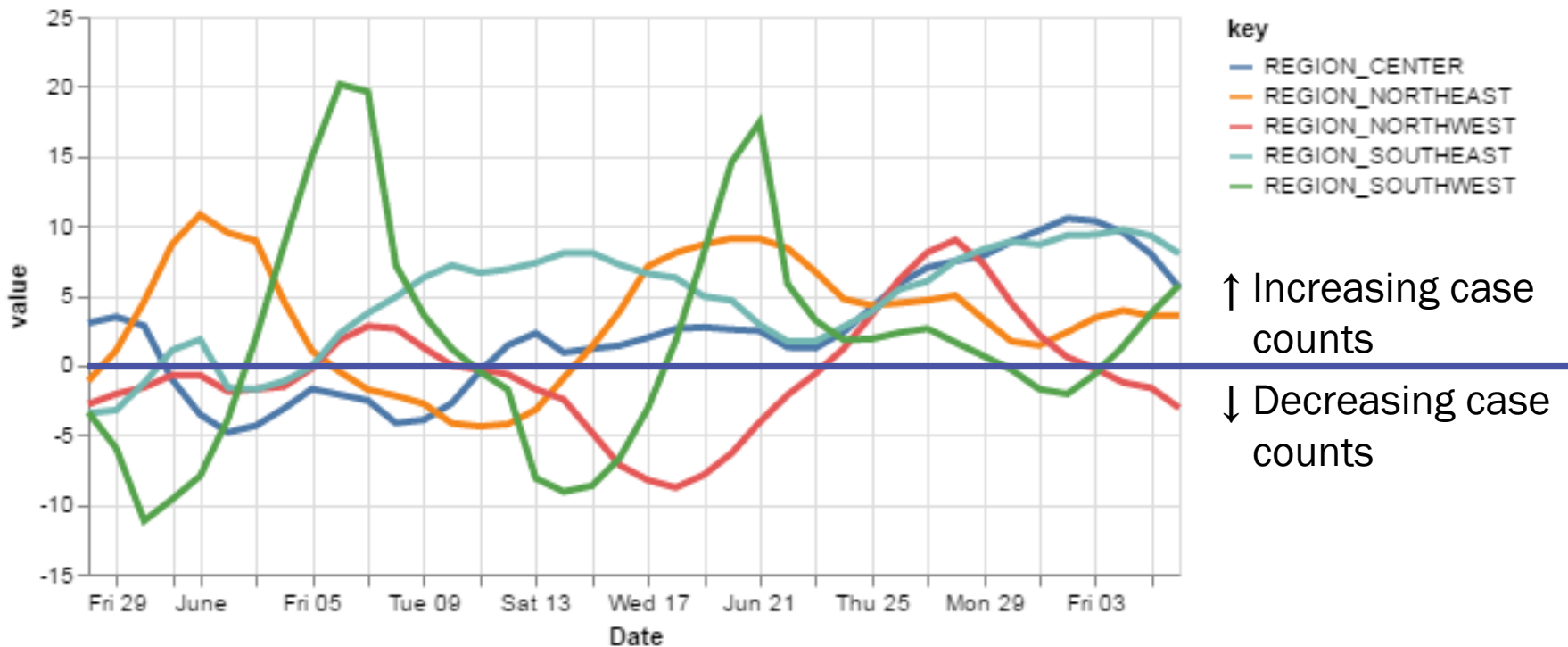
Courtesy of Presbyterian Healthcare Services – July 7, 2020.



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Only the Northwest region currently has decreasing growth.

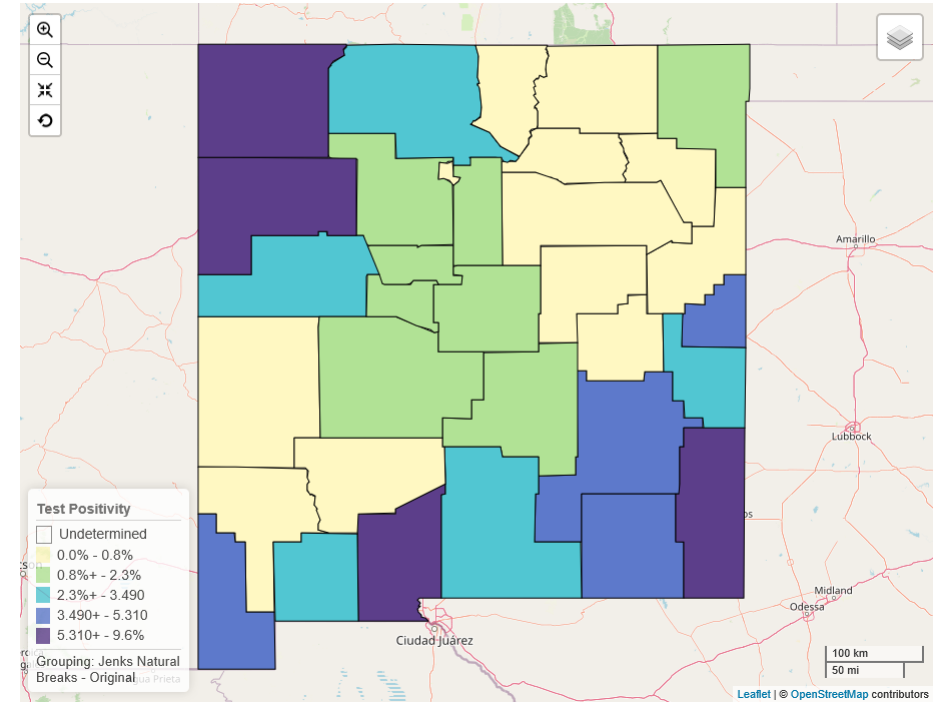
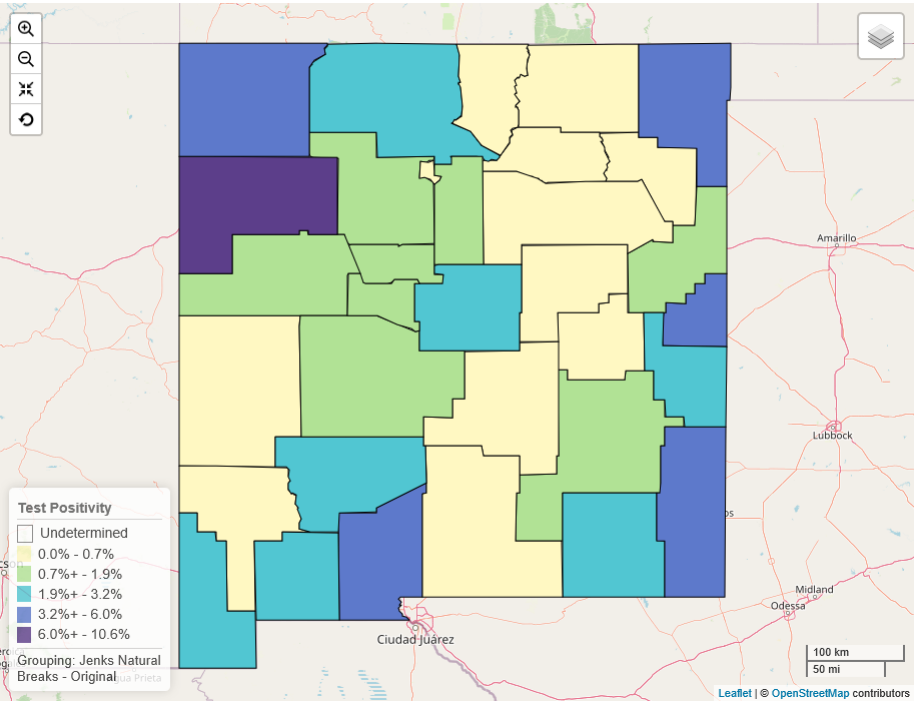
14-day relative growth rate (%), Regions



Percent Positive Tests

June 9 – June 22

June 23 – July 6



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 7.6.2020, New Mexico Department of Health.

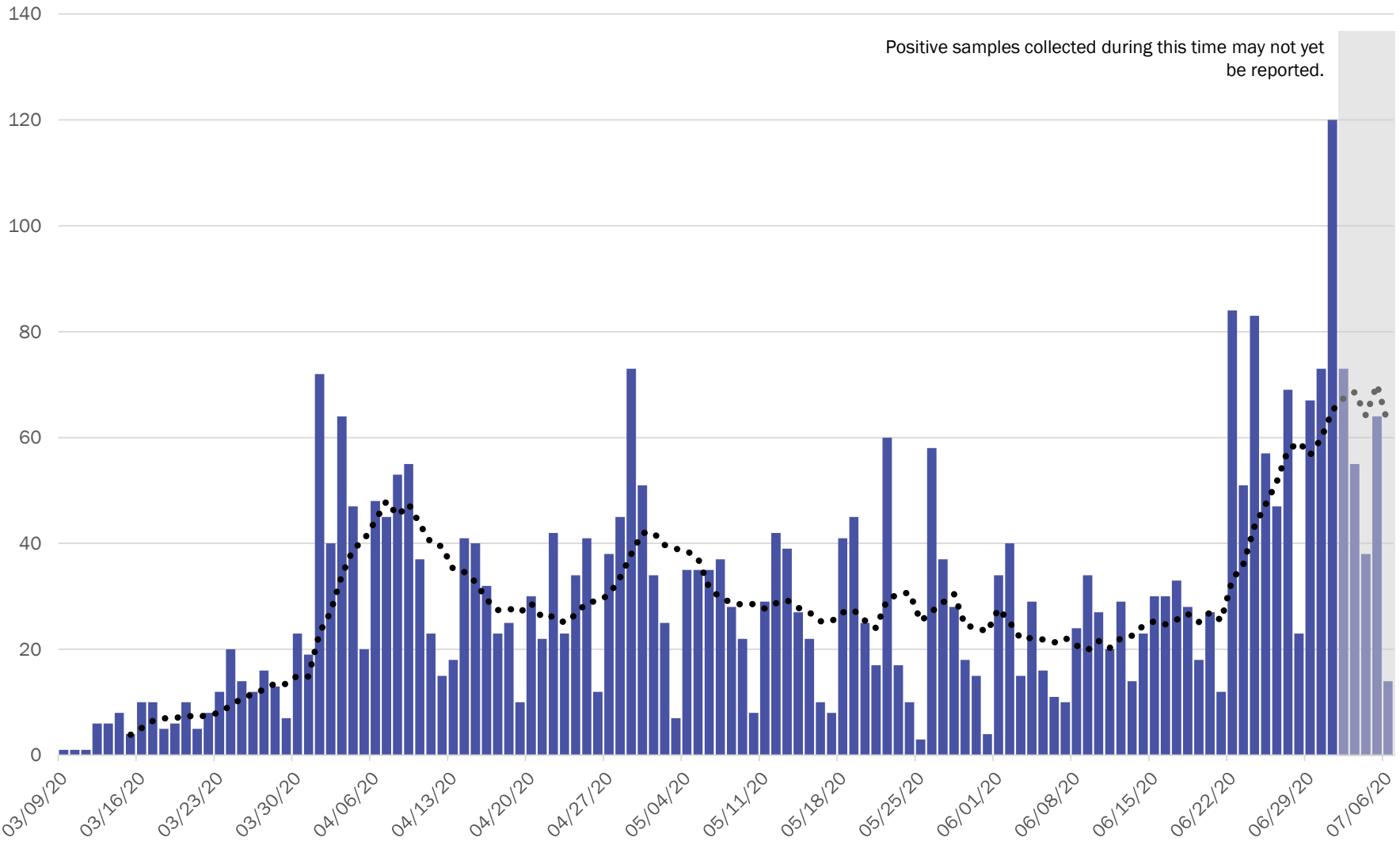


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Metro Region Case Count by Collection Date with 7 Day Moving Average – July 7, 2020



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 7.7.2020, New Mexico Department of Health.

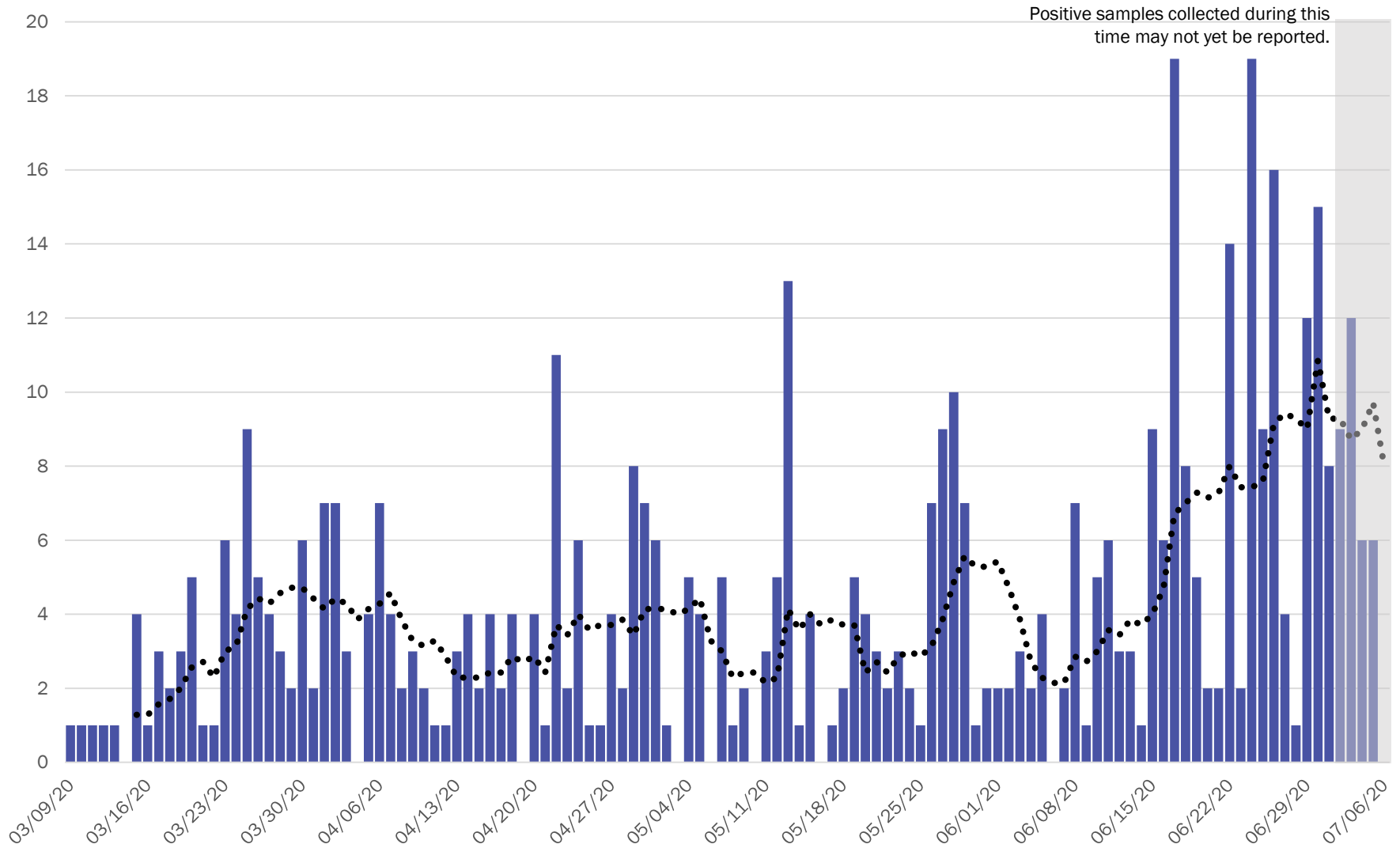


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Northeast Region Case Count by Collection Date with 7 Day Moving Average – July 7, 2020



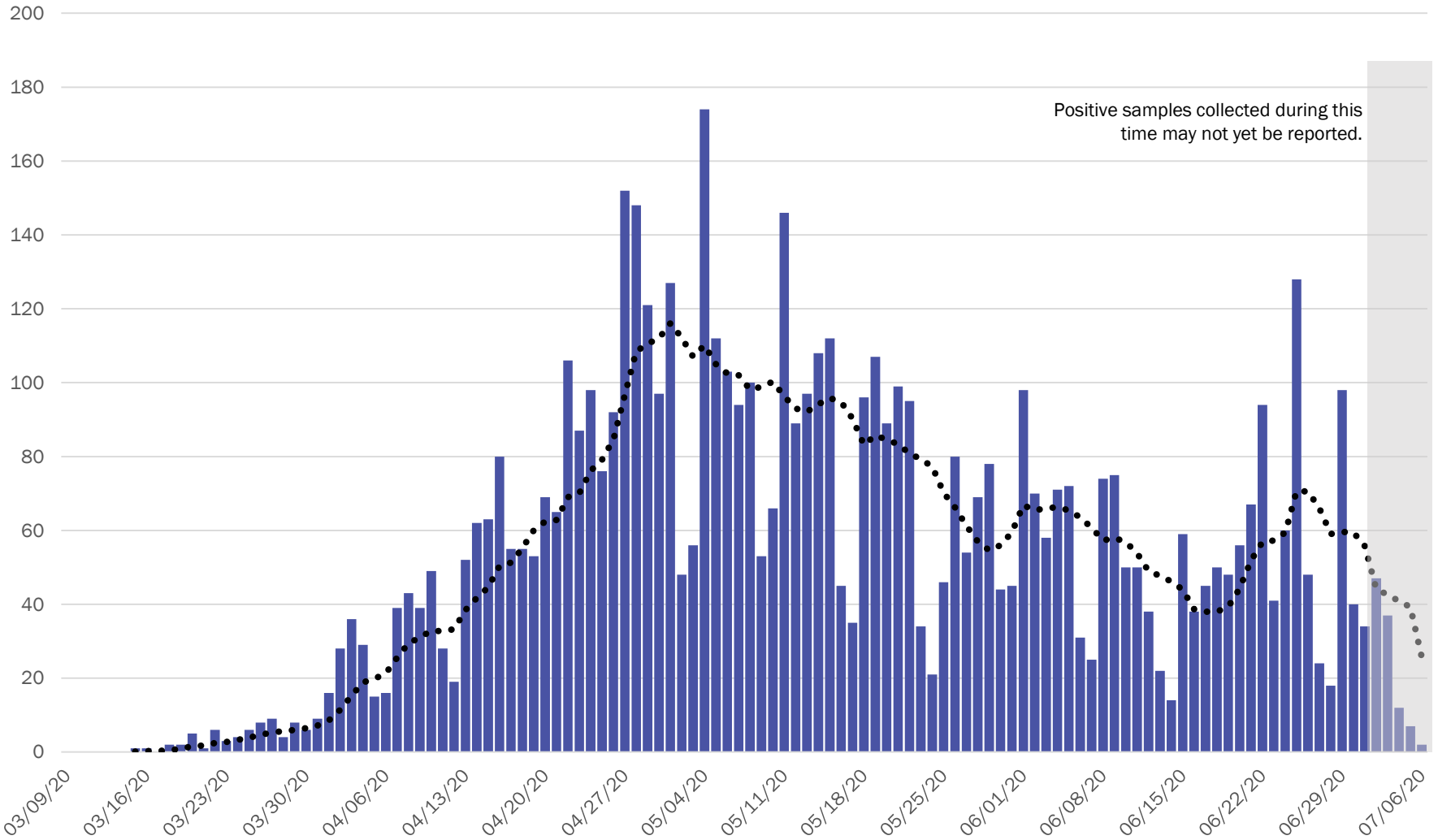
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 7.7.2020, New Mexico Department of Health.



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Northwest Region Case Count by Collection Date with 7 Day Moving Average – July 7, 2020



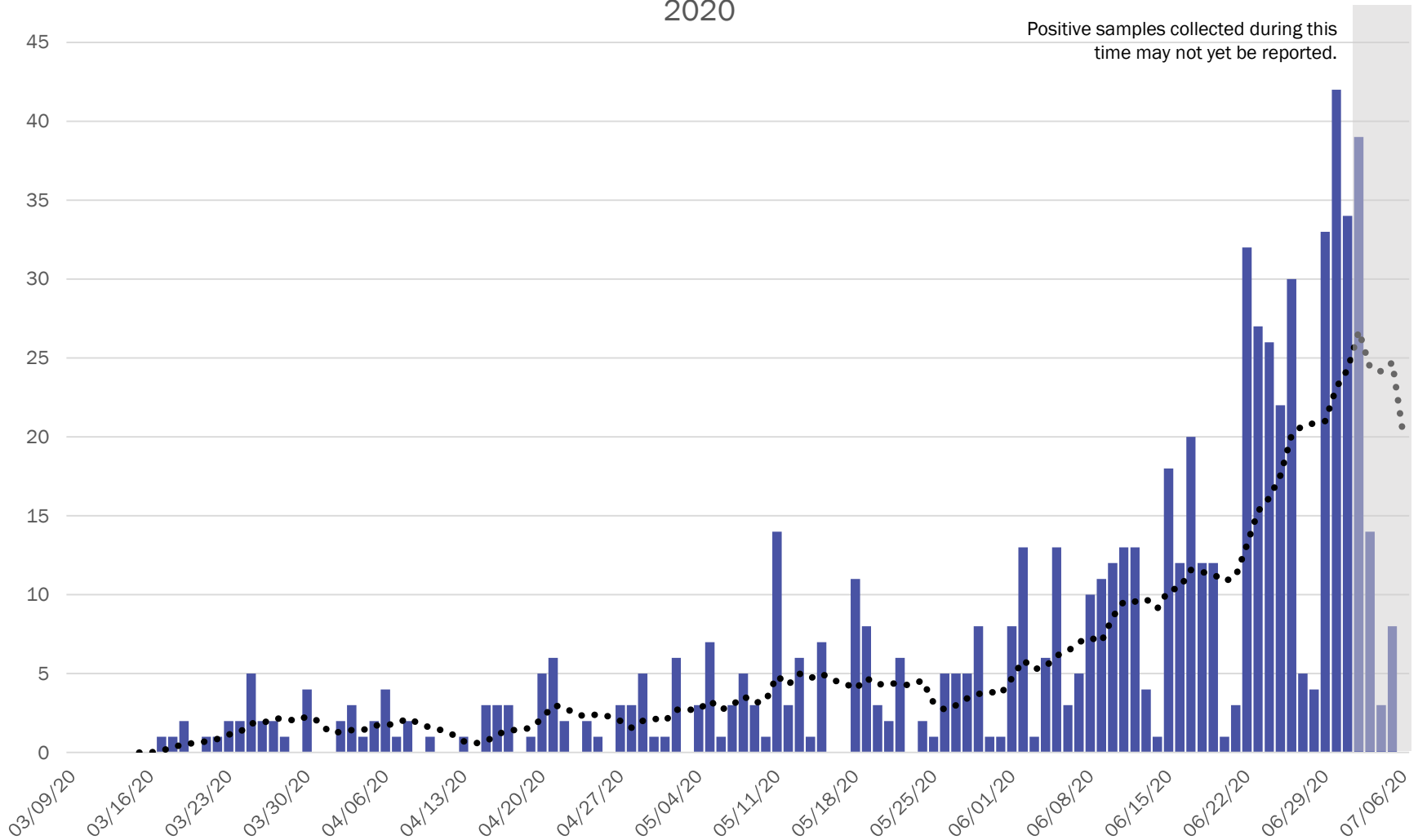
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 7.7.2020, New Mexico Department of Health.



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Southeast Region Case Count by Collection Date with 7 Day Moving Average – July 7, 2020



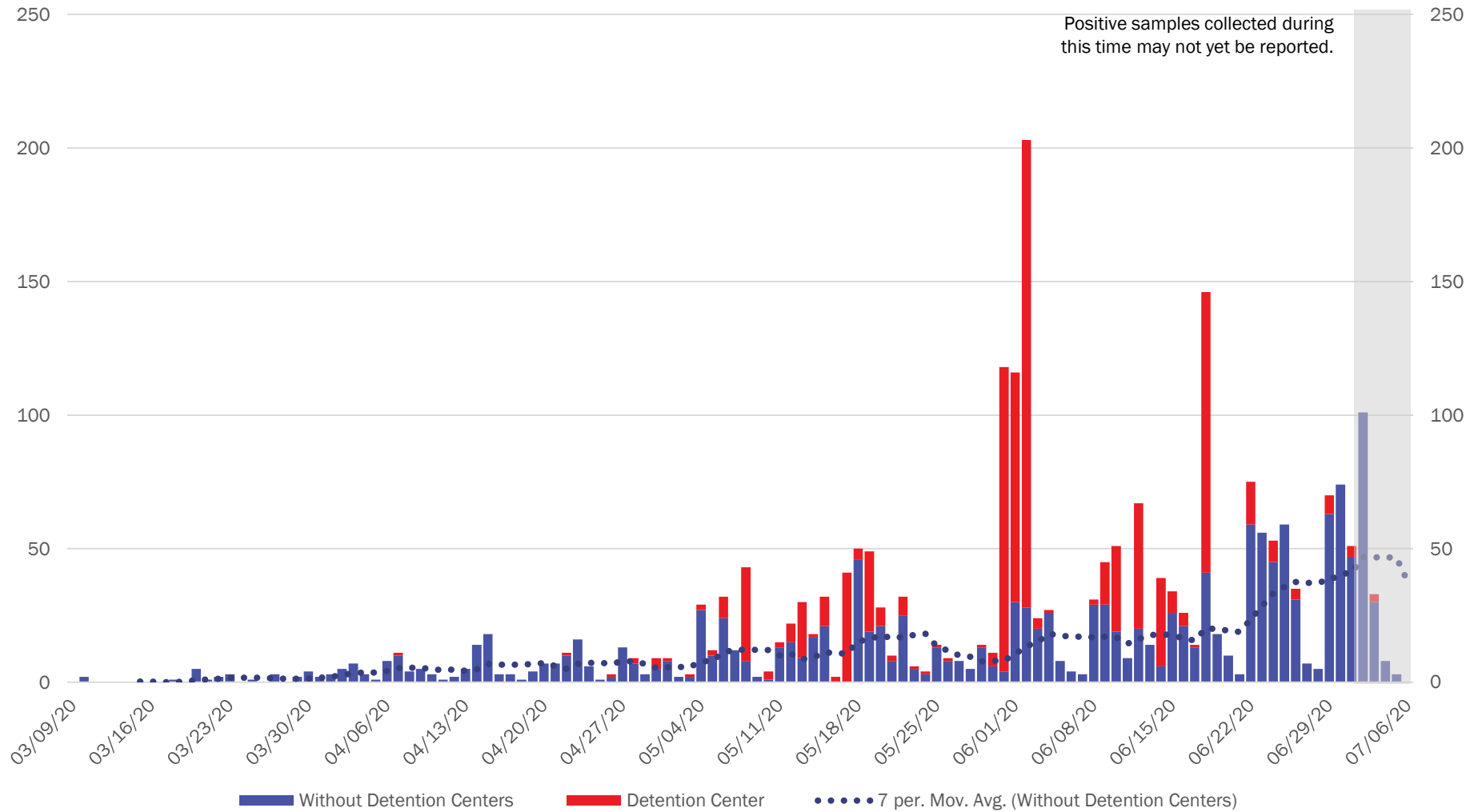
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 7.7.2020, New Mexico Department of Health.



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



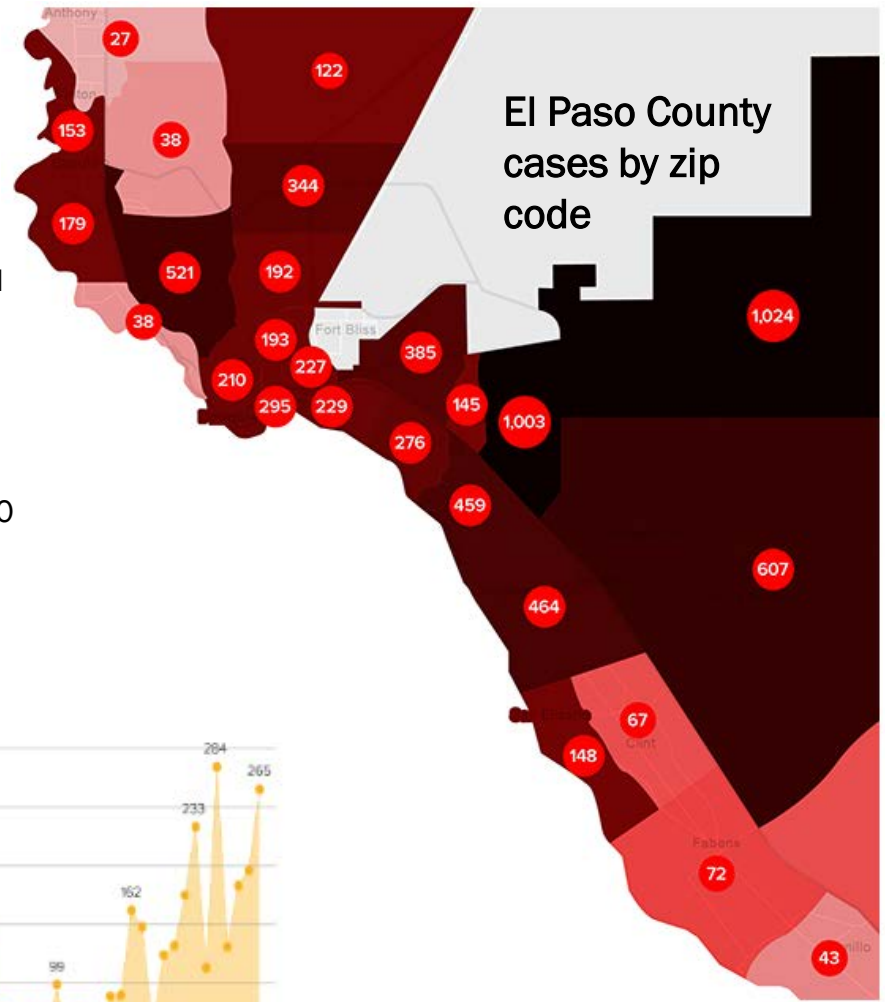
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 7.7.2020, New Mexico Department of Health.



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El Paso, TX has had a significant spike in cases over the last few weeks

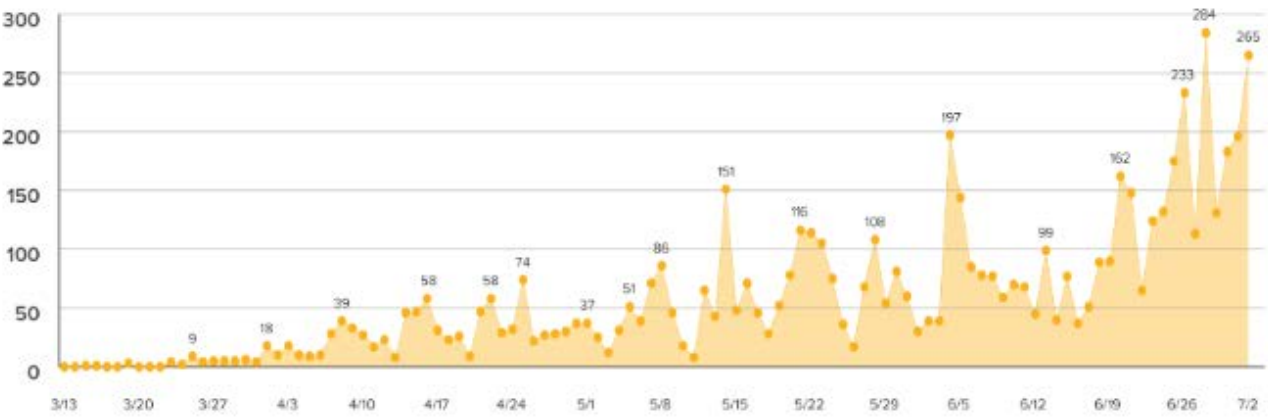
- Recent triple-digit spikes in daily cases: 248 on 7/6
 - Total cases: 7,461 of which 4,546 are recovered
 - Additional cases in existing clusters in a detention facility and an elderly care facility
 - 218 cases hospitalized of which 28 are on ventilators
- Effective 7/2, Governor Greg Abbott mandated face coverings
 - Commercial entity or other building or any public space
 - Attending a protest or demonstration involving more than 10 people.
 - In an outdoor space, face covering is required only if social distancing (6 ft) cannot be maintained.



El Paso County cases by zip code

>150 cases confirmed near the border with NM (as of July 5, 2020)

Day by day cases (as of July 2, 2020)



Source: <http://epstrong.org/results.php>

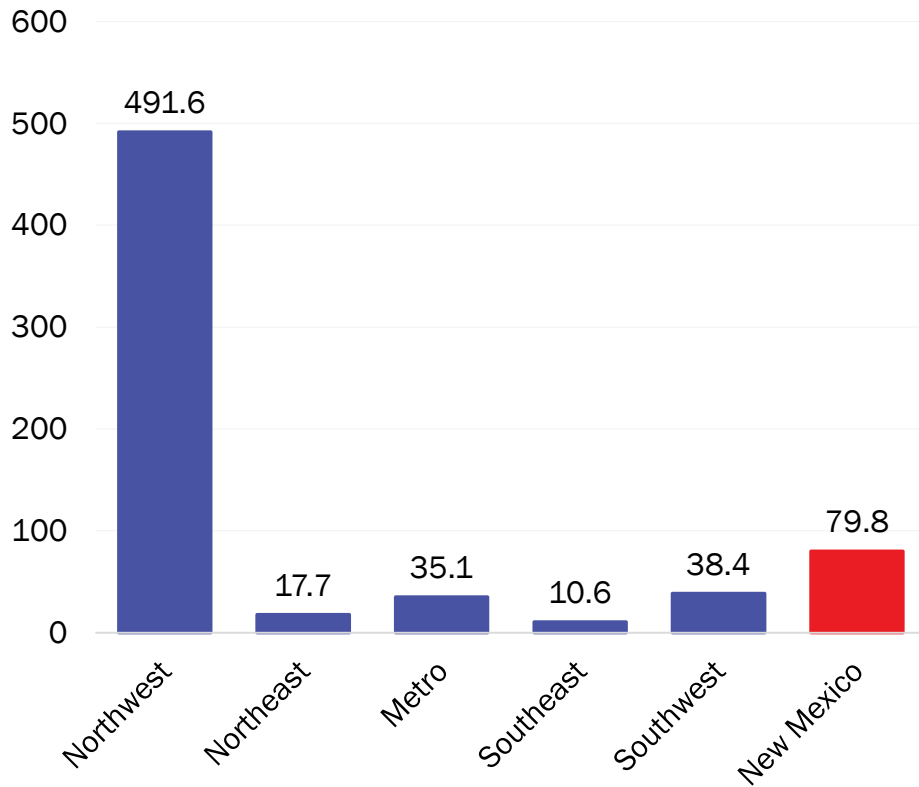


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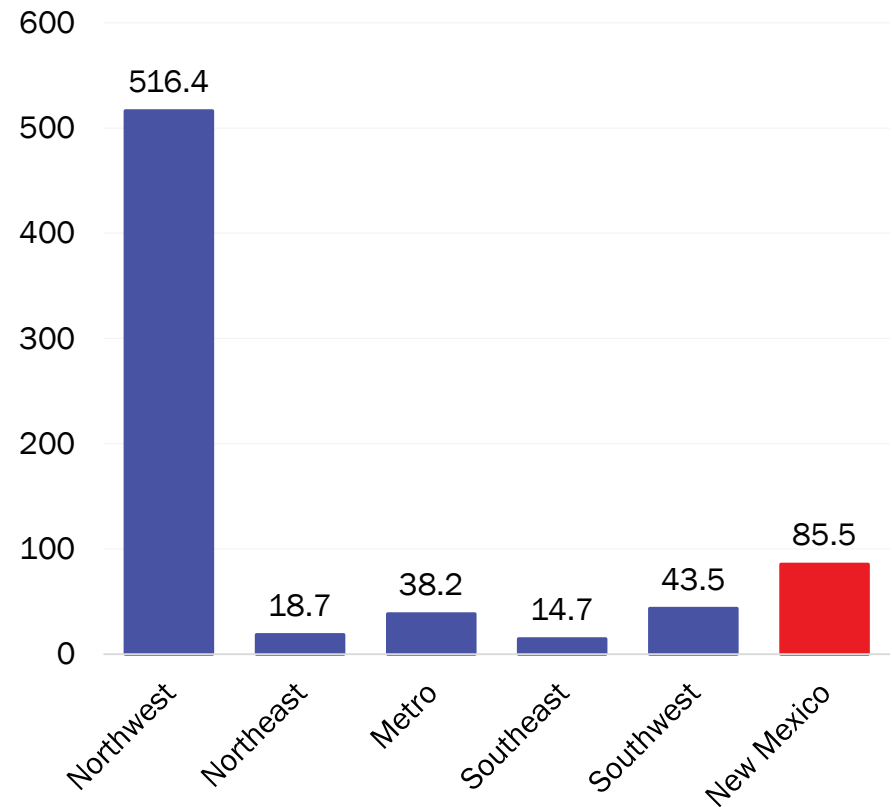


Hospitalization rates continue to increase across all regions with the largest increase in the NW

June 29, 2020

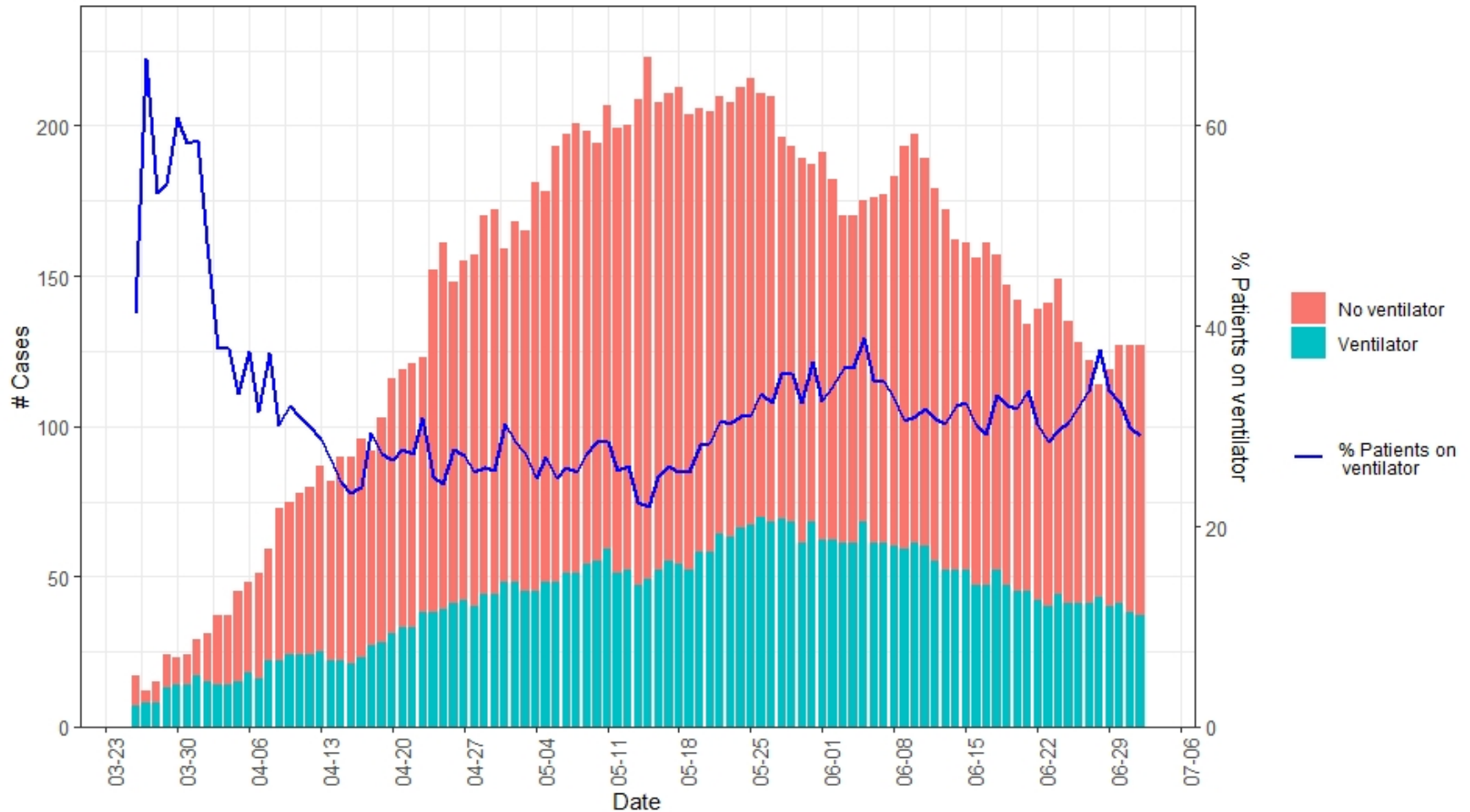


July 6, 2020



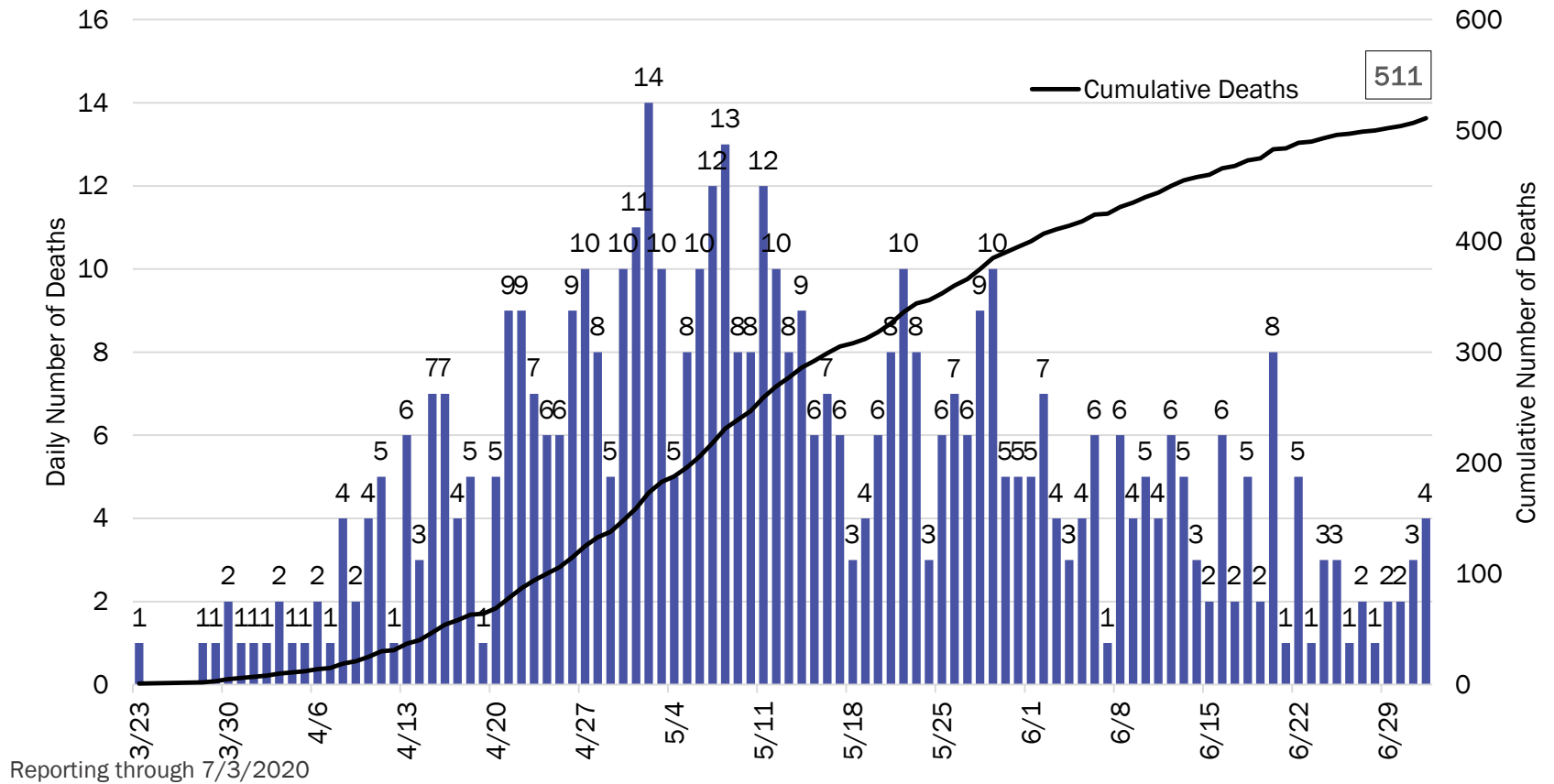
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 7.6.2020, New Mexico Department of Health. Population estimates, UNM Geospatial and Population Studies Program.

Hospitalizations are declining, and ventilator use remains ~30%

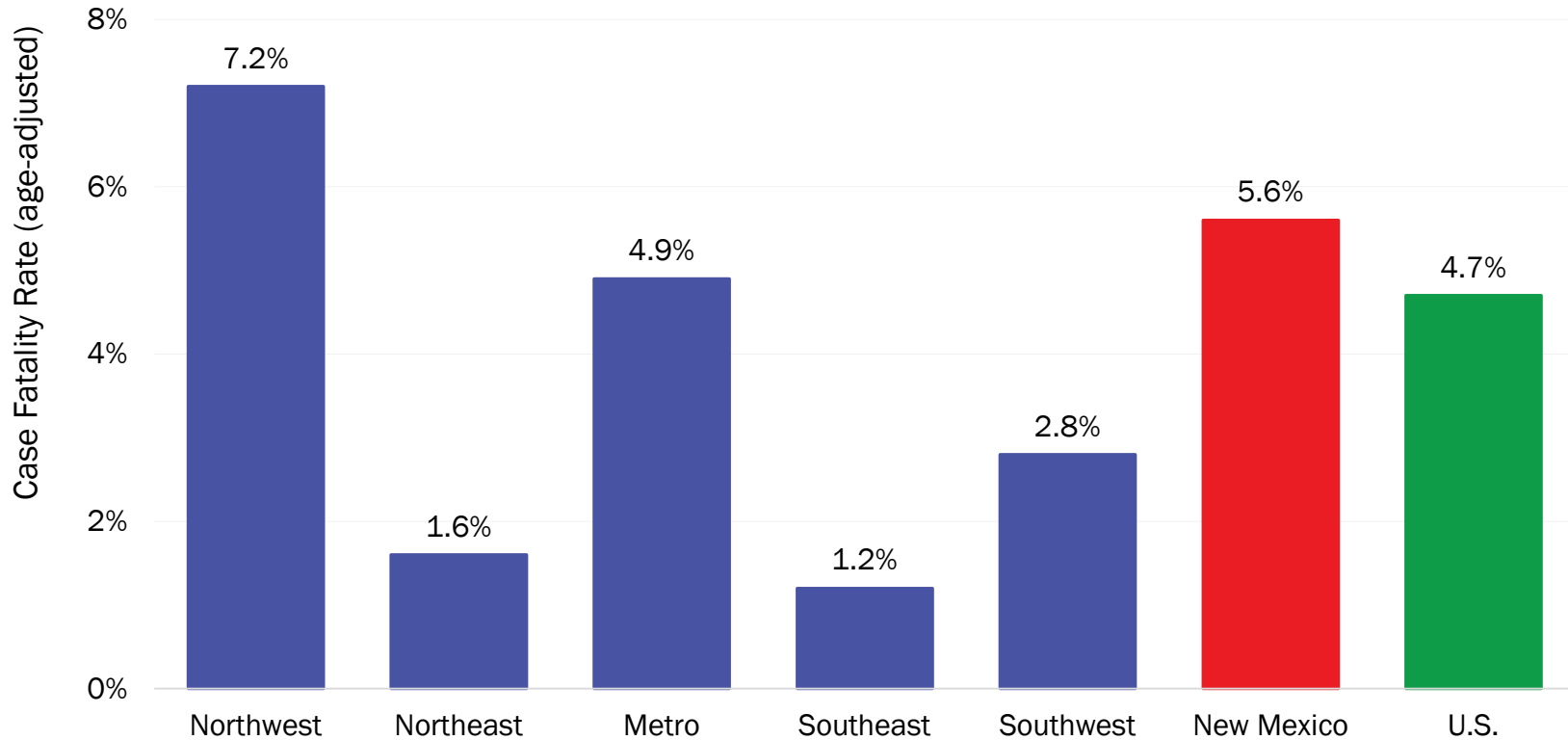


As of July 2, 2020

COVID-19 deaths are declining



Case fatality rates (CFR) across regions have changed minimally since last week



Rates have been age-adjusted to U.S. COVID-19 cases.

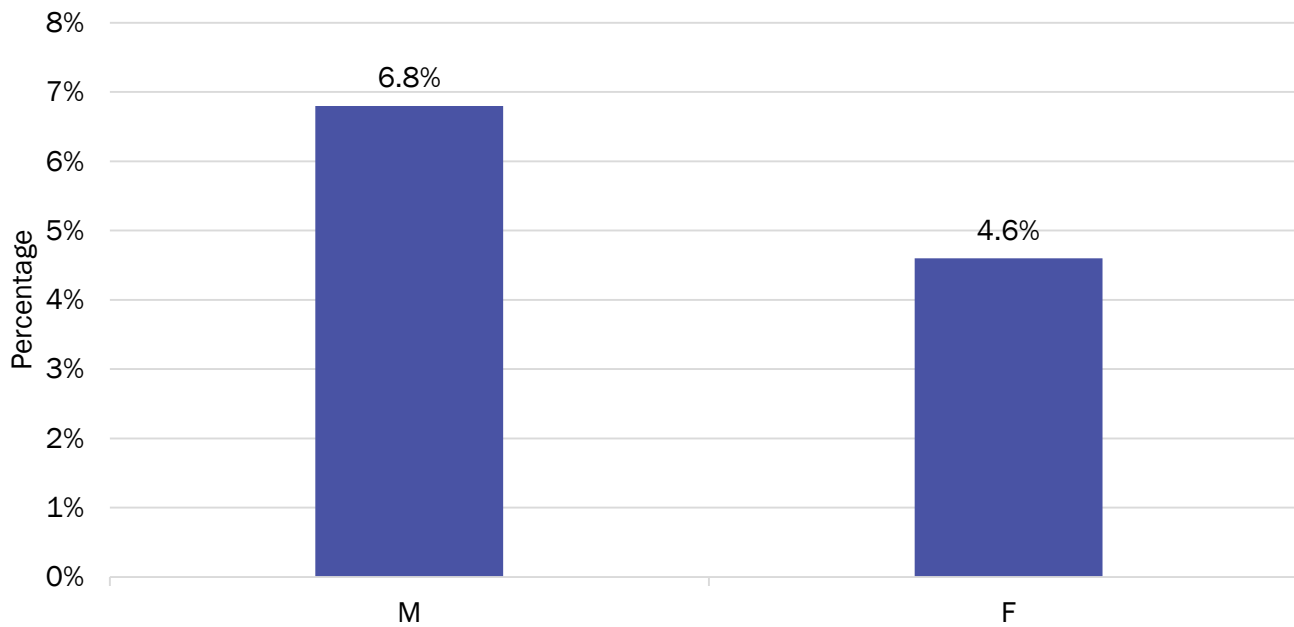
Source: Bureau of Vital Records and Health Statistics and Infectious Disease Epidemiology Bureau, Epidemiology and Response Division, reporting through 7.5.2020, New Mexico Department of Health.



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Male CFR continues to be greater than female CFR

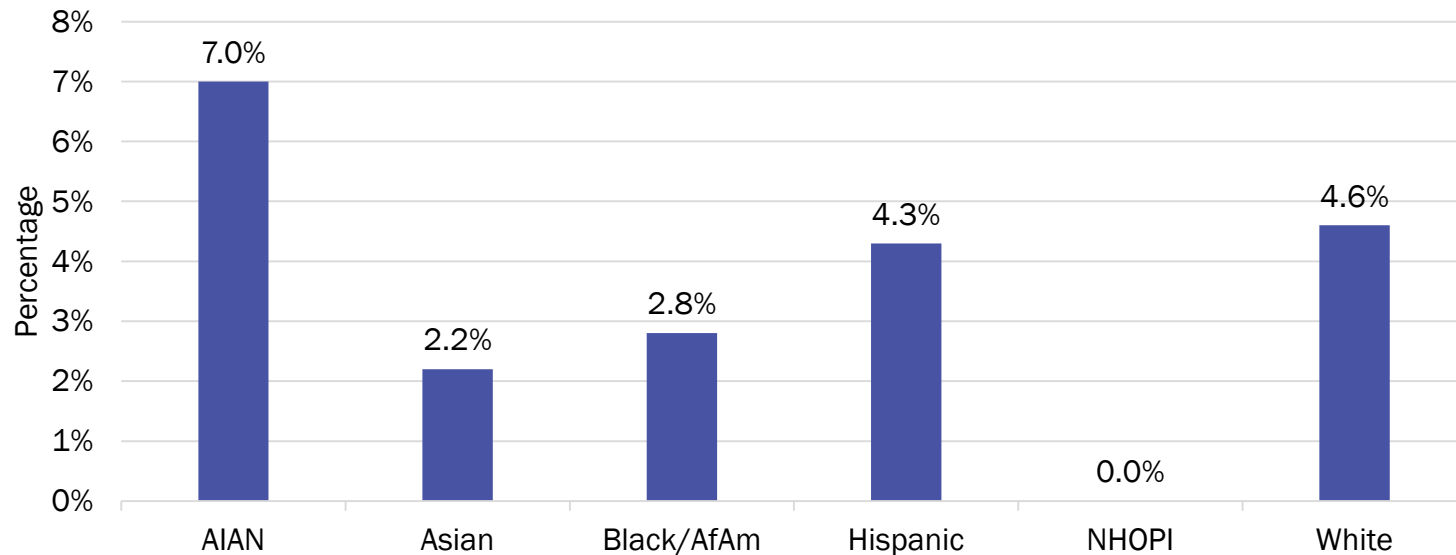
COVID-19 Age-Adjusted* Case Fatality Rate by Gender, New Mexico



Reporting through 7/3/2020; *Adjusted to U.S. COVID-19 cases.

COVID-19 deaths among those infected disproportionately affect the American Indian/Alaska Native population

COVID-19 Age-Adjusted* Case Fatality Rate by Race/Ethnicity, New Mexico

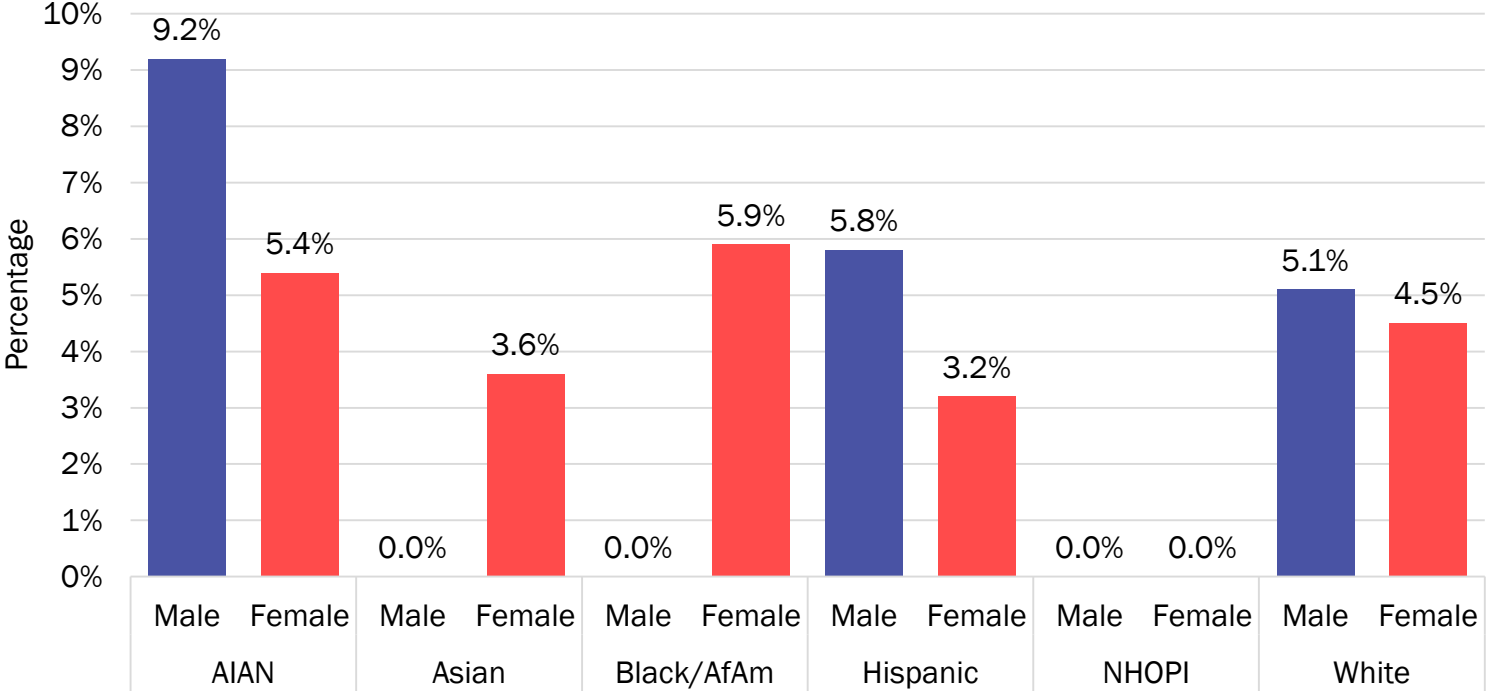


Reporting through 7/3/2020; *Adjusted to U.S. COVID-19 cases.

AIAN: American Indian/Alaskan Native

NHOPI: Native Hawaiian/Other Pacific Islander

Males have a higher CFR compared to females across most race/ethnicity groups



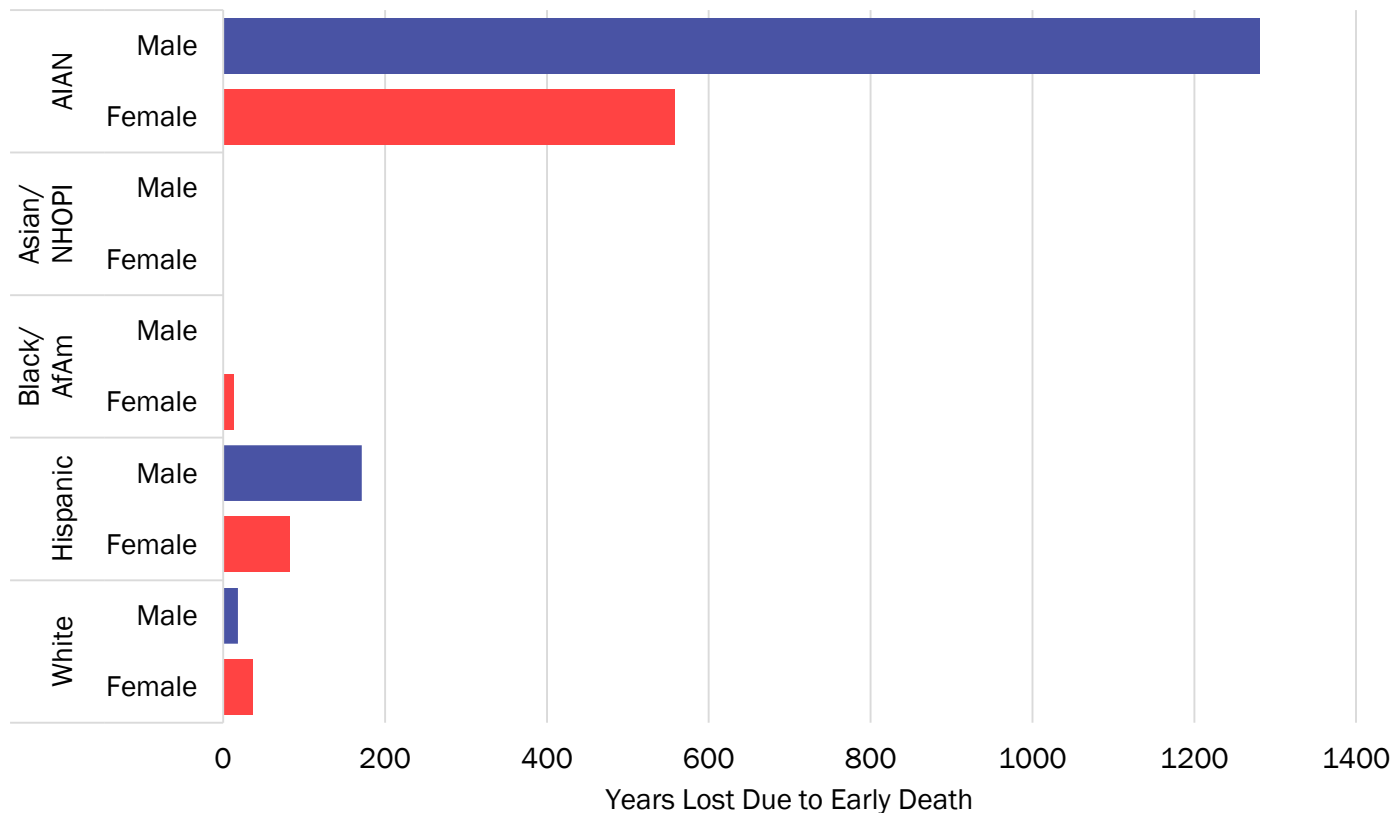
Reporting through 7/3/2020; *Adjusted to U.S. COVID-19 cases.
 AIAN: American Indian/Alaskan Native
 NHOPI: Native Hawaiian/Other Pacific Islander



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Males who self-identify as American Indian/Alaska Native or Hispanic have the greatest years of potential life lost (YPLL) before age 65. Male YPLL is higher than that of their female counterparts within these two race/ethnicity groups.



Reporting through 7/3/2020

AIAN: American Indian/Alaskan Native

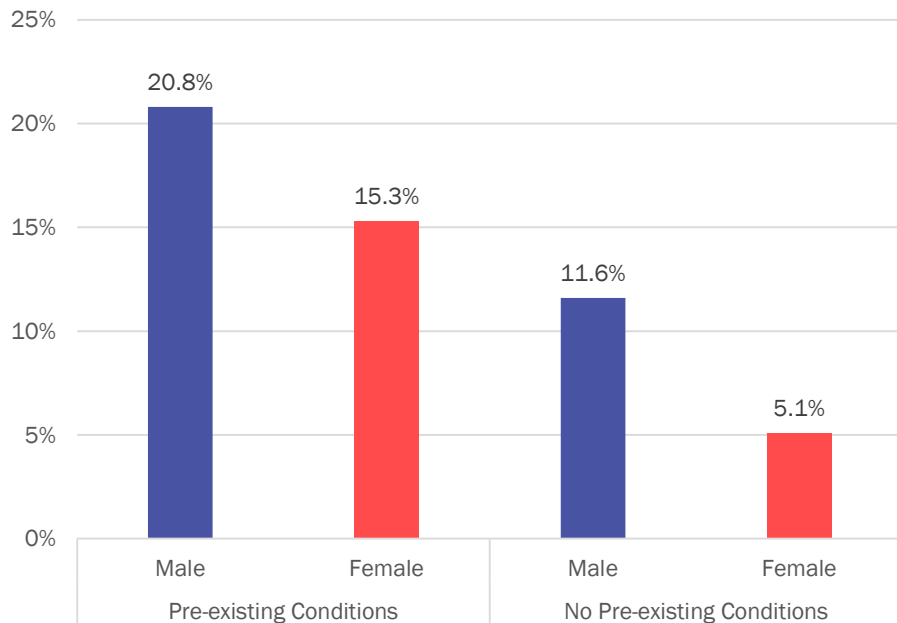
NHOPI: Native Hawaiian/Other Pacific Islander



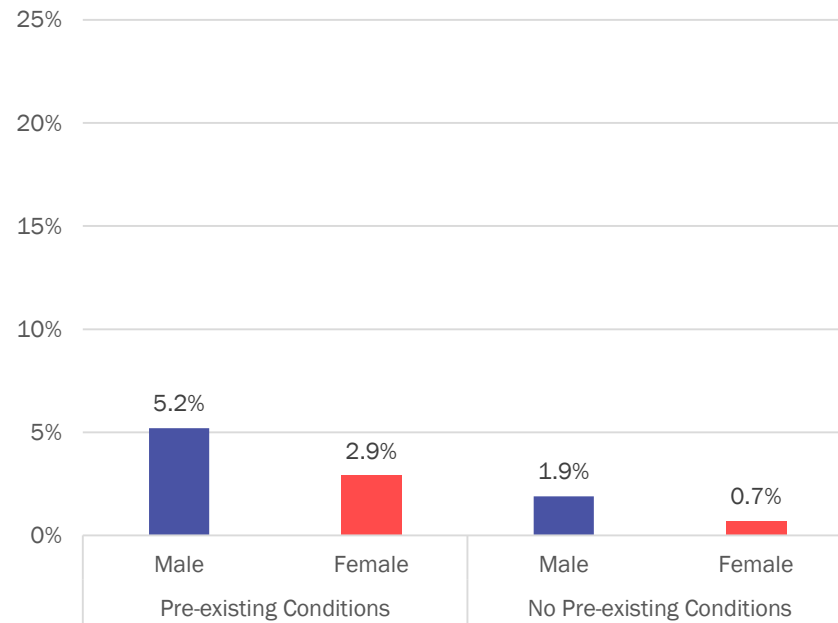
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Higher CFRs for cases with pre-existing conditions and is exacerbated if hospitalized. Sex differences indicate high rates in males compared to females regardless of pre-existing conditions.



Hospitalized



Not Hospitalized

New Mexico Status Updates

- Case count: Statewide, daily case counts are increasing.
- Hospitalizations: For the past three weeks, hospitalizations have declined.
- Deaths: Deaths have been steadily declining since mid-May.
- Social distancing: Cell phone data suggests the mobility of New Mexico is on the rise and, in some counties, is reaching pre-pandemic levels.
- Contact tracing: The median time to quarantine for contacts identified last week was 2 days.

Supplementary Slides

Modeling Assumptions

Variable	Measured Value	Value as of 6.29.20
R_Effective	Actual Measured Daily Value by key county	R_eff=1.21
Positive Test Multiplier	Calculated by LANL	4.1
Hospitalization and Mortality	Actual rolling value / estimated number of total infected	Medical 0.2% ICU 0.2% Vent Rate 63.5% of ICU Crude Case Fatality Rate 4.1%
Length of Stay	Actual rolling value / estimated number of total infected	Medical 5 days ICU 14 days ICU on Vent 14 days