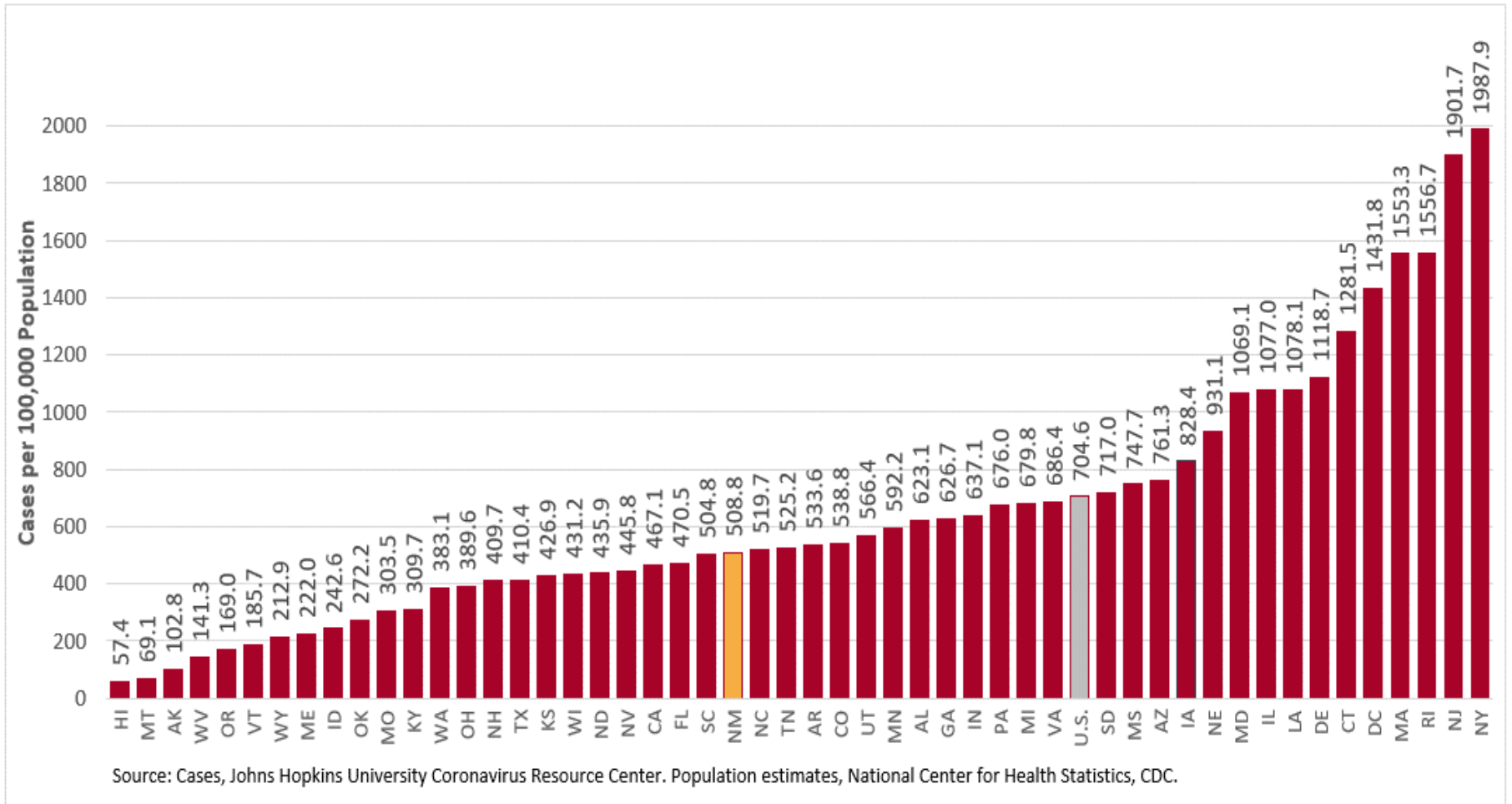


COVID-19 in New Mexico: Epidemiologic and Modeling Update

June 23, 2020

Prevalence: COVID-19 cases per 100,000 by U.S. states

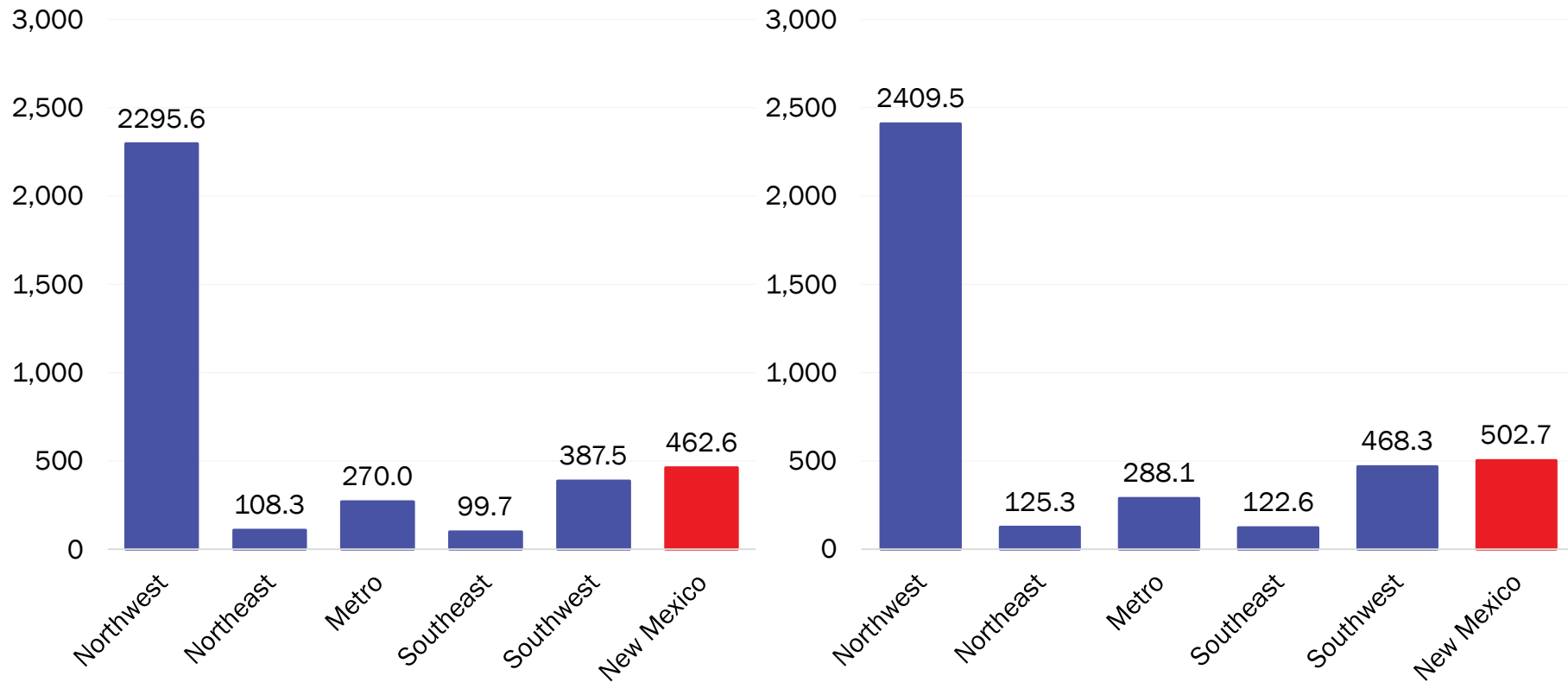


As of June 23, 2020

Prevalence Rate: Number of COVID-19 cases per 100,000 population

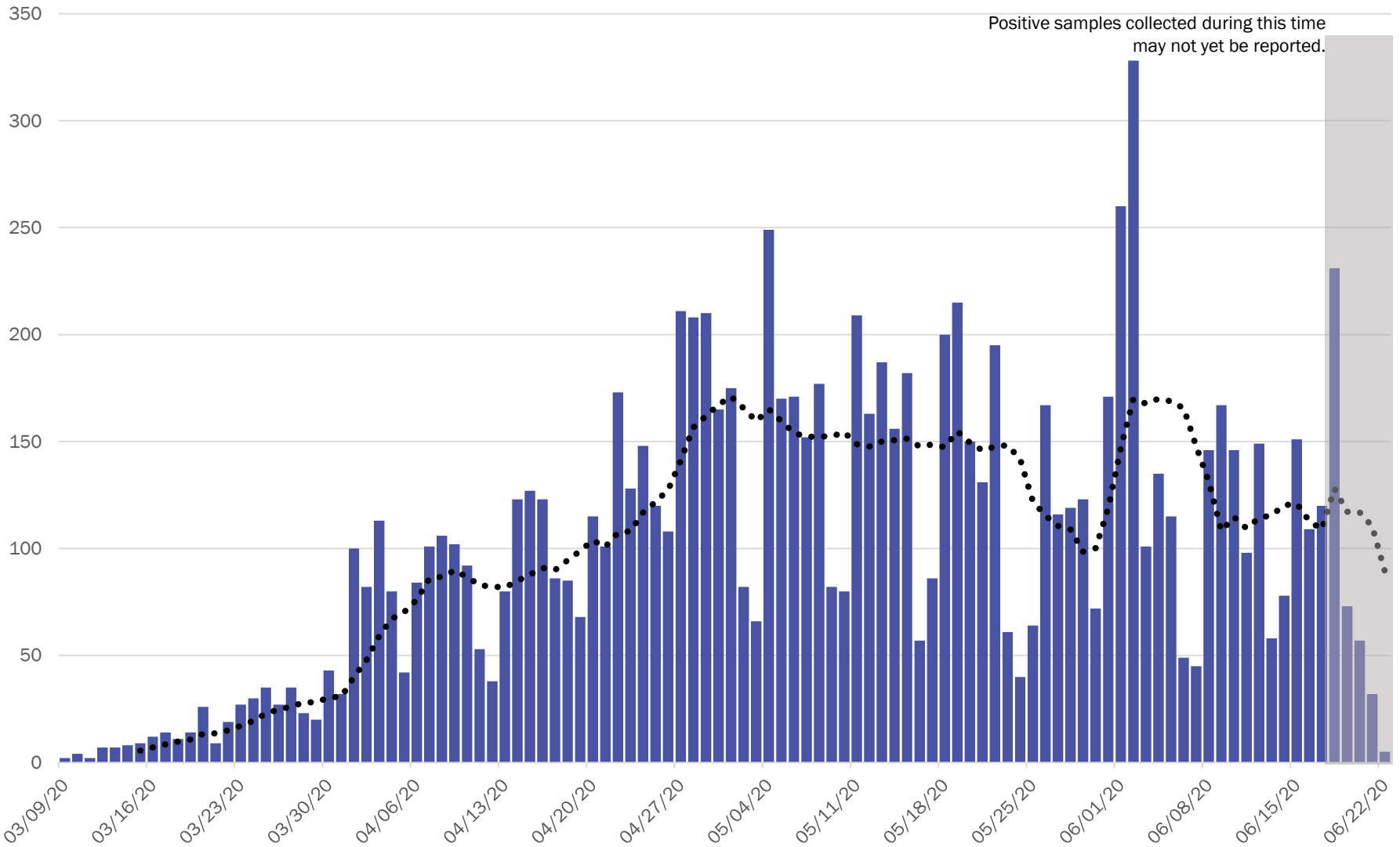
June 14, 2020

June 22, 2020



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 6.22.2020, New Mexico Department of Health. Population estimates, UNM Geospatial and Population Studies Program.

New Mexico COVID-19 Cases by Date of Specimen Collection - 6/23/20

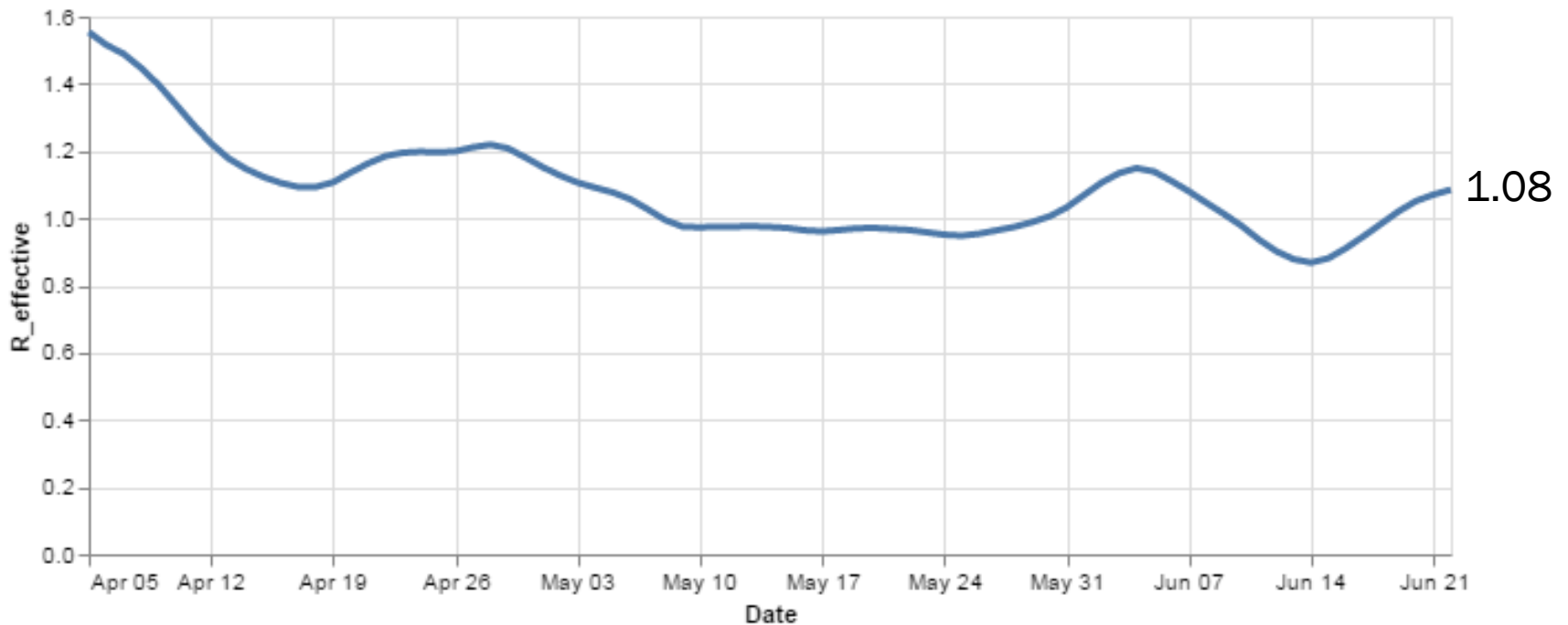


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Statewide R-effective has increased over the past week.

R_effective over time, state



1.08

Courtesy of Presbyterian Healthcare Services – June 23, 2020.



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Key (Gating Target: 1.05)

- Low Level Endemic
- Approaching Low Level Endemic
- Requiring further mitigation

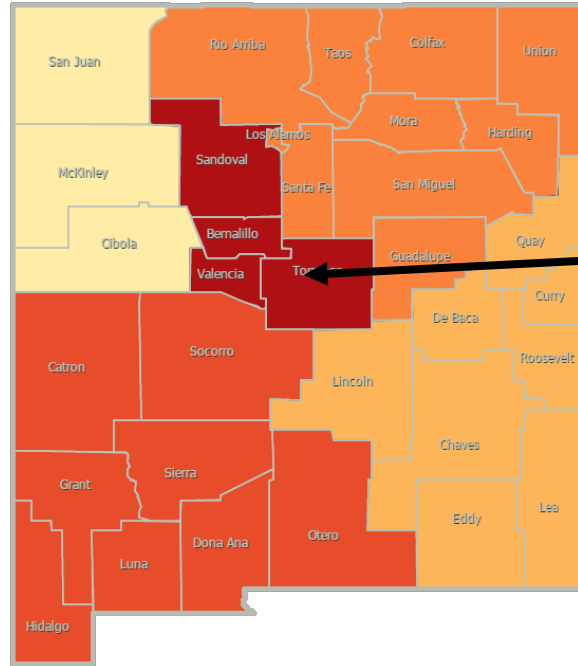
Northwest
 $R_{\text{effective}}$ 0.97 ↑

Northeast
 $R_{\text{effective}}$ 1.34 ↑

Central
 $R_{\text{effective}}$ 1.03 ↓

Southwest
 $R_{\text{effective}}$ 1.27 ↑

Southeast
 $R_{\text{effective}}$ 1.17 ↑



As of June 16, 2020

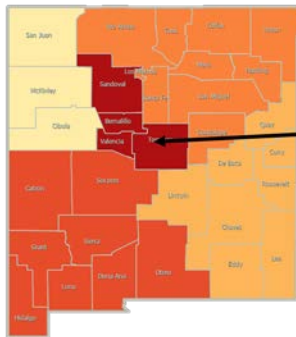
Northwest
 $R_{\text{effective}}$ 0.78

Northeast
 $R_{\text{effective}}$ 1.12

Central
 $R_{\text{effective}}$ 1.06

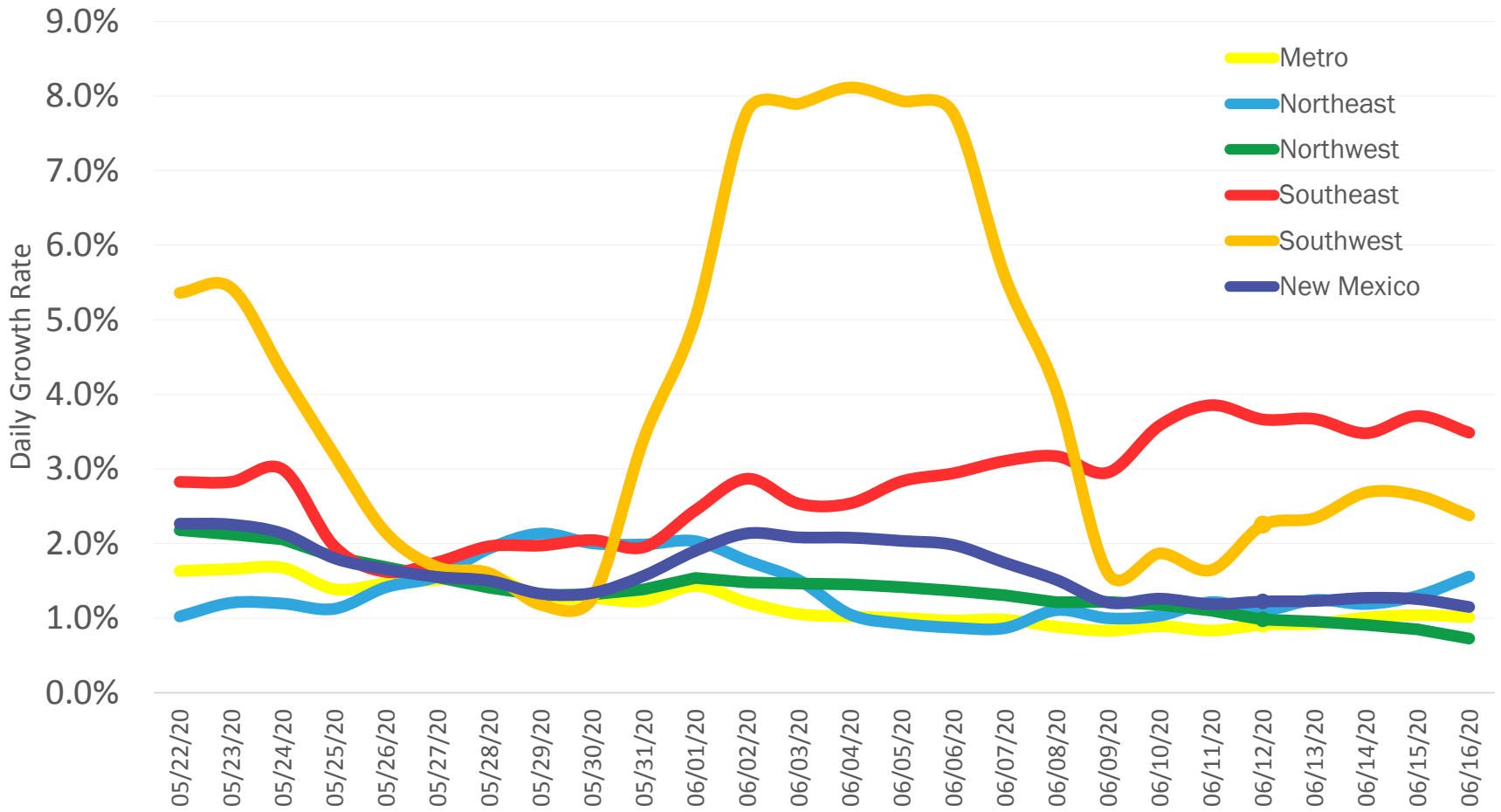
Southwest
 $R_{\text{effective}}$ 0.92

Southeast
 $R_{\text{effective}}$ 1.07



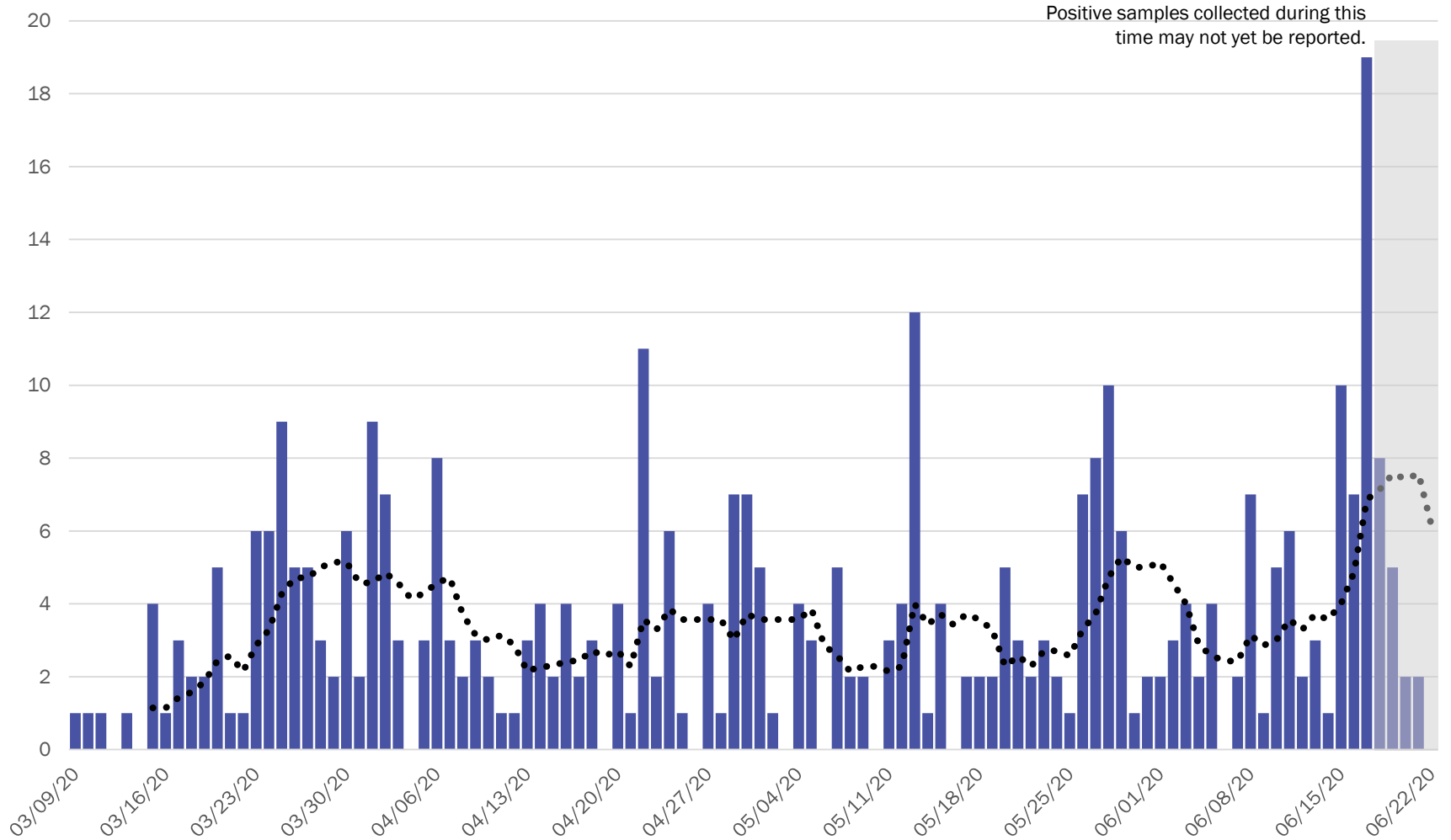
Courtesy of Presbyterian Healthcare Services – June 23, 2020.

Daily rate of growth of COVID-19 cases 7-day rolling average by region - 6/22/20

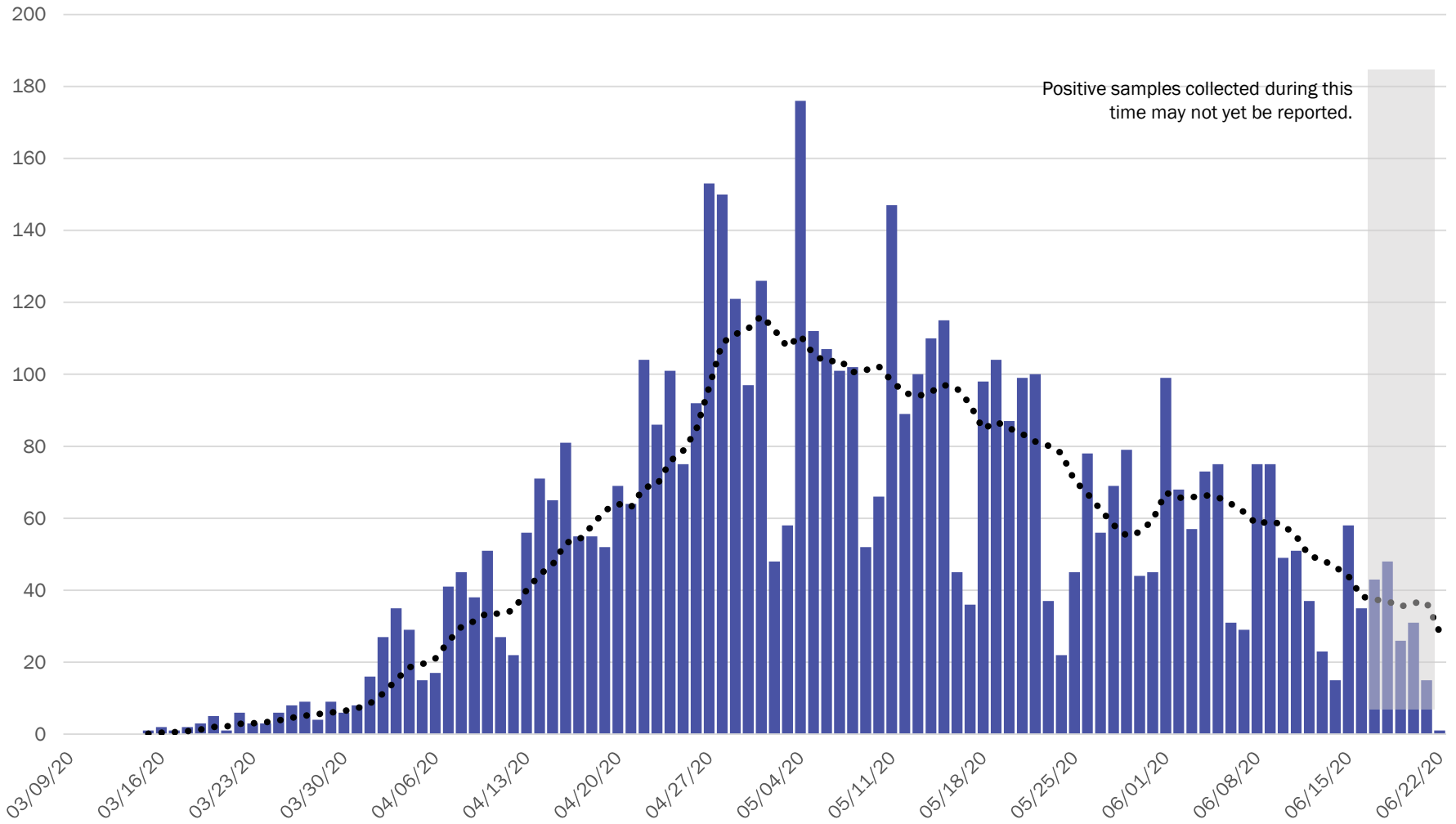


Northeast Region Case Count by Collection Date with 7 Day Moving Average

June 23, 2020

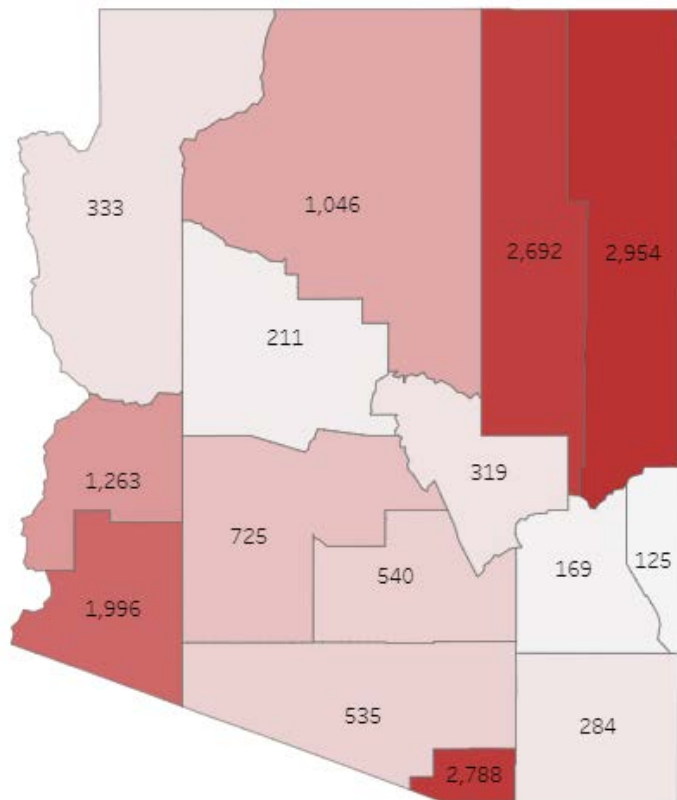


Northwest Region Case Count by Collection Date with 7 Day Moving Average June 23, 2020



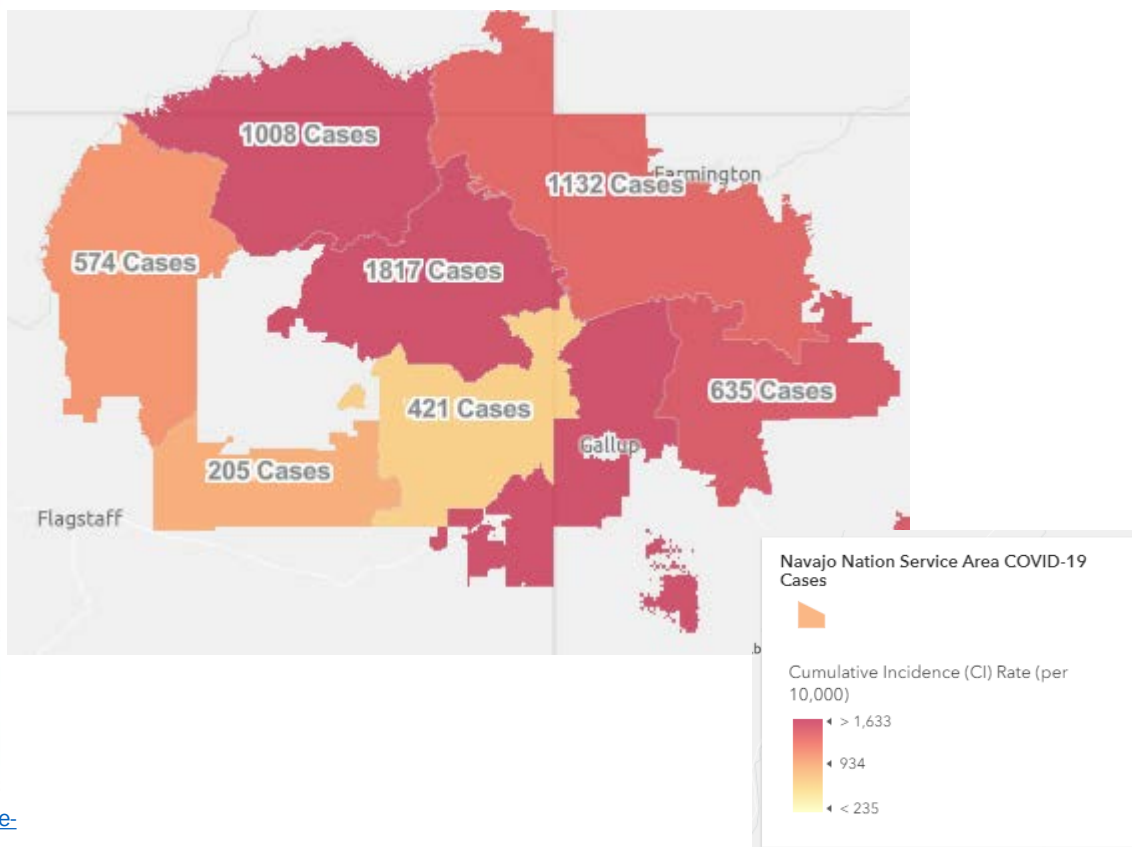
The areas with the largest burden of disease in AZ also border the NW region in NM

AZ cases per 100,000 population
(as of 6/22/2020)



Source: <https://www.azdhs.gov/preparedness/epidemiology-disease-control/infectious-disease-epidemiology/covid-19/dashboards/index.php>

Navajo Nation Service Area
Cumulative incidence rate per 10,000
(as of 6/20/2020)

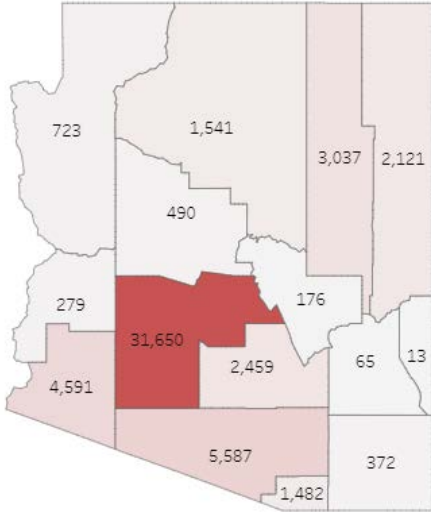


Source: <https://navajo-nation-coronavirus-response-ndoh-nec.hub.arcgis.com/>

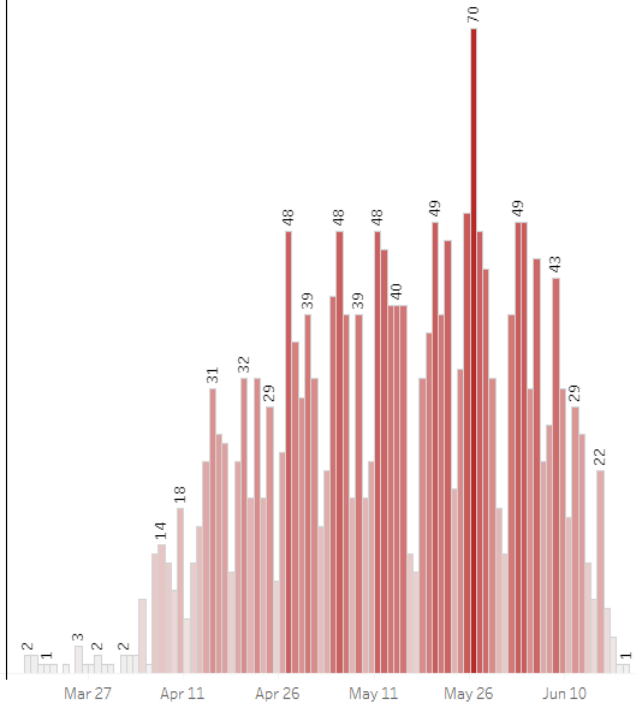
Case counts in Apache County may be decreasing, while Navajo County is increasing (as of June 22, 2020)

Note: Illness in the last 4-7 days may not be reported yet

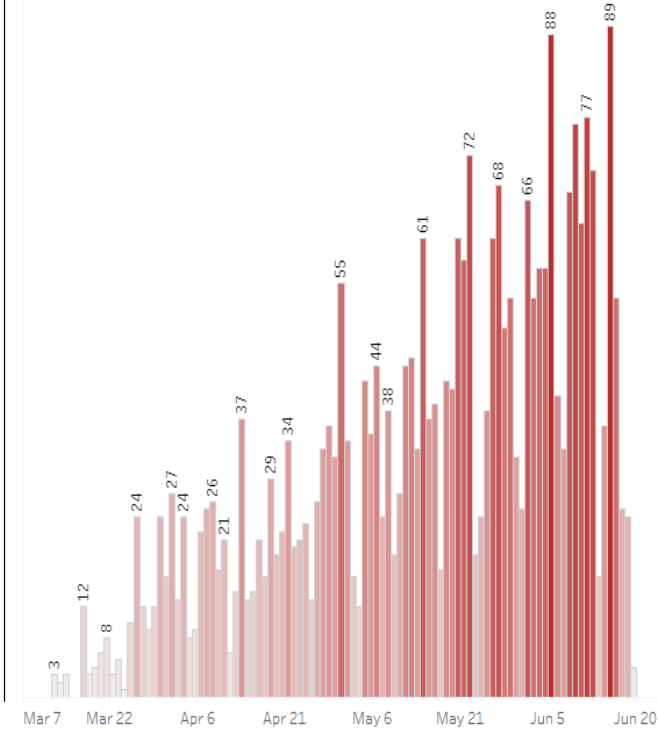
Arizona



Apache County (n=2,121)



Navajo County (n=3,037)



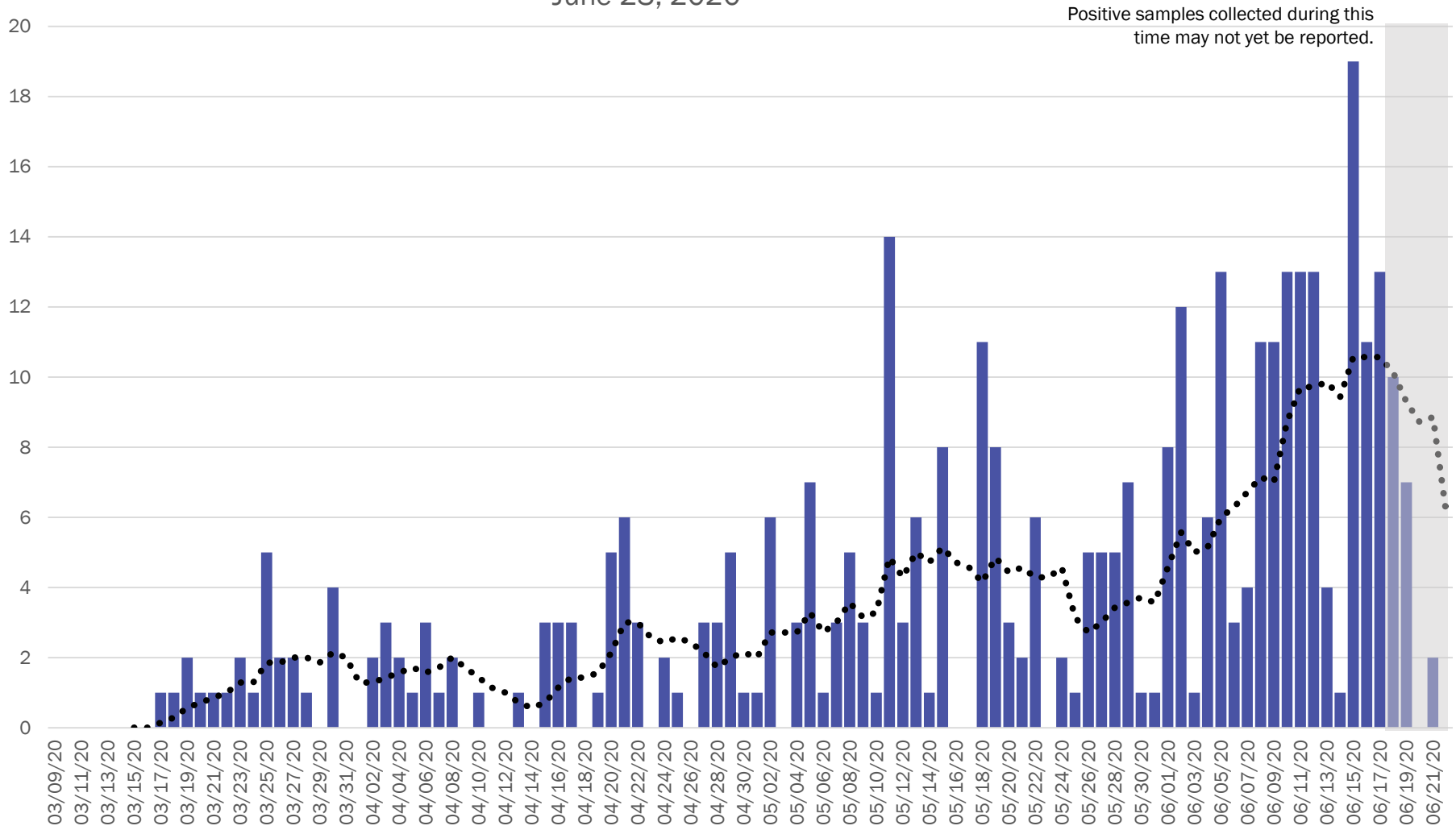
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Source: <https://www.azdhs.gov/preparedness/epidemiology-disease-control/infectious-disease-epidemiology/covid-19/dashboards/index.php>

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

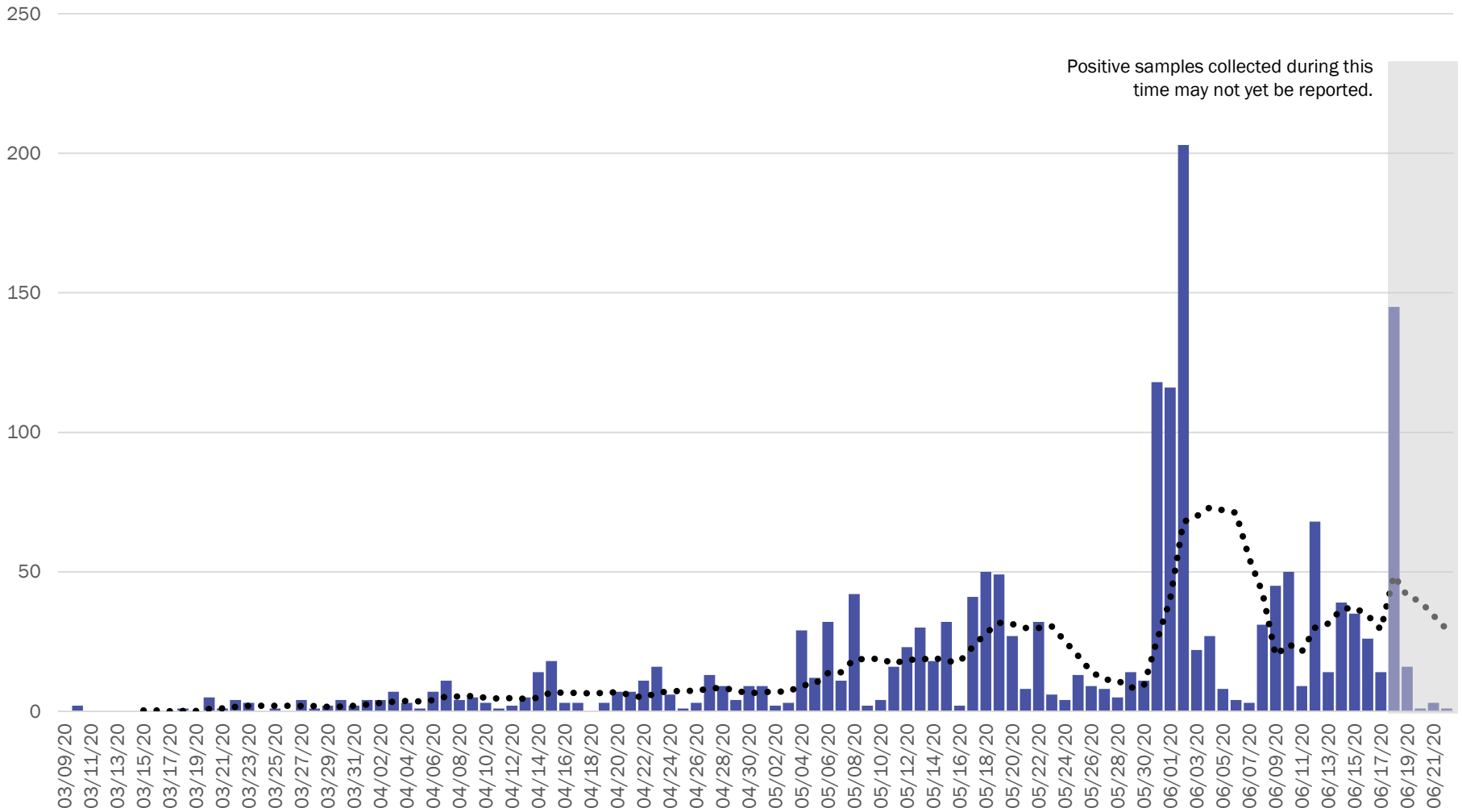
June 23, 2020



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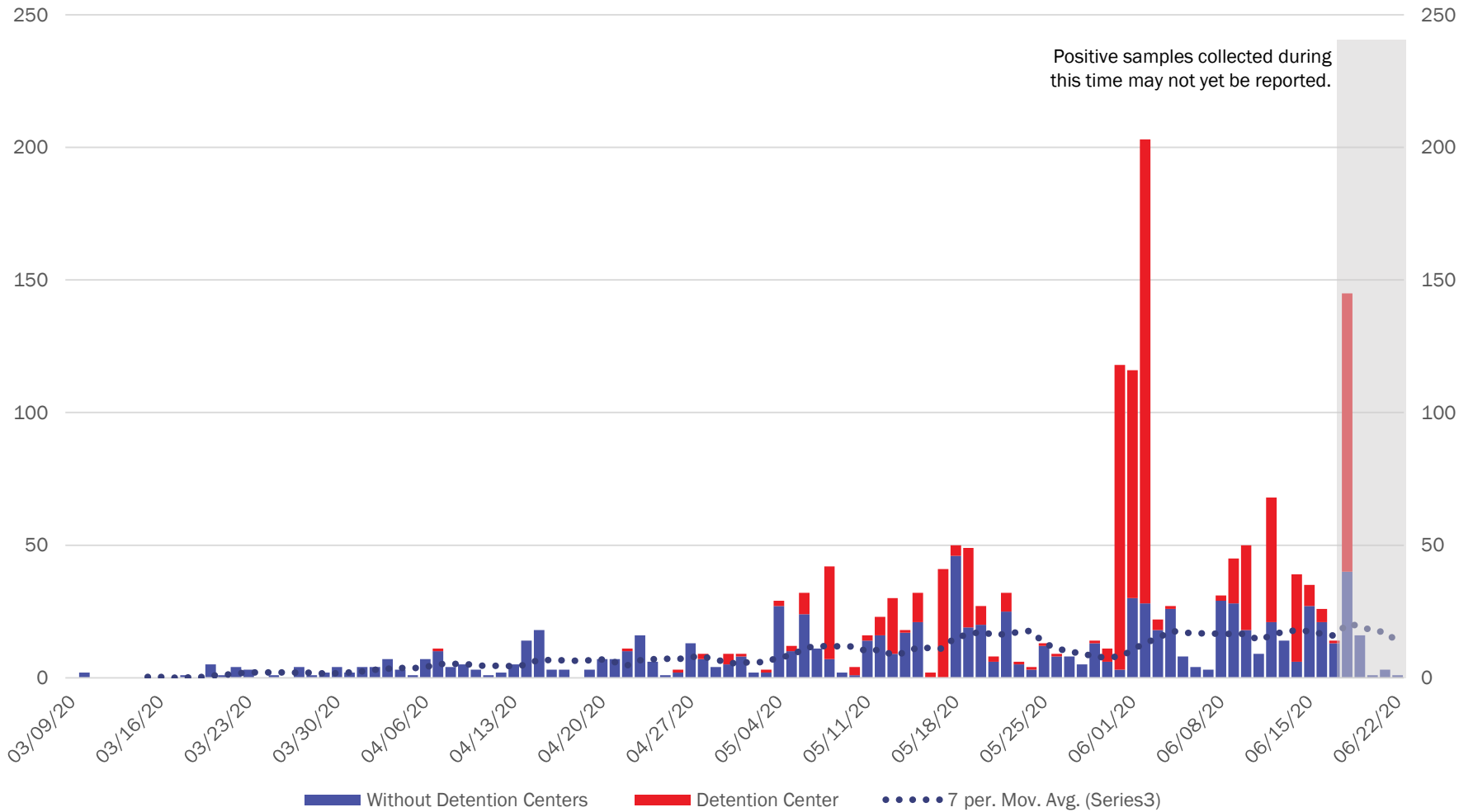


Southwest Region Case Count by Collection Date with 7 Day Moving Average – June 23, 2020



Detention Center Impact: Southwest Case Count by Collection Date

6/23/2020



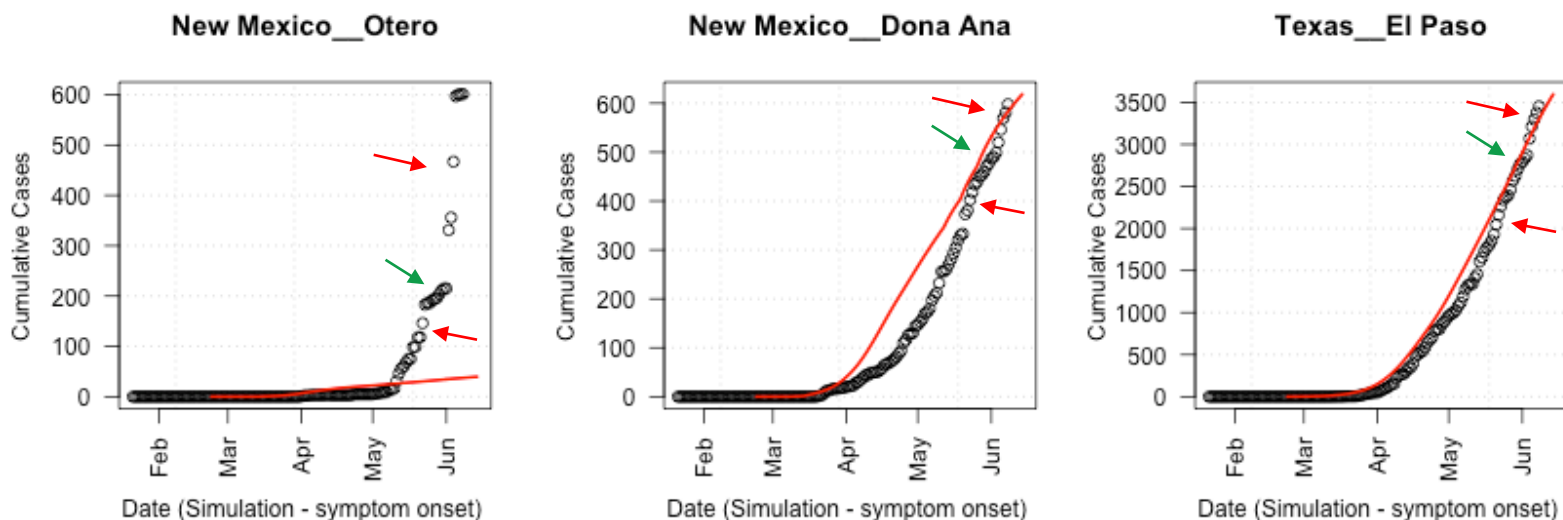
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Doña Ana, Otero, and El Paso

- Otero: ~30 cases in the community; black circles include detained/incarcerated people.
- Doña Ana: modeled with “imported” cases occurring from mid to late May.
- Increases in ‘incarcerated’ cases correlate with case increases in Doña Ana and El Paso.

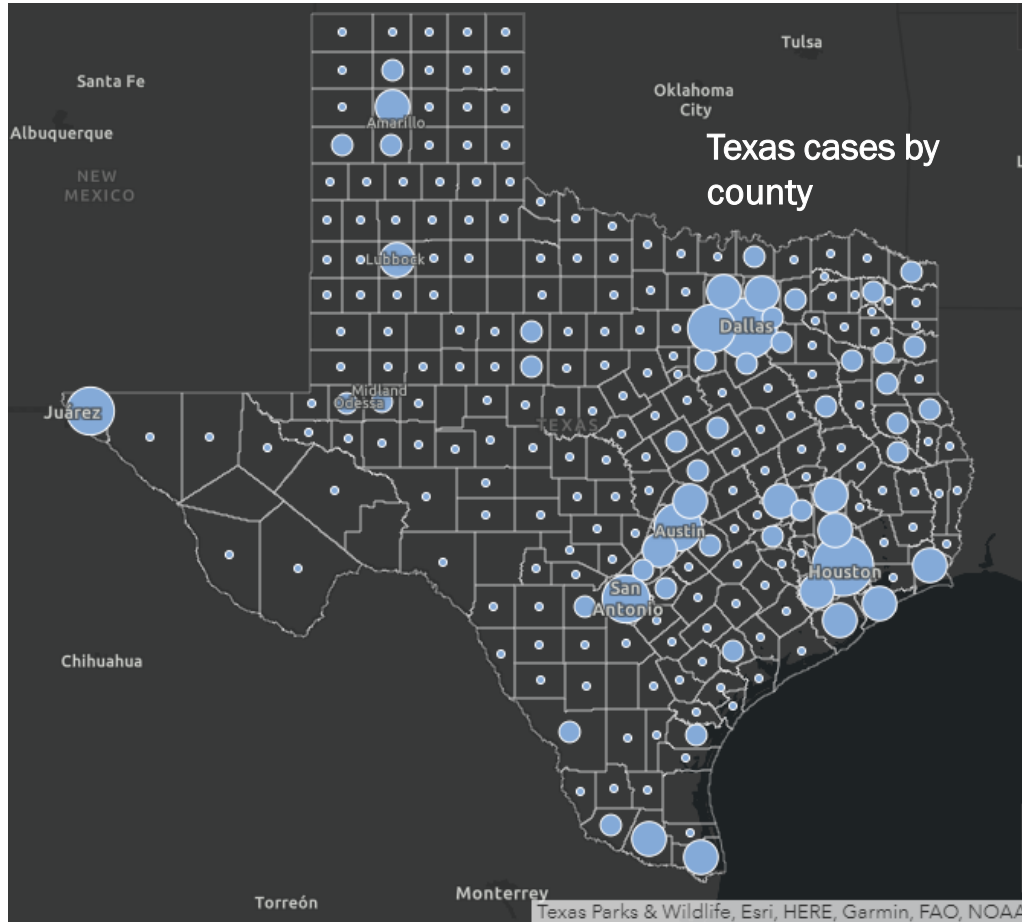
Red line – simulation; Black circles – reported cases



Courtesy of Los Alamos National Laboratory – June 18, 2020.



El Paso County has the 6th highest number of cases in Texas: 4,488 (as of 6/21/2020)



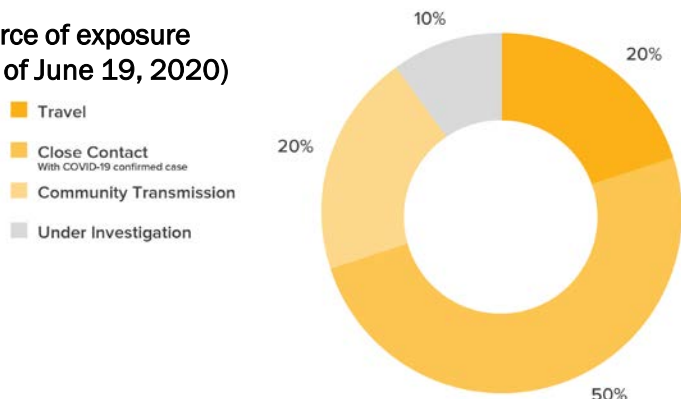
COVID-19 in El Paso, TX

Total cases	4,488
Active cases	1,045
Recoveries	3,175
Fatalities	120

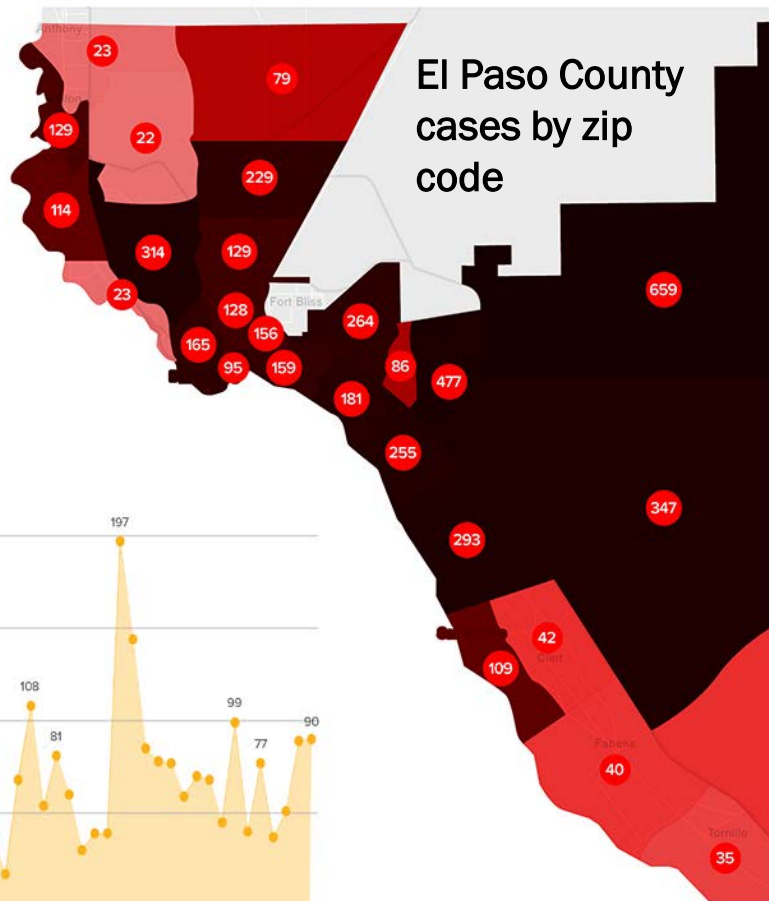
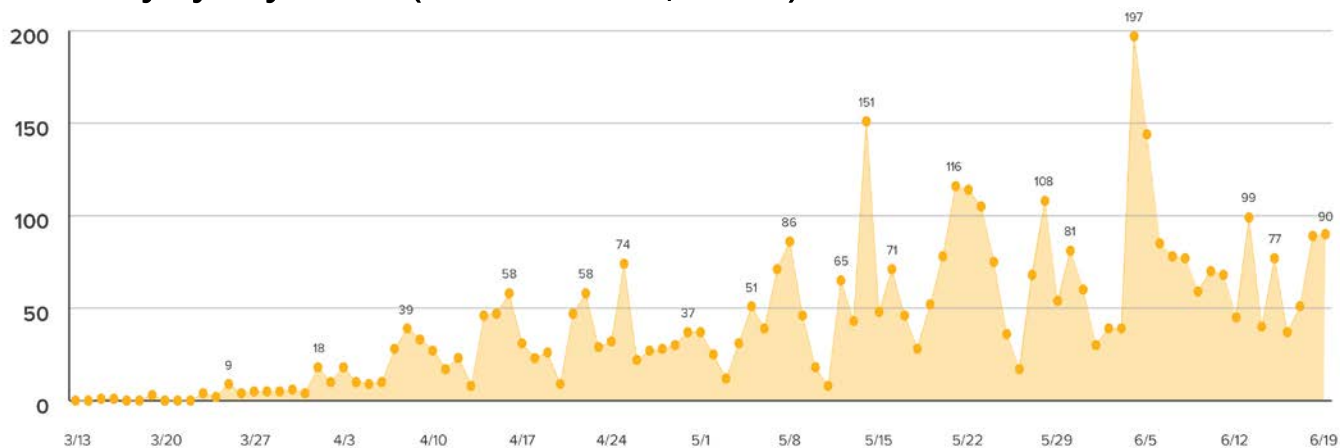
Source: <https://txdshs.maps.arcgis.com/apps/opsdashboard/index.html#/ed483ecd702b4298ab01e8b9cafc8b83>

Number of cases in El Paso, TX peaked and began to decline in early June, but may be increasing again

Source of exposure (as of June 19, 2020)



Day by day cases (as of June 19, 2020)



>100 cases confirmed near the border with NM (as of June 21, 2020)

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

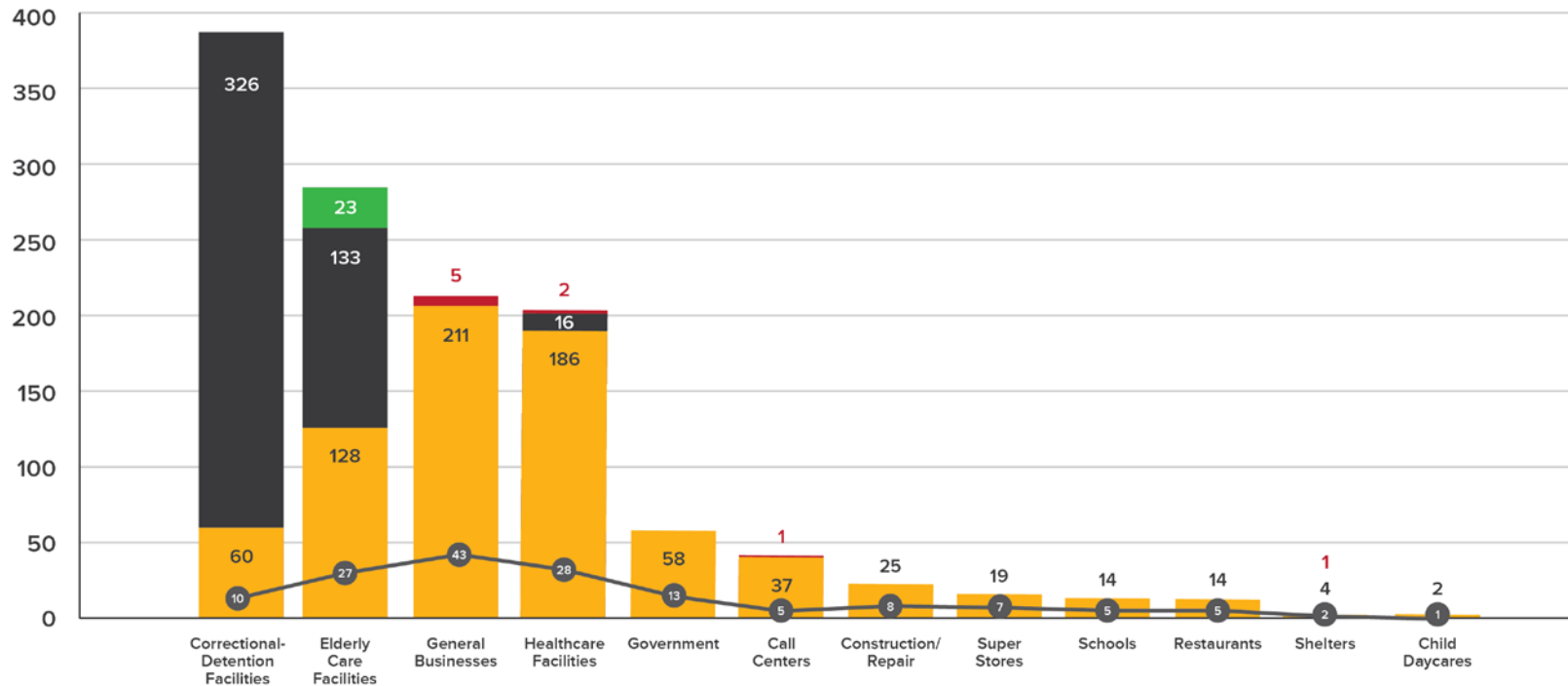
A majority of the clusters in El Paso, TX have been associated with correctional-detention facilities (as of June 12, 2020)



COVID-19 CLUSTERS REPORT

AS OF JUNE 12, 2020

■ Staff
 ■ Residents
 ■ Resident Deaths
 ■ Staff Deaths
 —●— Number of Clusters

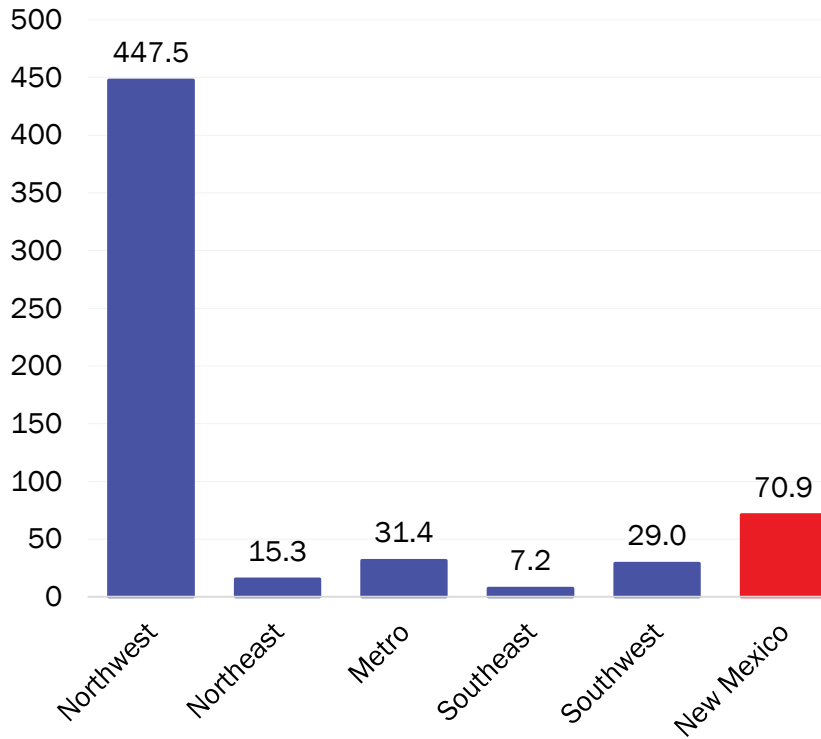


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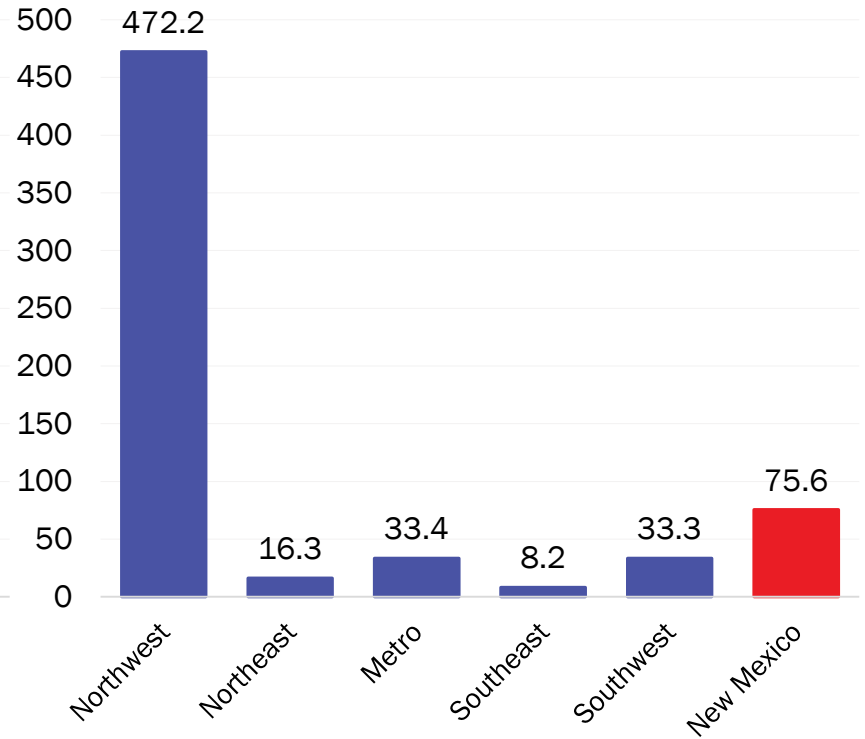
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Hospitalization Rate: Number of COVID-19 cases per 100,000 population

June 15, 2020

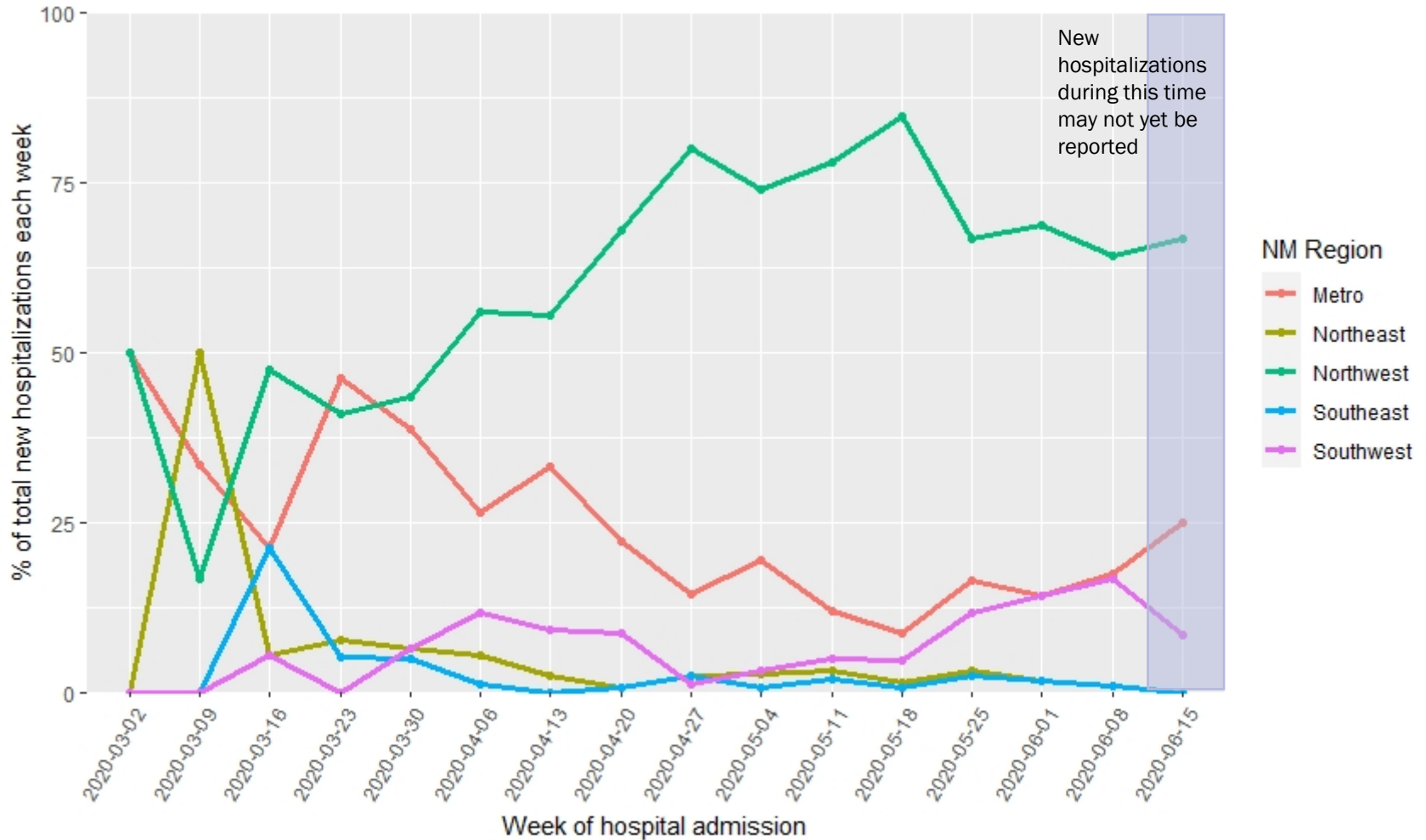


June 22, 2020

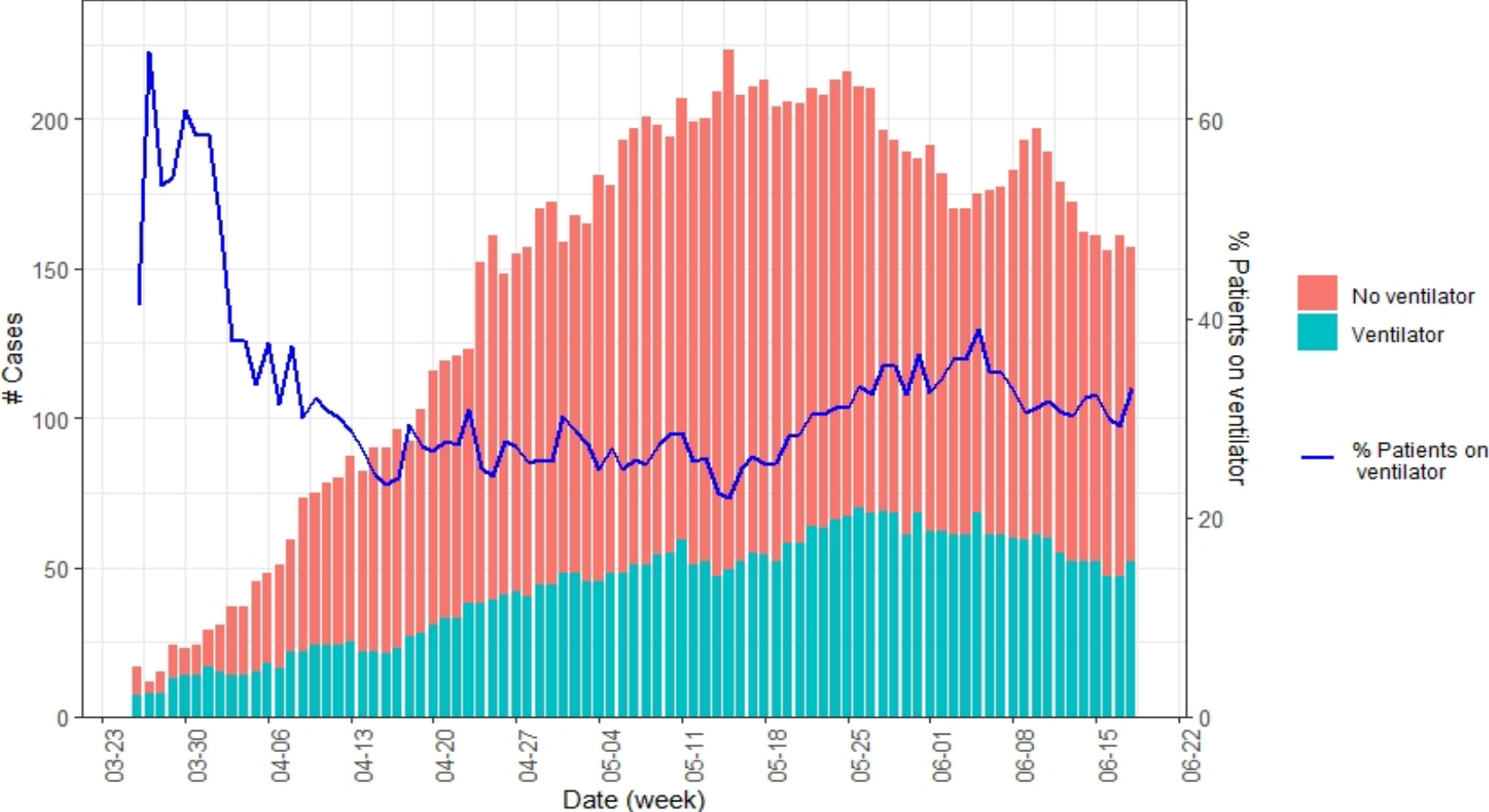


Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 6.22.2020, New Mexico Department of Health. Population estimates, UNM Geospatial and Population Studies Program.

New COVID-19 hospitalizations each week



COVID-19 hospitalizations and ventilator use



As of June 18, 2020



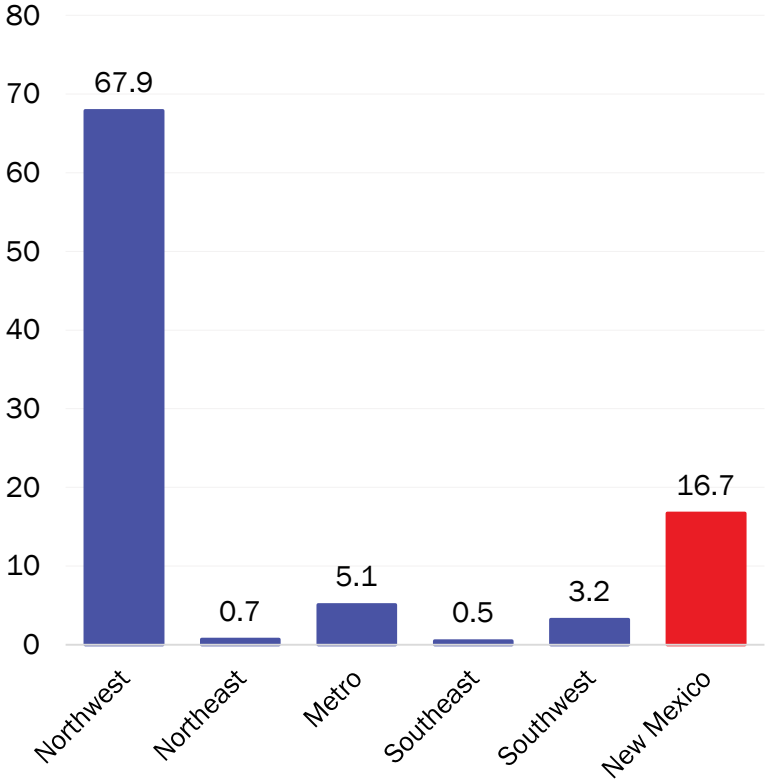
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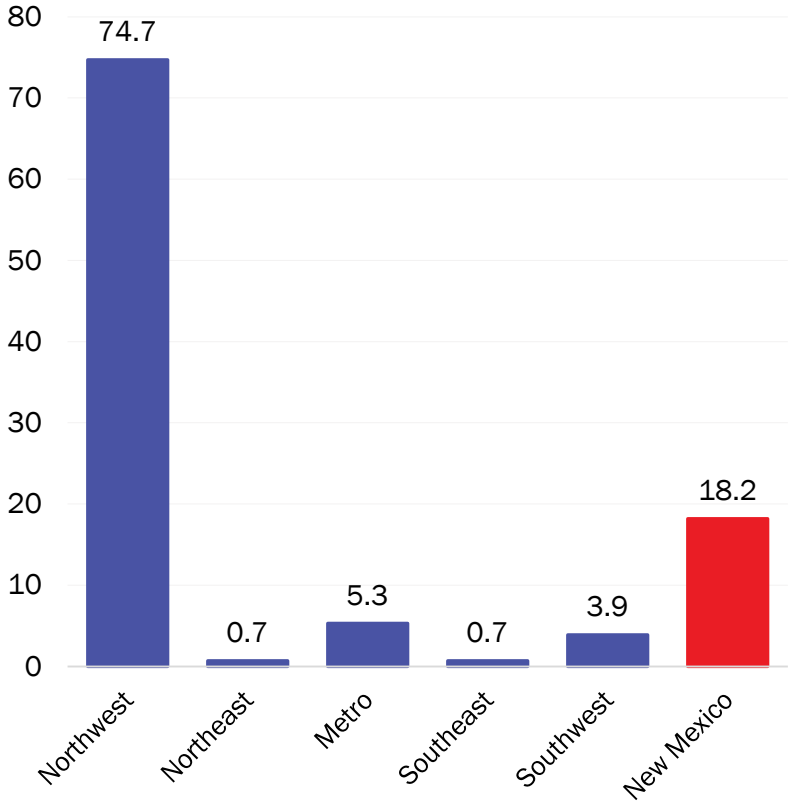
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Mortality Rate: Number of COVID-19 deaths per 100,000 population (age-adjusted)

June 14, 2020



June 19, 2020

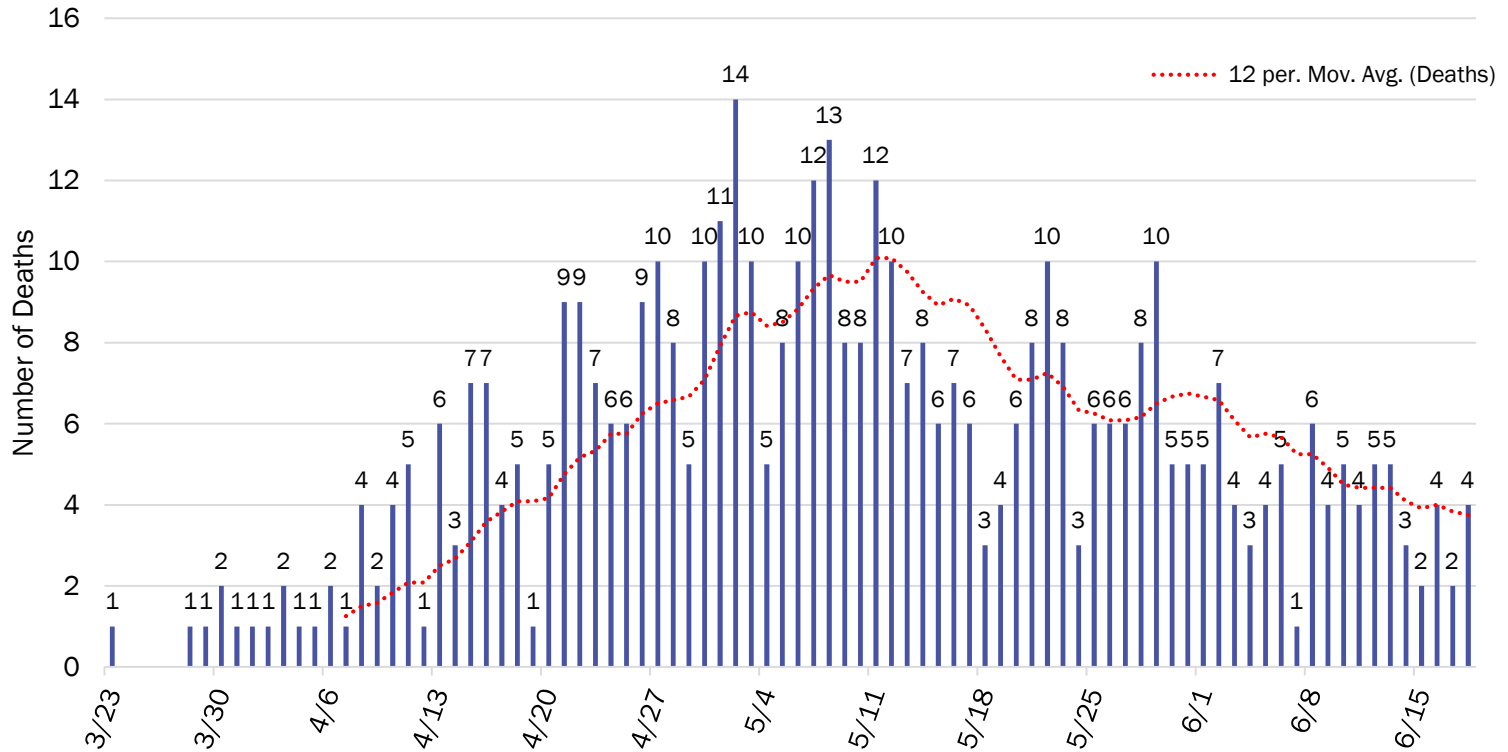


Rates have been age-adjusted to the U.S. 2000 standard population.
 Source: Bureau of Vital Records and Health Statistics and Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 6.19.2020, New Mexico Department of Health. Population estimates, UNM Geospatial and Population Studies Program.



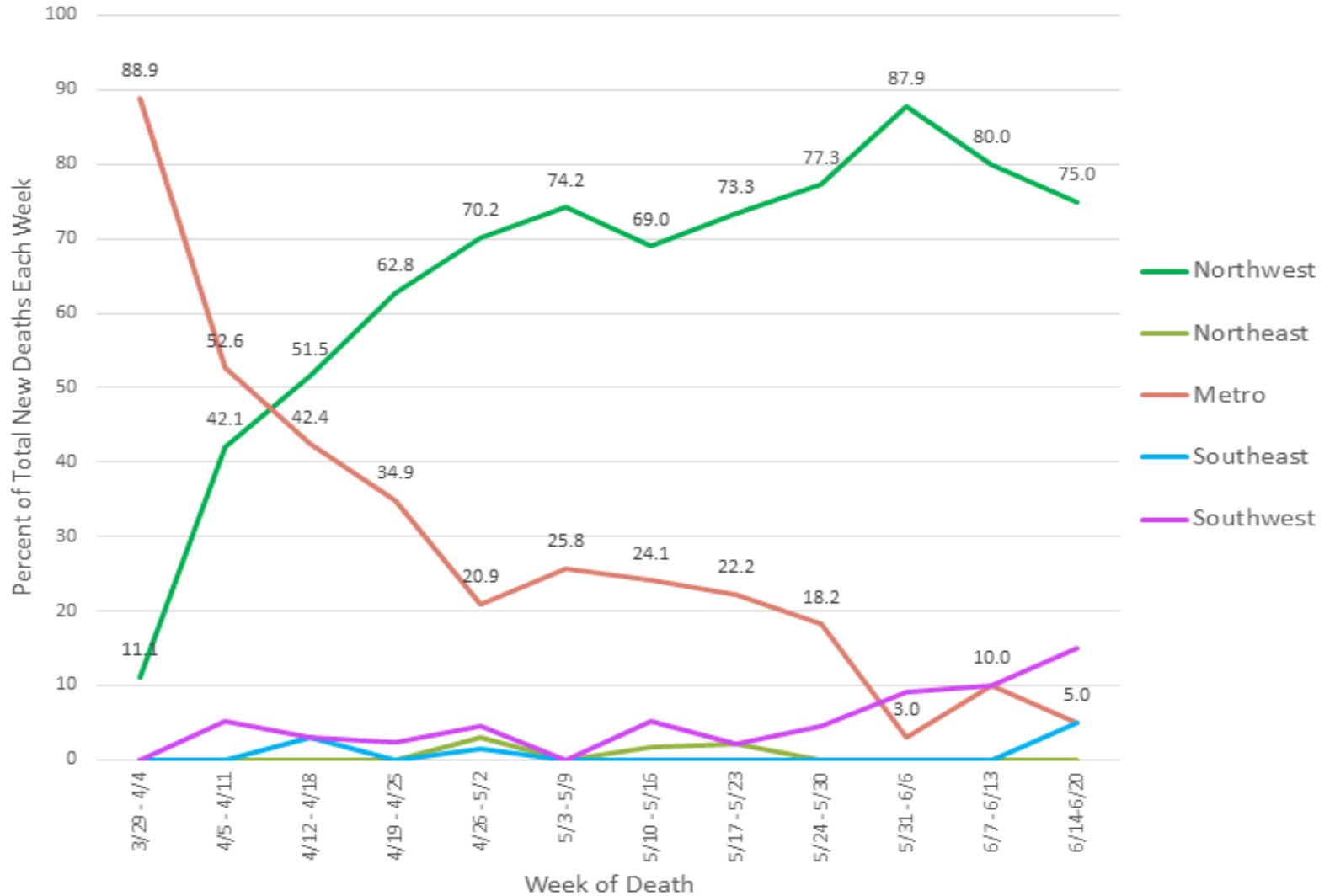
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COVID-19 Deaths by Date of Death, New Mexico

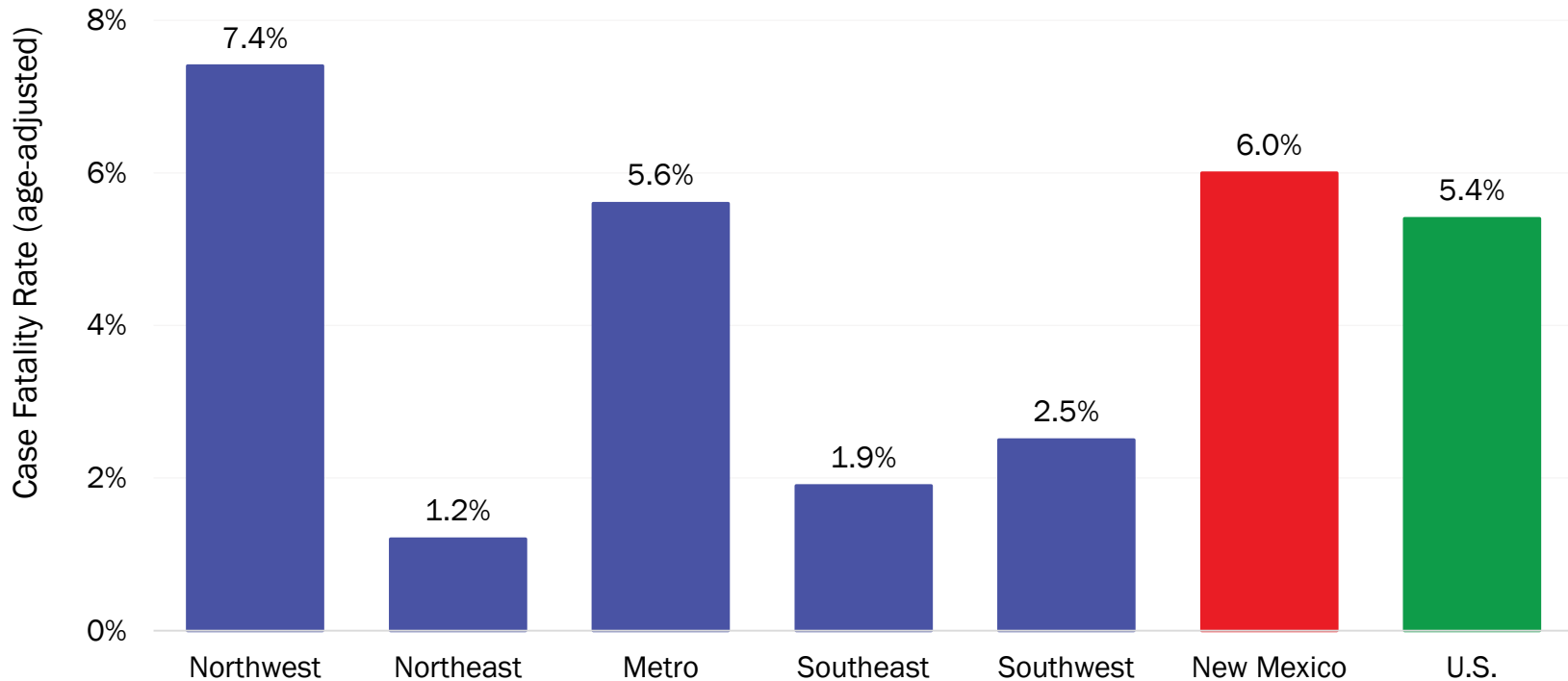


Reporting through 6/19/2020

New COVID-19 Deaths by Week and Region



Case Fatality Rate: Percentage of COVID-19 cases resulting in death (age-adjusted)



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 6.19.2020, New Mexico Department of Health.

New Mexico Status Updates

- Case count: Statewide, daily case counts have plateaued.
- Hospitalizations: For the past two 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 6.23.20
R_Effective	Actual Measured Daily Value by key county	R_eff=1.08
Positive Test Multiplier	Calculated by LANL	4.4
Hospitalization and Mortality	Actual rolling value / estimated number of total infected	Medical 0.3% ICU 0.3% Vent Rate 60.9% of ICU Crude Case Fatality Rate 4.4%
Length of Stay	Actual rolling value / estimated number of total infected	Medical 5 days ICU 14 days ICU on Vent 14 days