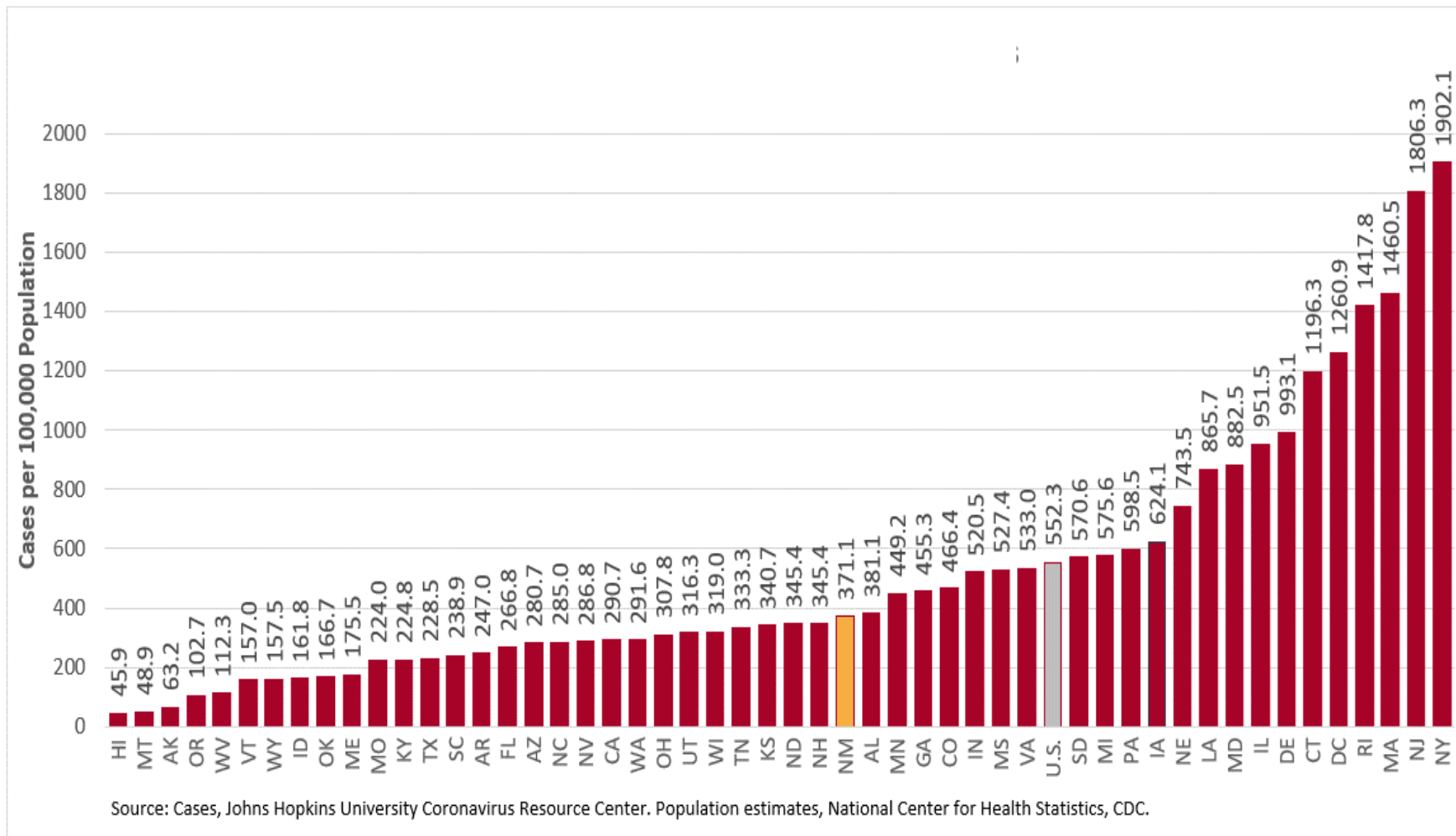


COVID-19 in New Mexico: Epidemiologic Update

A NMDOH, Presbyterian, LANL, and SNL Partnership
June 2, 2020

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

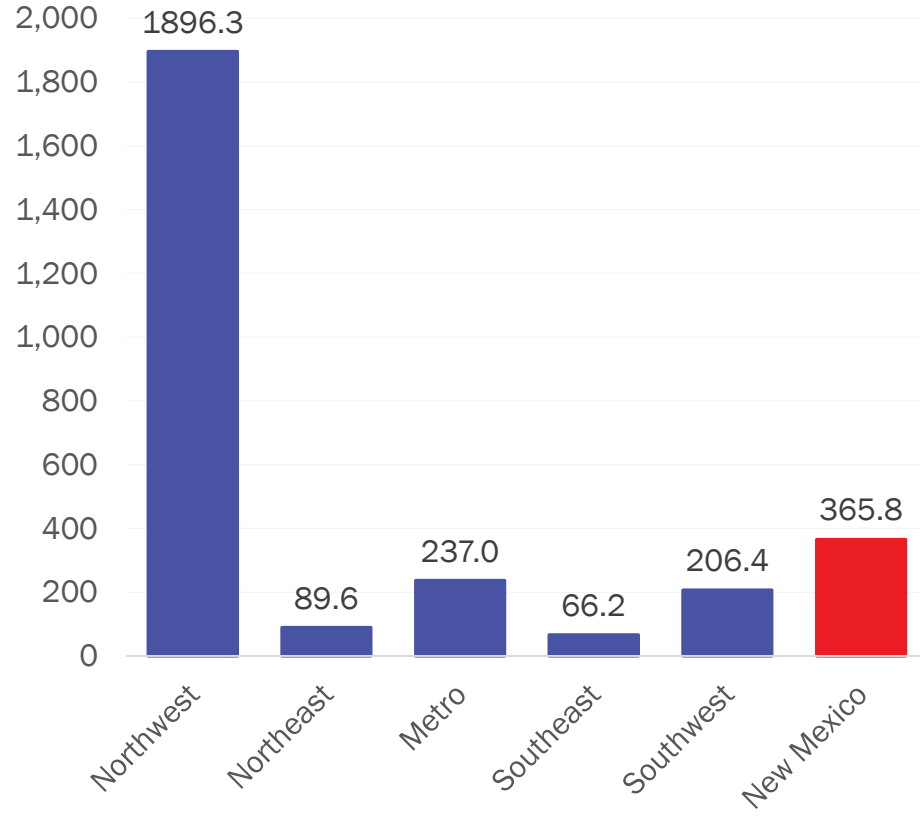
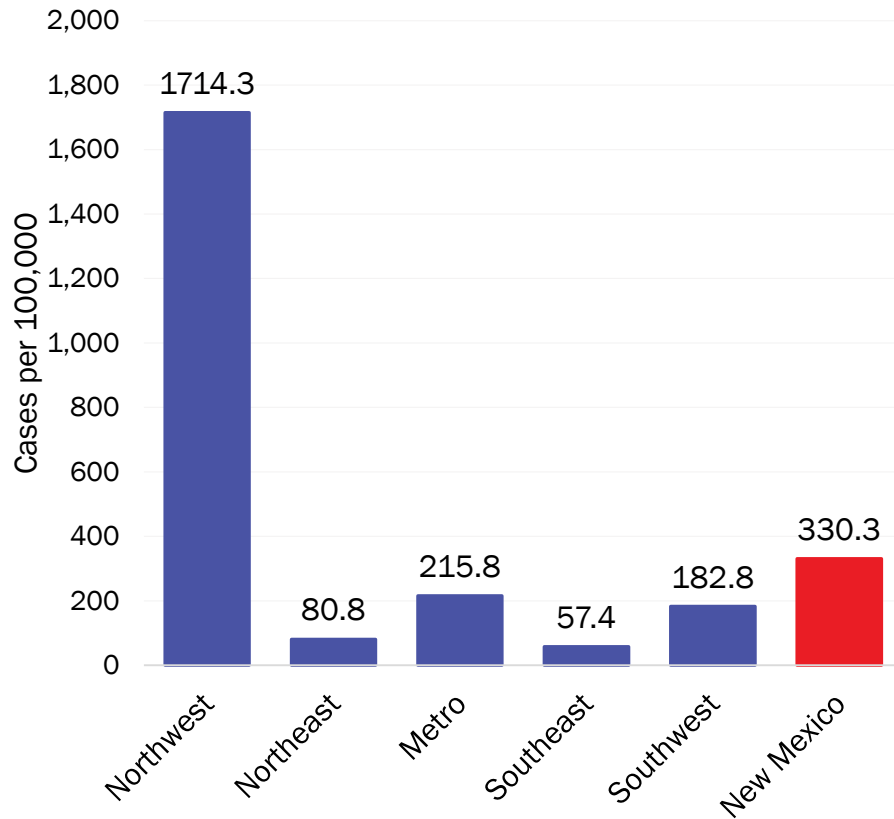


As of June 2, 2020

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

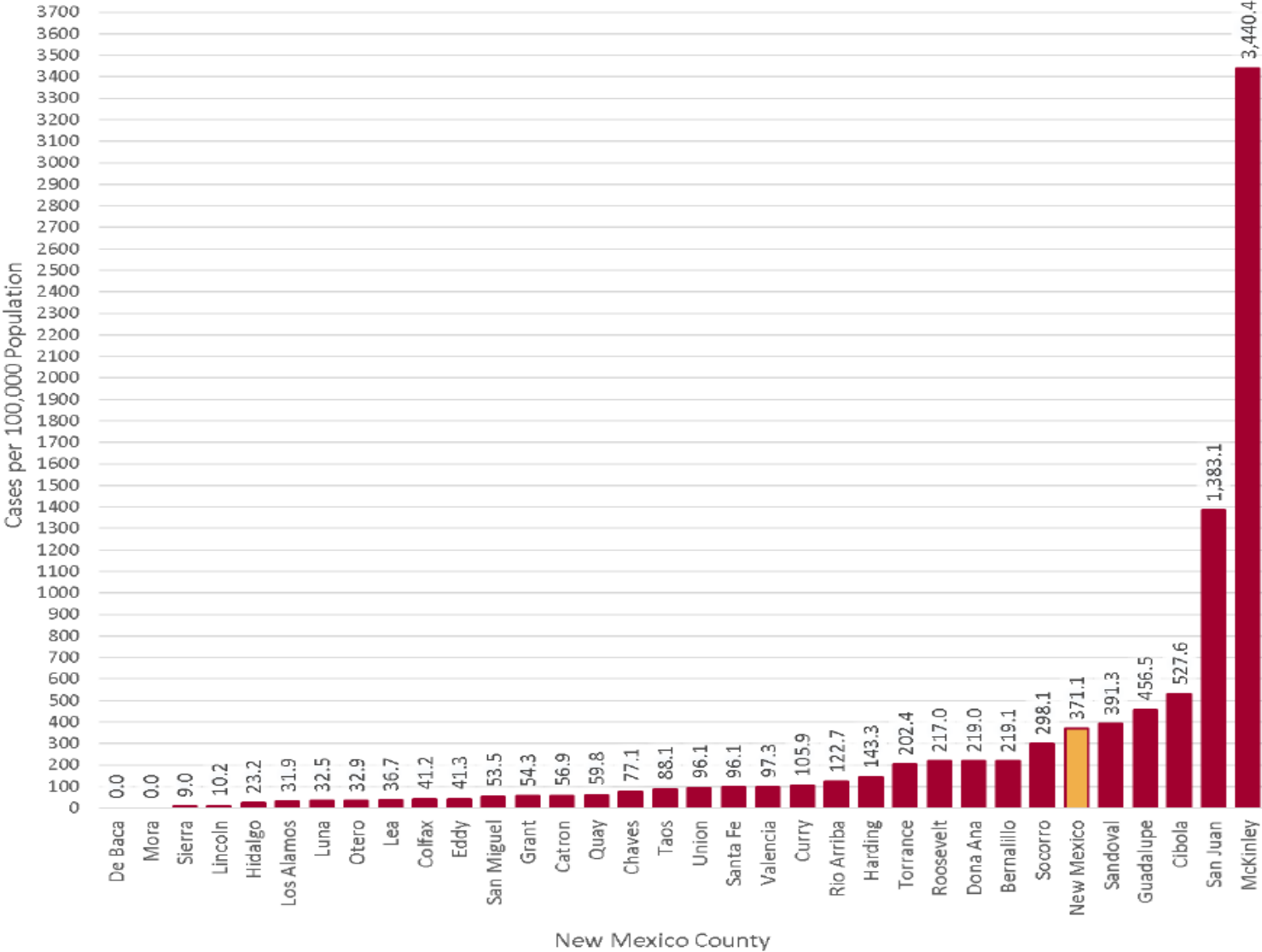
May 25, 2020

May 31, 2020



Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 5.31.2020, New Mexico Department of Health. Population estimates, UNM Geospatial and Population Studies Program.

Prevalence: COVID-19 cases per 100,000 by NM county

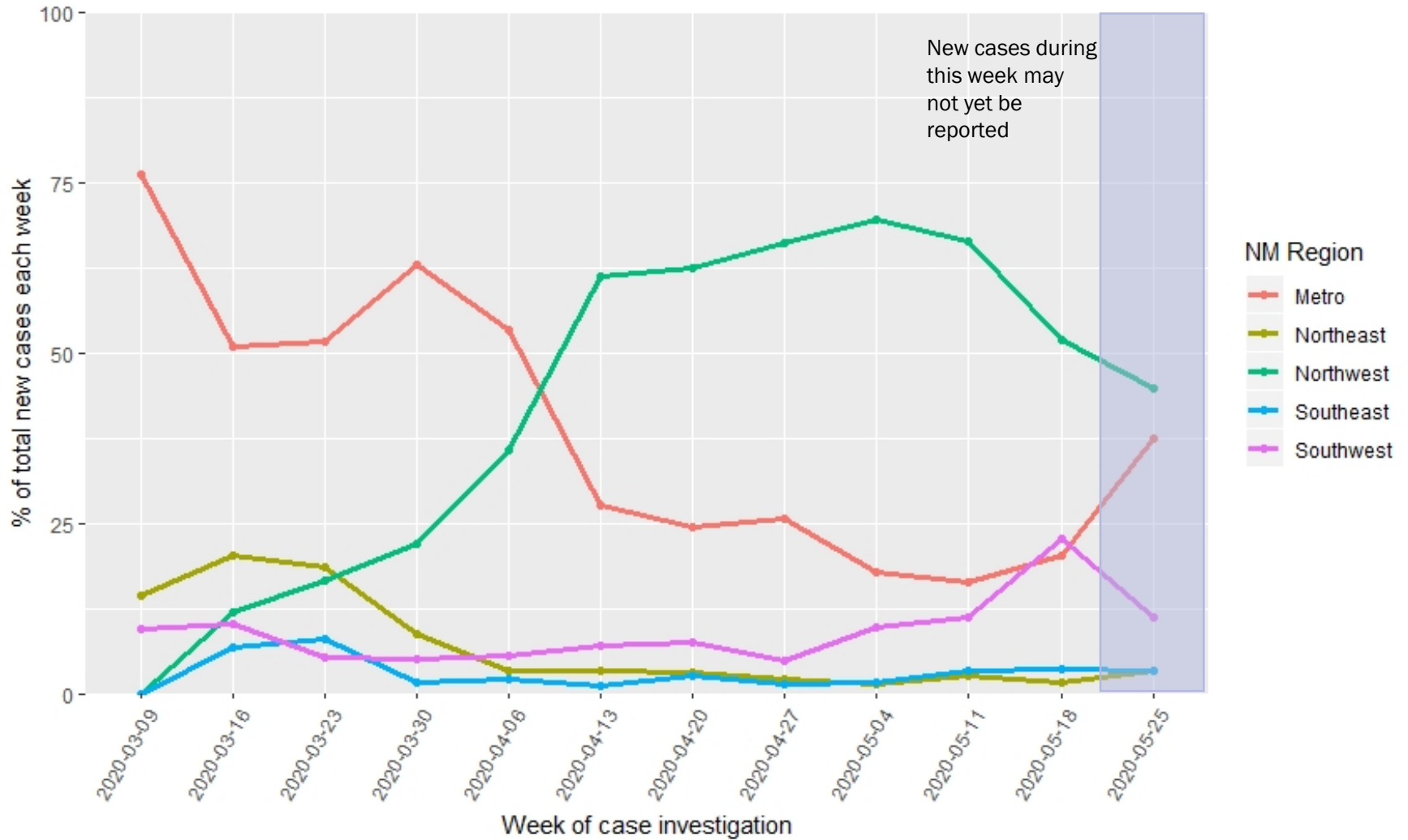


June 1, 2020

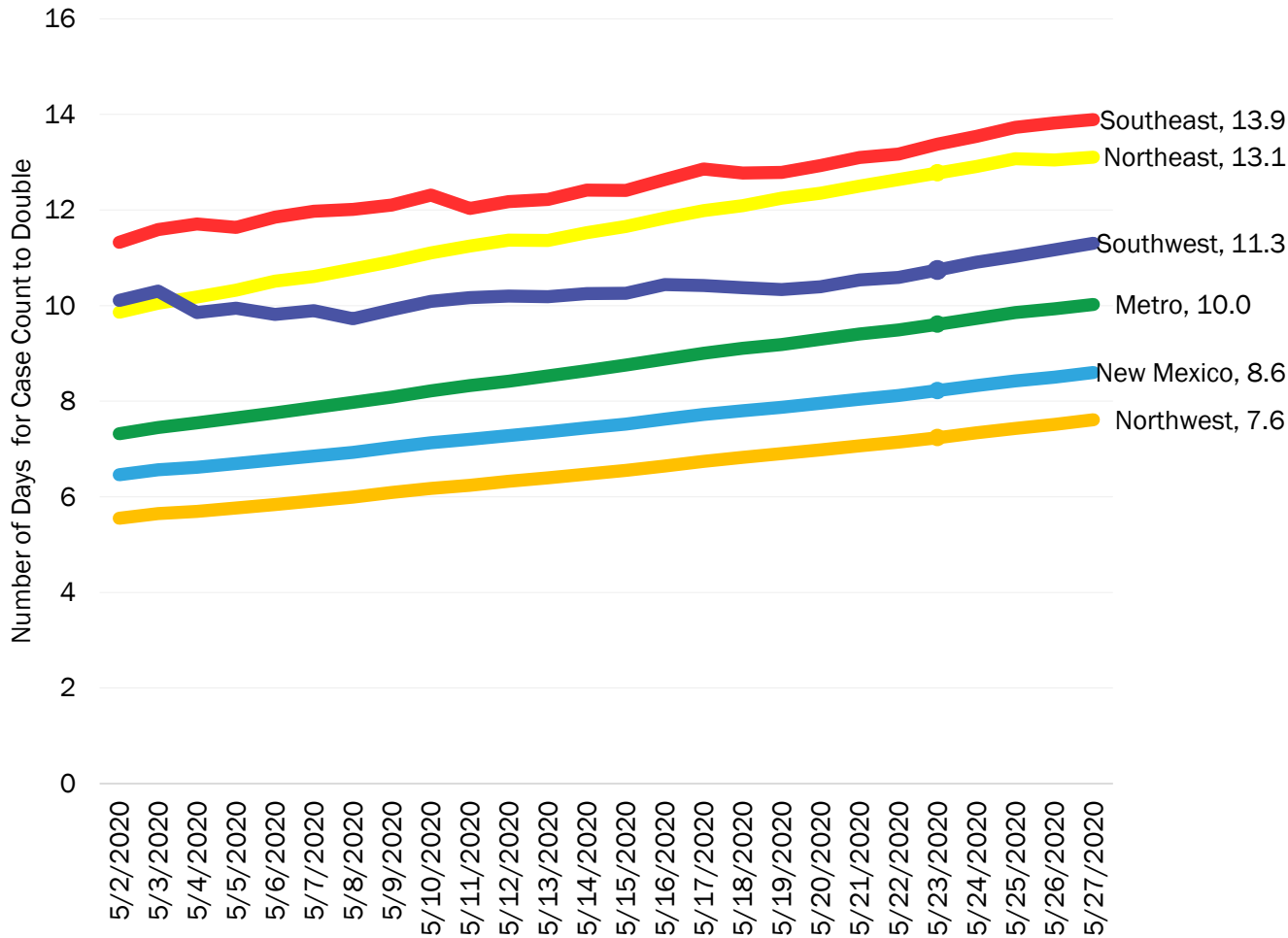


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New COVID-19 cases each week



Projected doubling time



Doubling time (day) on May 25, 2020
Southeast: 13.0
Northeast: 12.3
Southwest: 10.4
Metro: 9.4
New Mexico: 8.0
Northwest: 7.0

Projected Doubling Time Based on Date of Test Specimen Collection and Cumulative Average Rate of Increase.

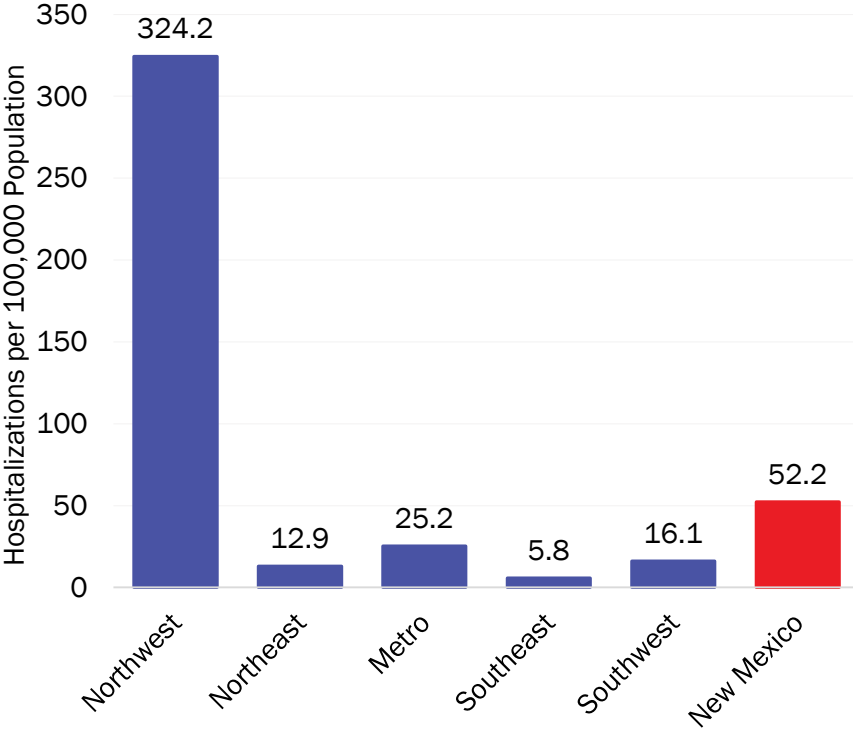
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 6.1.2020, New Mexico Department of Health.



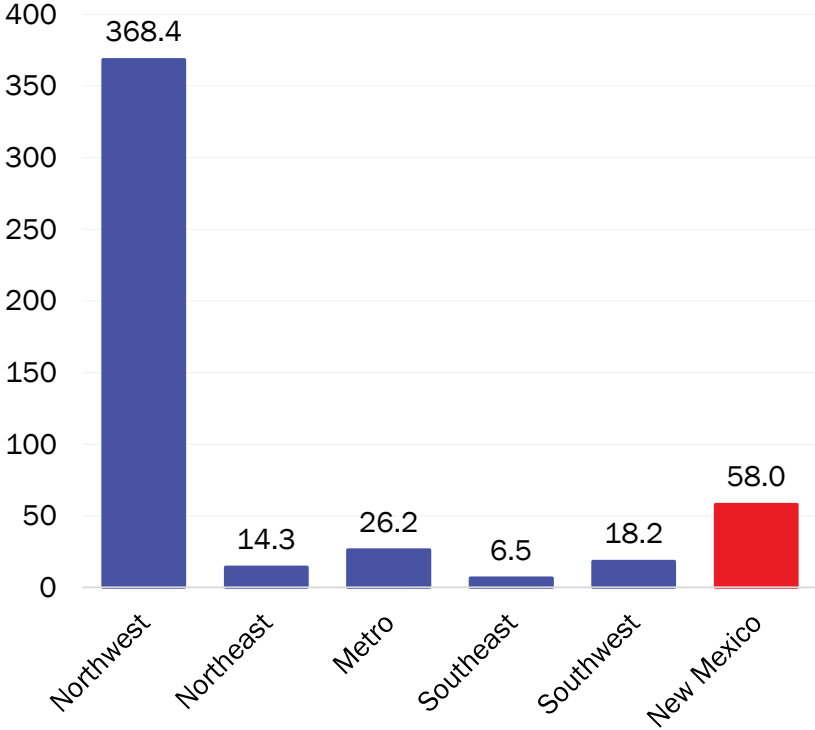
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Hospitalization Rate: Number of COVID-19 cases per 100,000 population

May 25, 2020



June 1, 2020



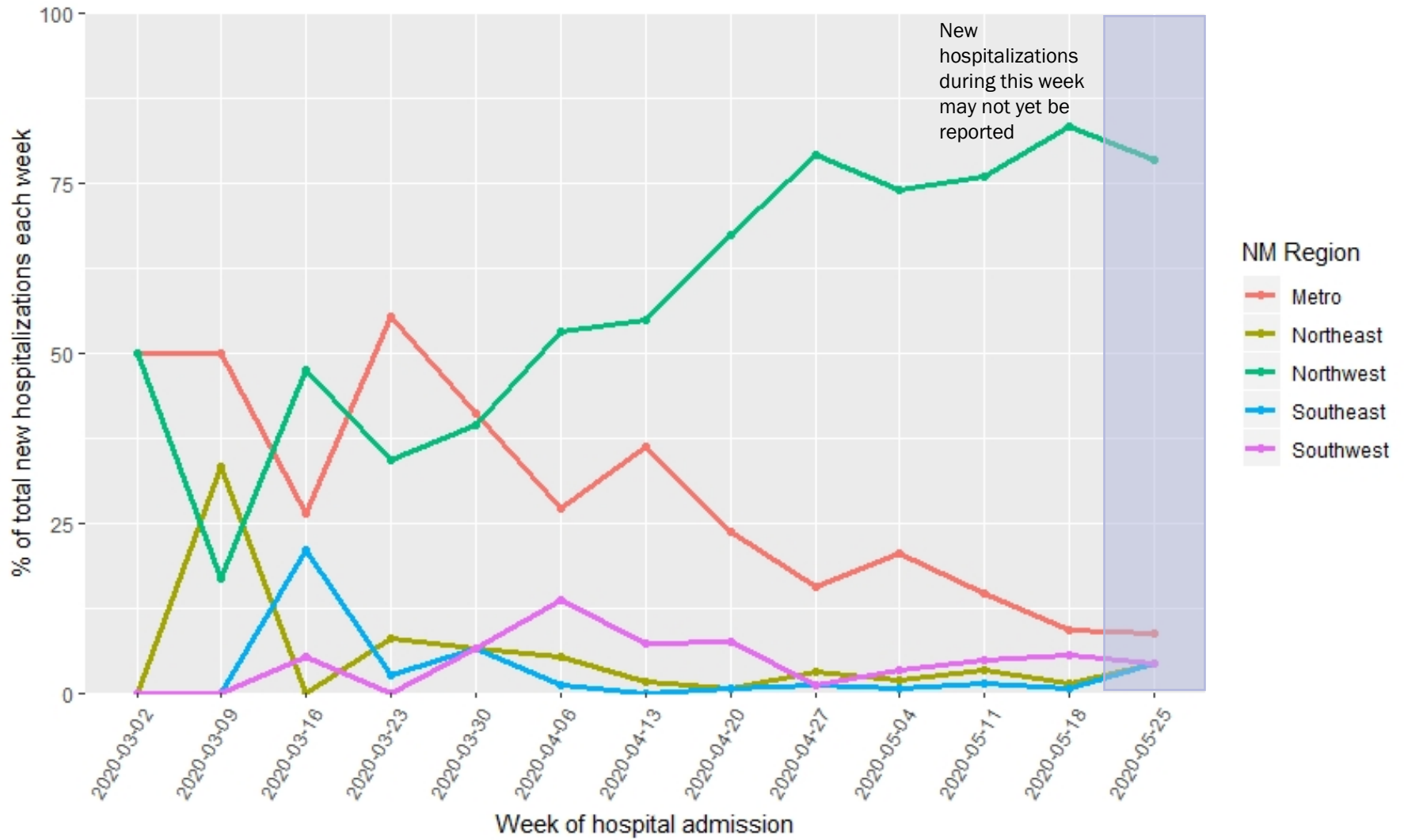
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 6.1.2020, New Mexico Department of Health. Population estimates, UNM Geospatial and Population Studies Program.



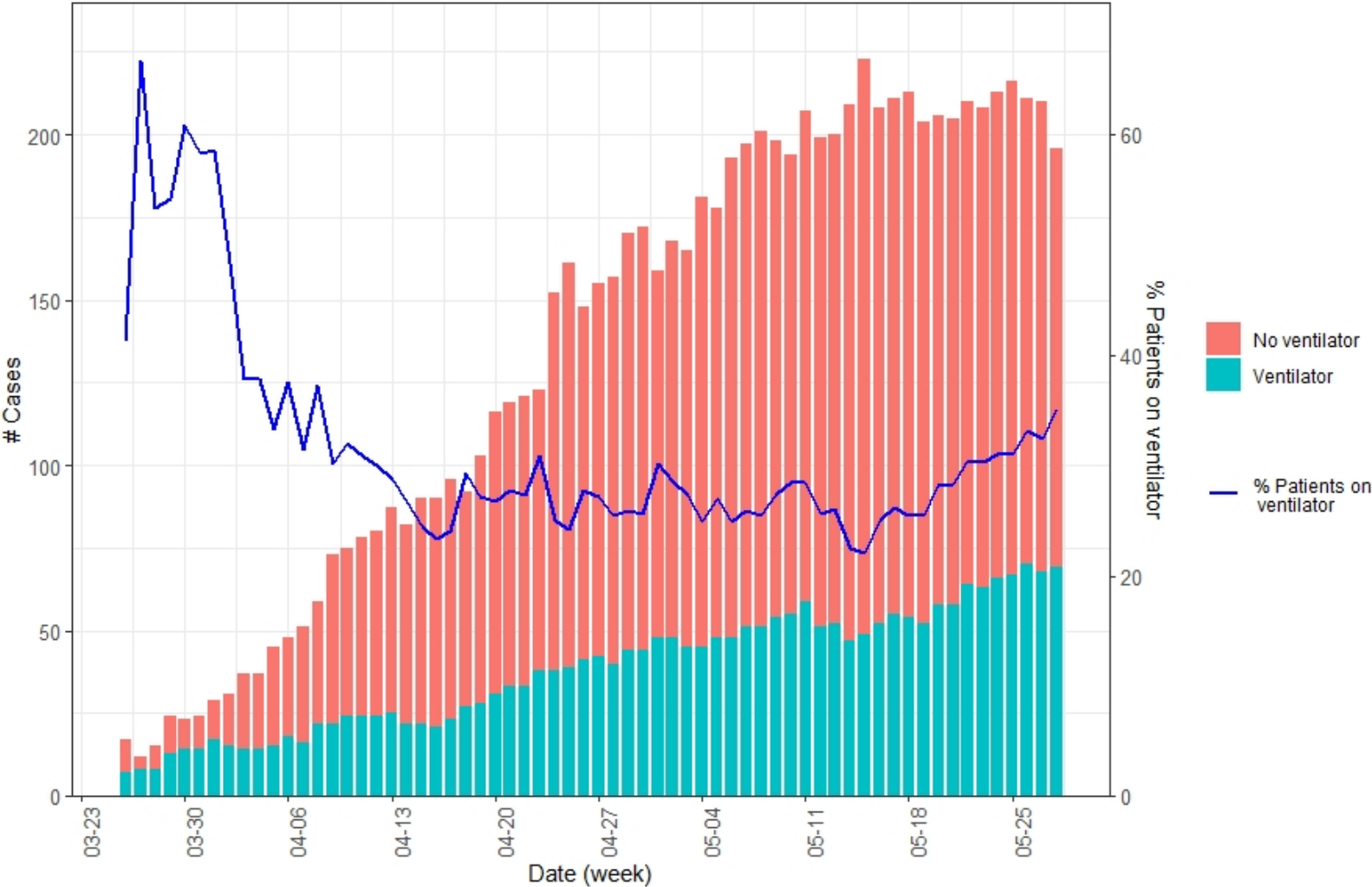
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New COVID-19 hospitalizations each week



COVID-19 hospitalizations and ventilator use



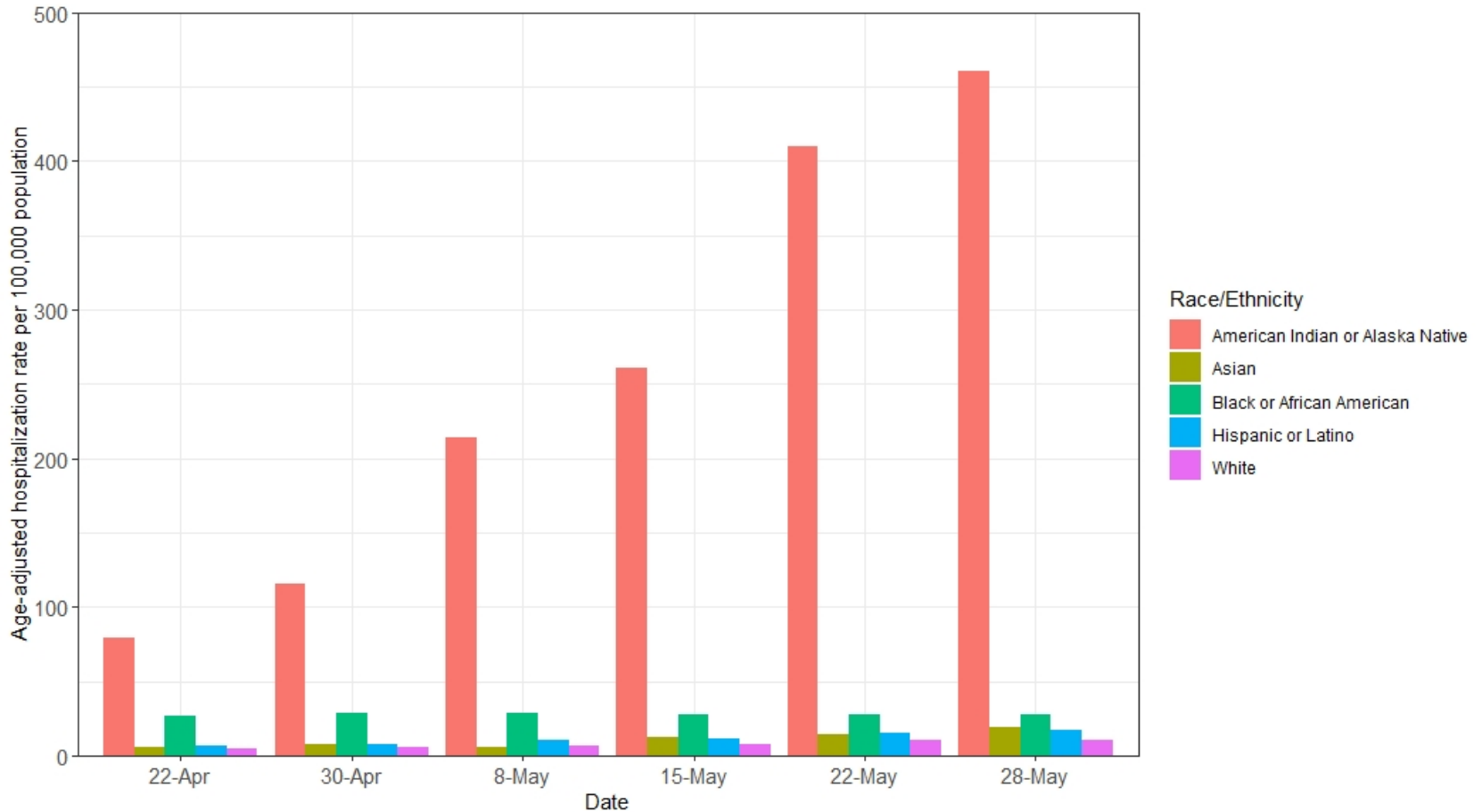
As of May 28, 2020



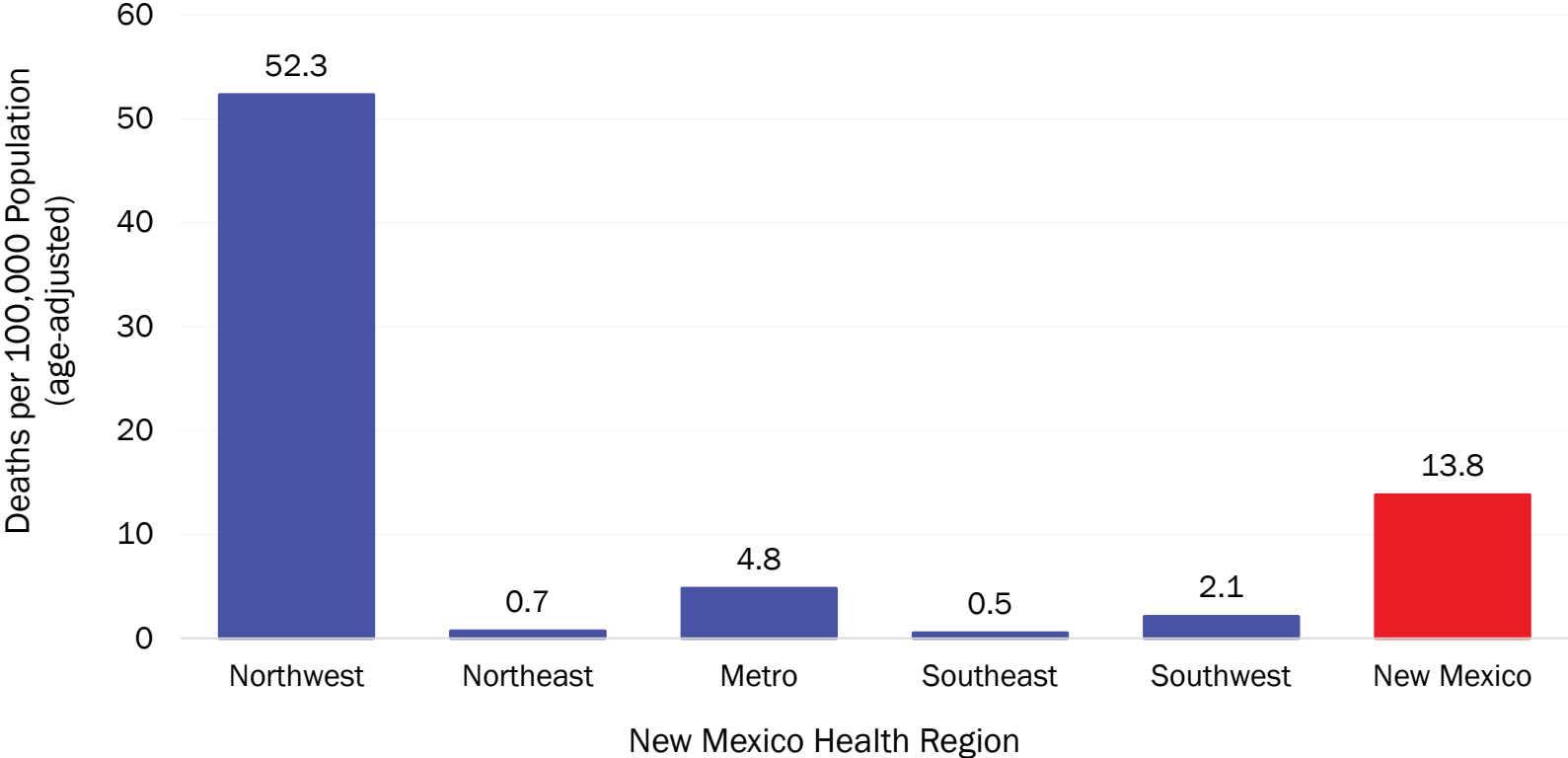
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COVID-19 age-adjusted hospitalization rate by race/ethnicity per 100,000 population



Mortality Rate: Number of COVID-19 deaths per 100,000 population

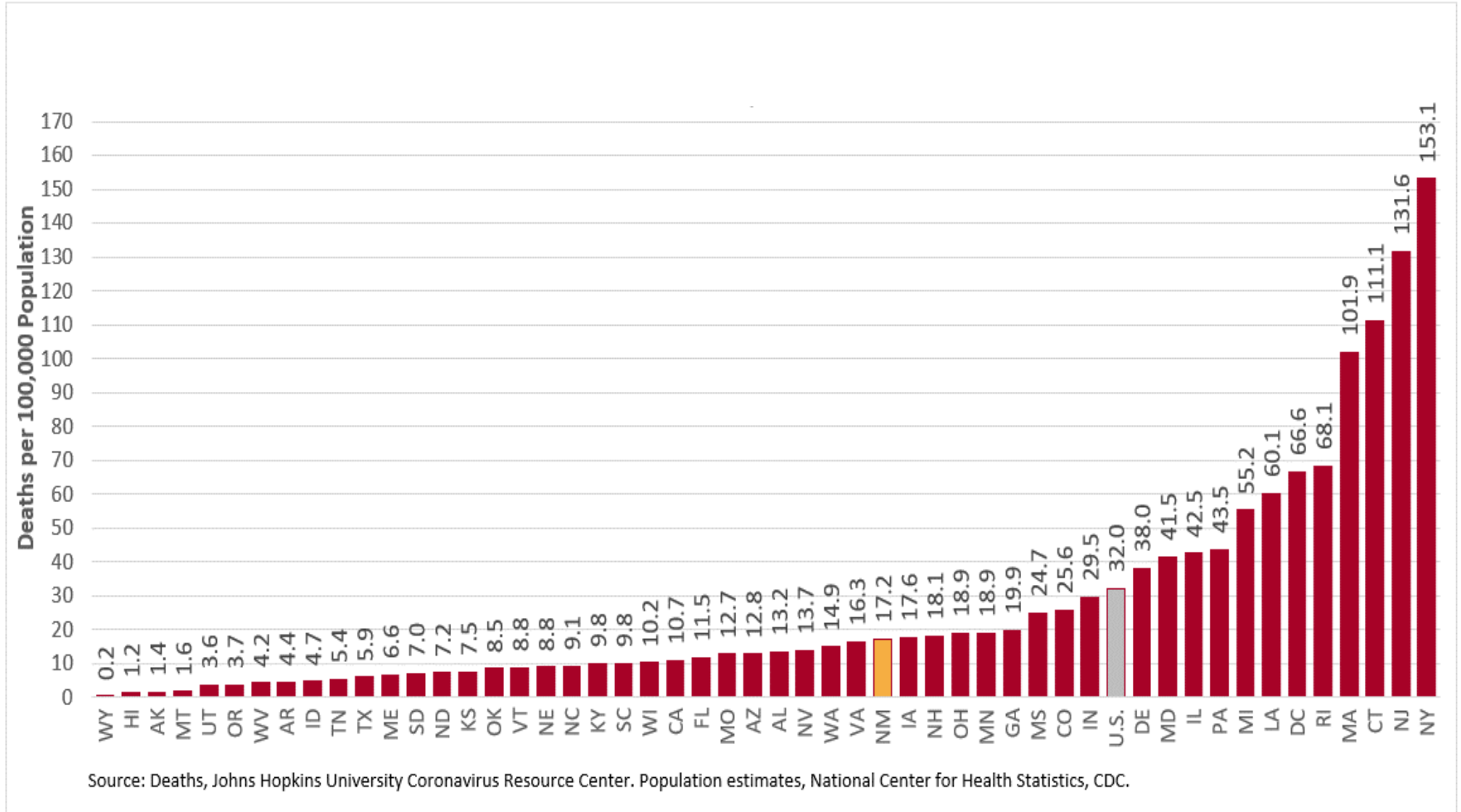


Rates have been age-adjusted to the U.S. 2000 standard population.
Source: Bureau of Vital Records and Health Statistics and Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 5.31.2020, New Mexico Department of Health. Population estimates, UNM Geospatial and Population Studies Program.



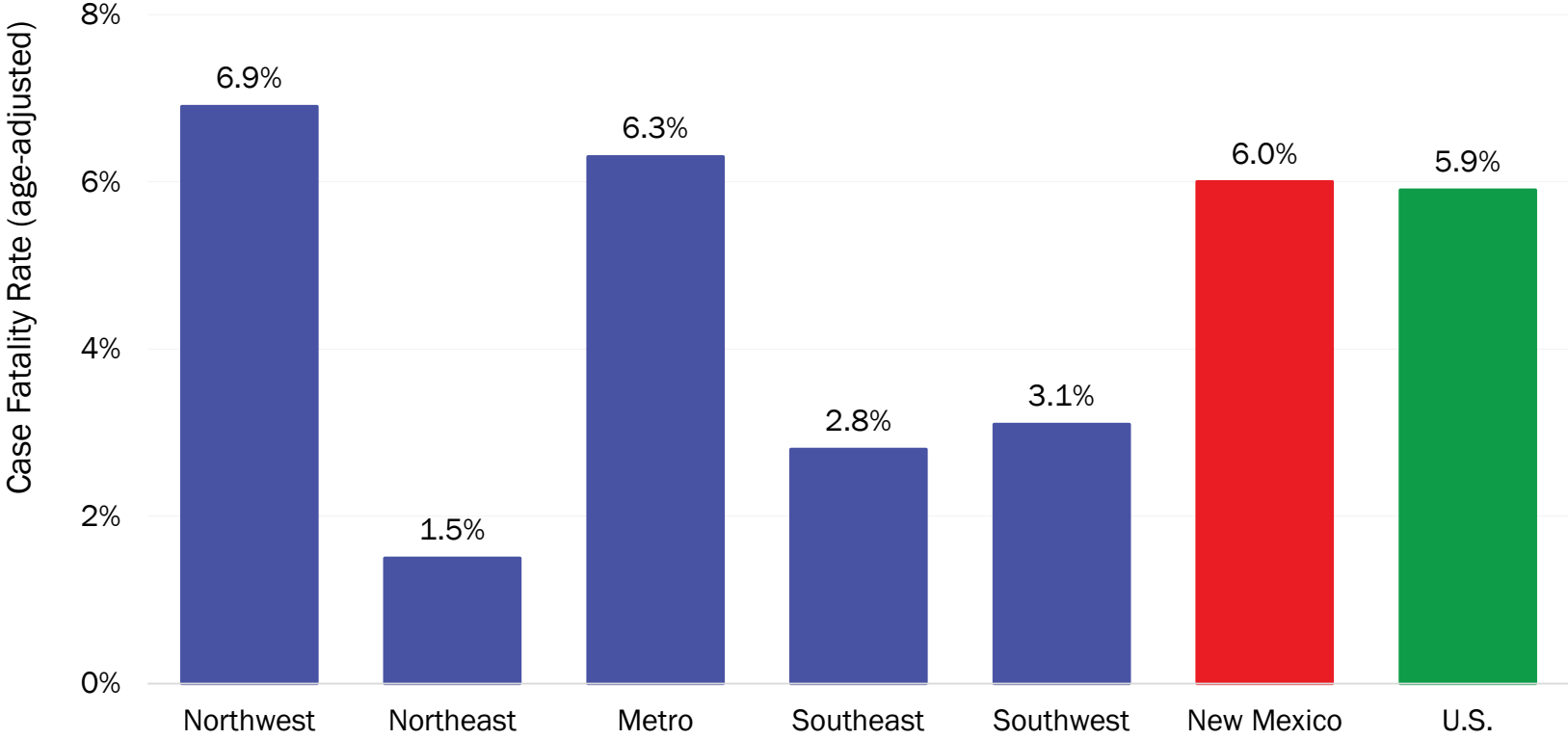
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Crude death rate: COVID-19 deaths per 100,000 by U.S. states



As of June 2, 2020

Case Fatality Rate: Percentage of COVID-19 cases resulting in death



New Mexico Health Region

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

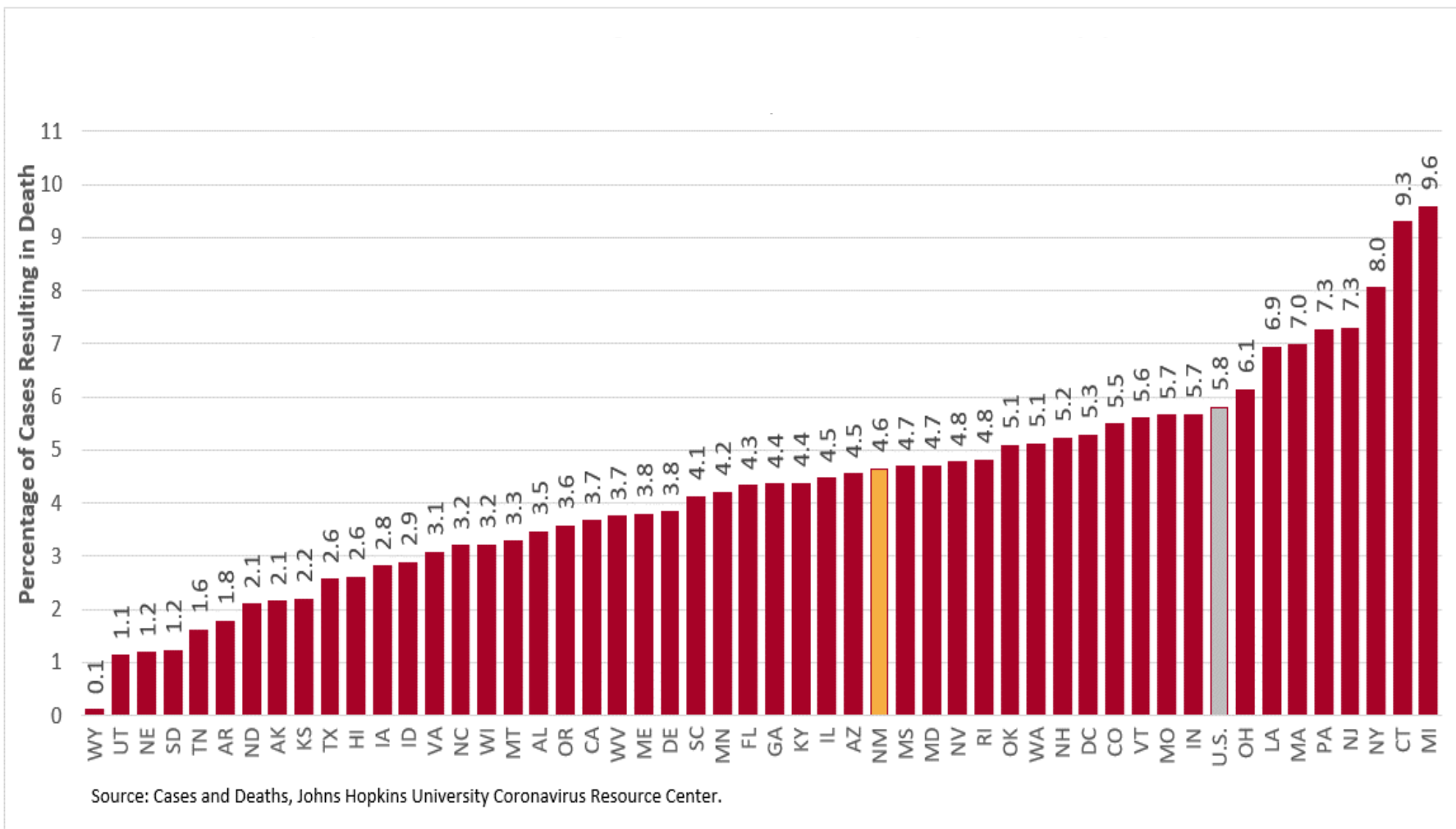
Source: Bureau of Vital Records and Health Statistics and Infectious Disease Epidemiology Bureau, Epidemiology and Response Division, reporting through 5.31.2020, New Mexico Department of Health.



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Case fatality rate: Percentage of COVID-19 cases resulting in death by U.S. states



As of June 2, 2020

Key points

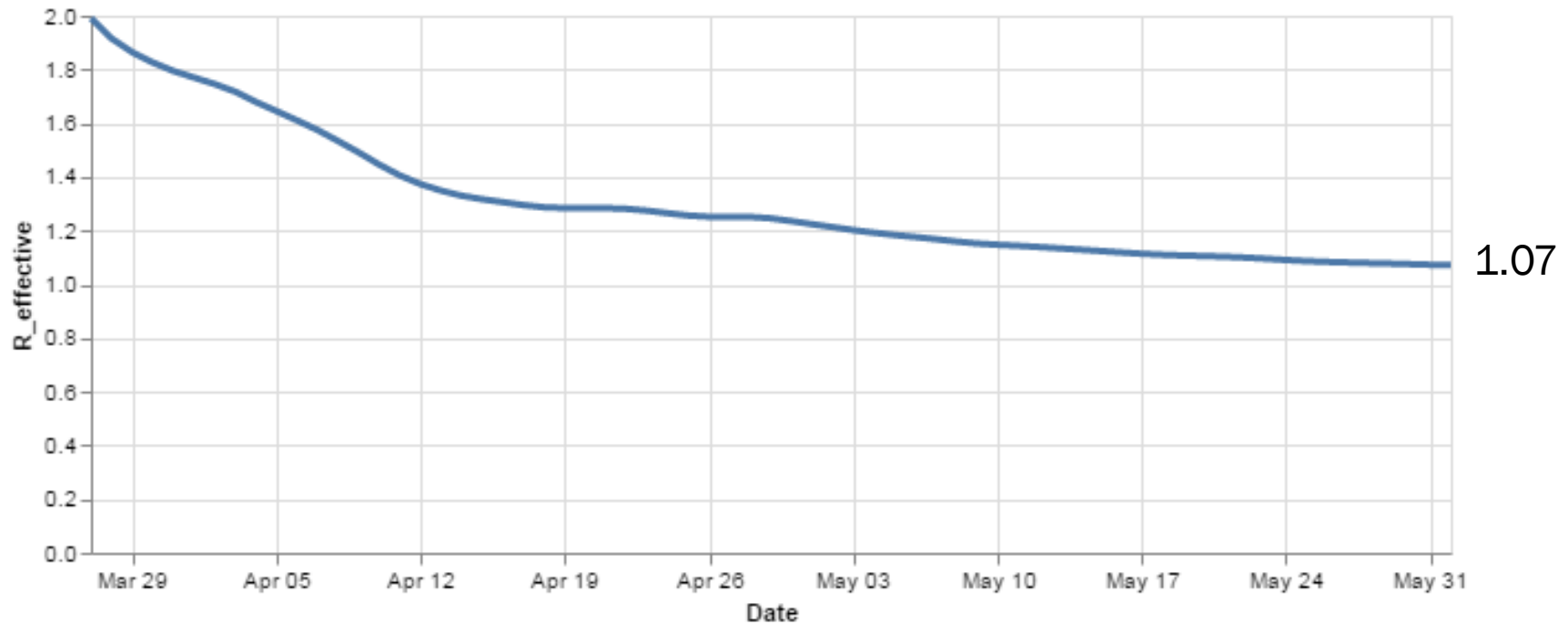
- COVID-19 prevalence continues to increase across all regions in NM
 - 23rd highest prevalence in the U.S.
 - Prevalence rates in age groups 15-44, 45-64, and 65+ are similar
 - AI/AN have highest burden of disease except in the SE
 - Percentages of total new cases each week have decreased in the Metro and NW, and increased in the SW
 - Doubling times for all regions continue to increase
- Hospitalization rates minimally increased across all regions except NW
 - Highest rates in McKinley, San Juan, Socorro, and Cibola counties (>50 cases/100,000)
 - NW region has the highest percentage of new hospitalizations each week and continues to increase, while the Metro region is decreasing
 - Hospitalization rate is highest in the 85+ age group
 - Ventilator use exceeded 30% last week; 32% as of 6/1/2020
 - AI/AN age-adjusted rate continues to increase, while other racial/ethnic groups have had minimal increases
- Mortality rates and case-fatality rates (CFRs) are highest in the NW region followed by Metro Region
 - 21st highest mortality rate and CFR (not age-adjusted) in the U.S.
 - NM CFR is similar to U.S. CFR after age-adjustment
 - CFRs in Metro, NE, and SE regions have decreased since last week, but NW and SW have increased (all minimal changes)
 - Both mortality rate and CFRs are highest in the age 85+ and AI/AN groups

COVID-19 in New Mexico: modeling update

As of June 1, 2020
Epidemiology & Response Division

The effective rate of transmission for the state has continued to decrease.

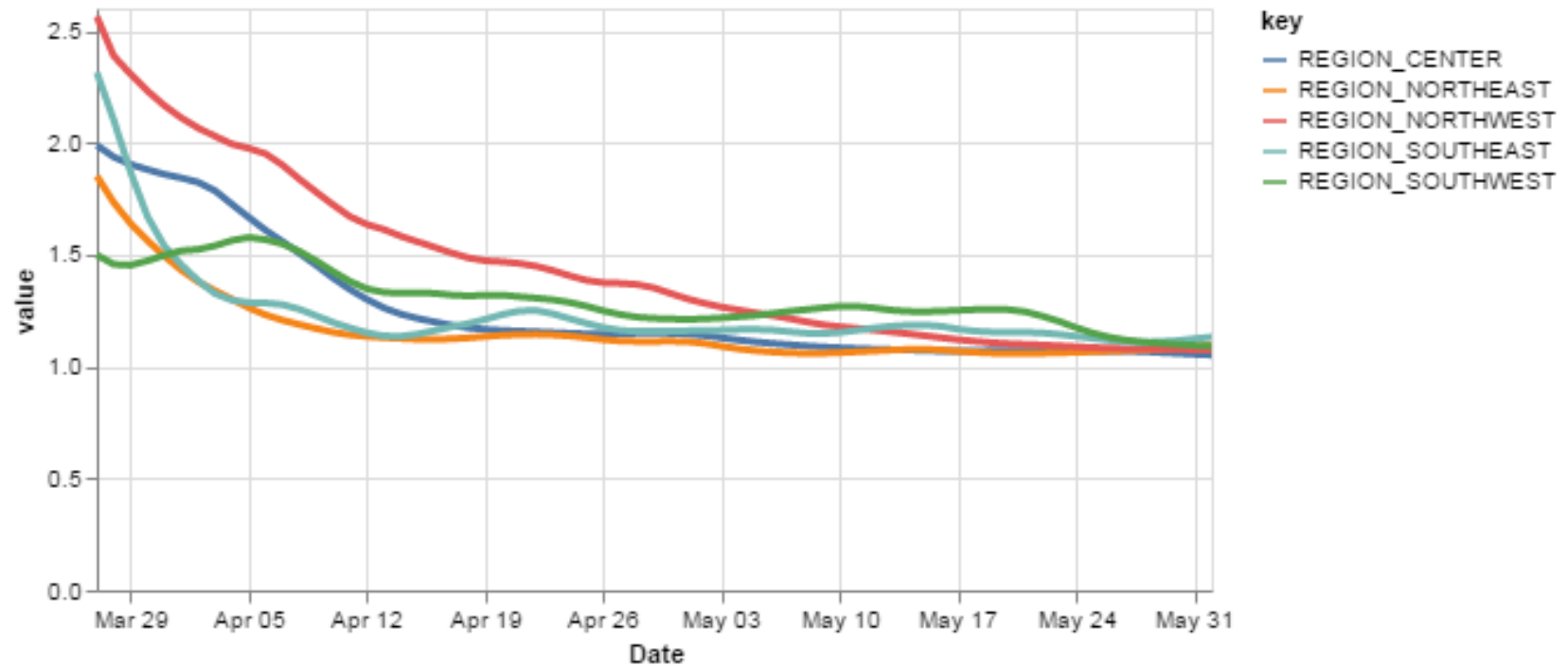
R_effective over time, state



Courtesy of Presbyterian Healthcare Services – June 1, 2020.

The Southeast region now has the highest rate of transmission at 1.13.

R_effective over time, regions



Courtesy of Presbyterian Healthcare Services – June 1, 2020.

Northwest
R_{effective} 1.08 ↓

Northeast
R_{effective} 1.10 ↑

Key

Low Level Endemic
1-1.1

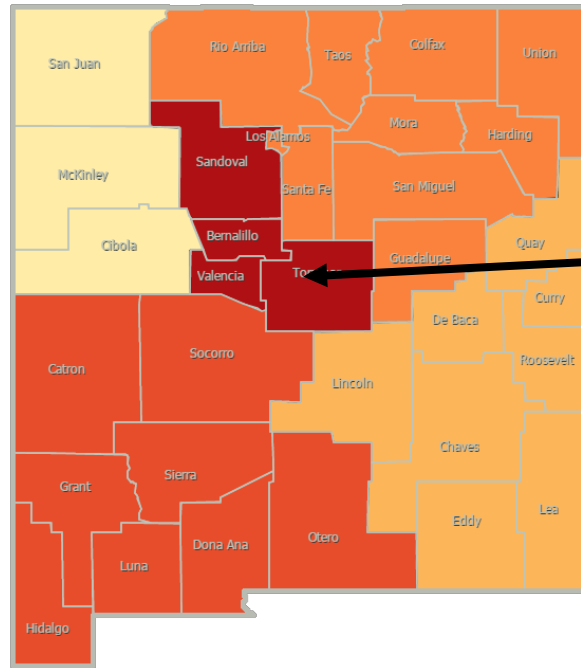
Approaching Low Level Endemic
1.11-1.15

Requiring further mitigation >1.15

Central
R_{effective} 1.05 ↓

Southwest
R_{effective} 1.09 ↓

Southeast
R_{effective} 1.13 ↓



As of May 26, 2020

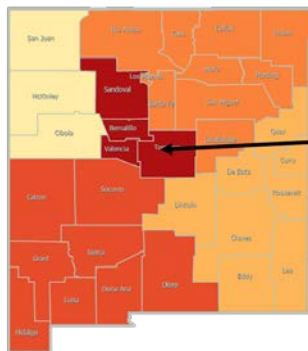
Northwest
R_{effective} 1.10 ↓

Northeast
R_{effective} 1.07 ↓

Central
R_{effective} 1.06 ↓

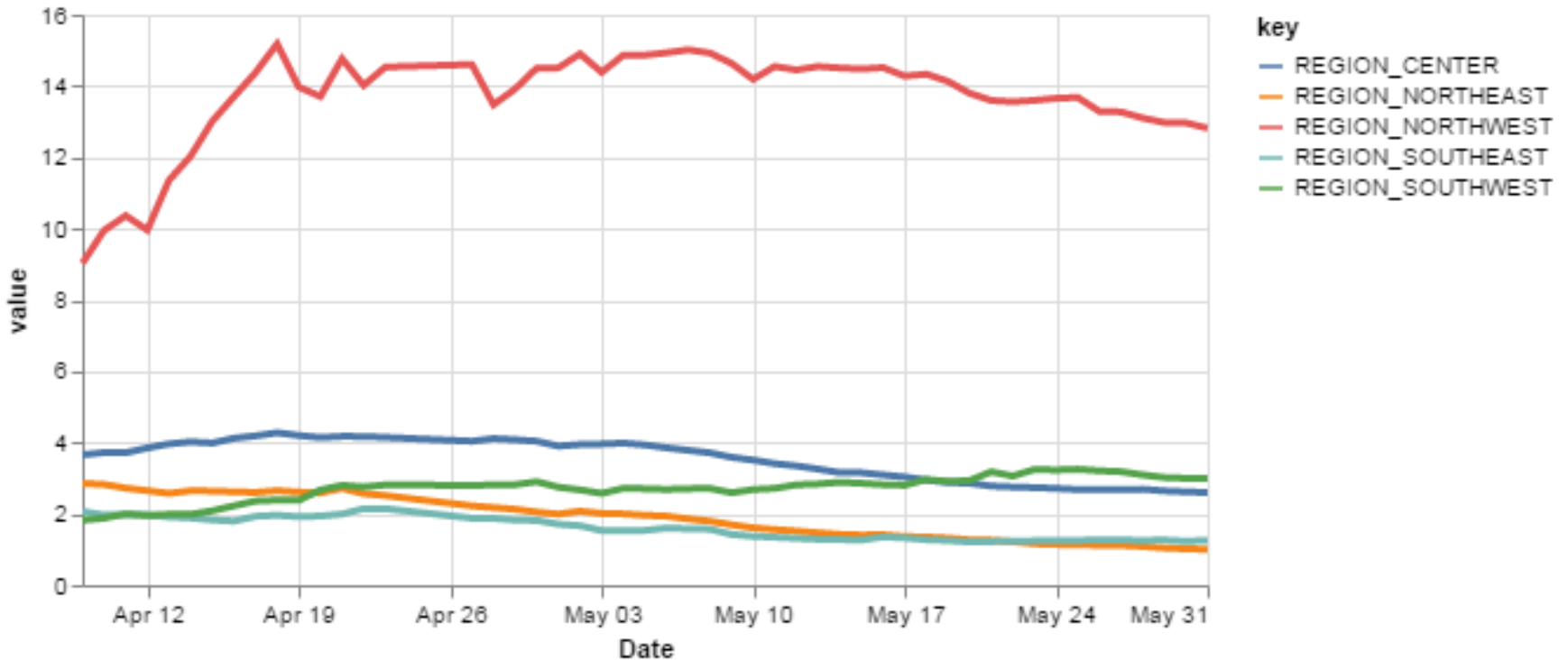
Southwest
R_{effective} 1.24 ↑

Southeast
R_{effective} 1.16 ↓



Northwest percent positive tests continues to decrease.

Positive test rate (%), regions

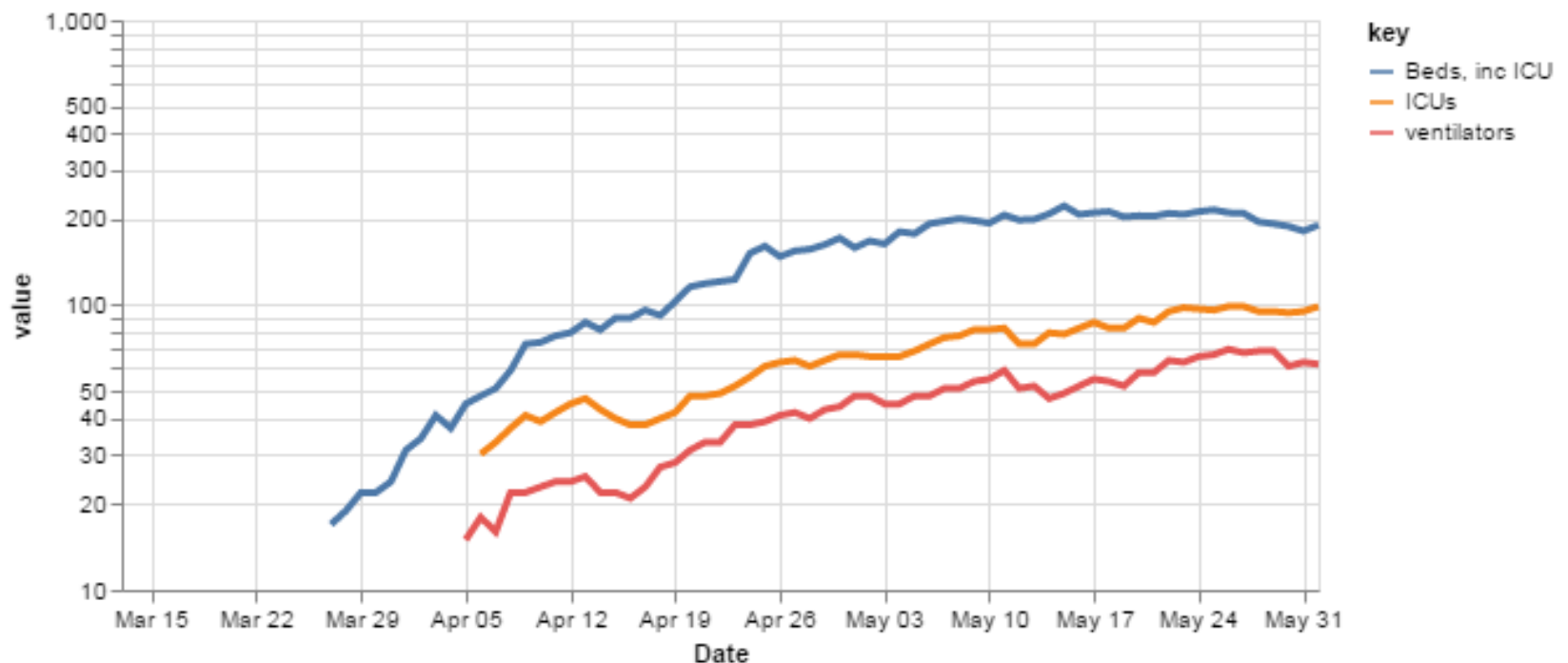


Courtesy of Presbyterian Healthcare Services - May 26, 2020.

Slight decrease in hospitalizations and ventilators over the past week.

log(beds, ICUs, vents) over time

For comparison against state-reported data, this chart **includes** ICUs in the count of beds



Supplementary Slides

Modeling Assumptions

Variable	Measured Value	Value as of 6.1.20
R_Effective	Actual Measured Daily Value by key county	R_eff=1.07
Positive Test Multiplier	Calculated by LANL	4.6
Hospitalization and Mortality	Actual rolling value / estimated number of total infected	Medical 0.3% ICU 0.3% Vent Rate 68.3% of ICU Crude Case Fatality Rate 4.6%
Length of Stay	Actual rolling value / estimated number of total infected	Medical 5 days ICU 14 days ICU on Vent 14 days