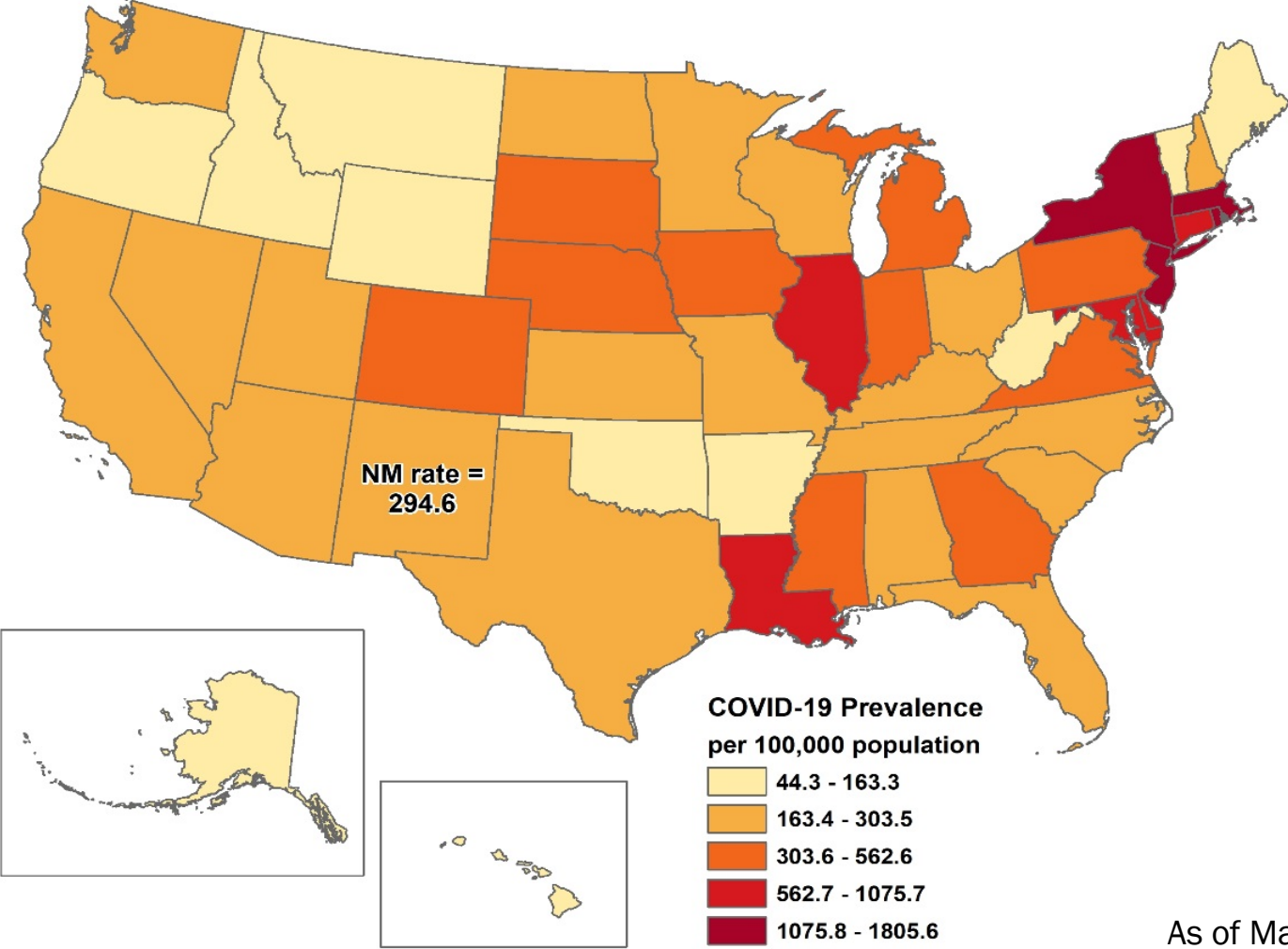# COVID-19 in New Mexico: Epidemiologic Update

A NMDOH, Presbyterian, LANL, and SNL Partnership
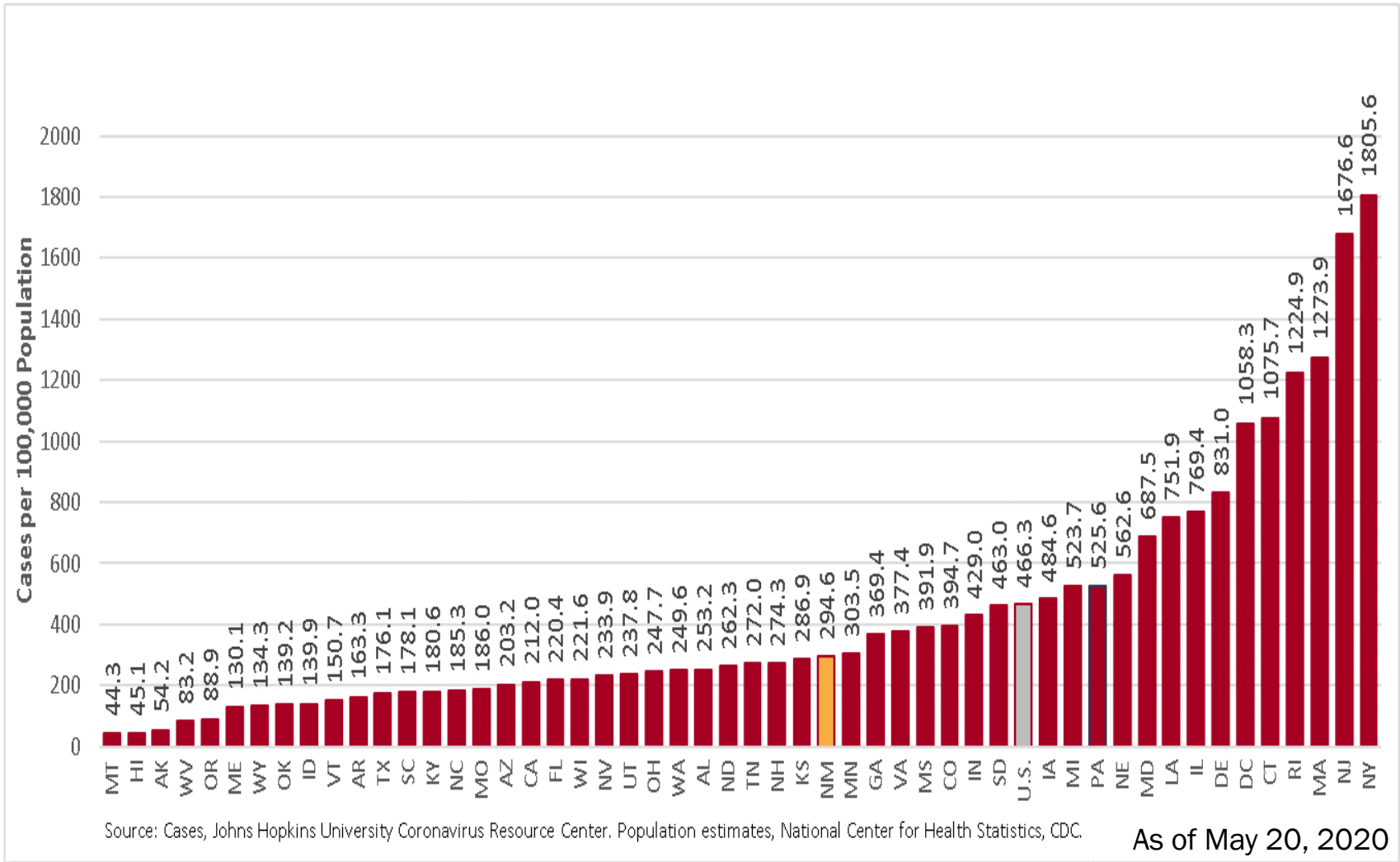
May 26, 2020

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

NM rate = 294.6
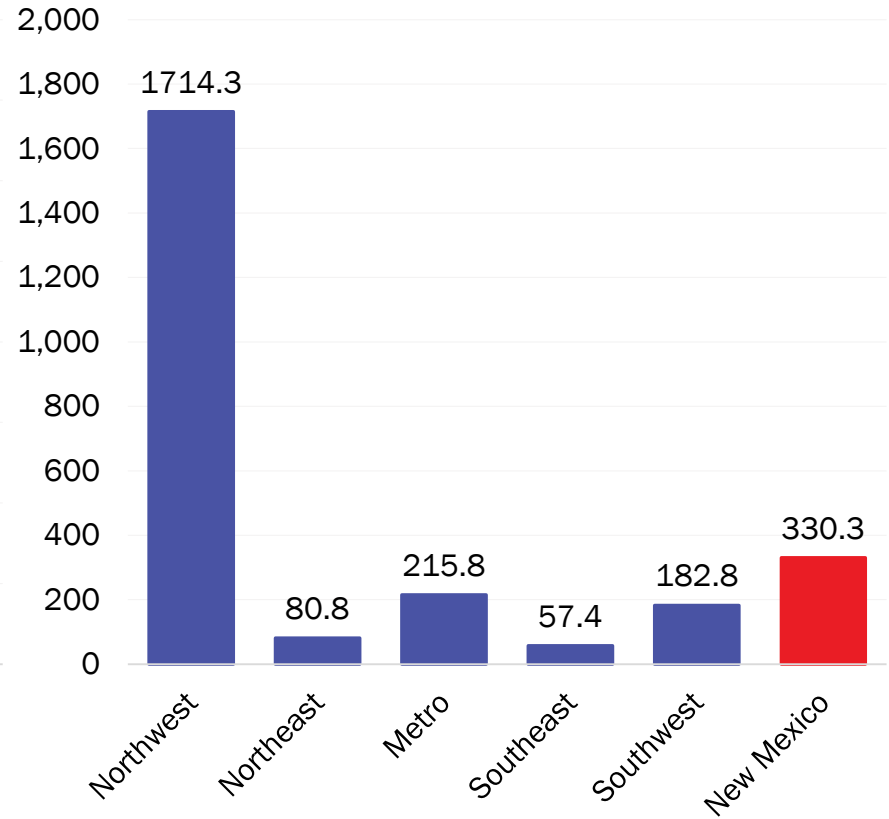
**COVID-19 Prevalence
per 100,000 population**

- 44.3 - 163.3
- 163.4 - 303.5
- 303.6 - 562.6
- 562.7 - 1075.7
- 1075.8 - 1805.6

As of May 20, 2020

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

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

As of May 20, 2020

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

May 18, 2020
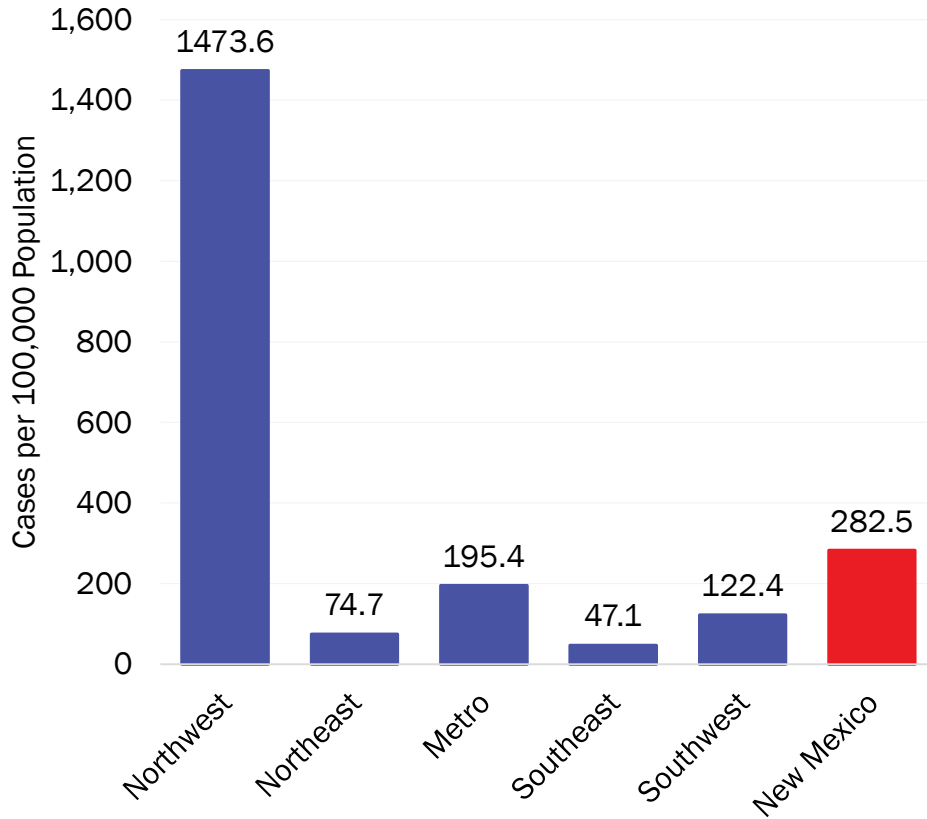
Bar chart, Cases per 100,000 Population:

Region	Rate
Northwest	1473.6
Northeast	74.7
Metro	195.4
Southeast	47.1
Southwest	122.4
New Mexico	282.5

May 25, 2020

Bar chart:

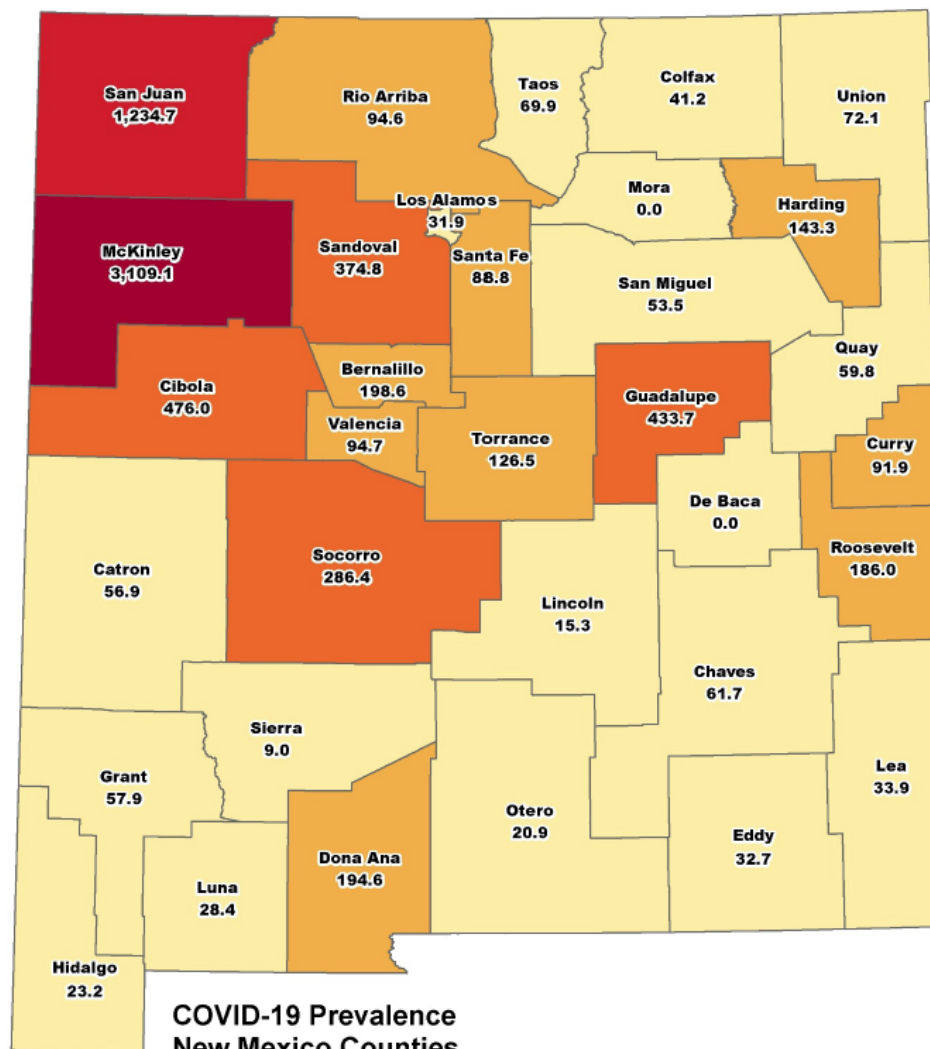| Region	Rate
Northwest	1714.3
Northeast	80.8
Metro	215.8
Southeast	57.4
Southwest	182.8
New Mexico	330.3

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 5.24.2020, New Mexico Department of Health. Population estimates, UNM Geospatial and Population Studies Program.

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

COVID-19 Prevalence
New Mexico Counties
Rate per 100,000 population
May 25, 2020

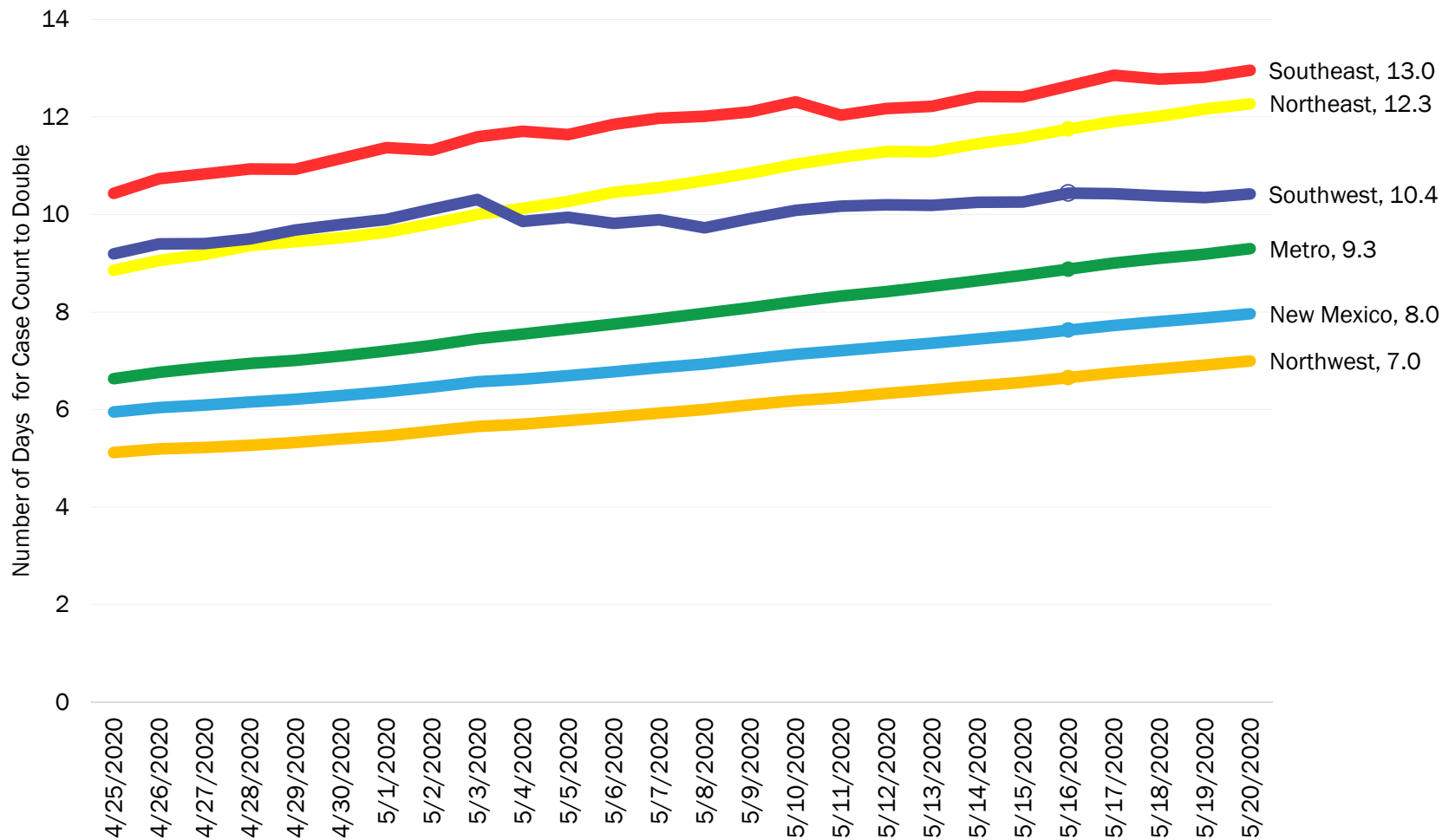# Prevalence: COVID-19 cases per 100,000 by NM county
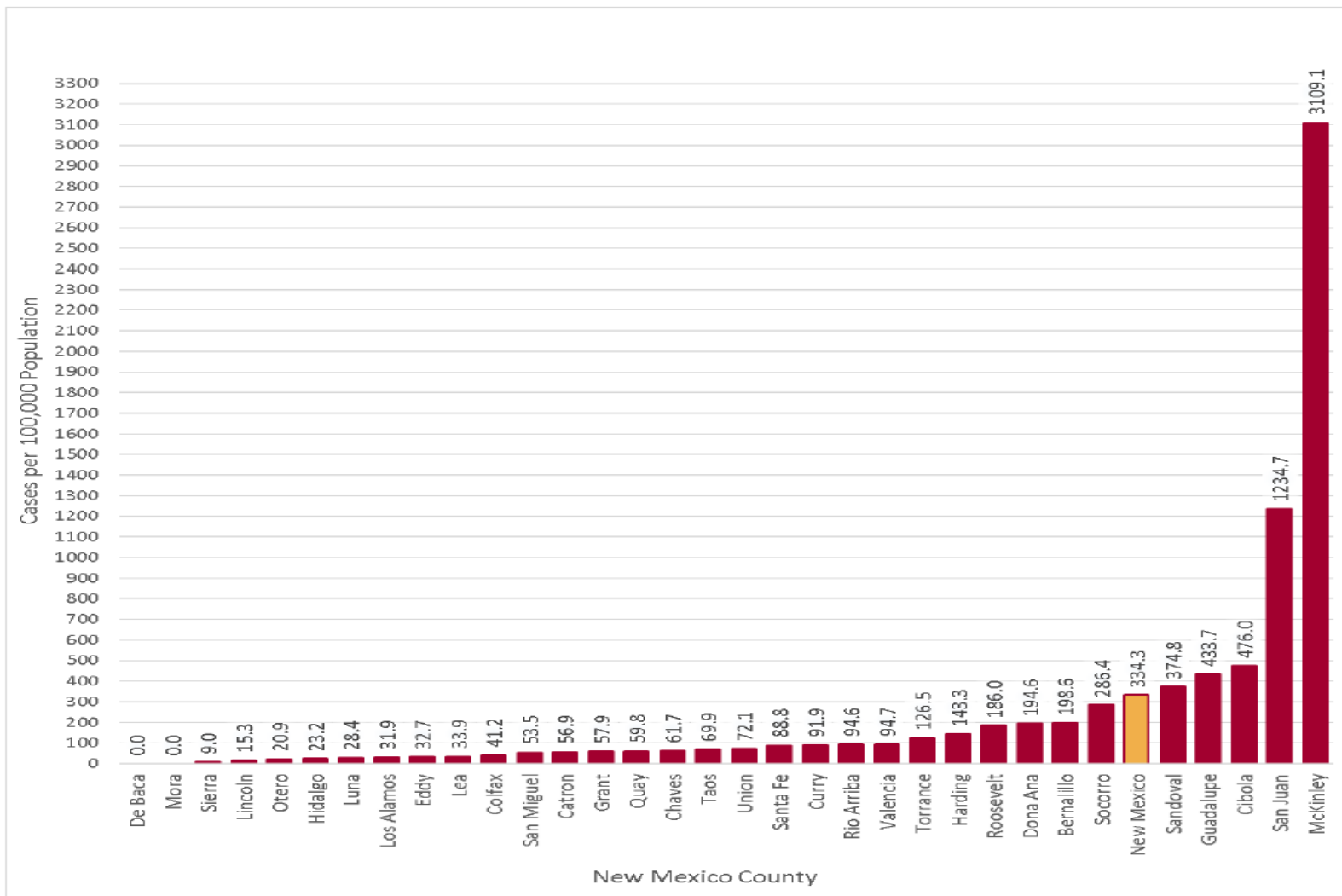
As of May 25, 2020

Projected doubling time

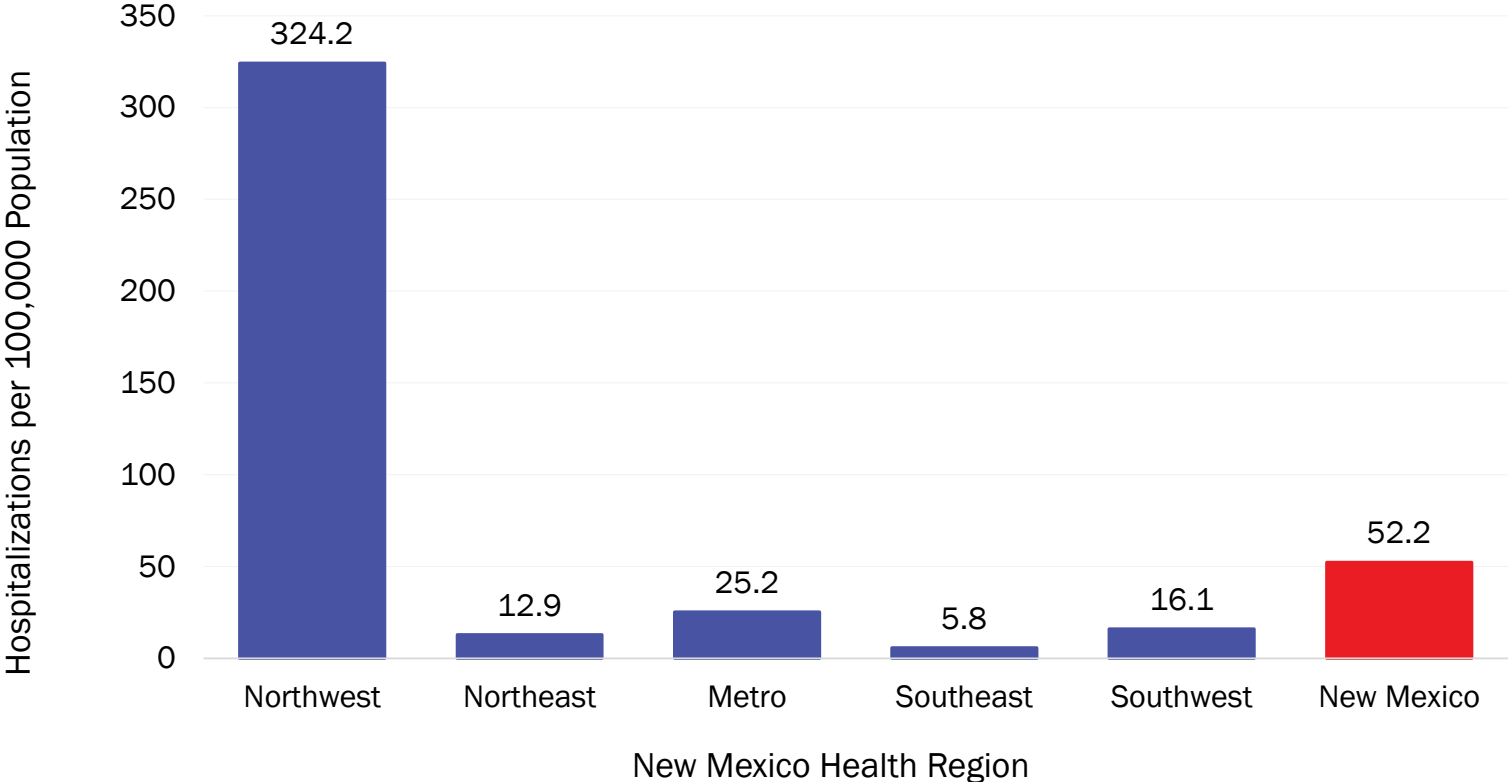Projected Doubling Time Based on Date of Test Specimen Collection and Cumulative Average Rate of Increase.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 5.25.2020, New Mexico Department of Health.

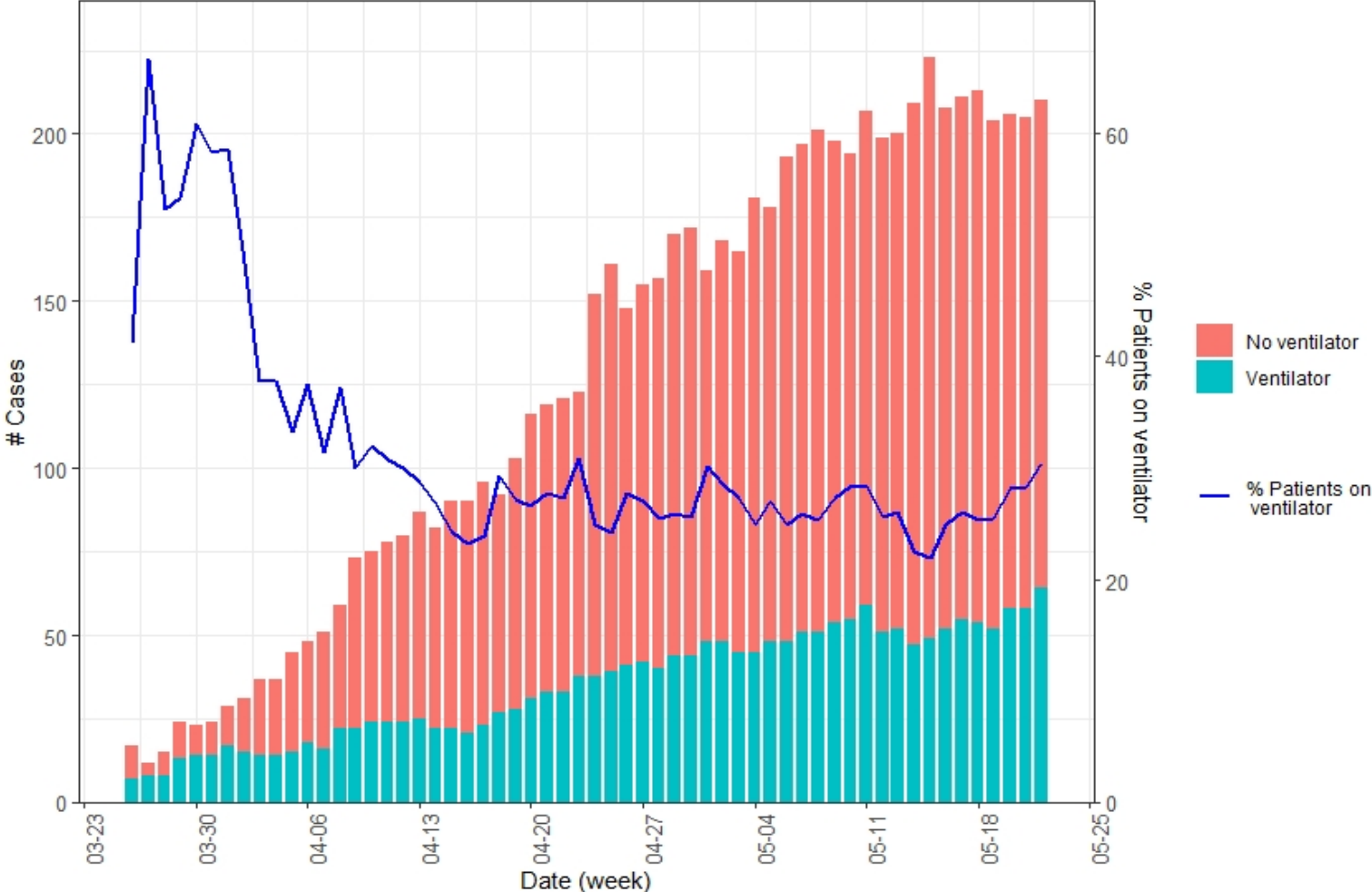# Hospitalization Rate: Number of COVID-19 cases per 100,000 population

Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 5.25.2020, New Mexico Department of Health. Population estimates, UNM Geospatial and Population Studies Program.

COVID-19 hospitalizations and ventilator use

As of May 22, 2020

COVID-19 hospitalizations by age group

Age group (years)	# Hospitalized cases (%)
<1	1 (0.10)
1-4	4 (0.38)
5-14	1 (0.1)
15-24	28 (2.7)
25-34	81 (7.8)
35-44	149 (14.3)
45-54	165 (15.9)
55-64	250 (24.1)
65-74	178 (17.1)
75-84	102 (9.8)
85+	80 (7.7)
All ages	1039

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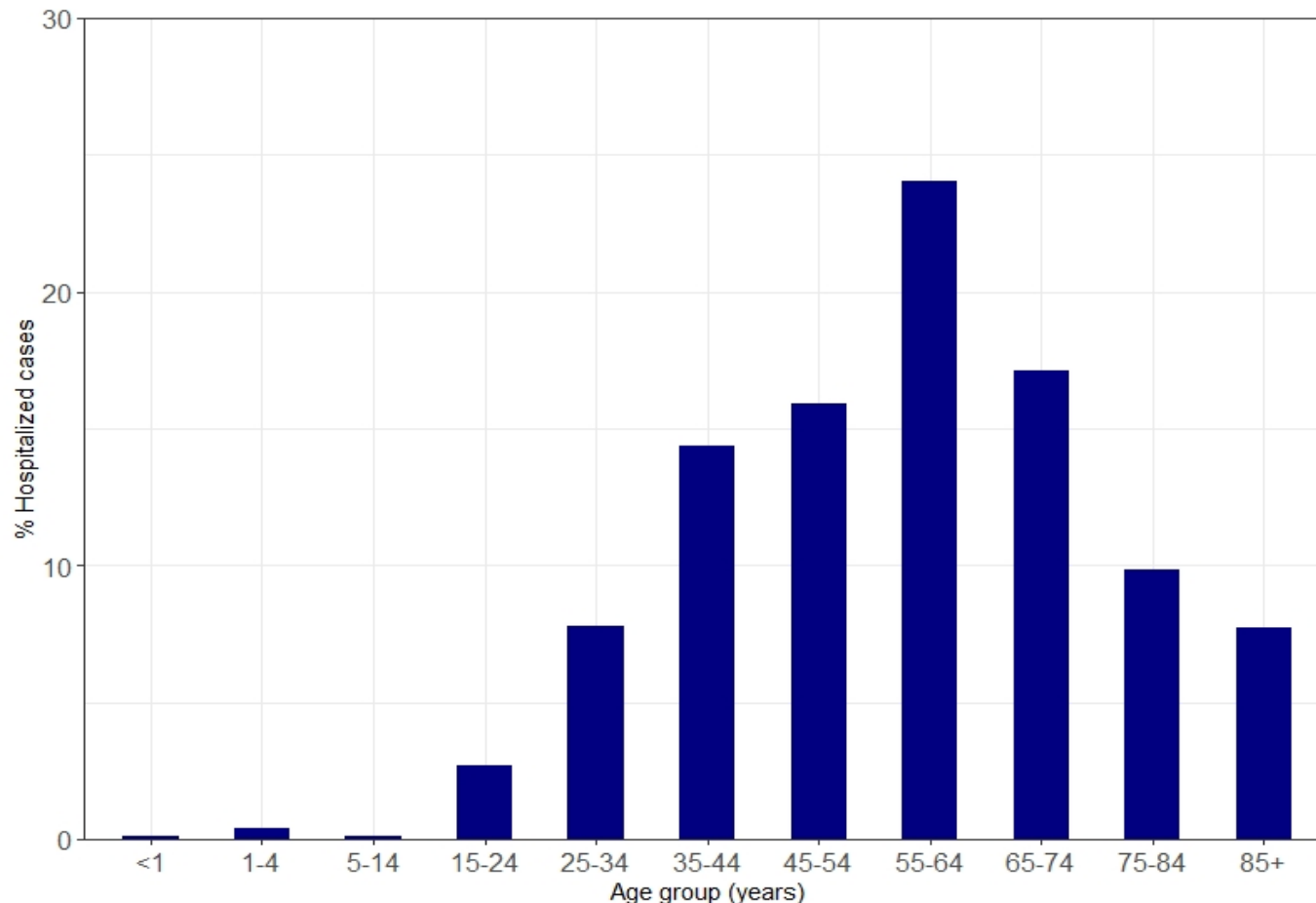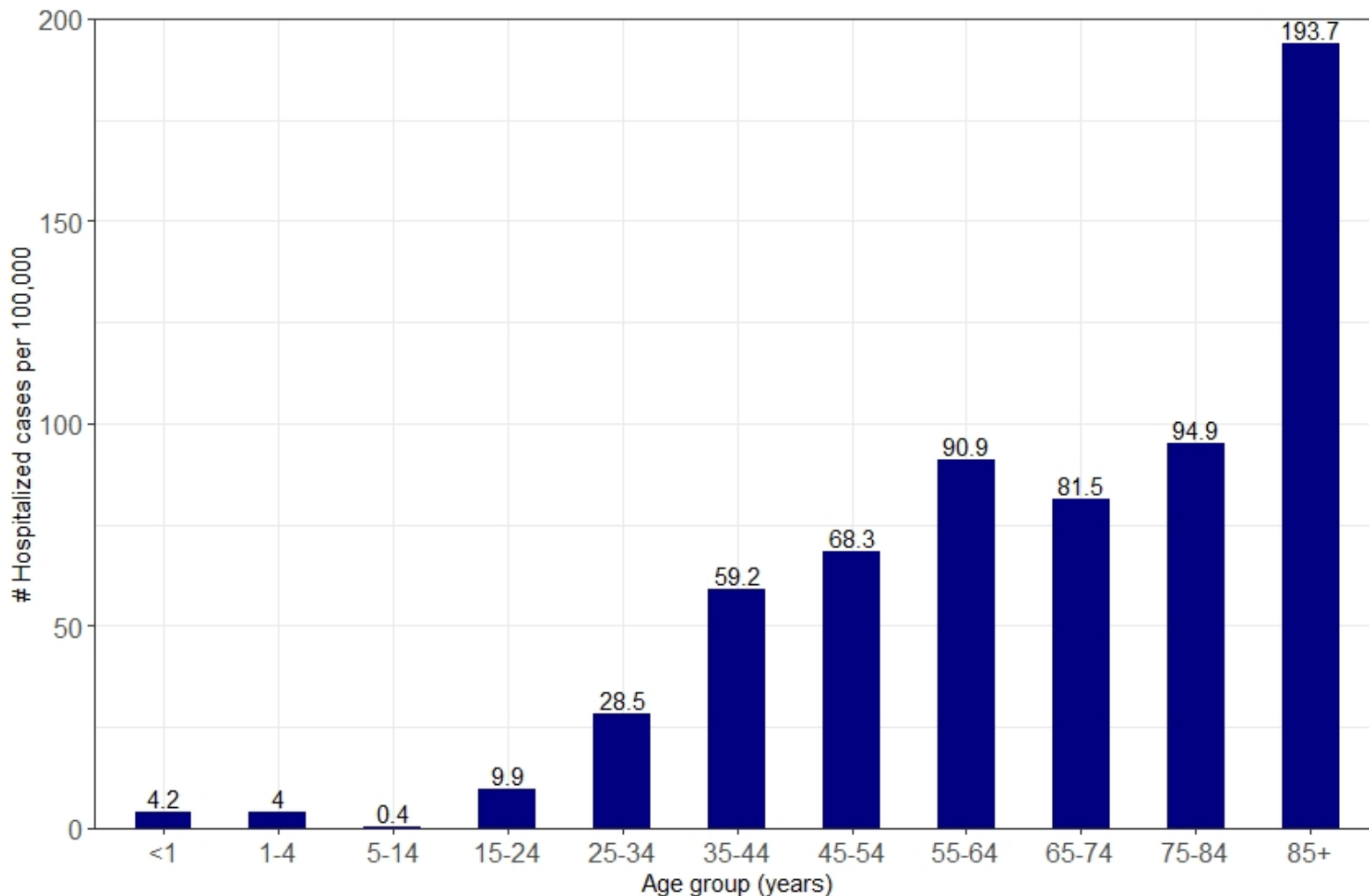
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COVID-19 age-specific hospitalization rates per 100,000 population

Source: NM Indicator-Based Information System (IBIS) was used for 2018 population estimates for each age group

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

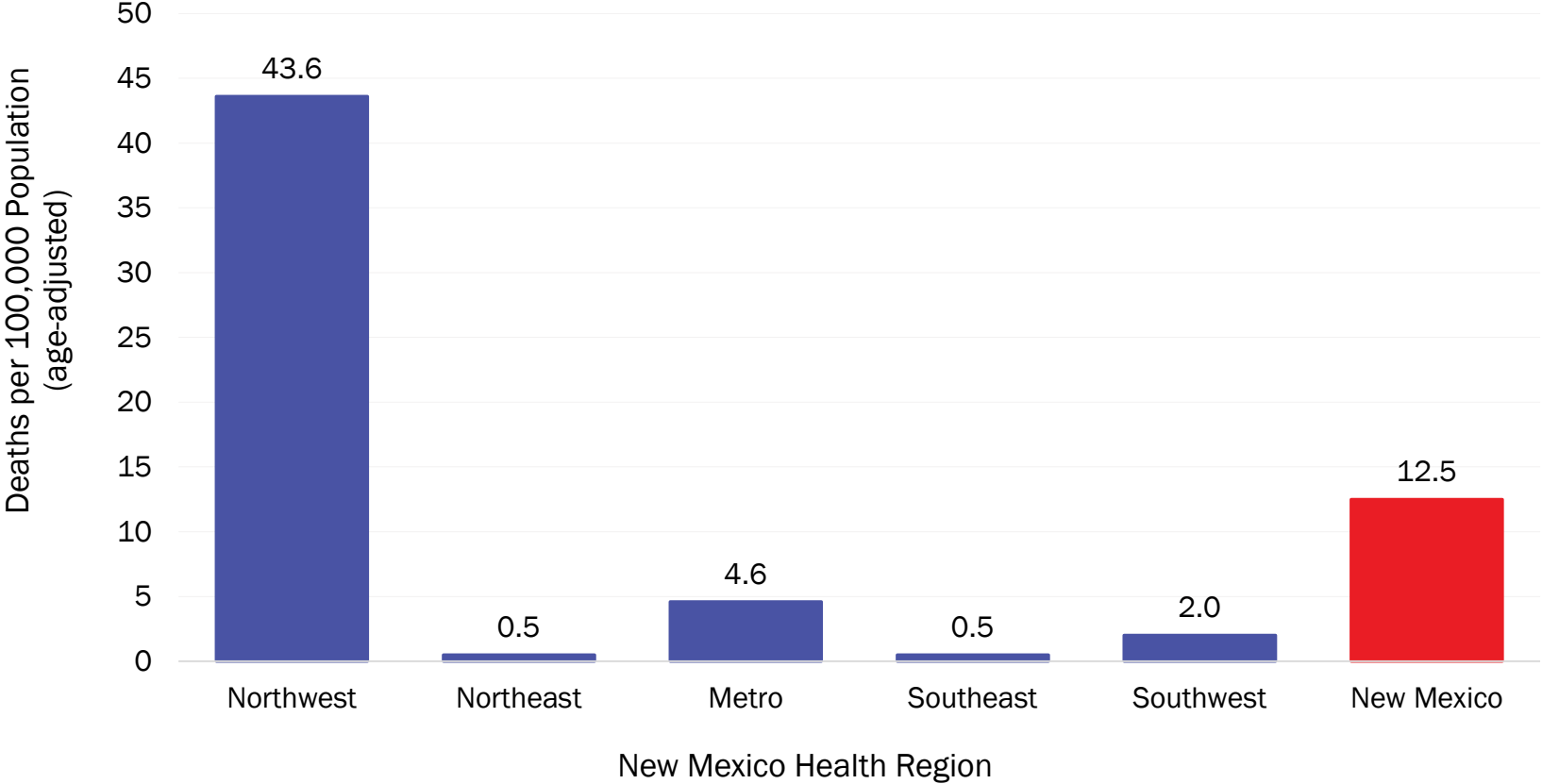| Race/ethnicity	Age-adjusted rate per 100,000 population
American Indian or Alaska Native	409.6
Asian	14.3
Black or African American	27.4
Hispanic or Latino	15.6
White	10.2

Note:

8 hospitalized cases excluded due to missing race information

1 hospitalized case was excluded because it was "Other Race" and there is no population estimate for "Other Race" in NM-IBIS

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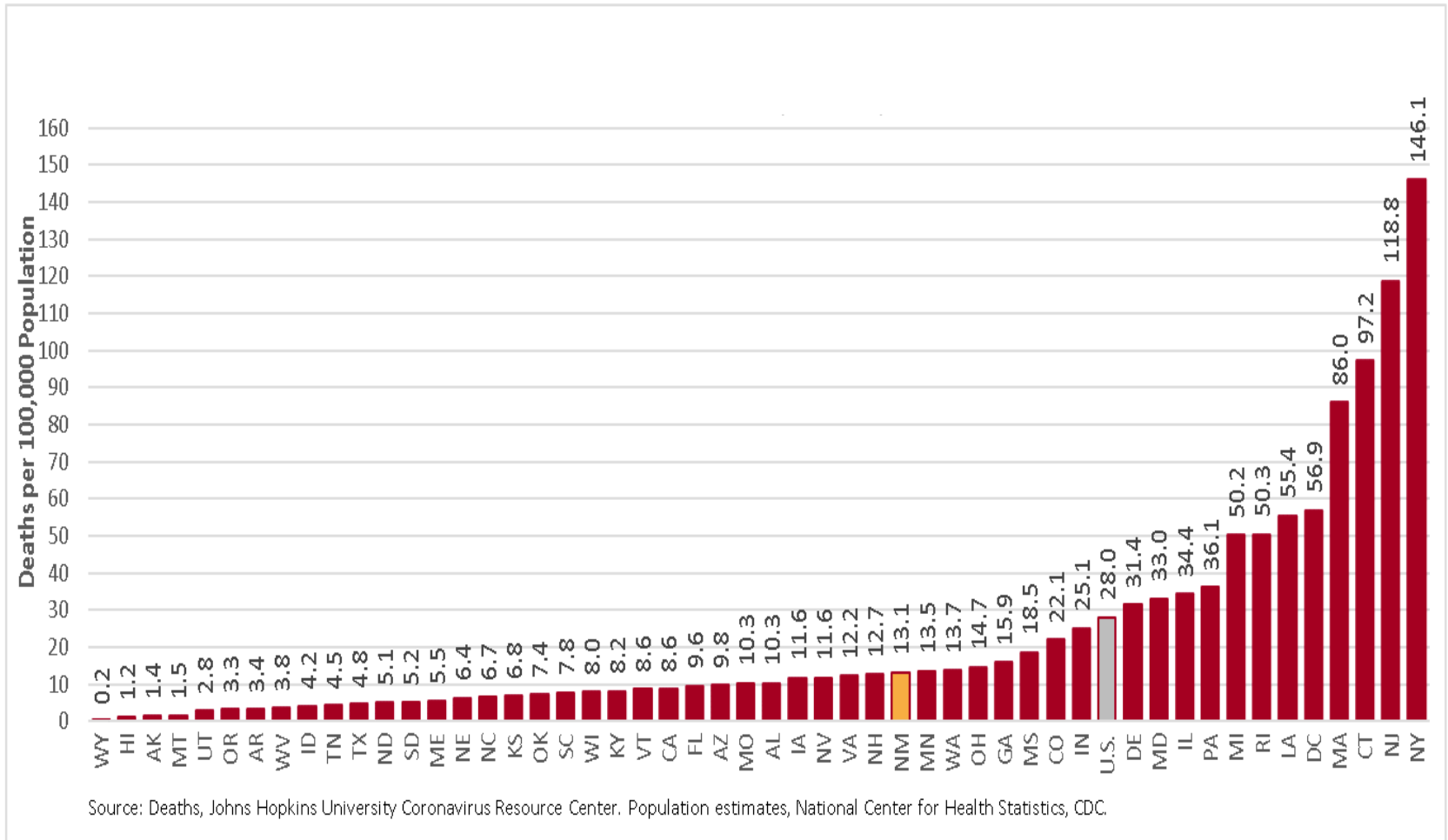# Mortality Rate: Number of COVID-19 deaths per 100,000 population

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 5.24.2020, New Mexico Department of Health. Population estimates, UNM Geospatial and Population Studies Program.
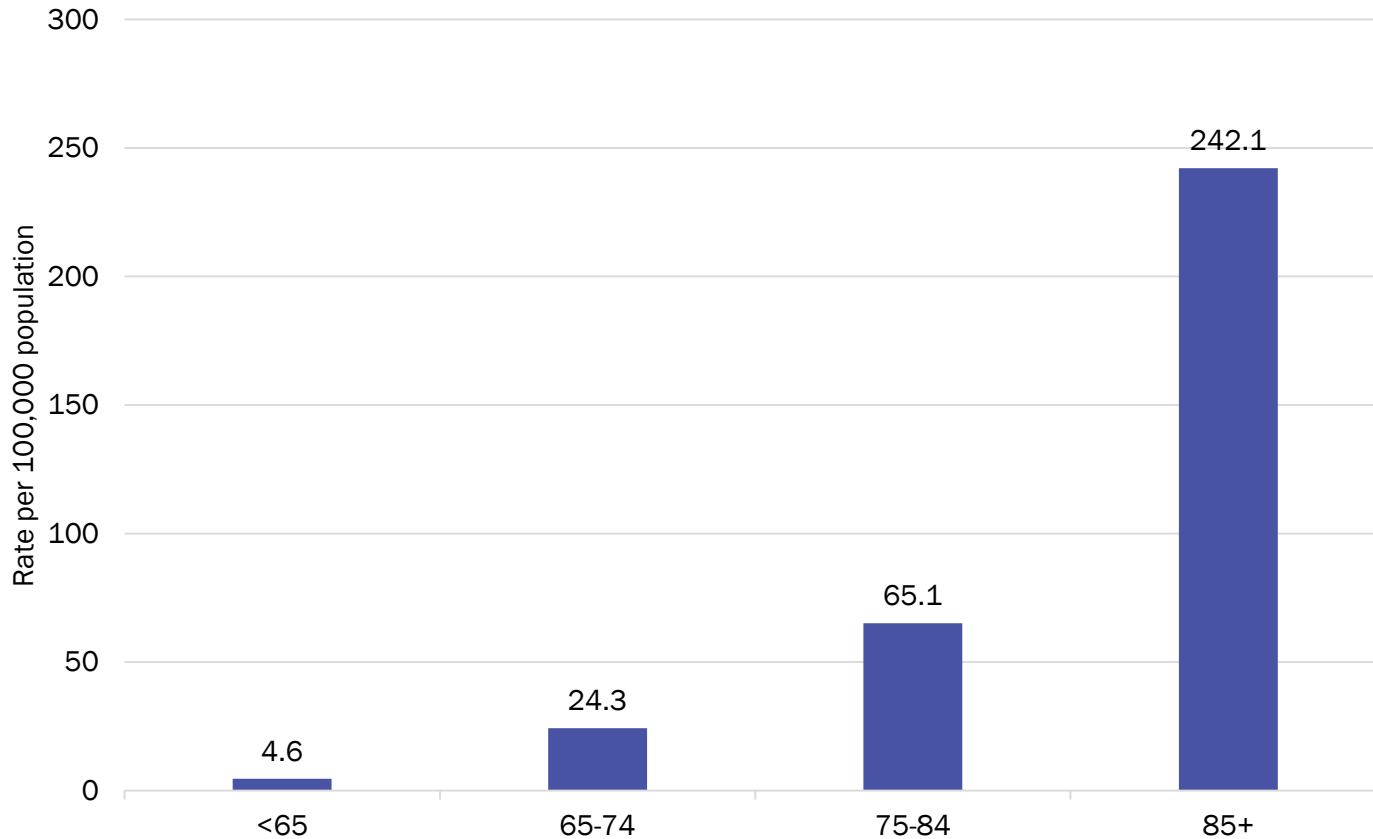
Crude death rate: COVID-19 deaths per 100,000 by U.S. states

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

As of May 20, 2020

Number of COVID-19 crude mortality rate by age group

As of May 22, 2020

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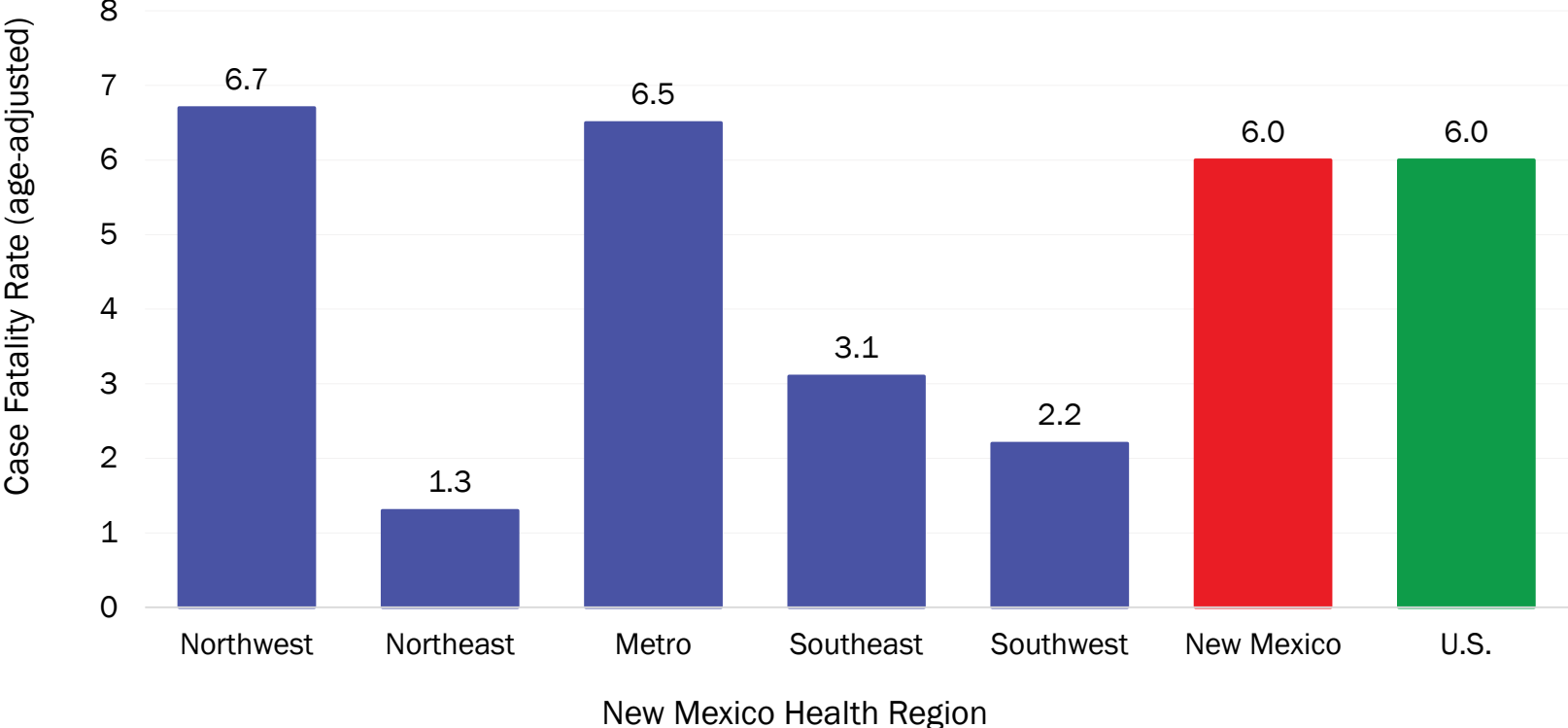
Number of COVID-19 age-adjusted mortality rate by race/ethnicity
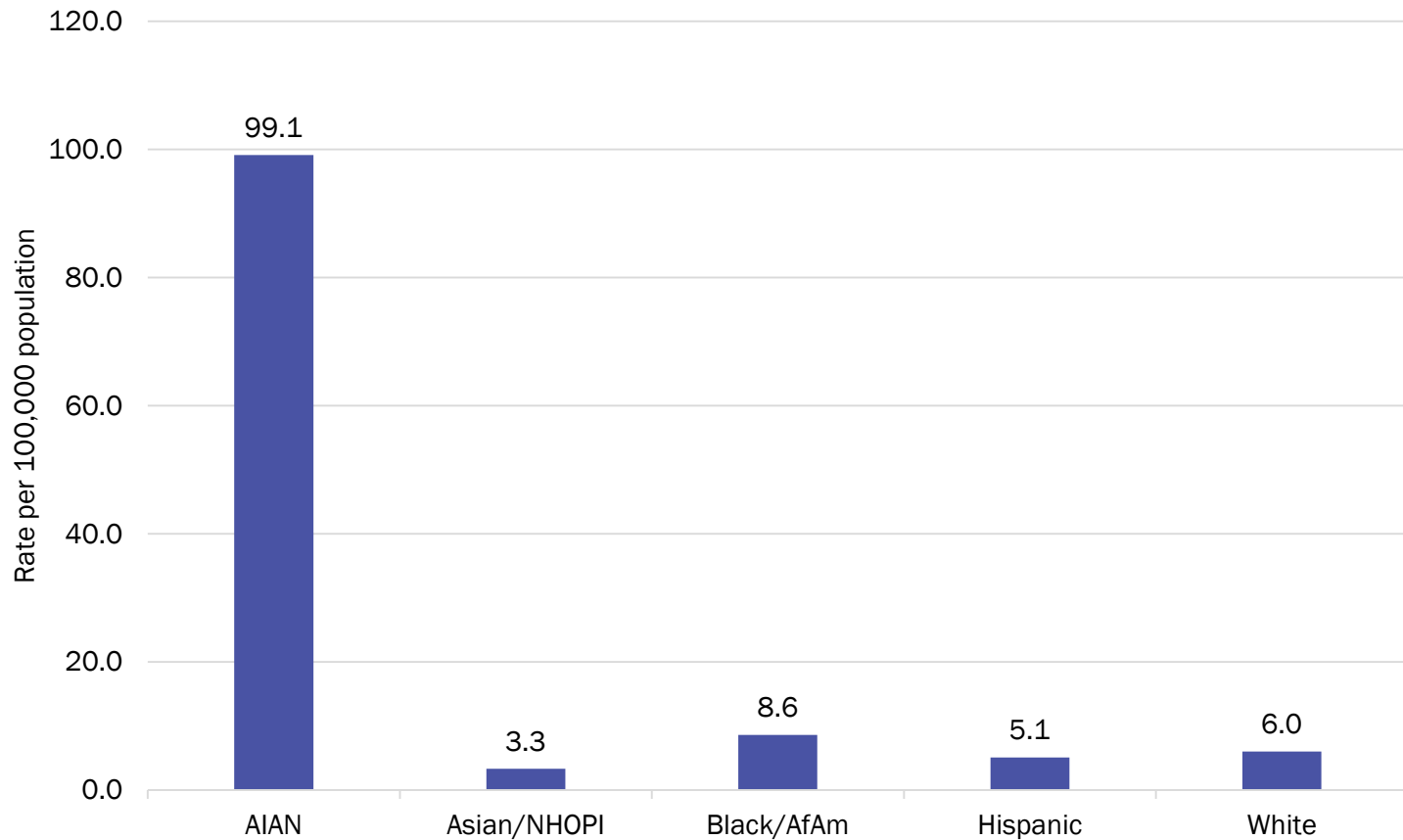
As of May 22, 2020

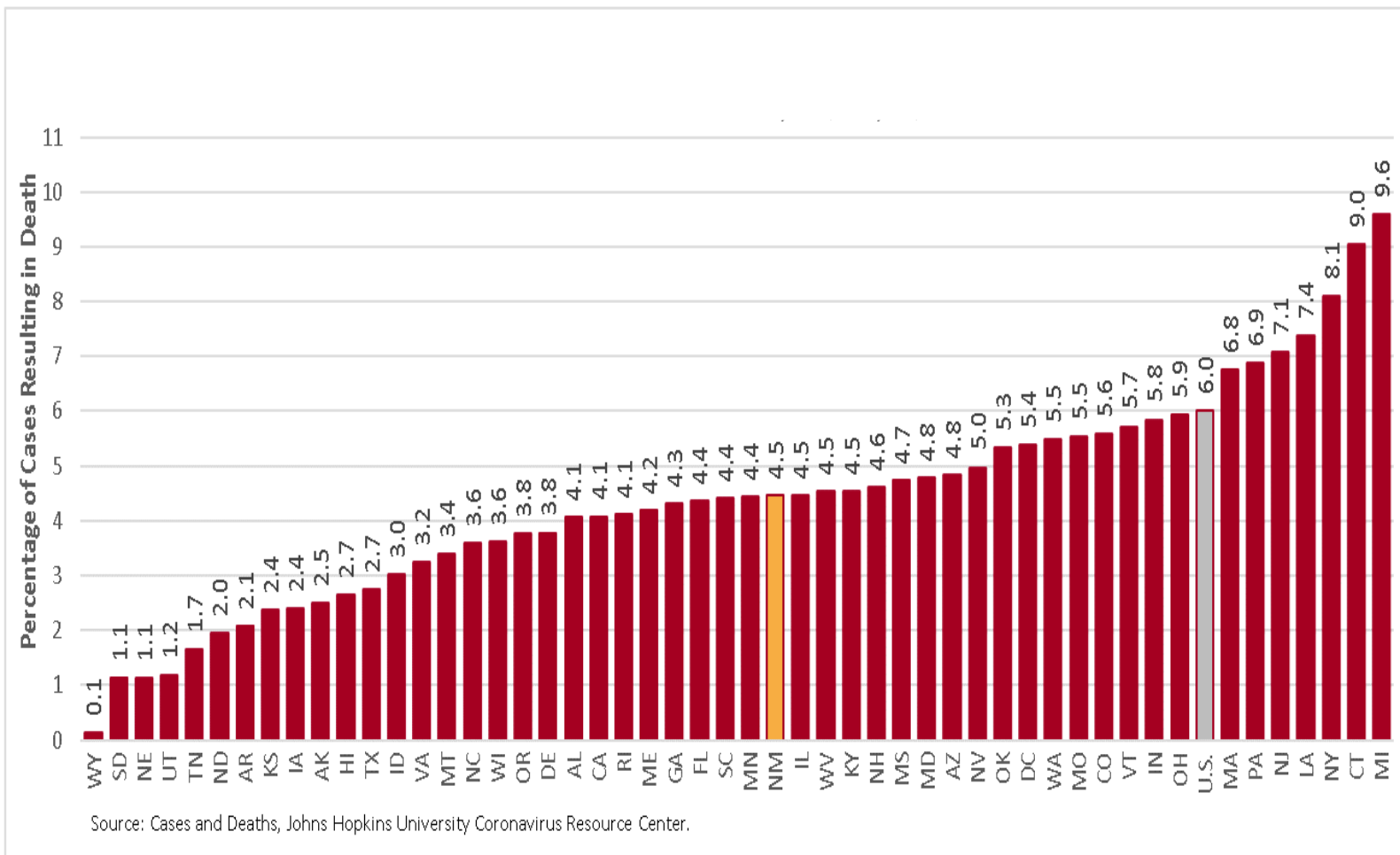# Case Fatality Rate: Percentage of COVID-19 cases resulting in death

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 5.24.2020, New Mexico Department of Health.

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

Source: Cases and Deaths, Johns Hopkins University Coronavirus Resource Center.

As of May 20, 2020

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Key points

- COVID-19 prevalence continues to increase across all regions in NM
  - 22nd highest prevalence in the U.S.
  - AI/AN have highest burden of disease across all health regions except the SE where Hispanic or Latinos are most affected
  - Highest prevalence rates in Sandoval, Guadalupe, Cibola, San Juan, and McKinley counties
  - Median age of cases across all race/ethnicity groups is below 50 years old except Whites who tend to be older (median age: 60 years old)
  - Doubling times for all regions continue to increase including the SW region

- Hospitalization rates continue to increase across all regions with the highest rates in NW, Metro, and SW
  - Ventilator use remains at ~25-30% of hospitalized cases
  - Highest rates in McKinley, San Juan, Socorro, and Cibola counties (>50 cases/100,000)
  - The elderly and AI/AN groups continue to have the highest rates of hospitalizations
  - Hospitalized cases who self-identify as White tend to be older (median age: 70 years old)

- Mortality rates and case-fatality rates (CFRs) are highest in the NW region followed by Metro Region
  - 20th highest mortality rate in the U.S.
    - Highest in 85+ age group and AI/AN population
  - Age at death is higher in Whites than other race/ethnicity groups
  - NM CFR is equal to U.S. CFR after age-adjustment
    - NW and Metro regions have CFRs that are higher than the U.S. rate
    - CFRs in SE and SW have decreased since last week
    - 24th highest CFR in the U.S. (not age-adjusted)

COVID-19 in New Mexico: modeling update

As of May 26, 2020
Epidemiology & Response Division

The effective rate of transmission for the state has decreased slightly since last week.
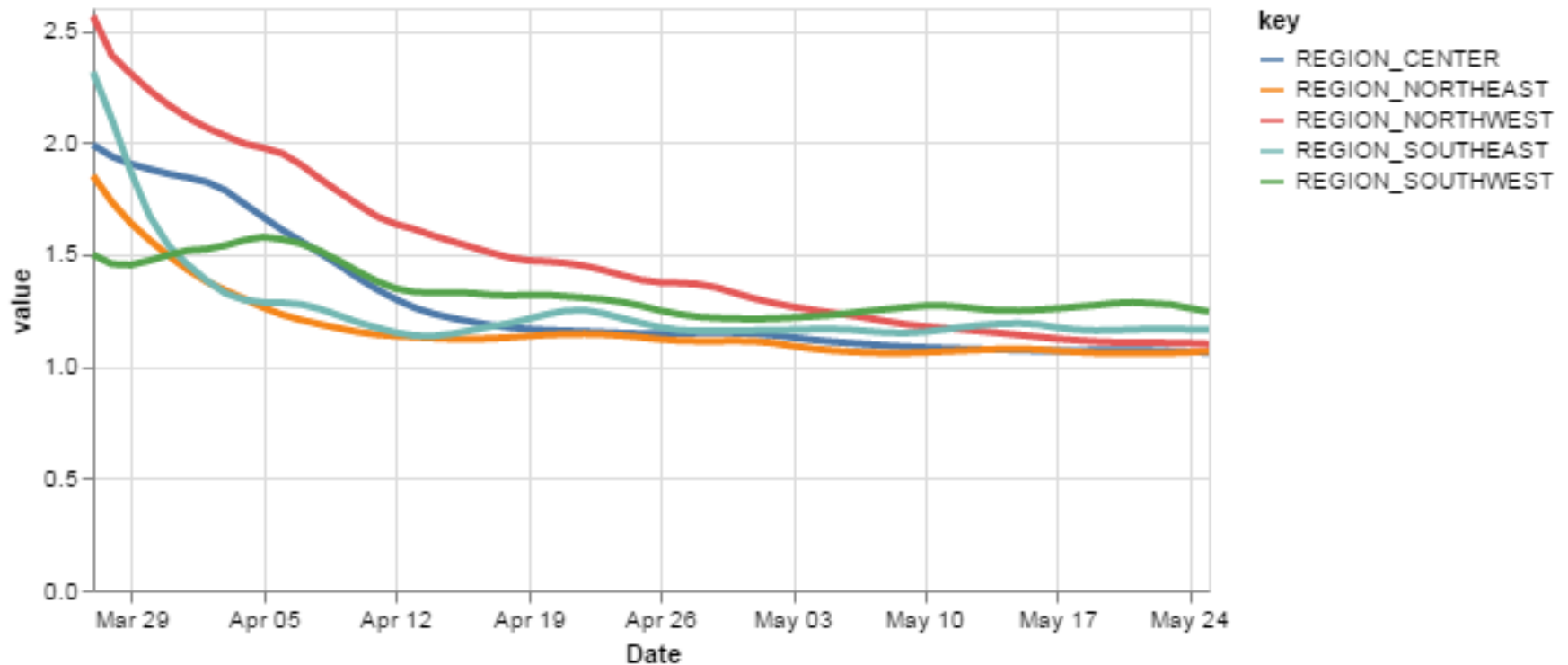
R_effective over time, state

1.10
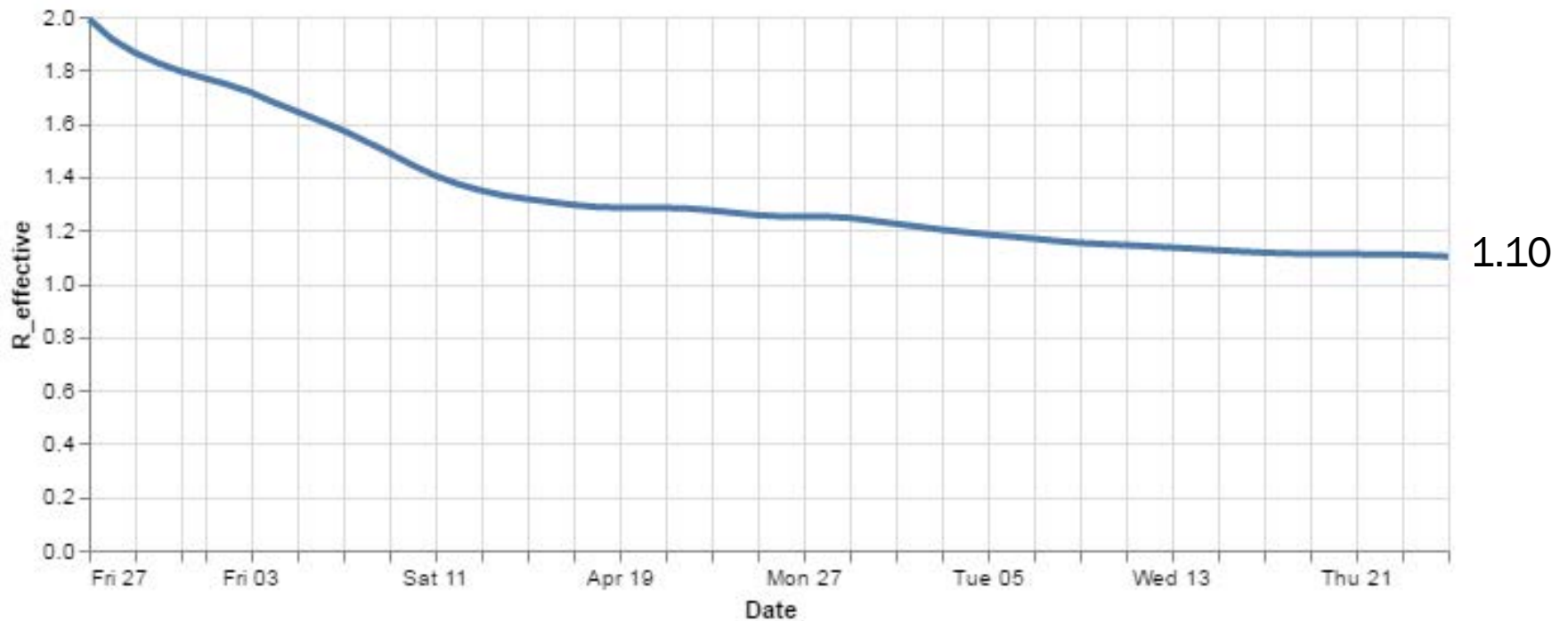
Courtesy of Presbyterian Healthcare Services - May 26, 2020.

The Southwest region now has the highest rate of transmission at 1.24.

R_effective over time, regions

Courtesy of Presbyterian Healthcare Services - May 26, 2020.

Northwest
R_effective 1.10 ↓

Northeast
R_effective 1.07 ↓

Central
R_effective 1.06 ↓

Key

Low Level Endemic
1-1.1
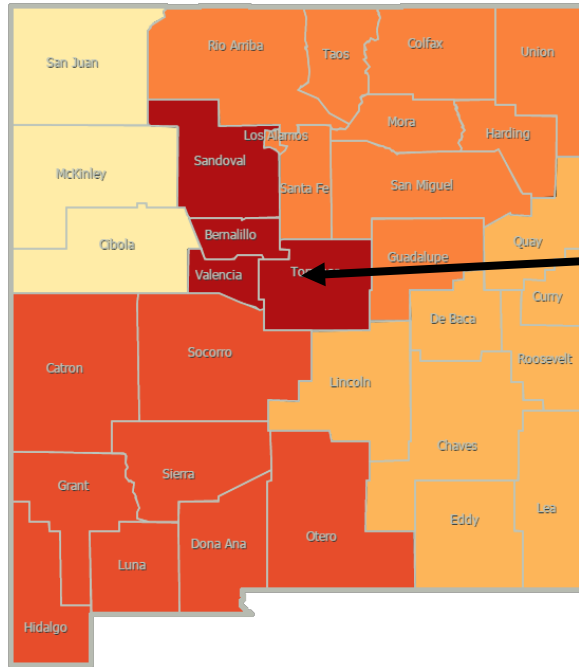
Approaching Low
Level Endemic
1.11-1.15

Requiring further
mitigation >1.15

Southwest
R_effective 1.24 ↑

Southeast
R_effective 1.16 ↓

As of May 19, 2020

Northwest
R_effective 1.15 ↓

Northeast
R_effective
1.09 ↑

Central
R_effective
1.07 ↓

Southwest
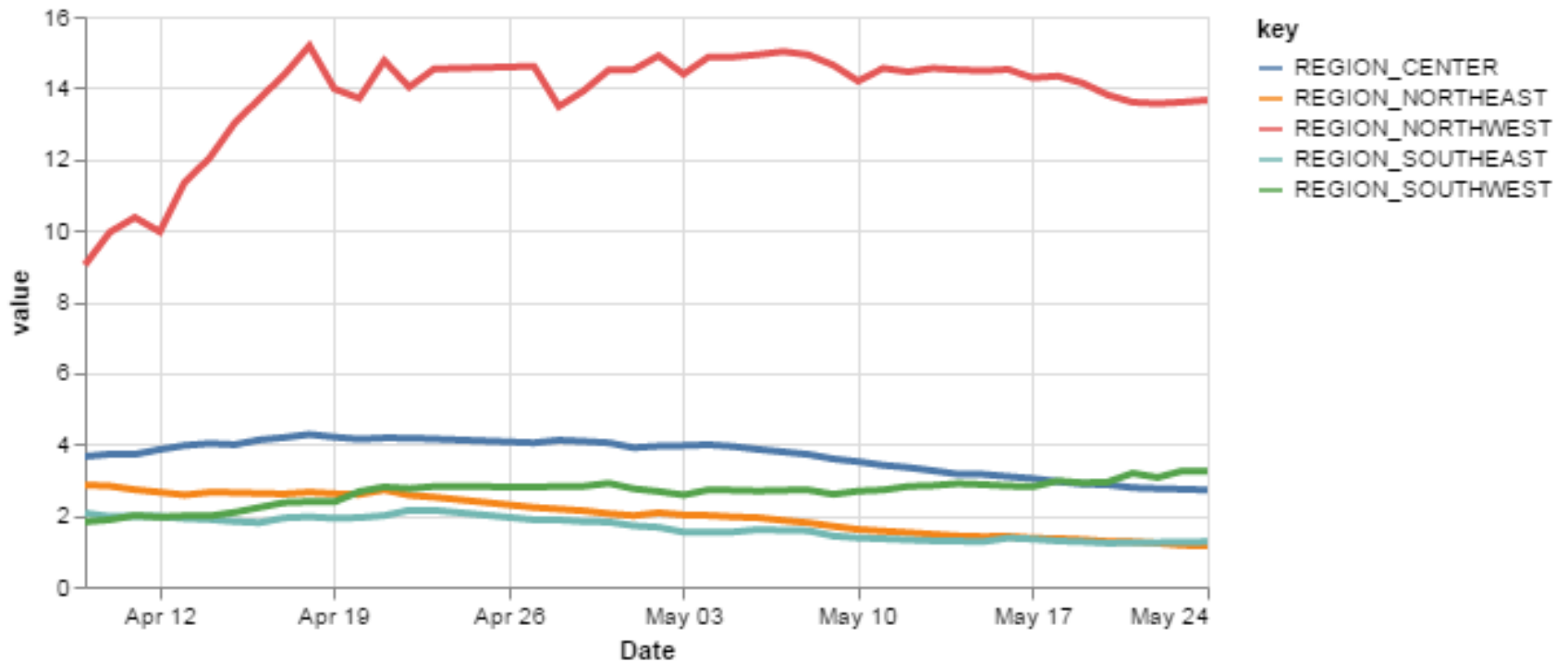R_effective 1.17 ↓

Southeast
R_effective 1.22 ↑

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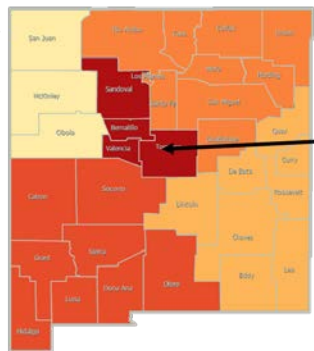
Southwest is the only region where percent positive tests have increased during May.

Positive test rate (%), regions

key
- REGION_CENTER
- REGION_NORTHEAST
- REGION_NORTHWEST
- REGION_SOUTHEAST
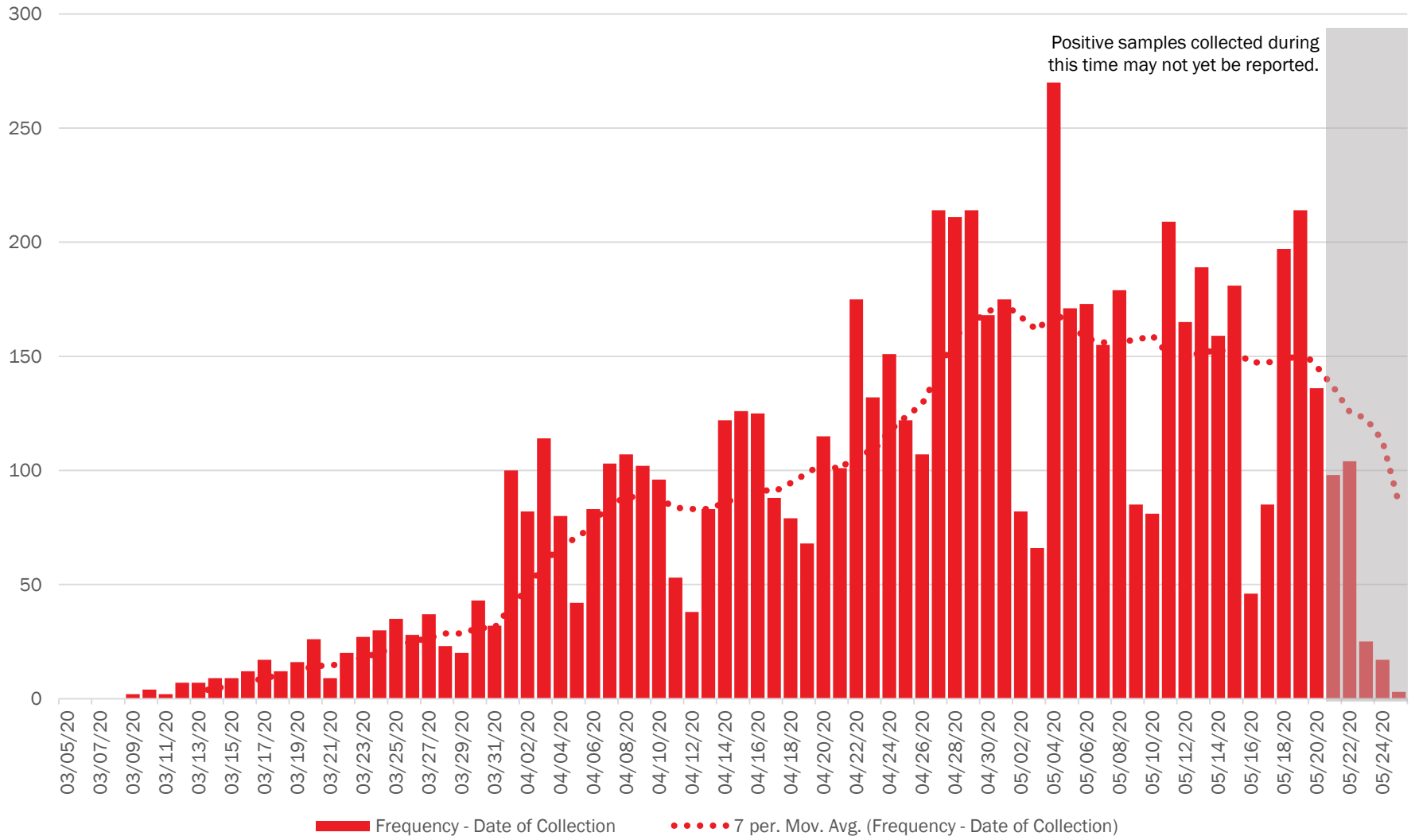- REGION_SOUTHWEST

Courtesy of Presbyterian Healthcare Services - May 26, 2020.

New Mexico COVID-19 Cases by Date of Specimen Collection - 5/26/20

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

Frequency - Date of Collection ••••• 7 per. Mov. Avg. (Frequency - Date of Collection)

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New Mexico COVID-19 Cases by Date of Illness Onset - 5/26/20

Cases with illness onset during this time may not yet be reported.

Frequency - Date of Onset   7 per. Mov. Avg. (Frequency - Date of Onset)

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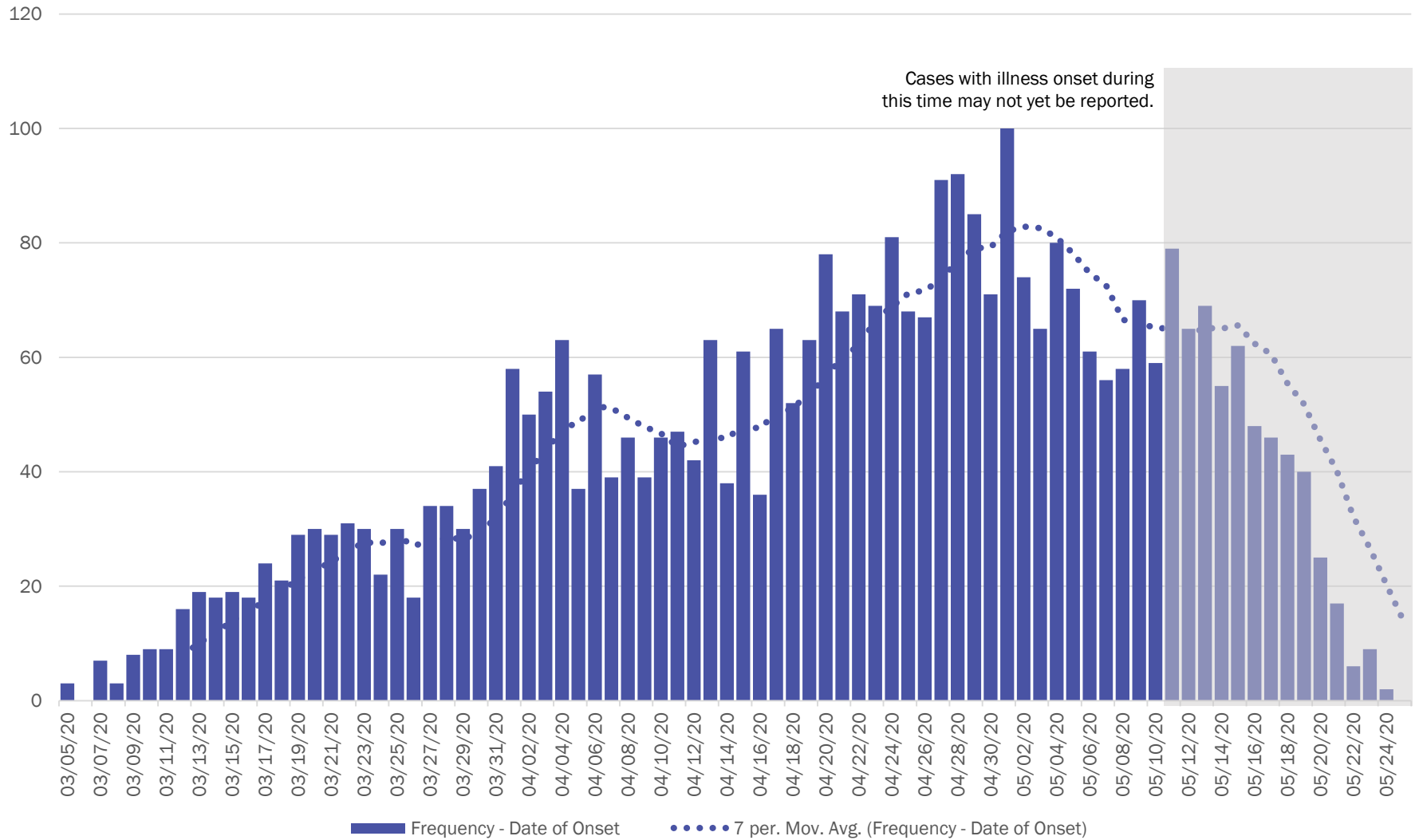
Case Count by Week of New Mexico Cases - 5/21/20
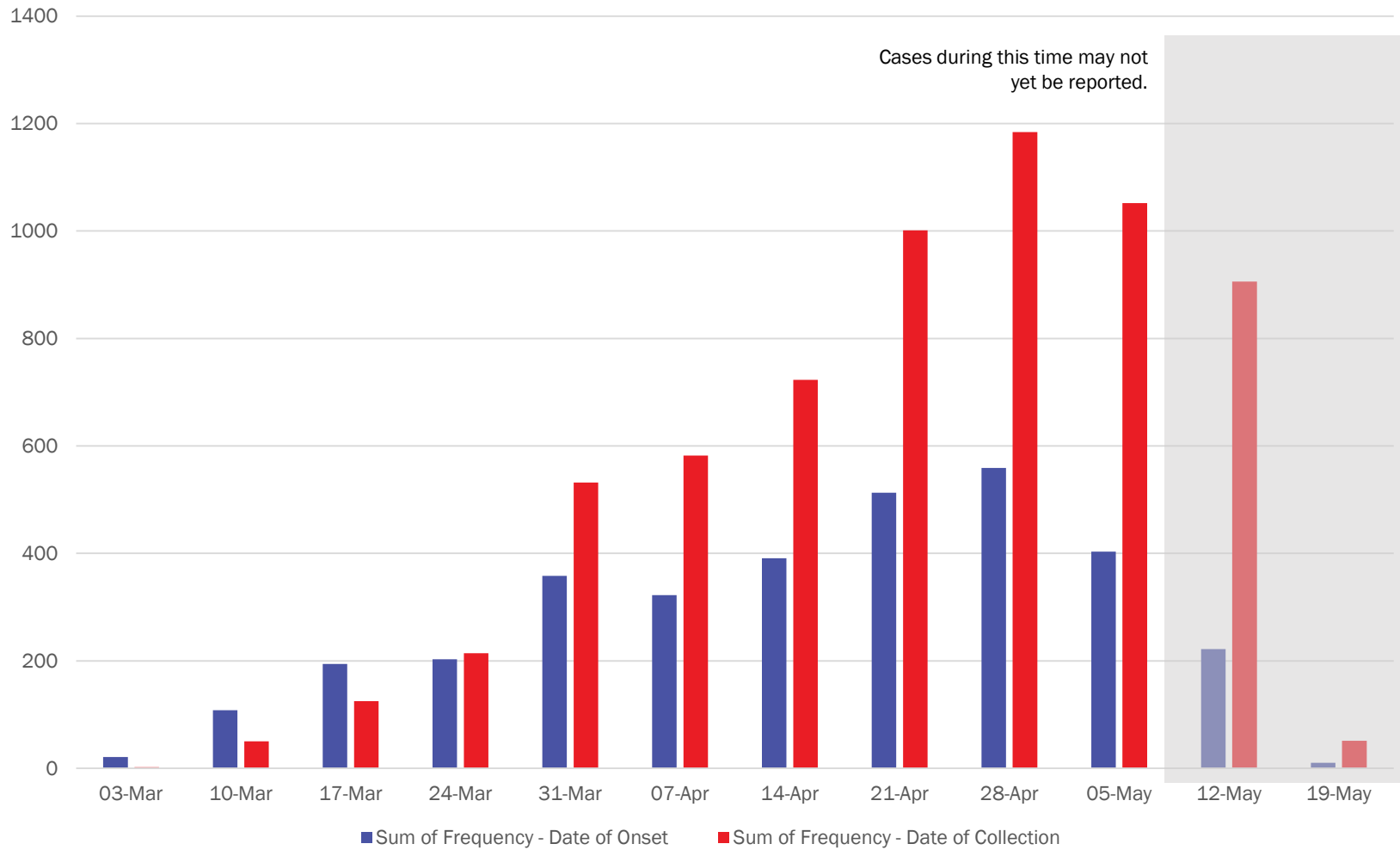
Supplementary Slide

Modeling Assumptions

Variable	Measured Value	Value as of 5.18.20
R_Effective	Actual Measured Daily Value by key county	R_eff=1.10
Positive Test Multiplier	Calculated by LANL	4.6
Hospitalization and Mortality	Actual rolling value / estimated number of total infected	Medical 0.4% ICU 0.3% Vent Rate 66.3% 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