



A Longitudinal Analysis of Unintentional Overdose Deaths of the United States & California

November 2023

**Prepared by
The National Emerging Threats Initiative
J. David Hamby, National Coordinator**

Introduction

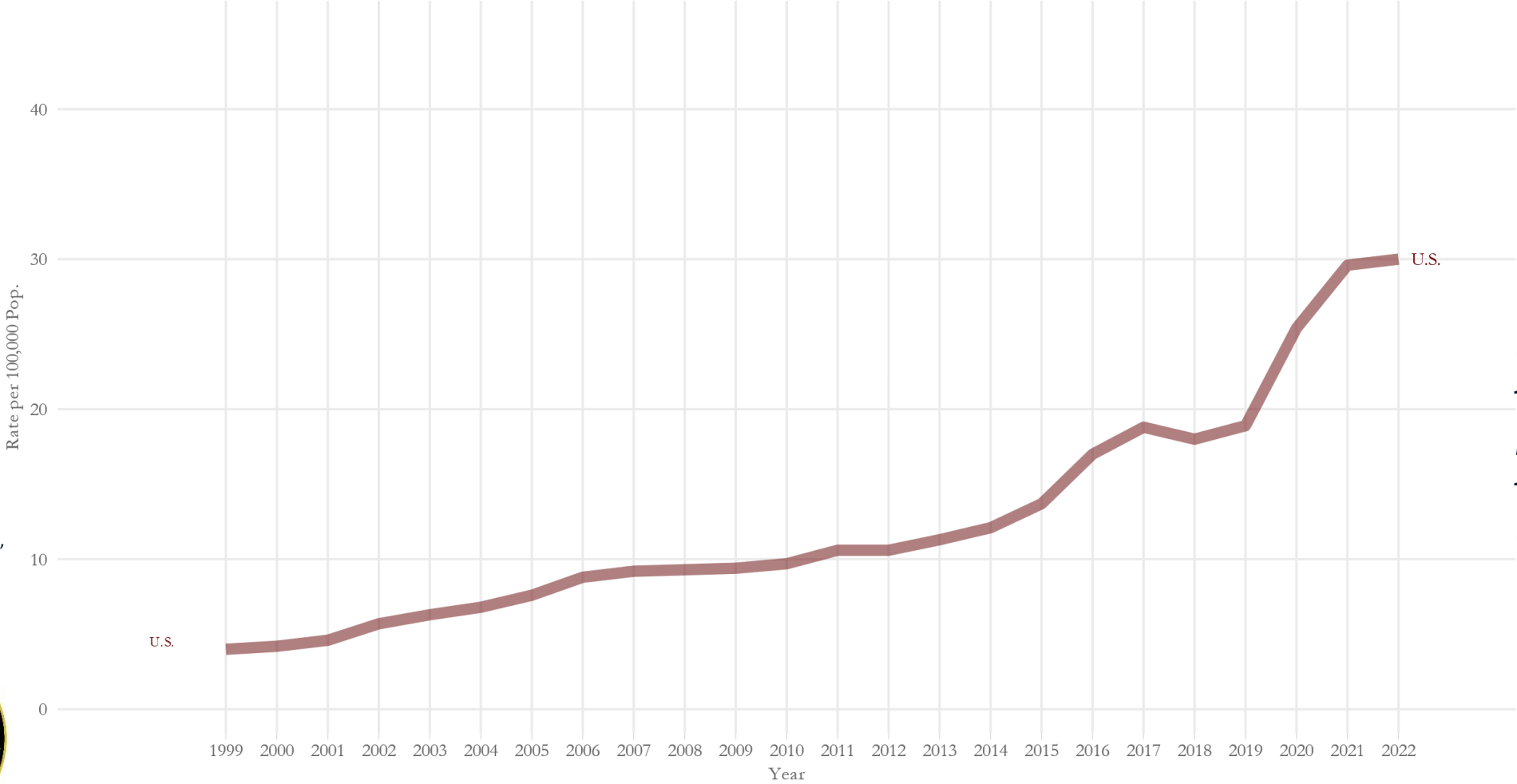
This report is based on an analysis of unintentional drug overdose death rates per 100,000 population. The document was prepared by The National Emerging Threats Initiative (NETI), an arm of HIDTA, designated to aggregate and summarize drug seizure, overdose and other data sets relevant to identifying emerging drug threats in our society.

NETI will issue routine reports on overdose and other topics relevant to substance abuse. Please feel free to share your perspective on how our reports can be improved to meet your organization's and community's information needs.

J. David Hamby, National Coordinator
NETI



Overdose Death Rate per 100,000 1999 - 2022

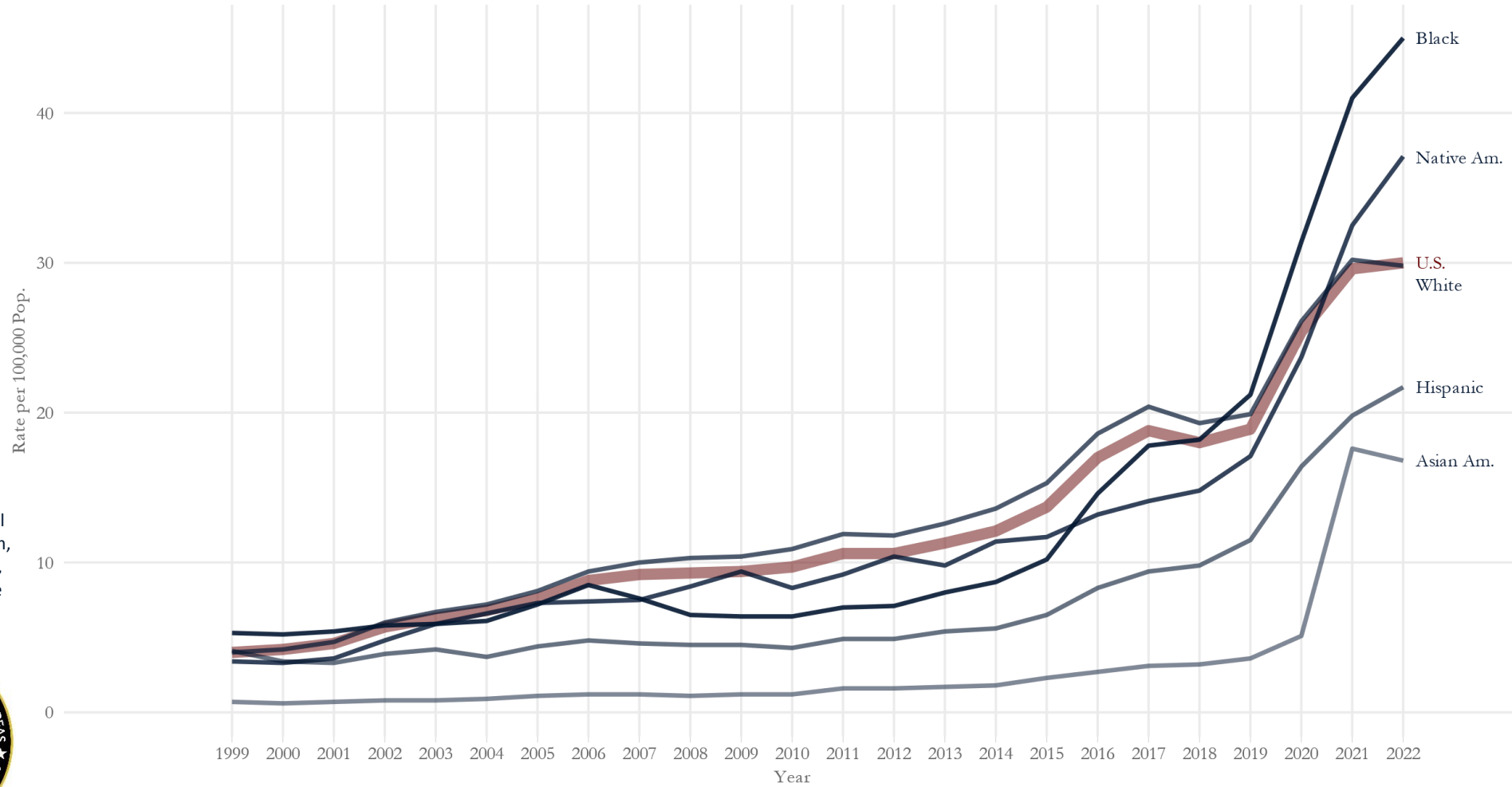


Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.

This figure represents the final U.S. overdose death rate for the years 1999 through 2021 and the provisional death rate for 2022. (unintentional overdose deaths only)



Overdose Death Rate by Race per 100,000 for 1999 - 2022

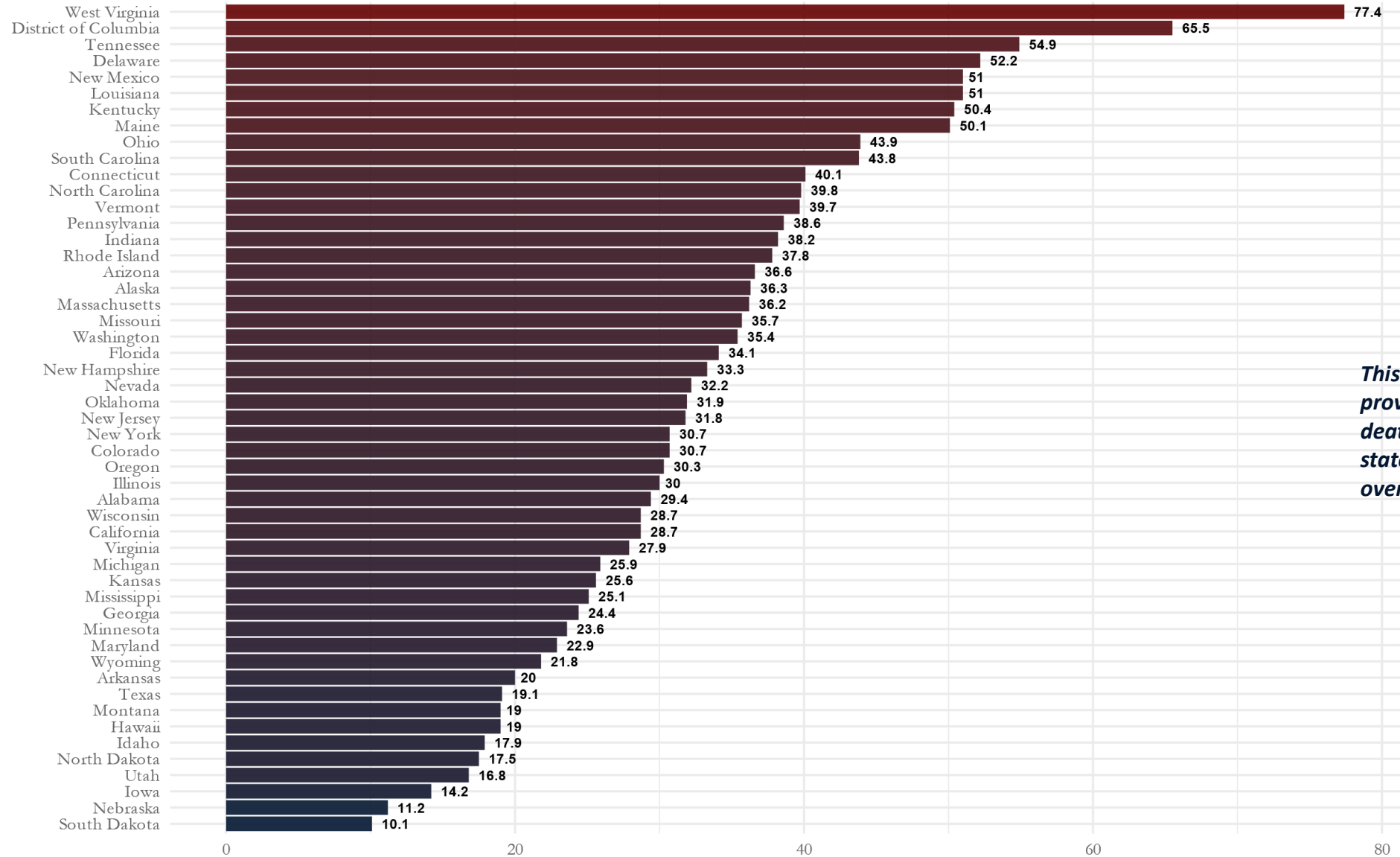


This figure represents the final U.S. overdose death rate for the years 1999 through 2021 and the provisional death rate for 2022. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Overdose Death Rate Calendar Year 2022

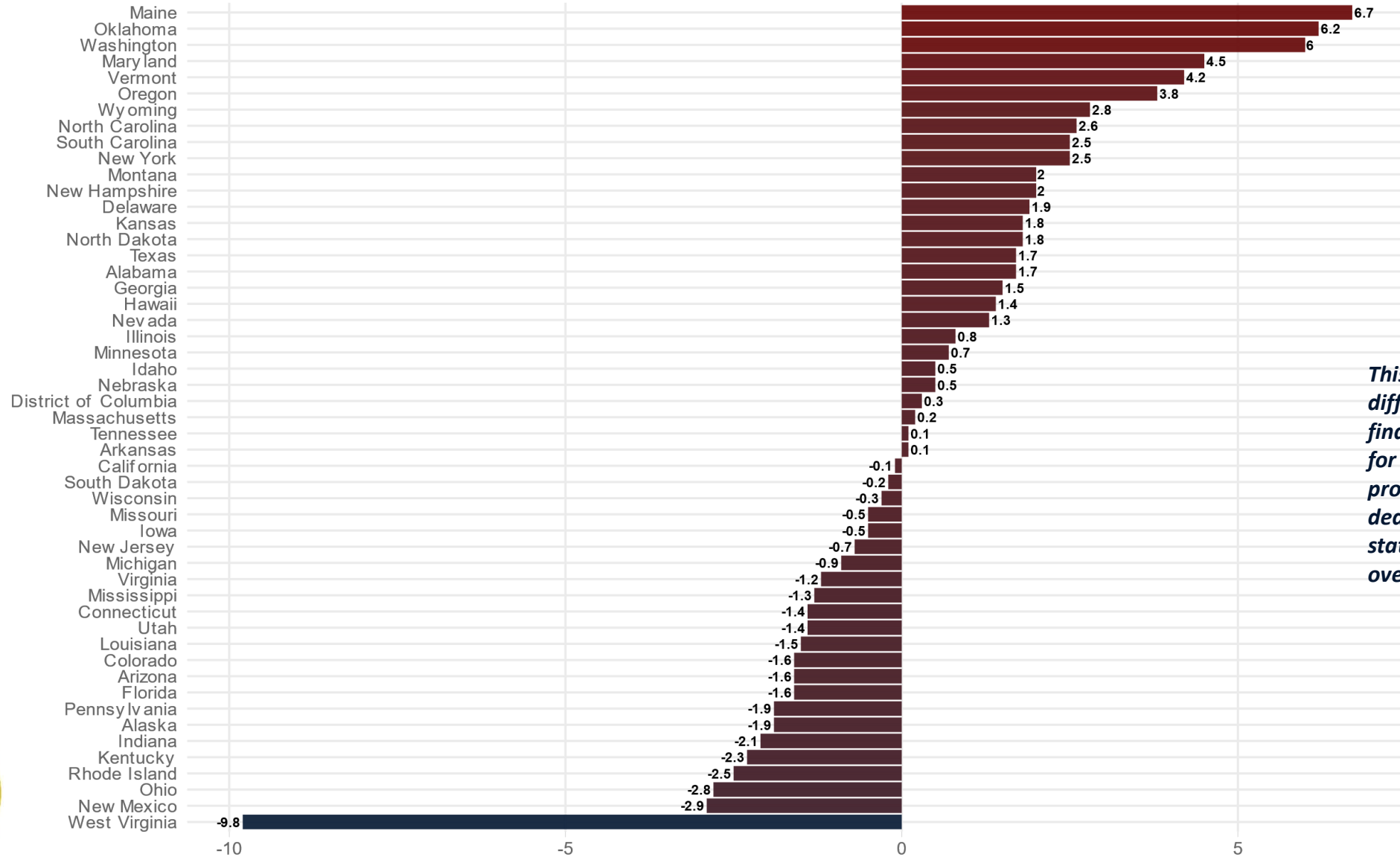


This figure represents the provisional U.S. overdose death rate for 2022 by state. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Percentage Change for Overdose Death Rates Calendar Years 2021 & 2022

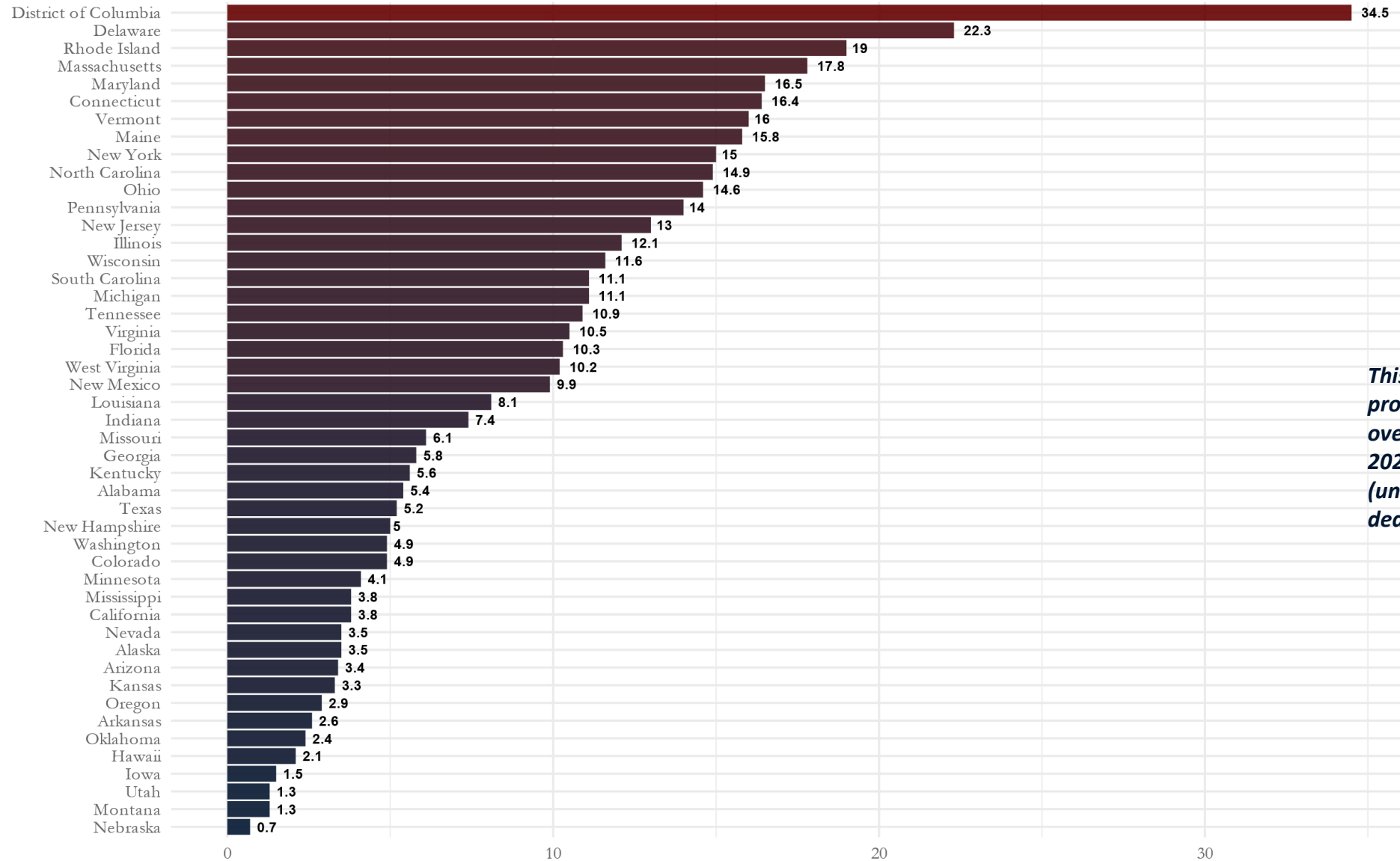


This figure represents the difference between the final overdose death rate for 2021 and the provisional U.S. overdose death rate for 2022 by state. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Cocaine Overdose Death Rate Calendar Year 2022

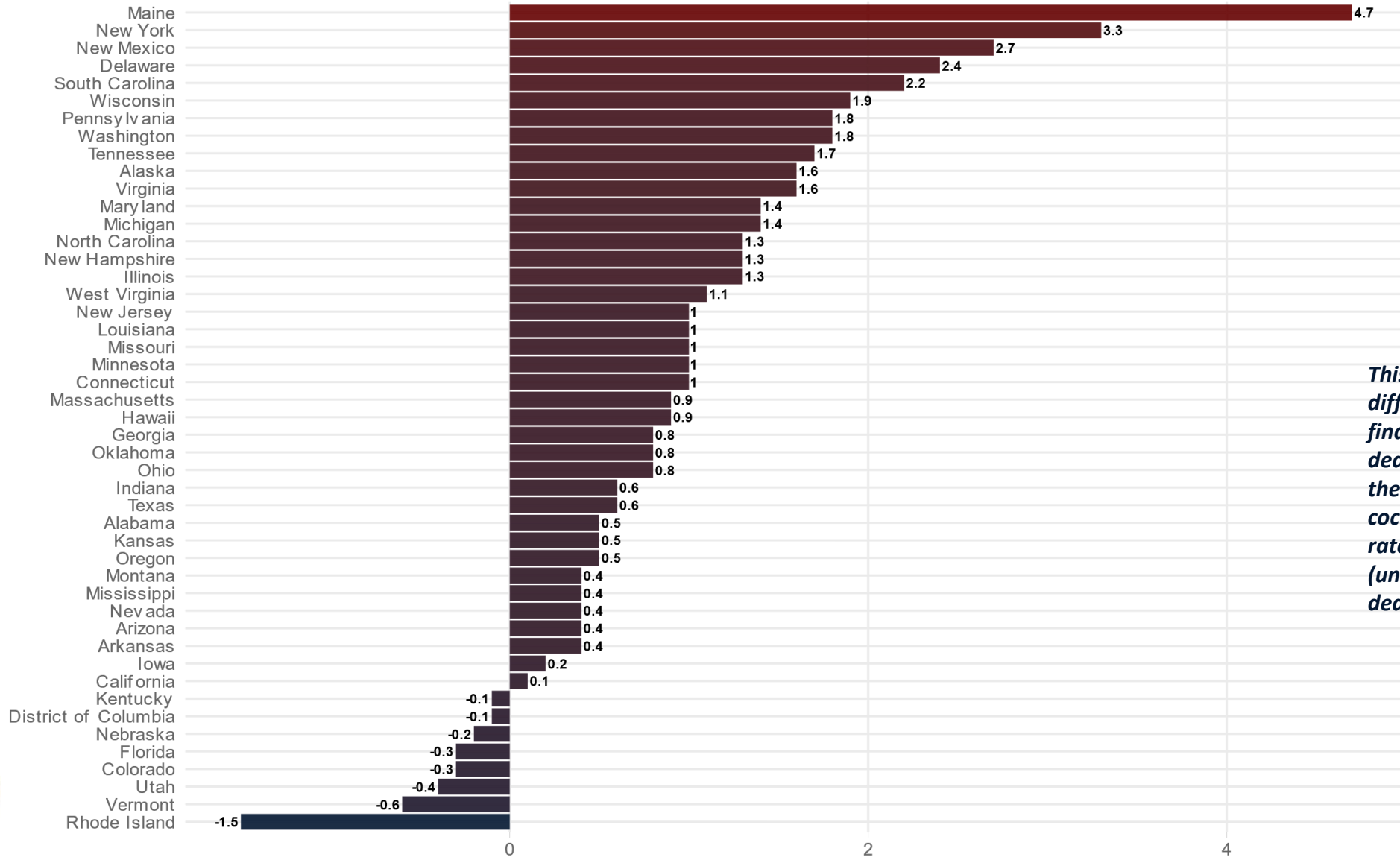


This figure represents the provisional U.S. cocaine overdose death rate for 2022 by state. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Percentage Change for Cocaine Overdose Death Rates Calendar Years 2021 & 2022

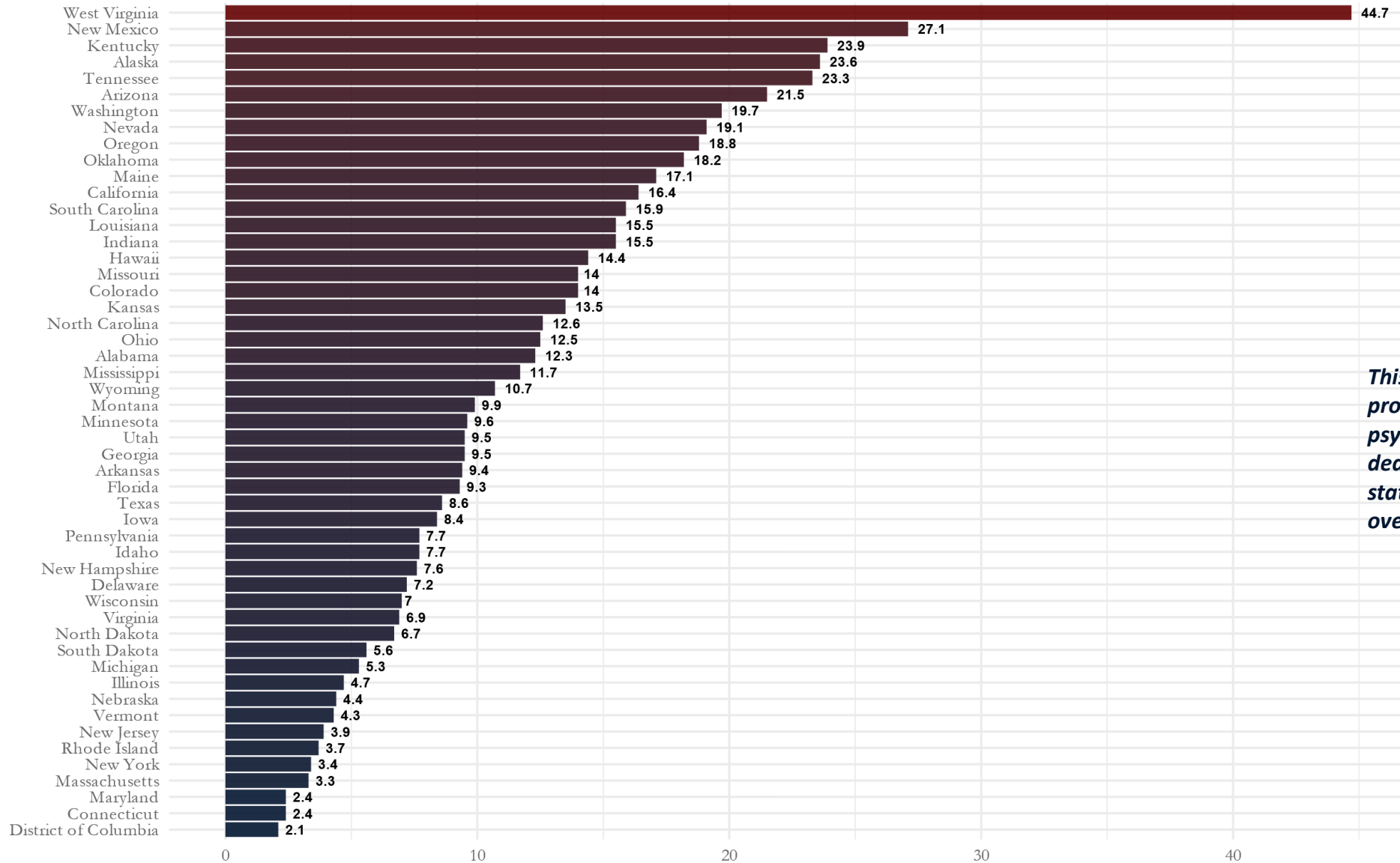


This figure represents the difference between the final cocaine overdose death rate for 2021 and the provisional U.S. cocaine overdose death rate for 2022 by state. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Psychostimulant Overdose Death Rate Calendar Year 2022

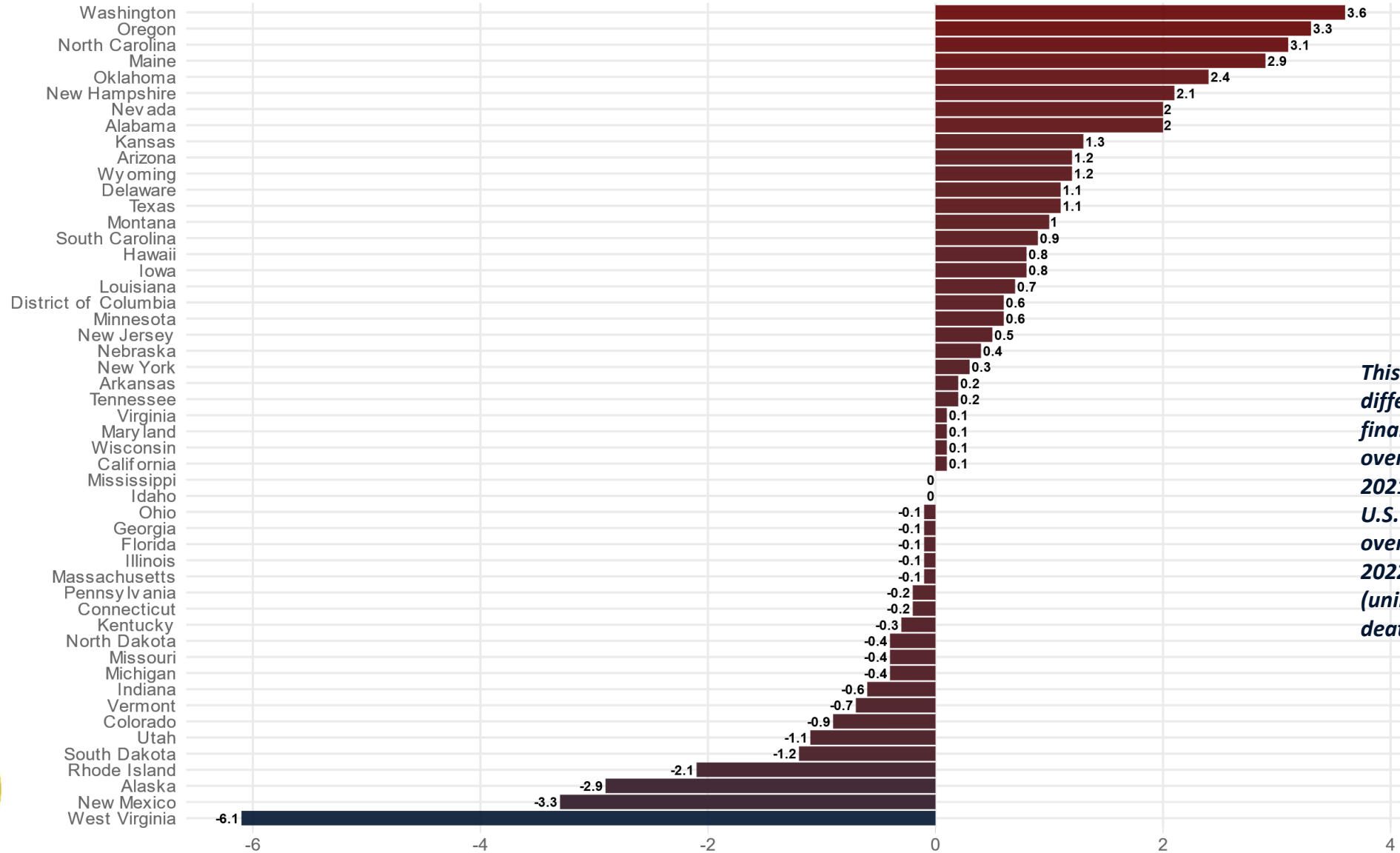


This figure represents the provisional U.S. psychostimulant overdose death rate for 2022 by state. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Percentage Change for Psychostimulant Overdose Death Rates Calendar Years 2021 & 2022

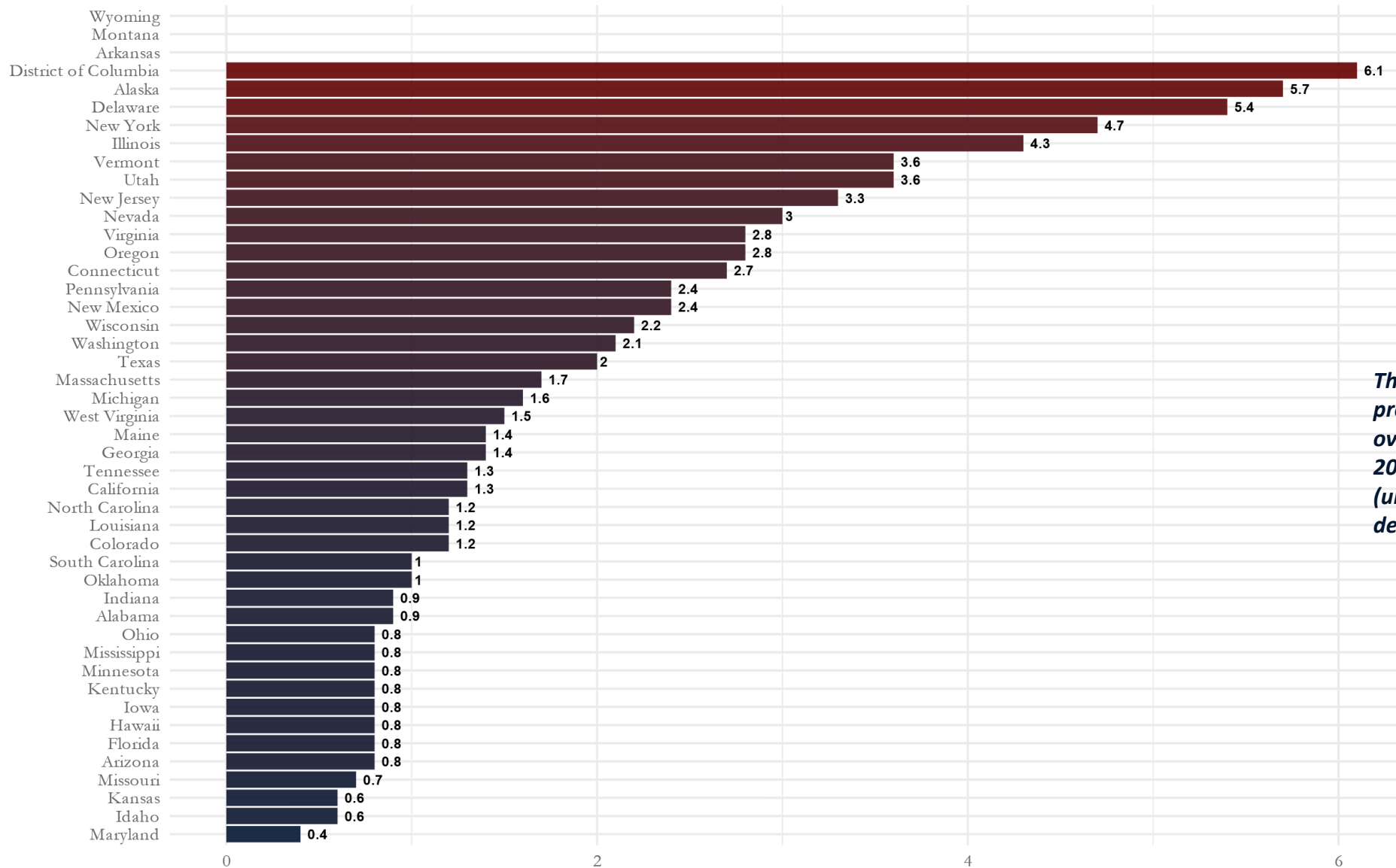


This figure represents the difference between the final psychostimulant overdose death rate for 2021 and the provisional U.S. psychostimulant overdose death rate for 2022 by state. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Heroin Overdose Death Rate Calendar Year 2022

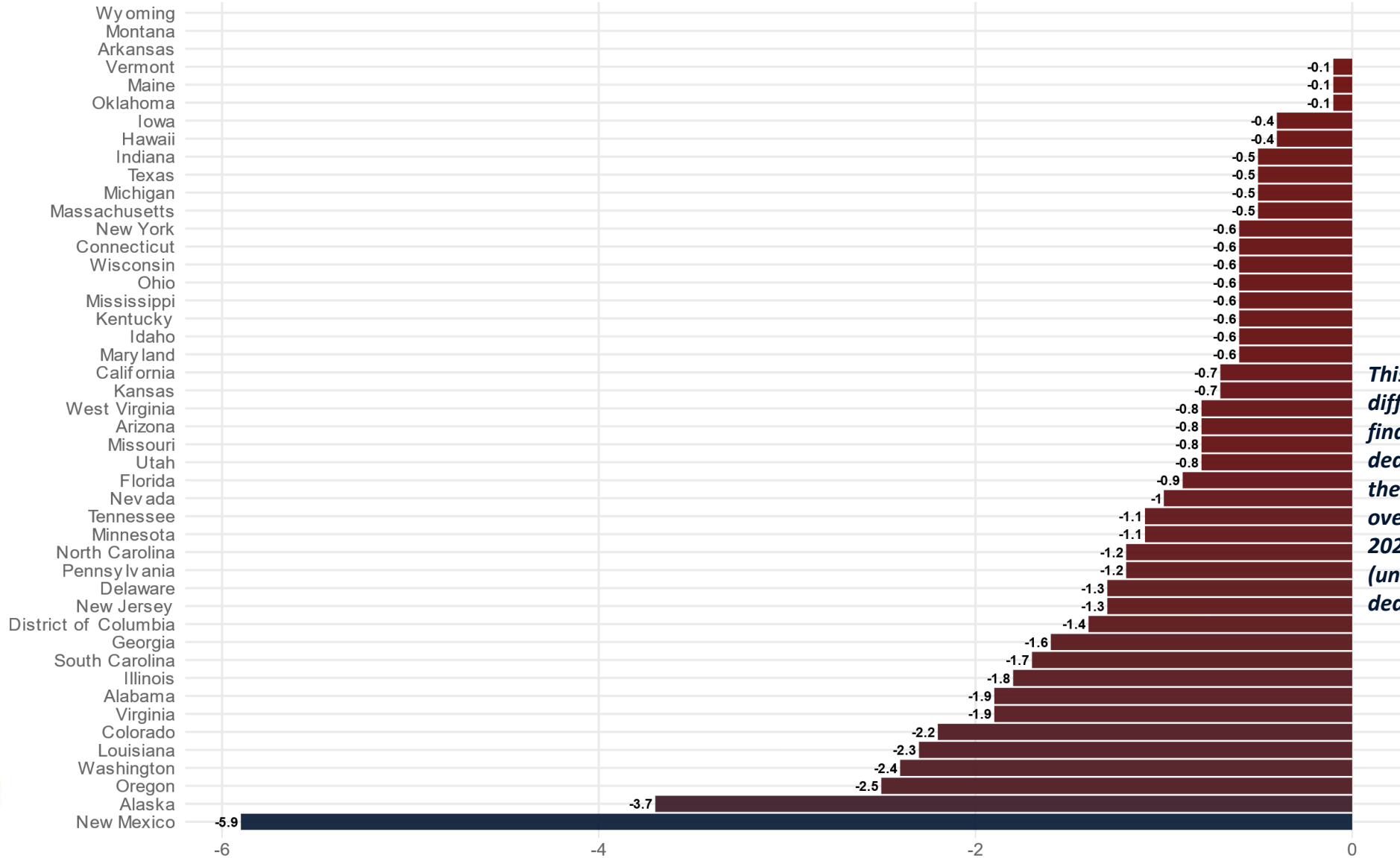


This figure represents the provisional U.S. heroin overdose death rate for 2022 by state. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Percentage Change for Heroin Overdose Death Rates Calendar Years 2021 & 2022

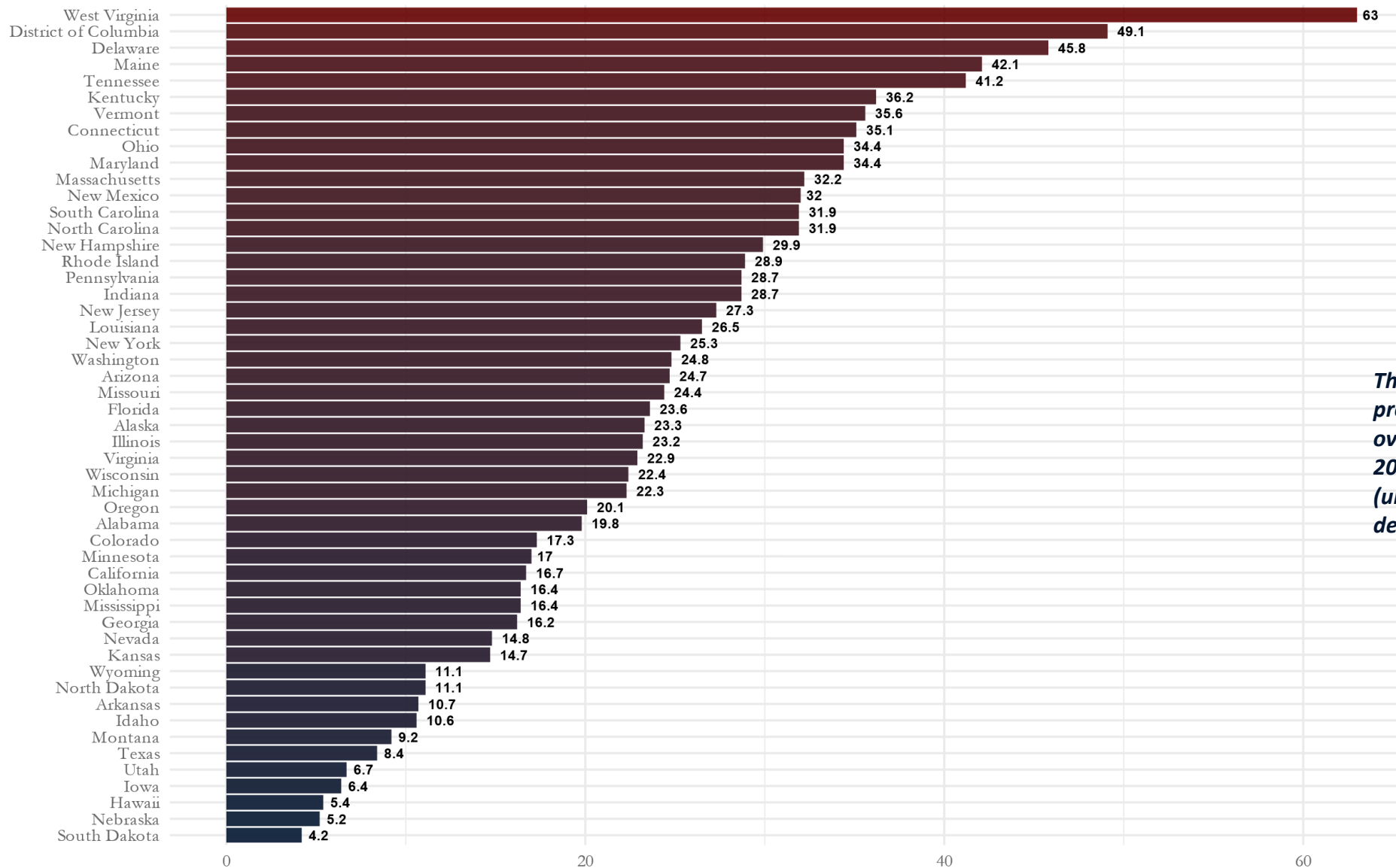


This figure represents the difference between the final heroin overdose death rate for 2021 and the provisional U.S. heroin overdose death rate for 2022 by state. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Fentanyl Overdose Death Rate Calendar Year 2022

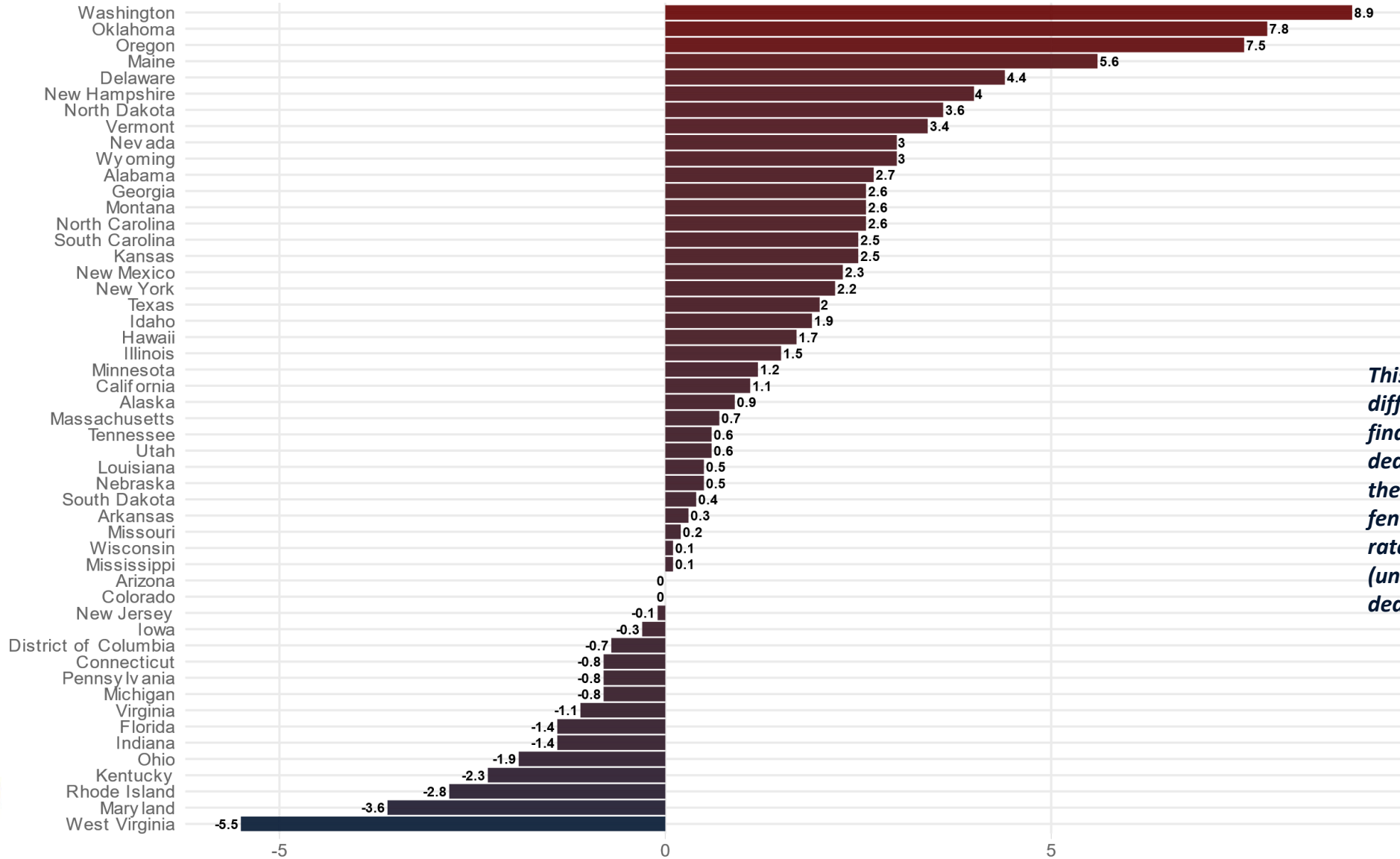


This figure represents the provisional U.S. fentanyl overdose death rate for 2022 by state. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Percentage Change for Fentanyl Overdose Death Rates Calendar Years 2021 & 2022

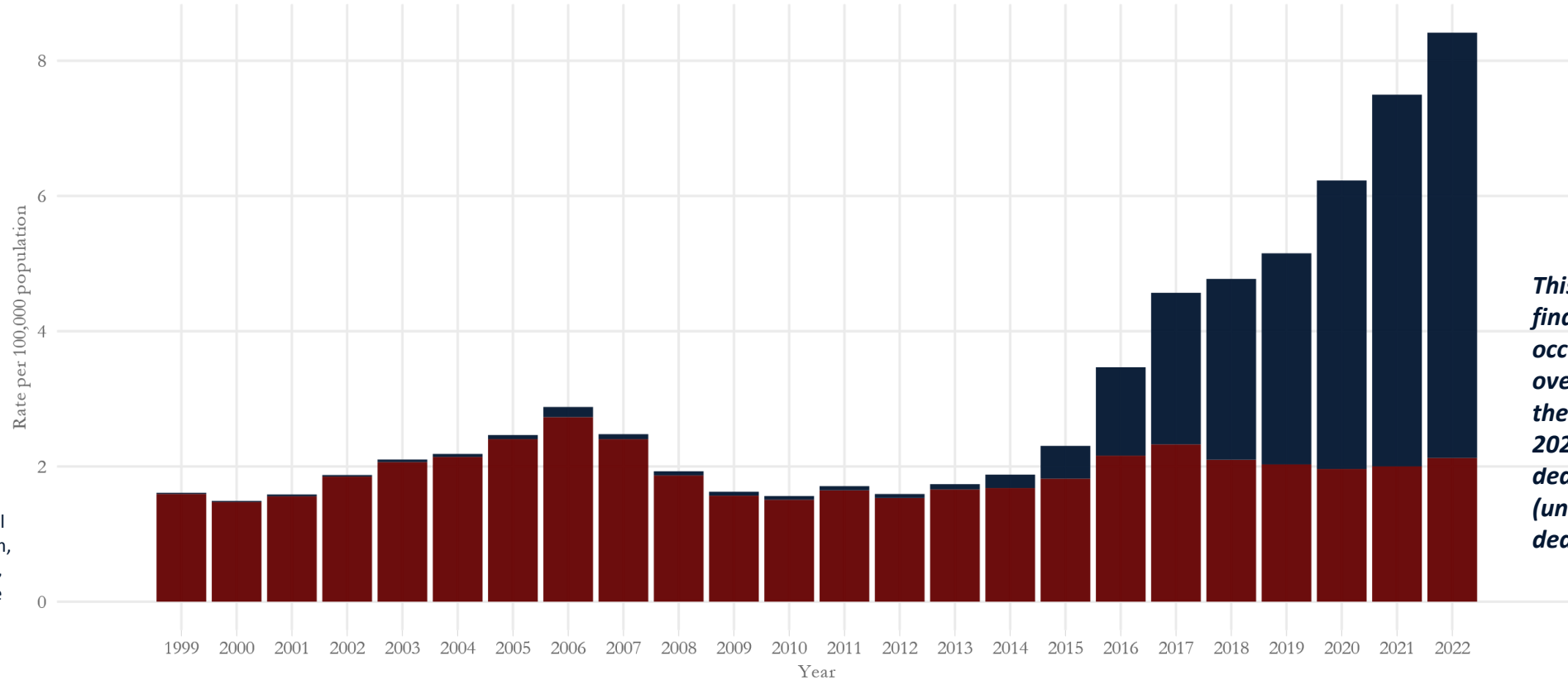


This figure represents the difference between the final fentanyl overdose death rate for 2021 and the provisional U.S. fentanyl overdose death rate for 2022 by state. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Cocaine Overdose Deaths Co-occurring with Fentanyl by Year



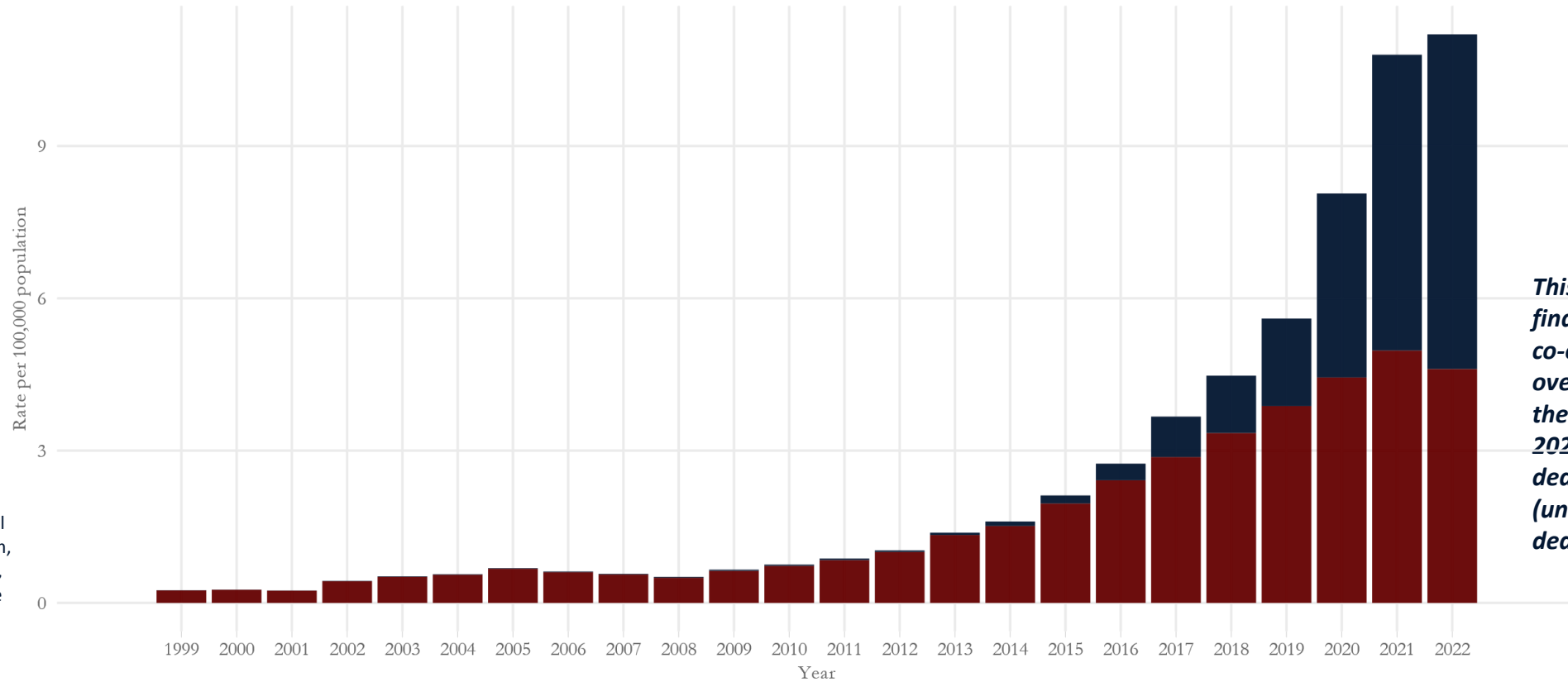
This figure represents the final cocaine and co-occurring with fentanyl overdose death rates for the years 1999 through 2021 and the provisional death rate for 2022. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.

Cocaine with Fentanyl Cocaine



Psychostimulant Overdose Deaths Co-occurring with Fentanyl by Year



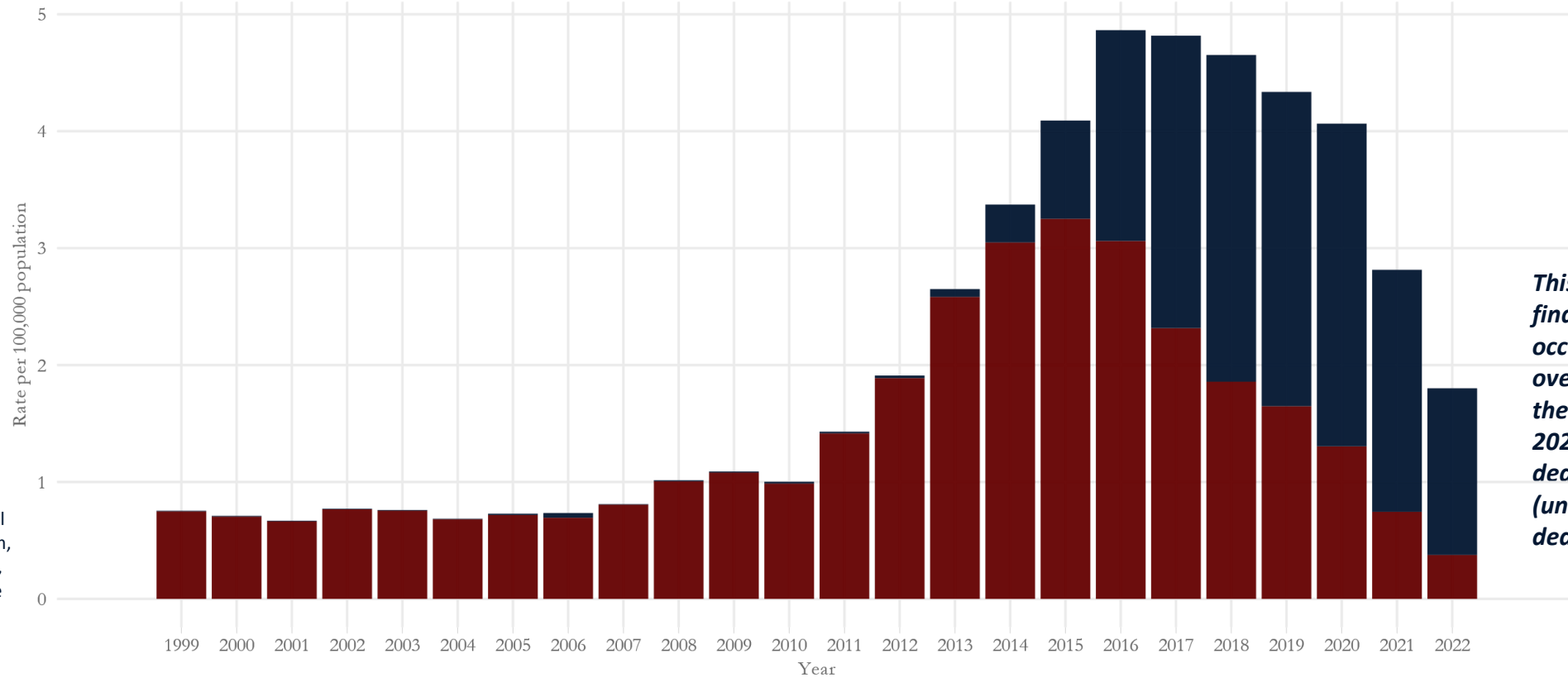
This figure represents the final psychostimulant and co-occurring with fentanyl overdose death rates for the years 1999 through 2021 and the provisional death rate for 2022. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



■ Stimulants with Fentanyl ■ Stimulants

Heroin Overdose Deaths Co-occurring with Fentanyl by Year



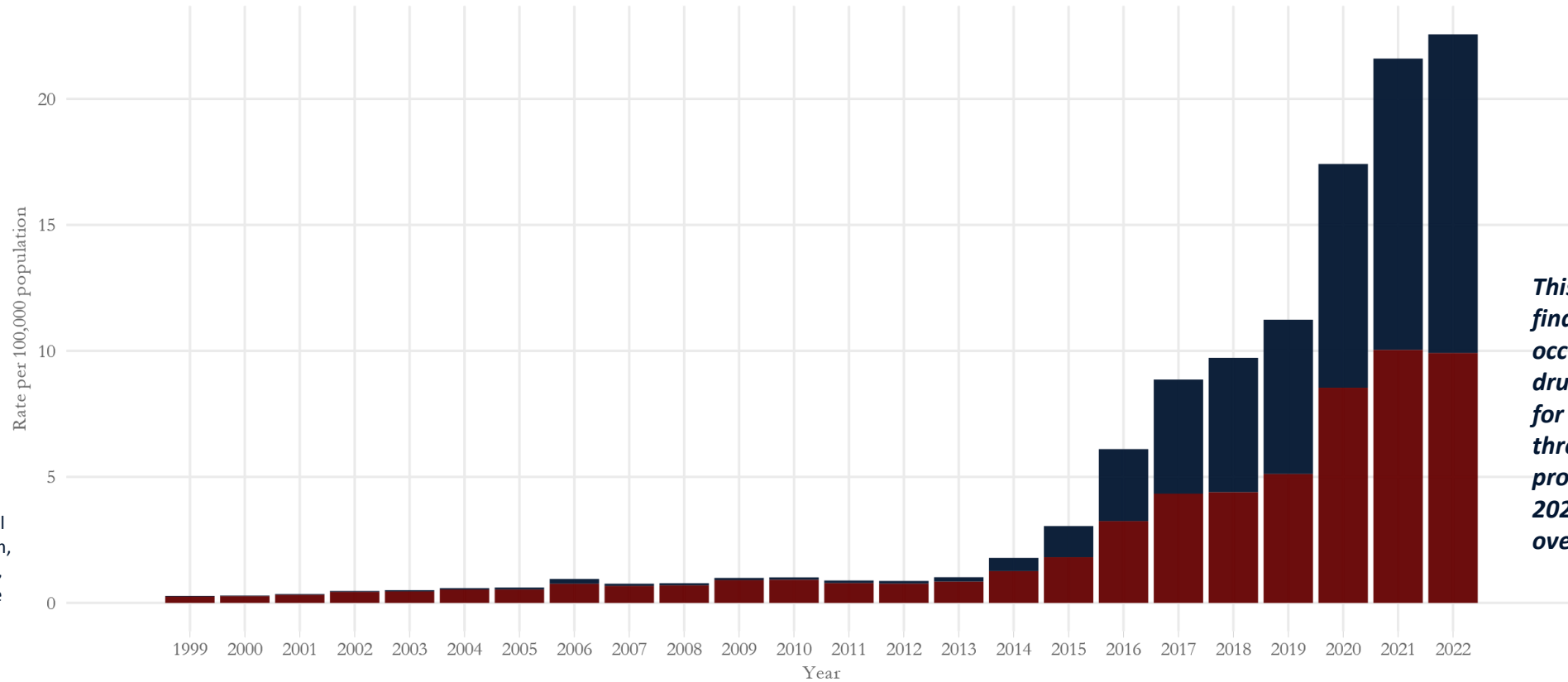
This figure represents the final heroin and co-occurring with fentanyl overdose death rates for the years 1999 through 2021 and the provisional death rate for 2022. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Heroin with Fentanyl Heroin

Fentanyl Overdose Deaths Co-occurring with Other Apex Drugs by Year



This figure represents the final fentanyl and co-occurring with other apex drug overdose death rates for the years 1999 through 2021 and the provisional death rate for 2022. (unintentional overdose deaths only)

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



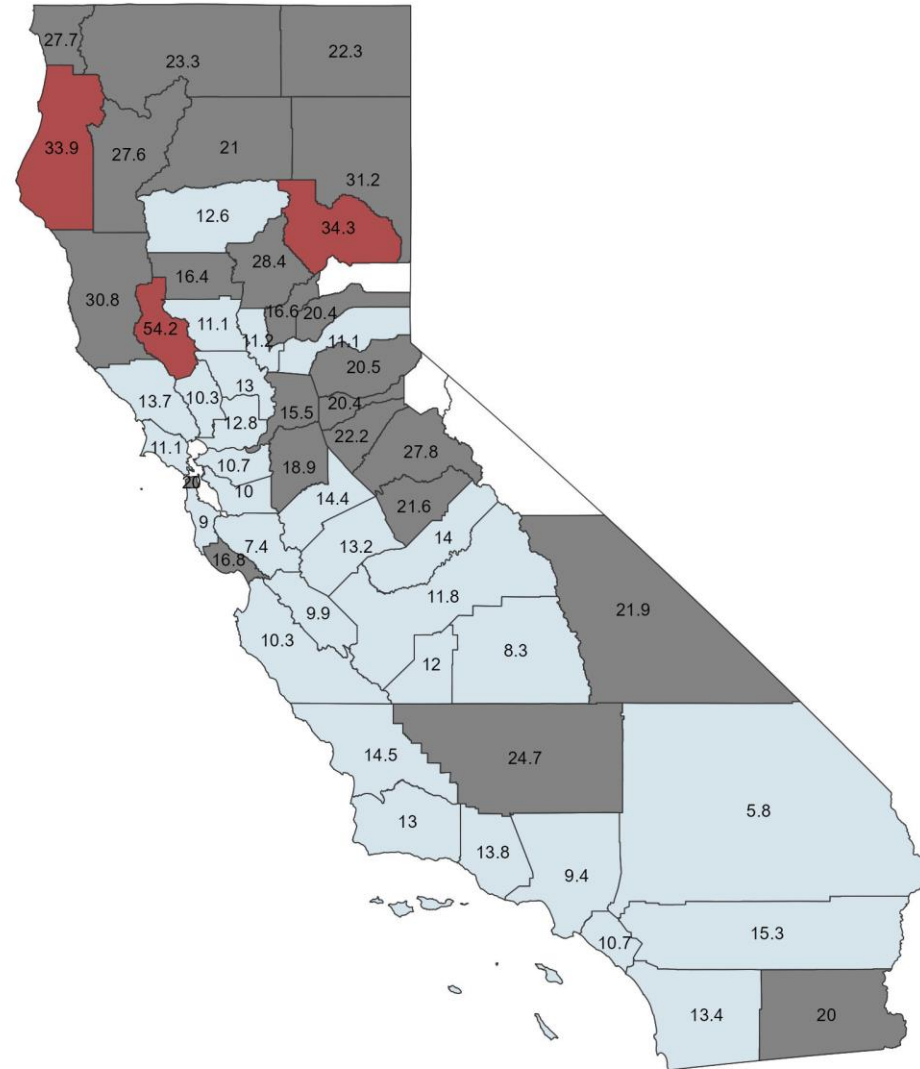
■ Fentanyl with Other Apex ■ Fentanyl

A grayscale photograph of the Washington Monument and the Lincoln Memorial steps. The Washington Monument is visible in the distance, and the steps of the Lincoln Memorial lead down towards the water. The text is overlaid on the left side of the image.

Summary of California Overdose Deaths

November 2023

Average Annual Overdose Death Rate for California Calendar Years 2013 - 2017



This figure represents the average annual overdose death rate for the five-year period ending December 31, 2017. (unintentional overdose deaths only)

The Low, Moderate, and High categories are based on the Fisher-Jenks algorithm which minimizes variance within groups and maximizes variance between groups.

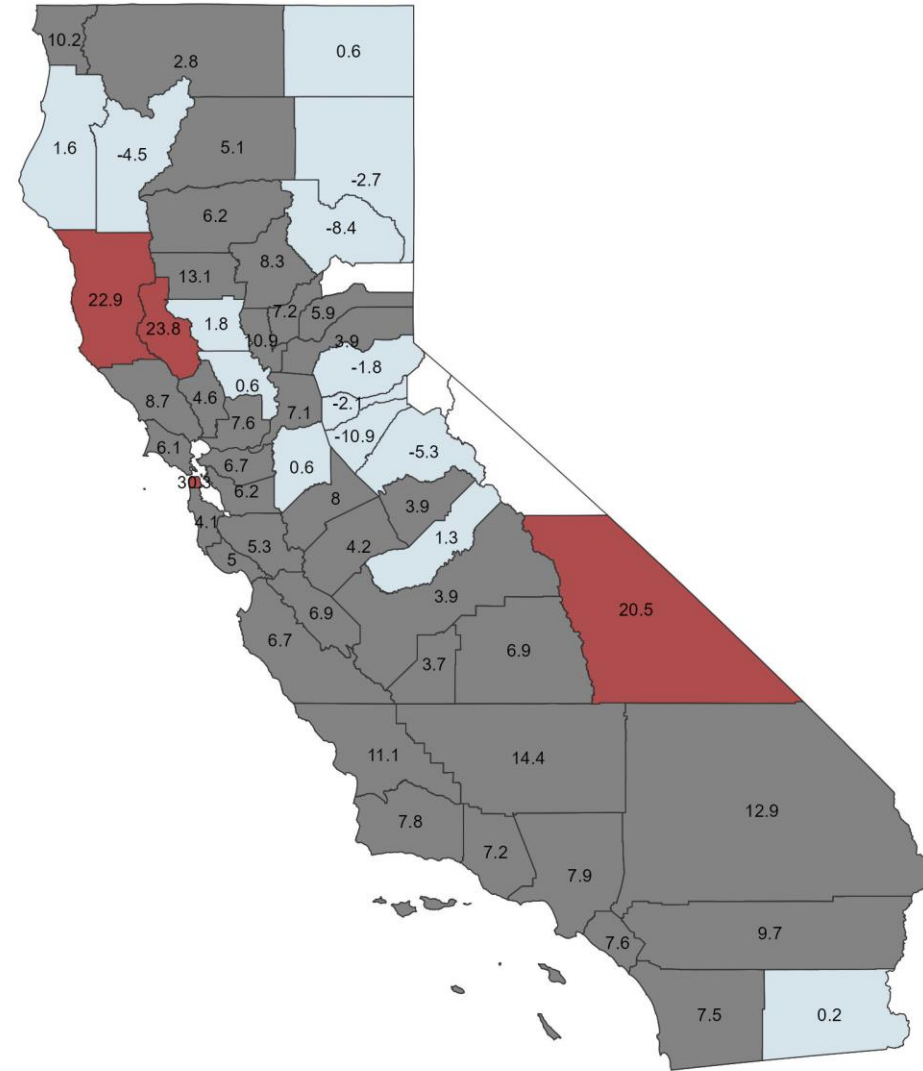
Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Overdose Low Mod High

Counties with no fill color have fewer than 10 deaths for the reporting period.

California Overdose Death Rate per 100,000 Rate Difference Between Period One & Period Two



This figure represents the difference between the average annual overdose death rate for the five-year periods ending December 31, 2017, and December 31, 2022. (unintentional overdose deaths only)

The Low, Moderate, and High categories are based on the Fisher-Jenks algorithm which minimizes variance within groups and maximizes variance between groups.

Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Overdose [-10.9,2.3] (2.3,17.5] (17.5,30.3]

Counties with no fill color have fewer than 10 deaths for the reporting period.

California Overdose Death Rate per 100,000 Percent Difference Between Period One & Period Two



This figure represents the percent difference between the average annual overdose death rate for the five-year periods ending December 31, 2017, and December 31, 2022. (unintentional overdose deaths only)

The Low, Moderate, and High categories are based on the Fisher-Jenks algorithm which minimizes variance within groups and maximizes variance between groups.

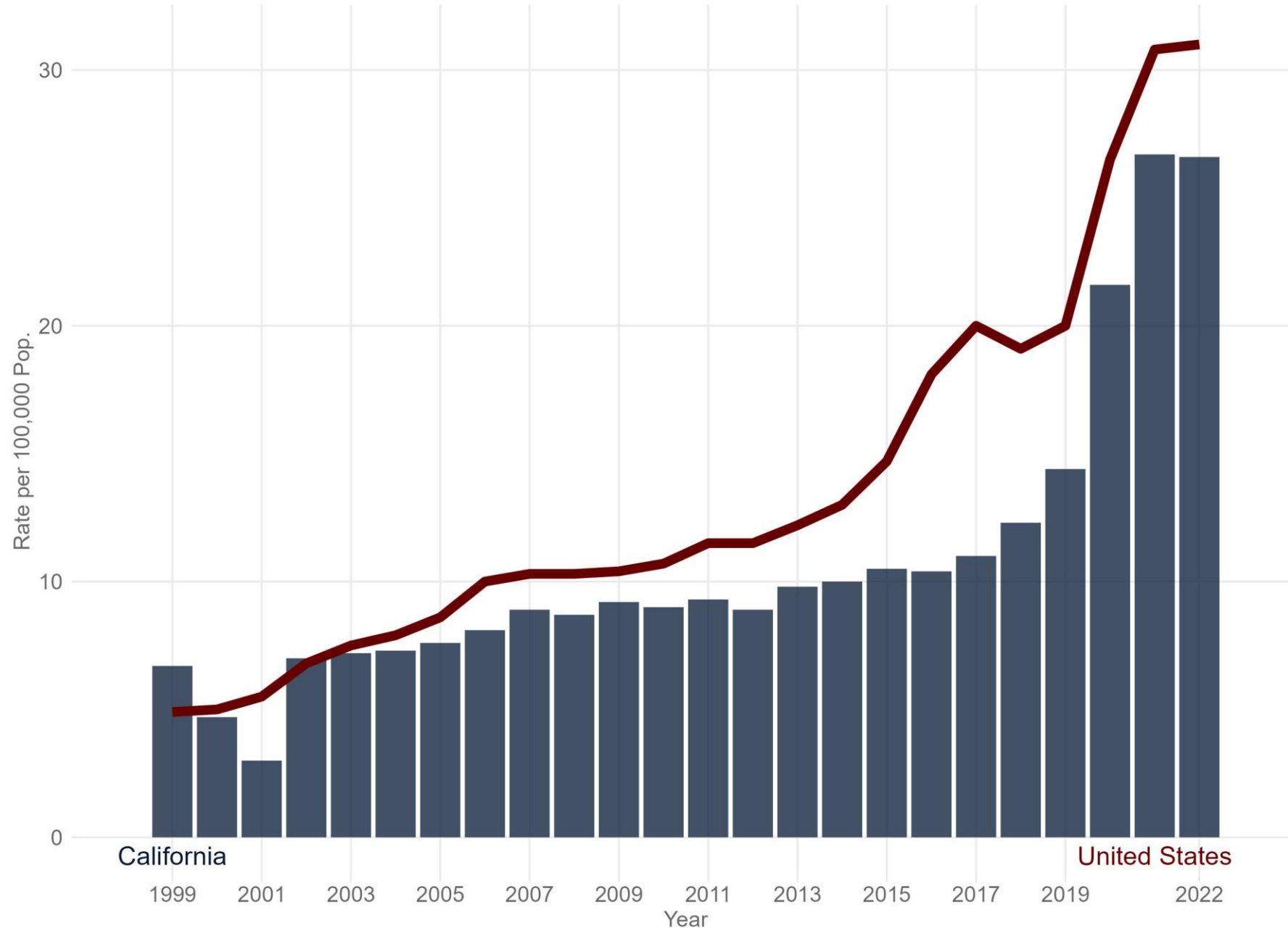
Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



Overdose [-49.1, 34.1] (34.1, 124] (124, 222]

Counties with no fill color have fewer than 10 deaths for the reporting period.

California and U.S. Overdose Death Rate per 100,000 1999 - 2022



Data source: National Vital Statistics System, Mortality 1999-2022, CDC WONDER Online Database.



This figure represents the final drug overdose death rate for the years 1999 through 2021 and the provisional death rate for 2022. (unintentional overdose deaths only)

The bars represent state deaths, and the red line represents U.S. deaths.

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