

# Suicide in the Sunflower State

An Update from the Kansas Health Institute

August 24, 2023

KANDAS HEALTH INSTITUTE

# Hello!

### Wyatt J. Beckman, M.P.H., C.H.E.S

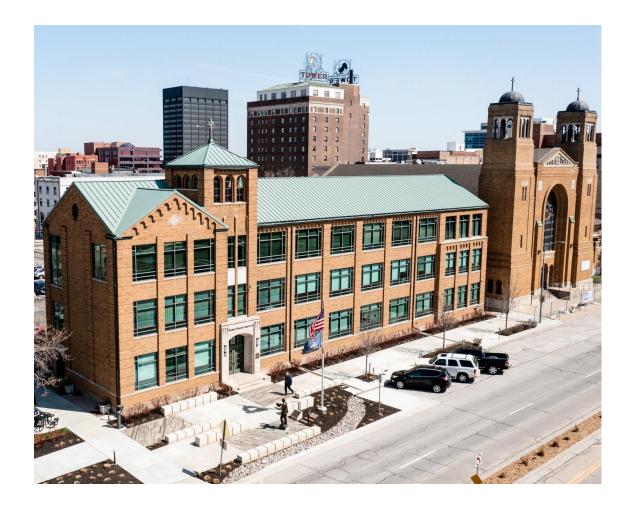
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# Who We Are



- Nonprofit, nonpartisan educational organization based in Topeka.
- Established in 1995 with a multi-year grant by the Kansas Health Foundation.
- Committed to convening meaningful conversations around tough topics related to health.



### Healthier Kansans through effective policy.

Improve the health of all Kansans through nonpartisan research, education and engagement that support effective policymaking.



### **Our Services**





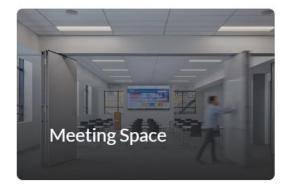












https://www.khi.org/services/



# Background

### **Our Recent Work**

- Suicide Among Adolescents and Youths in Kansas (2022)
- Youth and Young Adult Mental Health: Challenges & Opportunities in the Sunflower State (2022)
- Suicide in Rural and Frontier Kansas Virtual Event (2021)
- State Efforts to Prevent Suicide in Rural Communities (2021)
- Federal Efforts to Prevent Suicide in Rural Communities (2021)
- Urban-Rural Differences in Suicide Rates and Leading Means in Kansas (2021)
- Rising Stress-Related Deaths in Kansas (2018)
- Deaths by Suicide: Disparities in the Sunflower State (2018)

### Upcoming

• 988 Suicide & Crisis Lifeline – Year 1 Impacts Hybrid Convening (September 7, 2023)



# Agenda

### **National Perspective**

- Trend in Suicide Rates Since
  2000
- Disparities in Suicide
- Provisional 2022 Data

### **Kansas Perspective**

- Adolescent & Youth Suicide Rates
- Urban-Rural Suicide Rates







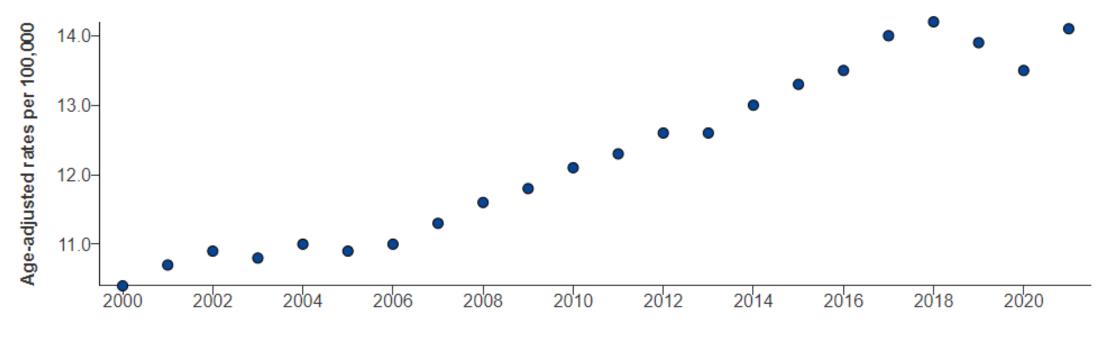
# **National Perspective**



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### National Trend in Suicide Rates, 2000-2021

Suicide rates increased 37% between 2000-2018 and decreased 5% between 2018-2020. However, rates nearly returned to their peak in 2021.



Year



### National Suicide Findings, 2021

### In 2021:

**48,183 people** died by suicide in the United States.

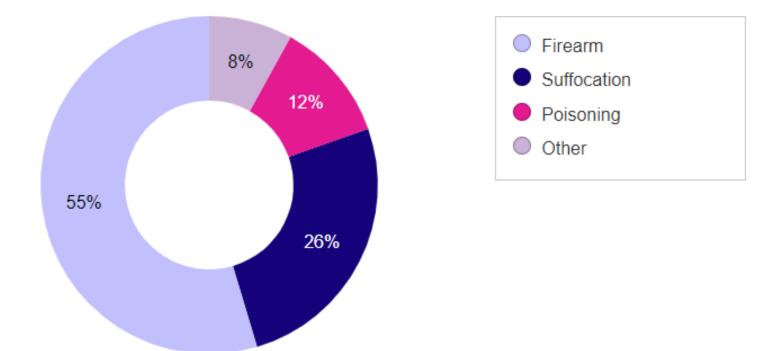
That is 1 death every 11 minutes.

- 12.3 million adults seriously thought about suicide
- **3.5 million adults** made a plan
- 1.7 million adults attempted suicide



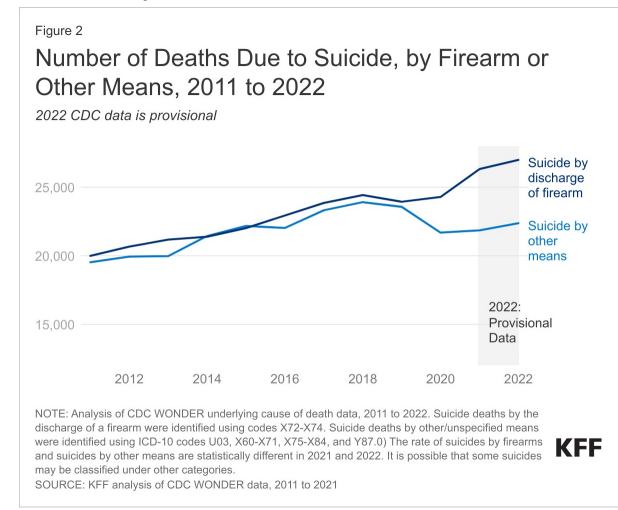
### National Suicide Rates by Means, 2021

Firearms are the most common method used in suicides. Firearms are used in more than 50% of suicides.



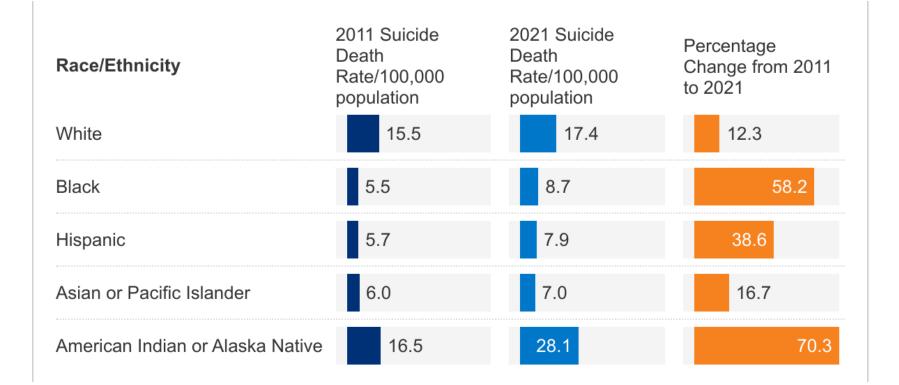


### National Suicide Rates, By Means, 2011-2022 (Provisional Data)



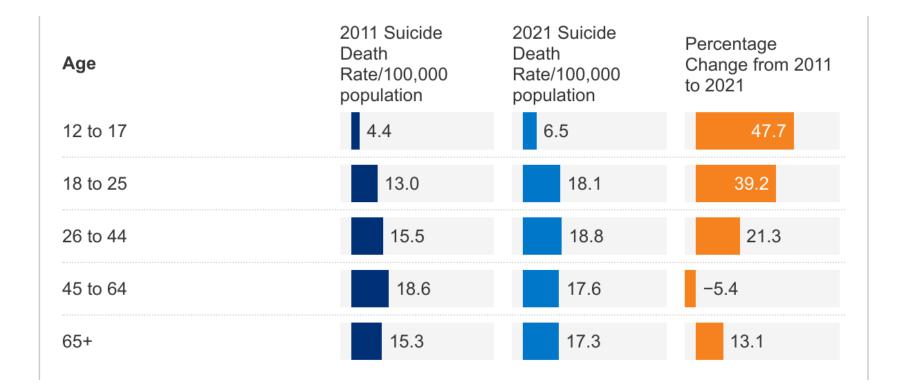
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# National Suicide Rates, by Race & Ethnicity, 2011-2021



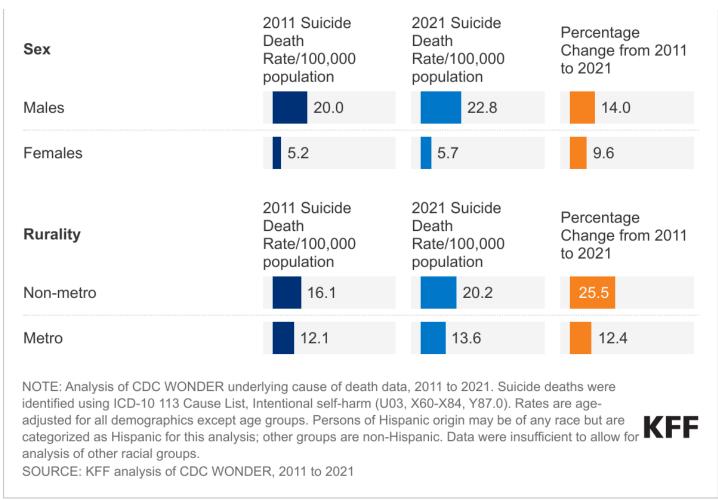


### National Suicide Rates, by Age, 2011-2021





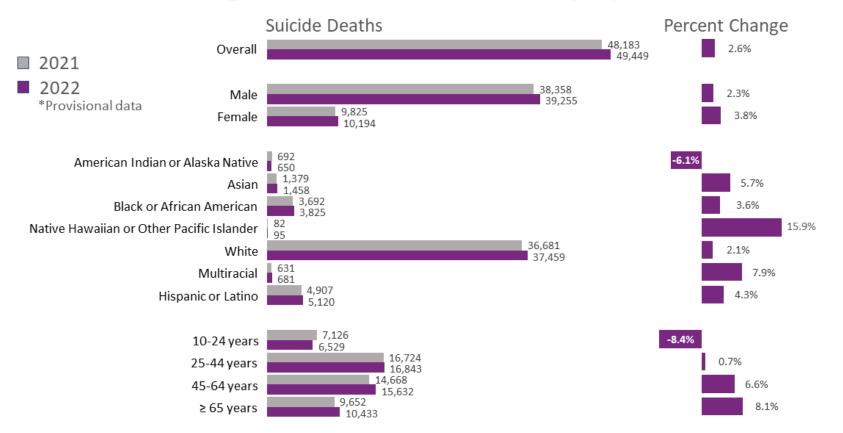
# National Suicide Rates, by Sex and by Rurality, 2011-2021





### National Suicide Rates, by Population, 2021-2022 (Provisional Data)

Overall, the number of deaths by suicide increased 2.6% from 2021 to 2022\*, but decreased among American Indian/Alaska Native people and Youth





### **Disparities in Suicide Rates**



#### Veterans

Veterans have an adjusted suicide rate that is 57.3% greater than the non-veteran U.S. adult population. **Tribal Populations** 

Suicide is the 9th leading cause of death among Al/AN people.

Adults

Adults (35-64 years) account for almost half of all suicides in the U.S.



#### **LGB** Youth

High school students identifying as lesbian, gay, or bisexual attempt suicide at a rate five times higher than heterosexual students.

#### Certain Industries & Occupations

Suicide rates are highest among men working in certain industries (Mining, Quarrying, and Oil and Gas Extraction) and occupations (Construction and Extraction).

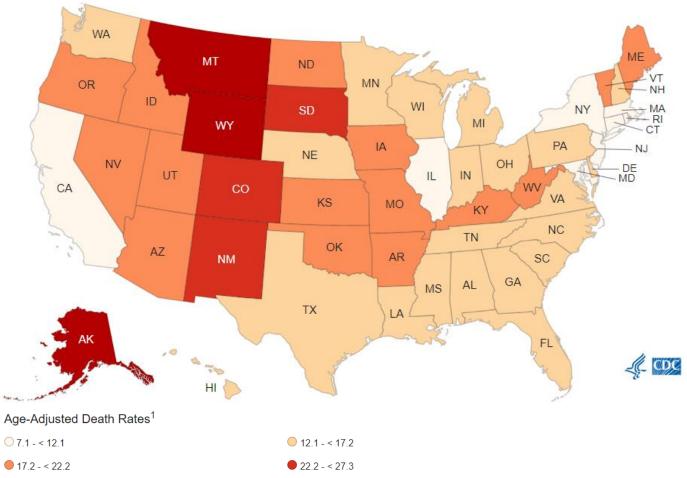
#### People with Disabilities

Adults with disabilities are three times more likely to report suicidal ideation compared to adults without disabilities.

Retrieved from: Facts About Suicide | Disparities in Suicide | Infographic | CDC



## Suicide Rates by State, 2021



### Ranks (Age-Adjusted rate per 100,000 population)

1. New Jersey (7.1) 20. Nebraska (15.0) 30. Iowa (17.5) 32. Missouri (18.7) 33. Kansas (19.4) 40. Arkansas (20.6) 44. Oklahoma (22.1) 45. Colorado (22.8) 50. Wyoming (32.3)



• 27.3 - 32.3

# **Kansas Perspective**



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## **Urban-Rural Differences in Suicide Rates**

### Methods

- Kansas Information for Communities (KDHE) data from 2000-2019
- Age-adjusted to 2000 U.S. standard population
- Rate per 100,000
- 5-year average rates
- KDHE Peer Groups

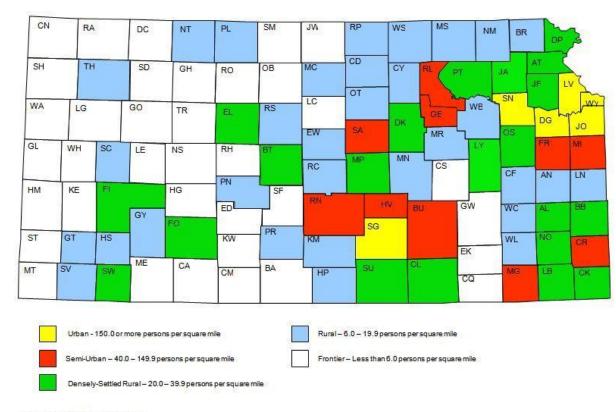
KDHE KIC Link: <u>http://kic.kdheks.gov/death\_new.php</u>

	osmun	Informing Policy, Improving Health					
	URBAN-RURAL DIFFERENCES IN SUICIDE RATES AND LEADING MEANS IN KANSAS						
	Introduction						
ISSUE BRIEF	Suickle was the ninth leading cause of death in Kamas in 2019 and the 10th leading cause of death in the U.S. and the suickle rates have been increasing. In both Kansas and the U.S. discharge of finarmi has been the leading mease of suickle. The suickle rate in Kansas, 18:2 per 100,000 standard population/, was the 16th highest in the country in 2019, Nationally, suickle rates ranged from 8:0 per 100,000 in New Jensey to 29:3 per 100,000 in Wyoming. While rising suickle rates across the nation have drawn attention, urbarn rural differences also have been noticed. Rural areas have experienced a higher suickle rate than urban, regartless of age. sex, race or ethnicity.	Include the indexes and means of suicide cost the means the means the suicide and programs the mean the mean of suicide cost the mean of suicide cost the means of suicide cos					
	The majority (89 of 105) of counties in Kanasa are considered runil by population density, including Frontier, Runal and Denoteh-Settled Runal counties, according, to the precounty group classification used by the Kanasa Department of Health and.	Rising Suicide Rates in Kansas Increase in Rural Counties Outpaces Non-Rural					
	Environment. This issue brief highlights how suicide rates and the means of suicide have changed over time and have varied across Kansas, with a close look at differences by natality. A better understanding of urban-	Over the past 20 years, the rate of suicide across Kansas has steadily rises, from 12.5 per 100,000 population in 2000-2004 to 18.1 in 2015-2019 (Figure 1, page 2), This translates					
	KEY POINTS						
-	The toxicide rate in Kantas was nearly 1.5 times higher in 2015-2019 than in 2000-2004 (38.1 compared to 12.5 per 100,000), and in 2019 was the 16th highest in the country.	In Densely: Settled Rural, Servi-Urban and Urban counties (54.7 and 59.4 percent increases compared to 43.2, 40.3 and 45.4 percent increases, respectively.					
N	The subside rate increased gradually starting in 2000, then picked up pace between 2007- 2011.	Since 2011-2013, the rate of suicide by decharge of frearms in Frontier countiles has been significantly higher than other county groups.					
	While Kamas counties of all population densities saw an increase in suicide rates over the past 20 years, the increase in Frontier and Bural counties outpaced that	<ul> <li>In 2015-2019, two-thirds (66.8 percent) of success in Frontier counties occurred by discharge of finances (15.3 out of 22.9 per 100.000).</li> </ul>					



### **KDHE Peer Groups Map**

#### **Kansas Peer County Groups**

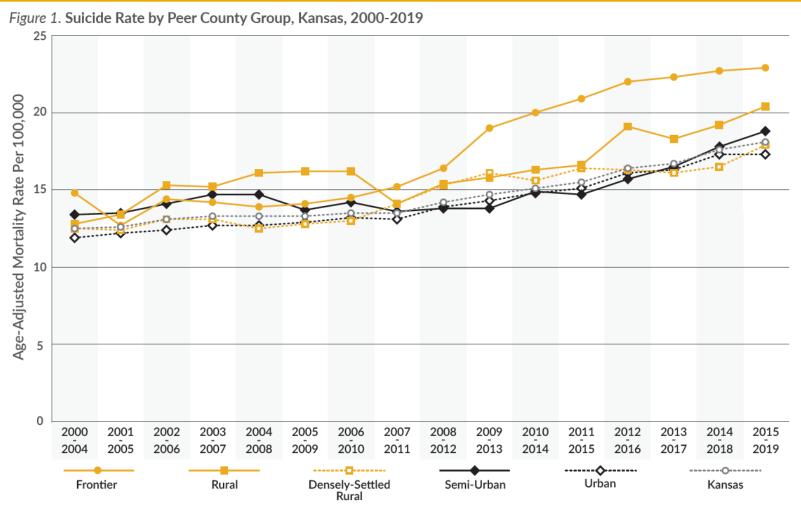


Source Data-2010 US Census Data Prepared by Bureau of Epidemiology and Public Health Informatics Corrected 5-29-2012 to reflect Doniphan County as Densely-Settled Rural



Retrieved from: Kansas Department of Health and Environment | Kansas Regional Groupings & Maps

## Suicide Rates by Peer Group, 2000-2019

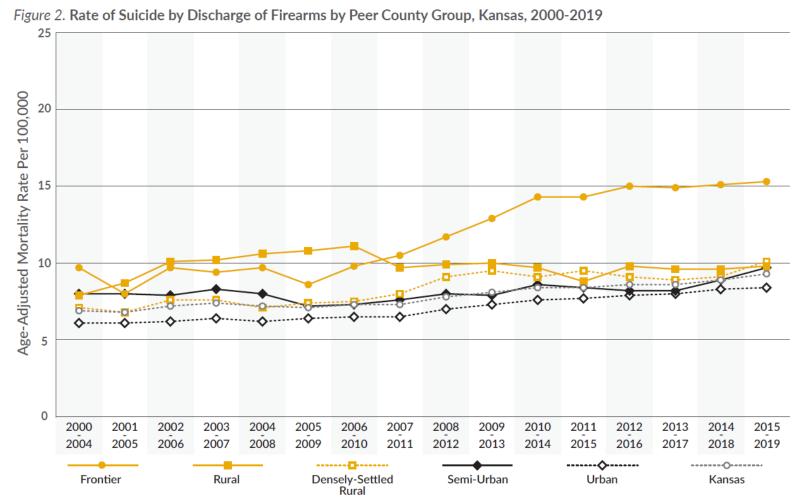


Note: Data were aggregated to five years due to small sample size. All rates are age-adjusted to the U.S. 2000 standard population. *Source: KHI analysis of Kansas Information for Communities data*, 2000-2019.



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### Suicide Rates by Peer Group, 2000-2019 (Firearms)

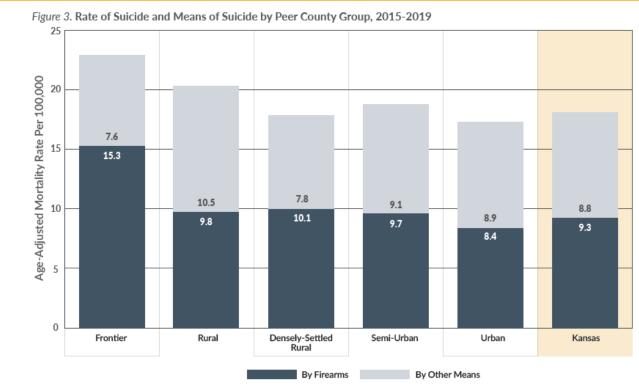


Note: Data were aggregated to five years due to small sample size. All rates are age-adjusted to the U.S. 2000 standard population. *Source: KHI analysis of Kansas Information for Communities data, 2000-2019.* 



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# Suicide Rates by Peer Group, 2015-2019



Peer County Group	Frontier	Rural	Densely-Settled Rural	Semi-Urban	Urban	Kansas
Number of Suicides	122	229	407	419	1,432	2,609
Suicide Per 100,000	22.9*	20.4	17.9	18.8	17.3	18.1
By Other Means	7.6**	10.5	7.8	9.1	8.9	8.8
By Firearms	15.3***	9.8	10.1	9.7	8.4	9.3

Note: Data were aggregated to five years due to small sample size. All rates are age-adjusted to the U.S. 2000 standard population. Statistically significant differences (p-value < 0.05) were found between Frontier and Urban counties (\*), between suicide by firearms and by other means for Frontier counties (\*\*) and between Frontier and other county groups (\*\*\*).

Source: KHI analysis of Kansas Information for Communities data, 2015-2019.



# Suicide Rates Among Kansas Youth

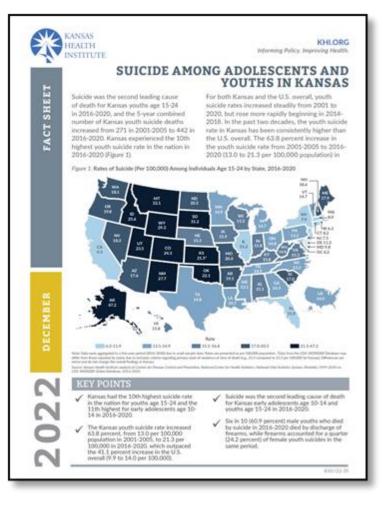
### **Methods**

- Trend in suicide rates and means
- Data from KDHE Vital Statistics and KIC
   & CDC WONDER
- 20 Years from 2001-2020
- Data aggregated to five-year periods

We recognize Lauren Gracy, Epidemiologist, KDHE, for her contributions.

KDHE KIC Link: <u>http://kic.kdheks.gov/death\_new.php</u>

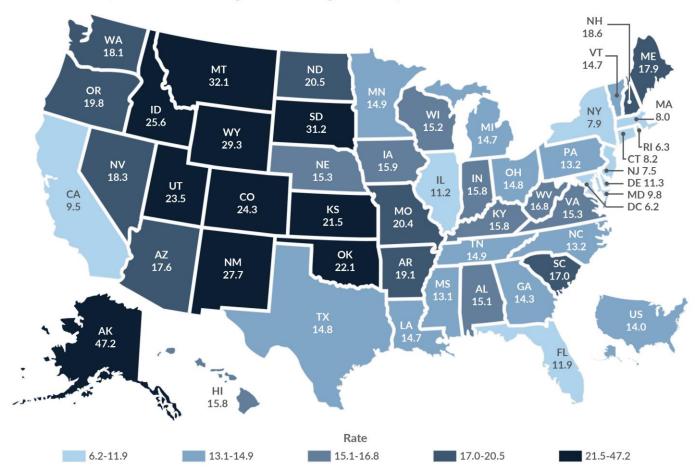
CDC WONDER Link: https://wonder.cdc.gov/





### State Rates of Suicide – Youth 15-24

Rates of Suicide (Per 100,000) Among Individuals Age 15-24 by State, 2016-2020



Note: Data were aggregated to a five-year period (2016-2020) due to small sample size. Rates are presented as per 100,000 population. Data from the CDC WONDER Database may differ from those reported by states due to inclusion criteria regarding primary state of residence at time of death. Differences are minor and do not change the overall findings in Kansas. Source: Kansas Health Institute analysis of Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Mortality 1999-2020 on CDC WONDER Online Database, 2016-2020.



### Suicide Rate Trend – Youth 15-24



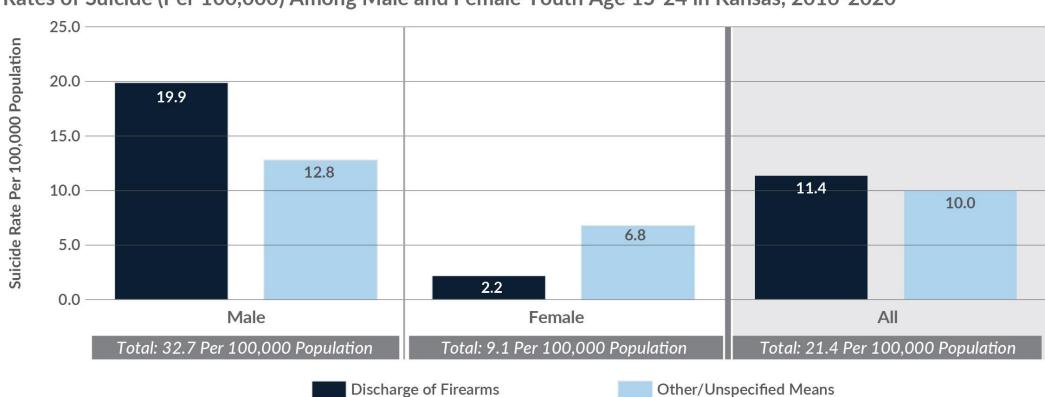
Rates of Suicide (Per 100,000) Among Youth Age 15-24 in Kansas and the U.S., 2001-2020

Note: Data were aggregated to five-year periods (e.g., 2016-2020) due to small sample size.

Source: Kansas Health Institute analysis of Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Mortality 1999-2020 on CDC WONDER Online Database, 2001-2020, and Kansas Department of Health and Environment, Office of Vital Statistics, Death Database, 2001-2020.



### Means of Suicide in Kansas – Youth 15-24



Rates of Suicide (Per 100,000) Among Male and Female Youth Age 15-24 in Kansas, 2016-2020

Note: Data were aggregated to five-year periods (e.g., 2016-2020) due to small sample size.

Source: Kansas Health Institute analysis of Kansas Department of Health and Environment, Office of Vital Statistics, Death Database, 2001-2020.



# **THANK YOU!** Any Questions?



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