FY24 Middle School Meth Prevention Program Outcomes

SOUTH DAKOTA DEPARTMENT OF SOCIAL SERVICES, DIVISION OF BEHAVIORAL HEALTH

SOUTH DAKOTA EPIDEMIOLOGICAL OUTCOMES

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# Data Collection Methods and Curricula Utilized

### **Data Collection:**

In FY2024, **33 of 60 schools**\* that submitted Participant Level Instruments (PLI) tests for Middle School meth prevention programming had matching pre- and post-tests.

**FY2024 Updates** - updated "smoke" to "use" for all nicotine and marijuana questions. There is a new question for participants to specific the type of e-cigarette and vape used in the past 30 days.

There were **2,452 original PLI tests completed**. Of the original PLI tests, there were total of **1,314 pre-tests** and **1,138 post-tests**. There were **4,134 PLI-2 tests completed**. Of the PLI-2 tests, there were a total of **2,341 pre-tests** and **1,793 post-tests**. In total, **6,586 PLIs were completed for FY2024**.

After unique identifiers were utilized to match pre- and post-tests, there were a total of **1,427 matched tests** that could be utilized for further analysis. This is an **attrition/fail rate 56.7%**, based on the total number of PLI tests.

### Curricula Utilized in Middle School Meth Prevention Programming (as reported in PLI tests)\*\*:

Too Good For Drugs	LifeSkills	ProjectSUCCESS	S.A.F.E.	Positive Action	Project Venture
70.33%	19.44%	8.49%	1.59%	0.08%	0.08%
(N=1,773)	(N=490)	(N=214)	(N=40)	(N=2)	(N=2)

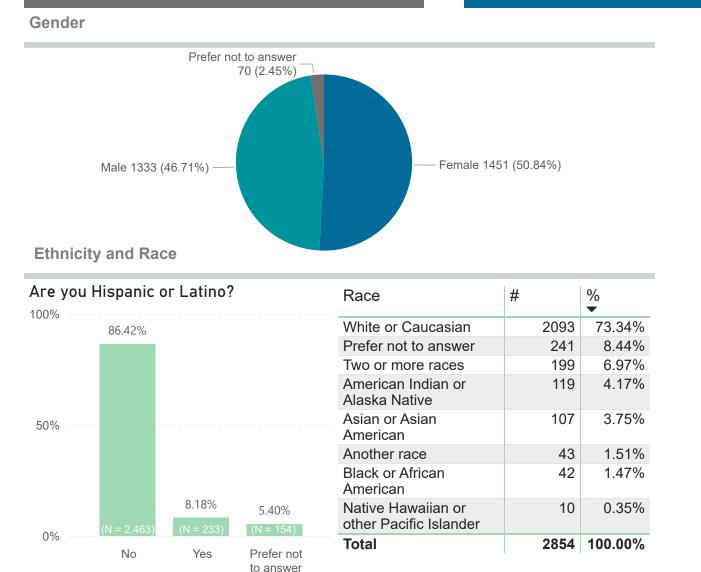
\*Note: "Blank" schools are not included in total unique count of schools that submitted PLIs.

\*\*Note: There were 325 "Not known at this time" responses and 8 blank responses. Total pre- and post-test equals 2,854 or 1,427 matched tests.



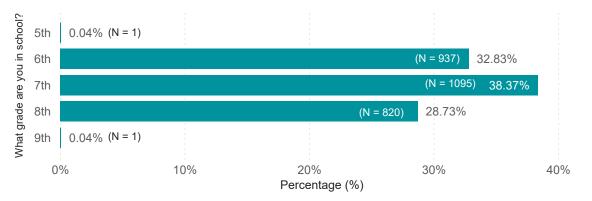
# Demographics

Grade



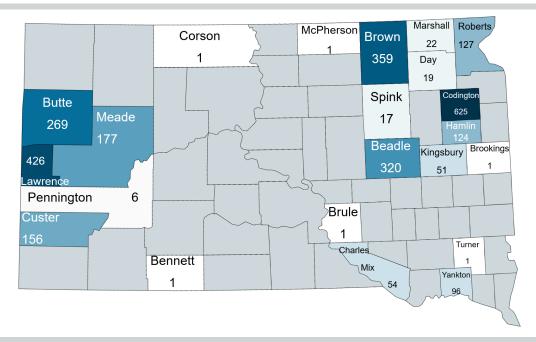
Note: There were 4 blank responses for "Are you Hispanic or Latino?".

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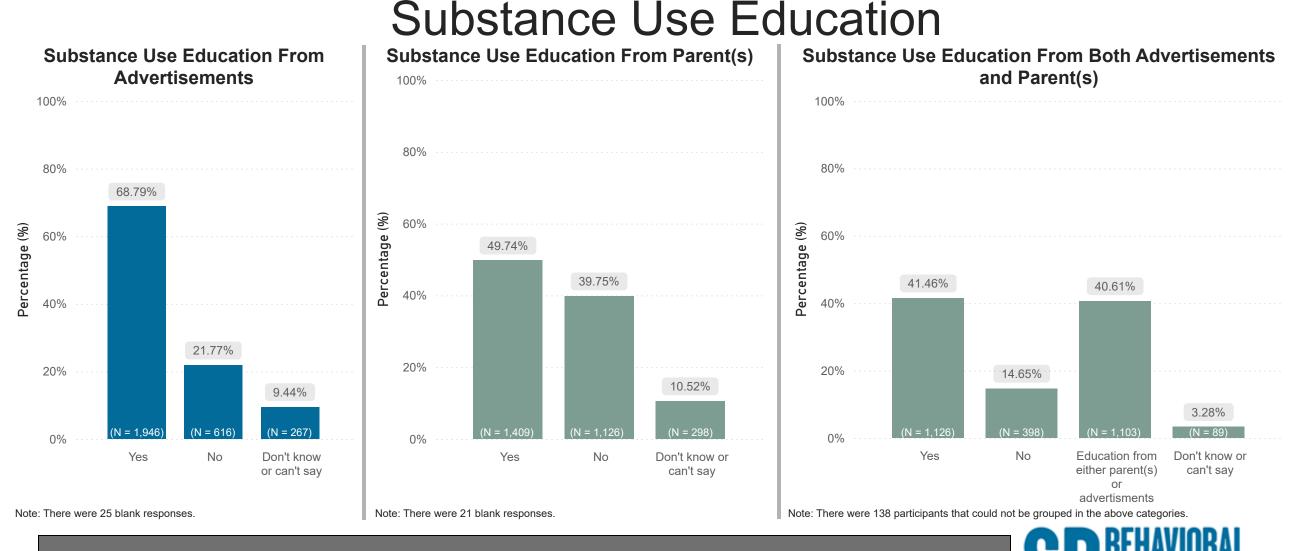


**County Location of Middle School Meth Programming** 

**FY24 State-Level Report** 



**SDBEHAVIORAL** Department of Social Services



- Advertisements are the most common substance use education (68.79%) received by participants.
  - 49.74% of parent(s) provided substance use education to participants.
  - 41.46% of participants received substance use education from advertisements and parent(s).
- 14.65% of participants have never received substance use education from parent(s) or advertisements.

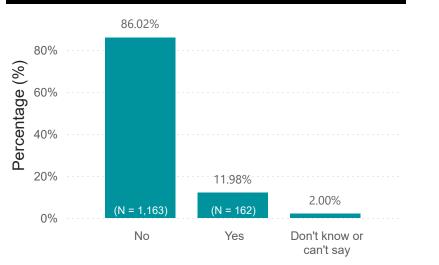
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### FY24 State-Level Report

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# Initiation of Alcohol Use

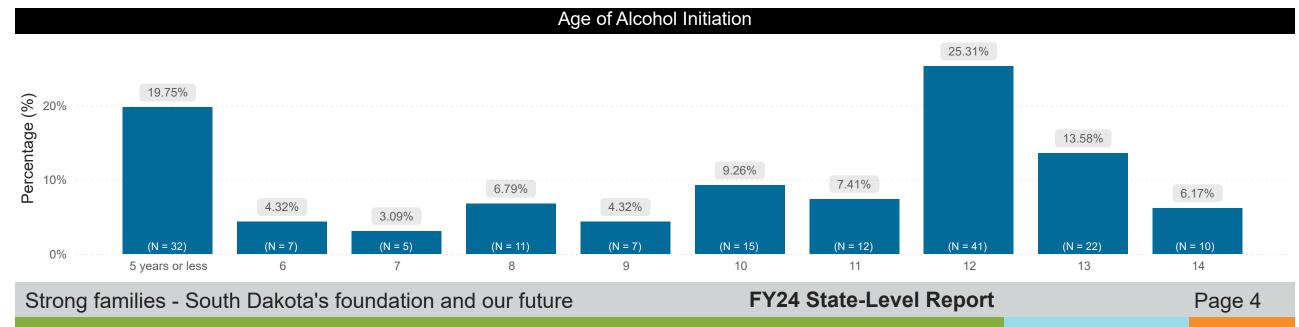
#### Ever Used Alcohol



Note: There were 14 blank responses and 27 "Don't know or can't say" responses.

### State-Level Alcohol Initiation:

- Overall, 86.02% of participants reported having never drank alcohol.
- Of the 11.98% that reported alcohol use, 25.31% initiated alcohol use when they were 12 years old.
- There were 32 participants that marked they tried alcohol for the first time when they were 5 years old or younger.





## Substance Use

#### Past 30 Day Any Alcohol Use

#### Past 30 Day Binge Drinking

### **Substance Use in the Past 30 Days**

• Most participants reported they did not have **any alcoholic beverages** within the past 30 days (97.43%). 2.49% of participants reported they had alcoholic beverages 1 to 15 days in the past 30 days.

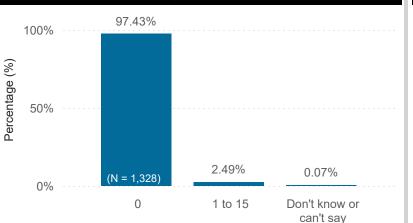
• 1.02% of participants reported they **binge drank** in the past 30 days.

• 1.47% of participants reported they **misused prescription medications** in the past 30-days.

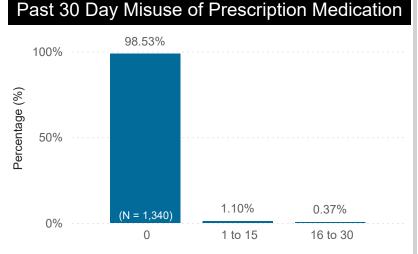
### Lifetime Methamphetamine Use

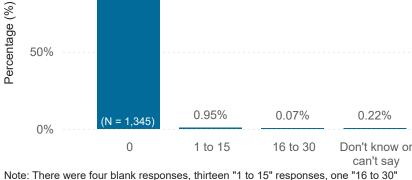
• Overall, 0.58% of participants used methamphetamine in their **lifetime**. 0.07% reported that it was more than 30 times and 0.51% reported they used methamphetamine 1 to 15 times in their life.

• The National Survey on Drug Use and Health (NSDUH), 2021-2022 reports **past year** methamphetamine use for South Dakota youth ages 12-17 was 0.08%.



Note: There were three blank responses, thirty-four "1 to 15" responses, and one "Don't know or can't say" response.





response, and three "Don't know or can't say" responses.

98.75%

100%

#### Lifetime Use of Methamphetamine 99.12% 100% (%) Percentage 50% 0.51% 0.07% 0.29% (N = 1.349)0% 0 1 to 15 30 +Don't know or can't say Note: There were five blank responses, seven "1 to 15" responses, one "30+" response, and

Note: There were six blank responses, fifteen "1 to 15" responses and five "16 to 30" responses.

four "Don't know or can't say" responses.

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### **FY24 State-Level Report**

### BEHAVIORAL Nicotine, E-Cigarettes/Vaping, Marijuana and Synthetic Marijuana Use

Department of Social Services

### Marijuana and Synthetic Marijuana Use

• 1.32% of participants used **marijuana** for 1 to 15 days in the past 30 days.

• 0.15% of participants used **marijuana** 16 to 30 days in the past 30 days.

• 1.47% of youth reported using **synthetic marijuana** in their **lifetime**. 1.18% reported 1 to 15 times, 0.22% reported 16 to 30 times and 0.07% reported more than 30 times.

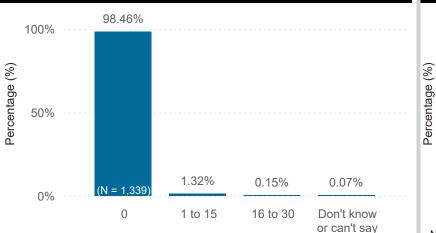
### Nicotine and E-Cigarette or Vaping Use

• 1.40% of participants used **nicotine** 1 to 15 days in the past 30 days.

• The rate of **e-cigarette or vape use** in the past 30 days was 1.47% for 1 to 15 days and 0.44% for 16 to 30 days.

• Overall, 1.91% of participants reported using an **e**cigarette or having vaped within the past 30 days.

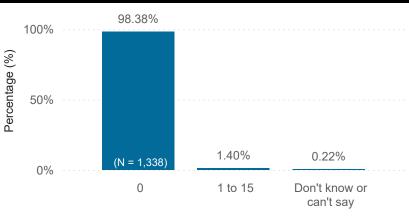
\*Nicotine use is defined by any participation in cigarettes, cigars, hookah, dissolvable tobacco, smokeless tobacco, or nicotine pouches.



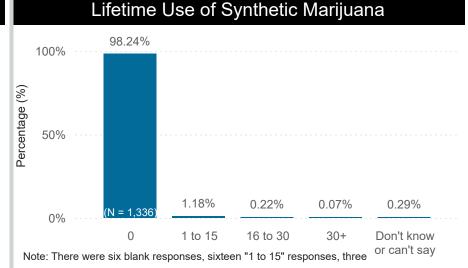
Past 30 Day Marijuana Use

Note: There were six blank responses, eighteen "1 to 15" responses, two "16 to 30" responses and one "Don't know or can't say" response.

#### Past 30 Day Nicotine Use\*

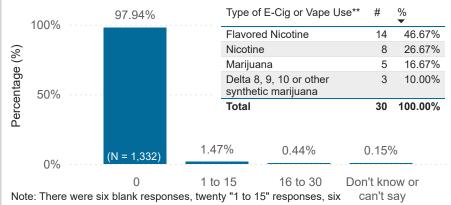


Note: There were six blank responses, nineteen "1 to 15" responses, and three "Don't know or can't say" responses.



"16 to 30" responses, one "30+" response and four "Don't know or can't say" responses.

#### Past 30 Day E-Cigarette or Vape Use



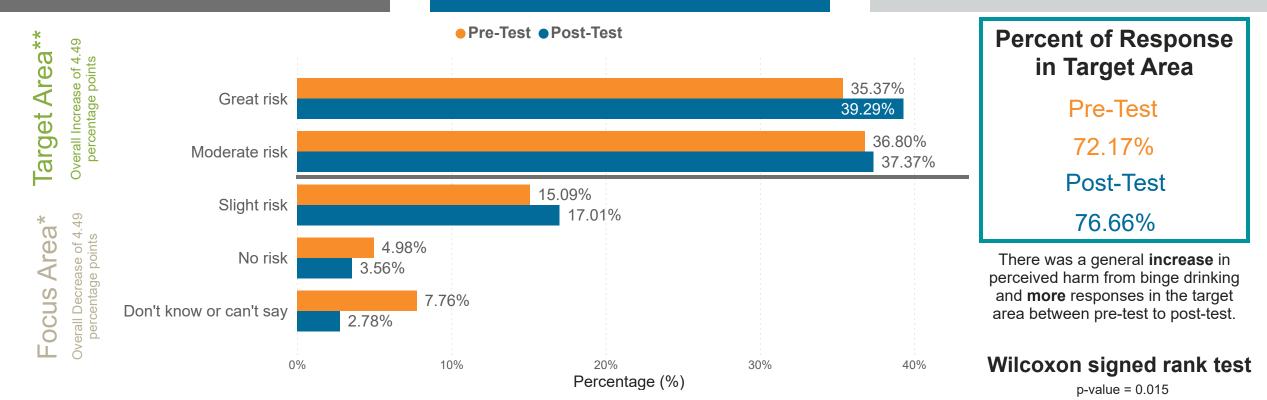
"16 to 30" responses, and two "Don't know or can't say" responses.

\*\*Note: The count of participants that reported a specific type of e-cigarette or vape use (30) in the past 30 days does not match the count of times used (26) in the past month.

### FY24 State-Level Report

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# **Risk of Harm from Binge Drinking**



\*Focus Area is defined as an outcome in perceived harm that should improve or place participant at risk of future substance use. \*\*Target Area is defined as an outcome in perceived harm that is optimal and would indicate hesitancy in future substance use.

	Great Risk	Moderate Risk	Slight Risk	No Risk	Don't Know or Can't Say
Pre-Test	35.37%	36.80%	15.09%	4.98%	7.76%
	(N=497)	(N=517)	(N=212)	(N=70)	(N=109)
Post-Test	39.29%	37.37%	17.01%	3.56%	2.78%
	(N=552)	(N=525)	(N=239)	(N=50)	(N=39)

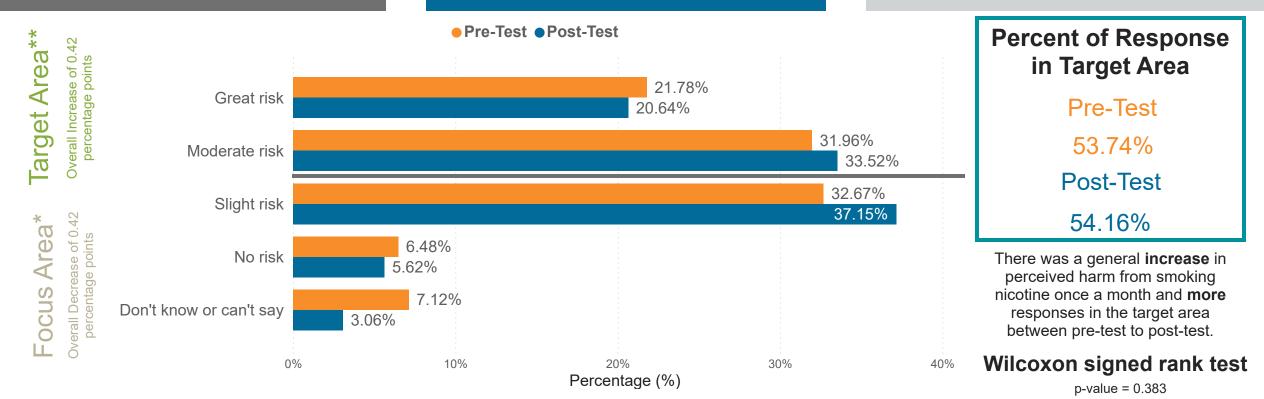
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#### **FY24 State-Level Report**

The difference between the value of the post-test and the pre-test is big enough to

be statistically significant.

# Risk of Harm from Smoking Nicotine Once a Month



\*Focus Area is defined as an outcome in perceived harm that should improve or place participant at risk of future substance use. \*\*Target Area is defined as an outcome in perceived harm that is optimal and would indicate hesitancy in future substance use.

	Great Risk	Moderate Risk	Slight Risk	No Risk	Don't Know or Can't Say
Pre-Test	21.78%	31.96%	32.67%	6.48%	7.12%
	(N=306)	(N=449)	(N=459)	(N=91)	(N=100)
Post-Test	20.64%	33.52%	37.15%	5.62%	3.06%
	(N=290)	(N=471)	(N=522)	(N=79)	(N=43)

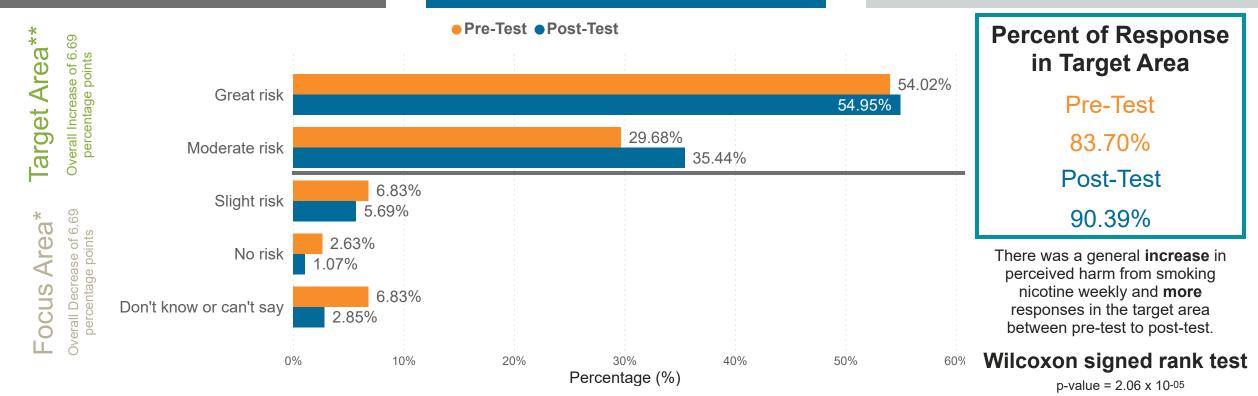
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#### **FY24 State-Level Report**

The difference between the value of the post-test and the pre-test is **not** big enough

to be statistically significant.

# Risk of Harm from Smoking Nicotine Weekly



\*Focus Area is defined as an outcome in perceived harm that should improve or place participant at risk of future substance use. \*\*Target Area is defined as an outcome in perceived harm that is optimal and would indicate hesitancy in future substance use.

	Great Risk	Moderate Risk	Slight Risk	No Risk	Don't Know or Can't Say
Pre-Test	54.02%	29.68%	6.83%	2.63%	6.83%
	(N=759)	(N=417)	(N=96)	(N=37)	(N=96)
Post-Test	54.95%	35.44%	5.69%	1.07%	2.85%
	(N=772)	(N=498)	(N=80)	(N=15)	(N=40)

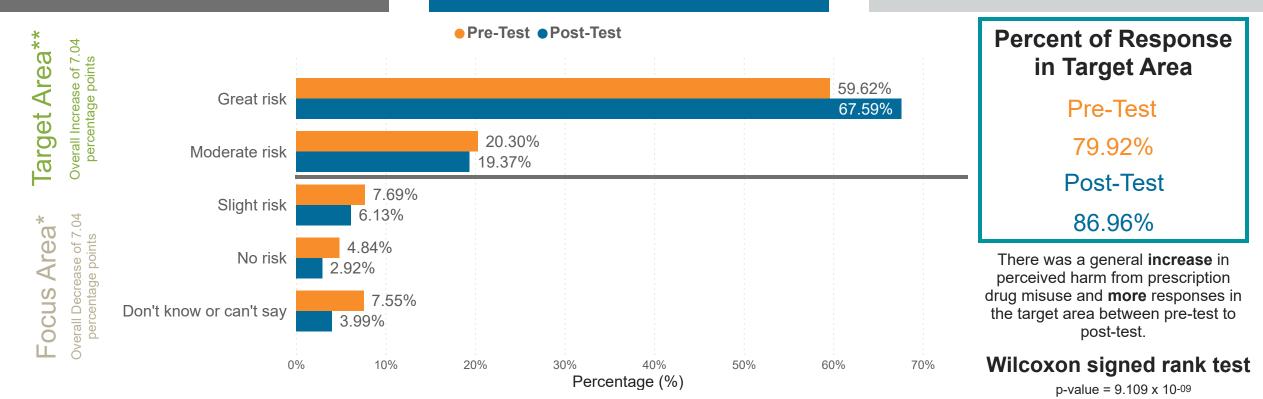
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**FY24 State-Level Report** 

The difference between the value of the post-test and the pre-test is big enough to

be statistically significant.

# Risk of Harm from Prescription Drug Misuse



\*Focus Area is defined as an outcome in perceived harm that should improve or place participant at risk of future substance use. \*\*Target Area is defined as an outcome in perceived harm that is optimal and would indicate hesitancy in future substance use.

	Great Risk	Moderate Risk	Slight Risk	No Risk	Don't Know or Can't Say
Pre-Test	59.62%	20.30%	7.69%	4.84%	7.55%
	(N=837)	(N=285)	(N=108)	(N=68)	(N=106)
Post-Test	67.59%	19.37%	6.13%	2.92%	3.99%
	(N=949)	(N=272)	(N=86)	(N=41)	(N=56)

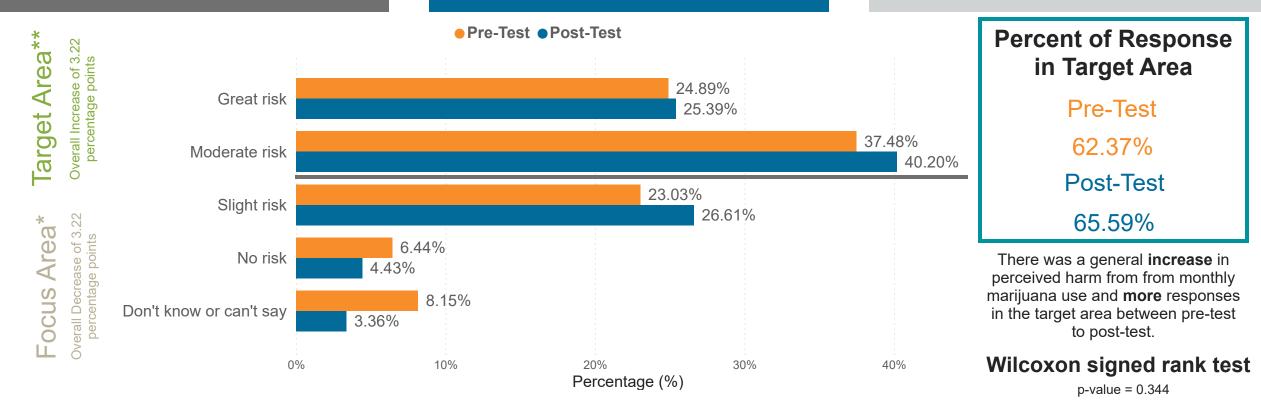
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**FY24 State-Level Report** 

The difference between the value of the post-test and the pre-test is big enough to

be statistically significant.

# Risk of Harm from Monthly Marijuana Use



\*Focus Area is defined as an outcome in perceived harm that should improve or place participant at risk of future substance use. \*\*Target Area is defined as an outcome in perceived harm that is optimal and would indicate hesitancy in future substance use.

	Great Risk	Moderate Risk	Slight Risk	No Risk	Don't Know or Can't Say
Pre-Test	24.89%	37.48%	23.03%	6.44%	8.15%
	(N=348)	(N=524)	(N=322)	(N=90)	(N=114)
Post-Test	25.39%	40.20%	26.61%	4.43%	3.36%
	(N=355)	(N=562)	(N=372)	(N=62)	(N=47)

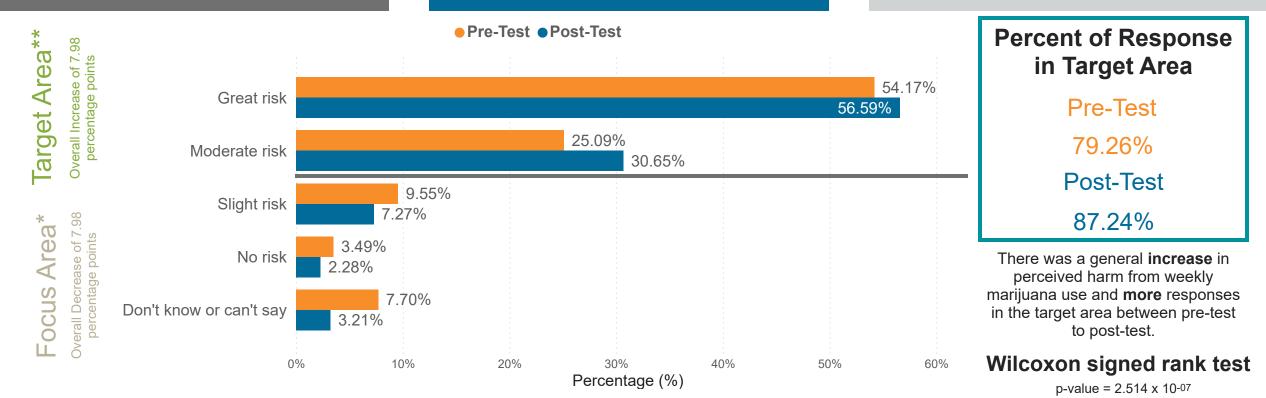
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#### **FY24 State-Level Report**

The difference between the value of the post-test and the pre-test is **not** big enough

to be statistically significant.

# Risk of Harm from Weekly Marijuana Use



\*Focus Area is defined as an outcome in perceived harm that should improve or place participant at risk of future substance use. \*\*Target Area is defined as an outcome in perceived harm that is optimal and would indicate hesitancy in future substance use.

	Great Risk	Moderate Risk	Slight Risk	No Risk	Don't Know or Can't Say
Pre-Test	54.17%	25.09%	9.55%	3.49%	7.70%
	(N=760)	(N=352)	(N=134)	(N=49)	(N=108)
Post-Test	56.59%	30.65%	7.27%	2.28%	3.21%
	(N=794)	(N=430)	(N=102)	(N=32)	(N=45)

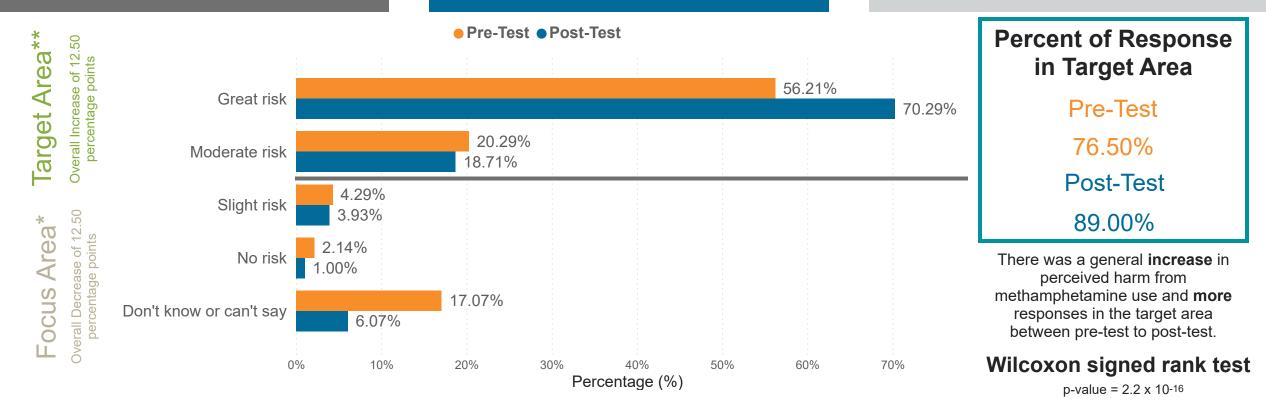
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#### **FY24 State-Level Report**

The difference between the value of the post-test and the pre-test is big enough to

be statistically significant.

# Risk of Harm from Methamphetamine Use



\*Focus Area is defined as an outcome in perceived harm that should improve or place participant at risk of future substance use. \*\*Target Area is defined as an outcome in perceived harm that is optimal and would indicate hesitancy in future substance use.

	Great Risk	Moderate Risk	Slight Risk	No Risk	Don't Know or Can't Say
Pre-Test	56.21%	20.29%	4.29%	2.14%	17.07%
	(N=787)	(N=284)	(N=60)	(N=30)	(N=239)
Post-Test	70.29%	18.71%	3.93%	1.00%	6.07%
	(N=984)	(N=262)	(N=55)	(N=14)	(N=85)

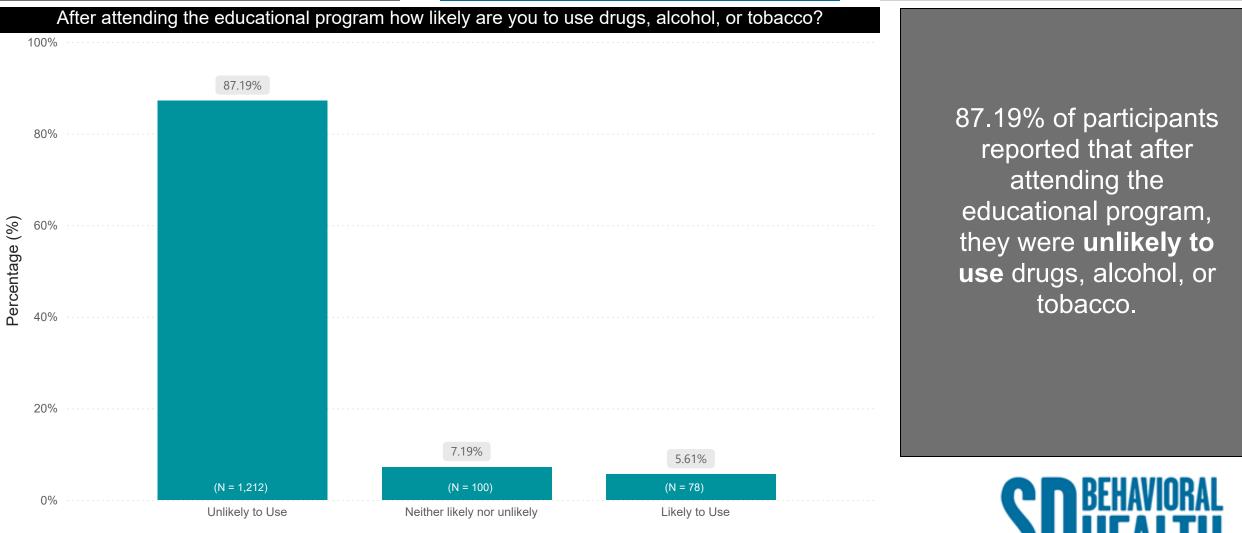
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**FY24 State-Level Report** 

The difference between the value of the post-test and the pre-test is big enough to

be statistically significant.

## Likelihood to Use Drugs, Alcohol, or Tobacco



Definition: **Likely to Use** groups the following three responses, (1) likely, (2) somewhat likely, and (3) very likely; **Unlikely to Use** groups the following three responses (1) unlikely, (2) somewhat unlikely, and (3) very unlikely.

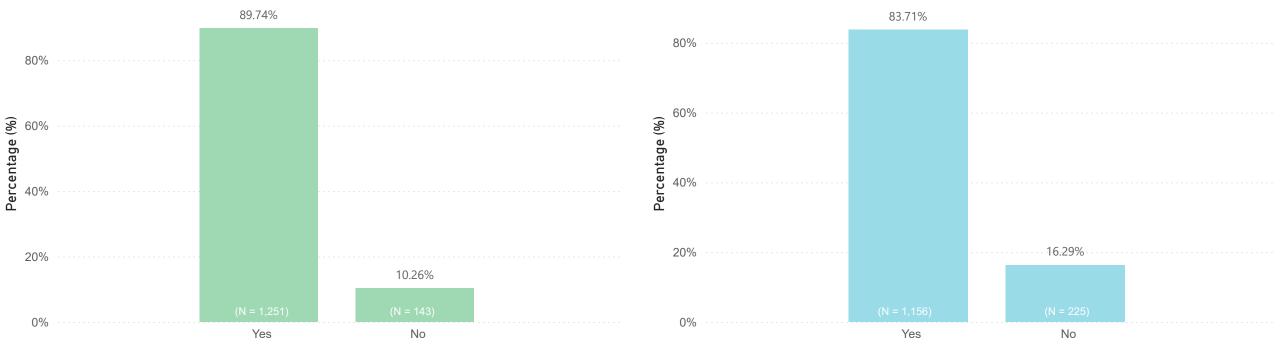
Note: There were 37 blank responses and 1,427 "Pre-test" responses.

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# Views of Risk of Substance Use and Knowledge of Impacts

Would you agree that the educational program used gave you more knowledge about the impacts of drugs, alcohol, and tobacco?

Would you agree that the curriculum provided influenced your views on the risk of substance use?



Note: There were 33 blank responses and 1,427 "Pre-test" responses.

Note: There were 46 blank responses and 1,427 "Pre-test" responses.

• 89.74% of participants agreed the educational program provided them with more knowledge about the impacts of drugs, alcohol, and tobacco.

• 83.71% of participants agreed that the curriculum influenced their views on substance use.



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**FY24 State-Level Report** 

# Summary of FY24 Meth Prevention Program Impact

### **Risk of Harm from Drug Use**

• Between pre-test to post-test, the perception of risk of harm **increased** for all drug-types (binge drinking, smoking nicotine once a month, smoking nicotine weekly, prescription drug misuse, monthly marijuana use, weekly marijuana use, and methamphetamine use).

• This increase was **statistically significant** for binge drinking, smoking nicotine weekly, prescription drug misuse, weekly marijuana use and methamphetamine use.

### Likelihood of Use After Meth Prevention Program

• At the end of the meth prevention program, 87.19% of participants reported they were **unlikely to use drugs**.

### Self-Reported Impact of Meth Prevention Program

- •83.71% of participants agreed that the curriculum influenced their views on substance use.
- •89.74% of participants agreed the educational program provided them with more **knowledge about the impacts** of drugs, alcohol, and tobacco.

### **Efficacy Checkpoint**

The program successfully increased the perceived risk of harm from methamphetamine use. Specifically, "Don't know or can't say" responses decreased from 17.07% at pre-test to 6.07% at post-test or decreased by **eleven percentage points**.

At post-test, 89.00% of participants felt using methamphetamine was a great or moderate risk of harm. This is an increase of 12.50 percentage points between pre-test and post-test, which is a **statistically significant** change in perceived harm from methamphetamine use.



