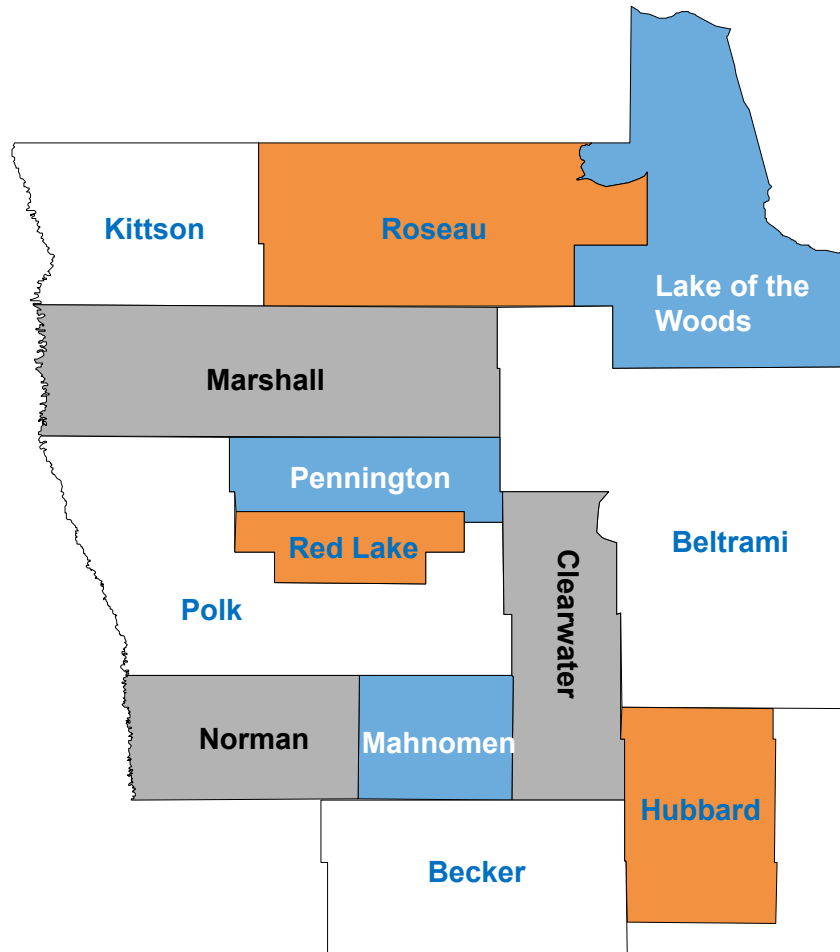


DATA COME HOME

Using Local Data to Mobilize Support for Prevention Efforts

Region 1: Northwest





Consequences

Alcohol

	NORTHWEST REGION	MINNESOTA
2015 ARMV incident costs per capita	\$108	\$50
% of crashes that were alcohol-related in 2015	8.2%	4.9%
2015 ARMV fatalities	5 per 100,000	3 per 100,000
2015 DWI by location of residence	61.0 per 10,000	44.7 per 10,000

Tobacco

- The 2015 rate of lung, bronchus, and trachea cancer deaths for the Northwest Region was 53 per 100,000 population—higher than the state rate of 45
- It is estimated that 90% of lung cancer deaths among males and 79% among females are smoking-related
- According to the Surgeon General's report, smoking harms nearly every organ in the body, causing many diseases (including coronary heart disease—the leading cause of death in the US)



Minnesota Student Survey

2016 MSS

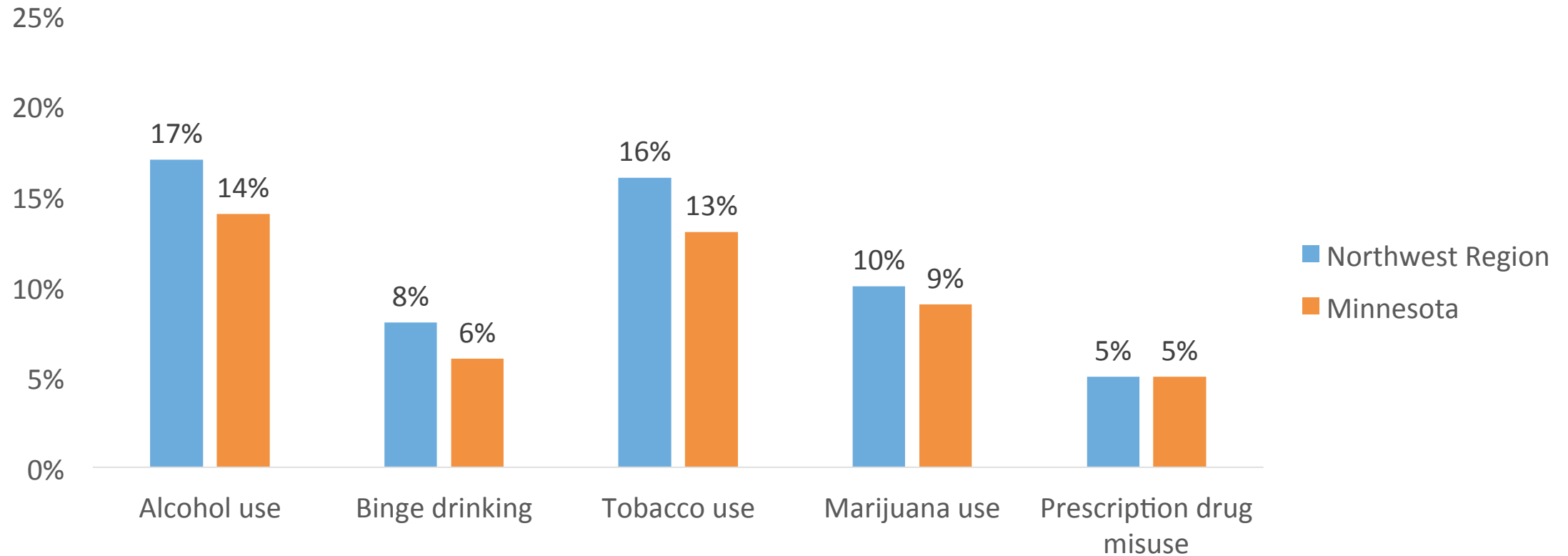
- Administered in the first half of 2016 to public school students in grades 5, 8, 9, and 11
- 85.5% of public operating school districts participated
- Overall participation across the four grades was approximately 66% of total enrollment
- **Northwest Region students make up 5.0% of the overall statewide sample**



Substance Use

Overview

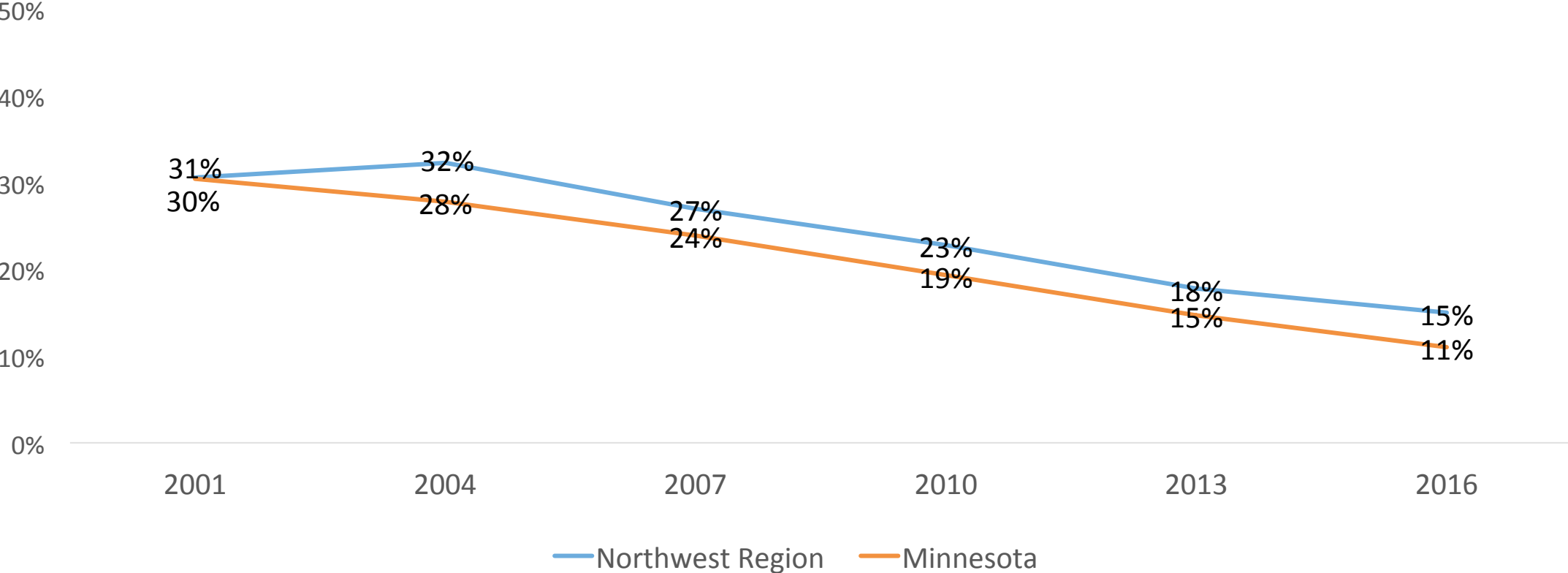
8th, 9th, + 11th Graders Reporting Past-Month Alcohol Use, 2016 MSS



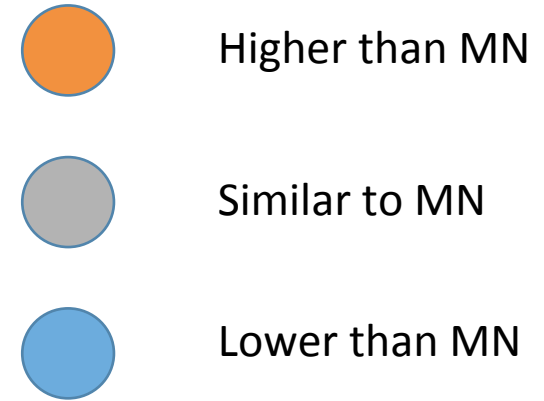
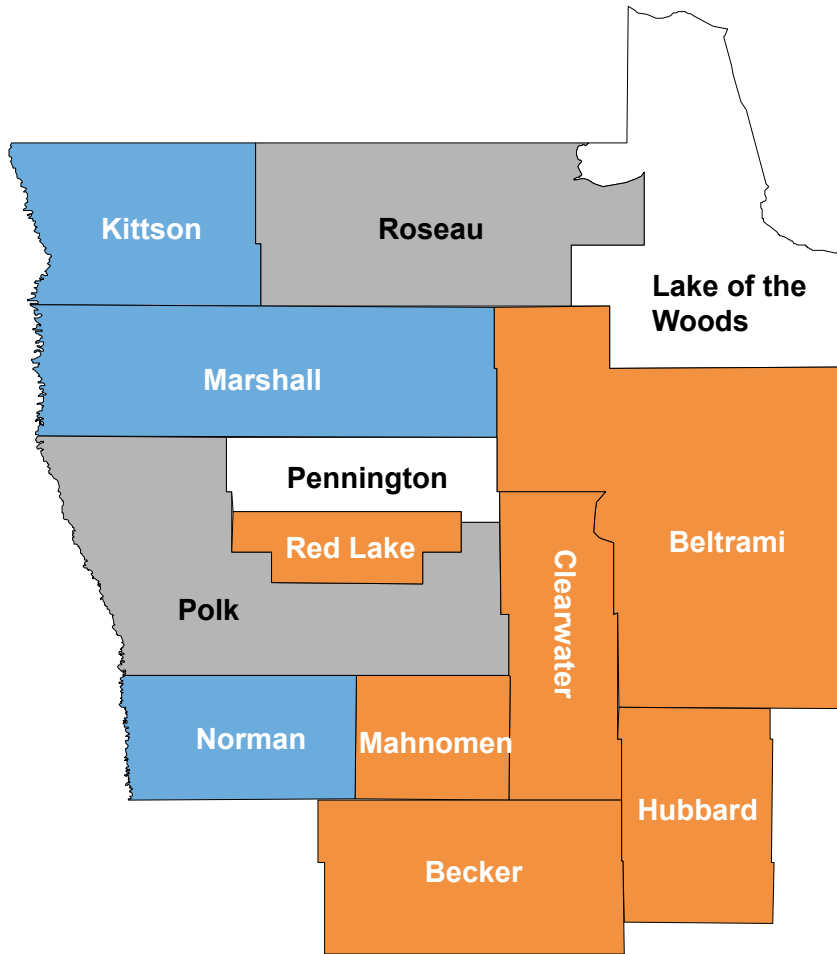
Past-Month Alcohol Use

23% of 9th graders nationally reported past-month use (2015 YRBS)

9th Graders Reporting Any Past-Month Alcohol Use, by Year, MSS



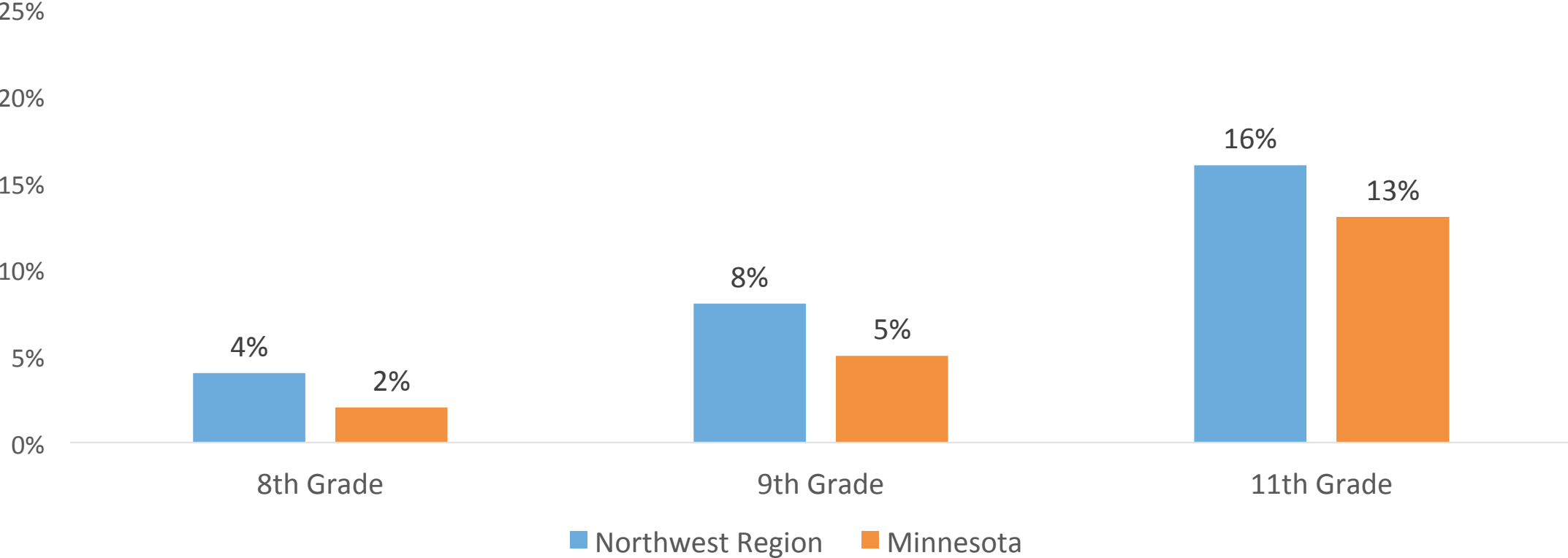
Past-Month Alcohol Use



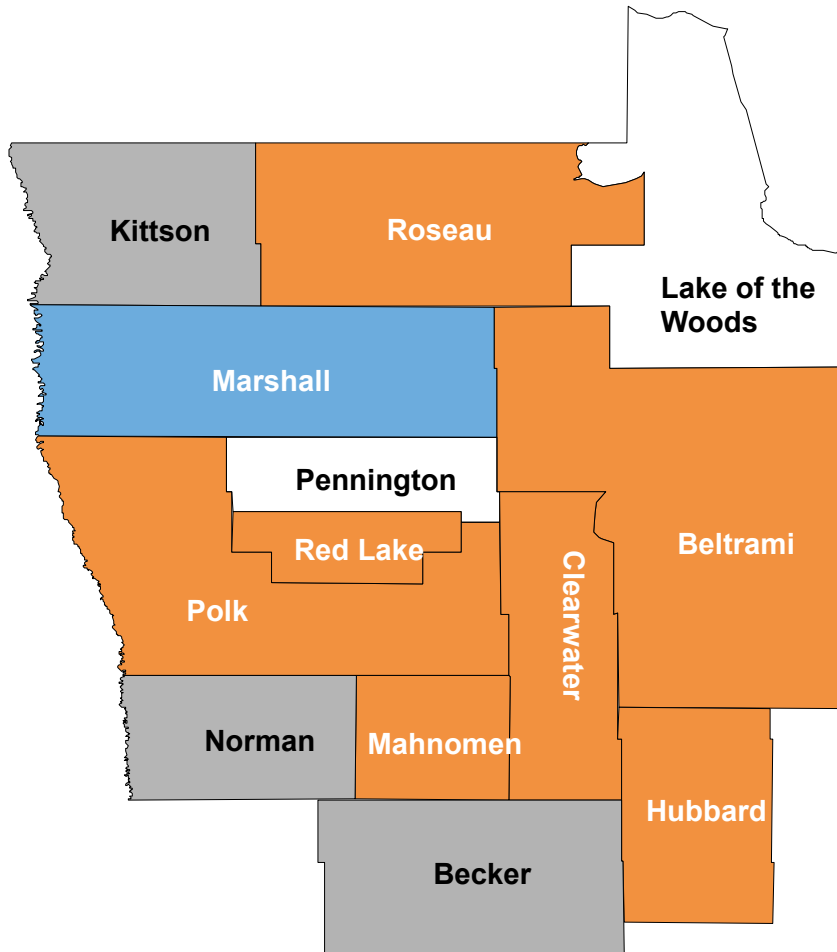
Past-Month Binge Drinking

Nationally, 10% of 9th graders + 22% of 11th graders reported past-month binge drinking (2015 YRBS)

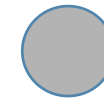
Students Reporting Past-Month Binge Drinking, 2016 MSS



Past-Month Binge Drinking



Higher than MN



Similar to MN

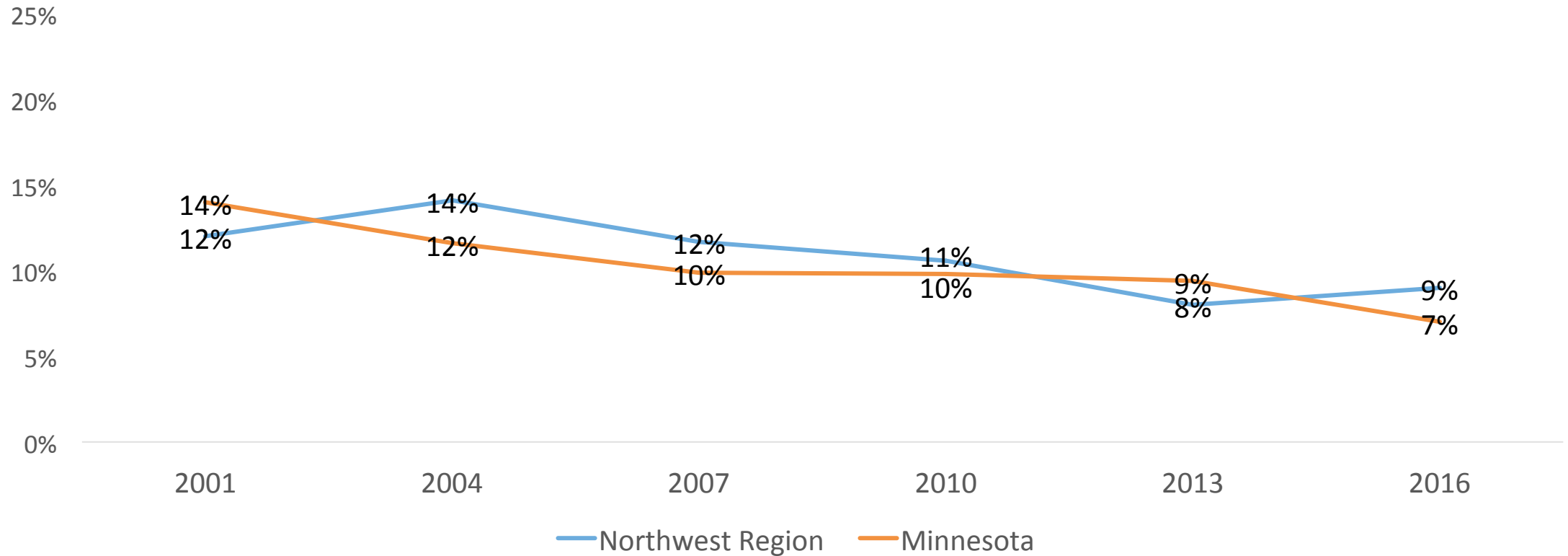


Lower than MN

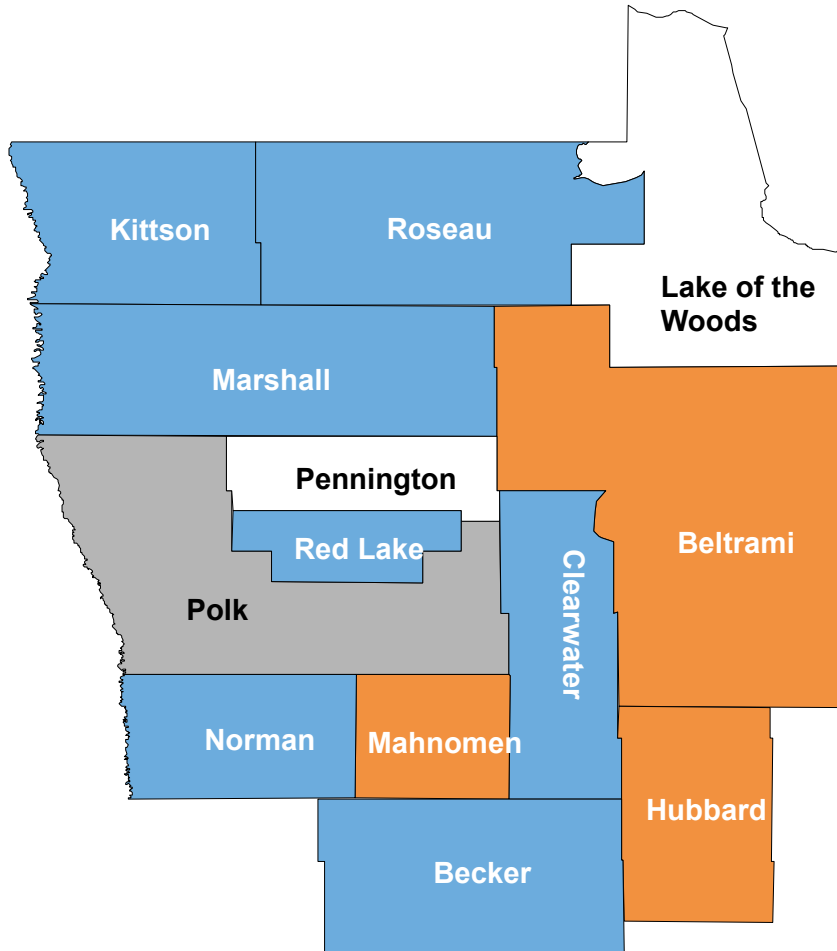
Past-Month Marijuana Use

15% of 9th graders nationally reported past-month use (2015 YRBS)

9th Graders Reporting Any Past-Month Marijuana Use, by Year, MSS



Past-Month Marijuana Use



Higher than MN



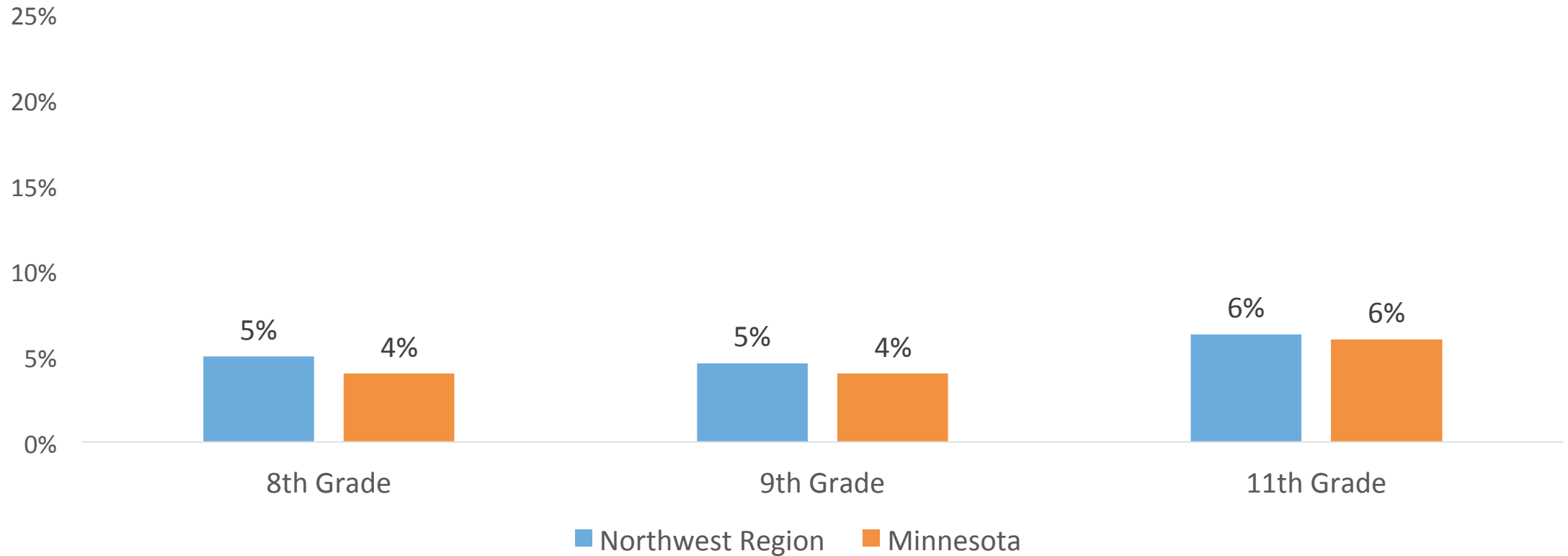
Similar to MN



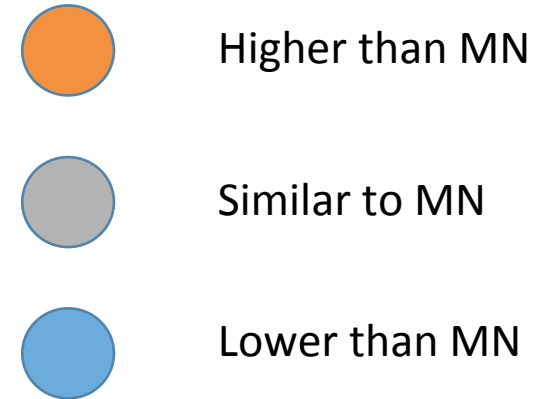
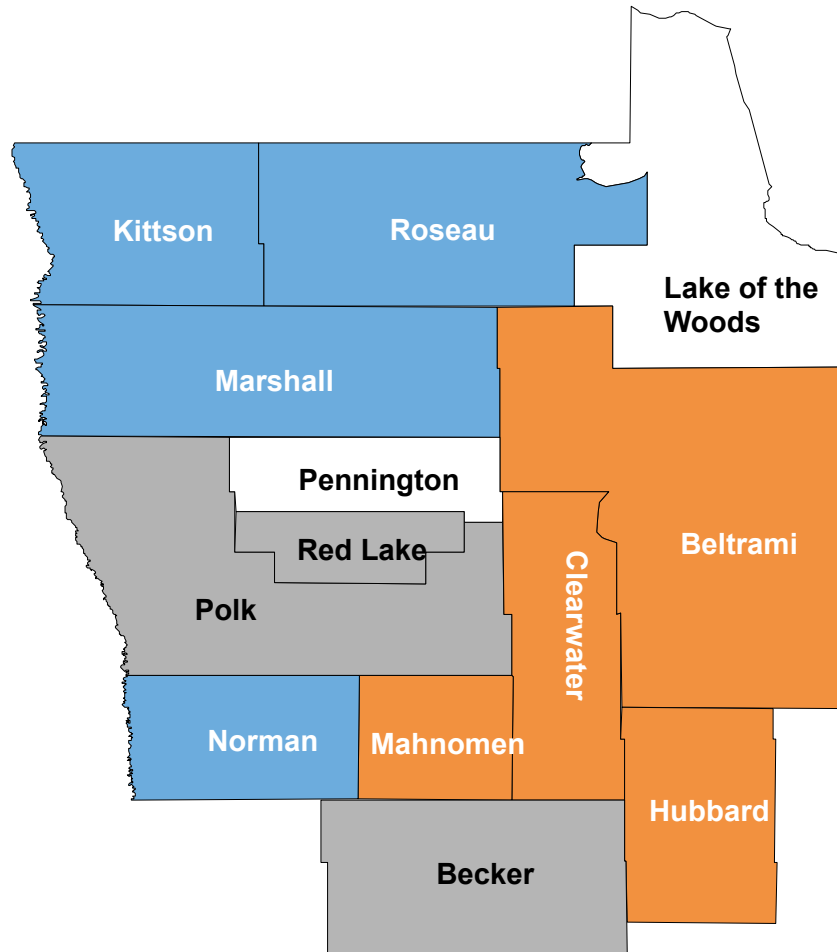
Lower than MN

Past-Month Prescription Drug Misuse

Students Reporting Past-Month Prescription Drug Misuse, 2016 MSS



Past-Month Prescription Drug Misuse





Risk + Protective Factors

Definitions

Risk Factors

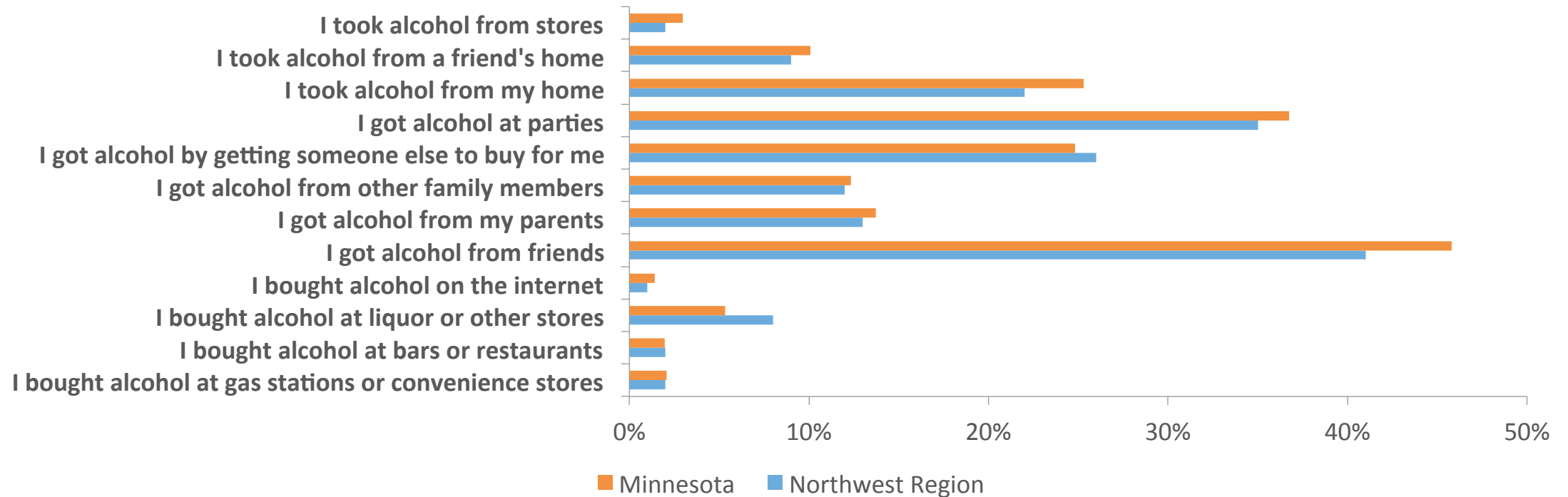
Individual characteristics and environmental influences associated with an **increased vulnerability** to the initiation, continuation, or escalation of substance use

Protective Factors

Individual resilience and other circumstances that are associated with a **reduction in the likelihood** of substance use

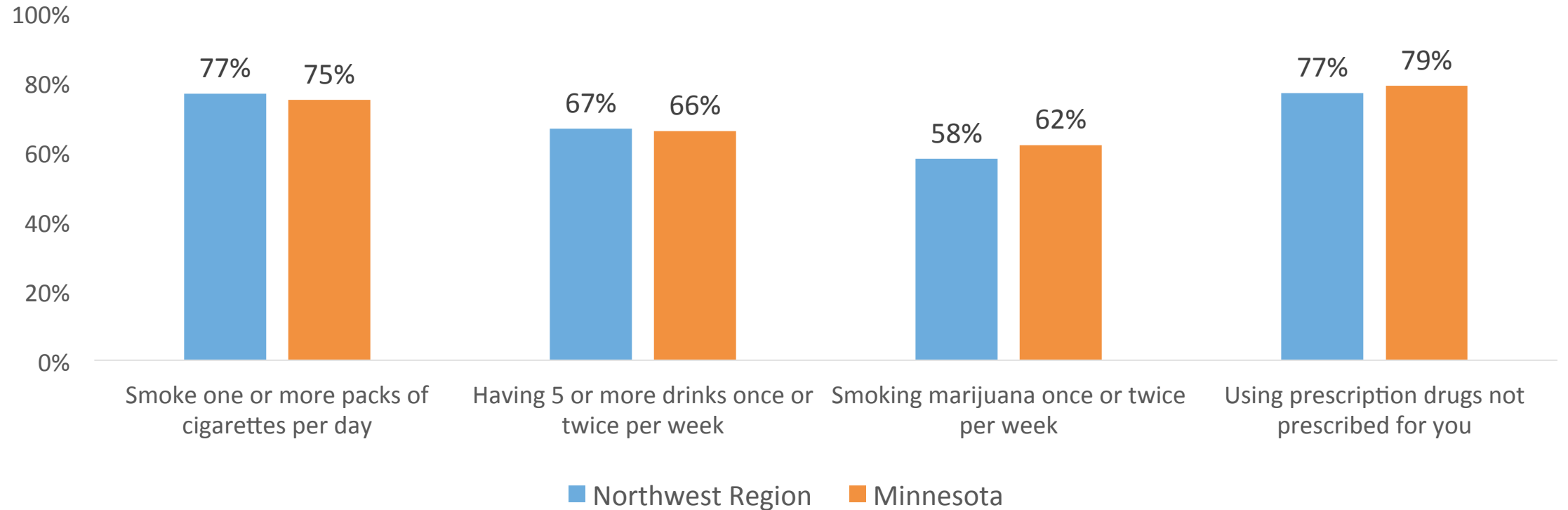
Alcohol Access (Question not included on 2016 survey)

Alcohol Sources for 8th, 9th, + 11th Graders Reporting Any Past Past Month Use, 2013 MSS



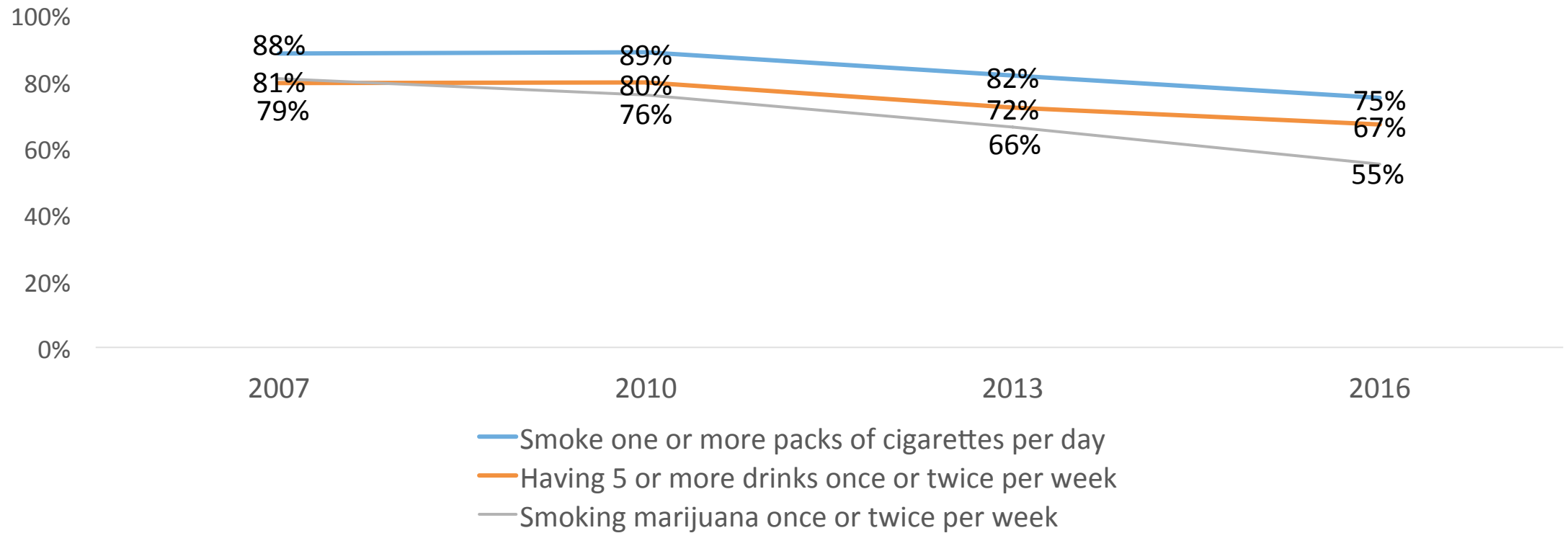
Perceived Risk of Harm

5th, 8th, 9th, + 11th Graders' Perceived Risk of Great or Moderate Harm from Substance Use, 2016 MSS

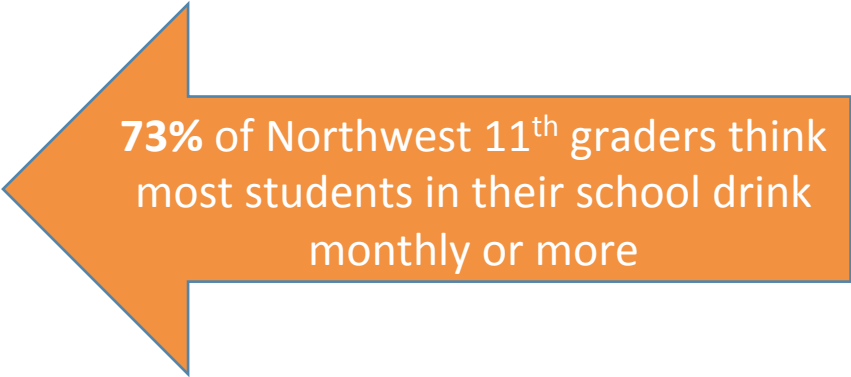


Perceived Risk of Harm

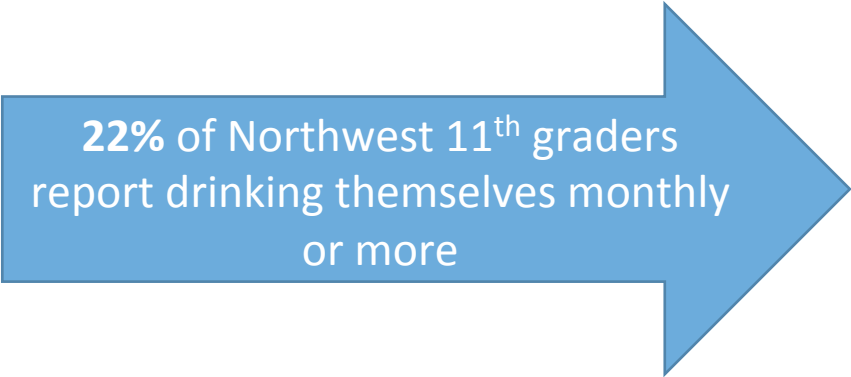
Northwest Region 9th Graders' Perceived Great or Moderate Risk of Harm from Substance Use, by Year (MSS)



Perceived vs Actual Use



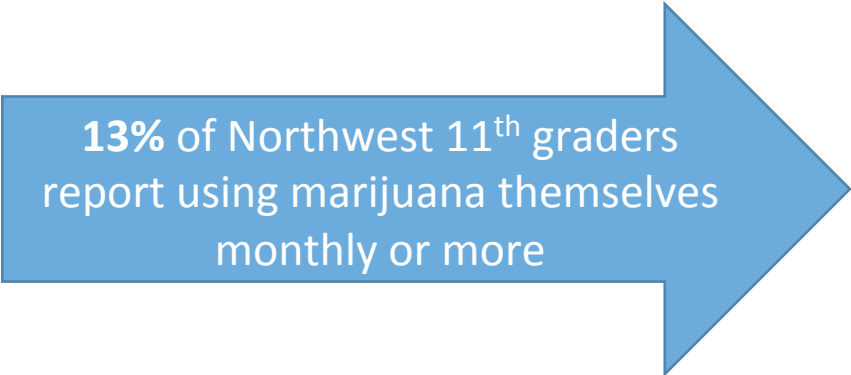
73% of Northwest 11th graders think most students in their school drink monthly or more



22% of Northwest 11th graders report drinking themselves monthly or more



65% of Northwest 11th graders think most students in their school use marijuana monthly or more



13% of Northwest 11th graders report using marijuana themselves monthly or more

Risk Ratios

- Compare level of risk between two different student groups
- Show association, *not* causation
- Can vary from community to community
- Example:

$$\frac{\text{Students getting mostly A grades}}{\text{Students who didn't drink in the past month}} : \frac{\text{Students getting mostly A grades}}{\text{Students who DID drink in the past month}}$$

Comparison Groups



Be mindful of
the comparison
groups!

Northwest youth who think MOST students drink monthly or more often are **6.0x** more likely to report they drink monthly or more

vs

Northwest youth who drink monthly or more often are **1.8x** more likely to say they think MOST students drink monthly or more often

Northwest youth who reported being bullied in the past month are **2.3x** more likely to report past 30-day prescription drug misuse

vs

Northwest youth who reported past 30-day prescription drug misuse are **1.5x** more likely to report having been bullied in the past month

Alcohol Use

Students reporting NO past-month alcohol use were...

NORTHWEST REGION	MINNESOTA	<i>Less</i> likely to report past month use of...
Almost 8x	Almost 9x	Tobacco
Over 10x	Almost 12x	Marijuana
7x	Almost 8x	Prescription drugs not prescribed for them

Tobacco Use

Students reporting NO past-month tobacco use were...

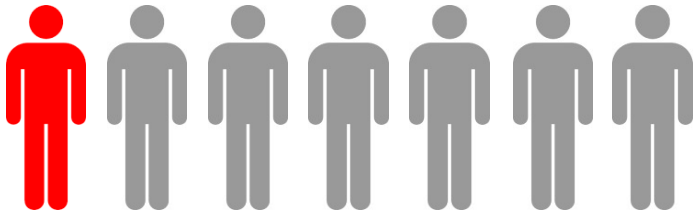
NORTHWEST REGION	MINNESOTA	<i>Less</i> likely to report past month use of...
Over 7x	8x	Alcohol
Almost 12x	Over 16x	Marijuana
Almost 8x	Almost 8x	Prescription drugs not prescribed for them

Mental Health



Suicidal Ideation

Over 1 of 7 Northwest (13.0%) + Minnesota (11.8%) 8th, 9th, + 11th graders reported past-year suicidal ideation



Northwest students reporting past-year suicidal ideation were:

- **2.5x** more likely to report alcohol use
- **2.6x** more likely to report tobacco use
- **4.4x** more likely to report marijuana use
- **5.5x** more likely to report Rx drug misuse

Depression

About 1 of 4 Northwest (24%) + Minnesota (22%) 8th, 9th, + 11th graders reported past-year significant problems with feeling very depressed



Northwest students reporting past-year significant problems with feeling very depressed were:

- **1.8x** more likely to report alcohol use
- **2.1x** more likely to report tobacco use
- **3.0x** more likely to report marijuana use
- **3.7x** more likely to report Rx drug misuse

Self-Harm

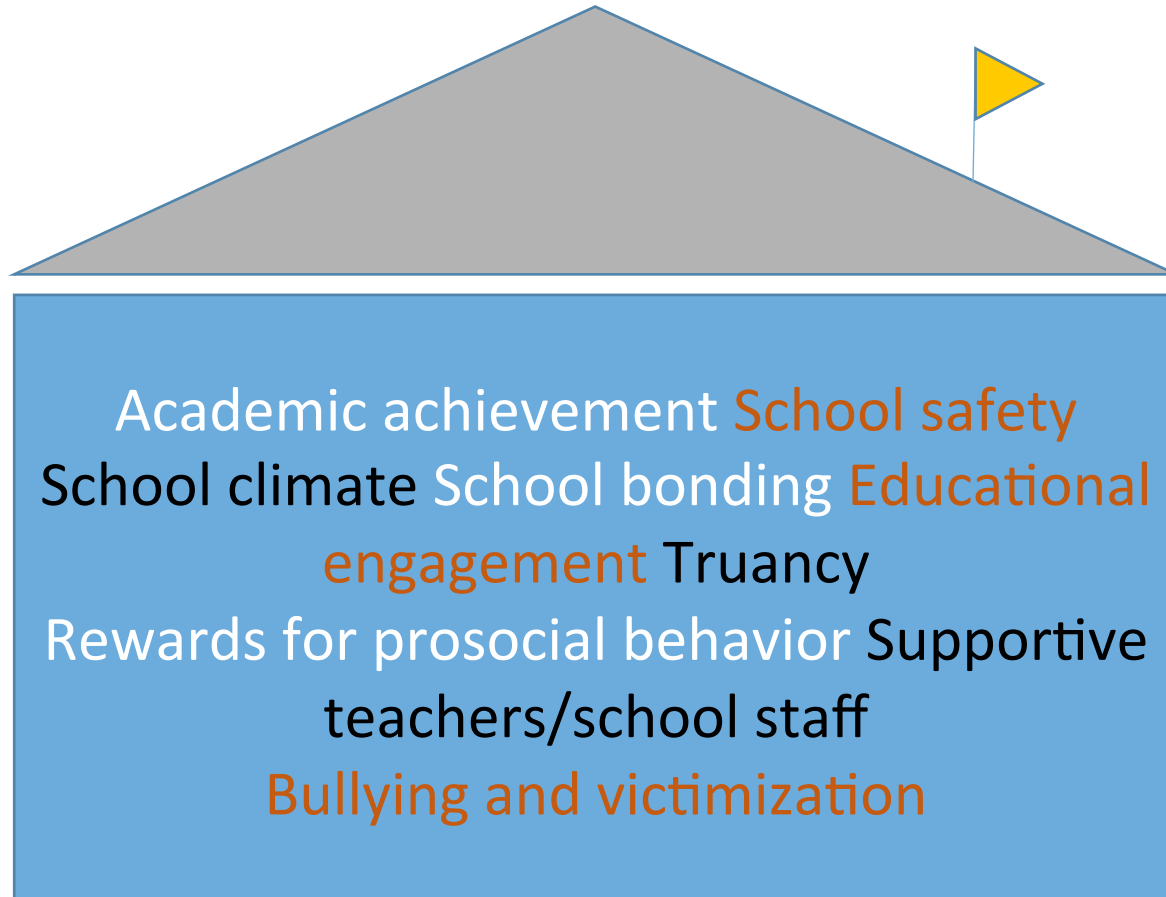
Roughly 1 out of 6 (17%)
Northwest + Minnesota 8th, 9th, +
11th graders reported past-year
self-harm



Northwest students reporting
past-year self-harm were:

- **2.3x** more likely to report alcohol use
- **2.7x** more likely to report tobacco use
- **3.9x** more likely to report marijuana use
- **5.0x** more likely to report Rx drug misuse

School

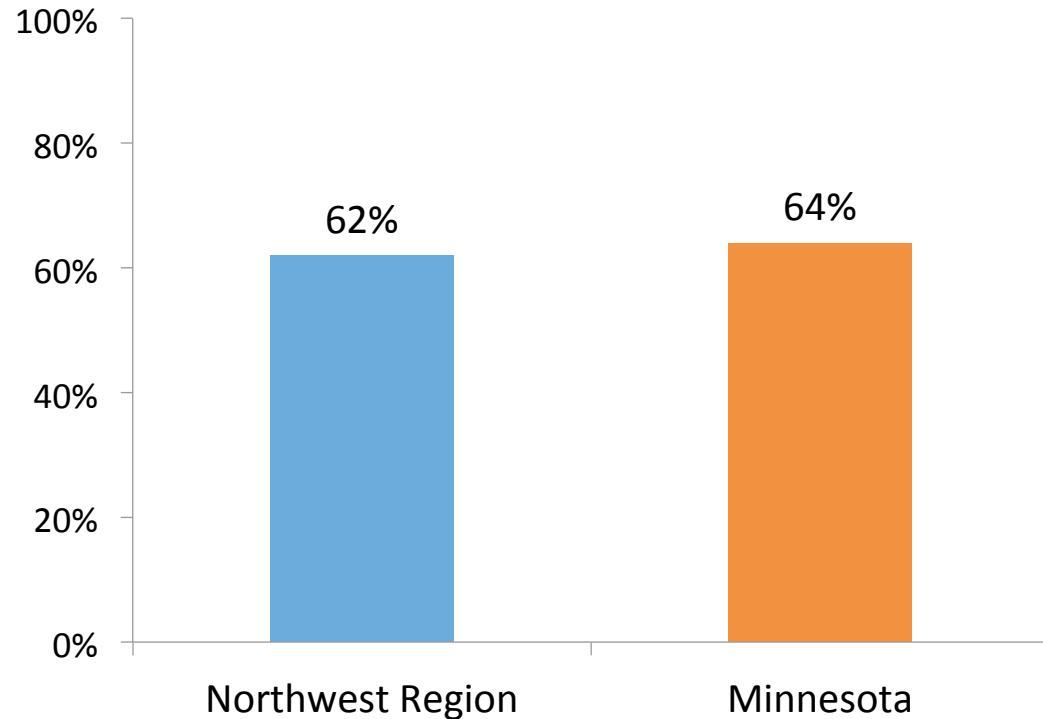


Teacher-Student Relationships

- Overall, adults at my school treat students fairly
- Adults at my school listen to the students
- The school rules are fair
- At my school, teachers care about students
- Most teachers at my school are interested in me as a person

Teacher-Student Relationships

Students Reporting Better Teacher-Student Relationships



Northwest students reporting better teacher-student relationships were:

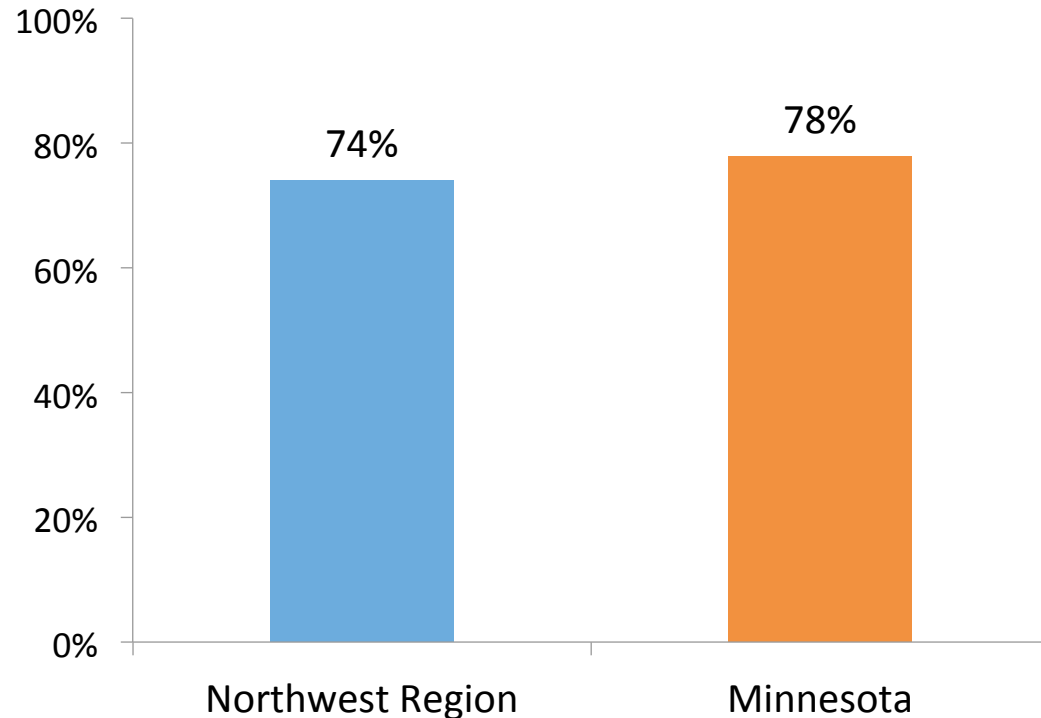
- **2.5x** less likely to report alcohol use
- **2.7x** less likely to report tobacco use
- **3.5x** less likely to report marijuana use
- **2.7x** less likely to report Rx drug misuse

Educational Engagement

- How often do you care about doing well in school?
- How often do you pay attention in class?
- How often do you go to class unprepared?
- If something interests me, I try to learn more about it.
- I think the things I learn at school are useful.
- Being a student is one of the most important parts of who I am.

Educational Engagement

Students Reporting Greater Educational Engagement



Northwest students reporting greater educational engagement were:

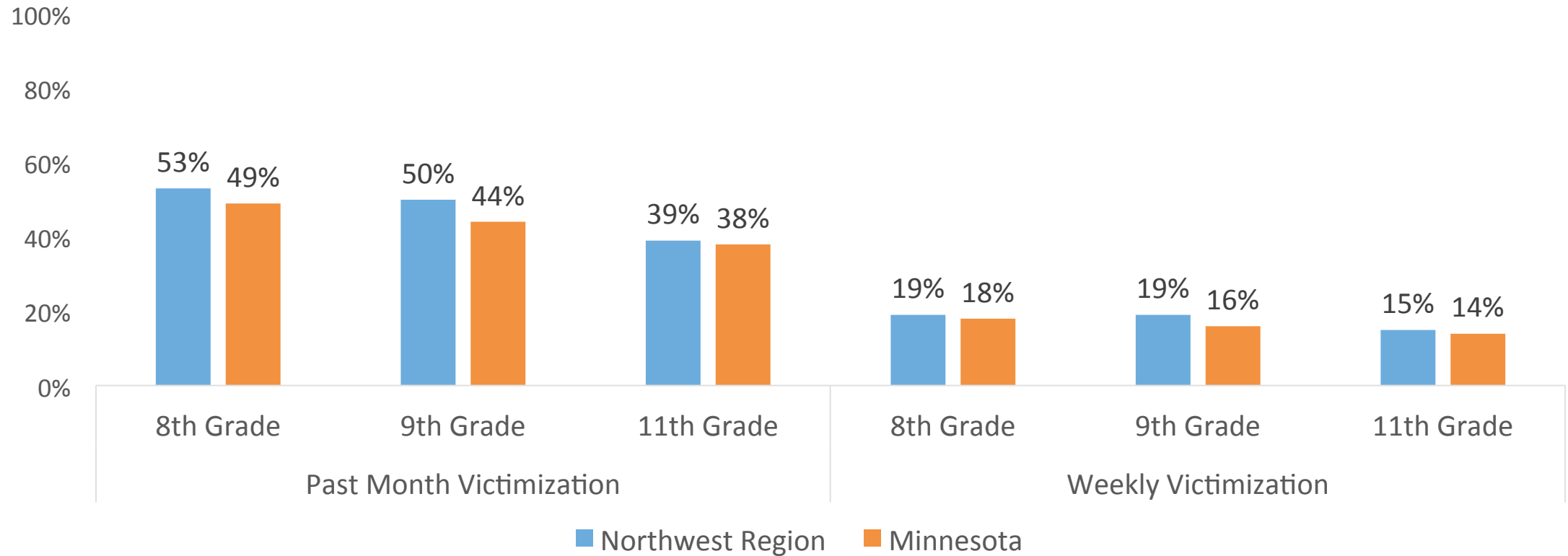
- **2.3x** less likely to report alcohol use
- **3.1x** less likely to report tobacco use
- **3.5x** less likely to report marijuana use
- **3.1x** less likely to report Rx drug misuse

Bullying

- Students spread mean rumors or lies about you once or more in past month
- Students excluded you from friends, other students, or activities in past month
- Students made sexual jokes, comments, or gestures towards you in past month
- Students pushed, shoved, slapped, hit or kicked you once or more in past month
- Students threatened to beat you up once or more in past month

Bullying

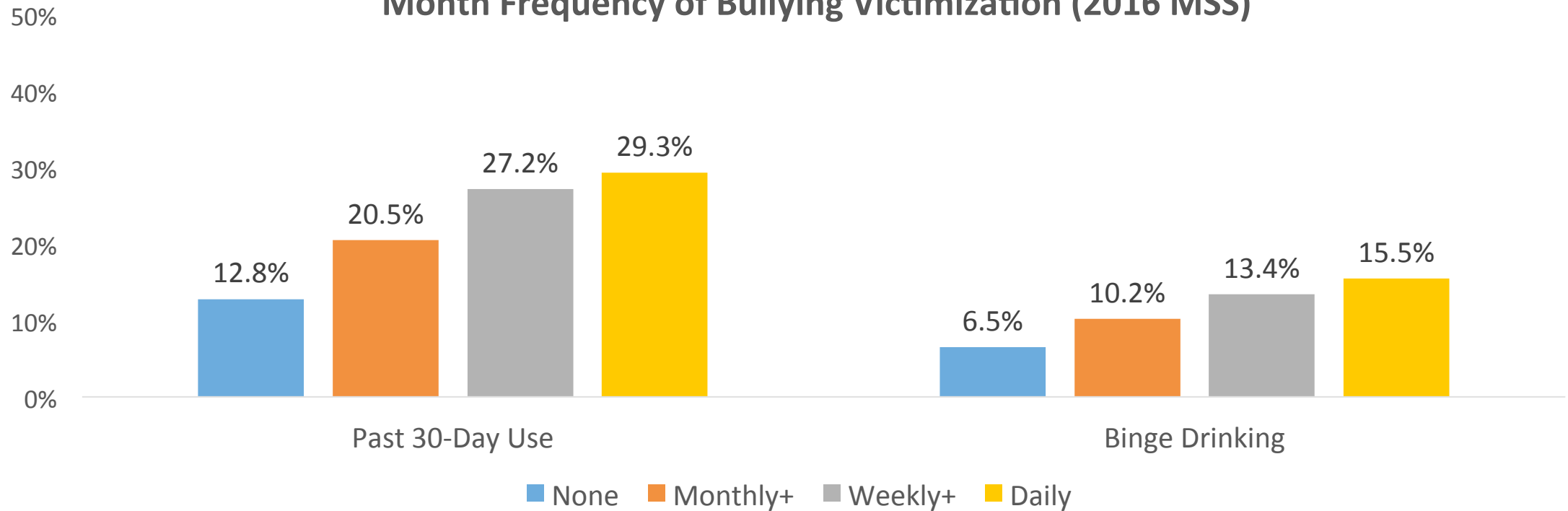
Students Reporting Bullying Victimization, by Frequency + Grade, 2016 MSS



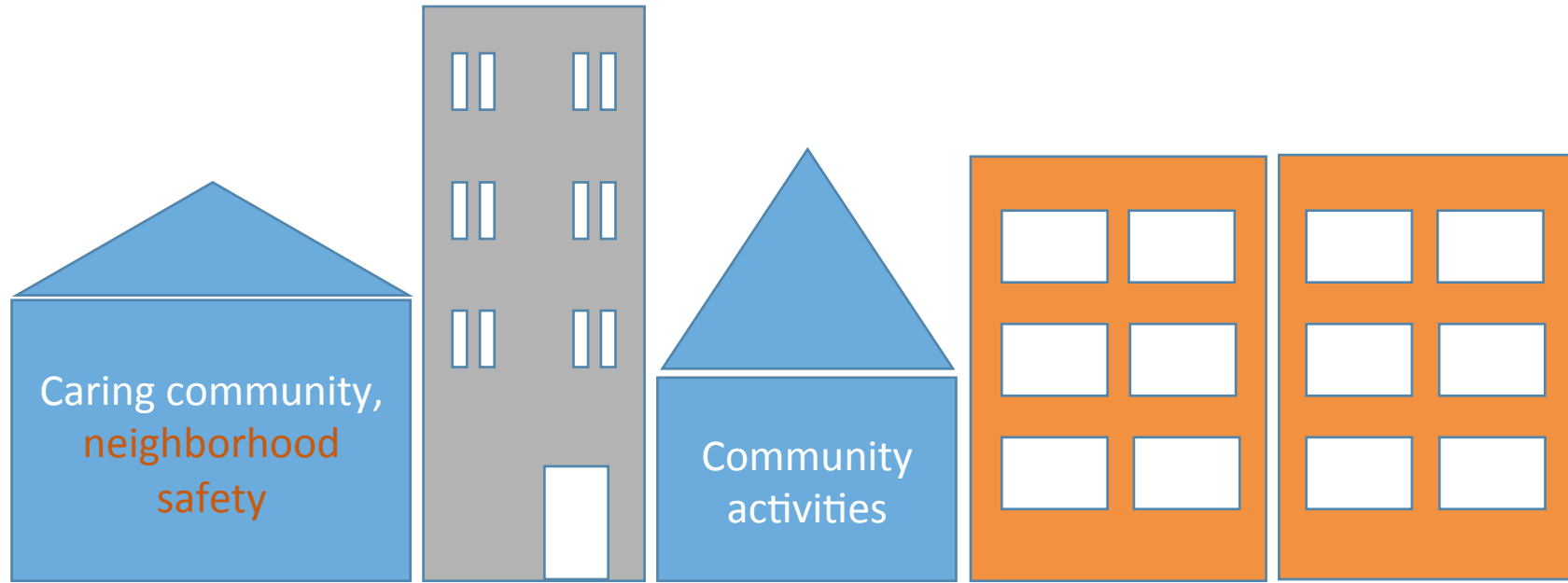
Bullying

Compared to Minnesota students who said they weren't bullied in the past month, those bullied were **3.4 times** more likely to report suicidal ideation

Minnesota Students Reporting Past Month Drinking + Binge Drinking, by Past Month Frequency of Bullying Victimization (2016 MSS)

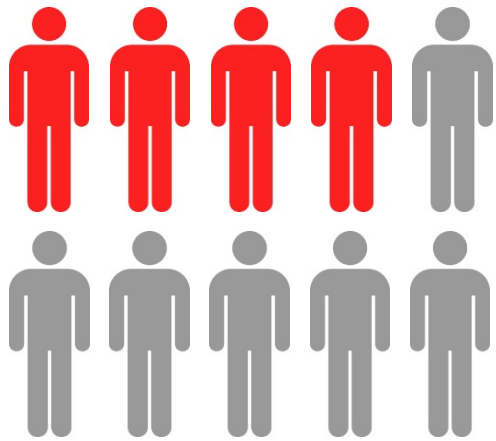


Community



Caring Community

4 out of 10 Northwest 5th, 8th, 9th, + 11th graders say they think adults in their community care about them quite a bit or very much

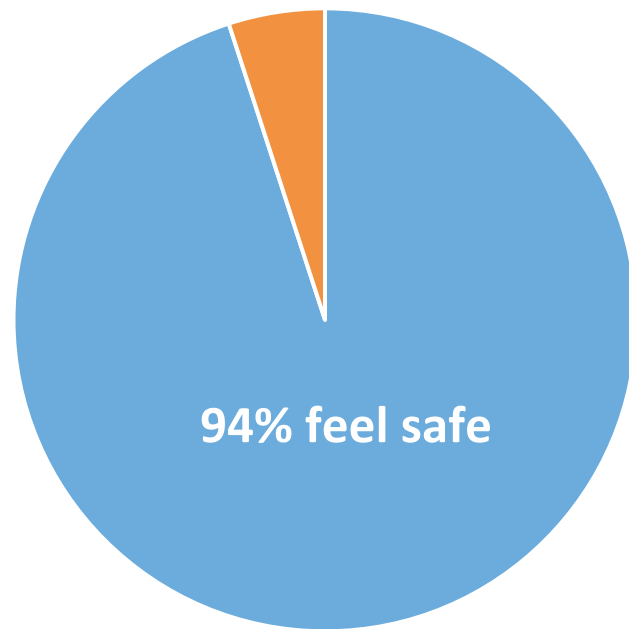


However, those who do feel their community cares were:

- **1.8x** less likely to report alcohol use
- **1.9x** less likely to report tobacco use
- **2.4x** less likely to report marijuana use
- **2.2x** less likely to report Rx drug misuse

Neighborhood Safety

Northwest 5th, 8th, 9th, + 11th
Graders Reporting They Feel Safe in
Their Neighborhood, 2016 MSS



Northwest 8th, 9th, + 11th graders
who don't feel safe in their
neighborhood are:

- **1.6x** more likely to report alcohol use
- **1.8x** more likely to report tobacco use
- **2.4x** more likely to report marijuana use
- **3.3x** more likely to report Rx drug misuse

Participation in Community Activities

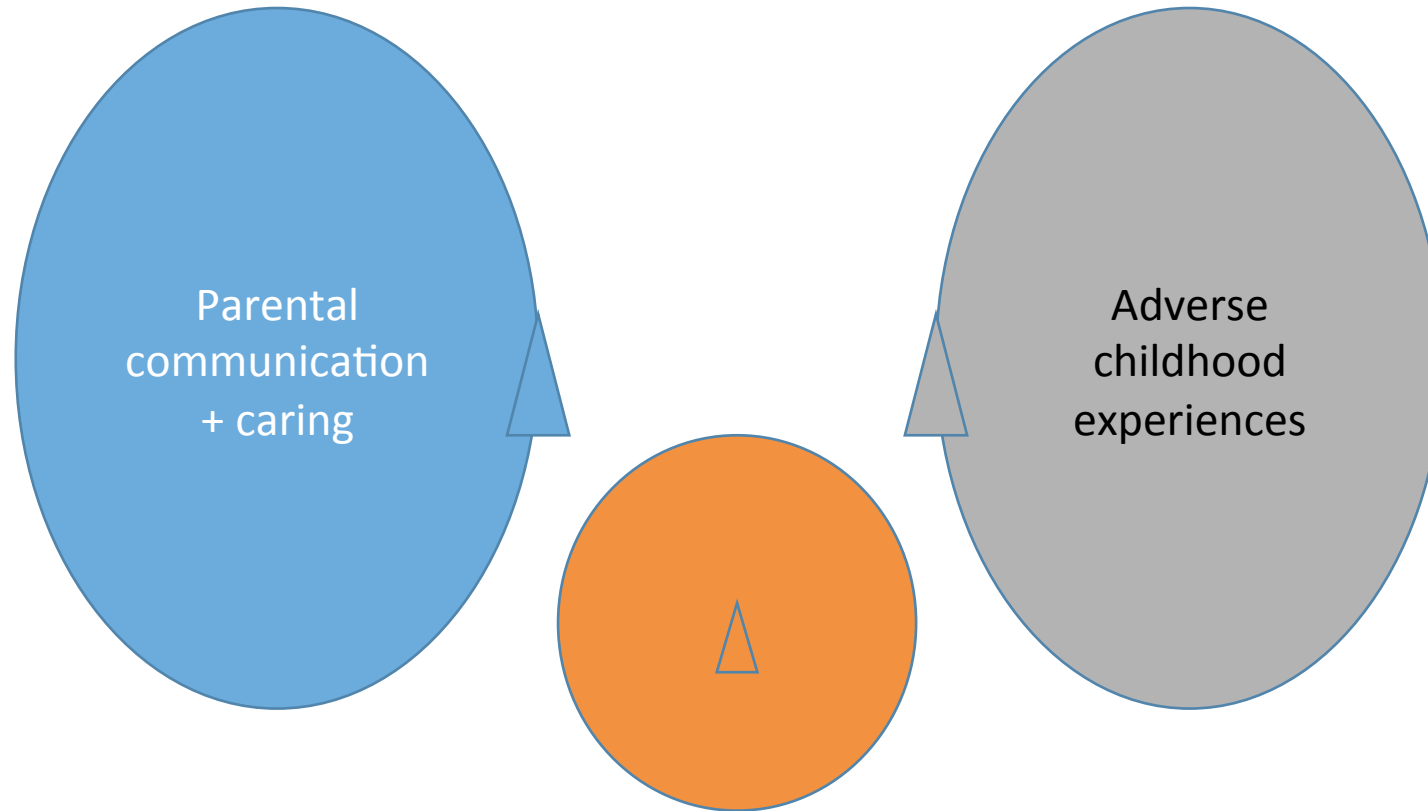
4 of 5 (80%) Northwest 8th, 9th, + 11th graders reported participating in community sports, clubs or programs, and/or religious activities at least once per week or more



Northwest students reporting participation in community activities were:

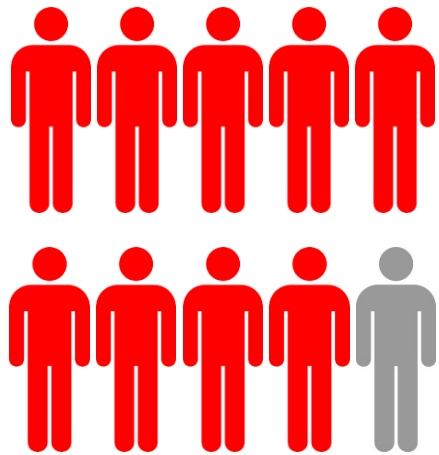
- **1.7x** less likely to report alcohol use
- **1.8x** less likely to report tobacco use
- **2.5x** less likely to report marijuana use
- **1.9x** less likely to report Rx drug misuse

Family



Parental Communication

9 out of 10 Northwest 5th, 8th, 9th, + 11th graders say they can talk to their mother and/or father all or most of the time about problems they are having



However, those 8th, 9th, + 11th graders who can't were:

- **1.9x** more likely to report alcohol use
- **1.9x** more likely to report tobacco use
- **2.8x** more likely to report marijuana use
- **2.9x** more likely to report Rx drug misuse

Parental Caring

- 9 out of 10 Northwest 5th, 8th, 9th, + 11th graders also say they feel their parents care about them quite a bit or very much
- But...that's not the same 9 out of 10 who can talk with their parents about problems—84% of Northwest students reported both parental communication and caring

Northwest 8th, 9th, + 11th who feel their parents care quite a bit or very much were:

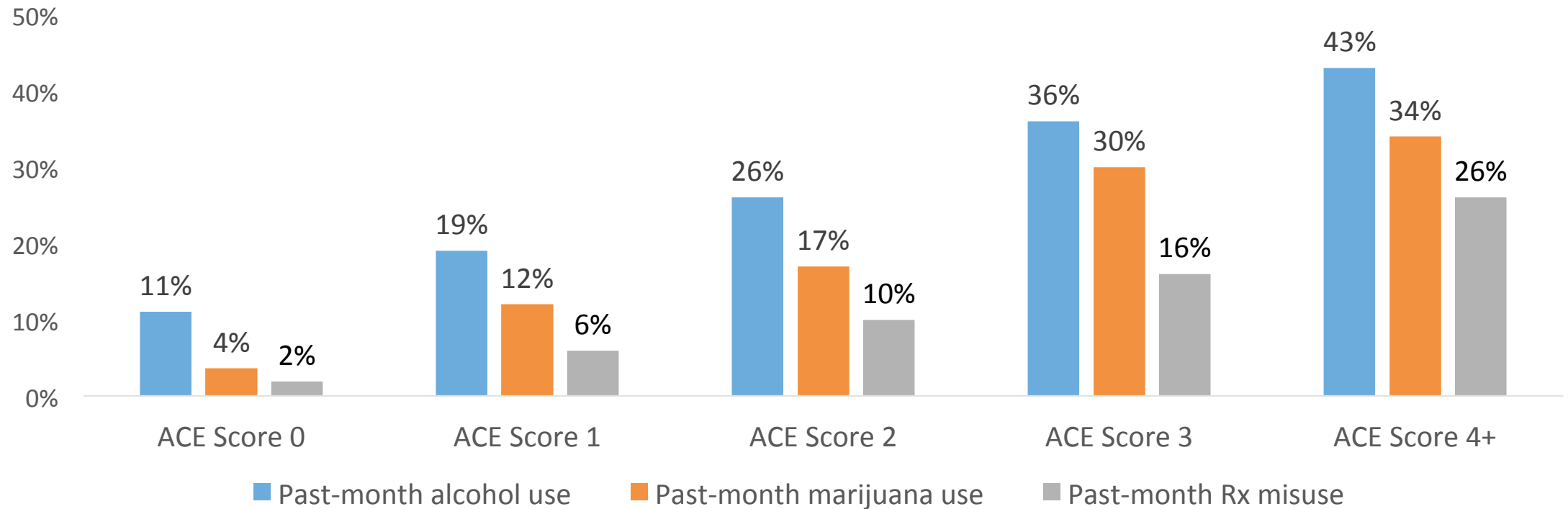
- **2.2x** less likely to report alcohol use
- **2.4x** less likely to report tobacco use
- **3.1x** less likely to report marijuana use
- **4.4x** less likely to report Rx drug misuse

Adverse Childhood Experiences (ACEs)

- Incarcerated parent/caregiver
- Living with someone who drinks too much alcohol
- Living with someone who uses illegal drugs or abuses prescription drugs
- Verbal abuse
- Physical abuse
- Household domestic abuse
- Sexual abuse

ACEs

Northwest 8th, 9th, + 11th Graders Reporting Past-Month Substance Use, by ACE Score (2016 MSS)



Contact

Melissa Adolfson

EpiMachine, LLC

mboeke@epimachine.com

