National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention Division of Adolescent and School Health



The First National Look at Health Risk Behaviors Among Sexual Minority High School Students, United States, 2015

Laura Kann, Ph.D. Chief, School-Based Surveillance Branch Division of Adolescent and School Health

Overview

- Background on the Youth Risk Behavior Surveillance System (YRBSS)
- Background on measurement of sexual orientation
- New report
- Results
- Uses of YRBSS sexual orientation data
- Plans for the future
- Access to data and documentation
- Questions

Background on the YRBSS

Purposes of the YRBSS

- Focus the nation on behaviors among youth causing the most important health problems
- Assess how risk behaviors change over time
- Provide comparable data

Priority Health-Risk Behaviors and Health Outcomes Monitored by YRBSS

- Behaviors that contribute to the leading causes of mortality and morbidity
 - Unintentional injuries and violence
 - Sexual behaviors
 - Alcohol and other drug use
 - Tobacco use
 - Unhealthy dietary behaviors
 - Inadequate physical activity
- Obesity
- Asthma

Current Components of the YRBSS

- National Youth Risk Behavior Survey (YRBS)
 - Representative of all public and private school students in grades 9-12 in 50 states and DC
- State, territorial, tribal, and large urban school district YRBS's
 - Representative of mostly public school students in grades 9-12 in the jurisdiction

Note: National data are not used to generate state and local estimates and state and local data are not combined to generate national estimates.

Two YRBS Questionnaires

Standard YRBS questionnaire

- Starting point for state and local questionnaires
- Typically contains 89 questions
- Modified by each site to meet their needs
- Can have as many as 99 questions
- Optional question list available for additional questions
- Only 4 sites used the standard questionnaire without changes in 2015

National YRBS questionnaire

The standard questionnaire plus 10 additional questions

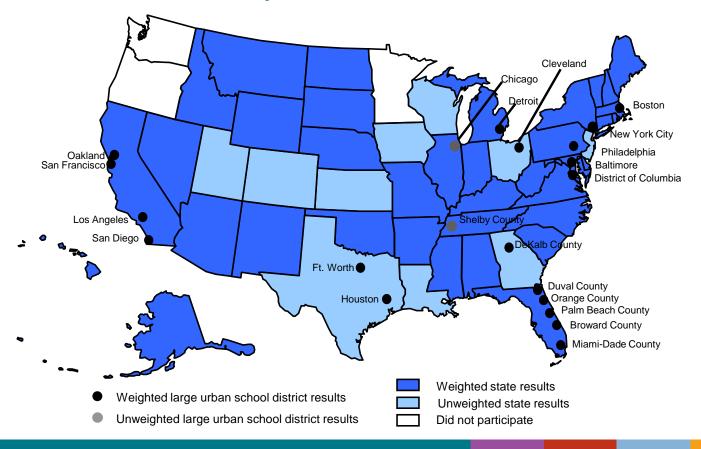
Characteristics of the National, State, and Local School-Based YRBS

- 9th 12th grade students
- Probability samples of schools and students
 - Schools selected with probability proportional to size
 - Classes selected randomly
 - All students in sampled classes included
- Anonymous
- Parental permission following local procedures
- Self-administered, computer-scannable questionnaire or answer sheet
- Completed in one class period (45 minutes)
- Conducted biennially, usually during the spring

State, Local, Territorial, and Tribal YRBS's, 1991-2015

	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015
# of states	26	40	39	38	41	37	43	44	44	47	47	47	47
# of cities	11	14	17	17	17	19	22	23	22	23	22	22	21
# of territories	2	2	5	5	4	7	5	4	5	4	4	5	4
# of tribal governments										2	2	2	1
Total # of sites	38	56	61	60	62	63	70	71	71	76	75	76	73
% of sites with weighted data	45%	59%	61%	72%	61%	60%	80%	90%	93%	87%	93%	92%	82%

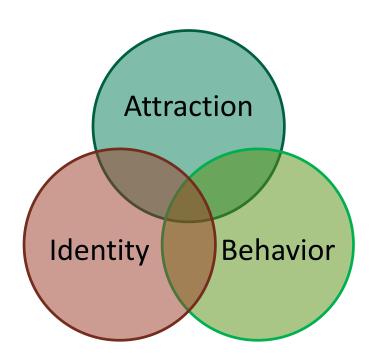
State and large urban school district Youth Risk Behavior Surveys – United States, 2015



Background on Measurement of Sexual Orientation

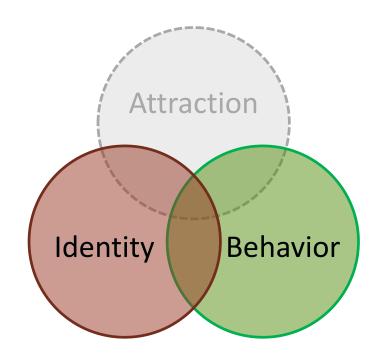
Measurement of Sexual Orientation

- Sex of sexual contacts
- Sexual identity
- Sexual attraction



Measurement of Sexual Orientation

- Sex of sexual contacts
- Sexual identity



Measurement of Sex of Sexual Contacts

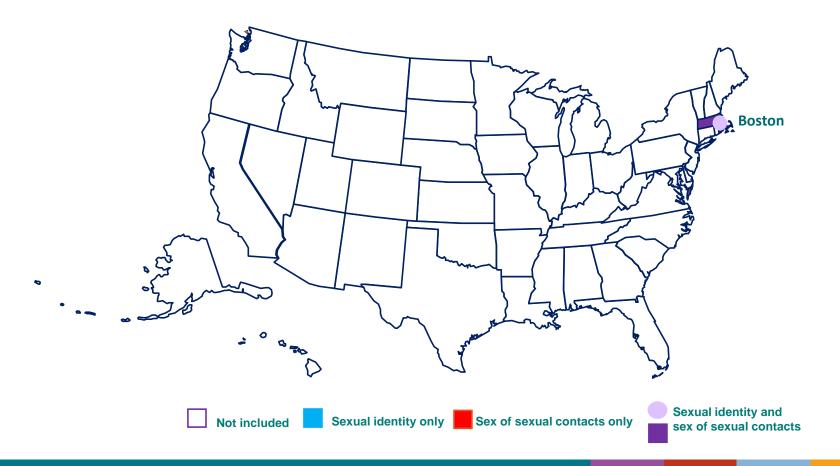
During your life, with whom have you had sexual contact?

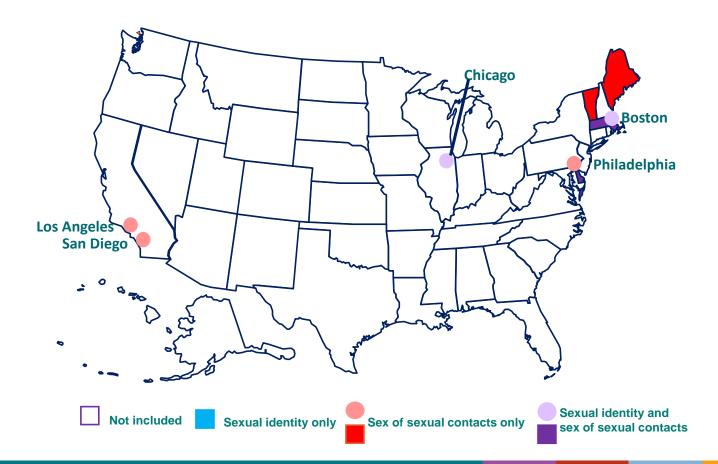
- A. I have never had sexual contact
- B. Females
- C. Males
- D. Females and males

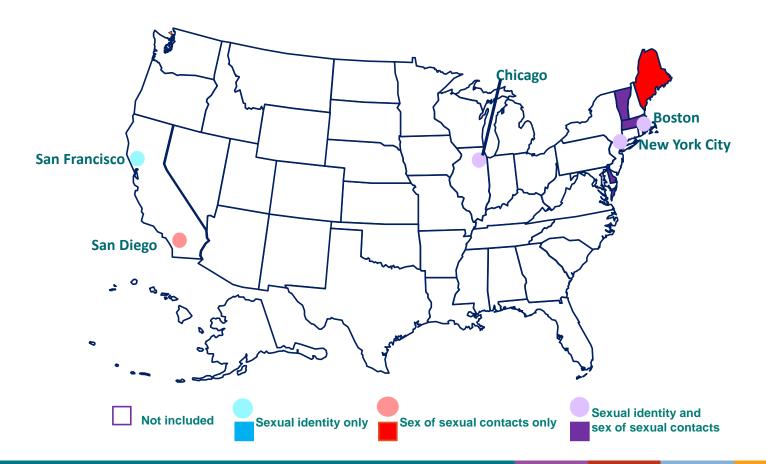
Measurement of Sexual Identity

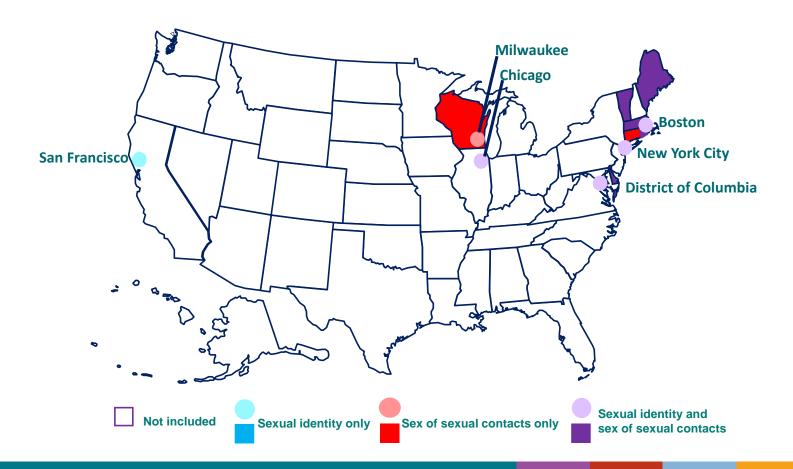
Which of the following best describes you?

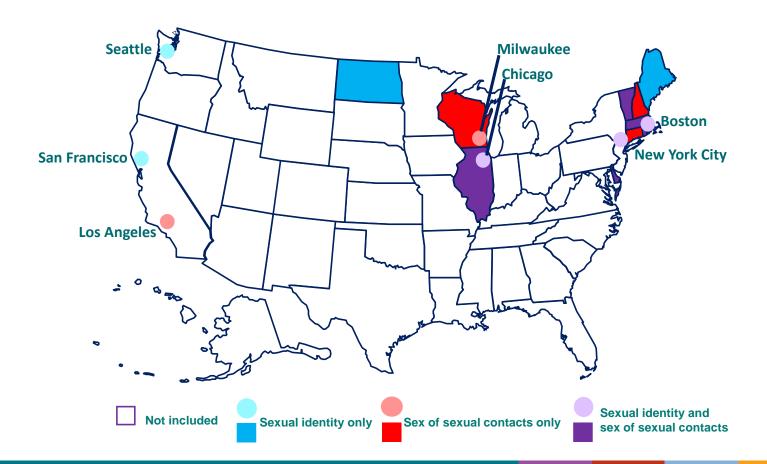
- A. Heterosexual (straight)
- B. Gay or lesbian
- C. Bisexual
- D. Not sure

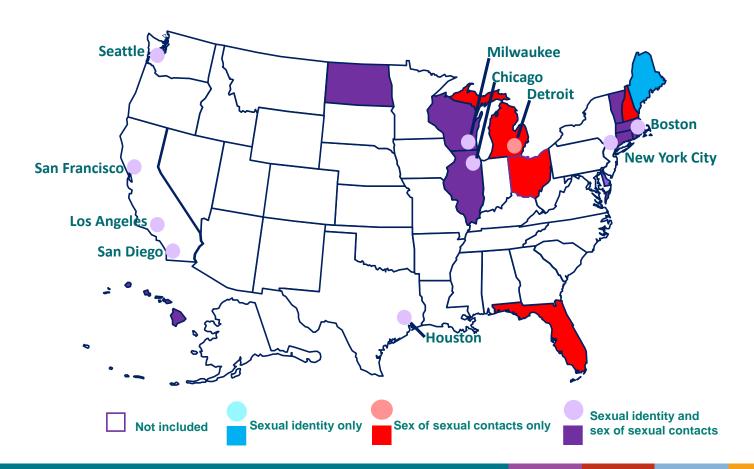


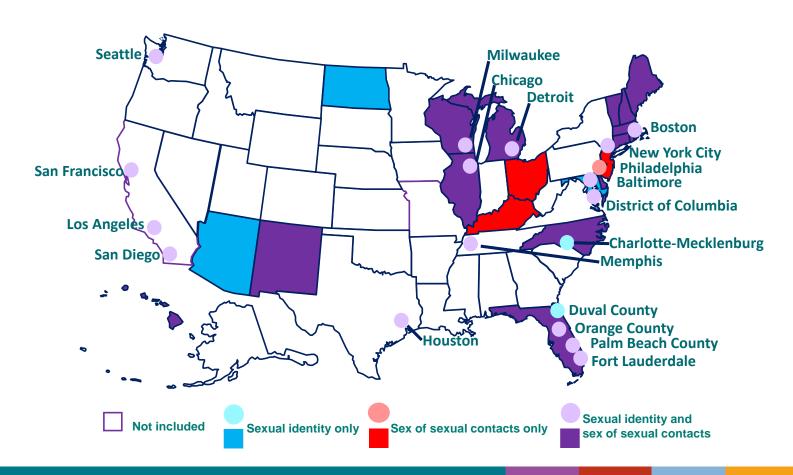


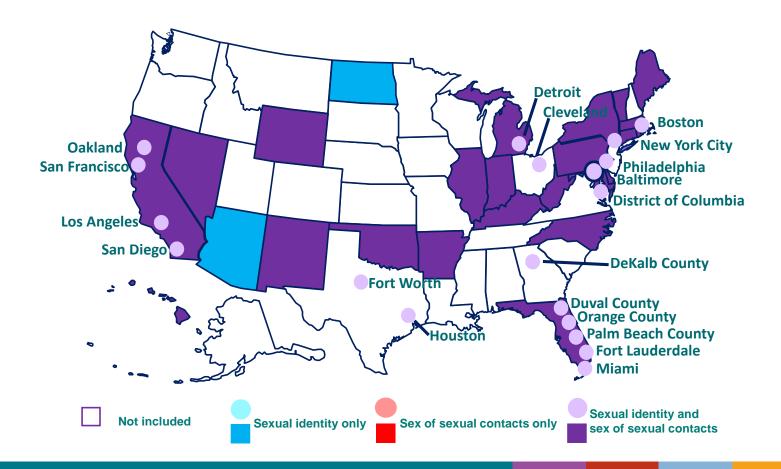


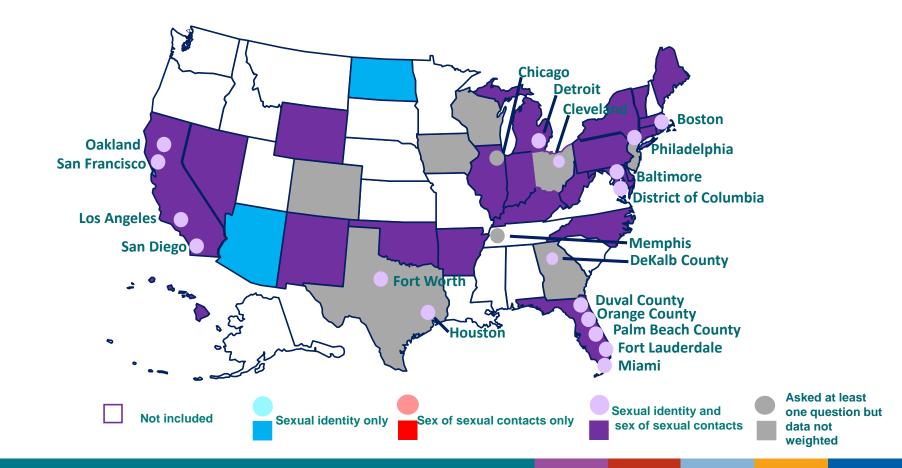


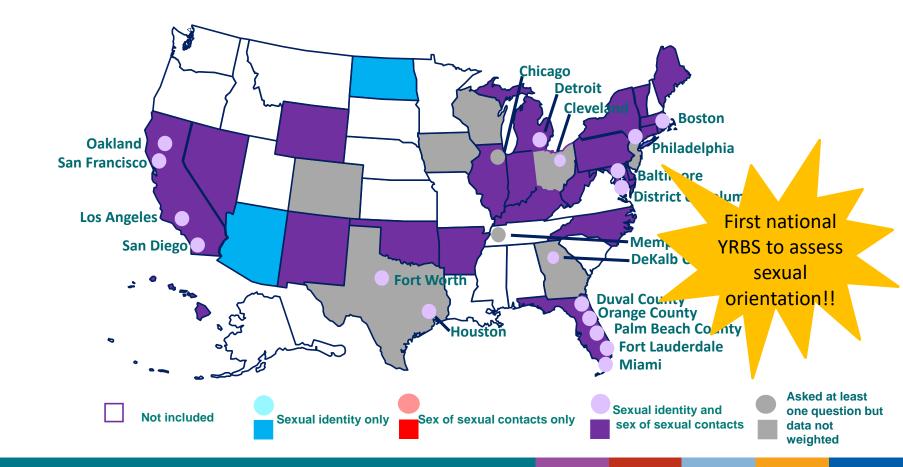














New Report

Purpose

- To use 2015 Youth Risk Behavior Survey (YRBS) data to describe
 - The number of sexual minority students nationwide and in states and large urban school districts

How the prevalence of 118 health risk behaviors vary by sexual identity

and sex of sexual contacts



Data Sets

2015

- national YRBS
- 25 state surveys
- 19 large urban school district surveys

2015 National YRBS Characteristics

- Sample size 15,624
- School response rate 69%
- Student response rate 86%
- Overall response rate (school X student) 60%

Data Analysis

- Weighting
 - Based on student sex, race/ethnicity, and grade in school
 - Adjusted for school and student non-response
 - Adjusted for oversampling of black and Hispanic students
- T-tests to detect significant (p<0.05) pairwise differences in health risk behaviors by subgroups

Results

Distribution of sexual identity and sex of sexual contact subgroups among high school students in the US, 2015

		Sexual Ide	entity		Sex of Sexual Contacts			
	Heterosexual	Gay or Lesbian	Bisexual	Not sure	Opposite Sex Only	Same Sex Only	Both Males and Females	Never Had Sexual Contact
Total	88.8%	2.0%	6.0%	3.2%	48.0%	1.7%	4.6%	45.7%
Male	93.1%	2.0%	2.4%	2.6%	53.3%	1.3%	1.9%	43.6%
Female	84.5%	2.0%	9.8%	3.7%	42.6%	2.1%	7.4%	47.9%

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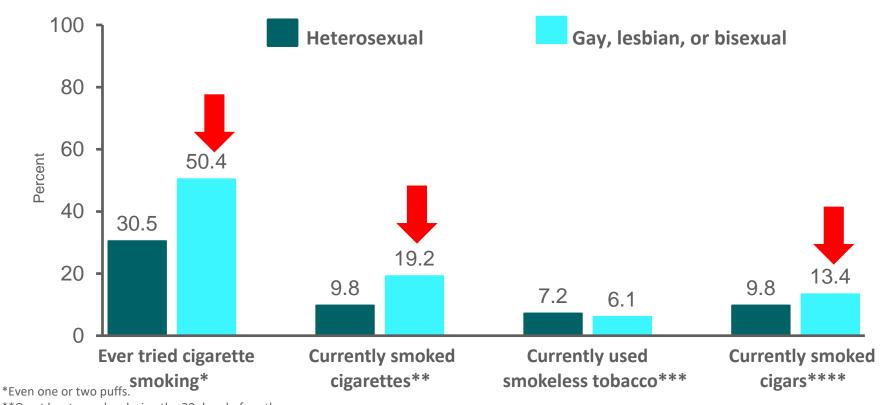
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1.3 million high school students!

Distribution of sex of sexual contact by sexual identity among high school students in the US, 2015

		Sexual Identity				
Sex of Sexual Contacts	Heterosexual	Gay, Lesbian, or Bisexual	Not Sure			
Opposite sex only	95.7%	2.8%	1.5%			
Same sex only or both sexes	25.0%	61.4%	13.6%			
No sexual contact	90.8%	5.8%	3.3%			

Percentage of high school students who used tobacco, by sexual identity, 2015

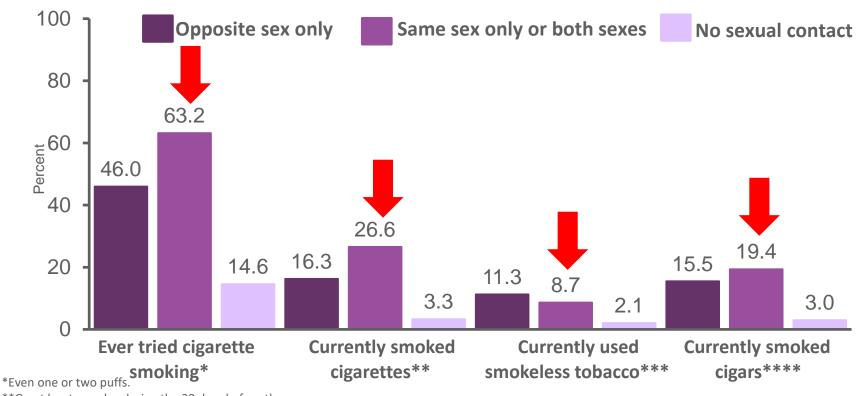


^{**}On at least one day during the 30 days before the survey.

^{***}Chewing tobacco, snuff, or dip on at least one day during the 30 days before the survey.

^{****}Cigars, cigarillos, or little cigars on at least one day during the 30 days before the survey.

Percentage of high school students who used tobacco, by sex of sexual contact, 2015

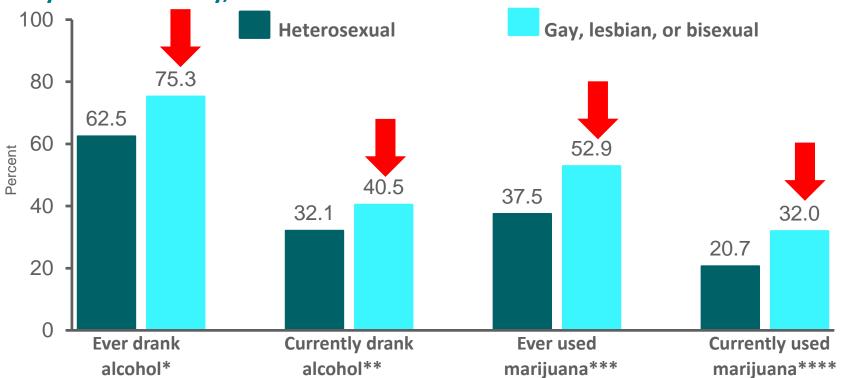


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Percentage of high school students who drank alcohol and used marijuana, by sexual identity, 2015



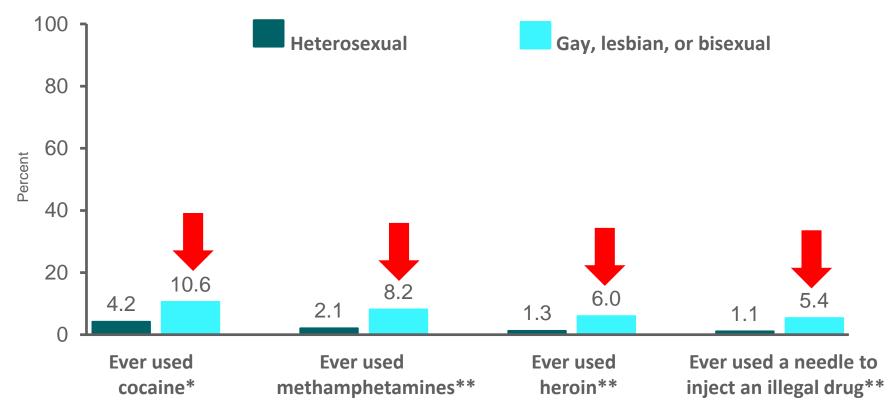
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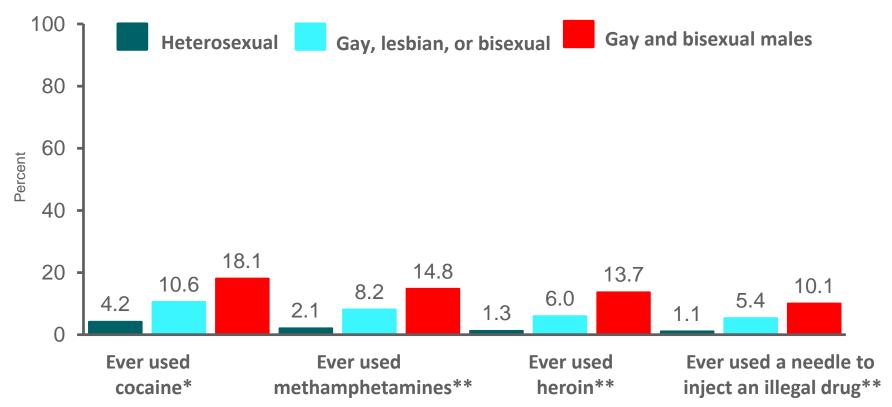
Percentage of high school students who used drugs, by sexual identity, 2015



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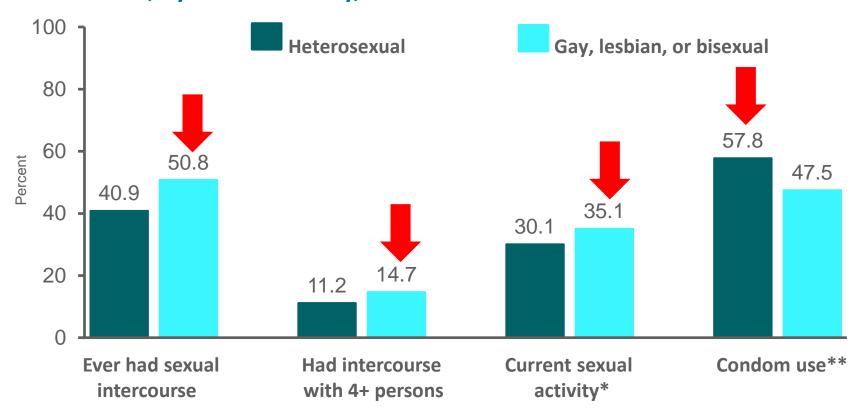
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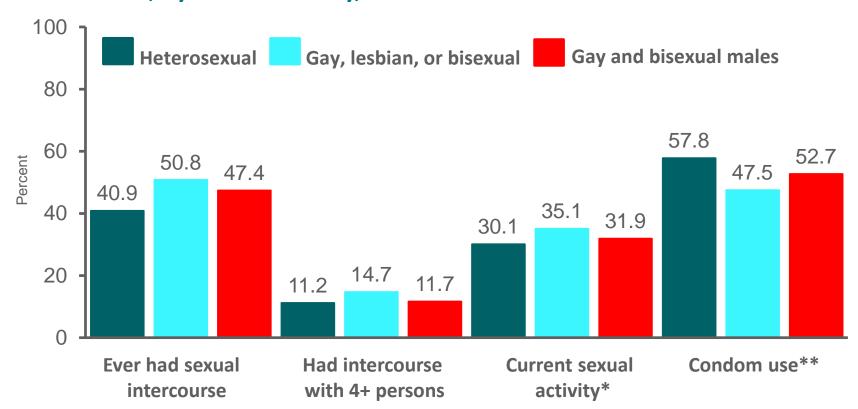
Percentage of high school students who reported HIV-related sexual behaviors, by sexual identity, 2015



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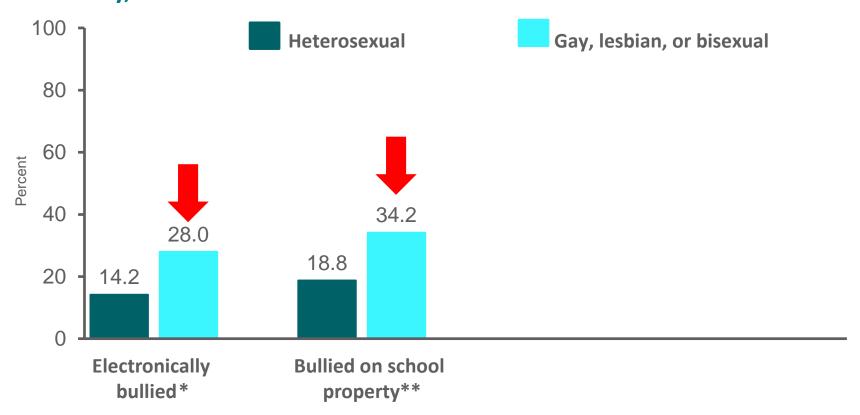
Percentage of high school students who reported violence-related behaviors, by sexual identity, 2015



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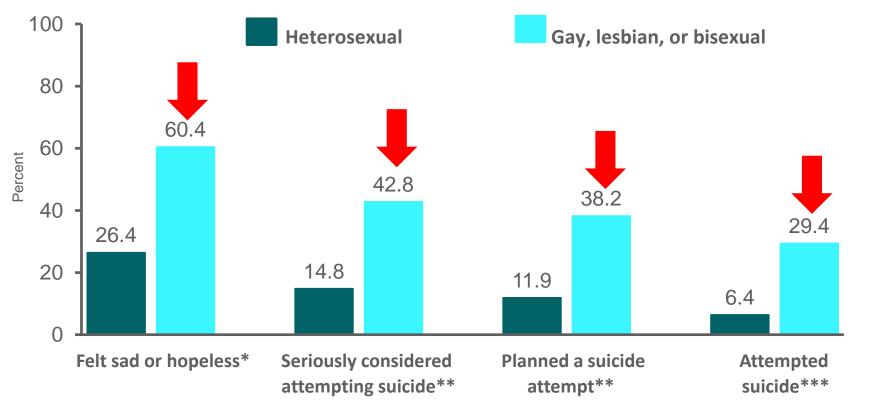
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Percentage of high school students who reported suicide-related behaviors, by sexual identity, 2015



^{*}Almost every day for ≥2 weeks in a row so that they stopped doing some usual activities during the 12 months before the survey.

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Limitations

- Results apply only to youth who attend school
 - 3% of 16-17 year olds not enrolled and not completed high school
 - Sexual minority youth might represent disproportionate percent of dropouts
- Extent of underreporting or overreporting cannot be determined
- Some students may not know their sexual identity, may be unwilling to disclose it or label themselves, or may not have understood the question
- No definition provided for sexual contact so it is likely students considered a range of sexual activities, possibly including involuntary activities

Conclusions

- Collecting high quality, national population-based data on the size of the sexual minority population in high schools is possible
- The prevalence of many health-risk behaviors among sexually minority high school students is disturbing

Uses of YRBSS Sexual Orientation Data

CDC Uses of YRBSS Sexual Orientation Data

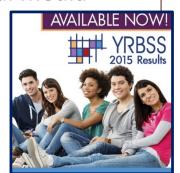
- MMWR reports
- Scientific journal articles
- Traditional and social media



Q SEARCH

Levels of Violence

SECTIONS



The New Hork Times

Gay and Lesbian High School Students Report 'Heartbreaking'



Morbidity and Mortality Weekly Report

HIV-Related Risk Behaviors Among Male High School Students Who Had Sexual Contact with

Sexual Identity, Sex of Sexual Contacts, and **Health-Related Behaviors Among Students** In Grades 9-12 — United States and Selected Sites, 2015



Males - 17 Large Urban School Districts, United States. 2009-2013



Journal of Adolescent Health

SURVEILLANCE

Volume 55, Issue 3, September 2014, Pages 432-438

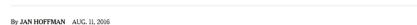
CDC A-Z INDEX V





Original article

School Violence and Bullying Among Sexual Minority High School Students, 2009-2011











Partner Uses of YRBSS Sexual Orientation Data

- Describe levels of risk
- Support development of policies to support sexual minority youth
- Develop interventions and programs to address risk behaviors
- Justify need for additional resources
- Create social media campaigns
- Modify school curricula and teacher training programs
- Document need for social change

Plans For the Future

Continue to Measure Sexual Orientation

- Trends over time
- Race/ethnicity by sex analyses
- Increased number of sites including one or both questions on their YRBS's

Explore Measurement of Transgender Status

- CDC working with advocates and researchers for several cycles to develop a question
- Proposed question for sites to pilot in 2017
 - Review of literature
 - Consideration of questions asked previously on YRBS's
 - Consultation with advocates and partners
- Credible data a prevalence estimate of approximately 0.5% to <1%
 - Average YRBS sample 15 to <30 transgender students
 - National YRBS sample 75 to <150 transgender students
- Unclear if the YRBS is the right mechanism to collect health behavior data on transgender youth.

Transgender Question Recommended for 2017 YRBS Questionnaires

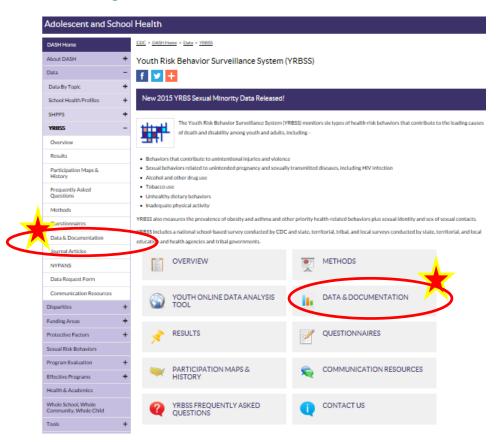
Some people describe themselves as transgender when their sex at birth does not match the way they think or feel about their gender. Are you transgender?

- A. No, I am not transgender
- B. Yes, I am transgender
- C. I am not sure if I am transgender
- D. I do not know what this question is asking

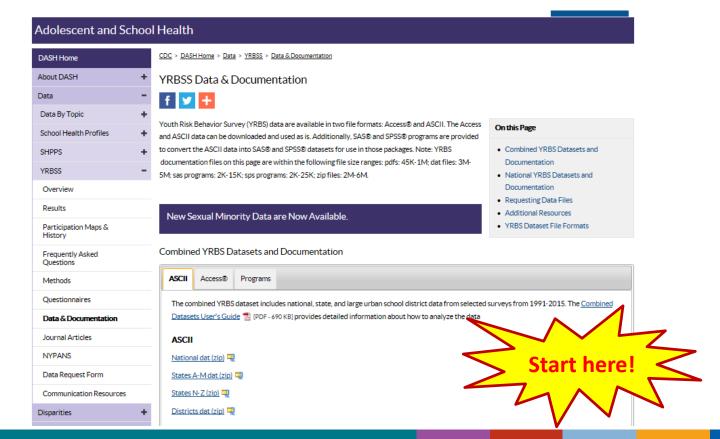
Access to Data and Documentation

How to Get YRBS Data for Analysis

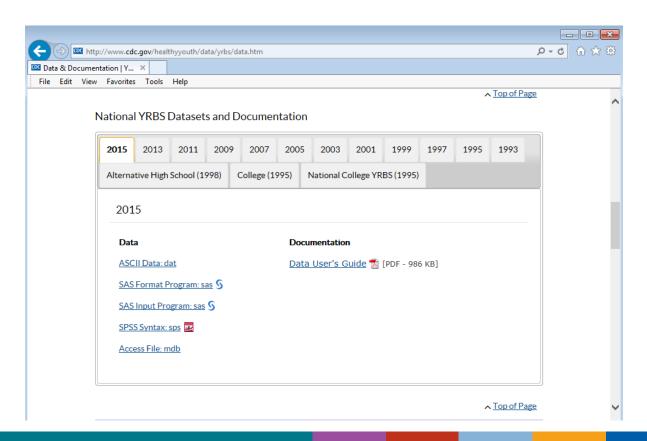
www.cdc.gov/yrbs



State and Local and National YRBS Data



National YRBS Data



Requesting Additional Data Sets

- Complete a YRBSS Data Request Form
- If we have permission, we will share the data set.
- If we do not have permission, you will need an email granting permission from the site
- DASH will provide contact information so you can reach out to sites
- Process can take several weeks

Requesting Data Files

Learn more about Data Availability and Requesting YRBSS Data Files.

National data files are downloadable from this website. To request state, district, territory, or tribal government data files, please use the <u>YRBSS Data Request Form</u>.

Additional Resources

Additional Resources

- Software for Analysis of YRBS Data [PDF 389 KB]
 A review of software packages suitable for analyzing
 YRBS data and guidance on how to use them
- Combining YRBS Data Across Years and Sites

5 [PDF - 226 KB]

Guidance and best practices for combining data from multiple Youth Risk Behavior Surveys (YRBSs)

• Conducting Trend Analyses of YRBS Data

5 [PDF - 235 KB]

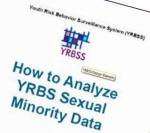
Guidance and methods for conducting trend analyses of Youth Risk Behavior Survey (YRBS)

- Interpretation of YRBS Trend Data [PDF 228 KB]
 Guidance on interpreting YRBS trend data analyses
- How to Analyze YRBS Sexual Minority Data

T [PDF - 143 KB]

auestions.

Guidance and best practices for analyzing data from the sexual identity and sex of sexual contacts



For More Information

- www.cdc.gov/yrbs
 - MMWR Surveillance Summary Report
 - Data sets and technical documentation
 - Questionnaires
 - Press and social media materials
- Laura Kann <u>LKK1@CDC.GOV</u> or 404 457 3983

Thank you!

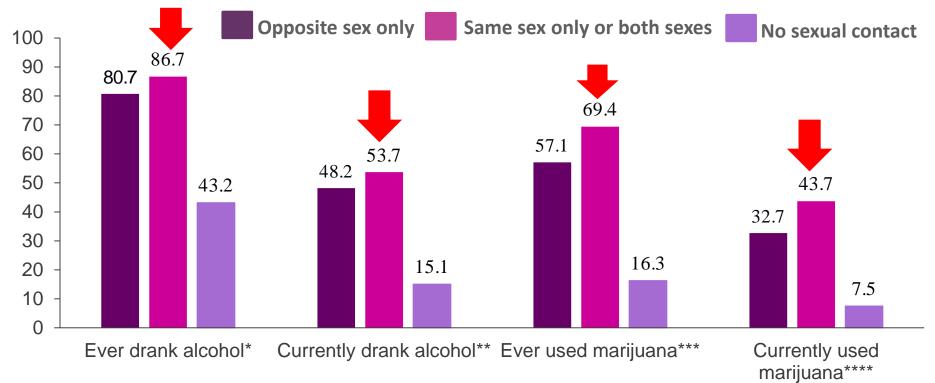
For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.





Percentage of high school students who drank alcohol and used marijuana, by sex of sexual contact, 2015



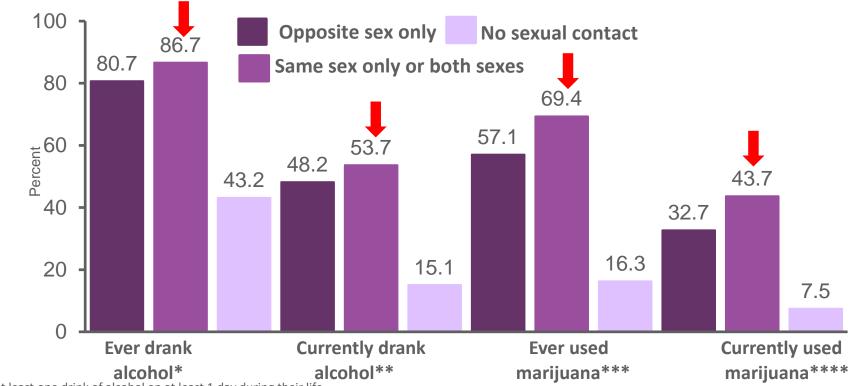
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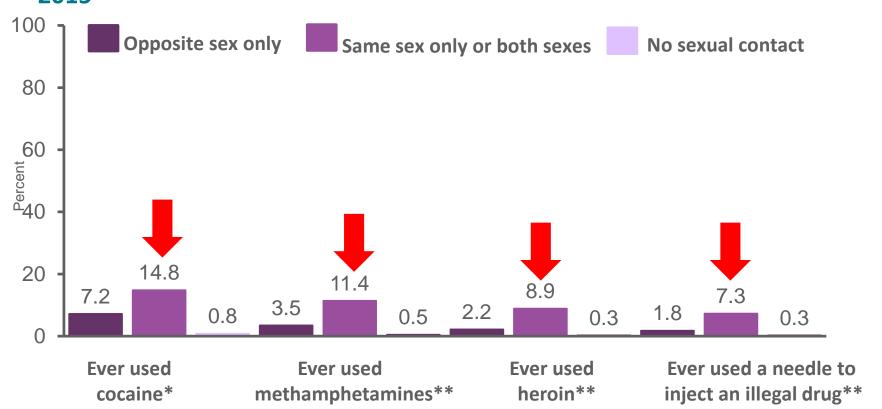
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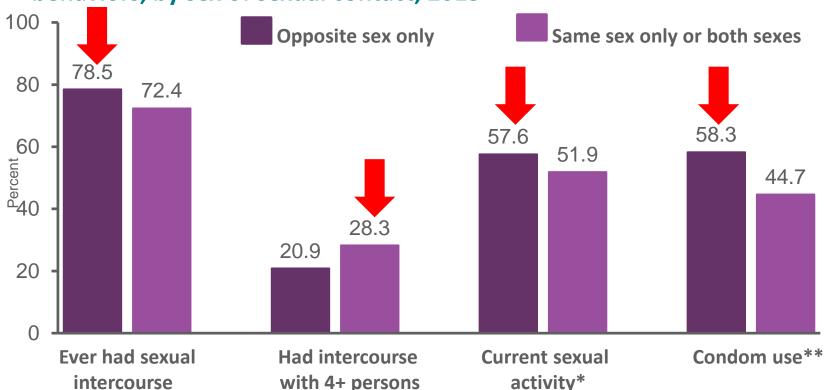
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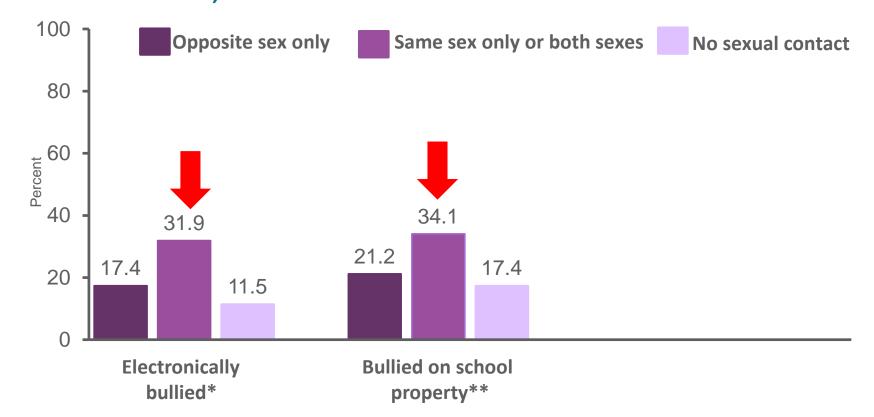
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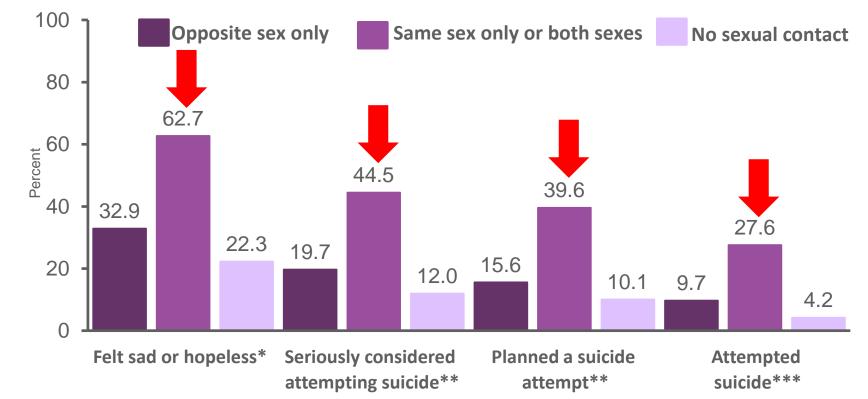
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