

2016 Bias Analysis

Sponsoring Washington State Agencies: Department of Social and Health Services' Division of Behavioral Health and Recovery, Department of Health, Office of Superintendent of Public Instruction, Liquor and Cannabis Board

> Prepared by: Looking Glass Analytics, Inc.

> > May 2018

Washington State Healthy Youth Survey 2016

Bias Analysis

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The 2016 Bias Analysis was a collaborative effort of the Washington State Department of Health, the Division of Behavioral Health and Recovery, and Looking Glass Analytics, Inc. Contributors include Rebecca Grady, Liz Coker, Jennifer Sabel, Anar Shah, and Susan Richardson.

The 2016 Bias Analysis was reviewed by members of the Healthy Youth Survey Planning Committee including: Cathy Wasserman, Riley Peters, Kevin Beck at the Department of Health; Krissy Johnson and Mandy Paradise at the Office of Superintendent of Public Instruction; Jennine Knight at the Department of Social and Health Services; Mary Segawa at the Liquor and Cannabis Board; and Joe Kabel at Looking Glass Analytics, Inc.

Background

The Healthy Youth Survey (HYS) is Washington State's biennial survey of public school students in grades 6, 8, 10 and 12. Since 2002, HYS has been administered in the fall of even numbered years. Schools are randomly selected into a state sample, but all schools with grades 6, 8, 10 or 12 can volunteer to participate, except for those operated in correctional facilities. Because a random sample cannot guarantee a representative sample and because not all schools and students invited to participate in the state sample take the survey, we need to check if the participants do in fact represent the larger group.

This bias analysis aims to find out how well the students who participated in the 2016 Healthy Youth Survey represent Washington State public school students as a whole, in both the state sample and the census results. For 2016, we also looked at differences among race/ethnic groups to see if the results for the state sample schools and census schools were similar.

Methods

To assess possible bias related to differences among respondents at the school level, we compared the characteristics of:

- Participating and non-participating schools
- Schools that did and did not administer the optional questions.

To assess possible bias at the individual student level, we compared the characteristics of:

- Respondents who finished the survey and those who did not
- Respondents who answered the optional questions and those who did not

We assessed school-level and student-level characteristics for the state sample schools alone and for all participating schools (census). We also looked at the race groups in sample schools and census schools and compared them to OSPI enrollment. Then we looked at characteristics of state sample respondents compared to characteristics of census respondents to assess bias if using the responses from the census instead of the state sample.

Analyses were done using t-tests, Fisher's exact test, Chi-square tests, and logistic regression. Each section of this report includes its own detailed method section. Any finding described as being different, higher, lower, more likely or less likely is significant and has a p-value less an 0.05.

Conclusions

These findings are limited, generalizing only to Washington State as a whole. They do not apply to smaller geographic areas such as counties or school districts. The smaller sample sizes for smaller geographic areas may be subject to different bias due to nonparticipating schools and students.

Findings on Participation

Participation in the 2016 HYS was extremely high among schools in the state sample and the census (above 82%). Generally, there were very few differences among state sampled schools and non-participants. However, some differences between census schools and non-participating schools were identified.

• Schools in the state sample may underrepresent students attending small public schools.

• Schools in the census may underrepresent small public schools, alternative schools, schools with lower percent minority enrollment, and secondary schools with higher free/reduced lunch rates and lower on-time graduation rates. They also may underrepresent schools in non-urban areas.

Findings on Completion

Not all students finished the 2016 HYS. In the state sample, results from questions asked at the end of the survey may underrepresent students:

- With lower grades (grades 6, 8 and 10)
- With low socio-economic status (mother didn't graduate high school, grade 10; haven't seen a dentist, grade 8)
- Who smoke cigarettes (grades 6 and 12)
- Who live in non-English speaking homes (grades 6, 8 and 10)
- Who are Hispanic (all grades) or Black/African American (grade 8)

Caution should be exercised when interpreting the results from these questions for these groups of students.

For the census, questions asked at the end of the survey may underrepresent students:

- With lower grades (grades 6 and 10)
- With low socio-economic status (haven't seen a dentist grade 8)
- Who currently smoke cigarettes (grades 6 and 10), currently drink alcohol (grade 6), or binge drink (grade 6)
- Who live in non-English speaking homes (grades 6, 8, 10, and 12)
- Who are Hispanic (grades 6 and 10), who are Asian (grade 12), who are Black/African American (grades 6 and 12), or Pacific Islander (grade 12)

Summary of Differences between Non-Completers and Completers in the State Sample and in Census schools

NC Non-Completers w/higher rate	C Con	npleters w	/higher rate	2	No differe	ence -	Not me	asured					
Student Responses		State	Sample		Census								
Student Responses	Grade 6	Grade 8	Grade 10	Grade 12	Grade 6	Grade 8	Grade 10	Grade 12					
Low grades	NC	NC	NC		NC		NC						
Feeling unsafe at school													
Mother didn't graduate high school	-		NC		-								
Living situation due to finances	-				-								
Food insecurity	-				-								
No dental visit in last year	-	NC			-		NC						
Receive free/reduced price lunch	-				-								
Current cigarette smoking					NC		NC						
Current marijuana use													
Binge drinking					NC								
Current alcohol drinking					NC								
Non-English spoken at home	NC	NC	NC		NC	NC	NC	NC					
White	С	C	С	С	С	С	C	C					
Hispanic	NC	NC	NC	NC	NC		NC	С					
American Indian/Alaska Native													
Asian					C			NC					
Black/African American		NC			NC			NC					
Pacific Islander								NC					

Significant differences are based on 95% confidence intervals; highlighted squares are statistically significant at the p <0.05 level

Findings on Optional Questions

Questions about sexual behavior, orientation and abuse were optional in 2016. Over two-thirds of schools administered the optional questions, which was much higher than in previous administrations (around 40%). Schools that administered the optional questions were similar to schools that did not. Schools that administered the optional questions in the state sample may underrepresent schools with higher enrollment. Schools in the census may underrepresent schools with lower percent minority enrollment and schools in sub-urban areas.

Generally, student characteristics and responses in schools that administered the optional questions and answered at least one optional question* were similar to characteristics and responses of students in schools that did not administer them.

Summary of Differences Between Non-Optional Takers and Optional Takers in the State Sample and in Census schools

Non Non-Optional w/higher rate	Opt 0	Optional w/	higher rate	N	o difference					
Student Response		State Samp	le	Census						
Student Response	Grade 8	Grade 10	Grade 12	Grade 8	Grade 10	Grade 12				
Low grades		Non		Non	Non	Non				
Feeling unsafe at school					Non					
Mother didn't graduate high school		Non		Non						
Living situation due to finances										
Food insecurity										
No dental visit in last year				Non	Non					
Receive free/reduced price lunch		Non		Non						
Current cigarette smoking										
Current marijuana use										
Binge drinking										
Current alcohol drinking										
Non-English spoken at home		Non	Non	Non						
White		Opt	Opt	Opt	Opt	Opt				
Hispanic		Non	Non	Non	Non					
American Indian/Alaska Native				Opt	Non					
Asian				Non						
Black/African American			Non			Non				
Pacific Islander										

Significant differences are based on 95% confidence intervals; highlighted squares are statistically significant at the p <0.05 level

* Comparisons do not include students from schools that administered the optional questions but did not answer any of the optional questions.

Racial/Ethnic Comparability Findings Between the State Sample and The Census

For the 2016 Healthy Youth Survey, students and schools reported different percentages of race/ethnicity groups, but there were minimal differences in how students reported race/ethnicity in the state sample schools compared to the census. The census results appear to be as representative of the state overall and of race/ethnicity groups as the state sample schools, and both could be used for statewide analysis

While mostly similar, some differences were identified between the state sample and census results among racial/ethnic groups:

- White students in the census were more likely to report living in non-English speaking homes (grades 8, 10 and 12) and were more likely to describe themselves as gay, lesbian, bisexual or not sure of their sexual orientation (grade 8).
- Hispanic 12th graders in the census were more likely to describe themselves as gay, lesbian, bisexual or not sure of their sexual orientation (grade 12). Hispanic students in the state sample were more likely to report carrying a weapon at school (grade 6) and to get lower grades in school (grade 8).
- American Indian/Alaska Native 6th graders in the census were more likely to report living in a non-English speaking home, and 10th graders in the state sample were more likely to report getting lower grades in school or ever had sex in their lifetime.
- Asian students in the census were more likely to report living in a non-English speaking home (grades 10 and 12). Asian students in the state sample were more likely to report getting lower grades in school (grades 8 and 12), to feel unsafe at school (grades 10 and 12), to smoke cigarettes (grade 12), and to have ever had sex in their lifetime (grade 12).
- Black/African American 12th graders in the state sample were more likely to report carrying a weapon at school.
- Pacific Islander students in the census were more likely to report having a mother that didn't graduate from high school (grade 10) and to be bullied at school (grade 8).
- Students who report they were "Other" race in the census were more likely to live in non-English speaking homes (grade 6). Other race students in the state sample were more likely to report having a mother who didn't graduate high school (grade 8), to smoke cigarettes (grade 10), and to binge drink (grade 10).
- 8th grade students who selected more than on race in the state sample were more likely to report living in a non-English speaking home, to have a mother who didn't graduate from high school, and to feel unsafe at school. 10th grade students in the state sample were more likely to report cigarette smoking and binge drinking.

Comparing percentages of students in racial/ethnic groups in the census and state sample to enrollment percentages of students reported by OSPI reveals only very small differences (0.2% at most in any race/ethnic group). We do see some differences in student reported results in certain race/grade subgroups when comparing the census to the state sample, with those differences limited mostly to living in a non-English speaking home and getting lower grades in school. The census and state sample results appear to be comparable, with the possible exceptions of those two measures. Caution may need to be exercised when looking at Asian 12th graders, as they have the greatest number of differences.

S State Sample w/higher	rat	te		С	Ce	ensi	us w	//hi	gher	rat	e			No	diffe	erer	nce			-	1	lot	mea	asur	ed												
				G	Grad	le 6							Gi	ade	e 8							Gr	ade	10							Gr	ade	12				
Student Response		White	Hispanic	Ai/AN	Asian	Black	Island	Other	Multi	All	White	Hispanic	Ai/AN	Asian	Black	Island	Other	Multi	AII	White	Hispanic	Ai/AN	Asian	Black	Island	Other	Multi	AII	White	Hispanic	Ai/AN	Asian	Black	Island	Other	Multi	Total
Non-English spoken at home				С				С			С							S		С			С						С			С					8
Mother didn't graduate high school	-	-	-	-	-	-	-	-	-								S	S							С												3
Living situation due to finances	-	-	-	-	-	-	-	-	-																												0
Food insecurity	-	-	-	-	-	-	-	-	-																												0
No dental visit in last year	-	-	-	-	-	-	-	-	-																												0
Receive free/reduced price lunch	-	-	-	-	-	-	-	-	-																												0
Low grades												S		S								S										S					4
Feeling unsafe at school																		S					S									S					3
Bullied at school																С																					1
Carried weapon at school			S																														S				2
Current cigarette smoking																											S					S					2
Current marijuana use																										S											1
Current alcohol drinking	С																									S											2
Binge drinking	С																										S										2
Ever had sex	-	-	-	-	-	-	-	-	-													S										S					2
Gay, lesbian, bisexual, not sure	-	-	-	-	-	-	-	-	-		С																			С							2
Total Differences	2	0	1	1	0	0	0	1	0	0	2	1	0	1	0	1	1	3	0	1	0	2	2	0	1	2	2	0	1	1	0	5	1	0	0	0	32

Summary of Differences by Racial/Ethnic Groups when Comparing State Sample Results to Census Results

Significant differences are based on 95% confidence intervals; highlighted squares are statistically significant at the p < 0.05 level

This bias analysis was conducted to determine if the 2016 Healthy Youth Survey results can be generalized to Washington State Public School students.

The 2016 administration of the Healthy Youth Survey (2016 HYS) represents a collaborative effort among the Department of Health; the Office of Superintendent of Public Instruction; the Department of Social and Health Services' Division of Behavioral Health and Recovery; the Liquor and Cannabis Board, and the contractor, Looking Glass Analytics, Inc. Representatives of these agencies served as members of the Healthy Youth Survey Planning Committee, which guided every aspect of the survey development and implementation.

Since 2002, it has been administered in the fall of even numbered years. All Washington State public schools with grades 6, 8, 10 or 12 that were not based in a correctional institution and were able to administer the survey in a classroom setting were eligible to participate in the HYS (e.g., schools where students don't attend classes like online schools or home school support programs were not included). A simple random sample of schools is selected into a state sample. Schools that were not selected for the state sample are termed "not drawn for the state sample." Schools that participate but were not selected into the state sample are termed "volunteer" schools. The combination of the state sampled schools and the volunteer non-sampled schools that participated are termed the "census".

The Washington State Department of Health mailed a letter in January 2016 inviting all eligible schools to participate in the 2016 HYS. Schools registered for the survey online. Sponsoring agencies called state sample schools that did not register to solicit participation. Schools not drawn for the state sample were not called.

For the state sample, the Washington State Department of Health drew three random samples: schools with grade 6, schools with grade 8, and schools with grades 10, 12 or both. Within selected schools, all of the students in the target grades were invited to participate. This method assured that each eligible student in Washington State had an equal chance of being asked to participate in the state sample. These selection methods maximize the likelihood that students taking the survey as part of the state sample represent students in the specified grades as a whole. However, because a random sample cannot guarantee a representative sample and because not all schools and students invited to participate in the state sample took the survey, we need to check if the participants do in fact represent the larger group.

The 2016 HYS included three survey forms. Schools with students in grade 6 received Form C; schools with students in grades 8, 10 and 12 received both Form A and Form B. Forms A were interleaved or collated with Form B, such that half of students would receive a Form A survey and half would receive Form B survey. Schools that did not want to ask the optional questions on survey forms A and B, could remove them by tearing off the survey page with those questions. The optional questions asked about sexual orientation, behavior and abuse.

Schools, parents and students could each choose not to participate in the survey. School participation in the survey is voluntary. Schools not wanting to ask students about sexual orientation, behavior or abuse registered to receive survey forms without those questions. Parents could opt their students out of the survey by notifying the school. Students could also opt out of the survey before it was administered and they could skip any question they did not want to answer. Apart from those optional exclusions, some students did not finish the survey in the allotted time.

The factors outlined—non-participation, schools opting out of optional questions, and students not finishing the survey—can introduce bias into the survey such that the findings would not represent public school students in grades 6, 8, 10 and 12 in Washington. Bias occurs if findings are affected by differences between students who answered survey questions and those who did not. This bias analysis aims to assess bias by describing differences between participating and non-participating schools and students that might affect overall findings, and testing whether any such differences would impact results.

Sources of Bias

Potential sources of bias include:

- School participation bias: School participation bias could occur if findings were affected by differences between students in schools that participated and students in schools that chose not to participate in the HYS.
- **Optional question administration bias**: Some schools opted to remove the optional survey questions about sexual orientation, behaviors and abuse. Bias for the optional questions could occur if findings were affected by differences between students who answered the optional questions and those who did not. The two most likely sources of differences are:
 - Differences among students in schools that administered the optional questions, and students in schools that removed them.
 - Differences among students who finished the survey and students who did not, since the optional questions are at the end of the survey.
- **Survey completion bias**: Some students did not complete the survey in the allotted amount of time. Bias could occur for questions toward the end of the survey if students who did not complete the survey would have given different answers than students who completed the survey.

In addition to bias, we'd like to know about the differences between the results students in the state sample and results from students in census schools to determine if the census results can be used instead of the state sample results. Using the census provides more power to look at measures with low rates (i.e., heroin use) and small subpopulations (i.e., Pacific Islanders).

Bias must be assessed indirectly. We cannot simply look to see if participating and non-participating schools and students gave different survey responses, because we do not have responses from non-participants. Instead, we first assessed student characteristics that might affect how respondents answer questions by comparing characteristics of schools that participated in all or parts of the survey and schools that did not. For this comparison, we assessed school-level information provided by the Office of Superintendent of Public Instruction.

To assess possible bias related to differences among respondents at the **school level**, we compared the characteristics of:

- Participating and non-participating schools.
- Schools that did and did not administer the optional questions. Schools that did not participate in HYS were categorized as not administering optional questions.

To assess possible bias at the **individual student level**, we compared the characteristics of:

- Respondents who finished the survey and those who did not.
- Respondents who answered the optional questions and those who did not.

To compare characteristics among race/ethnic groups in the census to the state sample:

- Percentage of race/ethnic groups reported by students in HYS to those reported by schools.
- Respondents in the census and those in the state sample.

Table 1 summarizes the analysis conducted to assess potential bias at the school level and individual student level.

Source of	Description	Base	Level of	Analysis
potential bias		population*	School	Student
School	Participating schools compared to non-	State sample	Х	
participation	participating schools	Census	Х	
School-level	Schools administering questions compared	State sample	Х	
optional question administration	to schools not administering questions	Census	Х	
Student-level	Respondents who finish the survey	State sample		Х
survey	compared to respondents who did not	Census		Х
completion	finish the survey			
Student-level	Respondents who answered the questions	State sample		Х
optional behavior question completion	compared to respondents who did not. Students from schools that administered optional questions but did not answer an optional question were excluded from the analysis	Census		x
Student-level	Respondents characteristics in specific	State sample		Х
race/ethnicity	race/ethnic groups in the census are compared to the state sample	Census		Х

Table 1: Sources of	potential bias and the	level of analysis a	t which they	were assessed
	potential blas and the	icver of analysis a		

* Base population for the comparison:

[&]quot;State sample" means schools that were randomly selected for the representative state sample.

[&]quot;Census" means all schools that participated in the 2016 HYS (state sample schools plus non-sampled schools).

We conducted further analyses to assess the degree to which non-completion bias may have affected survey results. First, we looked at the extent of survey non-completion for each grade. Then, by simulating the effect of non-completion bias on questions found early in the survey, we estimated how much questions at the end of the survey might be affected.

Finally, we looked at differences in student responses between the state sample and the census to determine if the census results could be used among racial/ethnic populations.

All analyses were conducted using STATA statistical software package, version 15.1.

3. Overview of HYS Eligible and Participating Schools

HYS Eligibility and Sampling

Figure 1: Eligibility to Participate in HYS

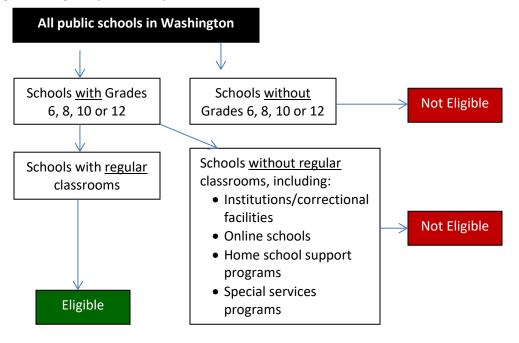
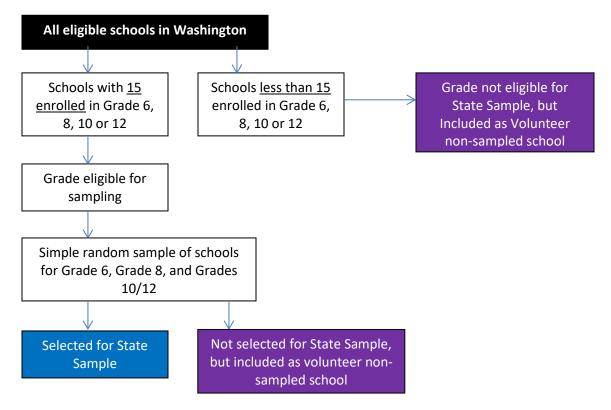
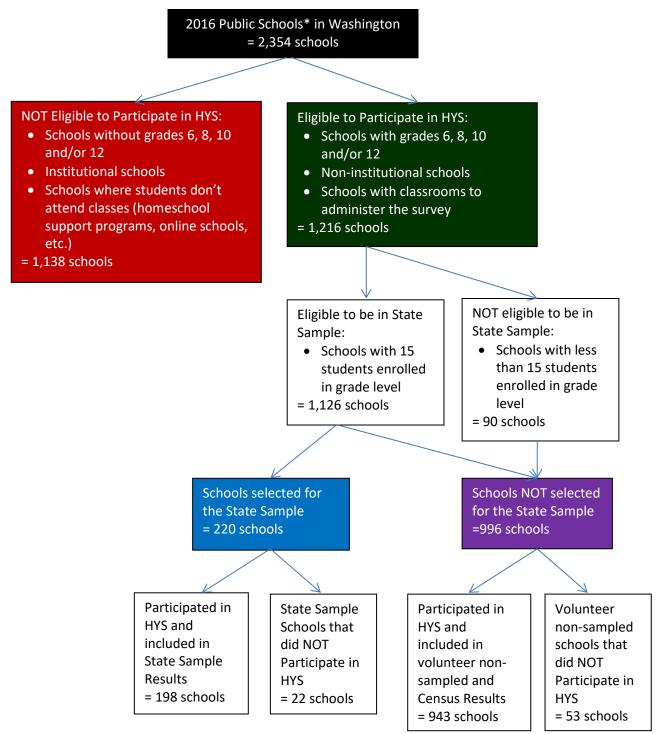


Figure 2: Eligibility and Selection of State Sample



HYS Participation by Eligibility and Sampling Results

Figure 3: Description of schools included in the 2016 HYS and status as sample or volunteer nonsampled schools



*Note: Private schools in Washington can participate in HYS, but they are not actively recruited, and their results are not aggregated into district, county, ESD or state results. In 2016, one private school participated in HYS. Neither that school nor their results are included in this bias analysis.

The grade levels of public schools in Washington vary across the state. Some districts have elementary schools that are grades kindergarten through 6th, so that district's 6th graders are elementary students. Other districts have elementary schools that are kindergarten through 5th and their 6th graders are at a middle school, so that district's 6th graders are middle school students. The following figures (Figures 4a-c) show how grade levels in schools are configured for all schools eligible to participate in the 2016 HYS, any schools that participated (census), and those in the state sample that participated.

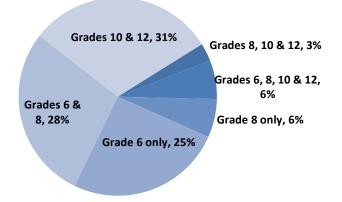


Figure 4a: Grade levels of all schools eligible for 2016 HYS

Figure 4b: Grade levels in census schools that participated in 2016 HYS

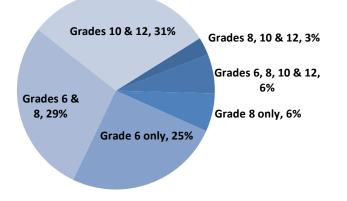
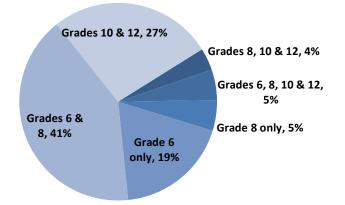


Figure 4c: Grade levels in schools in the state sample that participated in 2016 HYS



Questions

Were certain types of schools more likely to participate?

- 1. What are the participation rates for the state sample and for all eligible schools?
- 2. Are participation rates for alternative schools different from non-alternative schools?
- 3. Do schools that participated have different school demographic characteristics compared to schools that did not participate?
- 4. Do schools that participated have different community demographic characteristics compared to schools that did not participate?
- 5. Are certain types of schools causing more bias?

Methods

To assess bias related to differences among schools that participated or did not participate in the survey, we assessed the following school characteristics, available from the Office of Superintendent of Public Instruction: www.k12.wa.us/dataadmin:

- School participation rates by sampling status
- School type Alternative school status
- School Demographics
 - Percent minority enrollment
 - o Percent of students receiving free or reduced-price lunch
 - School enrollment by grade
 - Percent meeting English Assessment (grades 6 and 8), meeting Math Assessment (grades 6 and 8), meeting Science Assessment (grade 8), and meeting Biology Assessment (grade 10)
 - On-time graduation rate (for schools with grades 10 and 12)
 - School rural or urban designation based on geographic setting codes

We compared the above characteristics for schools that participated in HYS and schools that did not participate. We conducted separate analyses by grade comparing participating schools drawn for the state sample, comparing participating schools not drawn for the state sample, and comparing all eligible participating schools – census schools (state sample plus volunteer non-sampled schools).

For these analyses, we used t-test, Fisher's exact and Chi-square to compare schools by participation status. We used Chi-square and Fisher's exact test to compare schools by alternative status. Fisher's exact was used if cell sizes were five or fewer and Chi-square used otherwise. We used t-test to compare schools on percent minority enrollment, percent of students receiving free or reduced-price lunch, meeting school assessment requirements (English, math, science, and biology), on-time graduation rate, and grade-level school enrollment. Comparisons were considered statistically significant if the p-value was less than 0.05 (that is, a difference of the size found would be expected to occur by chance less than 5 times in 100.).

Results

1. School Participation Rates by Sampling Status

A total of 198 schools and 36,809 students contributed data to the statewide sample. In addition, 195,203 students in 943 schools participated in the survey as volunteer non-sampled schools

Sixth grade schools in the state sample were less likely to participate than 8th, 10th and 12th grade schools that were not sampled (Tables 2a-b). State sample participation rates were higher than census. Higher participation rates for state sampled schools are expected, because state sample schools received additional phone calls to recruit their participation. In addition, schools with less than 15 students per grade are not eligible for the sample but can participate in HYS, so schools that are too small to receive results may choose not participate in HYS. Table 2b shows participation rate for all census schools (state sample plus volunteer non-sampled schools.

Among schools drawn for the state sample, participation rates varied from 87% among 6th grades to 94% among 12th grades (Table 2a).

-				
	Grade	Participated	Eligible	Participation Rate (%)
	6	83	96	86.5%
	8	64	68	94.1%
	10	55	59	93.2%
	12	60	64	93.8%

Table 2a: Participation rate by grade for schools drawn for the state sample.

Table 2b provides participation rates by grade for census schools. Participation ranged from 82% among 6th grades to 84% among 8th, 10th, and 12th.

-				
	Grade	Participated	Eligible	Participation Rate (%)
	6	595	722	82.4%
	8	448	530	84.5%
	10	409	485	84.3%
	12	403	480	84.0%

Table 2b: Participation rate by grade for the census.

2. School Participation Rates by School Type– Alternative and Non-Alternative Schools

OSPI assigns each public school a school type code. For this analysis schools were considered to be alternative schools if they had a school type code of "A", "C", "I", "Q", "R", "5", "T", "V", or "Z". Some of these alternative schools were not considered eligible for participation in HYS because they do not have an environment where students can anonymously take the survey, e.g., online schools. Alternative schools in this analysis included 130 type "A", 2 type "C", 1 type "I", 3 type "Q", 2 type "R", 12 type "5", 5 type "T", and 1 type "V". Schools were considered to be non-alternative schools if they had the school type "P", this analysis included 1,057 type "P" schools. A Demographic Information by School file with these codes is available on OSPI's website at: http://reportcard.ospi.k12.wa.us/DataDownload.aspx.

Schools with less than 15 students per grade were not included in the state sampling frame but were considered eligible to participate in the survey. Often alternative schools have small school enrollments, so they may be less likely to be included in the state sample.

Alternative schools in the state sample were just as likely to participate as traditional schools (Table 3a). Bias analyses from previous survey administrations found alternative schools were less likely to participate. In 2016, very few alternative schools were selected for the state sample, possibly making it difficult to detect a difference in participation.

Grade	School Type	Did Not Participate	Participated	Difference
Grade	School Type	%, (n)	%, (n)	(p-value)*
C	Non-Alternative	13.8% (n=13)	86.2% (n=81)	1.0000
6	Alternative	0.0% (n=0)	100.0% (n=2)	
8	Non-Alternative	4.8% (n=3)	95.2% (n=60)	0.2690
õ	Alternative	20.0% (n=1)	80.0% (n=4)	
10	Non-Alternative	3.8% (n=2)	96.2% (n=50)	0.0650
10	Alternative	28.6% (n=2)	71.4% (n=5)	
12	Non-Alternative	3.9% (n=2)	96.1% (n=49)	0.1810
12	Alternative	15.4% (n=2)	84.6% (n=11)	

Table 3a: Participation by alternative school status for schools in the state sample.

*Fisher exact

Among the census, alternative schools were significantly less likely to participate in HYS for all grades (Table 3b). Some alternative schools may be less likely to participate because students are in the classroom less often or at different times, making it harder to administer the survey. They might also be less likely to participate if they aren't eligible to receive survey results due to having less than 15 students per grade.

 Table 3b: Participation by alternative school status for the census.

Grade	School Turno	Did Not Participate	Participated	Difference
Grade	School Type	%, (n)	%, (n)	(p-value)
6	Non-Alternative	16.6% (n=112)	83.4% (n=562)	0.0000
0	Alternative	31.3% (n=15)	68.8% (n=33)	0.0060
8	Non-Alternative	13.1% (n=62)	86.9% (n=411)	0.0000
0	Alternative	35.1% (n=20)	64.9% (n=37)	0.0000
10	Non-Alternative	9.6% (n=34)	90.4% (n=320)	0.0000
10	Alternative	32.1% (n=42)	67.9% (n=89)	0.0000
12	Non-Alternative	10.5% (n=37)	89.5% (n=315)	0.0000
12	Alternative	31.3% (n=40)	68.8% (n=88)	0.0000

3. School Participation Rates by School Demographics

For a breakdown of school types and the grade levels they include, see the charts on page 6, for state sampled schools and for all participating schools (state sample and volunteer non-sampled schools combined).

Grade 6

Among 6th grades drawn for the state sample, school and grade-level characteristics did not vary significantly by participation status, except the percentage of free or reduced-price lunch. Participating schools had lower free or reduced-price lunch rates than schools that did not participate (Table 4a).

School/Grade-level	Participated	Did Not Participate	Overall	Difference
Variables	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	(p-value)
% Minority enrollment	39.8 ±5.0 (n=83)	43.7 ±15.5 (n=13)	40.3 ±4.8 (n=96)	0.580
% Free/reduced lunch	42.1 ±4.8 (n=83)	58.7 ±10.5 (n=13)	44.3 ±4.5 (n=96)	0.012
Grade-level enrollment	137.3 ±20.2 (n=83)	91.9 ±46.0 (n=13)	131.2 ±18.7 (n=96)	0.105
Met English Assessment	57.6 ±3.9 (n=74)	50.5 ±6.8 (n=12)	56.6 ±3.5 (n=86)	0.177
Met Math Assessment	50.6 ±4.2 (n=74)	42.4 ±6.8 (n=12)	49.5 ±3.8 (n=86)	0.139

Table 4a: Mean school and grade-level variables by participation for 6 th grade state sample schools.
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Among census schools, participating schools had a significantly higher percentage of minority enrollment, higher grade-level enrollment, and higher percentage of students meeting the English and Math Assessments than schools that did not participate (Table 4b).

able 4b. Weath school and grade-level variables by participation for census of grade schools.					
School/Grade-level	Participated	Did Not Participate	Overall	Difference	
Variables	Mean, ±95% Cl, (n)	Mean, ±95% CI, (n)	Mean, ±95% CI, (n)	(p-value)	
% Minority enrollment	43.3 ±1.9 (n=587)	37.0 ±5.7 (n=113)	42.3 ±1.9 (n=700)	0.015	
% Free/reduced lunch	45.8 ±1.8 (n=595)	49.5 ±4.8 (n=121)	46.5 ±1.7 (n=716)	0.119	
Grade-level enrollment	127.3 ±7.9 (n=589)	39.3 ±8.3 (n=118)	112.6 ±7.1 (n=707)	0.000	
Met English Assessment	55.8 ±1.5 (n=522)	50.2 ±4.0 (n=70)	55.1 ±1.4 (n=592)	0.011	
Met Math Assessment	48.8 ±1.6 (n=521)	42.6 ±3.9 (n=70)	48.0 ±1.5 (n=591)	0.008	

Table 4b: Mean school and grade-level variables by participation for census 6th grade schools.

Grade 8

Among 8th grades drawn for the state sample, there were no differences between participation and non-participating schools (Table 5a).

School/Grade-level	Participated	Did Not Participate	Overall	Difference
Variables	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	(p-value)
% Minority enrollment	41.1 ±5.9 (n=64)	24.7 ±11.6 (n=3)	40.3 ±5.7 (n=67)	0.249
% Free/reduced lunch	47.8 ±5.2 (n=64)	41.8 ±8.8 (n=3)	47.6 ±5.0 (n=67)	0.625
Grade-level enrollment	165.3 ±29.9 (n=64)	83.0 ±102.6 (n=4)	160.5 ±29.0 (n=68)	0.193
Met English Assessment	57.6 ±4.1 (n=59)	63.0 ±4.9 (n=3)	57.9 ±3.9 (n=62)	0.566
Met Science Assessment	63.4 ±3.9 (n=59)	73.3 ±8.6 (n=3)	63.9 ±3.7 (n=62)	0.270
Met Math Assessment	44.7 ±4.1 (n=59)	45.4 ±7.9 (n=3)	44.7 ±3.9 (n=62)	0.939

Table 5a: Mean school and grade-level variables by participation for the 8th grade state sample schools.

Census 8th grade participating schools had a significantly higher percentage of minority enrollment and higher grade-level enrollment than schools that did not participate (Table 5b).

School/Grade-level	Participated	Did Not Participate	Overall	Difference
Variables	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	Mean, ±95% CI, (n)	(p-value)
% Minority enrollment	41.2 ±2.2 (n=445)	29.5 ±8.3 (n=60)	39.8 ±2.2 (n=505)	0.001
% Free/reduced lunch	45.6 ±2.1 (n=447)	47.8 ±6.3 (n=76)	46.0 ±2.0 (n=523)	0.449
Grade-level enrollment	172.6 ±11.3 (n=446)	31.2 ±13.7 (n=66)	154.4 ±10.8 (n=512)	0.000
Met English Assessment	58.1 ±1.6 (n=375)	54.6 ±7.8 (n=31)	57.9 ±1.6 (n=406)	0.261
Met Science Assessment	64.7 ±1.7 (n=374)	61.6 ±8.0 (n=32)	64.4 ±1.7 (n=406)	0.336
Met Math Assessment	46.5 ±1.8 (n=377)	43.1 ±6.7 (n=28)	46.2 ±1.7 (n=405)	0.326

Grade 10

Among 10th grades drawn for the state sample, participating schools had significantly higher on-time graduation rates than schools that did not participate (Table 6a).

School/Grade-level	Participated	Did Not Participate	Overall	Difference
Variables	Mean, ±95% CI, (n)	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	(p-value)
% Minority enrollment	38.0 ±6.0 (n=55)	43.3 ±29.4 (n=4)	38.3 ±5.8 (n=59)	0.654
% Free/reduced lunch	40.1 ±4.9 (n=55)	51.3 ±14.6 (n=4)	40.8 ±4.7 (n=59)	0.247
Grade-level enrollment	271.7 ±54.7 (n=55)	156.5 ±215.6 (n=4)	263.9 ±53.1 (n=59)	0.289
Met Biology Assessment	75.0 ±6.4 (n=17)	79.6 ± (n=1)	75.3 ± (n=18)	na
On-time Graduation	87.3 ±4.0 (n=54)	64.6 ±36.0 (n=3)	86.1 ±4.3 (n=57)	0.020

Table 6a: Mean school and grade-level variables by participation for 10th grade state sample schools.

Census 10th grade participating schools had a significantly lower percentage of free or reduced-price lunch, higher grade-level enrollment, and higher on-time graduation rates than schools that did not participate (Table 6b).

School/Grade-level	Participated	Did Not Participate	Overall	Difference
Variables	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	Mean, ±95% CI, (n)	(p-value)
% Minority enrollment	39.5 ±2.4 (n=403)	40.2 ±7.9 (n=66)	39.6 ±2.4 (n=469)	0.850
% Free/reduced lunch	44.1 ±2.0 (n=407)	52.5 ±5.8 (n=69)	45.3 ±1.9 (n=476)	0.002
Grade-level enrollment	193.1 ±18.1 (n=404)	48.3 ±24.7 (n=71)	171.5 ±16.5 (n=475)	0.000
Met Biology Assessment	66.3 ±4.3 (n=95)	56.5 ±16.6 (n=11)	65.3 ±4.2 (n=106)	0.166
On-time Graduation	81.8 ±2.0 (n=386)	63.2 ±8.3 (n=51)	79.7 ±2.1 (n=437)	0.000

Table 6b: Mean school and grade-level variables by participation for census 10th grade schools.

Grade 12

Among 12th grades drawn for the state sample, there were no differences between participation and non-participating schools (Table 7a).

School/Grade-level	Participated	Did Not Participate	Overall	Difference
Variables	Mean, ±95% CI, (n)	Mean, ±95% Cl, (n)	Mean, ±95% CI, (n)	(p-value)
% Minority enrollment	37.5 ±6.4 (n=60)	44.7 ±38.7 (n=3)	37.8 ±6.3 (n=3)	0.636
% Free/reduced lunch	42.3 ±5.0 (n=60)	52.8 ±20.2 (n=3)	42.8 ±4.9 (n=63)	0.371
Grade-level enrollment	244.9 ±45.6 (n=60)	176.8 ±176.2 (n=4)	240.6 ±44.0 (n=64)	0.467
On-time Graduation	82.1 ±5.8 (n=59)	60.1 ±26.9 (n=4)	80.7 ±5.8 (n=63)	0.068

Census 12th grade participating schools had a significantly lower percentage of free or reduced-price lunch, a higher grade-level enrollment, and higher on-time graduation rates than schools that did not participate (Table 7b).

School/Grade-level	Participated	Did Not Participate	Overall	Difference
Variables	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	Mean, ±95% CI, (n)	(p-value)
% Minority enrollment	39.4 ±2.4 (n=400)	36.6 ±7.3 (n=71)	39.0 ±2.3 (n=471)	0.399
% Free/reduced lunch	44.3 ±2.0 (n=401)	52.4 ±5.8 (n=72)	45.5 ±1.9 (n=473)	0.003
Grade-level enrollment	196.5 ±16.5 (n=401)	53.3 ±21.6 (n=75)	173.9 ±15.1 (n=476)	0.000
On-time Graduation	81.5 ±2.0 (n=386)	66.1 ±7.9 (n=53)	79.6 ±2.1 (n=439)	0.000

4. School Participation Rates by Community Demographics

Schools were designated as urban and non-urban based on the school building zip code and the associated rural-urban commuting area codes (RUCA), provided by the Washington State Department of Social and Health Services' Research and Data Analysis Division. This bias analysis looked at four rural-urban classifications:

- Urban
- Sub-urban
- Small Town
- Isolated/Rural

For more information on how these classifications are defined, please see the Washington State Department of Health's Rural-Urban Classification Guidelines: <u>https://www.doh.wa.gov/Portals/1/Documents/1500/RUCAGuide.pdf</u>

Among schools drawn for the state sample, 6th isolated/rural schools were also less likely to participate than urban schools (Table 8a).

Grade	School Type	Did Not Participate	Participated	Difference
Grade		%, (n)	%, (n)	(p-value)*
	Urban	10.4% (n=7)	89.6% (n=60)	-
<i>c</i>	Sub-Urban	11.1% (n=2)	88.9% (n=16)	0.9350
6	Small Town	28.6% (n=2)	71.4% (n=5)	0.1840
	Isolated/Rural	50.0% (n=2)	50.0% (n=2)	0.0460
	Urban	2.4% (n=1)	97.6% (n=40)	-
-	Sub-Urban	16.7% (n=2)	83.3% (n=10)	0.1030
8	Small Town	0.0% (n=0)	100.0% (n=4)	omit
	Isolated/Rural	8.3% (n=1)	91.7% (n=11)	0.3750
	Urban	8.6% (n=3)	91.4% (n=32)	-
	Sub-Urban	0.0% (n=0)	100.0% (n=10)	omit
10	Small Town	0.0% (n=0)	100.0% (n=4)	omit
	Isolated/Rural	10.0% (n=1)	90.0% (n=9)	0.8890
12	Urban	9.8% (n=4)	90.2% (n=37)	-
	Sub-Urban	0.0% (n=0)	100.0% (n=10)	omit
	Small Town	0.0% (n=0)	100.0% (n=4)	omit
	Isolated/Rural	0.0% (n=0)	100.0% (n=9)	omit

*Fisher exact

Among census 6th, 8th, 10th and 12th grade schools, isolated rural schools were less likely to participate than urban schools. Sixth and 8th grade small town schools were less likely than urban schools. Sixth, 8th and 12th grade sub-urban schools were also less likely to participate than urban schools (Table 8b).

Grade	School Type	Did Not Participate	Participated	Difference
Graue		%, (n)	%, (n)	(p-value)*
	Urban	9.3% (n=42)	90.7% (n=408)	-
6	Sub-Urban	23.9% (n=28)	76.1% (n=89)	0.0000
6	Small Town	28.6% (n=14)	71.4% (n=35)	0.0000
	Isolated/Rural	36.4% (n=40)	63.6% (n=70)	0.0000
	Urban	6.1% (n=18)	93.9% (n=276)	-
	Sub-Urban	21.4% (n=21)	78.6% (n=77)	0.0000
8	Small Town	27.5% (n=11)	72.5% (n=29)	0.0000
	Isolated/Rural	28.8% (n=30)	71.2% (n=74)	0.0000
	Urban	11.1% (n=28)	88.9% (n=224)	-
	Sub-Urban	17.8% (n=16)	82.2% (n=74)	0.1080
10	Small Town	17.9% (n=7)	82.1% (n=32)	0.2270
	Isolated/Rural	22.8% (n=23)	77.2% (n=78)	0.0060
	Urban	10.5% (n=26)	89.5% (n=222)	-
12	Sub-Urban	19.3% (n=17)	80.7% (n=71)	0.0360
	Small Town	15.4% (n=6)	84.6% (n=33)	0.3690
	Isolated/Rural	26.2% (n=27)	73.8% (n=76)	0.0000

 Table 8b: Participation by rural/urban designation for the census.

Yes, certain types of schools were more likely to participate.

- 1. Participation rates were slightly lower for 6th grade schools in both the state sample and all eligible schools (census).
- 2. For state sample schools, alternative schools were just as likely to participate as nonalternative schools.

For all eligible schools (census), 6th, 8th, 10th and 12th grade alternative schools were less likely to participate than non-alternative schools.

3. For state sample schools that did not participate, 6th grade schools had higher percentages of students receiving free/reduced lunch; and 10th grade schools had lower on-time graduation rates.

For all eligible schools (census) that did not participate, 6th and 8th grade schools had smaller percent of minority enrollment; 6th, 8th, 10th and 12^h grade schools had smaller grade-level enrollments; 10th and 12th grade schools had higher percentages of students receiving free/reduced lunch; and 6th grade schools had lower percentages of students meeting English and Math assessments. Tenth and 12th grade schools had lower on-time graduation rates.

4. For state sample schools, 6th grade isolated/rural schools were less likely to participate than urban schools.

For all eligible schools (census), 6th, 8th, and 12th grade sub-urban schools were less likely to participate than urban schools; 6th and 8th grade small town schools were less likely to participate than urban schools; and 6th, 8th, 10th and 12th isolated/rural schools were less likely to participate than urban schools.

Very little school and community bias was found among state sample schools. More bias was found among all eligible schools (census). Some of this increased bias may be due to the larger number of schools in the census which makes it easier to detect differences.

Note that some differences in school characteristics may be redundant and/or logical, i.e., isolated/rural schools are in areas with small populations and inherently have smaller grade-level enrollments. The following groups are highly correlated:

- Urban/rural designation and enrollment size (grades 8, 10, and 12)
- Percent minority and percent free/reduced lunch (grades 6, 8, 10, and 12)
- Meeting assessment scores (English/math grade 6, English/math/science grade 8)
- Meeting assessment scores and percent free/reduced lunch (grades 6, 8, and 10)
- Meeting assessment scores and on-time graduation (grade 10)
- On-time graduation and percent free/reduced lunch (grade 10)

Questions

Were certain types of schools more likely to ask the optional questions?

- 1. What are the optional question participation rates for the state sample and for all participating schools (census)?
- 2. Was asking optional questions different for alternative schools different from nonalternative schools?
- 3. Do schools that asked the optional questions have different school demographic characteristics compared to schools that did not ask them?
- 4. Do schools that asked the optional questions have different community demographic characteristics compared to schools that did not ask them?

Methods

To assess bias related to differences among secondary schools that administered the optional survey questions, we assessed the following school characteristics, available from the Office of Superintendent of Public Instruction at www.k12.wa.us/dataadmin and http://reportcard.ospi.k12.wa.us/DataDownload.aspx:

- School participation rates by sampling status
- School type Alternative school status
- School Demographics
 - o Percent minority enrollment
 - o Percent of students receiving free or reduced-price lunch
 - School enrollment by grade
 - Percent meeting English Assessment (grades 6 and 8), meeting Math Assessment (grades 6 and 8), meeting Science Assessment (grade 8), and meeting Biology Assessment (grade 10)
 - On-time graduation rate (for schools with grades 10 and 12)
 - School rural or urban designation based on geographic setting codes

We compared the above characteristics for schools that administered the optional questions and those that did not. We conducted separate analyses by grade comparing optional administration schools drawn for the state sample, comparing optional administration schools not drawn for the state sample, and comparing all eligible schools – census schools (state sample plus volunteer non-sampled schools).

For these analyses we used t-test, Fisher's exact and Chi-square to compare schools by participation status. We used Chi-square and Fisher's exact test to compare schools by alternative status. Fisher's exact was used if cell sizes were five or fewer and Chi-square used otherwise. We used t-test to compare schools on percent minority enrollment, percent of students receiving free or reduced-price lunch, school assessment requirements (English, math, science, and biology), on-time graduation rate, and grade-level school enrollment. Comparisons were considered statistically significant if the p-value was less than 0.05 (that is, a difference of the size found would be expected to occur by chance less than 5 times in 100).

Secondary schools were considered to have administered the optional questions if their students completed responses from the optional survey questions.

Results 1. Optional Question Participation Rates by Sampling Status

Among state sample schools, approximately two-thirds (67%) of 8th grade participating schools administered the optional questions, while for grades 10 and 12 approximately 70% of participating schools administered these questions (Table 9a). The percent of state sample schools was similar to the percent and census schools administering optional questions (Table 9b).

Grade	Participated	Optional Questions Administered (n)	Optional Questions Administered (%)
8	64	43	67.2%
10	55	39	70.9%
12	60	42	70.0%

Table 9a: Optional question administration status by grade for participating state sample schools.

Grade	Participated	Optional Questions Administered (n)	Optional Questions Administered (%)
8	448	307	68.5%
10	409	306	74.8%
12	403	300	74.4%

2. Optional Questions by School Type– Alternative and Non-Alternative Schools

Alternative schools in the state sample were just as likely to administer the optional questions (Table 10a). In 2016, very few alternative schools were selected for the state sample, possibly making it difficult to determine if there is a real difference.

Table 10a: Optional question administration by alternative school status for participating state sample
schools.

Grade	School Type	Did Not Administer Optional Questions %, (n)	Administered Optional Questions %, (n)	Difference (p-value)*	
0	Non-Alternative	68.3% (n=41)	31.7% (n=19)	0.5020	
8	Alternative	50.0% (n=2)	50.0% (n=2)	0.5920	
10	Non-Alternative	74.0% (n=37)	26.0% (n=13)	0.1410	
10	Alternative	40.0% (n=2)	60.0% (n=3)	0.1410	
12	Non-Alternative	73.5% (n=36)	26.5% (n=13)	0.2790	
	Alternative	54.5% (n=6)	45.5% (n=5)	0.2790	

*Fisher exact

Among census schools, alternative schools were just as likely to administer the optional questions (Table 10b).

Grade	School Type	Did Not Administer Optional Questions	Administered Optional Questions	Difference
		%, (n)	%, (n)	(p-value)*
8	Non-Alternative	68.4% (n=281)	31.6% (n=130)	0.4500
õ	Alternative	70.3% (n=26)	29.7% (n=11)	0.4500
10	Non-Alternative	75.6% (n=242)	24.4% (n=78)	0.1100
10	Alternative	71.9% (n=64)	28.1% (n=25)	0.1100
10	Non-Alternative	75.2% (n=237)	24.8% (n=78)	0.2160
12	Alternative	71.6% (n=63)	28.4% (n=25)	0.2160

Table 10b: Optional question administration by alternative school status for census schools.

3. Optional Questions by School Demographics

Among schools selected for the state sample, schools that administered the optional questions were similar to schools that did not administer them on most variables assessed, except optional taking 8th grade schools had lower grade-level enrollment (Tables 11a, 12a, and 13a).

Among census schools, schools with grades 8, 10 or 12 that administered the optional questions had higher minority enrollment than non-administering schools (Tables 11c, 12a, and 13a). Schools that administer the optional questions were less likely to meet the math assessment (grade 8) and more likely to meet the biology assessment (grade 10).

Grade 8

Among schools drawn for the state sample, 8th grade schools administering the optional surveys had lower school grade-level enrollment and lower percentages of students who met the Math Assessment than schools that did not (Table 11a).

Table 11a: Mean school and grade-level variables by optional question participation for 8 th grade state)
sample schools.	

	Administered	Did Not Administer		
School/Grade-level	Optional Questions	Optional Questions	Overall	Difference
Variables	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	Mean, ±95% CI, (n)	(p-value)
% Minority enrollment	42.7 ±7.2 (n=43)	37.7 ±10.4 (n=21)	41.1 ±5.9 (n=64)	0.445
% Free/reduced lunch	50.8 ±5.9 (n=43)	44.1 ±9.5 (n=21)	47.8 ±5.2 (n=64)	0.151
Grade-level enrollment	144.0 ±31.2 (n=43)	208.9 ±62.0 (n=21)	165.3 ±29.9 (n=64)	0.045
Met English Assessment	55.5 ±4.9 (n=40)	62.5 ±7.6 (n=18)	57.7 ±4.2 (n=58)	0.132
Met Science Assessment	68.3 ±7.3 (n=18)	61.4 ±4.6 (n=40)	63.6 ±3.9 (n=58)	0.113
Met Math Assessment	32.2 ±6.9 (n=8)	58.4 ±28.6 (n=3)	39.3 ±11.0 (n=11)	0.028

Among census grades, schools administering the optional surveys had a higher percentage of minority enrollment than schools that did not (Table 11b).

	Administered	Did Not Administer		
School/Grade-level	Optional Questions	Optional Questions	Overall	Difference
Variables	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	Mean, ±95% CI, (n)	(p-value)
% Minority enrollment	43.4 ±2.7 (n=304)	36.6 ±3.9 (n=141)	41.2 ±2.2 (n=445)	0.006
% Free/reduced lunch	46.0 ±2.4 (n=305)	45.3 ±3.4 (n=141)	45.7 ±2.0 (n=446)	0.316
Grade-level enrollment	171.6 ±13.9 (n=304)	175.9 ±19.2 (n=141)	173.0 ±11.3 (n=445)	0.728
Met English Assessment	57.6 ±2.0 (n=244)	58.9 ±2.9 (n=122)	58.1 ±1.6 (n=366)	0.481
Met Science Assessment	64.2 ±2.1 (n=244)	66.8 ±2.9 (n=120)	65.1 ±1.7 (n=364)	0.166
Met Math Assessment	40.5 ±6.3 (n=32)	48.4 ±8.7 (n=17)	43.3 ±5.1 (n=49)	0.155

Table 11b: Mean school and grade-level variables by optional question participation for census 8th grade schools.

Grade 10

Among 10th grades drawn for the state sample, schools administering the optional surveys had a higher percentage of students who met the Biology Assessment than schools that did not (Table 12a).

Table 12a: Mean school and grade-level variables by optional question participation for 10 th grade	
state sample schools.	

School/Grade-level	Administered Optional Questions	Did Not Administer Optional Questions	Overall	Difference
Variables	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	(p-value)
% Minority enrollment	38.0 ±6.0 (n=39)	37.8 ±14.8 (n=16)	38.0 ±6.0 (n=55)	0.982
% Free/reduced lunch	39.1 ±5.3 (n=39)	42.5 ±11.2 (n=16)	40.1 ±4.9 (n=55)	0.546
Grade-level enrollment	285.0 ±66.6 (n=39)	239.4 ±96.4 (n=16)	271.7 ±54.7 (n=55)	0.232
Met Biology Assessment	78.0 ±5.0 (n=14)	61.0 ±25.8 (n=3)	75.0 ±6.4 (n=17)	0.044
On-time Graduation	89.3 ±2.4 (n=38)	82.7 ±12.3 (n=16)	87.3 ±4.0 (n=54)	0.146

Among census 10th grade schools, schools administering the optional surveys had a higher percentage of minority enrollment than schools that did not (Table 12b).

Table 12b: Mean school and grade-level variables by optional question participation for census 10 th	
grade schools.	

School/Grade-level	Administered Optional Questions	Did Not Administer Optional Questions	Overall	Difference
Variables	Mean, ±95% CI, (n)	Mean, ±95% CI, (n)	Mean, ±95% Cl, (n)	(p-value)
% Minority enrollment	41.3 ±2.8 (n=302)	34.2 ±4.8 (n=101)	39.5 ±2.4 (n=403)	0.014
% Free/reduced lunch	45.2 ±2.4 (n=303)	40.8 ±3.6 (n=103)	44.1 ±2.0 (n=406)	0.066
Grade-level enrollment	196.7 ±20.8 (n=302)	184.3 ±37.1 (n=101)	193.6 ±18.1 (n=403)	0.508
Met Biology Assessment	65.7 ±4.8 (n=79)	69.0 ±8.7 (n=16)	66.3 ±4.3 (n=95)	0.582
On-time Graduation	82.1 ±2.2 (n=288)	81.0 ±4.4 (n=98)	81.8 ±2.0 (n=386)	0.608

Grade 12

Among 12th grades drawn for the state sample, schools administering the optional questions were similar to schools that did not (Table 13a).

state sample schools.	Administered	Did Not Administer		
School/Grade-level	Optional Questions	Optional Questions	Overall	Difference
Variables	Mean, ±95% Cl, (n)	Mean, ±95% Cl, (n)	Mean, ±95% CI, (n)	(p-value)
% Minority enrollment	38.1 ±7.1 (n=42)	36.0 ±13.7 (n=18)	37.5 ±6.4 (n=60)	0.772
% Free/reduced lunch	42.0 ±5.8 (n=42)	42.9 ±10.0 (n=18)	42.3 ±5.0 (n=60)	0.439
Grade-level enrollment	260.1 ±56.0 (n=42)	209.3 ±77.6 (n=18)	244.9 ±45.6 (n=60)	0.321
On-time Graduation	85.2 ±4.9 (n=41)	75.1 ±15.1 (n=18)	82.1 ±5.8 (n=59)	0.114

Table 13a: Mean school and grade-level variables by optional question participation for 12th grade state sample schools.

Among 12th grades census schools, schools administering the optional surveys had a higher percentage of minority enrollment than schools that did not (Table 13b).

Table 13b: Mean school and grade-level variables by optional question participation census 12th grade schools.

	Administered	Did Not Administer		
School/Grade-level	Optional Questions	Optional Questions	Overall	Difference
Variables	Mean, ±95% CI, (n)	Mean, ±95% CI, (n)	Mean, ±95% CI, (n)	(p-value)
% Minority enrollment	41.3 ±2.7 (n=297)	34.3 ±4.6 (n=103)	39.4 ±2.4 (n=400)	0.012
% Free/reduced lunch	45.2 ±2.4 (n=297)	41.7 ±3.5 (n=103)	44.3 ±2.0 (n=400)	0.131
Grade-level enrollment	202.6 ±19.1 (n=297)	180.2 ±33.2 (n=103)	196.9 ±16.5 (n=400)	0.245
On-time Graduation	81.8 ±2.2 (n=287)	80.4 ±4.5 (n=99)	81.5 ±2.0 (n=386)	0.532

4. Optional Questions by Community Demographics

Among schools drawn for the state sample, there were no differences in administering the optional questions by urban and non-urban locations (Table 14a).

Table 14a: Optional question participation by rural/urban designation for participating schools in the
state sample.

Grade	School Type	Administered Optional Questions	Did Not Administer Optional Questions	Difference
		%, (n)	%, (n)	(p-value)*
	Urban	59.0% (n=23)	41.0% (n=16)	-
8	Sub-Urban	70.0% (n=7)	30.0% (n=3)	0.5260
õ	Small Town	100.0% (n=4)	0.0% (n=0)	-
	Isolated/Rural	81.8% (n=9)	18.2% (n=2)	0.1780
	Urban	71.9% (n=23)	28.1% (n=9)	-
10	Sub-Urban	50.0% (n=5)	50.0% (n=5)	0.2080
10	Small Town	75.0% (n=3)	25.0% (n=1)	-
	Isolated/Rural	88.9% (n=8)	11.1% (n=1)	0.3130
	Urban	72.2% (n=26)	27.8% (n=10)	-
10	Sub-Urban	50.0% (n=5)	50.0% (n=5)	0.1930
12	Small Town	75.0% (n=3)	25.0% (n=1)	0.9060
	Isolated/Rural	88.9% (n=8)	11.1% (n=1)	0.3170

*Fisher exact

Among 12th grade census schools, sub-urban schools were more likely to ask the optional questions than urban schools (Table 8c).

Grade	School Type	Administered Optional Questions	Did Not Administer Optional Questions	Difference
		%, (n)	%, (n)	(p-value)*
	Urban	68.1% (n=179)	31.9% (n=84)	-
8	Sub-Urban	64.9% (n=48)	35.1% (n=26)	0.6050
ð	Small Town	75.9% (n=22)	24.1% (n=7)	0.3920
	Isolated/Rural	71.6% (n=53)	28.4% (n=21)	0.5590
	Urban	77.3% (n=170)	22.7% (n=50)	-
10	Sub-Urban	64.8% (n=46)	35.2% (n=25)	0.6050
10	Small Town	78.1% (n=25)	21.9% (n=7)	0.3920
	Isolated/Rural	75.6% (n=59)	24.4% (n=19)	0.5590
	Urban	77.2% (n=169)	22.8% (n=50)	-
4.2	Sub-Urban	65.2% (n=45)	34.8% (n=24)	0.0490
12	Small Town	75.8% (n=25)	24.2% (n=8)	0.8580
	Isolated/Rural	75.0% (n=57)	25.0% (n=19)	0.7000

 Table 14b: Optional question participation by rural/urban designation for census schools.

Findings

Yes, certain types of schools were more likely to ask the optional questions.

- 1. Eighth grade schools in both the state sample and all eligible schools (census) were slightly less likely to ask the optional questions.
- 2. For the state sample and all eligible schools (census), 8th, 10th, and 12th grade alternative schools were just as likely to ask the optional questions compared to non-alternative schools.
- 3. For state sample schools, 8th grade schools with lower grade-level enrollments and lower percentages of students meeting the Math assessment were more likely to ask the optional questions. Tenth and 12th grade schools with a higher percentage of student meeting the Biology assessment were more likely to ask the optional questions.

All eligible schools (census), 8th, 10th and 12th grade schools with a higher percentage of minority enrollment were more likely to ask the optional questions.

4. For state sample schools, asking optional questions was similar for schools from different urban/rural classifications.

For all eligible schools (census), 12th grade suburban schools were less likely to ask the optional questions than urban schools.

Very little school and community bias was found among state sample schools. More bias was found among all eligible schools (census). Some of this increased bias may be due to the larger number of schools in the census which makes it easier to detect differences.

Questions

Are results for questions at the end of the survey biased due to non-completion?

For the state sample:

- 1. What percent of respondents completed the survey?
- 2. Are respondents who did not complete the survey different from those who completed the survey?
- 3. Are all respondents different from those that completed the survey?

For all participating schools (census):

- 4. What percent of respondents completed the survey?
- 5. Are respondents who did not complete the survey different from those who completed the survey?
- 6. Are all respondents different from those that completed the survey?

Methods

For our first set of analyses, survey completion was categorized as:

- "Completers" answered all of the last 30 questions, or all of the last 20 questions for respondents in grade 6.
- "Non-completers" did not answer 3 or more of the last 30 or 20 questions (between 4% and 8% of students)

The last 30 questions were selected because a student might try to finish by skipping items; we reasoned that missing 3 or more items would be more likely to reflect non-completion than missing 1 or 2 items, which might be skipped for other reasons such as unwillingness to report. A description of the last questions on each survey form are provided in Appendix B.

We developed risk ratios to assess differences between categories of participants – comparing survey completers to non-completers. A risk ratio compares rates among groups. For example, if 15% of survey completers and 30% of survey non-completers reported getting low grades, we would report a risk ratio of 0.5, meaning that completers were half as likely as non-completers to have low grades. For every risk ratio, we also provide a "95% confidence interval," which gives the range that should contain the true population value 95% of the time. The confidence interval is not a measure of how "confident" we are in the estimate; instead, it describes the range of values that we might reasonably expect to include the actual risk ratio among all Washington State students. If the confidence interval includes 1, the two groups are not statistically significantly different.

We compared respondents based on questions assessing personal characteristics found early in the survey according to their completion status by grade. Systematic differences in responses to these questions increase the likelihood of bias for questions toward the end of the survey. The characteristics for student-level comparisons include student reports of:

- School factors
 - Low grades (mostly Cs, Ds or Fs at school)
 - Feeling unsafe at school (answers of "definitely no" or "mostly no" to a question about feeling safe at school)

- Indicators of low socioeconomic status
 - Mother not completing high school
 - Housing situation due to finances
 - Food insecurity (family cutting meal size or skipping meals in past 12 months due of lack of money)
 - No recent dental visit (not visiting dentist for a check-up in the past year)
 - Receives free or reduced price lunch at school
- Behavioral factors
 - Cigarette smoking (any cigarette smoking in the past 30 days)
 - Marijuana smoking (having ever smoked marijuana)
 - Binge drinking (drinking 5 or more drinks on any one occasion in the past two weeks)
 - o Drinking alcohol (drinking any alcohol in the past 30 days)
- Race and ethnicity
 - Race and Hispanic ethnicity
 - Non-English language spoken at home

An analysis of individual survey question non-completion found that rates for 8th and 10th graders fell below the HYSPC target of 15% non-completion (see Appendix A: Non-completion by Form Type and Grade). The low completion rates for grades 8 and 10 increase concerns about biased estimates for questions near the end of the survey.

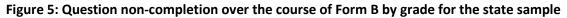
We conducted a second set of analyses to determine the potential magnitude of this bias. We took a close look at how much we might expect non-completion to influence grade-level surveys results. We compared the prevalence of responses from the full state sample to the prevalence of a subset that included only survey completers:

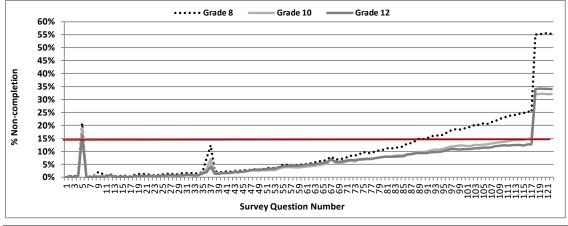
- "Completers" answered all of the last 30 questions.
- "Full state sample" all respondents in the state sample.

By excluding non-completers from the subset, we simulate the extent of bias that would occur if these questions were found at the end of the survey. We compared respondents from these two groups using the same personal characteristics listed above.

These same analyses were completed for census schools.

Figure 5 shows the state sample non-completion rates for each survey question on Form B by grade. Non-completion increases over the length of the survey. The jump in non-completion around question 38/39 is due to the questions on height and weight, which some students choose not to answer. Non-completion rates charts for all of the survey forms are available in Appendix A (page 57).





Results

1. Number of Completers and Non-completers in the State Sample

Table 15 shows the percent of respondents with survey completion and non-completion in each grade. Grade 8 has the highest percentage of survey non-completion (29%).

Grade	n	Survey Completion: Answered All Last Questions* (%)	Survey Non-completion: Missing more than 3 questions* (%)
6	9,722	75.8%	16.5%
8	8,662	65.2%	28.6%
10	10,835	77.4%	17.9%
12	7,590	81.7%	14.3%

Table 15: Survey completion by grade for state sample schools, all form	Table 15: Survey	completion by	grade for state sa	mple schools,	all forms
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*Number of respondents missing 3 or more questions among last 20 for grade 6, number of respondents missing 3 or more questions among last 30 for grades 8, 10 and 12.

8% of 6th graders, 6% of 8th graders, 5% of 10th graders, and 4% of 12 graders did not answer 1 or 2 of the last questions. They are not included in these analyses, so the percentages of completion and non-completion do not sum to 100%.

For more information about survey non-completion for each individual survey question by grade level and form type, see Appendix A: Non-completion by Form Type and Grade.

2. Completers Compared to Non-completers in the State Sample

Table 16 gives risk ratios for characteristics listed above for respondents in the state sample who completed the survey to those who did not (didn't answer at least 3 of the last 30 questions or of the last 20 questions for respondents in grade 6). Of the 67 comparison tests conducted, 49 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents who completed the survey are different from respondents who did not complete the survey for the characteristics assessed.

Survey completers in the state sample were less likely than non-completers to report:

- Lower grades in school (all grades) and feeling unsafe in school (all grades)
- Variables indicating low economic status: mother didn't graduate high school (all grades), food insecurity (grade 10), no dental visits in past year (all grades), receive free/reduced lunch (all grades)
- Substance use: cigarettes (grades 6 and 12), marijuana (all grades), binge drinking (grades 6 and 8), and alcohol use (grade 6)
- Non-English spoken at home (all grades)
- Being Hispanic (all grades), American Indian/Alaska Native (grades 6 and 10), Black/African American (grades 8, 10, and 12), and Pacific Islander (grade 8)

Survey completers in the state sample were more likely than non-completers to report:

• Being white (all grades) and Asian (all grades)

Table 16: Survey completion and student characteristics for state sample schools, risk ratio (95%
confidence interval)

	Comp	Completers Compared to Non-completers by Grade			
	6	8	10	12	
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	
School factors					
Low grades	0.4 (0.4-0.5)	0.7 (0.6-0.7)	0.5 (0.4-0.5)	0.7 (0.6-0.8)	
Feeling unsafe at school	0.8 (0.7-1.0)	0.8 (0.7-0.9)	0.9 (0.8-1.0)	0.8 (0.7-1.0)	
Indicators of low socioeconomic status					
Mother didn't graduate high school	na	0.7 (0.6-0.8)	0.6 (0.5-0.6)	0.7 (0.5-0.8)	
Living situation due to finances	na	0.9 (0.7-1.2)	0.8 (0.7-1.1)	0.8 (0.6-1.1)	
Food insecurity	na	0.9 (0.7-1.0)	0.8 (0.7-1.0)	0.9 (0.7-1.1)	
No dental visit in last year	na	0.6 (0.5-0.7)	0.5 (0.4-0.6)	0.7 (0.6-1.0)	
Receive free/reduced price lunch	na	0.7 (0.6-0.8)	0.5 (0.4-0.6)	0.5 (0.4-0.6)	
Substance use factors					
Current cigarette smoking	0.2 (0.1-0.4)	0.9 (0.7-1.2)	0.8 (0.7-1.0)	0.8 (0.6-1.0)	
Current marijuana use	0.5 (0.3-1.0)	0.7 (0.5-0.8)	0.8 (0.7-0.9)	0.8 (0.7-0.9)	
Binge drinking	0.4 (0.3-0.7)	0.7 (0.6-0.9)	0.9 (0.7-1.0)	0.9 (0.8-1.1)	
Current alcohol drinking	0.6 (0.4-0.9)	0.9 (0.7-1.0)	0.9 (0.7-1.0)	1.0 (0.9-1.2)	
Race/ethnicity** and language					
Non-English spoken at home	0.7 (0.6-0.8)	0.7 (0.7-0.8)	0.6 (0.5-0.6)	0.6 (0.5-0.7)	
White	1.6 (1.4-1.8)	1.6 (1.5-1.8)	2.0 (1.8-2.3)	1.7 (1.5-1.9)	
Hispanic	0.5 (0.5-0.6)	0.7 (0.6-0.8)	0.5 (0.4-0.5)	0.6 (0.5-0.7)	
American Indian/Alaska Native	0.8 (0.6-1.0)	0.9 (0.7-1.1)	0.5 (0.4-0.6)	0.9 (0.5-1.4)	
Asian	2.0 (1.6-2.5)	1.3 (1.1-1.6)	1.8 (1.4-2.4)	1.6 (1.1-2.3)	
Black/African American	0.8 (0.6-1.1)	0.6 (0.5-0.7)	0.6 (0.5-0.8)	0.6 (0.4-0.8)	
Pacific Islander	0.8 (0.5-1.1)	0.7 (0.5-0.9)	0.9 (0.6-1.4)	1.0 (0.5-1.8)	

* *RR: risk ratio;* 95% *CI:* 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% *CI does not include 1.0).* A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

**Race/ethnic groups only include respondents who selected a single race, except for Hispanic. For example, if a respondent only selected Asian then they are reported as Asian. If a respondent selected Asian and Hispanic then they are reported as Hispanic.

To see the specific percentages of the characteristics reported above by completion status and grade, see Appendix B: Student Characteristics by Completion.

3. State Sample Completers Compared to All State Sample Respondents

Table 17 shows the differences in prevalence between state sample survey completers and the prevalence of those all state sample respondents for the same student characteristic questions assessed above.

Of the 67 comparison tests conducted, 17 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents who completed the survey are different from respondents from the full state sample for some of the characteristics assessed.

Survey completers in the state sample were less likely than non-completers to report:

- Lower grades in school (grades 6, 8, and 10)
- Variables indicating low economic status: mother didn't graduate high school (grade 10) and no dental visits in past year (grade 8)
- Non-English spoken at home (grades 6, 8, and 10)

• Being Hispanic (all grades) and Black/African American (grade 8)

Survey completers in the state sample were more likely than non-completers to report:

• Being white (all grades)

Table 17: Simulating non-completion bias with student characteristics among state sample schools,
risk ratio (95% confidence interval) by grade.

	Completers C	ompared to All Stat	te Sample Respond	ents by Grade
	6	8	10	12
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*
School factors				
Low grades	0.8 (0.8-0.9)	0.9 (0.8-1.0)	0.9 (0.8-0.9)	1.0 (0.9-1.0)
Feeling unsafe at school	1.0 (0.9-1.1)	0.9 (0.9-1.0)	1.0 (0.9-1.1)	1.0 (0.9-1.1)
Indicators of low socioeconomic status				
Mother didn't graduate high school	na	0.9 (0.8-1.0)	0.9 (0.8-1.0)	1.0 (0.9-1.1)
Living situation due to finances	na	1.0 (0.8-1.1)	1.0 (0.9-1.1)	1.0 (0.8-1.1)
Food insecurity	na	1.0 (0.9-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.1)
No dental visit in last year	na	0.9 (0.8-1.0)	0.9 (0.8-1.0)	1.0 (0.9-1.1)
Receive free/reduced price lunch	na	0.9 (0.8-1.0)	0.9 (0.8-1.0)	1.0 (0.9-1.1)
Substance use factors				
Current cigarette smoking	0.7 (0.4-1.1)	1.0 (0.8-1.2)	1.0 (0.9-1.1)	1.0 (0.9-1.1)
Current marijuana use	0.9 (0.6-1.3)	0.9 (0.8-1.0)	1.0 (0.9-1.0)	1.0 (0.9-1.1)
Binge drinking	0.9 (0.6-1.2)	0.9 (0.8-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.1)
Current alcohol drinking	0.9 (0.7-1.2)	1.0 (0.8-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.1)
Race/ethnicity** and language				
Non-English spoken at home	0.9 (0.8-1.0)	0.9 (0.8-1.0)	0.9 (0.8-1.0)	0.9 (0.9-1.0)
White	1.1 (1.0-1.2)	1.2 (1.1-1.2)	1.1 (1.1-1.2)	1.1 (1.0-1.2)
Hispanic	0.9 (0.8-1.0)	0.9 (0.8-1.0)	0.8 (0.8-0.9)	0.9 (0.8-1.0)
American Indian/Alaska Native	1.0 (0.8-1.1)	1.0 (0.8-1.2)	0.8 (0.7-1.0)	1.0 (0.8-1.3)
Asian	1.1 (1.0-1.2)	1.1 (0.9-1.2)	1.1 (1.0-1.2)	1.1 (0.9-1.2)
Black/African American	1.0 (0.8-1.1)	0.8 (0.7-1.0)	0.9 (0.8-1.1)	0.9 (0.7-1.1)
Pacific Islander	0.9 (0.7-1.2)	0.9 (0.7-1.1)	1.0 (0.8-1.3)	1.0 (0.5-1.8)

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

4. Number of Completers and Non-completers in Census Schools

Table 18 shows the percent of respondents with survey completion and non-completion in each grade. Grade 8 has the highest percentage of survey non-completion (24%).

Grade	n	Survey Completion: Answered All Last Questions* (%)	Survey Non-completion: Missing more than 3 questions* (%)
6	63,336	73.4%	18.4%
8	62,474	69.3%	24.4%
10	55,601	77.8%	17.3%
12	38,982	82.4%	13.7%

Table 18: Survey completion by grade for census schools, all forms

*Number of respondents missing 3 or more questions among last 20 for grade 6, number of respondents missing 3 or more questions among last 30 for grades 8, 10 and 12.

8% of 6th graders, 6% of 8th graders, 5% of 10th graders and 4% of 12 graders did not answer 1 or 2 of the last questions. They are not included in these analyses, so the percentages of completion and non-completion do not sum to 100%.

For more information about survey non-completion for each individual survey question by grade level and form type, see Appendix A: Non-completion by Form Type and Grade.

5. Completers Compared to Non-completers in Census Schools

Table 19 gives risk ratios for characteristics listed above for respondents in census schools who completed the survey to those who did not (didn't answer at least 3 of the last 30 questions or of the last 20 questions for respondents in grade 6). Of the 67 comparison tests conducted, 61 showed statistically significant differences. These results indicate that respondents who completed the survey are different from respondents who did not complete the survey for the characteristics assessed.

Survey completers in all schools were less likely than non-completers to report:

- Lower grades in school (all grades) and feeling unsafe in school (all grades)
- Variables indicating low economic status: mother didn't graduate high school (all grades), housing situation due to finances (grade 12), food insecurity (all grades), no dental visits in past year (all grades), receive free/reduced lunch (all grades)
- Substance use current cigarettes, marijuana, alcohol, and binge drinking (all grades, except for current drinking among 12th graders)
- Non-English spoken at home (all grades)
- Being Hispanic (all grades), American Indian/Alaska Native (grades 6, 8, and 10), and Black/African American (all grades), and Pacific Islander (grades 6 and 8)

Survey completers in all schools more likely than non-completers to report:

• Being white (all grades) and Asian (all grades)

Table 19: Survey completion and student characteristics for census schools, risk ratio (95% confidence
interval)

	Compl	Completers Compared to Non-completers by Grade			
	6	8	10	12	
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	
School factors					
Low grades	0.5 (0.5-0.5)	0.6 (0.5-0.6)	0.6 (0.5-0.6)	0.6 (0.6-0.7)	
Feeling unsafe at school	0.7 (0.7-0.8)	0.8 (0.8-0.9)	0.8 (0.7-0.8)	0.8 (0.7-0.8)	
Indicators of low socioeconomic status					
Mother didn't graduate high school	na	0.7 (0.6-0.7)	0.6 (0.6-0.7)	0.7 (0.7-0.8)	
Housing situation due to finances	na	1.0 (0.9-1.1)	0.9 (0.8-1.0)	0.8 (0.7-0.9)	
Food insecurity	na	0.9 (0.9-1.0)	0.9 (0.8-0.9)	0.8 (0.7-0.9)	
No dental visit in last year	na	0.6 (0.5-0.6)	0.6 (0.6-0.7)	0.7 (0.6-0.8)	
Receive free/reduced price lunch	na	0.7 (0.6-0.7)	0.6 (0.5-0.6)	0.6 (0.5-0.6)	
Substance use factors		•		•	
Current cigarette smoking	0.5 (0.4-0.6)	0.8 (0.7-0.9)	0.7 (0.7-0.8)	0.7 (0.7-0.8)	
Current marijuana use	0.8 (0.6-1.0)	0.8 (0.7-0.9)	0.8 (0.7-0.8)	0.8 (0.7-0.8)	
Binge drinking	0.8 (0.7-0.9)	0.8 (0.7-0.9)	0.8 (0.7-0.9)	0.8 (0.8-0.9)	
Current alcohol drinking	0.9 (0.7-1.0)	0.9 (0.9-1.0)	0.9 (0.9-1.0)	0.9 (0.9-1.0)	
Race/ethnicity and language		•		•	
Non-English spoken at home	0.7 (0.7-0.7)	0.7 (0.7-0.8)	0.7 (0.6-0.7)	0.7 (0.7-0.8)	
White	1.6 (1.6-1.7)	1.6 (1.5-1.6)	1.6 (1.5-1.7)	1.5 (1.4-1.6)	
Hispanic	0.7 (0.7-0.8)	0.7 (0.7-0.7)	0.6 (0.6-0.7)	0.8 (0.7-0.8)	
American Indian/Alaska Native	0.8 (0.7-0.9)	0.7 (0.6-0.8)	0.6 (0.6-0.7)	0.8 (0.7-1.0)	
Asian	1.5 (1.4-1.7)	1.5 (1.4-1.7)	1.3 (1.2-1.5)	1.4 (1.2-1.5)	
Black/African American	0.6 (0.5-0.6)	0.5 (0.5-0.6)	0.6 (0.5-0.6)	0.5 (0.4-0.5)	
Pacific Islander	0.9 (0.7-1.0)	0.8 (0.7-0.9)	0.9 (0.7-1.0)	0.8 (0.7-1.0)	

* *RR*: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

**Race/ethnic groups only include respondents who selected a single race, except for Hispanic. For example, if a respondent only selected Asian then they are reported as Asian. If a respondent selected Asian and Hispanic then they are reported as Hispanic.

To see the specific percentages of the characteristics reported above by completion status and grade, see Appendix B: Student Characteristics by Completion.

6. All Completers Compared to All Respondents

Table 20 shows the differences in prevalence between all survey completers and the prevalence of all survey respondents for the same student characteristic questions assessed above.

Of the 67 comparison tests conducted, 27 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents who completed the survey are different from respondents from the full state sample for some of the characteristics assessed.

Survey completers in all schools were less likely than all respondents to report:

- Lower grades in school (grades 6 and 10)
- Variables indicating low economic status: no dental visits in past year (grade 10)
- Substance use current cigarette smoking (grades 6 and 10), binge drinking (grade 6), and current drinking (grade 6)
- Non-English spoken at home (all grades)

• Being Hispanic (grades 6, 10, and 12), Asian (grades 10 and 12), Black/African American (grades 6, 8, and 12), and Pacific Islander (grades 10 and 12)

Survey completers in all schools more likely than all respondents to report:

• Being white (all grades) and Asian (grade 6)

Table 20: Simulating non-completion bias with student characteristics among census schools, risk ratio (95% confidence interval)

	All Completers Compared to All Respondents by Grade			
	6	8	10	12
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*
School factors				
Low grades	0.7 (0.7-0.8)	1.0 (0.9-1.0)	0.9 (0.8-0.9)	1.0 (0.9-1.0)
Feeling unsafe at school	0.9 (0.9-1.0)	0.9 (0.9-1.0)	1.0 (0.9-1.0)	1.0 (0.9-1.1)
Indicators of low socioeconomic status				
Mother didn't graduate high school	na	1.0 (0.9-1.1)	1.0 (0.9-1.1)	1.0 (1.0-1.1)
Living situation due to finances	na	1.0 (0.9-1.1)	1.0 (0.9-1.1)	0.9 (0.8-1.0)
Food insecurity	na	1.0 (0.9-1.1)	1.0 (0.9-1.0)	1.0 (1.0-1.1)
No dental visit in last year	na	0.9 (0.9-1.0)	0.9 (0.8-1.0)	0.9 (0.8-1.0)
Receive free/reduced price lunch	na	1.0 (0.9-1.1)	1.0 (0.9-1.0)	1.0 (0.9-1.1)
Substance use factors				
Current cigarette smoking	0.5 (0.3-0.7)	1.0 (0.9-1.2)	0.9 (0.8-1.0)	1.0 (0.9-1.0)
Current marijuana use	0.8 (0.6-1.0)	0.9 (0.8-1.0)	1.0 (1.0-1.1)	1.0 (1.0-1.1)
Binge drinking	0.7 (0.5-0.8)	0.9 (0.8-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.1)
Current alcohol drinking	0.7 (0.6-0.9)	0.9 (0.8-1.0)	1.0 (1.0-1.1)	1.0 (0.9-1.1)
Race/ethnicity and language				
Non-English spoken at home	0.8 (0.7-0.8)	0.9 (0.9-1.0)	0.8 (0.8-0.9)	0.8 (0.8-0.9)
White	1.2 (1.2-1.3)	1.1 (1.0-1.1)	1.2 (1.2-1.3)	1.2 (1.1-1.2)
Hispanic	0.7 (0.7-0.8)	1.0 (1.0-1.1)	1.1 (1.0-1.2)	1.2 (1.1-1.2)
American Indian/Alaska Native	1.0 (0.9-1.1)	0.9 (0.8-1.1)	0.9 (0.8-1.1)	0.9 (0.7-1.1)
Asian	1.2 (1.1-1.3)	0.9 (0.8-1.0)	0.6 (0.6-0.7)	0.6 (0.5-0.7)
Black/African American	0.8 (0.7-0.9)	1.0 (0.9-1.1)	0.7 (0.6-0.8)	0.6 (0.5-0.8)
Pacific Islander	0.8 (0.7-1.0)	0.9 (0.7-1.1)	0.8 (0.6-0.9)	0.7 (0.5-0.9)

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

Findings

Yes, results for questions at the end of the survey were biased due to non-completion.

For the state sample respondents:

- 1. Non-completion rates ranged by grade from 14% to 29% (highest among 8th graders).
- 2. Respondents who completed the survey were less likely to report:
 - Lower grades in school (all grades) and feeling unsafe in school (all grades)
 - Variables indicating low economic status: mother didn't graduate high school (all grades), food insecurity (grade 10), no dental visits in past year (all grades), receive free/reduced lunch (all grades)
 - Substance use: cigarettes (grades 6 and 12), marijuana (all grades), binge drinking (grades 6 and 8), and alcohol use (grade 6)
 - Non-English spoken at home (all grades)
 - Being Hispanic (all grades), American Indian/Alaska Native (grades 6 and 10), Black/African American (grades 8, 10, and 12), and Pacific Islander (grade 8)

Respondents who did complete the survey were more likely to report:
Being white (all grades) and Asian (all grades)

- 3. Results near the end of the survey may not adequately represent the following students:
 - Those with lower grades in school grades 6, 8, and 10)
 - Their mother didn't graduate high school (grade 10) and no dental visits in past year (grade 8)
 - Non-English spoken at home (grades 6, 8, and 12)
 - Being Hispanic (all grades) and Black/African American (grade 8)

For all eligible respondents (census):

- 4. Non-completion rates ranged by grade from 14% to 24% (highest among 8th graders).
- 5. Respondents who completed the survey were less likely to report:
 - Lower grades in school (all grades) and feeling unsafe in school (all grades)
 - Variables indicating low economic status: mother didn't graduate high school (all grades), housing situation due to finances (grade 12), food insecurity (all grades), no dental visits in past year (all grades), receive free/reduced lunch (all grades)
 - Substance use current cigarettes, marijuana, alcohol, and binge drinking (all grades, except for current drinking among 12th graders)
 - Non-English spoken at home (all grades)
 - Being Hispanic (all grades), American Indian/Alaska Native (grades 6, 8, and 10), and Black/African American (all grades), and Pacific Islander (grade 8)

Respondents who did complete the survey were more likely to report:

- Being white (all grades) and Asian (all grades)
- 6. Results near the end of the survey may not adequately represent the following students:
 - Those with lower grades in school (grades 6 and 10)
 - No dental visits in past year (grade 10)
 - Current cigarette smoking (grades 6 and 10), binge drinking (grade 6), current drinking (grade 6)
 - Non-English spoken at home (all grades)
 - Being Hispanic (grades 6, 10, and 12), Asian (grades 10 and 12), Black/African American (grades 6, 8, and 12), and Pacific Islanders (grades 10 and 12)

There were some differences, but overall, respondents who did not complete the survey from the state sampled schools were similar to respondents who did not complete the survey from all eligible schools (census).

A description of questions at the end of the survey forms is available in Appendix B.

Questions

Are results for the optional questions biased because not all schools took them?

For the state sample:

- 1. What percent of respondents completed the optional questions?
- 2. Are respondents who responded to the optional questions different from those who did not?
- 3. Are all survey respondents different from those that responded to the optional questions?

For all participating schools (census):

- 4. What percent of respondents completed the optional questions?
- 5. Are respondents who responded to the optional questions different from those who did not?
- 6. Are all respondents different from those that responded to the optional questions?

Methods

"Optional question takers" are categorized as such if they answered the optional questions on "tear-off" page of the survey. Form A included one optional question on sexual orientation and Form B included one question on sexual orientation, four questions on sexual behavior, and one question on sexual abuse. "Optional question takers" are from schools that administered the optional questions. Respondents from these schools not answering the optional questions might have chosen to skip them or might not have gotten to the questions in the allotted time. Students are only counted as optional takers if they answered at least one optional question. "Non-optional question takers" are from schools that removed the optional questions by tearing them off the survey before administration.

We compared respondents based on questions assessing personal characteristics found early in the main body of the survey. The characteristics for student-level comparisons include student reports of:

- School factors
 - Low grades (mostly Cs, Ds or Fs at school)
 - Feeling unsafe at school (answers of "definitely no" or "mostly no" to a question about feeling safe at school)
- Indicators of low socioeconomic status
 - Mother not completing high school
 - Living situation due to family finances
 - Food insecurity (family cutting meal size or skipping meals in past 12 months due of lack of money)
 - No recent dental visit (not visiting dentist for a check-up in the past year)
 - Receive free or reduced-price lunch at school
- Behavioral factors
 - Cigarette smoking (any cigarette smoking in the past 30 days)
 - Marijuana smoking (having ever smoked marijuana)
 - Binge drinking (drinking 5 or more drinks on any one occasion in the past two weeks)

- Drinking alcohol (drinking any alcohol in the past 30 days)
- Race and ethnicity
 - Race and Hispanic ethnicity
 - Non-English language spoken at home

We conducted separate analyses by grade. We developed risk ratios to assess differences between categories of participants. A risk ratio compares rates among groups. For example, if 15% of optional takers and 30% of survey non-optional takers reported getting low grades, we would report a risk ratio of 0.5, meaning that optional takers were half as likely as non-optional takers to have low grades. For every risk ratio, we also provide a "95% confidence interval," which gives the range that should contain the true population value 95% of the time. The confidence interval is not a measure of how "confident" we are in the estimate; instead, it describes the range of values that we might reasonably expect to include the actual risk ratio among all Washington State respondents. If the confidence interval includes 1, the two groups are not statistically significantly different.

Comparisons are of respondents who answered optional questions compared to those that did not answer optional questions.

We conducted a second set of analyses to determine the potential magnitude of this bias on the optional questions. Four optional questions on sexual behavior were at the end of the survey, so bias on these results might be due to non-completion bias.

We took a close look at how much we might expect non-completion of optional questions to influence grade-level surveys results. We compared the prevalence of responses for all the optional questions from the full state sample to the prevalence of a subset that included only survey completers:

- "Optional Takers" answered at least one optional question (sexual orientation, sexual behavior and/or sexual abuse).
- "Full state sample" all respondents in the state sample.

By excluding non-completers from the subset, we simulate the extent of bias that would occur if these questions were non-optional. These same analyses were completed for census schools.

Results

1. Optional Question Participation Rates in the State Sample

Table 21a shows the percent of respondents that took the survey forms that had optional questions. Table 21b shows the percent of "Optional Takers – respondents that took the survey forms that had optional questions and answered at least one optional question (sexual orientation, sexual behavior and/or sexual abuse).

Grade	n	Answered Form with Optional Questions (%)
8	43	67.2%
10	39	70.9%
12	42	70.0%

Table 21a: Optional question participation rates for state sample schools

Table 21b: Percent of O	ptional Question Takers*	for state sample schools
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Grade	n	Optional Question Takers* (%)
8	3,828	44.2%
10	7,105	65.6%
12	5,038	66.4%

* Respondents from schools that administered the optional questions and answered at least one optional question (sexual orientation, sexual behavior and/or sexual abuse. 15% of 8th graders, 9% of 10th graders and 8% of 12 graders did not answer at least one option question and are not included in these analyses.

For more information about survey non-completion for each individual survey question by grade level and form type, see Appendix A: Non-completion by Form Type and Grade.

2. Optional Takers Compared to Non-Optional Takers in the State Sample

Table 22 gives risk ratios for characteristics listed above comparing respondents in the state sample who answered at least one optional question to those who did not.

Of the 54 comparison tests conducted, 25 showed statistically significant differences. The results show that optional question takers have some variable risks compared to respondents who did not take the optional questions.

Optional question takers in the state sample were less likely than respondents who did not take the optional questions to report:

- Lower grades in school (all grades) and feeling unsafe at school (grade 10)
- Socioeconomic indicators mother didn't graduate high school (grades 10 and 12), food insecurity (grade 10), no dental visit in last year (grades 8 and 10), receives free/reduced lunch (grades 10 and 12)
- Non-English spoken at home (grades 10 and 12)
- Being Hispanic (grades 10 and 12), American Indian/Alaska Native (grade 10), Black/African American (grades 10 and 12), and Pacific Islander (grade 12)

Optional question takers in the state sample were more likely to report:

- Being White (grades 10 and 12) and being Asian (grade 8)
- Substance use binge drinking (grade 12) and current alcohol drinking (grades 10 and 12)

	Answering Optional Questions Compared to those that Did No Answer Them by Grade			
Variable	8 RR (95% CI)*	10 RR (95% CI)*	12 CI)* RR (95% CI)*	
School factors				
Low grades	0.9 (0.8-1.0)	0.7 (0.7-0.8)	0.9 (0.8-1.0)	
Feeling unsafe at school	1.1 (0.9-1.2)	0.8 (0.7-0.9)	1.0 (0.8-1.1)	
Indicators of low socioeconomic status				
Mother didn't graduate high school	1.0 (0.8-1.1)	0.8 (0.7-0.9)	0.8 (0.7-0.9)	
Living situation due to finances	1.0 (0.8-1.2)	0.9 (0.8-1.1)	1.0 (0.8-1.2)	
Food insecurity	1.0 (0.9-1.2)	0.9 (0.8-1.0)	1.0 (0.8-1.2)	
No dental visit in last year	0.8 (0.7-0.9)	0.7 (0.6-0.8)	0.9 (0.8-1.1)	
Receive free/reduced price lunch	1.0 (0.9-1.2)	0.7 (0.6-0.8)	0.8 (0.7-0.9)	
Substance use factors				
Current cigarette smoking	1.2 (0.9-1.5)	1.1 (0.9-1.3)	1.1 (0.9-1.3)	
Current marijuana use	1.0 (0.8-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.2)	
Binge drinking	1.2 (0.9-1.5)	1.0 (0.9-1.2)	1.2 (1.1-1.4)	
Current alcohol drinking	1.1 (1.0-1.3)	1.2 (1.1-1.3)	1.2 (1.1-1.4)	
Race/ethnicity and language				
Non-English spoken at home	1.0 (0.9-1.1)	0.7 (0.6-0.8)	0.7 (0.6-0.8)	
White	1.0 (1.0-1.1)	1.5 (1.4-1.7)	1.4 (1.3-1.6)	
Hispanic	1.0 (0.9-1.1)	0.7 (0.6-0.7)	0.7 (0.7-0.8)	
American Indian/Alaska Native	1.0 (0.8-1.2)	0.6 (0.5-0.8)	1.0 (0.7-1.5)	
Asian	1.2 (1.0-1.4)	1.2 (1.0-1.4)	1.0 (0.8-1.3)	
Black/African American	0.9 (0.7-1.1)	0.7 (0.6-0.9)	0.5 (0.4-0.7)	
Pacific Islander	0.9 (0.7-1.2)	0.8 (0.6-1.1)	0.7 (0.4-1.0)	

Table 22: Answering optional questions and student characteristics for the state sample, risk ratio (95% confidence interval)

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

**Race/ethnic groups only include respondents who selected a single race, except for Hispanic. For example, if a respondent only selected Asian then they are reported as Asian. If a respondent selected Asian and Hispanic then they are reported as Hispanic.

3. State Sample Optional Question Takers Compared to All State Sample Respondents

Table 23 shows the differences in prevalence between state sample optional question takers and the prevalence of all state sample respondents for the same student characteristic questions assessed above.

Of the 54 comparison tests conducted, 7 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents who completed the optional questions are different from respondents from the full state sample for some of the characteristics assessed. The results were mixed, with optional question takers sometimes having more risk and sometimes having less risk than all state sample respondents.

Optional question takers in the state sample were less likely than respondents in the full state sample to report:

- Lower grades in school (grade 10)
- Socioeconomic indicators mother didn't graduate high school (grade 10)

- Non-English spoken at home (grades 10 and 12)
- Being Hispanic (grades 10 and 12) and Black/African American (grade 12)

Optional question takers in the state sample were more likely to report:

• Being White (grades 10 and 12)

Table 23: Simulating optional question taking bias with student characteristics among state sample schools, risk ratio (95% confidence interval) by grade.

	Answering Optional Questions Compared to those that Did Not Answer Them by Grade			
Variable	8 10 RR (95% CI)* RR (95% CI)*		12 RR (95% CI)*	
School factors				
Low grades	0.9 (0.8-1.0)	0.9 (0.8-1.0)	1.0 (0.9-1.0)	
Feeling unsafe at school	1.0 (0.9-1.1)	0.9 (0.9-1.0)	1.0 (0.9-1.1)	
Indicators of low socioeconomic status				
Mother didn't graduate high school	1.0 (0.9-1.1)	0.9 (0.8-1.0)	0.9 (0.8-1.0)	
Living situation due to finances	1.0 (0.8-1.2)	1.0 (0.8-1.1)	1.0 (0.9-1.2)	
Food insecurity	1.0 (0.9-1.1)	1.0 (0.9-1.0)	1.0 (0.9-1.1)	
No dental visit in last year	0.9 (0.8-1.0)	0.9 (0.8-1.0)	1.0 (0.9-1.1)	
Receive free/reduced price lunch	1.0 (0.9-1.1)	0.9 (0.8-1.0)	0.9 (0.8-1.0)	
Substance use factors		·		
Current cigarette smoking	1.1 (0.9-1.4)	1.0 (0.9-1.2)	1.0 (0.9-1.2)	
Current marijuana use	1.0 (0.8-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.1)	
Binge drinking	1.1 (0.9-1.3)	1.0 (0.9-1.1)	1.1 (1.0-1.2)	
Current alcohol drinking	1.1 (0.9-1.2)	1.1 (1.0-1.1)	1.1 (1.0-1.2)	
Race/ethnicity and language				
Non-English spoken at home	1.0 (0.9-1.1)	0.9 (0.8-1.0)	0.9 (0.8-1.0)	
White	1.0 (0.9-1.1)	1.2 (1.1-1.2)	1.1 (1.0-1.2)	
Hispanic	1.0 (0.9-1.1)	0.9 (0.8-0.9)	0.9 (0.8-1.0)	
American Indian/Alaska Native	1.0 (0.8-1.2)	0.8 (0.7-1.0)	1.0 (0.8-1.3)	
Asian	1.1 (1.0-1.3)	1.1 (0.9-1.2)	1.0 (0.8-1.2)	
Black/African American	0.9 (0.8-1.1)	0.9 (0.7-1.1)	0.8 (0.6-1.0)	
Pacific Islander	0.9 (0.7-1.2)	0.9 (0.7-1.2)	0.8 (0.6-1.2)	

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

4. Optional Question Participation Rates in Census Schools

Table 24a shows the percent of respondents that took the survey forms that had optional questions. Table 24b shows the percent of "Optional Takers – respondents that took the survey forms that had optional questions and answered at least one optional question (sexual orientation, sexual behavior and/or sexual abuse).

Grade	n	Answered Form with Optional Questions (%)	
8	304	67.9%	
10	306	74.8%	
12	299	74.2%	

Table 24a: Optional question participation rates for census schools

Table 24b: Percent of Optional Question Takers* for census schools

Grade	n	Optional Question Takers* (%)
8	32,733	52.4%
10	36,037	64.8%
12	26,093	66.9%

* Respondents from schools that administered the optional questions and answered at least one optional question (sexual orientation, sexual behavior and/or sexual abuse. 15% of 8th graders, 11% of 10th graders and 9% of 12 graders did not answer at least one option question and are not included in these analyses.

For more information about survey non-completion for each individual survey question by grade level and form type, see Appendix A: Non-completion by Form Type and Grade.

5. Optional Question Takers Compared to All Respondents

Table 25 gives risk ratios for characteristics listed above comparing respondents in census schools who answered at least one optional question to those who did not.

Of the 54 comparison tests conducted, 35 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents who completed optional questions are different from respondents that did not fill out the optional questions for the characteristics assessed. The results were mixed, with optional question takers sometimes having more risk and sometimes having less risk than respondents who did not take the optional questions.

Optional question takers in all schools were less likely to report:

- Lower grades in school (all grades) and feeling unsafe at school (all grades)
- Socioeconomic indicators mother didn't graduate high school (all grades), food insecurity (grade 12), no dental visit in last year (all grades), receives free/reduced lunch (grades 8 and 10)
- Substance use current cigarette smoking (grade 10) and marijuana use (grade 8)
- Non-English spoken at home (all grades)
- Being Hispanic (all grades), American Indian/Alaska Native (grades 8 and 10), and Black/African American (all grades)

Optional question takers were more likely to report:

- Being White (all grades), being Asian (grade 8), and Pacific Islander (grade 12)
- Substance use current alcohol drinking (grades 10 and 12)

Table 25: Answering optional questions and student characteristics for census schools, risk ratio (95% confidence interval).

	Answering Optional Questions Compared to those that Did Not Answer Them by Grade			
Variable	8 RR (95% CI)*	10 RR (95% CI)*	12 RR (95% CI)*	
School factors				
Low grades	0.7 (0.7-0.8)	0.8 (0.8-0.8)	0.8 (0.8-0.9)	
Feeling unsafe at school	0.9 (0.9-1.0)	0.9 (0.8-0.9)	0.9 (0.8-0.9)	
Indicators of low socioeconomic status				
Mother didn't graduate high school	0.8 (0.7-0.8)	0.9 (0.9-1.0)	0.9 (0.9-1.0)	
Living situation due to finances	1.0 (0.9-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.1)	
Food insecurity	1.0 (0.9-1.0)	1.0 (0.9-1.0)	0.9 (0.9-1.0)	
No dental visit in last year	0.8 (0.8-0.8)	0.8 (0.8-0.9)	0.9 (0.9-1.0)	
Receive free/reduced price lunch	0.8 (0.7-0.8)	0.9 (0.9-1.0)	1.0 (0.9-1.1)	
Substance use factors				
Current cigarette smoking	1.0 (0.9-1.1)	0.9 (0.8-1.0)	1.0 (0.9-1.0)	
Current marijuana use	0.9 (0.8-1.0)	1.0 (0.9-1.0)	1.0 (1.0-1.1)	
Binge drinking	1.0 (0.9-1.0)	1.0 (1.0-1.1)	1.0 (1.0-1.1)	
Current alcohol drinking	1.0 (0.9-1.0)	1.1 (1.0-1.1)	1.1 (1.0-1.1)	
Race/ethnicity and language				
Non-English spoken at home	0.9 (0.8-0.9)	0.9 (0.9-1.0)	0.9 (0.9-1.0)	
White	1.2 (1.2-1.2)	1.2 (1.1-1.2)	1.1 (1.1-1.2)	
Hispanic	0.8 (0.7-0.8)	0.9 (0.8-0.9)	0.9 (0.9-1.0)	
American Indian/Alaska Native	0.8 (0.7-0.9)	0.8 (0.7-0.8)	0.9 (0.8-1.1)	
Asian	1.3 (1.3-1.4)	1.1 (1.0-1.1)	1.1 (1.0-1.1)	
Black/African American	0.8 (0.8-0.9)	0.9 (0.8-0.9)	0.8 (0.7-0.9)	
Pacific Islander	1.0 (0.9-1.1)	1.1 (0.9-1.2)	1.2 (1.0-1.5)	

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

**Race/ethnic groups only include respondents who selected a single race, except for Hispanic. For example, if a respondent only selected Asian then they are reported as Asian. If a respondent selected Asian and Hispanic then they are reported as Hispanic.

6. Optional Question Takers Compared to Non-Optional Question Takers in Census Schools

Table 26 gives risk ratios for characteristics listed above comparing respondents in census schools who answered at least one optional question to those who did not.

Of the 54 comparison tests conducted, 18 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents who completed optional questions are different from respondents that did not fill out the optional questions for the characteristics assessed. The results were mixed, but only among 8th grade optional question takers sometimes having more risk and sometimes having less risk than census respondents.

Optional question takers in all schools were less likely to report:

- Lower grades in school (all grades) and feeling unsafe at school (grade 10)
- Socioeconomic indicators mother didn't graduate high school (grade 8), no dental visit in last year (grades 8 and 10), receives free/reduced lunch (grade 8)

- Non-English spoken at home (grade 8)
- Being Hispanic (grades 8 and 10), American Indian/Alaska Native (grades 8 and 10), and Black/African American (grade 12)

Optional question takers were more likely to report:

• Being White (all grades) and being Asian (grade 8)

Table 26: Simulating optional question taking bias with student characteristics for census schools, risk ratio (95% confidence interval) by grade.

	Answering Optional Questions Compared to those that Did Not Answer Them by Grade			
Variable	8 RR (95% CI)*	10 RR (95% CI)*	12 CI)* RR (95% CI)*	
School factors				
Low grades	0.9 (0.8-0.9)	0.9 (0.9-1.0)	0.9 (0.9-1.0)	
Feeling unsafe at school	1.0 (0.9-1.0)	0.9 (0.9-1.0)	1.0 (0.9-1.0)	
Indicators of low socioeconomic status		·		
Mother didn't graduate high school	0.9 (0.8-0.9)	1.0 (0.9-1.0)	1.0 (0.9-1.0)	
Living situation due to finances	1.0 (0.9-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.1)	
Food insecurity	1.0 (1.0-1.0)	1.0 (1.0-1.0)	1.0 (0.9-1.0)	
No dental visit in last year	0.9 (0.9-0.9)	0.9 (0.9-1.0)	1.0 (0.9-1.0)	
Receive free/reduced price lunch	0.9 (0.9-0.9)	1.0 (0.9-1.0)	1.0 (0.9-1.0)	
Substance use factors		·		
Current cigarette smoking	1.0 (0.9-1.1)	1.0 (0.9-1.0)	1.0 (0.9-1.0)	
Current marijuana use	0.9 (0.9-1.0)	1.0 (1.0-1.0)	1.0 (1.0-1.0)	
Binge drinking	1.0 (0.9-1.0)	1.0 (1.0-1.1)	1.0 (1.0-1.1)	
Current alcohol drinking	1.0 (0.9-1.0)	1.0 (1.0-1.1)	1.0 (1.0-1.1)	
Race/ethnicity and language				
Non-English spoken at home	0.9 (0.9-1.0)	1.0 (0.9-1.0)	1.0 (0.9-1.0)	
White	1.1 (1.1-1.1)	1.1 (1.0-1.1)	1.0 (1.0-1.1)	
Hispanic	0.9 (0.9-0.9)	1.0 (0.9-1.0)	1.0 (0.9-1.0)	
American Indian/Alaska Native	0.9 (0.8-1.0)	0.9 (0.8-1.0)	1.0 (0.9-1.1)	
Asian	1.1 (1.1-1.2)	1.0 (1.0-1.1)	1.0 (1.0-1.1)	
Black/African American	0.9 (0.9-1.0)	0.9 (0.9-1.0)	0.9 (0.9-1.0)	
Pacific Islander	1.0 (0.9-1.1)	1.0 (0.9-1.1)	1.1 (0.9-1.2)	

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

Yes, results for the optional questions were somewhat biased because not all schools administered them.

For the state sample respondents:

- Optional questions were asked of 67% of 8th graders, 71% of 10th graders and 70% of 12th graders.
- 2. Optional question takers were less likely to report:
 - Lower grades in school (all grades) and feeling unsafe at school (grade 10)
 - Socioeconomic indicators mother didn't graduate high school (grades 10 and 12), food insecurity (grade 10), no dental visit in last year (grades 8 and 10), receives free/reduced lunch (grades 10 and 12)
 - Non-English spoken at home (grades 10 and 12)
 - Being Hispanic (grades 10 and 12), American Indian/Alaska Native (grade 10), Black/African American (grades 10 and 12), and Pacific Islander (grade 12)

Optional question takers were more likely to report:

- Binge drinking (grade 12) and current alcohol drinking (grades 10 and 12)
- Being white (grades 10 and 12) and being Asian (grade 8)
- 3. Optional question results may not adequately represent the following students:
 - Those with lower grades in school (grade 10)
 - Their mother didn't graduate from high school (grade 10)
 - Non-English language spoken at home (grades 10 and 12)
 - Hispanics (grades 10 and 12) and Black/African Americans (grade 12)

For all eligible respondents (census):

- 1. Optional questions were asked of 68% of 8th graders, 75% of 10th, and 74% of 12th graders.
- 4. Optional question takers were less likely to report:
 - Lower grades in school (all grades) and feeling unsafe at school (all grades)
 - Socioeconomic indicators mother didn't graduate high school (all grades), food insecurity (grade 12), no dental visit in last year (all grades), receives free/reduced lunch (grades 8 and 10)
 - Substance use current cigarette smoking (grade 10) and marijuana use (grade 8)
 - Non-English spoken at home (all grades)
 - Being Hispanic (all grades), American Indian/Alaska Native (grades 8 and 10), and Black/African American (all grades)

Optional question takers were more likely to report:

- Being White (all grades), being Asian (grade 8), and Pacific Islander (grade 12)
- Substance use current alcohol drinking (grades 10 and 12)
- 2. Optional question results may not adequately represent the following students:
 - Lower grades in school (all grades) and feeling unsafe at school (grade 10)
 - Socioeconomic indicators mother didn't graduate high school (grade 8), no dental visit in last year (grades 8 and 10), receives free/reduced lunch (grade 8)
 - Non-English spoken at home (grade 8)
 - Being Hispanic (grades 8 and 10), American Indian/Alaska Native (grades 8 and 10), and Black/African American (grade 12)

There were some differences, but overall, respondents who took the optional questions from the state sampled schools were similar to respondents from all sampled schools. Some of the student level differences between those who took and did not take the optional questions appear to be due to survey non-completion.

Questions

Are respondents in the state sample different from respondents from all eligible schools (census)?

- 1. Is student reported race/ethnicity similar to school reported race/ethnicity (obtained from parents/guardians)?
- 2. Is student reported race/ethnicity in the state sample similar to all eligible schools (census)?
- 3. Are race/ethnic group student responses to questions in the state sample similar to responses in all eligible schools (census)?

Methods

On the HYS students select the races and or ethnicity that best describes them. They can select multiple responses. These responses are collapsed into the following categories:

- White non-Hispanic
- Hispanic
- American Indian/Alaska Native non-Hispanic
- Asian non-Hispanic
- Black/African American non-Hispanic
- Pacific Islander non-Hispanic
- Other race non-Hispanic
- Multiracial non-Hispanic (if selected two or more race groups)

Schools* collect similar data on race/ethnicity, except it does not have data on "other race." As a first step the race/ethnicity results from HYS were compared to the school data. *School reported race/ethnicity provided by OSPI, http://www.k12.wa.us/DataAdmin/enrollment.aspx

A simple t-test was used to determine if there were significant differences between student and school reported race/ethnicity.

We compared respondents based on questions assessing personal characteristics found early in the main body of the survey. The characteristics for student-level comparisons include student reports of:

- School factors
 - Low grades (mostly Cs, Ds or Fs at school)
 - Feeling unsafe at school (answers of "definitely no" or "mostly no" to a question about feeling safe at school)
- Indicators of low socioeconomic status
 - Mother not completing high school
 - Living situation due to family finances
 - Food insecurity (family cutting meal size or skipping meals in past 12 months due of lack of money)
 - No recent dental visit (not visiting dentist for a check-up in the past year)
 - Receive free or reduced price lunch at school
- Behavioral factors

- Cigarette smoking (any cigarette smoking in the past 30 days)
- Marijuana smoking (having ever smoked marijuana)
- o Binge drinking (drinking 5 or more drinks on any one occasion in the past two weeks)
- Drinking alcohol (drinking any alcohol in the past 30 days)
- Race and ethnicity
 - Race and Hispanic ethnicity
 - Non-English language spoken at home
 - Sexual behavior and sexual orientation
 - Ever had sex
 - o Describe themselves as gay, lesbian, bisexual, or questioning

We conducted separate analyses by grade. We developed risk ratios to assess differences between categories of participants. A risk ratio compares rates among groups. For every risk ratio, we also provide a "95% confidence interval," which gives the range that should contain the true population value 95% of the time. The confidence interval is not a measure of how "confident" we are in the estimate; instead, it describes the range of values that we might reasonably expect to include the actual risk ratio among all Washington State respondents. If the confidence interval includes 1, the two groups are not statistically significantly different.

Comparisons are of respondents in the state sample schools compared to census school respondents.

Results

1. Comparing Student and School Reported Race/Ethnicity

Student reported race/ethnicity was different from school reported race/ethnicity. In general, student report more closely matched school report as grade increased. To see a comparison for each race/ethnic group by grade as reported by students and schools in state sample and schools in the census, see Appendix E.

Table 28 is the average difference between how students reported race and how schools reported race. Students are less likely to report that they are white non-Hispanic, Hispanic and multi-racial non-Hispanic, but more likely to report that they are American Indian/Alaska Native non-Hispanic, Asian non-Hispanic, Black/African American non-Hispanic, and Pacific Islander non-Hispanic compared to schools. HYS allows students to report "other race", which may be a factor in the differences between student and school reports.

Average difference	State Sample	Census
White non-Hispanic	-10.0	-9.9
Hispanic	-2.8	-2.8
American Indian/Alaska Native non-Hispanic	2.5	2.3
Asian non-Hispanic	0.8	0.8
Black/African American non-Hispanic	0.4	0.5
Pacific Islander non-Hispanic	0.8	0.9
Multi-racial non-Hispanic	-0.6	-0.9

Table 28. Average difference between student HYS report and school report of race/ethnicity

While students and school report race/ethnicity differently, there were no differences between the state sample schools compared to census schools in how students reported race/ethnicity.

2. State Sample Respondents Compared to Census Respondents

Tables 28a-i gives risk ratios for characteristics listed above comparing respondents in the state sample to respondents in census schools, first for all respondents and then by each race/ethnic group.

Of the 504 comparison tests conducted, 34 showed statistically significant differences:

- Two among all students
- Four among white non-Hispanic students
- Three among Hispanic students
- Three among American Indian/Alaska Native non-Hispanic students
- Eight among Asian non-Hispanic students
- One among Black/African American non-Hispanic students
- Two among Pacific Islander non-Hispanic students
- Four among other race non-Hispanic students
- Five among multi-racial non-Hispanic students

Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents in the state sample are different from census school respondents for the characteristics assessed

To see student level characteristics for each race/ethnic group by grade for the state sample the census, see Appendix F.

All Students

Of the 54 comparison tests conducted, 2 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents in the state sample are different from census school respondents for the characteristics assessed.

Census respondents were more likely than state sample respondents to report:

• Substance use – current alcohol drinking (grade 6) and binge drinking (grade 6)

Table 29a: Student characteristics for state sample compared to census schools, risk ratio (95%)
confidence interval)

	State Sample Compared to Census by Grade			
	6	8	10	12
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*
Indicators of low socioeconomic sta	itus			
Non-English spoken at home	1.2 (1.0-1.5)	1.0 (0.7-1.3)	1.1 (0.8-1.4)	1.1 (0.8-1.5)
Mother didn't graduate high				
school	na	0.9 (0.7-1.1)	0.9 (0.7-1.2)	0.9 (0.7-1.2)
Living situation due to finances	na	1.0 (0.9-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.2)
Food insecurity	na	1.0 (0.9-1.1)	1.0 (0.9-1.1)	0.9 (0.8-1.1)
No dental visit in last year	na	0.9 (0.8-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.2)
School-related measures				
Low grades in school	1.1 (1.0-1.3)	0.9 (0.8-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.1)
Unsafe at school	1.0 (0.9-1.2)	1.0 (0.9-1.1)	1.0 (0.9-1.1)	1.0 (0.8-1.1)
Bullied at school	1.0 (1.0-1.1)	1.0 (0.9-1.1)	1.1 (1.0-1.1)	1.0 (0.9-1.1)
Carried weapons at school	1.1 (1.0-1.2)	1.0 (0.9-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.1)
Substance use factors				
Current cigarette smoking	1.3 (1.0-1.8)	1.0 (0.8-1.1)	1.1 (0.9-1.2)	1.0 (0.9-1.2)
Current marijuana use	1.1 (0.8-1.5)	1.0 (0.8-1.1)	0.9 (0.8-1.0)	1.0 (0.9-1.0)
Current alcohol drinking	1.2 (1.0-1.5)	1.0 (0.9-1.2)	1.0 (0.9-1.0)	1.0 (0.9-1.1)
Binge drinking	1.3 (1.0-1.5)	1.0 (0.9-1.2)	1.0 (0.9-1.1)	1.0 (0.9-1.1)
Sexual Behavior and Orientation				
Ever had sex	na	1.0 (0.8-1.3)	0.9 (0.8-1.1)	0.9 (0.8-1.0)
Gay, lesbian, bisexual, questioning	na	1.1 (1.0-1.2)	1.0 (0.9-1.1)	1.1 (1.0-1.2)

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

White non-Hispanic Students

Of the 54 comparison tests conducted, 4 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents in the state sample are different from census respondents for the characteristics assessed.

Census white non-Hispanic respondents were more likely than state sample respondents to report:

- Non-English language spoken at home (grades 8, 10 and 12)
- Describing themselves as gay, lesbian, bisexual or questioning (grade 8)

Table 29b: White non-Hispanic student characteristics for state sample compared census schools, risk
ratio (95% confidence interval)

	State Sample Compared to Census by Grade					
	6	8	10	12		
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*		
Indicators of low socioeconomic status						
Non-English spoken at home	1.2 (0.9-1.6)	1.3 (1.0-1.7)	1.5 (1.2-1.9)	1.4 (1.1-1.8)		
Mother didn't graduate high						
school	na	1.0 (0.8-1.2)	1.0 (0.8-1.1)	1.1 (0.9-1.3)		
Living situation due to finances	na	0.9 (0.8-1.1)	1.0 (0.9-1.2)	1.0 (0.9-1.2)		
Food insecurity	na	1.1 (0.9-1.3)	1.0 (0.9-1.2)	0.9 (0.8-1.1)		
No dental visit in last year	na	0.9 (0.8-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.2)		
School-related measures						
Low grades in school	1.1 (1.0-1.3)	1.1 (0.9-1.3)	1.1 (0.9-1.2)	1.0 (0.9-1.2)		
Unsafe at school	1.0 (0.9-1.2)	1.0 (0.8-1.2)	1.0 (0.9-1.2)	1.0 (0.8-1.1)		
Bullied at school	1.1 (1.0-1.2)	1.0 (0.9-1.2)	1.1 (1.0-1.2)	1.0 (0.9-1.1)		
Carried weapons at school	1.2 (1.0-1.5)	1.0 (0.8-1.1)	1.0 (0.8-1.2)	1.0 (0.8-1.2)		
Substance use factors						
Current cigarette smoking	1.3 (0.8-2.0)	0.9 (0.8-1.2)	1.1 (1.0-1.3)	1.0 (0.9-1.2)		
Current marijuana use	1.2 (0.8-1.8)	1.1 (0.9-1.3)	1.0 (0.9-1.1)	1.0 (0.9-1.1)		
Current alcohol drinking	1.2 (0.9-1.5)	1.0 (0.9-1.2)	1.0 (0.9-1.1)	1.0 (0.9-1.1)		
Binge drinking	1.3 (0.9-1.8)	0.9 (0.8-1.1)	1.0 (0.9-1.1)	1.0 (0.9-1.1)		
Sexual Behavior and Orientation						
Ever had sex	na	1.1 (0.8-1.5)	1.0 (0.8-1.1)	1.0 (0.9-1.1)		
Gay, lesbian, bisexual, questioning	na	1.2 (1.0-1.3)	1.0 (0.9-1.1)	1.0 (0.9-1.2)		

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

Hispanic Students

Of the 54 comparison tests conducted, 3 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents in the state sample are different from census school respondents for the characteristics assessed.

Census Hispanic respondents were more likely than state sample respondents to report:

• Describing themselves as gay, lesbian, bisexual or questioning (grade 12)

Census Hispanic respondents were less likely than state sample respondents to report:

- Low grades in school (grade 8)
- Carrying weapons at school (grade 6)

Table 29c: Hispanic student characteristics for state sample compared to census schools, risk ratio (95% confidence interval)

	State Sample Compared to Census by Grade					
	6	8	10	12		
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*		
Indicators of low socioeconomic status						
Non-English spoken at home	1.1 (0.9-1.4)	0.9 (0.7-1.1)	0.9 (0.8-1.1)	1.0 (0.8-1.2)		
Mother didn't graduate high						
school	na	0.9 (0.7-1.1)	1.0 (0.8-1.2)	0.9 (0.7-1.1)		
Living situation due to finances	na	1.0 (0.9-1.3)	1.0 (0.9-1.2)	1.1 (0.9-1.3)		
Food insecurity	na	1.0 (0.9-1.2)	1.1 (1.0-1.2)	1.0 (0.9-1.1)		
No dental visit in last year	na	0.9 (0.8-1.1)	1.1 (0.9-1.2)	1.1 (0.9-1.3)		
School-related measures						
Low grades in school	1.1 (0.9-1.3)	0.8 (0.7-1.0)	1.0 (0.9-1.1)	1.1 (0.9-1.2)		
Unsafe at school	0.9 (0.7-1.0)	1.1 (0.9-1.3)	1.0 (0.9-1.1)	1.0 (0.8-1.1)		
Bullied at school	1.0 (0.9-1.1)	1.0 (0.9-1.1)	1.1 (1.0-1.2)	1.1 (0.9-1.2)		
Carried weapons at school	0.8 (0.7-1.0)	1.0 (0.8-1.2)	1.0 (0.8-1.1)	1.0 (0.8-1.2)		
Substance use factors						
Current cigarette smoking	1.1 (0.6-1.9)	1.0 (0.8-1.4)	1.1 (0.9-1.3)	1.1 (1.0-1.4)		
Current marijuana use	0.9 (0.6-1.3)	1.0 (0.8-1.2)	1.0 (0.9-1.1)	1.0 (0.9-1.1)		
Current alcohol drinking	1.2 (0.8-1.7)	1.0 (0.8-1.3)	1.1 (0.9-1.2)	1.1 (1.0-1.2)		
Binge drinking	1.1 (0.8-1.7)	1.1 (0.9-1.4)	1.0 (0.9-1.2)	1.0 (0.9-1.2)		
Sexual Behavior and Orientation						
Ever had sex	na	0.9 (0.6-1.4)	0.9 (0.8-1.0)	0.9 (0.8-1.0)		
Gay, lesbian, bisexual, questioning	na	1.1 (0.9-1.3)	1.0 (0.9-1.2)	1.2 (1.0-1.4)		

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

American Indian/Alaska Native non-Hispanic Students

Of the 54 comparison tests conducted, 2 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents in the state sample are different from census school respondents for the characteristics assessed.

Census AI/AN respondents were more likely than state sample respondents to report:

• Non-English language spoken at home (grade 6)

Census AI/AN respondents were less likely than state sample respondents to report:

• Low grades in school (grade 10)

Table 29d: American Indian/Alaska Native non-Hispanic student characteristics for state sample compared to census schools, risk ratio (95% confidence interval)

-							
	State Sample Compared to Census by Grade						
	6	8	10	12			
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*			
Indicators of low socioeconomic sta	Indicators of low socioeconomic status						
Non-English spoken at home	1.4 (1.0-2.0)	0.9 (0.6-1.3)	1.2 (0.8-1.8)	1.0 (0.6-1.6)			
Mother didn't graduate high							
school	na	0.9 (0.6-1.2)	1.0 (0.7-1.3)	1.0 (0.6-1.5)			
Living situation due to finances	na	0.8 (0.6-1.2)	1.1 (0.7-1.7)	0.9 (0.5-1.6)			
Food insecurity	na	0.9 (0.6-1.2)	1.0 (0.7-1.2)	1.1 (0.8-1.6)			
No dental visit in last year	na	1.0 (0.7-1.4)	0.9 (0.6-1.3)	0.9 (0.6-1.3)			
School-related measures							
Low grades in school	1.1 (0.9-1.3)	1.0 (0.8-1.3)	0.8 (0.6-1.0)	0.9 (0.7-1.2)			
Unsafe at school	1.0 (0.8-1.2)	1.0 (0.8-1.3)	1.1 (0.8-1.5)	0.7 (0.5-1.0)			
Bullied at school	1.2 (1.0-1.4)	1.0 (0.8-1.2)	0.9 (0.8-1.2)	0.9 (0.6-1.3)			
Carried weapons at school	1.0 (0.7-1.4)	1.5 (0.9-2.5)	1.0 (0.7-1.4)	1.1 (0.6-1.9)			
Substance use factors							
Current cigarette smoking	1.9 (0.8-4.9)	0.9 (0.6-1.4)	1.1 (0.8-1.6)	1.3 (0.9-1.8)			
Current marijuana use	1.0 (0.5-1.8)	1.0 (0.7-1.3)	1.0 (0.7-1.2)	1.1 (0.8-1.5)			
Current alcohol drinking	1.1 (0.7-1.8)	1.0 (0.7-1.4)	1.0 (0.8-1.3)	1.0 (0.7-1.4)			
Binge drinking	1.7 (1.0-3.0)	0.8 (0.5-1.2)	0.9 (0.7-1.2)	1.1 (0.8-1.5)			
Sexual Behavior and Orientation							
Ever had sex	na	1.6 (0.7-3.4)	0.7 (0.5-1.0)	1.0 (0.6-1.6)			
Gay, lesbian, bisexual, questioning	na	0.8 (0.6-1.0)	0.9 (0.7-1.2)	1.1 (0.7-1.7)			

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

Asian non-Hispanic Students

Of the 59 comparison tests conducted, 6 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents in the state sample are different from census school respondents for the characteristics assessed.

Census Asian respondents were more likely than state sample respondents to report:

• Non-English language spoken at home (grade 10)

Census Asian respondents were less likely than state sample respondents to report:

- Low grades in school (grades 8 and 12)
- Feeling unsafe at school (grade 12)
- Current cigarette smoking (grade 12)
- Ever having sex (grade 12)

Table 29e: Asian non-Hispanic student characteristics for state sample compared to census schools, risk ratio (95% confidence interval)

	State Sample Compared to Census by Grade						
	6	8	10	12			
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*			
Indicators of low socioeconomic status							
Non-English spoken at home	1.0 (0.8-1.3)	1.1 (0.8-1.5)	1.5 (1.1-2.1)	1.4 (1.0-1.8)			
Mother didn't graduate high							
school	na	0.8 (0.5-1.2)	1.1 (0.7-1.7)	0.8 (0.5-1.2)			
Living situation due to finances	na	0.8 (0.6-1.2)	1.0 (0.7-1.4)	1.4 (0.9-2.4)			
Food insecurity	na	0.8 (0.5-1.1)	1.1 (0.7-1.6)	0.8 (0.6-1.1)			
No dental visit in last year	na	0.8 (0.7-1.0)	1.1 (0.8-1.5)	0.9 (0.6-1.3)			
School-related measures							
Low grades in school	0.9 (0.7-1.2)	0.7 (0.6-0.9)	0.9 (0.6-1.2)	0.7 (0.5-0.9)			
Unsafe at school	1.1 (0.9-1.4)	0.9 (0.8-1.1)	0.8 (0.6-1.0)	0.7 (0.6-1.0)			
Bullied at school	1.1 (1.0-1.3)	0.9 (0.8-1.1)	1.1 (0.8-1.4)	0.9 (0.7-1.2)			
Carried weapons at school	0.9 (0.7-1.2)	1.0 (0.7-1.4)	0.9 (0.6-1.4)	0.7 (0.5-1.1)			
Substance use factors							
Current cigarette smoking	0.8 (0.4-1.6)	1.0 (0.6-1.7)	1.0 (0.6-1.6)	0.6 (0.4-0.9)			
Current marijuana use	1.6 (0.6-4.2)	1.0 (0.7-1.4)	0.8 (0.6-1.1)	0.8 (0.6-1.0)			
Current alcohol drinking	0.9 (0.6-1.4)	0.9 (0.6-1.3)	0.8 (0.6-1.0)	1.0 (0.8-1.2)			
Binge drinking	1.4 (0.7-2.6)	0.9 (0.6-1.4)	0.8 (0.6-1.1)	0.9 (0.7-1.1)			
Sexual Behavior and Orientation							
Ever had sex	na	0.6 (0.4-1.0)	1.5 (0.9-2.2)	0.7 (0.5-1.0)			
Gay, lesbian, bisexual, questioning	na	1.0 (0.8-1.3)	0.9 (0.8-1.1)	1.2 (0.9-1.7)			

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

Black/African American non-Hispanic Students

Of the 54 comparison tests conducted, 1 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents in the state sample are different from census school respondents for the characteristics assessed.

Census Black/African American respondents were less likely than state sample respondents to report:

• Carrying a weapon at school (grade 12)

Table 29f: Black/African American non-Hispanic student characteristics for state sample compared to
census schools, risk ratio (95% confidence interval)

	State Sample Compared to Census by Grade					
	6	8	10	12		
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*		
Indicators of low socioeconomic status						
Non-English spoken at home	1.1 (0.9-1.5)	1.2 (0.8-1.8)	1.2 (0.8-1.9)	1.1 (0.8-1.4)		
Mother didn't graduate high school	na	0.9 (0.7-1.3)	1.0 (0.7-1.3)	1.0 (0.7-1.4)		
Living situation due to finances	na	0.9 (0.6-1.3)	1.1 (0.7-1.6)	0.8 (0.5-1.1)		
Food insecurity	na	1.0 (0.8-1.4)	1.1 (0.8-1.4)	1.1 (0.9-1.4)		
No dental visit in last year	na	1.0 (0.8-1.3)	1.2 (0.9-1.5)	1.1 (0.8-1.7)		
School-related measures						
Low grades in school	1.0 (0.8-1.2)	1.0 (0.8-1.3)	0.9 (0.7-1.1)	0.8 (0.6-1.1)		
Unsafe at school	0.9 (0.7-1.2)	1.1 (0.8-1.3)	1.0 (0.8-1.4)	1.0 (0.8-1.3)		
Bullied at school	1.1 (0.9-1.3)	1.1 (0.9-1.3)	1.0 (0.8-1.3)	0.9 (0.6-1.3)		
Carried weapons at school	1.0 (0.7-1.3)	1.2 (0.8-1.8)	0.8 (0.5-1.1)	0.7 (0.5-1.0)		
Substance use factors						
Current cigarette smoking	1.0 (0.5-2.2)	0.9 (0.6-1.4)	1.1 (0.7-1.7)	0.9 (0.6-1.3)		
Current marijuana use	1.0 (0.5-2.0)	1.0 (0.7-1.5)	1.0 (0.7-1.3)	0.8 (0.7-1.1)		
Current alcohol drinking	1.2 (0.7-2.1)	1.1 (0.8-1.5)	0.9 (0.7-1.2)	0.9 (0.7-1.3)		
Binge drinking	1.0 (0.6-1.7)	0.9 (0.7-1.4)	0.7 (0.5-1.0)	0.9 (0.7-1.3)		
Sexual Behavior and Orientation						
Ever had sex	na	1.2 (0.6-2.4)	0.8 (0.5-1.3)	1.4 (0.9-2.0)		
Gay, lesbian, bisexual, questioning	na	1.0 (0.7-1.3)	0.9 (0.7-1.2)	1.3 (0.9-1.9)		

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

Pacific Islander non-Hispanic Students

Of the 54 comparison tests conducted, 2 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents in the state sample are different from census school respondents for the characteristics assessed.

Census Pacific Islander respondents were more likely than state sample respondents to report:

- Mother didn't graduate high school (grade 10)
- Bullied at school (grade 8)

Table 29g: Pacific Islander non-Hispanic student characteristics for state sample compared to census schools, risk ratio (95% confidence interval)

	State Sample Compared to Census by Grade						
	6	8	10	12			
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*			
Indicators of low socioeconomic sta	Indicators of low socioeconomic status						
Non-English spoken at home	1.2 (0.8-1.8)	1.0 (0.7-1.6)	1.4 (1.0-2.0)	1.2 (0.8-1.8)			
Mother didn't graduate high							
school	na	1.0 (0.6-1.6)	1.8 (1.1-2.9)	0.8 (0.5-1.4)			
Living situation due to finances	na	0.7 (0.5-1.2)	0.9 (0.6-1.3)	0.9 (0.5-1.6)			
Food insecurity	na	1.0 (0.7-1.6)	1.2 (0.8-1.7)	1.3 (0.8-2.1)			
No dental visit in last year	na	1.0 (0.7-1.5)	1.4 (0.9-2.1)	1.1 (0.7-1.7)			
School-related measures	School-related measures						
Low grades in school	0.9 (0.7-1.2)	1.0 (0.7-1.3)	1.2 (1.0-1.6)	1.1 (0.7-1.6)			
Unsafe at school	1.1 (0.8-1.4)	1.1 (0.8-1.4)	1.0 (0.7-1.4)	1.1 (0.7-1.6)			
Bullied at school	1.1 (0.9-1.4)	1.5 (1.1-1.9)	1.0 (0.7-1.3)	0.9 (0.5-1.4)			
Carried weapons at school	1.1 (0.7-1.7)	1.0 (0.6-1.7)	0.9 (0.5-1.4)	1.3 (0.7-2.4)			
Substance use factors							
Current cigarette smoking	0.9 (0.3-2.4)	1.4 (0.8-2.6)	1.4 (0.8-2.5)	1.3 (0.7-2.4)			
Current marijuana use	1.6 (0.4-5.8)	1.1 (0.7-1.6)	0.9 (0.6-1.3)	1.1 (0.7-1.6)			
Current alcohol drinking	0.8 (0.4-1.4)	1.1 (0.7-1.8)	0.9 (0.7-1.3)	1.2 (0.8-1.9)			
Binge drinking	1.1 (0.5-2.2)	1.2 (0.7-2.1)	0.8 (0.5-1.1)	1.4 (0.8-2.4)			
Sexual Behavior and Orientation							
Ever had sex	na	0.9 (0.5-1.7)	1.1 (0.7-1.8)	1.0 (0.6-1.6)			
Gay, lesbian, bisexual, questioning	na	1.2 (0.7-2.0)	1.1 (0.7-1.6)	0.8 (0.5-1.2)			

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

Other Race non-Hispanic Students

Of the 54 comparison tests conducted, 4 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents in the state sample are different from census school respondents for the characteristics assessed.

Census other race respondents were more likely than state sample respondents to report:

• Non-English spoken at home (grade 6)

Census other race respondents were less likely than state sample respondents to report:

- Mother didn't graduate high school (grade 8)
- Substance use current marijuana use (grade 10) and current alcohol drinking (grade 10)

Table 29h: Other race non-Hispanic student characteristics for state sample compared to census schools, risk ratio (95% confidence interval)

	State Sample Compared to Census by Grade					
	6	8	10	12		
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*		
Indicators of low socioeconomic status						
Non-English spoken at home	1.3 (1.0-1.6)	0.9 (0.7-1.2)	1.1 (0.9-1.4)	1.3 (0.9-1.7)		
Mother didn't graduate high						
school	na	0.7 (0.6-0.9)	0.9 (0.7-1.2)	0.9 (0.6-1.3)		
Living situation due to finances	na	0.8 (0.6-1.1)	0.9 (0.7-1.2)	1.2 (0.7-2.0)		
Food insecurity	na	0.9 (0.8-1.1)	1.2 (1.0-1.5)	0.9 (0.7-1.3)		
No dental visit in last year	na	0.9 (0.8-1.1)	1.0 (0.8-1.3)	0.9 (0.6-1.3)		
School-related measures						
Low grades in school	1.0 (0.8-1.1)	0.9 (0.8-1.1)	1.0 (0.8-1.2)	0.9 (0.7-1.2)		
Unsafe at school	1.0 (0.9-1.2)	1.0 (0.8-1.1)	0.9 (0.7-1.2)	1.0 (0.7-1.3)		
Bullied at school	1.0 (0.9-1.1)	1.1 (1.0-1.3)	1.1 (0.9-1.4)	1.1 (0.8-1.4)		
Carried weapons at school	1.1 (0.9-1.4)	1.0 (0.7-1.5)	1.1 (0.8-1.5)	1.0 (0.6-1.6)		
Substance use factors						
Current cigarette smoking	1.2 (0.7-2.1)	0.9 (0.6-1.2)	1.0 (0.7-1.3)	1.0 (0.7-1.3)		
Current marijuana use	1.5 (0.9-2.6)	0.9 (0.7-1.2)	0.8 (0.6-0.9)	1.1 (0.8-1.5)		
Current alcohol drinking	1.1 (0.8-1.4)	1.1 (0.9-1.5)	0.8 (0.6-1.0)	1.0 (0.8-1.4)		
Binge drinking	1.1 (0.8-1.5)	1.1 (0.7-1.5)	0.9 (0.7-1.1)	1.0 (0.7-1.4)		
Sexual Behavior and Orientation						
Ever had sex	na	1.0 (0.7-1.5)	1.3 (0.9-1.8)	0.9 (0.6-1.4)		
Gay, lesbian, bisexual, questioning	na	1.0 (0.8-1.2)	0.9 (0.8-1.2)	0.9 (0.7-1.2)		

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

Multi-racial non-Hispanic Students

Of the 54 comparison tests conducted, 5 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents in the state sample are different from census school respondents for the characteristics assessed.

Census multi-racial respondents were less likely than state sample respondents to report:

- Non-English spoken at home (grade 8)
- Mother didn't graduate high school (grade 8)
- Feeling unsafe at school (grade 8)
- Substance use current cigarette smoking (grade 10) and binge drinking (grade 10)

Table 29i: Multi-racial non-Hispanic student characteristics for state sample compared to census schools, risk ratio (95% confidence interval)

	State Sample Compared to Census by Grade				
	6	8	10	12	
Variable	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	RR (95% CI)*	
Indicators of low socioeconomic sta	itus				
Non-English spoken at home	1.3 (0.9-1.8)	0.8 (0.6-1.0)	1.2 (0.9-1.7)	1.1 (0.7-1.7)	
Mother didn't graduate high					
school	na	0.7 (0.5-0.9)	1.0 (0.8-1.3)	0.9 (0.7-1.3)	
Living situation due to finances	na	0.9 (0.6-1.3)	1.2 (0.9-1.8)	0.8 (0.6-1.2)	
Food insecurity	na	1.1 (0.8-1.4)	1.0 (0.8-1.2)	1.0 (0.7-1.2)	
No dental visit in last year	na	0.9 (0.7-1.2)	1.0 (0.7-1.4)	0.9 (0.7-1.3)	
School-related measures					
Low grades in school	1.1 (0.8-1.3)	0.8 (0.7-1.0)	1.1 (0.9-1.4)	1.0 (0.8-1.3)	
Unsafe at school	1.0 (0.8-1.3)	0.8 (0.6-0.9)	1.0 (0.8-1.3)	1.0 (0.8-1.3)	
Bullied at school	1.0 (0.9-1.2)	1.0 (0.9-1.2)	1.0 (0.8-1.2)	1.1 (0.9-1.5)	
Carried weapons at school	1.1 (0.8-1.5)	1.1 (0.7-1.6)	1.0 (0.8-1.4)	1.0 (0.7-1.4)	
Substance use factors					
Current cigarette smoking	0.7 (0.4-1.3)	1.3 (0.8-2.0)	0.8 (0.6-1.0)	0.9 (0.6-1.4)	
Current marijuana use	0.8 (0.5-1.3)	0.8 (0.6-1.2)	0.9 (0.7-1.1)	0.9 (0.7-1.2)	
Current alcohol drinking	0.9 (0.6-1.4)	1.2 (0.8-1.6)	0.9 (0.7-1.1)	1.0 (0.8-1.3)	
Binge drinking	1.2 (0.7-1.9)	1.2 (0.8-1.8)	0.7 (0.6-0.9)	1.1 (0.8-1.4)	
Sexual Behavior and Orientation					
Ever had sex	na	1.3 (0.6-3.0)	1.0 (0.8-1.3)	1.0 (0.7-1.4)	
Gay, lesbian, bisexual, questioning	na	0.9 (0.7-1.1)	1.0 (0.8-1.3)	1.2 (0.9-1.5)	

* RR: risk ratio; 95% CI: 95% confidence interval; bolded values are statistically significant at the p <0.05 level (that is, the 95% CI does not include 1.0). A risk ratio less than 1 indicates that the characteristic is less common among respondents completing the survey.

Yes, respondents in the state sample are somewhat different from respondents from all eligible schools (census)

- The percentage of 6th, 8th, 10th, and 12 grade white; 6th, 8th, and 10th grade Hispanic students in the state sample are lower than the parent reported results from OSPI. The percentages of 12th grade Hispanic; 6th, 8th, 10th, and 12th grade American Indian/Alaska Native; 6th and 8th grade Asian; 6th and 10th grade Black/African American; and 6th, 8th, 10th, and 12th grade Pacific Islander students in the state samples are higher than OSPI.
- 2. The percentage of 6th, 8th, 10th, and 12 grade white; 6th, 8th, 10th, and 12th grade Hispanic; and 6th and 8th grade multi-racial students in the HYS census are lower than the parent reported results from OSPI. The percentages of 12th grade Hispanic; 6th, 8th, 10th, and 12th grade American Indian/Alaska Native; 6th, 8th, and 10th grade Asian; 6th and 8th grade Black/African American; and 6th, 8th, 10th, and 12th grade Pacific Islander students in the HYS census are higher than OSPI.
- 3. Where comparing student responses from the state sample to the census results among racial/ethnic groups only 34 differences were found out of 504 comparison tests. The following differences were found:
 - White students in the census were more likely to report living in non-English speaking homes (grades 8, 10 and 12) and were more likely to describe themselves as gay, lesbian, bisexual or not sure of their sexual orientation (grade 8).
 - Hispanic 12th graders were more likely to describe themselves as gay, lesbian, bisexual or not sure of their sexual orientation (grade 12). Hispanic students in the state sample were more likely to report carrying a weapon at school (grade 6) and to get lower grades in school (grade 8).
 - American Indian/Alaska Native 6th graders in the census were more likely to report living in a non-English speaking home, and 10th graders in the state sample were more likely to report getting lower grades in school or ever had sex in their lifetime.
 - Asian students in the census were more likely to report living in a non-English speaking home (grades 10 and 12). Asian students in the state sample were more likely to report getting lower grades in school (grades 8 and 12), to feel unsafe at school (grades 10 and 12), to smoke cigarettes (grade 12), and to have ever had sex in their lifetime (grade 12).
 - Black/African American 12th graders in the state sample were more likely to report carrying a weapon at school.
 - Pacific Islander students in the census were more likely to report having a mother that didn't graduate from high school (grade 10) and to be bullied at school (grade 8).
 - Students who report they were another race in the census were more likely to live in non-English speaking homes (grade 6). Other race students in the state sample were more likely to report having a mother who didn't graduate high school (grade 8), to smoke cigarettes (grade 10), and to binge drink (grade 10).
 - 8th grade students who selected more than one race in the state sample were more likely to report living in a non-English speaking home, to have a mother who didn't graduate from high school, and to feel unsafe at school. 10th grade students in the state sample were more likely to report cigarette smoking and binge drinking.

It appears that the state sample results and the census results are comparable, and both could be used for statewide analysis.

School Participation Bias

Alternative Schools

In 2016, alternative schools in the state sample were just as likely to participate in HYS, but census alternatives schools were less likely to participate. Very few alternative schools were selected for the state sample making it difficult to detect a difference in participation.

School Demographics

State sample schools that participated in HYS were similar to non-participating schools for grade-level enrollment size and minority enrollment but participating 6th grade schools had lower free/reduced price lunch rates than non-participating schools. Census schools that participated had higher grade-level enrollment, had higher minority enrollment (grades 6 and 8), and lower free/reduced price lunch rates (grades 10 and 12) than non-participating schools.

Academic Achievement

State sample schools that participated in HYS had higher on-time graduation rates (grade 10) than nonparticipating schools. Census schools that participated had higher percentages students meeting English and Math assessment requirements (grade 6) and had higher on-time graduation rates (grades 10 and 12) than non-participating schools.

Urban/Rural Locations

Sixth grade state sample schools that participated in HYS were less likely to be in isolated/rural locations than urban schools. Census schools that participated were less likely in isolated/rural locations (grades 6, 8, 10, and 12), in small town locations (grades 6 and 8), and in sub-urban locations (grades 6, 8 and 12) than urban schools.

Summary of Participation Bias

Participation in the 2016 HYS was extremely high among schools in the state sample and the census (between 82 and 94%). Some schools were less likely to participate but there were very few differences among state sampled schools and non-participants. Due to the increased number of schools in the census, we were able to find more differences from non-participating schools. Schools in the census may underrepresent alternative schools, schools with lower enrollment and lower percent minority enrollment, and secondary schools with higher free/reduced lunch rates and lower on-time graduation rates. They also may underrepresent schools in non-urban areas.

The 2016 HYS state sample results may underrepresent students from schools with low economic status, students from schools with academic achievement issues, and students in isolated/rural areas. The 2016 HYS results may over-represent students from schools with high economic status, students from schools with fewer academic achievement issues, and students from schools in urban areas.

For census schools, schools that were the least likely to participate in the 2016 HYS were alternative, "small", and in non-urban areas. These finding could be due to the fact that alternative schools and schools in non-urban areas are "small" and larger schools may have more resources to implement the survey. Larger schools might also be more likely to participate because reliable results would be available to them based on their size. Additional efforts to support "small" schools to participate in the future may prove useful in making the results more representative of all students statewide. Schools with academic achievement issues were also less likely to participate in the 2016 HYS. These schools may be more focused on improving academic achievement and may have less time to spend on optional activities like the HYS and could also use additional support to participate in the future.

Student Non-Completion Bias

Students who finished the Healthy Youth Survey responded differently compared to those who did not finish the survey making the prevalence estimates for questions at the end of the survey to be potentially subject to bias. The 2016 HYS state sample results may underrepresent students getting low grades in schools, who have low economic status, who live in non-English speaking homes, and who are Hispanic or Black/African American.

The 2016 HYS census results may underrepresent students getting low grades in school, who have low economic status, who's living situation is due to finances, who had to cut meals due to finances, who did not see a dentist, who smoke cigarettes, use marijuana and drink alcohol, who live in non-English speaking homes, and who are Hispanic, American Indian/Alaska Native, Black/African American, or Pacific Islander.

School and Student Optional Question Administration Bias

School-level

State sample schools that asked optional questions had similar school demographics to those that did not ask optional questions. The 2016 state sample optional question results may underrepresent large schools and schools with academic achievement issues. The 2016 optional question results for census schools may underrepresent schools with lower minority enrollment and schools in sub-urban areas.

Student-level

The 2016 state sample optional question results may underrepresent students getting lower grades in school, with low socio-economic status, who live in non-English speaking homes, and are Hispanic or Black/African American. The 2016 optional question results for census schools may underrepresent students getting lower grades in school, with low socio-economic status, those using cigarettes, marijuana and alcohol, living in a non-English speaking home, and are Hispanic, Asian, Black/African American, or Pacific Islander. The optional questions are found at the end of the survey, so it is possible that the differences between optional questions takers and non-optional question takers were affected by non-completion bias.

Summary of Optional Question Bias

In 2016, there was a large increase in the number of schools and students taking the optional questions (from about 40% in 2014 to about 70% in 2016). It appears that this increase in optional question taking decreased the differences between optional and non-optional survey takers. While there are some school and student-level differences between optional survey takers and non-optional survey takers, for state sampled schools and census schools the results from optional questions are likely representative of students in Washington State.

Racial/Ethnic Differences between the State Sample and Census Schools

In 2016, there were very few differences in response among students in the state sample and the census. Of the 54 comparison tests, the only differences were that 6th grade students in the census were more likely to report current alcohol drinking and binge drinking. It appears that the state sample results and the census results are comparable, and both could be used for statewide analysis.

When looking at racial/ethnic populations there were different responses among students in the state sample and the census. Compared to students in the state sample, these groups of students in the census were more likely to:

- Live in a non-English speaking home white (8/10/12), American Indian/Alaska Native (6), Asian (10), and other race (6) students
- Have a mother who didn't graduate high school Pacific Islander (10) students
- Be bullied at school Pacific Islander (8) students
- Describe themselves as gay, lesbian, bisexual or questioning white (8) and Hispanic students (12)

Compared to students in the state sample, these groups of students in the census were less likely to:

- Live in a non-English speaking home multi-racial students (8)
- Have a mother who didn't graduate high school other race (8) and multi-racial students
- Report lower grades in school Hispanic (8), American Indian/Alaska Native (10), and Asian (8/10) students
- Feel unsafe at school Asian (12) and multi-racial students (8)
- Carry a weapon at school Hispanic (6) and Black/African American students (12)
- Smoke cigarettes Asian (12) and multi-racial students (10)
- Use marijuana other race (10) students
- Alcohol drinking other race (10) students
- Binge drink multi-racial students (10)
- To have ever had sex Asian (12) students

Summary of Racial/Ethnic Group Differences

Comparing percentage of students in racial/ethnic groups in the census and state sample to the percentages of students reported by OSPI, they are only 0.2% different from each other. We do see some differences in student reported results when comparing the census to the state sample, but only living in a non-English speaking home and getting lower grades in school affected multiple race/ethnic groups and multiple grades. The census and state sample results appear to be comparable, with the possible exceptions of those two measures. Caution may need to be exercised when looking at Asian 12th graders, as they have the greatest number of differences.

Appendix A: Non-Completion by Form Type and Grade

The analysis of student-level characteristics showed survey non-completion as the primary potential source of bias among schools in the state sample. The analysis showed that respondents finishing the survey are different in some respects from respondents who stopped earlier in the survey. If the respondents differ in a characteristic that influences how they would answer survey questions at the end of the survey, then percentages derived from those questions might not accurately reflect the true percentage.

An important consideration for determining the potential impact of non-completion bias is what percentage of respondents did not complete the survey, and where in the survey they stopped answering questions. For each administration of HYS, the Healthy Youth Survey Planning Committee tries to adjust the length of the survey to try to keep non-completion under 15%.

Survey Form	Number of Survey Questions			
Survey Form	Core Survey	Optional Questions		
Form A	138	1		
Form B	116	5		
Form C	76	0		

Table 1: Number of questions on each survey form

Figures 1a-e gives the proportion of students who answered each question on each survey form. The dropout rate is the highest for 8th graders taking A.

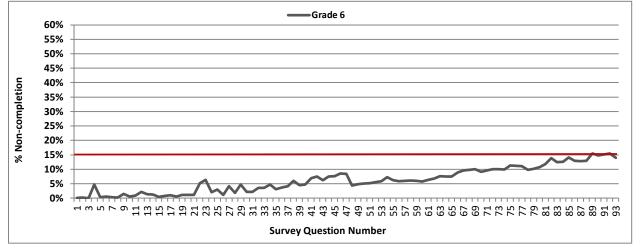


Figure 1a: Question non-completion over the course of Form C, grade 6 for the state sample.

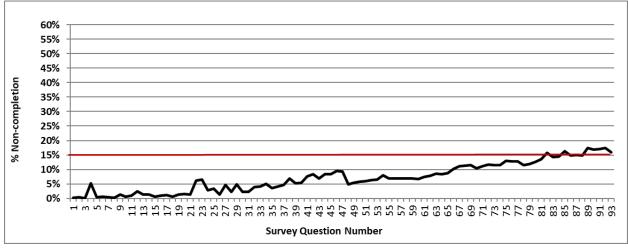
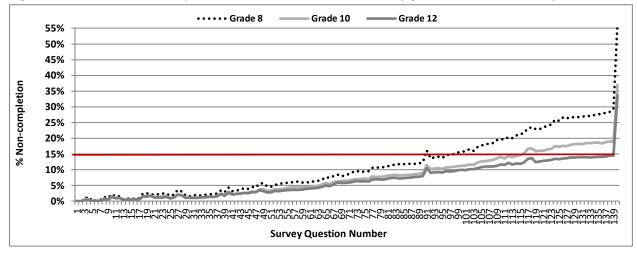
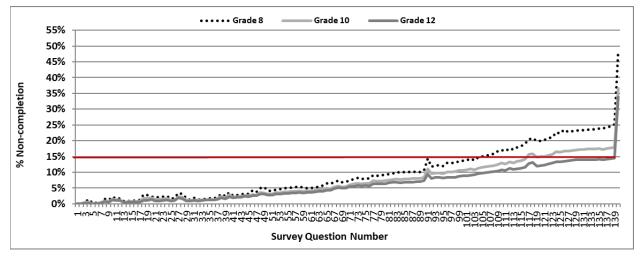


Figure 1b: Question non-completion over the course of Form C, grade 6 in census schools.

Figure 1c: Question non-completion over the course of Form A by grade for the state sample.







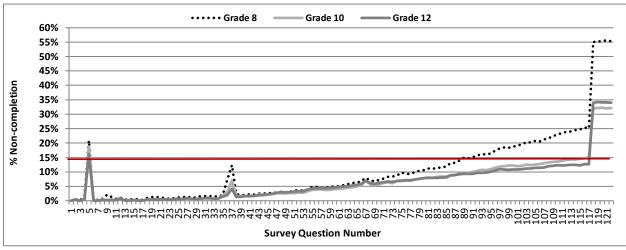
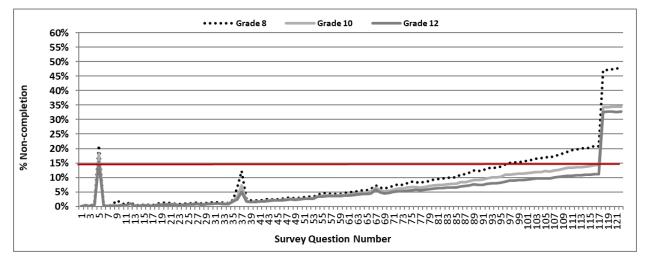


Figure 1e: Question non-completion over the course of Form B by grade for the state sample

Figure 1f: Question non-completion over the course of Form B by grade in census schools.



Respondents who answered all the last 30 questions at the end of Form A or Form B, not including the optional questions, were considered to have "completed" the survey. The following is a list of topics that were asked about at the end of both forms.

The last 30 questions asked of 8th, 10th, and 12th graders included the following topics:

- Abuse
- Alcohol and marijuana use and consequences
- Behaviors related to injury
- Cigarettes and electronic cigarettes/vape
- Demographics
- Family protective factor opportunities for prosocial involvement
- Family risk factor poor family management
- Food insecurity
- Gambling
- Peer-individual risk and protective factors interaction with prosocial peers and friends use of drugs, and social skills
- Physical, emotional and sexual abuse (sexual abuse questions were optional)
- Quality of life
- School support and counseling
- Secondhand smoke exposure
- Sexual behavior (optional questions)
- Sexuality education
- Social and emotional learning
- Substance use on school property
- Suicide education
- Worrying and anxiousness

An 85% completion rate is desired for all HYS questions. The following questions were not completed by 85% of 8th graders. If certain types of 8th graders don't complete the survey, the results from these questions may not be representative of 8th graders.

8th Grader non-completion rate fell below the desired 85% mark for the following questions:

- Demographics
 - If you are of Asian or Pacific Islander background, which groups best describe you? Mark all that apply.
 - How often in the past 12 months did you or your family have to cut meal size or skip meals because there wasn't enough money for food?
- Behaviors related to injury
 - During the past 30 days, how many times did you ride in a car or other vehicle driven by someone who had been using marijuana?
 - During the past 30 days, how many times did you drive a car or other vehicle within three hours after using marijuana?
 - During the past 30 days, how many days did you text or email while driving a car or other vehicle?
- Abuse
 - During the past 12 months, did someone you were dating or going out with ever limit your activities, threaten you, or make you feel unsafe in any other way?

- In the past 12 months, how many times did someone you were dating or going out with physically hurt you on purpose? (Count such things as being hit, slammed into something, or injured with an object or weapon.)
- Not counting TV, movies, video games, and sporting events, have you seen an adult hit, slap, punch, shove, kick, or otherwise physically hurt another adult more than one time?
- Has an adult ever physically hurt you on purpose (like pushed, slapped, hit, kicked or punched you), leaving a mark, bruise or injury?
- How often does a parent or adult in your home swear at you, insult you, put you down or humiliate you?
- Gambling
 - o In the past 12 months, how often have you gambled (bet) for money or possessions?
- Sexuality education
 - Last year, did you hear or see information at your school about the warning signs of suicide and how to get help for yourself or a friend?
- Suicide education
 - Last year in school, were you taught about abstinence (not having sex) to prevent sexually transmitted diseases (STDs) and pregnancy?
 - Last year in school, were you taught about ways other than abstinence to prevent sexually transmitted diseases (STDs) and pregnancy?
- School support and counseling
 - Does your school have a counselor?
 - In the last year, did you have any contact with the counselor?
 - There are people in this school who will help me if I need it.
- Social and emotional learning
 - o I know how to disagree without starting a fight or argument.
 - When I have problems at school, I am good at finding ways to solve them.
 - When I make a decision, I think about what might happen afterward.
 - o I try to understand how other people feel and think.
- Worrying and anxiousness
 - How often over the last 2 weeks were you bothered by: Feeling nervous, anxious or on edge?
 - How often over the last 2 weeks were you bothered by: Not being able to stop or control worrying?
- Family risk factor poor family management
 - My parents ask if I've gotten my homework done.
 - When I am not at home, one of my parents knows where I am and who I am with.
 - The rules in my family are clear.
 - My family has clear rules about alcohol and drug use.
 - If you drank some beer, wine, or liquor (for example vodka, whiskey, or gin) without your parent's permission, would you be caught by them?
 - Would your parents know if you did not come home on time?
 - o If you carried a handgun without your parent's permission, would you be caught by them?
 - If you skipped school, would you be caught by your parents?
- Family protective factor opportunities for prosocial involvement
 - If I had a personal problem, I could ask my mom or dad for help.
 - My parents give me lots of chances to do fun things with them.
 - My parents ask me what I think before most family decisions affecting me are made.
- Substance use on school property
 - During the past 30 days, on how many days did you have at least one drink of alcohol on school property?
 - During the past 30 days, on how many days did you use marijuana on school property?
 - 1. Cigarettes and electronic cigarettes/vapes

- o Do you think that you will smoke a cigarette anytime in the next year?
- During the past 12 months, have you ever tried to quit using tobacco (cigarettes, cigars, chew/dip)?
- During the past 30 days, how did you usually get your own tobacco? (Choose only one answer.)
- During the past 30 days, on how many days did you use tobacco (cigarettes, cigars, or chew/dip) on school property?
- During the past 30 days, on how many days did you: Use an electronic cigarette, also called e-cigs, or vape pens on school property?
- During the past 30 days, what type of substances did you use in an electronic cigarette, also called e-cigs, or vape pens? Select all that apply
- During the past 30 days, how did you usually get your own electronic vapor products? (Choose only one answer.)
- How much do you think people risk harming themselves if they use electronic cigarettes, also called e-cigs or vape pens regularly (almost daily)?
- 2. Alcohol and marijuana use and consequences
 - a. Think about the students in your school. If you had to guess, how wrong do most students in your grade think it is to drink alcohol regularly?
 - During the past 30 days, how did you get alcohol (beer, wine or hard liquor)? Choose all that apply.
 - During the past 30 days, what type of alcohol did you usually drink?
 - During the past 30 days, how did you get marijuana? Choose all that apply.
 - o During the past 30 days, if you used marijuana, how did you usually use it?
 - o If you use marijuana or hashish (weed, hash, pot) how long do you usually stay high?
 - o Does anyone who lives with you now use marijuana?
 - In the past year, which of the following happened because you drank alcohol or used drugs? Choose all that apply.
- Peer-individual protective factor interaction with prosocial peers
 - Think of your four best friends (the friends you feel closest to). In the past year (12 months), how many of your best friends have:
 - Participated in clubs, organizations or activities at school?
 - i. Made a commitment to stay drug-free?
 - ii. Liked school?
 - iii. Regularly attended religious services?
 - iv. Tried to do well in school?
- Peer-individual risk factor friends use of drugs
 - Think of your four best friends (the friends you feel closest to). In the past year (12 months), how many of your best friends have:
 - i. Smoked cigarettes?
 - ii. Tried beer, wine, or hard liquor (for example vodka, whiskey, or gin) when their parents didn't know about it?
 - iii. Used marijuana?
 - iv. Used LSD, cocaine, amphetamines, or other illegal drugs?
- Peer norms around substance use
 - How wrong do your friends feel it would be for you to:
 - i. Have one or two drinks of an alcoholic beverage nearly every day?
 - ii. Use tobacco?
 - iii. Use marijuana?
 - iv. Use prescription drugs not prescribed to you?
- Peer-individual protective factor social skills
 - You're looking at CDs in a music store with a friend. You look up and see her slip a CD under her coat. She smiles and says, "Which one do you want? Go ahead, take it while nobody's

around." There is nobody in sight, no employees, and no other customers. What would you do now?

- You are visiting another part of town and you don't know any of the people your age there.
 You are walking down the street and some teenager you don't know is walking toward you.
 He is about your size. As he is about to pass you, he deliberately bumps into you and you almost lose your balance. What would you say or do?
- You are at a party at someone's house and one of your friends offers you a drink containing alcohol. What would you say or do?

An 85% completion rate is desired for all HYS questions. The following questions were not completed by 85% of 10th graders. If certain types of 10th graders don't complete the survey, the results from these questions may not be representative of 10th graders.

10th Grader non-completion rate fell below the desired 85% mark for the following questions:

- 3. Alcohol and marijuana use and consequences
 - During the past 30 days, what type of alcohol did you usually drink?
 - During the past 30 days, how did you get marijuana? Choose all that apply.
 - During the past 30 days, if you used marijuana, how did you usually use it?
 - If you use marijuana or hashish (weed, hash, pot) how long do you usually stay high?
 - Does anyone who lives with you now use marijuana?
 - In the past year, which of the following happened because you drank alcohol or used drugs? Choose all that apply.
- Peer-individual protective factor interaction with prosocial peers
 - Think of your four best friends (the friends you feel closest to). In the past year (12 months), how many of your best friends have:
 - Participated in clubs, organizations or activities at school?
 - i. Made a commitment to stay drug-free?
 - ii. Liked school?
 - iii. Regularly attended religious services?
 - iv. Tried to do well in school?
- Peer-individual risk factor friends use of drugs
 - Think of your four best friends (the friends you feel closest to). In the past year (12 months), how many of your best friends have:
 - i. Smoked cigarettes?
 - ii. Tried beer, wine, or hard liquor (for example vodka, whiskey, or gin) when their parents didn't know about it?
 - iii. Used marijuana?
 - iv. Used LSD, cocaine, amphetamines, or other illegal drugs?
- Peer norms around substance use
 - How wrong do your friends feel it would be for you to:
 - i. Have one or two drinks of an alcoholic beverage nearly every day?
 - ii. Use tobacco?
 - iii. Use marijuana?
 - iv. Use prescription drugs not prescribed to you?
- Peer-individual protective factor social skills
 - You're looking at CDs in a music store with a friend. You look up and see her slip a CD under her coat. She smiles and says, "Which one do you want? Go ahead, take it while nobody's around." There is nobody in sight, no employees, and no other customers. What would you do now?
 - You are visiting another part of town and you don't know any of the people your age there. You are walking down the street and some teenager you don't know is walking toward you.

He is about your size. As he is about to pass you, he deliberately bumps into you and you almost lose your balance. What would you say or do?

• You are at a party at someone's house and one of your friends offers you a drink containing alcohol. What would you say or do?

An 85% completion rate is desired for all HYS questions. All Form A and Form B questions were completed by 85% of 12th graders.

The following is a list of the optional questions on the "tear-off" portion of the survey forms. Since 67% of 8th, 71% of 10th and 70% of 12th grade state sampled schools selected to ask these questions, the results from these questions may not be representable. See Section 8. Student-Level Optional Question Bias for more details.

8th, 10th and 12th Grader only completed the following questions if their school chose to take the optional survey questions.

- Sexual orientation
 - Which of the following best describes you? (Heterosexual (straight), Gay or lesbian, Bisexual, Not sure)
- Sexual behavior
 - How old were you when you had sexual intercourse for the first time?
 - With how many people have you ever had sexual intercourse?
 - o The last time you had sexual intercourse, did you or your partner use a condom?
- Physical, emotional and sexual abuse
 - Have you ever been in a situation where someone made you engage in kissing, sexual touch or intercourse when you did not want to?

Methods

Risk ratio tables comparing student characteristics of survey non-completers (respondents who did not answer the last 3 questions) to completers (those that answered all of the last 30 questions) are provided in Section 7. Student-level Completion Bias. Differences in respondent characteristics show if respondents who do not complete the survey are different from those that do complete it. Differences may indicate that questions towards the end of the survey have non-completion bias.

Risk ratio tables comparing all survey respondents to completers are also provided in Section 7. Studentlevel Completion Bias. Comparing all respondents to completers shows the potential magnitude of the non-completion bias on the actual survey results.

Instead of presenting risk ratios, Tables 1-4 show the differences in prevalence for selected student characteristic questions by grade for:

- a. Non-completers versus completers in the state sample
- b. All respondents versus completers in the state sample
- c. Non-completers versus completers in census schools
- d. All respondents versus completers in census schools

Results

Non-completion among 6th Grade

- a. Non-completers in the state sample were more likely to report low grades in school, not feeling safe at school, current cigarette smoking, current marijuana use, binge drinking, current alcohol drinking, and living in a home were English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be Hispanic or American Indian/Alaska Native.
- b. All respondents in the state sample were more likely to report low grades in school, not feeling safe at school, current cigarette smoking, current marijuana use, binge drinking, current alcohol drinking, and living in a home were English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be Hispanic or Black/African American.
- c. Non-completers in census schools were more to report low grades in school, not feeling safe at school, current cigarette smoking, current marijuana use, binge drinking, and current alcohol drinking. Non-completers were less likely to be white or Asian, and more likely to be Hispanic, American Indian/Alaska Native or Black/African American.
- d. All respondents to completers in census schools were more likely to report low grades in school, not feeling safe at school, current cigarette smoking, and living in a home where English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be Hispanic or Black/African American.

Table 1a: Comparison of student characteristics among 6th grade non-completers to completers in the state sample.

Question	Options	Non- completers Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	75.4 (2.2)	88.2 (0.7)	0.0000
your grades like last year?	Mostly Cs, Ds, or Fs	24.7 (2.2)	11.8 (0.7)	0.0000
I feel sefe at my seheel	Yes!/Mostly & yes/def. true	88.5 (1.6)	90.5 (0.7)	0.0163
I feel safe at my school.	no/mostly & NO/def not true	11.5 (1.6)	9.5 (0.7)	0.0163
During the past 30 days, on how many	None	98.6 (0.7)	99.7 (0.1)	
days did you smoke cigarettes?	At least 1 day	1.4 (0.7)	0.3 (0.1)	0.0000
During the past 30 days, on how many	None	98.8 (0.6)	99.3 (0.2)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	1.2 (0.6)	0.7 (0.2)	0.0372
Think back over the last 2 weeks. How	None	97.6 (0.9)	98.9 (0.2)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	2.5 (0.9)	1.1 (0.2)	0.0002
During the past 30 days, on how many	None	97.5 (0.9)	98.5 (0.3)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	2.5 (0.9)	1.5 (0.3)	0.0165
What language is usually spoken at	English	76.2 (2.1)	82.9 (0.9)	
home?	Other language	23.8 (2.1)	17.1 (0.9)	0.0000
	White	29.6 (2.4)	40.5 (-26.4)	0.0000
	Hispanic	22.3 (2.1)	13.5 (0.8)	0.0000
How do you describe yourself? (Select	American Indian/Alaska Native	7.3 (1.3)	5.9 (-21.7)	0.0376
one or more responses.)	Asian	5.9 (1.2)	11.1 (0.7)	0.0000
	Black/African American	4.4 (1.1)	3.7 (-3.2)	0.1924
	Pacific Islander	2.1 (0.7)	1.6 (0.3)	0.1801

Table 1b: Comparison of student characteristics among all 6th grade respondents to completers in the state sample (simulating bias).

Question	Options	All Respondents Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	86.1 (0.7)	88.2 (0.7)	0.0001
your grades like last year?	Mostly C's, D's, or F's	13.9 (0.7)	11.8 (0.7)	0.0001
l feel safe at my school.	Yes!/Mostly & yes/def. true	90.2 (0.6)	90.5 (0.7)	0.4588
	no/mostly & NO/def not true	9.8 (0.6)	9.5 (0.7)	0.4388
During the past 30 days, on how	None	99.5 (0.1)	99.7 (0.1)	0.1449
many days did you smoke cigarettes?	At least 1 day	0.5 (0.1)	0.3 (0.1)	0.1449
During the past 30 days, on how	None	99.3 (0.2)	99.3 (0.2)	0.5683
many days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	0.8 (0.2)	0.7 (0.2)	
Think back over the last 2 weeks.	None	98.7 (0.2)	98.9 (0.2)	
How many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	1.3 (0.2)	1.1 (0.2)	0.3204
During the past 30 days, on how	None	98.4 (0.3)	98.5 (0.3)	
many days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	1.7 (0.3)	1.5 (0.3)	0.5062
What language is usually spoken at	English	81.7 (0.8)	82.9 (0.9)	0.0482
home?	Other language	18.3 (0.8)	17.1 (0.9)	0.0462
	White	38.7 (1.0)	40.5 (1.1)	0.0184
How do you describe yourself?	Hispanic	15.0 (0.7)	13.5 (0.8)	0.0075
	American Indian/Alaska Native	6.2 (0.5)	5.9 (0.5)	0.5230
(Select one or more responses.)	Asian	10.2 (0.6)	11.1 (0.7)	0.0747
	Black/African American	3.8 (0.4)	3.7 (0.4)	0.6893
	Pacific Islander	1.7 (0.3)	1.6 (0.3)	0.6797

Table 1c: Comparison of student characteristics among 6th grade non-completers to completers in census schools.

Question	Options	All Respondents Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	75.8 (0.8)	86.3 (0.3)	0.0000
your grades like last year?	Mostly C's, D's, or F's	24.3 (0.8)	13.8 (0.3)	0.0000
	Yes!/Mostly & yes/def. true	87.4 (0.6)	90.5 (0.3)	0.0000
I feel safe at my school.	no/mostly & NO/def not true	12.6 (0.6)	9.5 (0.3)	0.0000
During the past 30 days, on how	None	98.7 (0.2)	99.4 (0.1)	
many days did you smoke cigarettes?	At least 1 day	1.3 (0.2)	0.6 (0.1)	0.0000
uring the past 30 days, on how	None	98.9 (0.2)	99.2 (0.1)	
many days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	1.1 (0.2)	0.8 (0.1)	0.0314
Think back over the last 2 weeks.	None	98.0 (0.3)	98.4 (0.1)	0.0087
How many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	2.0 (0.3)	1.6 (0.1)	
During the past 30 days, on how	None	97.6 (0.3)	97.9 (0.1)	
many days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	2.4 (0.3)	2.1 (0.1)	0.0474
What language is usually spoken at	English	74.2 (0.8)	80.3 (0.4)	0 0000
home?	Other language	25.8 (0.8)	19.7 (0.4)	0.0000
	White	27.2 (0.8)	37.8 (0.5)	0.0000
How do you describe yourself?	Hispanic	21.5 (0.8)	16.5 (0.4)	0.0000
	American Indian/Alaska Native	7.0 (0.5)	5.8 (0.2)	0.0000
(Select one or more responses.)	Asian	6.7 (0.5)	10.0 (0.3)	0.0000
	Black/African American	7.0 (0.5)	4.1 (0.2)	0.0000
	Pacific Islander	2.2 (0.3)	1.9 (0.1)	0.0392

Table 1d: Comparison of student characteristics among all 6 th grade respondents to completers in
census schools (simulating bias).

Question	Options	Non- completers Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	84.3 (0.3)	88.2 (0.7)	0.0000
your grades like last year?	Mostly C's, D's, or F's	15.7 (0.3)	11.8 (0.7)	0.0000
I feel safe at my school.	Yes!/Mostly & yes/def. true	89.9 (0.3)	90.5 (0.7)	0.1218
ieei sale at illy school.	no/mostly & NO/def not true	90.5 (0.3)	90.0 (0.7)	0.1218
During the past 30 days, on how many	None	99.3 (0.1)	99.7 (0.1)	0.0004
days did you smoke cigarettes?	At least 1 day	0.7 (0.1)	0.3 (0.1)	0.0004
During the past 30 days, on how many days did you: Use marijuana or hashish (weed, hash, pot)?	None	99.1 (0.1)	99.3 (0.2)	
	At least 1 day	0.9 (0.1)	0.7 (0.2)	0.0816
Think back over the last 2 weeks. How many times have you had five or more drinks in a row? (A drink is a glass of	None	98.4 (0.1)	98.9 (0.2)	0.0003
wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	1.7 (0.1)	1.1 (0.2)	
During the past 30 days, on how many	None	97.9 (0.1)	98.5 (0.3)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	2.1 (0.1)	1.5 (0.3)	0.0006
What language is usually spoken at	English	79.1 (0.3)	82.9 (0.9)	0.0000
home?	Other language	20.9 (0.3)	17.1 (0.9)	0.0000
	White	35.8 (0.4)	40.5 (1.1)	0.0000
	Hispanic	17.4 (0.3)	13.5 (0.8)	0.0000
How do you describe yourself? (Select	American Indian/Alaska Native	6.0 (0.2)	5.9 (0.5)	0.7616
one or more responses.)	Asian	9.4 (0.2)	11.1 (0.7)	0.0000
	Black/African American	4.6 (0.2)	3.7 (0.4)	0.0002
	Pacific Islander	1.9 (0.1)	1.6 (0.3)	0.0728

Non-completion among 8th Grade

- a. Non-completers in the state sample were more likely to report low grades in school, not feeling safe at school, having a mother that didn't graduate high school, not seeing a dentist, current marijuana use, binge drinking, and living in a home where English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be Hispanic, Black/African American or Pacific Islander.
- b. All respondents in the state sample were more likely to report low grades in school, not feeling safe at school, having a mother that didn't graduate high school, skipping/cutting meals due to finances, not seeing a dentist, current marijuana use, binge drinking, and living in a home where English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be Hispanic, Black/African American or Pacific Islander.
- c. Non-completers in census schools were more likely to report low grades in school, not feeling safe at school, having a mother that didn't graduate high school, skipping/cutting meals due to finances, not seeing a dentist, current cigarette smoking, current marijuana use, binge drinking, current alcohol drinking, and living in a home where English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be Hispanic, American Indian/Alaska Native, Black/African American or Pacific Islander.
- d. All respondents compared to completers in census schools were more likely to report low grades in school, not feeling safe at school, having a mother that didn't graduate high school, skipping/cutting meals due to finances, not seeing a dentist, current marijuana use, binge drinking, and living in a home where English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be Hispanic or Black/African.

Table 2a: Comparison of student characteristics among 8th grade non-completers to completers in the state sample.

Question	Options	Non- completers Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	71.7 (2.0)	79.6 (1.1)	0.0000
your grades like last year?	Mostly C's, D's, or F's	28.3 (2.0)	20.4 (1.1)	0.0000
I feel safe at my school.	Yes!/Mostly & yes/def. true	81.8 (1.6)	84.4 (0.9)	0.0046
Theer safe at my school.	no/mostly & NO/def not true	18.2 (1.6)	15.6 (0.9)	0.0046
How far did your mother get in	Graduated HS or more	80.8 (2.1)	86.2 (1.0)	0.0000
school?	Didn't graduate HS	19.2 (2.1)	13.8 (1.0)	0.0000
	No	94.1 (1.1)	94.5 (0.6)	
Living situation due to finances	Yes	5.9 (1.1)	5.6 (0.6)	0.5435
How often in the past 12 months did	None	88.8 (1.5)	90.2 (0.8)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	11.2 (1.5)	9.8 (0.8)	0.1095
When was the last time you saw a	In the past year	69.8 (3.0)	79.0 (1.5)	0.0000
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	30.2 (3.0)	21.0 (1.5)	
Do you receive free or reduced price	No	55.7 (3.7)	64.8 (1.8)	0.0000
lunches at school?	Yes	44.3 (3.7)	35.2 (1.8)	
During the past 30 days, on how many	None	96.7 (0.8)	97.1 (0.4)	0.0000
days did you smoke cigarettes?	At least 1 day	3.3 (0.8)	2.9 (0.4)	0.3829
During the past 30 days, on how many	None	91.8 (1.2)	94.4 (0.6)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	8.2 (1.2)	5.6 (0.6)	0.0000
Think back over the last 2 weeks. How	None	95.1 (1.0)	95.6 (0.5)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	4.9 (1.0)	4.4 (0.5)	0.0055
During the past 30 days, on how many	None	91.8 (1.2)	92.8 (0.7)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	8.2 (1.2)	7.2 (0.7)	0.1199
What language is usually spoken at	English	72.9 (1.9)	80.5 (1.0)	0.0000
home?	Other language	27.1 (1.9)	19.5 (1.0)	0.0000
	White	37.0 (1.9)	48.6 (1.3)	0.0000
	Hispanic	26.2 (1.7)	19.6 (1.0)	0.0000
How do you describe yourself? (Select	American Indian/Alaska Native	3.8 (0.8)	3.3 (0.5)	0.2728
one or more responses.)	Asian	6.8 (1.0)	8.6 (0.7)	0.0062
	Black/African American	7.2 (1.0)	4.5 (0.5)	0.0000
	Pacific Islander	2.6 (0.6)	1.7 (0.4)	0.0152

Table 2b: Comparison of student characteristics among all 8th grade respondents to completers in the state sample (simulating bias).

Question	Options	Non- completers Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	77.5 (0.9)	79.6 (1.1)	0.0053
your grades like last year?	Mostly C's, D's, or F's	22.5 (0.9)	20.4 (1.1)	0.0055
I feel safe at my school.	Yes!/Mostly & yes/def. true	83.7 (0.8)	84.4 (0.9)	0.2370
Theer sale at my school.	no/mostly & NO/def not true	16.3 (0.8)	15.6 (0.9)	
How far did your mother get in	Graduated HS or more	85.0 (0.9)	86.2 (1.0)	0.0707
school?	Didn't graduate HS	15.1 (0.9)	13.8 (1.0)	0.0787
Living situation due to finances	No	94.4 (0.5)	94.5 (0.6)	0.0125
Living situation due to finances	Yes	5.7 (0.5)	5.6 (0.6)	0.8125
low often in the past 12 months did	None	89.9 (0.7)	90.2 (0.8)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	10.1 (0.7)	9.8 (0.8)	0.5623
When was the last time you saw a	In the past year	76.8 (1.3)	79.0 (1.5)	0.0301
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	23.3 (1.3)	21.0 (1.5)	
Do you receive free or reduced price	No	62.9 (1.6)	64.8 (1.8)	0.1328
lunches at school?	Yes	37.1 (1.6)	35.2 (1.8)	
During the past 30 days, on how many	None	97.0 (0.9)	97.1 (1.1)	0.7269
days did you smoke cigarettes?	At least 1 day	3.0 (0.9)	2.9 (1.1)	0.7209
During the past 30 days, on how many	None	93.7 (0.5)	94.4 (0.6)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	6.3 (0.5)	5.6 (0.6)	0.0940
Think back over the last 2 weeks. How	None	96.0 (0.4)	96.4 (0.5)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	4.0 (0.4)	3.6 (0.5)	0.2715
During the past 30 days, on how many	None	92.6 (0.6)	92.8 (0.7)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	7.5 (0.6)	7.2 (0.7)	0.5362
What language is usually spoken at	English	78.4 (0.9)	80.5 (1.0)	
home?	Other language	21.6 (0.9)	19.5 (1.0)	0.0025
	White	45.1 (1.1)	48.6 (1.3)	0.0001
	Hispanic	21.6 (0.9)	19.6 (1.0)	0.0052
How do you describe yourself? (Select	American Indian/Alaska Native	3.5 (0.4)	3.3 (0.5)	0.6406
one or more responses.)	Asian	8.1 (0.6)	8.6 (0.7)	0.2541
	Black/African American	5.3 (0.5)	4.5 (0.5)	0.0280
	Pacific Islander	2.0 (0.3)	1.7 (0.4)	0.2930

Table 2c: Comparison of student characteristics among 8th grade non-completers to completers in census schools.

Question	Options	Non- completers Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	70.7 (0.8)	81.1 (0.4)	
your grades like last year?	Mostly C's, D's, or F's	29.3 (0.8)	18.9 (0.4)	0.0000
	Yes!/Mostly & yes/def. true	81.5 (0.6)	84.2 (0.4)	
I feel safe at my school.	no/mostly & NO/def not true	18.6 (0.6)	15.8 (0.4)	0.0000
How far did your mother get in	Graduated HS or more	82.4 (0.8)	87.6 (0.4)	0.0000
school?	Didn't graduate HS	17.6 (0.8)	12.4 (0.4)	0.0000
Living cituation due to finances	No	94.4 (0.4)	94.6 (0.2)	0.6167
Living situation due to finances	Yes	5.6 (0.4)	5.5 (0.2)	0.6167
How often in the past 12 months did	None	89.2 (0.6)	90.0 (0.3)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	10.8 (0.6)	10.0 (0.3)	0.0000
When was the last time you saw a	In the past year	69.4 (1.2)	80.0 (0.5)	0.0000
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	30.6 (1.2)	20.0 (0.5)	
Do you receive free or reduced price	No	56.8 (1.5)	66.7 (0.6)	0.0000
lunches at school?	Yes	43.2 (1.5)	33.3 (0.6)	
During the past 30 days, on how many	None	96.7 (0.3)	97.2 (0.2)	0.0012
days did you smoke cigarettes?	At least 1 day	3.4 (0.3)	2.8 (0.2)	
During the past 30 days, on how many	None	92.9 (0.5)	94.3 (0.2)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	7.1 (0.5)	5.7 (0.2)	0.0000
Think back over the last 2 weeks. How	None	95.5 (0.4)	96.3 (0.2)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	4.5 (0.4)	3.7 (0.2)	0.0002
During the past 30 days, on how many	None	92.0 (0.5)	92.6 (0.3)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	8.1 (0.5)	7.4 (0.3)	0.0163
What language is usually spoken at	English	75.5 (0.7)	80.5 (0.4)	0.0000
home?	Other language	24.5 (0.7)	19.5 (0.4)	0.0000
	White	38.6 (0.8)	49.7 (0.5)	0.0000
	Hispanic	23.4 (0.7)	17.9 (0.4)	0.0000
How do you describe yourself? (Select	American Indian/Alaska Native	4.6 (0.3)	3.3 (0.2)	0.0000
one or more responses.)	Asian	6.9 (0.4)	10.3 (0.3)	0.0000
	Black/African American	6.8 (0.4)	3.8 (0.2)	0.0000
	Pacific Islander	2.2 (0.2)	1.8 (0.1)	0.0006

Table 2d: Comparison of student characteristics among all 8th grade respondents to completers in census schools (simulating bias).

Question	Options	Non- completers Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	78.9 (0.3)	79.6 (1.1)	0.2112
your grades like last year?	Mostly C's, D's, or F's	21.2 (0.3)	20.4 (1.1)	0.2112
I faal safa at mu sahaal	Yes!/Mostly & yes/def. true	83.5 (0.3)	84.4 (0.9)	0.0847
I feel safe at my school.	no/mostly & NO/def not true	16.5 (0.3)	15.6 (0.9)	0.0847
How far did your mother get in	Graduated HS or more	86.6 (0.3)	86.2 (1.0)	
school?	Didn't graduate HS	13.4 (0.3)	13.8 (1.0)	0.4543
	No	94.5 (0.2)	94.5 (0.6)	
Living situation due to finances	Yes	5.5 (0.2)	5.6 (0.6)	0.8237
How often in the past 12 months did you or your family have to cut meal size or skip meals because there wasn't enough money for food?	None	89.8 (0.3)	90.2 (0.8)	
	At least once	10.2 (0.3)	9.8 (0.8)	0.4216
When was the last time you saw a	In the past year	78.0 (0.5)	79.0 (1.5)	
ntist for a check–up, exam, teeth eaning, or other dental work?	More than a year ago	22.0 (0.5)	21.0 (1.5)	0.2133
Do you receive free or reduced price	No	65.1 (0.6)	64.8 (1.8)	0.7594
lunches at school?	Yes	34.9 (0.6)	35.2 (1.8)	
During the past 30 days, on how many	None	97.1 (0.3)	97.1 (1.1)	0.9941
days did you smoke cigarettes?	At least 1 day	2.9 (0.3)	2.9 (1.1)	0.9941
During the past 30 days, on how many	None	94.0 (0.2)	94.4 (0.6)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	6.1 (0.2)	5.6 (0.6)	0.1887
Think back over the last 2 weeks. How	None	96.1 (0.2)	96.4 (0.5)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	3.9 (0.2)	3.6 (0.5)	0.2805
During the past 30 days, on how many	None	92.4 (0.2)	92.8 (0.7)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	7.6 (0.2)	7.2 (0.7)	0.2886
What language is usually spoken at	English	79.3 (0.3)	80.5 (1.0)	0.000-
home?	Other language	20.7 (0.3)	19.5 (1.0)	0.0287
	White	46.9 (0.4)	48.6 (1.3)	0.0134
	Hispanic	19.3 (0.3)	19.6 (1.0)	0.5633
How do you describe yourself? (Select	American Indian/Alaska Native	3.7 (0.2)	3.3 (0.5)	0.1841
one or more responses.)	Asian	9.4 (0.2)	8.6 (0.7)	0.0588
	Black/African American	4.6 (0.2)	4.5 (0.5)	0.7207
	Pacific Islander	1.9 (0.1)	1.7 (0.4)	0.4595

Non-completion among 10th Grade

- a. Non-completers in the state sample were more likely to report low grades in school, not feeling safe at school, having a mother that didn't graduate high school, skipping/cutting meals due to finances, not seeing a dentist, current marijuana use, and living in a home where English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be Hispanic, American Indian/Alaska Native or Black/African American.
- b. All respondents in the state sample were more likely to report low grades in school, not feeling safe at school, having a mother that didn't graduate high school, skipping/cutting meals due to finances, not seeing a dentist, current cigarette smoking, current marijuana use, binge drinking, current alcohol drinking, and living in a home where English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be American Indian/Alaska Native.
- c. Non-completers in census schools were more likely to report low grades in school, not feeling safe at school, having a mother that didn't graduate high school, skipping/cutting meals due to finances, not seeing a dentist, current cigarette smoking, current marijuana use, binge drinking, current alcohol drinking, and living in a home where English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be Hispanic, American Indian/Alaska Native or Black/African American.
- d. All respondents to completers in census schools were more likely to report low grades in school, not feeling safe at school, having a mother that didn't graduate high school, skipping/cutting meals due to finances, not seeing a dentist, current cigarette smoking, current marijuana use, binge drinking, and living in a home where English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be Hispanic, American Indian/Alaska Native or Black/African American.

Table 3a: Comparison of student characteristics among 10th grade non-completers to completers in the state sample.

Question	Options	Non- completers Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	61.7 (2.5)	77.8 (0.9)	
your grades like last year?	Mostly C's, D's, or F's	38.3 (2.5)	22.2 (0.9)	0.0000
	Yes!/Mostly & yes/def. true	81.1 (1.8)	83.3 (0.8)	0 0 0 0 7
I feel safe at my school.	no/mostly & NO/def not true	18.9 (1.8)	16.7 (0.8)	0.0227
How far did your mother get in	Graduated HS or more	76.1 (2.5)	85.2 (0.8)	
school?	Didn't graduate HS	23.9 (2.5)	14.8 (0.8)	0.0000
	No	93.3 (1.3)	94.3 (0.5)	
Living situation due to finances	Yes	6.7 (1.3)	5.7 (0.5)	0.1457
How often in the past 12 months did	None	86.1 (1.9)	88.1 (0.7)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	13.9 (1.9)	11.9 (0.7)	0.0401
When was the last time you saw a	In the past year	70.0 (3.7)	81.6 (1.2)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	30.0 (3.7)	18.4 (1.2)	0.0000
Do you receive free or reduced price	No	48.7 (4.6)	67.1 (1.5)	0.0000
unches at school?	Yes	51.3 (4.6)	32.9 (1.5)	
During the past 30 days, on how many	None	93.0 (1.3)	94.1 (0.5)	0.0696
days did you smoke cigarettes?	At least 1 day	7.1 (1.3)	5.9 (0.5)	
During the past 30 days, on how many	None	80.0 (2.0)	83.6 (0.8)	0.0004
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	20.0 (2.0)	16.4 (0.8)	
Think back over the last 2 weeks. How	None	88.4 (1.6)	89.8 (0.6)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	11.6 (1.6)	10.2 (0.6)	0.0941
During the past 30 days, on how many	None	79.1 (2.0)	80.1 (0.9)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	20.9 (2.0)	19.9 (0.9)	0.3546
What language is usually spoken at	English	72.3 (2.2)	82.1 (0.8)	
home?	Other language	27.7 (2.2)	17.9 (0.8)	0.0000
	White	40.3 (2.2)	57.9 (1.1)	0.0000
	Hispanic	36.3 (2.2)	20.9 (0.9)	0.0000
How do you describe yourself? (Select	American Indian/Alaska Native	4.1 (0.9)	2.1 (0.3)	0.0000
one or more responses.)	Asian	3.4 (0.8)	6.0 (0.5)	0.0000
	Black/African American	4.3 (0.9)	2.8 (0.4)	0.0007
	Pacific Islander	1.6 (0.5)	1.4 (0.3)	0.6253

Table 3b: Comparison of student characteristics among all 10th grade respondents to completers in the state sample (simulating bias).

Question	Options	All Respondents Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	75.4 (0.8)	77.8 (0.9)	0.0000
your grades like last year?	Mostly C's, D's, or F's	24.6 (0.8)	22.2 (0.9)	0.0000
I feel safe at my school.	Yes!/Mostly & yes/def. true	82.9 (0.7)	83.3 (0.8)	0.0784
	no/mostly & NO/def not true	17.1 (0.7)	16.7 (0.8)	0.0784
How far did your mother get in	Graduated HS or more	84.0 (0.8)	85.2 (0.8)	0.0008
school?	Didn't graduate HS	16.0 (0.8)	14.8 (0.8)	0.0008
Living the strength of the first second	No	94.1 (0.5)	94.3 (0.5)	0 4 2 7 0
Living situation due to finances	Yes	5.9 (0.5)	5.7 (0.5)	0.1279
How often in the past 12 months did	None	87.8 (0.6)	88.1 (0.7)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	12.2 (0.6)	11.9 (0.7)	0.5802
When was the last time you saw a	In the past year	80.2 (1.1)	81.6 (1.2)	0.0804
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	19.8 (1.1)	18.4 (1.2)	
Do you receive free or reduced price	No	65.3 (1.4)	67.1 (1.5)	0.0707
lunches at school?	Yes	34.7 (1.4)	32.9 (1.5)	
During the past 30 days, on how	None	94.0 (0.5)	94.1 (0.5)	0.5906
many days did you smoke cigarettes?	At least 1 day	6.1 (0.5)	5.9 (0.5)	0.5500
During the past 30 days, on how	None	83.1 (0.7)	83.6 (0.8)	
many days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	17.0 (0.7)	16.4 (0.8)	0.3042
Think back over the last 2 weeks.	None	89.6 (0.6)	89.8 (0.6)	
How many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	10.4 (0.6)	10.2 (0.6)	0.6296
During the past 30 days, on how	None	80.0 (0.8)	80.1 (0.9)	
many days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	20.1 (0.8)	19.9 (0.9)	0.7862
What language is usually spoken at	English	80.5 (0.8)	82.1 (0.8)	0.0053
home?	Other language	19.5 (0.8)	17.9 (0.8)	0.0053
	White	54.6 (1.0)	57.9 (1.1)	0.0000
	Hispanic	23.8 (0.8)	20.9 (0.9)	0.0000
How do you describe yourself?	American Indian/Alaska Native	2.4 (0.3)	2.1 (0.3)	0.0782
(Select one or more responses.)	Asian	5.6 (0.5)	6.0 (0.5)	0.1546
	Black/African American	3.1 (0.3)	2.8 (0.4)	0.2678
	Pacific Islander	1.4 (0.2)	1.4 (0.3)	0.8748

Table 3c: Comparison of student characteristics among 10th grade non-completers to completers in census schools.

Question	Options	Non- completers Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	65.5 (1.1)	77.4 (0.4)	0.000
your grades like last year?	Mostly C's, D's, or F's	34.5 (1.1)	22.6 (0.4)	0.0000
	Yes!/Mostly & yes/def. true	79.9 (0.8)	83.7 (0.4)	0.000
feel safe at my school.	no/mostly & NO/def not true	20.1 (0.8)	16.4 (0.4)	0.0000
How far did your mother get in	Graduated HS or more	79.6 (1.0)	86.1 (0.4)	
school?	Didn't graduate HS	20.4 (1.0)	13.9 (0.4)	0.0000
	No	93.7 (0.6)	94.1 (0.2)	
Living situation due to finances	Yes	6.3 (0.6)	5.9 (0.2)	0.1851
How often in the past 12 months did	None	86.4 (0.8)	87.9 (0.3)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	13.6 (0.8)	12.1 (0.3)	0.0011
When was the last time you saw a	In the past year	72.0 (1.6)	80.9 (0.5)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	28.0 (1.6)	19.1 (0.5)	0.0000
Do you receive free or reduced price	No	55.1 (2.0)	67.8 (0.6)	0.0000
lunches at school?	Yes	44.9 (2.0)	32.2 (0.6)	0.0000
During the past 30 days, on how many	None	91.7 (0.6)	93.9 (0.2)	0.0000
days did you smoke cigarettes?	At least 1 day	8.3 (0.6)	6.1 (0.2)	0.0000
During the past 30 days, on how many	None	80.8 (0.9)	84.7 (0.3)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	19.2 (0.9)	15.3 (0.3)	0.0000
Think back over the last 2 weeks. How	None	88.0 (0.7)	90.1 (0.3)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	12.0 (0.7)	9.9 (0.3)	0.0000
During the past 30 days, on how many	None	79.1 (0.9)	80.7 (0.4)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	20.9 (0.9)	19.3 (0.4)	0.0009
What language is usually spoken at	English	73.9 (1.0)	80.6 (0.4)	0 0000
home?	Other language	26.1 (1.0)	19.4 (0.4)	0.0000
	White	43.5 (1.0)	55.2 (0.5)	0.0000
	Hispanic	25.8 (0.9)	18.0 (0.4)	0.0000
How do you describe yourself? (Select	American Indian/Alaska Native	3.1 (0.4)	2.0 (0.1)	0.0000
one or more responses.)	Asian	7.2 (0.5)	9.5 (0.3)	0.0000
	Black/African American	6.2 (0.5)	3.6 (0.2)	0.0000
	Pacific Islander	2.1 (0.3)	1.8 (0.1)	0.0839

Table 4d: Comparison of student characteristics among all 10th grade respondents to completers in census schools (simulating bias).

Question	Options	All Respondents Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were your grades like last year?	Mostly A's or B's	75.7 (0.4)	77.8 (0.9)	0.0000
	Mostly C's, D's, or F's	24.3 (0.4)	22.2 (0.9)	0.0000
I feel safe at my school.	Yes!/Mostly & yes/def. true	83.0 (0.3)	83.3 (0.8)	0.0784
	no/mostly & NO/def not true	17.0 (0.3)	16.7 (0.8)	0.0784
How far did your mother get in	Graduated HS or more	85.3 (0.3)	85.2 (0.8)	0.0008
school?	Didn't graduate HS	14.7 (0.3)	14.8 (0.8)	0.0008
	No	94.1 (0.2)	94.3 (0.5)	0.4070
Living situation due to finances	Yes	5.9 (0.2)	5.7 (0.5)	0.1279
How often in the past 12 months did	None	87.7 (0.3)	88.1 (0.7)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	12.3 (0.3)	11.9 (0.7)	0.5802
When was the last time you saw a	In the past year	79.8 (0.5)	81.6 (1.2)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	20.2 (0.5)	18.4 (1.2)	0.0053
Do you receive free or reduced price	No	66.6 (0.6)	67.1 (1.5)	0.4861
nches at school?	Yes	33.4 (0.6)	32.9 (1.5)	0.4001
During the past 30 days, on how	None	93.6 (0.2)	94.1 (0.5)	0.0483
many days did you smoke cigarettes?	At least 1 day	6.4 (0.2)	5.9 (0.5)	0.0485
During the past 30 days, on how	None	84.1 (0.3)	83.6 (0.8)	
many days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	15.9 (0.3)	16.4 (0.8)	0.3042
Think back over the last 2 weeks.	None	89.8 (0.3)	89.8 (0.6)	
How many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	10.2 (0.3)	10.2 (0.6)	0.6296
During the past 30 days, on how	None	80.5 (0.4)	80.1 (0.9)	
many days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	19.5 (0.4)	19.9 (0.9)	0.7862
What language is usually spoken at	English	79.5 (0.4)	82.1 (0.8)	0.0050
home?	Other language	20.5 (0.4)	17.9 (0.8)	0.0053
	White	53.1 (0.4)	57.9 (1.1)	0.0000
	Hispanic	19.4 (0.3)	20.9 (0.9)	0.0000
How do you describe yourself? (Select one or more responses.)	American Indian/Alaska Native	2.2 (0.1)	2.1 (0.3)	0.0782
	Asian	9.1 (0.3)	6.0 (0.5)	0.1546
	Black/African American	4.1 (0.2)	2.8 (0.4)	0.2678
	Pacific Islander	1.9 (0.1)	1.4 (0.3)	0.8748

Non-completion among 12th Grade

- a. Non-completers in the state sample were more likely to report low grades in school, not feeling safe at school, having a mother that didn't graduate high school, not seeing a dentist, current cigarette smoking, current marijuana use, and living in a home where English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be Hispanic or Black/African American.
- b. All respondents in the state sample were more likely to report low grades in school, not feeling safe at school, having a mother that didn't graduate high school, not seeing a dentist, current cigarette smoking, current marijuana use, and living in a home where English isn't usually spoken. Non-completers were less likely to be white, and more likely to be Black/African American.
- c. Non-completers in census schools were more likely to report low grades in school, not feeling safe at school, having a mother that didn't graduate high school, living situation due to finances, skipping/cutting meals due to finances, not seeing a dentist, current cigarette smoking, current marijuana use, binge drinking, and living in a home where English isn't usually spoken. Non-completers were less likely to be white or Asian, and more likely to be Hispanic or Black/African American.
- d. All respondents compared to completers in census schools were more likely to report low grades in school, not feeling safe at school, having a mother that didn't graduate high school, current cigarette smoking, current marijuana use, and living in a home where English isn't usually spoken. Non-completers were less likely to be white, and more likely to be Hispanic or Black/African American.

Table 4a: Comparison of student characteristics among 12th grade non-completers to completers in the state sample.

Question	Options	Non- completers Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	62.9 (3.5)	72.0 (1.1)	0.0000
your grades like last year?	Mostly C's, D's, or F's	37.1 (3.5)	28.0 (1.1)	0.0000
	Yes!/Mostly & yes/def. true	82.3 (2.4)	85.2 (0.9)	0.0104
I feel safe at my school.	no/mostly & NO/def not true	17.7 (2.4)	14.8 (0.9)	0.0194
How far did your mother get in	Graduated HS or more	77.5 (3.3)	84.0 (1.0)	0 0000
school?	Didn't graduate HS	22.5 (3.3)	16.0 (1.0)	0.0000
	No	92.6 (1.9)	94.1 (0.6)	
Living situation due to finances	Yes	7.4 (1.9)	5.9 (0.6)	0.1034
How often in the past 12 months did	None	82.4 (2.9)	84.7 (0.9)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	17.6 (2.9)	15.3 (0.9)	0.1375
When was the last time you saw a	In the past year	73.3 (4.8)	78.6 (1.4)	
lentist for a check–up, exam, teeth leaning, or other dental work?	More than a year ago	26.8 (4.8)	21.4 (1.4)	0.0249
Do you receive free or reduced price	No	54.1 (6.3)	65.8 (1.7)	0.0003
lunches at school?	Yes	45.9 (6.3)	34.2 (1.7)	0.0005
During the past 30 days, on how many	None	86.9 (2.2)	89.6 (0.8)	0.0178
days did you smoke cigarettes?	At least 1 day	13.1 (2.2)	10.4 (0.8)	0.0178
During the past 30 days, on how many	None	70.1 (3.1)	74.3 (1.1)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	29.9 (3.1)	25.7 (1.1)	0.0094
Think back over the last 2 weeks. How	None	81.1 (2.7)	82.2 (1.0)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	18.9 (2.7)	17.8 (1.0)	0.4132
During the past 30 days, on how many	None	69.0 (3.1)	67.9 (1.2)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	31.1 (3.1)	32.1 (1.2)	0.5498
What language is usually spoken at	English	75.8 (2.9)	83.3 (0.9)	0 0000
home?	Other language	24.2 (2.9)	16.7 (0.9)	0.0000
	White	47.4 (3.0)	60.0 (1.2)	0.0000
	Hispanic	31.8 (2.8)	21.9 (1.0)	0.0000
How do you describe yourself? (Select	American Indian/Alaska Native	2.0 (0.8)	1.7 (0.3)	0.5919
one or more responses.)	Asian	3.2 (1.1)	5.0 (0.5)	0.0098
	Black/African American	4.7 (1.3)	2.8 (0.4)	0.0008
	Pacific Islander	1.2 (0.7)	1.2 (0.3)	0.9575

Table 4b: Comparison of student characteristics among all 12th grade respondents to completers in the state sample (simulating bias).

Question	Options	All Respondents Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were your grades like last year?	Mostly A's or B's	71.1 (1.1)	72.0 (1.1)	0.2208
	Mostly C's, D's, or F's	28.9 (1.1)	28.0 (1.1)	0.2208
I feel safe at my school.	Yes!/Mostly & yes/def. true	84.8 (0.8)	85.2 (0.9)	0.5214
	no/mostly & NO/def not true	15.2 (0.8)	14.8 (0.9)	0.5214
How far did your mother get in	Graduated HS or more	83.3 (0.9)	84.0 (1.0)	0.3386
school?	Didn't graduate HS	16.7 (0.9)	16.0 (1.0)	0.3380
Living situation due to finances	No	94.0 (0.6)	94.1 (0.6)	0.000
Living situation due to finances	Yes	6.0 (0.6)	5.9 (0.6)	0.6882
How often in the past 12 months did	None	84.4 (0.9)	84.7 (0.9)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	15.6 (0.9)	15.3 (0.9)	0.7385
When was the last time you saw a	In the past year	78.1 (1.4)	78.6 (1.4)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	21.9 (1.4)	21.4 (1.4)	0.6202
Do you receive free or reduced price	No	65.0 (1.6)	65.8 (1.7)	0.4744
unches at school?	Yes	35.0 (1.6)	34.2 (1.7)	0.4744
During the past 30 days, on how	None	89.3 (0.7)	89.6 (0.8)	0.5403
many days did you smoke cigarettes?	At least 1 day	10.8 (0.7)	10.4 (0.8)	0.5405
During the past 30 days, on how	None	73.8 (1.0)	74.3 (1.1)	
many days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	26.2 (1.0)	25.7 (1.1)	0.5114
Think back over the last 2 weeks.	None	82.1 (0.9)	82.2 (1.0)	
How many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	17.9 (0.9)	17.8 (1.0)	0.8387
During the past 30 days, on how	None	68.1 (1.1)	67.9 (1.2)	
many days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	31.9 (1.1)	32.1 (1.2)	0.8789
What language is usually spoken at	English	82.4 (0.9)	83.3 (0.9)	0.4625
home?	Other language	17.6 (0.9)	16.7 (0.9)	0.1635
	White	58.1 (1.1)	60.0 (1.2)	0.0292
	Hispanic	23.4 (1.0)	21.9 (1.0)	0.0444
How do you describe yourself?	American Indian/Alaska Native	1.8 (0.3)	1.7 (0.3)	0.8793
(Select one or more responses.)	Asian	4.7 (0.5)	5.0 (0.5)	0.4714
	Black/African American	3.1 (0.4)	2.8 (0.4)	0.3335
	Pacific Islander	1.2 (0.3)	1.2 (0.3)	0.9880

Table 4c: Comparison of student characteristics among 12th grade non-completers to completers in census schools.

Question	Options	Non- completers Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	v	72.6 (0.5)	0.0000
your grades like last year?	Mostly C's, D's, or F's	38.0 (1.5)	27.4 (0.5)	0.0000
	Yes!/Mostly & yes/def. true	81.9 (1.1)	85.6 (0.4)	
feel safe at my school.	no/mostly & NO/def not true	18.1 (1.1)	14.4 (0.4)	0.0000
How far did your mother get in	Graduated HS or more	80.6 (1.4)	84.9 (0.4)	0.0000
school?	Didn't graduate HS	19.4 (1.4)	15.1 (0.4)	0.0000
	No	92.2 (0.8)	93.9 (0.3)	
Living situation due to finances	Yes	7.8 (0.8)	6.1 (0.3)	0.0001
How often in the past 12 months did	None	82.3 (1.3)	85.5 (0.4)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	17.7 (1.3)	14.5 (0.4)	0.0000
When was the last time you saw a	In the past year	71.2 (2.2)	77.9 (0.6)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	28.8 (2.2)	22.1 (0.6)	0.0000
Do you receive free or reduced price	No	56.9 (2.8)	66.4 (0.7)	0.0000
lunches at school?	Yes	0.0 (0.0)	0.0 (0.0)	0.0000
During the past 30 days, on how many	None	86.0 (1.0)	89.6 (0.3)	0.0000
days did you smoke cigarettes?	At least 1 day	14.0 (1.0)	10.4 (0.3)	0.0000
During the past 30 days, on how many	None	70.0 (1.4)	75.1 (0.5)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	30.0 (1.4)	24.9 (0.5)	0.0000
Think back over the last 2 weeks. How	None	80.0 (1.2)	82.8 (0.4)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	20.1 (1.2)	17.2 (0.4)	0.0000
During the past 30 days, on how many	None	66.9 (1.4)	68.1 (0.5)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	33.2 (1.4)	31.9 (0.5)	0.0921
What language is usually spoken at	English	75.9 (1.3)	81.6 (0.4)	0.0000
home?	Other language	24.1 (1.3)	18.4 (0.4)	0.0000
	White	47.5 (1.4)	57.3 (0.5)	0.0000
	Hispanic	23.5 (1.1)	18.9 (0.4)	0.0000
How do you describe yourself? (Select one or more responses.)	American Indian/Alaska Native	2.3 (0.4)	1.9 (0.1)	0.0636
	Asian	6.2 (0.6)	8.4 (0.3)	0.0000
	Black/African American	7.5 (0.7)	3.7 (0.2)	0.0000
	Pacific Islander	2.0 (0.4)	1.7 (0.1)	0.1033

Table 4d: Comparison of student characteristics among all 12th grade respondents to completers in census schools (simulating bias).

Question	Options	All Respondents Percent (±Cl)	Completers Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	71.4 (0.5)	72.0 (1.1)	0.3348
our grades like last year?	Mostly C's, D's, or F's	28.6 (0.5)	28.0 (1.1)	
I feel safe at my school.	Yes!/Mostly & yes/def. true	85.1 (0.4)	85.2 (0.9)	0.8326
	no/mostly & NO/def not true	14.9 (0.4)	14.8 (0.9)	0.0020
How far did your mother get in	Graduated HS or more	84.5 (0.4)	84.0 (1.0)	0.3358
school?	Didn't graduate HS	15.5 (0.4)	16.0 (1.0)	0.3350
Living situation due to finances	No	93.7 (0.3)	94.1 (0.6)	0.1823
Living situation due to marices	Yes	6.3 (0.3)	5.9 (0.6)	0.1825
How often in the past 12 months did	None	85.2 (0.4)	84.7 (0.9)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	14.8 (0.4)	15.3 (0.9)	0.2655
When was the last time you saw a	In the past year	77.3 (0.6)	78.6 (1.4)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	22.7 (0.6)	21.4 (1.4)	0.0938
Do you receive free or reduced price	No	65.7 (0.7)	65.8 (1.7)	0.9370
unches at school?	Yes	34.3 (0.7)	34.2 (1.7)	
During the past 30 days, on how many	None	89.2 (0.3)	89.6 (0.8)	0.3292
days did you smoke cigarettes?	At least 1 day	10.8 (0.3)	10.4 (0.8)	0.3232
During the past 30 days, on how many	None	74.5 (0.5)	74.3 (1.1)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	25.5 (0.5)	25.7 (1.1)	0.7233
Think back over the last 2 weeks. How	None	82.5 (0.4)	82.2 (1.0)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	17.6 (0.4)	17.8 (1.0)	0.6688
During the past 30 days, on how many	None	68.0 (0.5)	67.9 (1.2)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	32.0 (0.5)	32.1 (1.2)	0.9520
What language is usually spoken at	English	80.9 (0.4)	83.3 (0.9)	0.0000
home?	Other language	19.1 (0.4)	16.7 (0.9)	0.0000
	White	55.9 (0.5)	60.0 (1.2)	0.0000
	Hispanic	19.5 (0.4)	21.9 (1.0)	0.0000
How do you describe yourself? (Select	American Indian/Alaska Native	1.9 (0.1)	1.7 (0.3)	0.3093
one or more responses.)	Asian	8.0 (0.3)	5.0 (0.5)	0.0000
	Black/African American	4.2 (0.2)	2.8 (0.4)	0.0000
	Pacific Islander	1.7 (0.1)	1.2 (0.3)	0.0031

Appendix D: Student Characteristics by Optional Questions

Methods

Risk ratio tables comparing student characteristics of respondents who answered optional questions compared to those that did not are provided in Section 8. Student-Level Optional Question Bias. Differences in student characteristics show if respondents who took the optional questions are different from those that did not take them. Differences may indicate that the optional questions results may have bias.

Risk ratio tables comparing all survey respondents to optional question takers are also provided in Section 8. Student-Level Optional Question Bias. Comparing all respondents to optional question takers shows the potential magnitude of the bias on the actual optional survey question results.

Instead of presenting risk ratios, Tables 1-4 show the differences in prevalence for selected student characteristic questions by grade for:

- a. Non-optional question takers versus optional question takers in the state sample
- b. All respondents versus optional question takers in the state sample
- c. Non-optional question takers versus optional question takers in census schools
- d. All respondents versus optional question takers in census schools

Results

Optional Question Taking among 8th Grade

Compared to optional question takers:

- a. Non-optional question takers in the state sample were more likely to report lower grades in school, not seeing a dentist, and less likely to be Asian.
- b. All respondents in the state sample were similar to optional question takers.
- c. Non-optional question takers in census schools were more likely to report low grades in school, not feeling safe in school, having a mother who didn't graduate high school, not seeing a dentist, receiving free/reduced lunch, were more likely to report current marijuana use, were more likely to live in a non-English speaking home, to be Hispanic, to be American Indian/Alaska Native, to be Black /African American; and less likely to be White or Asian.
- d. All respondents in census schools were more likely to report low grades in school, to have a mother who didn't graduate high school, not seeing a dentist, receiving free/reduced lunch, to live in a non-English speaking home to be Hispanic, or American Indian/Alaska Native; and less likely to be White or Asian.

Table 1a: Comparison of student characteristics among 8 th grade non-optional question takers to
optional question takers in the state sample.

Question	Options	Did Not Administered Optional Questions Percent (±CI)	Administered Optional Questions Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	76.1 (1.3)	78.6 (1.3)	0.0000
your grades like last year?	Mostly C's, D's, or F's	23.9 (1.3)	21.4 (1.3)	0.0089
	Yes!/Mostly & yes/def. true	83.9 (1.1)	83.2 (1.2)	0.0507
I feel safe at my school.	no/mostly & NO/def not true	16.1 (1.1)	16.9 (1.2)	0.3587
How far did your mother get in	Graduated HS or more	84.8 (1.3)	85.2 (1.3)	0.0500
school?	Didn't graduate HS	15.2 (1.3)	14.8 (1.3)	0.6562
Living alternation alternation for an	No	94.2 (0.7)	94.4 (0.8)	0.0400
Living situation due to finances	Yes	5.9 (0.7)	5.6 (0.8)	0.6469
How often in the past 12 months did	None	89.8 (0.9)	89.6 (1.0)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	10.2 (0.9)	10.4 (1.0)	0.7796
When was the last time you saw a	In the past year	74.6 (1.9)	78.2 (1.8)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	25.4 (1.9)	21.8 (1.8)	0.0061
Do you receive free or reduced price	No	62.8 (2.3)	62.0 (2.3)	0.6183
lunches at school?	Yes	37.2 (2.3)	38.1 (2.3)	
During the past 30 days, on how many	None	97.1 (0.5)	96.6 (0.6)	0.1891
days did you smoke cigarettes?	At least 1 day	2.9 (0.5)	3.4 (0.6)	0.1691
During the past 30 days, on how many	None	93.4 (0.7)	93.7 (0.8)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	6.6 (0.7)	6.3 (0.8)	0.5720
Think back over the last 2 weeks. How	None	96.2 (0.6)	95.6 (0.6)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	3.8 (0.6)	4.4 (0.6)	0.1616
During the past 30 days, on how many	None	92.8 (0.8)	92.0 (0.9)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	7.2 (0.8)	8.0 (0.9)	0.1516
What language is usually spoken at	English	78.4 (1.2)	78.2 (1.3)	0.0124
home?	Other language	21.6 (1.2)	21.8 (1.3)	0.8124
	White	44.5 (1.4)	45.4 (1.6)	0.3764
How do you describe yourself? (Select	Hispanic	21.5 (1.2)	21.4 (1.3)	0.9118
	American Indian/Alaska Native	3.6 (0.5)	3.4 (0.6)	0.7411
one or more responses.)	Asian	7.6 (0.7)	8.9 (0.9)	0.0253
	Black/African American	5.6 (0.6)	5.1 (0.7)	0.3171
	Pacific Islander	2.2 (0.4)	2.0 (0.5)	0.4881

Table 1b: Comparison of student characteristics among all 8 th grade respondents to optional question
takers in the state sample (simulating bias).

Question	Options	All Respondents Percent (±Cl)	Administered Optional Questions Percent (±CI)	Difference p-value
Putting them all together, what were	Mostly A's or B's	77.3 (0.9)	78.6 (1.3)	0.1128
your grades like last year?	Mostly C's, D's, or F's	22.7 (0.9)	21.4 (1.3)	
	Yes!/Mostly & yes/def. true	83.6 (0.8)	83.2 (1.2)	
I feel safe at my school.	no/mostly & NO/def not true	16.4 (0.8)	16.9 (1.2)	0.5722
How far did your mother get in	Graduated HS or more	85.0 (0.9)	85.2 (1.3)	
school?	Didn't graduate HS	15.0 (0.9)	14.8 (1.3)	0.7911
	No	94.3 (0.5)	94.4 (0.8)	
Living situation due to finances	Yes	5.7 (0.5)	5.6 (0.8)	0.7809
How often in the past 12 months did	None	89.7 (0.7)	89.6 (1.0)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	10.3 (0.7)	10.4 (1.0)	0.8689
When was the last time you saw a	In the past year	76.3 (1.3)	78.2 (1.8)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	23.7 (1.3)	21.8 (1.8)	0.0993
Do you receive free or reduced price	No	62.4 (1.6)	62.0 (2.3)	0 7725
lunches at school?	Yes	37.6 (1.6)	38.1 (2.3)	0.7725
During the past 30 days, on how many	None	96.9 (0.4)	96.6 (0.6)	0 4202
days did you smoke cigarettes?	At least 1 day	3.1 (0.4)	3.4 (0.6)	0.4293
During the past 30 days, on how many	None	93.6 (0.5)	93.7 (0.8)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	6.4 (0.5)	6.3 (0.8)	0.7303
Think back over the last 2 weeks. How	None	96.0 (0.4)	95.6 (0.6)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	4.0 (0.4)	4.4 (0.6)	0.4026
During the past 30 days, on how many	None	92.4 (0.6)	92.0 (0.9)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	7.6 (0.6)	8.0 (0.9)	0.3870
What language is usually spoken at	English	78.3 (0.9)	78.2 (1.3)	0 0017
home?	Other language	21.7 (0.9)	21.8 (1.3)	0.8847
	White	44.9 (1.1)	45.4 (1.6)	0.5830
	Hispanic	21.5 (0.9)	21.4 (1.3)	0.9452
How do you describe yourself? (Select	American Indian/Alaska Native	3.5 (0.4)	3.4 (0.6)	0.8370
one or more responses.)	Asian	8.2 (0.6)	8.9 (0.9)	0.1702
	Black/African American	5.4 (0.5)	5.1 (0.7)	0.5315
	Pacific Islander	2.1 (0.3)	2.0 (0.5)	0.6642

Table 1c: Comparison of student characteristics among 8 th grade non-optional question takers to
optional question takers in census schools.

Question	Options	Did Not Administered Optional Questions Percent (±CI)	Administered Optional Questions Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	75.8 (0.5)	80.9 (0.4)	
your grades like last year?	Mostly C's, D's, or F's	24.2 (0.5)	19.1 (0.4)	0.0000
	Yes!/Mostly & yes/def. true	83.0 (0.4)	83.8 (0.4)	0.0100
I feel safe at my school.	no/mostly & NO/def not true	17.0 (0.4)	16.3 (0.4)	0.0100
How far did your mother get in	Graduated HS or more	84.7 (0.5)	87.9 (0.4)	
school?	Didn't graduate HS	15.3 (0.5)	12.1 (0.4)	0.0000
	Graduated HS or more	94.4 (0.3)	94.5 (0.3)	0.000
How far did your father get in school?	Didn't graduate HS	5.6 (0.3)	5.5 (0.3)	0.8629
How often in the past 12 months did	None	89.7 (0.4)	89.7 (0.3)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	10.4 (0.4)	10.3 (0.3)	0.7540
When was the last time you saw a	In the past year	75.5 (0.7)	79.5 (0.6)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	24.5 (0.7)	20.6 (0.6)	0.0000
Do you receive free or reduced price	No	61.3 (0.9)	67.3 (0.8)	0.0000
lunches at school?	Yes	38.7 (0.9)	32.7 (0.8)	
During the past 30 days, on how many	None	96.9 (0.2)	97.0 (0.2)	0.4816
days did you smoke cigarettes?	At least 1 day	3.1 (0.2)	3.0 (0.2)	0.4810
During the past 30 days, on how many	None	93.4 (0.3)	94.0 (0.3)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	6.6 (0.3)	6.0 (0.3)	0.0012
Think back over the last 2 weeks. How	None	95.8 (0.2)	96.0 (0.2)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	4.2 (0.2)	4.0 (0.2)	0.2297
During the past 30 days, on how many	None	92.2 (0.3)	92.4 (0.3)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	7.8 (0.3)	7.6 (0.3)	0.3768
What language is usually spoken at	English	78.0 (0.5)	80.2 (0.4)	0.0000
home?	Other language	22.0 (0.5)	19.8 (0.4)	0.0000
	White	44.1 (0.6)	48.8 (0.5)	0.0000
	Hispanic	21.4 (0.5)	17.5 (0.4)	0.0000
How do you describe yourself? (Select	American Indian/Alaska Native	4.2 (0.2)	3.4 (0.2)	0.0000
one or more responses.)	Asian	8.0 (0.3)	10.5 (0.3)	0.0000
	Black/African American	5.1 (0.3)	4.3 (0.2)	0.0000
	Pacific Islander	1.9 (0.2)	1.9 (0.1)	0.5889

Table 1d: Comparison of student characteristics among all 8 th grade respondents to optional question
takers in census schools (simulating bias).

Question	Options	All Respondents Percent (±Cl)	Administered Optional Questions Percent (±CI)	Difference p-value
Putting them all together, what were your grades like last year?	Mostly A's or B's	78.6 (0.3)	80.9 (0.4)	0.0000
	Mostly C's, D's, or F's	21.4 (0.3)	19.1 (0.4)	
I feel safe at my school.	Yes!/Mostly & yes/def. true	83.4 (0.3)	83.8 (0.4)	0.1521
	no/mostly & NO/def not true	16.6 (0.3)	16.3 (0.4)	
How far did your mother get in school?	Graduated HS or more	86.5 (0.3)	87.9 (0.4)	0.0000
	Didn't graduate HS	13.5 (0.3)	12.1 (0.4)	
Living situation due to finances	No	94.5 (0.2)	94.5 (0.3)	0.9255
	Yes	5.5 (0.2)	5.5 (0.3)	
How often in the past 12 months did you or your family have to cut meal size or skip meals because there wasn't enough money for food?	None	89.7 (0.3)	89.7 (0.3)	0.8684
	At least once	10.3 (0.3)	10.3 (0.3)	
When was the last time you saw a dentist for a check–up, exam, teeth cleaning, or other dental work?	In the past year	77.7 (0.5)	79.5 (0.6)	0.0000
	More than a year ago	22.3 (0.5)	20.6 (0.6)	
Do you receive free or reduced price lunches at school?	No	64.7 (0.6)	67.3 (0.8)	0.0000
	Yes	35.3 (0.6)	32.7 (0.8)	
During the past 30 days, on how many days did you smoke cigarettes?	None	97.0 (-0.1)	97.0 (0.2)	0.6998
	At least 1 day	3.1 (-0.1)	3.0 (0.2)	
During the past 30 days, on how many days did you: Use marijuana or hashish (weed, hash, pot)?	None	93.8 (-0.2)	94.0 (-0.3)	0.0751
	At least 1 day	6.3 (-0.2)	6.0 (-0.3)	
Think back over the last 2 weeks. How many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	None	95.9 (0.2)	96.0 (0.2)	0.5134
	At least once	4.1 (0.2)	4.0 (0.2)	
During the past 30 days, on how many days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	None	92.3 (0.2)	92.4 (0.3)	0.6290
	At least 1 day	7.7 (0.2)	7.6 (0.3)	
What language is usually spoken at home? How do you describe yourself? (Select one or more responses.)	English	79.2 (0.3)	80.2 (0.4)	0.0002
	Other language	20.9 (0.3)	19.8 (0.4)	
	White	46.6 (0.4)	48.8 (0.5)	0.0000
	Hispanic	19.4 (0.3)	17.5 (0.4)	0.0000
	American Indian/Alaska Native	3.8 (0.2)	3.4 (0.2)	0.0014
	Asian	9.4 (0.2)	10.5 (0.3)	0.0000
	Black/African American	4.7 (0.2)	4.3 (0.2)	0.0128
	Pacific Islander	1.9 (0.1)	1.9 (0.1)	0.7626

Optional Question Taking among 10th Grade

Compared to optional question takers:

- a. Non-optional question takers in the state sample were more likely to report lower grades in school, feeling unsafe at school, having a mother who didn't graduate high school, having to skip meals, not seeing a dentist, receiving free/reduced price lunch, to live in in a non-English speaking home, to be Hispanic, to be American Indian/Alaska Native or Black/African American; they were less likely to report current alcohol drinking and being white.
- b. All respondents in the state sample were more likely to report lower grades in school, having a mother that didn't graduate high school, living in a non-English speaking home, to be Hispanic, and more likely to be white.
- c. Non-optional question takers in census schools were more likely to report lower grades in school, not feeling safe at school, having a mother that didn't graduate high school, not seeing a dentist, receiving free/reduced lunch, current cigarette smoking, living in a non-English speaking home, to be Hispanic, American Indian/Alaska Native, or Black/African American; and more likely to report current alcohol drinking and to be white.
- d. All respondents in census schools were more likely to report lower grades in school, not feeling safe at school, not seeing a dentist, to be Hispanic, or American Indian/Alaska Native; and more likely to be white.

Table 2a: Comparison of student characteristics among 10th grade non-optional question takers to optional question takers in the state sample.

Question	Options	Did Not Administered Optional Questions Percent (±CI)	Administered Optional Questions Percent (±Cl)	Difference p-value
Putting them all together, what	Mostly A's or B's	70.6 (1.6)	77.1 (1.0)	0.000
were your grades like last year?	Mostly C's, D's, or F's	29.4 (1.6)	22.9 (1.0)	0.0000
I feel cofe at my school	Yes!/Mostly & yes/def. true	80.7 (1.3)	83.9 (0.9)	0.0000
I feel safe at my school.	no/mostly & NO/def not true	19.4 (1.3)	16.1 (0.9)	0.0000
How far did your mother get in	Graduated HS or more	81.3 (1.5)	85.2 (0.9)	0.0000
school?	Didn't graduate HS	18.8 (1.5)	14.8 (0.9)	0.0000
Living situation due to finances	No	93.7 (0.8)	94.3 (0.6)	0.2051
Living situation due to finances	Yes	6.3 (0.8)	5.8 (0.6)	0.2951
How often in the past 12 months	None	86.4 (1.2)	88.1 (0.8)	
did you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	13.7 (1.2)	11.9 (0.8)	0.0120
When was the last time you saw a	In the past year	76.1 (2.2)	81.3 (1.3)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	23.9 (2.2)	18.7 (1.3)	0.0000
Do you receive free or reduced	No	59.6 (2.7)	67.3 (1.6)	0.0000
price lunches at school?	Yes	40.4 (2.7)	32.8 (1.6)	
During the past 30 days, on how	None	94.0 (0.8)	93.6 (0.6)	0.3862
many days did you smoke cigarettes?	At least 1 day	6.0 (0.8)	6.4 (0.6)	
During the past 30 days, on how	None	82.7 (1.3)	82.8 (0.9)	
many days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	17.3 (1.3)	17.2 (0.9)	0.9240
Think back over the last 2 weeks.	None	89.2 (1.1)	89.1 (0.7)	
How many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	10.8 (1.1)	10.9 (0.7)	0.9079
During the past 30 days, on how	None	81.4 (1.3)	78.8 (1.0)	
many days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	18.6 (1.3)	21.2 (1.0)	0.0026
What language is usually spoken	English	76.5 (1.4)	82.3 (0.9)	0.0000
at home?	Other language	23.5 (1.4)	17.7 (0.9)	0.0000
	White	47.5 (1.6)	58.2 (1.2)	0.0000
	Hispanic	28.6 (1.5)	21.2 (1.0)	0.0000
How do you describe yourself?	American Indian/Alaska Native	3.2 (0.6)	2.0 (0.3)	0.0001
(Select one or more responses.)	Asian	5.0 (0.7)	5.8 (0.5)	0.0923
	Black/African American	3.8 (0.6)	2.8 (0.4)	0.0038
	Pacific Islander	1.7 (0.4)	1.3 (0.3)	0.0988

Table 2b: Comparison of student characteristics among all 10 th grader respondents to optional
question takers in the state sample (simulating bias).

Question	Options	All Respondents Percent (±Cl)	Administered Optional Questions Percent (±CI)	Difference p-value
Putting them all together, what were	Mostly A's or B's	75.0 (0.8)	77.1 (1.0)	
your grades like last year?	Mostly C's, D's, or F's	25.0 (0.8)	22.9 (1.0)	0.0020
	Yes!/Mostly & yes/def. true	82.8 (0.7)	83.9 (0.9)	0.0500
I feel safe at my school.	no/mostly & NO/def not true	17.2 (0.7)	16.1 (0.9)	0.0593
How far did your mother get in	Graduated HS or more	84.0 (0.8)	85.2 (0.9)	
school?	Didn't graduate HS	16.0 (0.8)	14.8 (0.9)	0.0492
	No	94.1 (0.5)	94.3 (0.6)	
Living situation due to finances	Yes	5.9 (0.5)	5.8 (0.6)	0.6459
How often in the past 12 months did	None	87.6 (0.6)	88.1 (0.8)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	12.4 (0.6)	11.9 (0.8)	0.2812
When was the last time you saw a	In the past year	79.8 (1.1)	81.3 (1.3)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	20.2 (1.1)	18.7 (1.3)	0.0807
Do you receive free or reduced price	No	65.2 (1.4)	67.3 (1.6)	0.0400*
lunches at school?	Yes	34.9 (1.4)	32.8 (1.6)	0.0498*
During the past 30 days, on how many	None	93.7 (0.5)	93.6 (0.6)	0.7047
days did you smoke cigarettes?	At least 1 day	6.3 (0.5)	6.4 (0.6)	
During the past 30 days, on how many	None	82.8 (0.7)	82.8 (0.9)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	17.2 (0.7)	17.2 (0.9)	0.9667
Think back over the last 2 weeks. How	None	89.1 (0.6)	89.1 (0.7)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	10.9 (0.6)	10.9 (0.7)	0.9599
During the past 30 days, on how many	None	79.7 (0.8)	78.8 (1.0)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	20.4 (0.8)	21.2 (1.0)	0.1898
What language is usually spoken at	English	80.4 (0.8)	82.3 (0.9)	0.0014
home?	Other language	19.6 (0.8)	17.7 (0.9)	0.0014
	White	54.5 (0.9)	58.2 (1.2)	0.0000
	Hispanic	23.8 (0.8)	21.2 (1.0)	0.0001
How do you describe yourself? (Select	American Indian/Alaska Native	2.4 (0.3)	2.0 (0.3)	0.0633
one or more responses.)	Asian	5.5 (0.4)	5.8 (0.5)	0.4471
	Black/African American	3.1 (0.3)	2.8 (0.4)	0.1772
	Pacific Islander	1.4 (0.2)	1.3 (0.3)	0.4432

95% confidence interval, p-value significant if less than 0.05 *Not significant when adjusted for gender

Table 2c: Comparison of student characteristics among 10 th grade non-optional question takers to
optional question takers in census schools.

Question	Options	Did Not Administered Optional Questions Percent (±CI)	Administered Optional Questions Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	72.2 (0.7)	76.8 (0.4)	
your grades like last year?	Mostly C's, D's, or F's	27.8 (0.7)	23.2 (0.4)	0.0000
	Yes!/Mostly & yes/def. true	81.4 (0.5)	83.5 (0.4)	
I feel safe at my school.	no/mostly & NO/def not true	18.6 (0.5)	16.5 (0.4)	0.0000
How far did your mother get in	Graduated HS or more	84.2 (0.6)	85.5 (0.4)	0.0000
school?	Didn't graduate HS	15.8 (0.6)	14.5 (0.4)	0.0002
	Graduated HS or more	94.0 (0.4)	94.0 (0.3)	0.0507
How far did your father get in school?	Didn't graduate HS	6.1 (0.4)	6.0 (0.3)	0.8587
How often in the past 12 months did	None	87.4 (0.5)	87.5 (0.4)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	12.6 (0.5)	12.5 (0.4)	0.7479
When was the last time you saw a	In the past year	77.5 (0.9)	80.4 (0.6)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	22.5 (0.9)	19.6 (0.6)	0.0000
Do you receive free or reduced price	No	64.7 (1.1)	67.0 (0.7)	0.0006
lunches at school?	Yes	35.3 (1.1)	33.0 (0.7)	0.0000
During the past 30 days, on how many	None	92.9 (0.4)	93.6 (0.3)	0.0028
days did you smoke cigarettes?	At least 1 day	7.1 (0.4)	6.4 (0.3)	0.0028
During the past 30 days, on how many	None	83.4 (0.5)	84.0 (0.4)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	16.6 (0.5)	16.0 (0.4)	0.0932**
Think back over the last 2 weeks. How	None	89.6 (0.5)	89.5 (0.3)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	10.4 (0.5)	10.5 (0.3)	0.5829
During the past 30 days, on how many	None	80.9 (0.6)	80.0 (0.4)	
ays did you: Drink a glass, can or ottle of alcohol (beer, wine, wine oolers, hard liquor)?	At least 1 day	19.1 (0.6)	20.0 (0.4)	0.0126
What language is usually spoken at	English	78.3 (0.6)	79.8 (0.4)	0.0001
home?	Other language	21.7 (0.6)	20.2 (0.4)	0.0001
How do you describe yourself? (Select one or more responses.)	White	50.2 (0.7)	54.4 (0.5)	0.0000
	Hispanic	20.9 (0.6)	18.7 (0.4)	0.0000
	American Indian/Alaska Native	2.6 (0.2)	2.0 (0.1)	0.0000
	Asian	8.8 (0.4)	9.2 (0.3)	0.1182
	Black/African American	4.6 (0.3)	3.9 (0.2)	0.0002
	Pacific Islander	1.8 (0.2)	1.9 (0.1)	0.3844

95% confidence interval, p-value significant if less than 0.05 **Significant when adjusted for gender

Question	Options	All Respondents Percent (±Cl)	Administered Optional Questions Percent (±Cl)	Difference p-value
Putting them all together, what	Mostly A's or B's	75.3 (0.4)	76.8 (0.4)	0.000
were your grades like last year?	Mostly C's, D's, or F's	24.7 (0.4)	23.2 (0.4)	0.0000
I feel safe at my school.	Yes!/Mostly & yes/def. true	82.8 (0.3)	83.5 (0.4)	0.0047
The safe at my school.	no/mostly & NO/def not true	17.2 (0.3)	16.5 (0.4)	0.0047
How far did your mother get in	Graduated HS or more	85.1 (0.3)	85.5 (0.4)	0.0973
school?	Didn't graduate HS	14.9 (0.3)	14.5 (0.4)	0.0973
Living cituation due to finances	No	94.0 (0.2)	94.0 (0.3)	0 0268
Living situation due to finances	Yes	6.0 (0.2)	6.0 (0.3)	0.9368
How often in the past 12 months	None	87.4 (0.3)	87.5 (0.4)	
did you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	12.6 (0.3)	12.5 (0.4)	0.8889
When was the last time you saw a	In the past year	79.5 (0.5)	80.4 (0.6)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	20.5 (0.5)	19.6 (0.6)	0.0184
Do you receive free or reduced	No	66.3 (0.6)	67.0 (0.7)	0.4.474
price lunches at school?	Yes	33.7 (0.6)	33.0 (0.7)	0.1471
During the past 30 days, on how	None	93.3 (0.2)	93.6 (0.3)	
many days did you smoke cigarettes?	At least 1 day	6.7 (0.2)	6.4 (0.3)	0.1772
During the past 30 days, on how	None	83.8 (0.3)	84.0 (0.4)	
many days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	16.2 (0.3)	16.0 (0.4)	0.4528
Think back over the last 2 weeks.	None	89.5 (0.3)	89.5 (0.3)	
How many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	10.5 (0.3)	10.5 (0.3)	0.8074
During the past 30 days, on how	None	80.3 (0.3)	80.0 (0.4)	
many days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	19.7 (0.3)	20.0 (0.4)	0.2646
What language is usually spoken	English	79.3 (0.3)	79.8 (0.4)	0.0714
at home?	Other language	20.7 (0.3)	20.2 (0.4)	0.0714
How do you describe yourself?	White	52.9 (0.4)	54.4 (0.5)	0.0000
	Hispanic	19.5 (0.3)	18.7 (0.4)	0.0039
	American Indian/Alaska Native	2.2 (0.1)	2.0 (0.1)	0.0251
(Select one or more responses.)	Asian	9.1 (0.2)	9.2 (0.3)	0.4721
	Black/African American	4.2 (0.2)	3.9 (0.2)	0.0836
	Pacific Islander	1.9 (0.1)	1.9 (0.1)	0.6892

Table 2d: Comparison of student characteristics among all 10th grader respondents to optional question takers in census schools (simulating bias).

Optional Question Taking among 12th Grade

Compared to optional question takers:

- a. Non-optional question takers in the state sample were more likely to report lower grades in school, to have a mother who didn't graduate high school, to receive free/reduced lunch, to live in a non-English speaking home, to be Hispanic, Black/African American, or Pacific Islander; and more likely to report binge drinking and current alcohol drinking, and to be white.
- b. All respondents in the state sample were more likely to live in a non-English speaking home, and to be Hispanic or Black/African American; and less likely to be white.
- c. Non-optional question takers in census schools more likely to report lower grades in school, feeling unsafe at school, having a mother who didn't graduate high school, to have skipped meals, not see a dentist, to live in a non-English speaking home, to be Hispanic or Black/African American; less likely to report current alcohol drinking, and to be white or Pacific Islander.
- d. All respondents in census schools were more likely to report lower grades in school and to be Black/African American; and less likely to be white.

Table 3a: Comparison of student characteristics among 12 th grade non-optional question takers to
optional question takers in the state sample.

Question	Options	Did Not Administered Optional Questions Percent (±CI)	Administered Optional Questions Percent (±Cl)	Difference p-value
Putting them all together, what	Mostly A's or B's	68.8 (1.9)	71.7 (1.3)	0.0120
were your grades like last year?	Mostly C's, D's, or F's	31.2 (1.9)	28.3 (1.3)	0.0120
I feel cofe at my school	Yes!/Mostly & yes/def. true	84.3 (1.4)	84.7 (1.0)	0 6 4 9 1
I feel safe at my school.	no/mostly & NO/def not true	15.7 (1.4)	15.3 (1.0)	0.6481
How far did your mother get in	Graduated HS or more	80.5 (1.7)	84.4 (1.1)	0.0001
school?	Didn't graduate HS	19.6 (1.7)	15.6 (1.1)	0.0001
	No	93.9 (1.0)	93.8 (0.7)	0.0220
Living situation due to finances	Yes	6.1 (1.0)	6.2 (0.7)	0.9230
How often in the past 12 months	None	83.6 (1.6)	84.6 (1.0)	
did you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	16.4 (1.6)	15.4 (1.0)	0.2609
When was the last time you saw a	In the past year	76.6 (2.5)	78.4 (1.6)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	23.4 (2.5)	21.6 (1.6)	0.2186
Do you receive free or reduced	No	61.0 (3.0)	66.2 (1.9)	0.0005
price lunches at school?	Yes	39.0 (3.0)	33.8 (1.9)	0.0035
During the past 30 days, on how	None	89.6 (1.2)	88.7 (0.9)	0.2466
many days did you smoke cigarettes?	At least 1 day	10.4 (1.2)	11.3 (0.9)	
During the past 30 days, on how	None	74.1 (1.8)	73.3 (1.2)	0.4393
many days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	25.9 (1.8)	26.7 (1.2)	
Think back over the last 2 weeks.	None	83.8 (1.5)	81.2 (1.1)	
How many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	16.2 (1.5)	18.9 (1.1)	0.0059
During the past 30 days, on how	None	71.1 (1.8)	66.5 (1.3)	
many days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	28.9 (1.8)	33.5 (1.3)	0.0001
What language is usually spoken	English	78.0 (1.7)	83.8 (1.0)	0.0000
at home?	Other language	22.0 (1.7)	16.2 (1.0)	0.0000
	White	52.0 (1.9)	60.7 (1.4)	0.0000
	Hispanic	27.2 (1.7)	21.7 (1.1)	0.0000
How do you describe yourself?	American Indian/Alaska Native	1.8 (0.5)	1.8 (0.4)	0.9076
(Select one or more responses.)	Asian	4.7 (0.8)	4.8 (0.6)	0.9581
	Black/African American	4.4 (0.8)	2.4 (0.4)	0.0000
	Pacific Islander	1.6 (0.5)	1.0 (0.3)	0.0426

Table 3b: Comparison of student characteristics among all 12 th grade respondents to optional question
takers in the state sample (simulating bias).

Question	Options	All Respondents Percent (±Cl)	Administered Optional Questions Percent (±CI)	Difference p-value
Putting them all together, what were	Mostly A's or B's	70.8 (1.1)	71.7 (1.3)	0 2021
your grades like last year?	Mostly C's, D's, or F's	29.2 (1.1)	28.3 (1.3)	0.2831
	Yes!/Mostly & yes/def. true	84.6 (0.8)	84.7 (1.0)	
I feel safe at my school.	no/mostly & NO/def not true	15.5 (0.8)	15.3 (1.0)	0.8391
How far did your mother get in	Graduated HS or more	83.2 (0.9)	84.4 (1.1)	
school?	Didn't graduate HS	16.8 (0.9)	15.6 (1.1)	0.0947
	No	93.9 (0.6)	93.8 (0.7)	
Living situation due to finances	Yes	6.1 (0.6)	6.2 (0.7)	0.9669
How often in the past 12 months did	None	84.3 (0.8)	84.6 (1.0)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	15.7 (0.8)	15.4 (1.0)	0.6356
When was the last time you saw a	In the past year	77.8 (1.3)	78.4 (1.6)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	22.2 (1.3)	21.6 (1.6)	0.6005
Do you receive free or reduced price	No	64.7 (1.6)	66.2 (1.9)	0.2252
lunches at school?	Yes	35.3 (1.6)	33.8 (1.9)	0.2252
During the past 30 days, on how many	None	89.0 (0.7)	88.7 (0.9)	0.6155
days did you smoke cigarettes?	At least 1 day	11.0 (0.7)	11.3 (0.9)	
During the past 30 days, on how many	None	73.6 (1.0)	73.3 (1.2)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	26.5 (1.0)	26.7 (1.2)	0.7379
Think back over the last 2 weeks. How	None	82.0 (0.9)	81.2 (1.1)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	18.0 (0.9)	18.9 (1.1)	0.2384
During the past 30 days, on how many	None	68.0 (1.1)	66.5 (1.3)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	32.0 (1.1)	33.5 (1.3)	0.0901
What language is usually spoken at home?	English	82.0 (0.9)	83.8 (1.0)	0.0074
	Other language	18.0 (0.9)	16.2 (1.0)	0.0074
How do you describe yourself? (Select one or more responses.)	White	57.8 (1.1)	60.7 (1.4)	0.0011
	Hispanic	23.6 (1.0)	21.7 (1.1)	0.0176
	American Indian/Alaska Native	1.8 (0.3)	1.8 (0.4)	0.9585
	Asian	4.8 (0.5)	4.8 (0.6)	0.9812
	Black/African American	3.1 (0.4)	2.4 (0.4)	0.0253
	Pacific Islander	1.2 (0.3)	1.0 (0.3)	0.3479

Table 3c: Comparison of student characteristics among 12 th grade non-optional question takers to
optional question takers in census schools.

Question	Options	Did Not Administered Optional Questions Percent (±CI)	Administered Optional Questions Percent (±Cl)	Difference p-value
Putting them all together, what were	Mostly A's or B's	68.5 (0.8)	72.3 (0.5)	
your grades like last year?	Mostly C's, D's, or F's	31.5 (0.8)	27.7 (0.5)	0.0000
	Yes!/Mostly & yes/def. true	83.9 (0.6)	85.4 (0.4)	0.0004
I feel safe at my school.	no/mostly & NO/def not true	16.1 (0.6)	14.6 (0.4)	0.0001
How far did your mother get in	Graduated HS or more	83.8 (0.7)	84.5 (0.5)	0.0000
school?	Didn't graduate HS	16.2 (0.7)	15.5 (0.5)	0.0800
	Graduated HS or more	93.6 (0.5)	93.6 (0.3)	0.0010
How far did your father get in school?	Didn't graduate HS	6.4 (0.5)	6.4 (0.3)	0.9912
How often in the past 12 months did	None	84.5 (0.7)	85.3 (0.4)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	15.5 (0.7)	14.7 (0.4)	0.0397
When was the last time you saw a	In the past year	76.1 (1.1)	77.4 (0.7)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	23.9 (1.1)	22.6 (0.7)	0.0485
Do you receive free or reduced price	No	65.2 (1.3)	65.5 (0.8)	0.6539
lunches at school?	Yes	34.9 (1.3)	34.5 (0.8)	0.0559
During the past 30 days, on how many	None	88.6 (0.6)	89.1 (0.4)	0.1480
days did you smoke cigarettes?	At least 1 day	11.4 (0.6)	10.9 (0.4)	
During the past 30 days, on how many	None	74.3 (0.8)	74.2 (0.5)	0.8753
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	25.7 (0.8)	25.8 (0.5)	
Think back over the last 2 weeks. How	None	82.7 (0.7)	82.1 (0.5)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	17.3 (0.7)	17.9 (0.5)	0.1292
During the past 30 days, on how many	None	69.0 (0.8)	67.4 (0.6)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	31.0 (0.8)	32.6 (0.6)	0.0018
What language is usually spoken at home?	English	79.5 (0.7)	81.1 (0.5)	0.0000
	Other language	20.5 (0.7)	18.9 (0.5)	0.0002
How do you describe yourself? (Select	White	53.8 (0.9)	56.4 (0.6)	0.0000
	Hispanic	20.7 (0.7)	19.3 (0.5)	0.0020
	American Indian/Alaska Native	2.0 (0.2)	1.9 (0.2)	0.2515
one or more responses.)	Asian	7.7 (0.5)	8.2 (0.3)	0.1288
	Black/African American	5.0 (0.4)	4.0 (0.2)	0.0000
	Pacific Islander	1.5 (0.2)	1.8 (0.2)	0.0119

Table 3d: Comparison of student characteristics among all 12 th grader respondents to optional
question takers in census schools (simulating bias).

Question	Options	All Respondents Percent (±Cl)	Administered Optional Questions Percent (±CI)	Difference p-value
Putting them all together, what were	Mostly A's or B's	71.1 (0.5)	72.3 (0.5)	0.0017
your grades like last year?	Mostly C's, D's, or F's	28.9 (0.5)	27.7 (0.5)	0.0017
	Yes!/Mostly & yes/def. true	84.9 (0.4)	85.4 (0.4)	
I feel safe at my school.	no/mostly & NO/def not true	15.1 (0.4)	14.6 (0.4)	0.0830
How far did your mother get in	Graduated HS or more	84.3 (0.4)	84.5 (0.5)	
school?	Didn't graduate HS	15.7 (0.4)	15.5 (0.5)	0.4602
	No	93.6 (0.3)	93.6 (0.3)	
Living situation due to finances	Yes	6.4 (0.3)	6.4 (0.3)	0.9962
How often in the past 12 months did	None	85.1 (0.4)	85.3 (0.4)	
you or your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	15.0 (0.4)	14.7 (0.4)	0.3845
When was the last time you saw a	In the past year	77.0 (0.6)	77.4 (0.7)	
dentist for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	23.0 (0.6)	22.6 (0.7)	0.4076
Do you receive free or reduced price	No	65.4 (0.7)	65.5 (0.8)	0.8539
lunches at school?	Yes	34.5 (0.8)	0.8539	
During the past 30 days, on how many	None	89.0 (0.3)	89.1 (0.4)	0 5 2 0 0
days did you smoke cigarettes?	At least 1 day	11.1 (0.3)	10.9 (0.4)	0.5306
During the past 30 days, on how many	None	74.3 (0.4)	74.2 (0.5)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	25.7 (0.4)	25.8 (0.5)	0.9462
Think back over the last 2 weeks. How	None	82.3 (0.4)	82.1 (0.5)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	17.7 (0.4)	17.9 (0.5)	0.5168
During the past 30 days, on how many	None	67.9 (0.5)	67.4 (0.6)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	32.1 (0.5)		
What language is usually spoken at	English	80.6 (0.4)	81.1 (0.5)	0 1 0 9 1
home?	Other language	19.4 (0.4)	18.9 (0.5)	0.1081
	White	55.5 (0.5)	56.4 (0.6)	0.0273
	Hispanic	19.8 (0.4)	19.3 (0.5)	0.1678
How do you describe yourself? (Select	American Indian/Alaska Native	1.9 (0.1)	1.9 (0.2)	0.6080
one or more responses.)	Asian	8.0 (0.3)	8.2 (0.3)	0.5007
	Black/African American	4.3 (0.2)	4.0 (0.2)	0.0483
	Pacific Islander	1.7 (0.1)	1.8 (0.2)	0.2694

Appendix E: Comparing Student and School Reported Race/Ethnicity

The analysis of student self-report of race/ethnicity on HYS was compared to school* reported race/ethnicity. The analysis showed that students are less likely to report that they are white non-Hispanic, Hispanic and multiracial non-Hispanic, but more likely to report that they are American Indian/Alaska Native non-Hispanic, Asian non-Hispanic, Black/African American non-Hispanic, and Pacific Islander non-Hispanic compared to schools. HYS allows students to report "other race", which may be a factor in the differences between student and school reports.

While students and schools report race/ethnicity different, there were not differences in how students reported race/ethnicity in the state sample schools compared to their report among census schools.

*School reported race/ethnicity provided by OSPI, http://www.k12.wa.us/DataAdmin/enrollment.aspx

Table 1a: Comparison of percentage of white non-Hispanic students reported by HYS and OSPI in state
sample schools

				Std.	Std.	95% CI	95% CI	p-
Source	Grade	Obs	Mean	Err.	Dev.	Lower	Upper	value
HYS percent white			38.7	1.9	17.2	35.0	42.5	
OSPI percent white	6	83	60.2	2.5	23.1	55.2	65.3	0.0000
difference			-21.5	1.2	10.8	-23.8	-19.1	
HYS percent white			48.1	2.6	20.8	42.9	53.3	
OSPI percent white	8	64	58.9	3.0	24.1	52.9	65.0	0.0000
difference			-10.8	1.0	8.1	-12.8	-8.8	
HYS percent white			57.6	2.9	21.2	51.9	63.3	
OSPI percent white	10	55	62.0	3.0	22.6	55.9	68.1	0.0001
difference			-4.4	1.0	7.6	-6.5	-2.4	
HYS percent white			59.2	3.0	23.6	53.1	65.3	
OSPI percent white	12	60	62.5	3.3	25.2	56.0	69.0	0.0000
difference			-3.3	0.7	5.3	-4.7	-2.0	

Table 1b: Comparison of percentage of white non-Hispanic students reported by HYS and OSPI in census schools

				Std.	Std.	95% CI	95% CI	p-
Source	Grade	Obs	Mean	Err.	Dev.	Lower	Upper	value
HYS percent white			36.7	0.7	18.1	35.3	38.2	
OSPI percent white	6	587	56.7	1.0	23.7	54.8	58.6	0.0000
difference			-20.0	0.5	12.3	-21.0	-19.0	
HYS percent white			48.4	1.0	21.1	46.4	50.4	
OSPI percent white	8	445	58.8	1.1	24.1	56.5	61.0	0.0000
difference			-10.4	0.4	9.0	-11.2	-9.5	
HYS percent white			55.4	1.2	24.1	53.0	57.7	
OSPI percent white	10	403	60.5	1.2	25.1	58.0	62.9	0.0000
difference			-5.1	0.6	11.2	-6.2	-4.0	
HYS percent white			56.6	1.2	24.6	54.2	59.0	
OSPI percent white	12	400	60.6	1.2	24.1	58.2	63.0	0.0000
difference			-4.0	0.5	9.1	-4.9	-3.1	

				Std.	Std.	95% CI	95% CI	p-
Source	Grade	Obs	Mean	Err.	Dev.	Lower	Upper	value
HYS percent Hispanic			15.6	1.9	17.2	11.8	19.3	
OSPI percent Hispanic	6	83	20.3	2.1	18.8	16.2	24.4	0.0000
difference			-4.7	0.5	4.8	-5.8	-3.7	
HYS percent Hispanic			19.3	2.1	16.8	15.1	23.5	
OSPI percent Hispanic	8	64	22.2	2.3	18.2	17.6	26.7	0.0000
difference			-2.9	0.4	3.4	-3.7	-2.1	
HYS percent Hispanic			21.4	3.0	22.1	15.4	27.4	
OSPI percent Hispanic	10	55	24.1	3.1	23.0	17.9	30.3	0.0000
difference			-2.7	0.6	4.6	-4.0	-1.5	
HYS percent Hispanic			22.3	3.1	23.8	16.1	28.4	
OSPI percent Hispanic	12	60	23.2	3.2	24.8	16.7	29.6	0.1926
difference			-0.9	0.7	5.1	-2.2	0.4	

Table 2a: Comparison of percentage of Hispanic students reported by HYS and OSPI in state sample
schools

Table 2b: Comparison of percentage of Hispanic students reported by HYS and OSPI in census schools
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				Std.	Std.	95% CI	95% CI	p-
Source	Grade	Obs	Mean	Err.	Dev.	Lower	Upper	value
HYS percent Hispanic			16.0	0.7	16.2	14.7	17.4	
OSPI percent Hispanic	6	587	21.7	0.8	19.9	20.0	23.3	0.0000
difference			-5.6	0.3	6.1	-6.1	-5.1	
HYS percent Hispanic			18.3	0.9	19.4	16.5	20.1	
OSPI percent Hispanic	8	445	21.1	1.0	20.3	19.2	23.0	0.0000
difference			-2.8	0.2	4.9	-3.2	-2.3	
HYS percent Hispanic			18.5	1.0	19.7	16.6	20.4	
OSPI percent Hispanic	10	403	20.2	1.0	20.0	18.3	22.2	0.0000
difference			-1.7	0.3	7.0	-2.4	-1.0	
HYS percent Hispanic			19.4	1.0	20.2	17.4	21.4	
OSPI percent Hispanic	12	400	20.3	1.0	20.0	18.4	22.3	0.0039
difference			-0.9	0.3	6.5	-1.6	-0.3	

Table 3a: Comparison of percentage of American Indian/Alaska Native non-Hispanic students
reported by HYS and OSPI in state sample schools

Source	Grade	Obs	Mean	Std. Err.	Std. Dev.	95% Cl Lower	95% Cl Upper	p- value
HYS percent American Indian			6.5	0.5	4.8	5.5	7.6	
OSPI percent American Indian	6	83	0.8	0.1	1.3	0.5	1.1	0.0000
difference			5.7	0.5	4.6	4.7	6.7	
HYS percent American Indian			4.1	0.6	4.5	3.0	5.2	
OSPI percent American Indian	8	64	1.2	0.4	2.8	0.5	1.9	0.0000
difference			2.9	0.4	2.9	2.2	3.6	
HYS percent American Indian			2.8	0.5	3.4	1.8	3.7	
OSPI percent American Indian	10	55	1.9	0.5	3.7	0.9	2.9	0.0245
difference			0.9	0.4	2.7	0.1	1.6	
HYS percent American Indian			2.0	0.3	2.4	1.4	2.6	
OSPI percent American Indian	12	60	1.3	0.2	1.8	0.8	1.7	0.0134
difference			0.7	0.3	2.1	0.2	1.3	

				Std.	Std.	95% CI	95% CI	p-
Source	Grade	Obs	Mean	Err.	Dev.	Lower	Upper	value
HYS percent American Indian			7.4	0.4	8.7	6.7	8.1	
OSPI percent American Indian	6	587	2.2	0.3	8.5	1.5	2.9	0.0000
difference			5.1	0.2	5.6	4.7	5.6	
HYS percent American Indian			5.7	0.5	10.2	4.8	6.7	
OSPI percent American Indian	8	445	3.0	0.5	10.1	2.1	4.0	0.0000
difference			2.7	0.2	4.8	2.2	3.1	
HYS percent American Indian			4.2	0.5	9.1	3.3	5.1	
OSPI percent American Indian	10	403	3.3	0.5	9.7	2.3	4.2	0.0004
difference			0.9	0.3	5.2	0.4	1.4	
HYS percent American Indian			3.8	0.5	10.2	2.8	4.8	
OSPI percent American Indian	12	400	3.2	0.5	9.8	2.2	4.2	0.0007
difference			0.6	0.2	3.5	0.3	0.9	

Table 3b: Comparison of percentage of American Indian/Alaska Native non-Hispanic students reported by HYS and OSPI in census schools

Table 4a: Comparison of percentage of Asian non-Hispanic students reported by HYS and OSPI in state
sample schools

				Std.	Std.	95% CI	95% CI	p-
Source	Grade	Obs	Mean	Err.	Dev.	Lower	Upper	value
HYS percent Asian			8.6	1.1	9.6	6.5	10.8	
OSPI percent Asian	6	83	7.4	1.1	9.9	5.2	9.5	0.0000
difference			1.3	0.3	2.6	0.7	1.9	
HYS percent Asian			6.8	1.0	8.1	4.8	8.9	
OSPI percent Asian	8	64	5.7	1.0	8.1	3.7	7.7	0.0000
difference			1.1	0.3	2.1	0.6	1.7	
HYS percent Asian			4.5	0.7	5.2	3.1	5.9	
OSPI percent Asian	10	55	4.0	0.7	5.5	2.5	5.5	0.1946
difference			0.5	0.4	2.6	-0.2	1.2	
HYS percent Asian			3.9	0.6	4.6	2.7	5.0	
OSPI percent Asian	12	60	3.7	0.7	5.3	2.3	5.0	0.4866
difference			0.2	0.3	2.0	-0.3	0.7	

Table 4b: Comparison of percentage of Asian non-Hispanic students reported by HYS and OSPI in census schools

				Std.	Std.	95% CI	95% CI	p-
Source	Grade	Obs	Mean	Err.	Dev.	Lower	Upper	value
HYS percent Asian			7.7	0.4	9.3	7.0	8.5	
OSPI percent Asian	6	587	6.6	0.4	9.3	5.9	7.4	0.0000
difference			1.1	0.1	2.9	0.9	1.3	
HYS percent Asian			7.3	0.4	9.1	6.4	8.1	
OSPI percent Asian	8	445	6.1	0.4	9.0	5.2	6.9	0.0000
difference			1.2	0.1	2.6	1.0	1.5	
HYS percent Asian			6.1	0.4	8.9	5.2	7.0	
OSPI percent Asian	10	403	5.4	0.4	8.6	4.6	6.3	0.0000
difference			0.7	0.2	3.1	0.4	1.0	
HYS percent Asian			5.4	0.4	8.0	4.6	6.1	
OSPI percent Asian	12	400	5.2	0.4	8.0	4.4	6.0	0.3298
difference]		0.2	0.2	3.3	-0.2	0.5	

Source	Grade	Obs	Mean	Std. Err.	Std. Dev.	95% Cl Lower	95% Cl Upper	p- value
HYS percent Black/African American			3.9	0.5	4.7	2.9	5.0	
OSPI percent Black/African American	6	83	3.3	0.6	5.5	2.2	4.5	0.0453
difference			0.6	0.3	2.7	0.0	1.2	
HYS percent Black/African American			5.0	0.7	5.9	3.5	6.4	
OSPI percent Black/African American	8	64	4.6	1.0	8.0	2.6	6.6	0.3363
difference			0.4	0.4	3.0	-0.4	1.1	
HYS percent Black/African American			2.7	0.4	3.2	1.8	3.6	
OSPI percent Black/African American	10	55	2.1	0.5	4.1	1.0	3.2	0.0217
difference			0.5	0.2	1.7	0.1	1.0	
HYS percent Black/African American			3.3	0.7	5.4	1.9	4.7	
OSPI percent Black/African American	12	60	3.3	1.0	7.6	1.3	5.2	0.9692
difference			0.0	0.6	4.5	-1.1	1.2	

Table 5a: Comparison of percentage of Black/African American non-Hispanic students reported by HYS and OSPI in state sample schools

Table 5b: Comparison of percentage of Black/African American non-Hispanic students reported by HYS and OSPI in census schools

				Std.	Std.	95% CI	95% CI	p-
Source	Grade	Obs	Mean	Err.	Dev.	Lower	Upper	value
HYS percent Black/African American			4.7	0.2	5.5	4.2	5.1	
OSPI percent Black/African American	6	587	3.9	0.3	6.9	3.4	4.5	0.0000
difference			0.7	0.1	3.1	0.5	1.0	
HYS percent Black/African American			4.1	0.3	5.6	3.6	4.6	
OSPI percent Black/African American	8	445	3.6	0.3	6.6	3.0	4.2	0.0001
difference			0.5	0.1	2.8	0.3	0.8	
HYS percent Black/African American			3.6	0.3	5.6	3.1	4.2	
OSPI percent Black/African American	10	403	3.3	0.3	6.4	2.7	3.9	0.1549
difference			0.3	0.2	4.1	-0.1	0.7	
HYS percent Black/African American			4.3	0.4	7.8	3.6	5.1	
OSPI percent Black/African American	12	400	3.9	0.4	7.1	3.2	4.6	0.1497
difference			0.5	0.3	6.6	-0.2	1.1	

Table 6a: Comparison of percentage of Pacific Islander non-Hispanic students reported by HYS and OSPI in state sample schools

				Std.	Std.	95% CI	95% CI	p-
Source	Grade	Obs	Mean	Err.	Dev.	Lower	Upper	value
HYS percent Pacific Islander			1.7	0.2	2.2	1.2	2.2	
OSPI percent Pacific Islander	6	83	0.9	0.2	1.8	0.6	1.3	0.0000
difference			0.8	0.2	1.5	0.4	1.1	
HYS percent Pacific Islander			1.8	0.3	2.4	1.2	2.4	
OSPI percent Pacific Islander	8	64	1.0	0.3	2.1	0.5	1.5	0.0002
difference			0.8	0.2	1.6	0.4	1.2	
HYS percent Pacific Islander			1.3	0.3	2.2	0.7	1.9	
OSPI percent Pacific Islander	10	55	0.5	0.1	0.9	0.2	0.7	0.0046
difference			0.8	0.3	2.0	0.3	1.4	
HYS percent Pacific Islander			1.3	0.3	2.1	0.7	1.8	
OSPI percent Pacific Islander	12	60	0.6	0.1	1.0	0.3	0.8	0.0013
difference			0.7	0.2	1.6	0.3	1.1	

Table 6b: Comparison of percentage of Pacific Islander non-Hispanic students reported by HYS and
OSPI in census schools

				Std.	Std.	95% CI	95% CI	р-
Source	Grade	Obs	Mean	Err.	Dev.	Lower	Upper	value
HYS percent Pacific Islander			2.0	0.2	4.9	1.6	2.4	
OSPI percent /Pacific Islander	6	587	1.0	0.1	2.1	0.9	1.2	0.0000
difference			0.9	0.2	3.9	0.6	1.3	
HYS percent Pacific Islander			1.7	0.1	2.3	1.5	1.9	
OSPI percent /Pacific Islander	8	445	0.8	0.1	1.7	0.7	1.0	0.0000
difference			0.8	0.1	1.5	0.7	1.0	
HYS percent Pacific Islander			1.8	0.2	4.6	1.3	2.2	
OSPI percent /Pacific Islander	10	403	0.9	0.1	2.3	0.6	1.1	0.0000
difference			0.9	0.2	3.8	0.5	1.3	
HYS percent Pacific Islander			1.5	0.1	2.9	1.3	1.8	
OSPI percent /Pacific Islander	12	400	0.7	0.1	1.4	0.6	0.8	0.0000
difference			0.8	0.1	2.3	0.6	1.1	

Table 7a: Comparison of percentage of multi-racial non-Hispanic students reported by HYS and OSPI in state sample schools

				Std.	Std.	95% CI	95% CI	p-
Source	Grade	Obs	Mean	Err.	Dev.	Lower	Upper	value
HYS percent Multi-racial			6.7	0.4	3.9	5.9	7.6	
OSPI percent Multi-racial	6	83	7.0	0.5	4.5	6.0	8.0	0.5791
difference			-0.3	0.5	4.9	-1.4	0.8	
HYS percent Multi-racial			5.6	0.5	4.3	4.6	6.7	
OSPI percent Multi-racial	8	64	6.4	0.5	4.2	5.4	7.5	0.1511
difference			-0.8	0.5	4.3	-1.9	0.3	
HYS percent Multi-racial			4.8	0.5	3.6	3.8	5.8	
OSPI percent Multi-racial	10	55	5.3	0.5	4.1	4.2	6.4	0.3313
difference			-0.5	0.6	4.1	-1.7	0.6	
HYS percent Multi-racial			4.7	0.6	4.4	3.5	5.8	
OSPI percent Multi-racial	12	60	5.5	0.5	3.9	4.5	6.5	0.0942
difference			-0.8	0.5	3.7	-1.8	0.1	

Table 7b: Comparison of percentage of multi-racial non-Hispanic students reported by HYS and OSPI in
census schools

				Std.	Std.	95% CI	95% CI	p-
Source	Grade	Obs	Mean	Err.	Dev.	Lower	Upper	value
HYS percent Multi-racial			6.6	0.2	4.7	6.3	7.0	
OSPI percent Multi-racial	6	587	7.7	0.2	5.6	7.3	8.2	0.0000
difference			-1.1	0.2	6.0	-1.6	-0.6	
HYS percent Multi-racial			5.5	0.2	4.9	5.1	6.0	
OSPI percent Multi-racial	8	445	6.6	0.2	5.3	6.1	7.1	0.0000
difference			-1.1	0.2	5.1	-1.5	-0.6	
HYS percent Multi-racial			5.5	0.3	6.4	4.9	6.1	
OSPI percent Multi-racial	10	403	6.4	0.3	6.9	5.7	7.0	0.0358
difference			-0.9	0.4	8.3	-1.7	-0.1	
HYS percent Multi-racial			5.7	0.3	5.8	5.1	6.2	
OSPI percent Multi-racial	12	400	6.1	0.3	5.2	5.6	6.6	0.2136
difference			-0.4	0.3	6.5	-1.0	0.2	

The analysis of student self-report of race/ethnicity on HYS was compared to school* reported race/ethnicity. The analysis showed that students are less likely to report that they are white non-Hispanic, Hispanic and multi-racial non-Hispanic, but more likely to report that they are American Indian/Alaska Native non-Hispanic, Asian non-Hispanic, Black/African American non-Hispanic, and Pacific Islander non-Hispanic compared to schools. HYS allows students to report "other race", which may be a factor in the differences between student and school reports.

While students and schools report race/ethnicity different, there were not differences in how students reported race/ethnicity in the state sample schools compared to their report among census schools.

*School reported race/ethnicity provided by OSPI, <u>http://www.k12.wa.us/DataAdmin/enrollment.aspx</u>

All Students

Census school respondents were more likely to report:

• Substance use – current alcohol drinking (grade 6) and binge drinking (grade 6)

Table 1a: Comparison of student characteristics among 6th graders in the state sample to census schools.

Question	Ontions	State Sample	Census	Difference
Question	Options	Percent (±CI)	Percent (±CI)	p-value
What language is usually snellen at home?	English	81.8 (3.5)	79.1 (1.6)	0 1 2 0 4
What language is usually spoken at home?	Other language	18.2 (3.5)	20.9 (1.6)	0.1294
Putting them all together, what were your	Mostly A's or B's	85.6 (1.8)	84.0 (0.7)	0.0014
grades like last year?	Mostly Cs, Ds or Fs	14.4 (1.8)	16.0 (0.7)	0.0814
	Yes!/Mostly & yes/def. true	90.1 (1.2)	89.9 (0.4)	0.6755
feel safe at my school.	no/mostly & NO/def not true	9.9 (1.2)	10.1 (0.4)	0.6755
In the last 30 days, how often have you been	None	72.7 (1.8)	71.8 (0.6)	0 2502
bullied?	At least 1 day	27.3 (1.8)	28.2 (0.6)	0.2593
During the past 30 days, on how many days	None	96.9 (0.4)	96.6 (0.2)	
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	3.1 (0.4)	3.4 (0.2)	0.0961
During the past 30 days, on how many days	None	99.5 (0.2)	99.3 (0.1)	0.0530
did you smoke cigarettes?	At least 1 day	0.5 (0.2)	0.7 (0.1)	0.0528
During the past 30 days, on how many days	None	99.2 (0.2)	99.1 (0.1)	
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	0.8 (0.2)	0.9 (0.1)	0.4865
During the past 30 days, on how many days	None	98.2 (0.4)	97.9 (0.2)	
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	1.8 (0.4)	2.1 (0.2)	0.0445
Think back over the last 2 weeks. How many	None	98.7 (0.3)	98.3 (0.1)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	1.3 (0.3)	1.7 (0.1)	0.0171

Table 1b: Comparison of student characteristics among 8th graders in the state sample to census schools.

Question	Options	State Sample Percent (±Cl)	Census Percent (±Cl)	Difference p-value	
	English	78.3 (5.1)	79.2 (1.7)	•	
What language is usually spoken at home?	Other language	21.7 (5.1)	20.9 (1.7)	0.718	
	Graduated HS or				
How far did your mother get in school?	more	85.0 (3.3)	86.5 (1.2)	0.3037	
now far ald your mother get in school?	Didn't graduate HS	15.0 (3.3)	13.5 (1.2)	0.3037	
Are your current living arrangements the	No	94.3 (0.6)	94.5 (0.2)		
result of losing your home because your				0.4959	
family cannot afford housing?	Yes	5.7 (0.6)	5.5 (0.2)	011000	
How often in the past 12 months did you or	None	89.7 (1.3)	89.7 (0.5)		
your family have to cut meal size or skip					
meals because there wasn't enough money	At least once	10.3 (1.3)	10.3 (0.5)	0.9437	
for food?		(-)	()		
When was the last time you saw a dentist for	In the past year	76.3 (2.7)	77.7 (0.9)		
a check–up, exam, teeth cleaning, or other				0.2682	
dental work?	More than a year ago	23.7 (2.7)	22.3 (0.9)		
Do you receive free or reduced price lunches	No	62.4 (6.6)	64.7 (2.3)		
at school?	Yes	37.6 (6.6)	35.3 (2.3)	0.4388	
Putting them all together, what were your	Mostly A's or B's	77.3 (2.7)	78.6 (1.0)		
grades like last year?	Mostly Cs, Ds or Fs	22.7 (2.7)	21.4 (1.0)	0.2917	
8	Yes!/Mostly &				
	yes/def. true	83.6 (1.7)	83.4 (0.7)		
I feel safe at my school.	no/mostly & NO/def			0.8344	
	not true	16.4 (1.7)	16.6 (0.7)		
In the last 30 days, how often have you been	None	72.6 (1.6)	72.3 (0.6)		
bullied?	At least 1 day	27.4 (1.6)	27.7 (0.6)	0.7213	
During the past 30 days, on how many days	None	96.0 (0.5)	96.2 (0.2)		
did you: Carry a weapon such as a gun, knife,				0.5754	
or club on school property?	At least 1 day	4.0 (0.5)	3.8 (0.2)	0.0701	
During the past 30 days, on how many days	None	96.9 (0.5)	97.0 (0.2)		
did you smoke cigarettes?	At least 1 day	3.1 (0.5)	3.1 (0.2)	0.719	
During the past 30 days, on how many days	None	93.6 (1.1)	93.8 (0.4)		
did you: Use marijuana or hashish (weed,				0.7232	
hash, pot)?	At least 1 day	6.4 (1.1)	6.3 (0.4)	0.7202	
During the past 30 days, on how many days	None	92.4 (1.1)	92.3 (0.4)		
did you: Drink a glass, can or bottle of alcohol				0.8086	
(beer, wine, wine coolers, hard liquor)?	At least 1 day	7.6 (1.1)	7.7 (0.4)		
Think back over the last 2 weeks. How many	None	96.0 (0.7)	95.9 (0.3)		
times have you had five or more drinks in a					
row? (A drink is a glass of wine, a bottle of	At least 1 day	4.0 (0.7)	4.1 (0.3)	0.9417	
beer, a shot glass of liquor, or a mixed drink.)			(0.0)		
, , , , , ,	No	92.1 (2.1)	92.1 (0.6)	0.9534	
Have you ever had sexual intercourse?					
,	Yes	7.9 (2.1)	7.9 (0.6)		
	Straight		_		
	(heterosexual)	82.4 (1.3)	81.4 (0.6)	0.6) 0.1741 0.6)	
Which of the following best describes you?	Gay, lesbian, or not				
		17.7 (1.3)			

Table 1c: Comparison of student characteristics among 10th graders in the state sample to census schools.

Question	Options	State Sample Percent (±Cl)	Census Percent (±Cl)	Difference p-value	
	English	80.4 (5.4)	79.3 (1.9)	0 (5 2 2	
What language is usually spoken at home?	Other language	19.6 (5.4)	20.7 (1.9)	0.6523	
How far did your mother get in school?	Graduated HS or more	84.0 (4.0)	85.1 (1.5)	0.5052	
	Didn't graduate HS	16.0 (4.0)	14.9 (1.5)		
Are your current living arrangements the	No	94.1 (0.6)	94.0 (0.3)		
result of losing your home because your family cannot afford housing?	Yes	5.9 (0.6)	6.0 (0.3)	0.7112	
How often in the past 12 months did you or	None	87.6 (1.2)	87.4 (0.6)		
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	12.4 (1.2)	12.6 (0.6)	0.7828	
When was the last time you saw a dentist for	In the past year	79.8 (1.8)	79.5 (0.9)		
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	20.2 (1.8)	20.5 (0.9)	0.7201	
Do you receive free or reduced price lunches	No	65.2 (6.5)	66.3 (2.6)	0.0000	
at school?	Yes	34.9 (6.5)	33.7 (2.6)	0.6928	
Putting them all together, what were your	Mostly A's or B's	75.0 (2.9)	75.3 (1.3)	0.00.40	
grades like last year?	Mostly Cs, Ds or Fs	25.0 (2.9)	24.7 (1.3)	0.8349	
	Yes!/Mostly & yes/def. true	82.8 (1.8)	82.8 (0.8)	0.9746	
I feel safe at my school.	no/mostly & NO/def not true	17.2 (1.8)	17.2 (0.8)		
In the last 30 days, how often have you been	None	79.3 (1.2)	78.2 (0.6)		
bullied?	At least 1 day	20.7 (1.2)	21.8 (0.6)	0.0524	
During the past 30 days, on how many days	None	94.0 (0.8)	94.1 (0.4)		
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	6.0 (0.8)	5.9 (0.4)	0.7216	
During the past 30 days, on how many days	None	93.7 (0.7)	93.3 (0.4)	0.0050	
did you smoke cigarettes?	At least 1 day	6.3 (0.7)	6.7 (0.4)	0.3353	
During the past 30 days, on how many days	None	82.8 (1.6)	83.8 (0.7)		
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	17.2 (1.6)	16.2 (0.7)	0.1337	
During the past 30 days, on how many days	None	79.7 (1.4)	80.3 (0.6)		
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	20.4 (1.4)	19.7 (0.6)	0.2989	
Think back over the last 2 weeks. How many	None	89.1 (1.0)	89.5 (0.4)		
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	10.9 (1.0)	10.5 (0.4)	0.3713	
	No	75.0 (3.1)	76.1 (1.2)		
Have you ever had sexual intercourse?	Yes	25.1 (3.1)	23.9 (1.2)	0.4110	
Which of the following best describes way?	Straight (heterosexual)	81.6 (1.4)	81.8 (0.7)	0.0340	
Which of the following best describes you?	Gay, lesbian, or not sure	18.4 (1.4)	18.3 (0.7)	0.8349	

Table 1d: Comparison of student characteristics among 12th graders in the state sample to censusschools.

Question	Options	State Sample Percent (±Cl)	Census Percent (±Cl)	Difference p-value
	English	82.0 (5.4)	80.6 (1.9)	•
What language is usually spoken at home?	Other language	18.0 (5.4)	19.4 (1.9)	0.5795
How far did your mother get in school?	Graduated HS or more	83.2 (4.6)	84.3 (1.6)	0.5740
, 3	Didn't graduate HS	16.8 (4.6)	15.7 (1.6)	
Are your current living arrangements the	No	93.9 (0.7)	93.6 (0.3)	
result of losing your home because your family cannot afford housing?	Yes	6.1 (0.7)	6.4 (0.3)	0.4601
How often in the past 12 months did you or	None	84.3 (1.8)	85.1 (0.7)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	15.7 (1.8)	15.0 (0.7)	0.3786
When was the last time you saw a dentist for	In the past year	77.8 (2.7)	77.0 (1.0)	
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	22.2 (2.7)	23.0 (1.0)	0.4922
Do you receive free or reduced price lunches	No	64.7 (7.3)	65.4 (2.6)	0.0260
at school?	Yes	35.3 (7.3)	34.6 (2.6)	0.8268
Putting them all together, what were your	Mostly A's or B's	70.8 (2.8)	71.1 (1.3)	0.0205
grades like last year?	Mostly Cs, Ds or Fs	29.2 (2.8)	28.9 (1.3)	0.8285
	Yes!/Mostly & yes/def. true	84.6 (2.1)	84.9 (0.8)	0 7020
I feel safe at my school.	no/mostly & NO/def not true	15.5 (2.1)	15.1 (0.8)	0.7039
In the last 30 days, how often have you been	None	83.1 (1.1)	83.1 (0.5)	
bullied?	At least 1 day	16.9 (1.1)	16.9 (0.5)	0.9634
During the past 30 days, on how many days	None	92.5 (1.0)	92.7 (0.5)	
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	7.5 (1.0)	7.3 (0.5)	0.6460
During the past 30 days, on how many days	None	89.0 (1.5)	89.0 (0.7)	
did you smoke cigarettes?	At least 1 day	11.0 (1.5)	11.1 (0.7)	0.9597
During the past 30 days, on how many days	None	73.6 (1.8)	74.3 (0.8)	
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	26.5 (1.8)	25.7 (0.8)	0.3780
During the past 30 days, on how many days	None	68.0 (2.3)	67.9 (1.0)	
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	32.0 (2.3)	32.1 (1.0)	0.9036
Think back over the last 2 weeks. How many	None	82.0 (1.6)	82.3 (0.7)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	18.0 (1.6)	17.7 (0.7)	0.6987
	No	49.0 (2.9)	51.4 (1.4)	0.0000
Have you ever had sexual intercourse?	Yes	51.0 (2.9)	48.7 (1.4)	0.0860
Which of the following best describes you?	Straight (heterosexual)	83.6 (1.5)	82.5 (0.7)	0.6740
which of the following pest describes you?	Gay, lesbian, or not sure	16.5 (1.8)	17.5 (0.9)	0.6740

White non-Hispanic Students

Census school respondents were more likely to report:

- Non-English language spoken at home (grades 8, 10 and 12)
- Describing themselves as gay, lesbian, bisexual or questioning (grade 8)

Table 2a: Comparison of white non-Hispanic student characteristics among 6th graders in the state sample to census schools.

Question	Ontions	State Sample	Census	Difference
Question	Options	Percent (±CI)	Percent (±CI)	p-value
What language is usually spoken at	English	96.5 (1.0)	95.7 (0.5)	0 1 4 1 0
home?	Other language	3.5 (1.0)	4.3 (0.5)	0.1410
Putting them all together, what were	Mostly A's or B's	89.5 (1.6)	88.4 (0.7)	0 1 4 7 1
your grades like last year?	Mostly Cs, Ds or Fs	10.5 (1.6)	11.6 (0.7)	0.1471
I feel safe at my school.	Yes!/Mostly & yes/def. true	92.2 (1.2)	92.1 (0.4)	0.8114
Theer sale at my school.	no/mostly & NO/def not true	7.8 (1.2)	7.9 (0.4)	0.8114
In the last 30 days, how often have	None	74.4 (2.1)	72.6 (0.8)	0.0709
you been bullied?	At least 1 day	25.7 (0.0)	27.4 (0.0)	0.0708
During the past 30 days, on how many	None	97.7 (0.5)	97.2 (0.2)	
days did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	2.3 (0.5)	2.8 (0.2)	0.0772
During the past 30 days, on how many	None	99.6 (0.2)	99.5 (0.1)	0.2442
days did you smoke cigarettes?	At least 1 day	0.4 (0.2)	0.5 (0.1)	0.3442
During the past 30 days, on how many	None	99.5 (0.2)	99.4 (0.1)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	0.5 (0.2)	0.6 (0.1)	0.4490
During the past 30 days, on how many	None	98.7 (0.4)	98.5 (0.2)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	1.3 (0.4)	1.5 (0.2)	0.2797
Think back over the last 2 weeks. How	None	99.2 (0.3)	99.0 (0.1)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	0.8 (0.3)	1.0 (0.1)	0.1902

Table 2b: Comparison of white non-Hispanic student characteristics among 8th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference	
	Options	Percent (±CI)	Percent (±Cl)	p-value	
What language is usually spoken at home?	English	96.8 (0.7)	95.8 (0.4)	0.0240	
what language is usually spoken at nome:	Other language	3.2 (0.7)	4.2 (0.4)	0.0240	
	Graduated HS or				
How far did your mother get in school?	more	93.7 (1.4)	93.8 (0.5)	0.8444	
	Didn't graduate HS	6.3 (1.4)	6.2 (0.5)		
Are your current living arrangements the result of	No	94.8 (0.9)	95.1 (0.3)	0.5154	
losing your home because your family cannot	Vee	F 2 (0 0)	F Q (Q 2)		
afford housing?	Yes	5.2 (0.9)	5.0 (0.3)		
How often in the past 12 months did you or your	None	92.4 (1.3)	91.7 (0.5)		
family have to cut meal size or skip meals because	At last an es	7 ((1 2)	0.2 (0.5)	0.3043	
there wasn't enough money for food?	At least once	7.6 (1.3)	8.3 (0.5)		
When was the last time you saw a dentist for a	In the past year	82.1 (2.9)	82.9 (0.9)		
check–up, exam, teeth cleaning, or other dental	More than a year	17.0 (2.0)		0.5370	
work?	ago	17.9 (2.9)	17.1 (0.9)		
Do you receive free or reduced price lunches at	No	76.5 (5.4)	77.2 (1.7)	0 7700	
school?	Yes	23.5 (5.4)	22.8 (1.7)	0.7730	
Putting them all together, what were your grades	Mostly A's or B's	83.8 (2.2)	82.7 (1.0)	1	
like last year?	Mostly Cs, Ds or Fs	16.2 (2.2)	17.4 (1.0)	0.2861	
,	Yes!/Mostly &				
	yes/def. true	85.7 (2.2)	85.8 (0.7)		
I feel safe at my school.	no/mostly &			0.9190	
	NO/def not true	14.3 (2.2)	14.2 (0.7)		
In the last 30 days, how often have you been	None	71.8 (2.7)	71.1 (0.8)		
bullied?	At least 1 day	28.2 (2.7)	28.9 (0.8)	0.5392	
During the past 30 days, on how many days did	None	96.7 (0.6)	96.9 (0.2)		
you: Carry a weapon such as a gun, knife, or club				0.5788	
on school property?	At least 1 day	3.3 (0.6)	3.1 (0.2)	0.0700	
During the past 30 days, on how many days did	None	97.2 (0.6)	97.3 (0.2)		
you smoke cigarettes?	At least 1 day	2.8 (0.6)	2.7 (0.2)	0.5752	
During the past 30 days, on how many days did	None	95.6 (1.0)	95.4 (0.4)		
you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	4.4 (1.0)	4.6 (0.4)	0.6363	
During the past 30 days, on how many days did	None	93.8 (0.9)	93.5 (0.4)		
you: Drink a glass, can or bottle of alcohol (beer,				0.5855	
wine, wine coolers, hard liquor)?	At least 1 day	6.2 (0.9)	6.5 (0.4)	0.0000	
Think back over the last 2 weeks. How many times	None	97.0 (0.6)	97.1 (0.2)		
have you had five or more drinks in a row? (A		37.0 (0.0)	57.1 (0.2)		
drink is a glass of wine, a bottle of beer, a shot	At least 1 day	3.1 (0.6)	2.9 (0.2)	0.5647	
glass of liquor, or a mixed drink.)	, te lease 2 day	0.12 (0.07	2.3 (0.2)		
	No	94.0 (1.9)	93.5 (0.7)		
Have you ever had sexual intercourse?	Yes	6.0 (1.9)	6.5 (0.7)	0.6078	
	Straight				
	(heterosexual)	83.9 (1.7)	81.6 (0.8)		
Which of the following best describes you?	Gay, lesbian, or not			0.0158	
	Say, iesulali, Of HOL	16.1 (1.7)	18.4 (0.8)		

Table 2c: Comparison of white non-Hispanic student characteristics among 10th graders in the state sample to census schools.

Question	Options	State Sample Percent (±Cl)	Census Percent (±Cl)	Difference p-value
	English	97.0 (0.7)	95.6 (0.5)	•
What language is usually spoken at home?	Other language	3.0 (0.7)	4.4 (0.5)	0.0009
How far did your mother get in school?	Graduated HS or more	92.6 (1.3)	92.9 (0.6)	0.6837
	Didn't graduate HS	7.4 (1.3)	7.1 (0.6)	1
Are your current living arrangements the	No	94.7 (0.7)	94.5 (0.3)	
result of losing your home because your family cannot afford housing?	Yes	5.3 (0.7)	5.5 (0.3)	0.6477
How often in the past 12 months did you or	None	89.6 (1.3)	89.4 (0.6)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	10.4 (1.3)	10.7 (0.6)	0.6734
When was the last time you saw a dentist for	In the past year	82.6 (1.6)	82.8 (0.8)	
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	17.5 (1.6)	17.2 (0.8)	0.7655
Do you receive free or reduced price lunches	No	78.3 (4.0)	77.5 (1.8)	0.0001
at school?	Yes	21.7 (4.0)	22.5 (1.8)	0.6821
Putting them all together, what were your	Mostly A's or B's	79.7 (2.6)	78.8 (1.2)	0 4000
grades like last year?	Mostly Cs, Ds or Fs	20.4 (2.6)	21.2 (1.2)	0.4802
	Yes!/Mostly & yes/def. true	85.2 (1.6)	84.6 (0.9)	0.4858
I feel safe at my school.	no/mostly & NO/def not true	14.9 (1.6)	15.4 (0.9)	
In the last 30 days, how often have you been	None	78.6 (1.4)	77.0 (0.7)	0.0100
bullied?	At least 1 day	21.4 (1.4)	23.0 (0.7)	0.0126
During the past 30 days, on how many days	None	94.4 (1.0)	94.4 (0.4)	
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	5.7 (1.0)	5.7 (0.4)	0.9999
During the past 30 days, on how many days	None	94.0 (0.8)	93.3 (0.5)	0.0000
did you smoke cigarettes?	At least 1 day	6.0 (0.8)	6.7 (0.5)	0.0998
During the past 30 days, on how many days	None	84.3 (1.8)	84.6 (0.7)	
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	15.7 (1.8)	15.4 (0.7)	0.6297
During the past 30 days, on how many days	None	80.1 (1.7)	80.1 (0.7)	
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	19.9 (1.7)	20.0 (0.7)	0.9049
Think back over the last 2 weeks. How many	None	90.3 (1.1)	90.2 (0.5)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	9.7 (1.1)	9.8 (0.5)	0.8416
	No	76.7 (2.9)	77.2 (1.3)	0.0051
Have you ever had sexual intercourse?	Yes	23.3 (2.9)	22.8 (1.3)	0.6951
Which of the following best describes you?	Straight (heterosexual)	81.5 (1.7)	82.0 (0.9)	0 5250
which of the following best describes you!	Gay, lesbian, or not sure	18.5 (1.7)	18.0 (0.9)	- 0.5259

Table 2d: Comparison of white non-Hispanic student characteristics among 12th graders in the state sample to census schools.

Question	Options	State Sample Percent (±Cl)	Census Percent (±Cl)	Difference p-value
	English	97.3 (0.8)	96.2 (0.4)	•
What language is usually spoken at home?	Other language	2.8 (0.8)	3.8 (0.4)	0.0130
How far did your mother get in school?	Graduated HS or more	93.3 (1.3)	92.8 (0.6)	0.3617
	Didn't graduate HS	6.7 (1.3)	7.3 (0.6)	7
Are your current living arrangements the	No	94.4 (0.8)	94.2 (0.4)	
result of losing your home because your family cannot afford housing?	Yes	5.6 (0.8)	5.8 (0.4)	0.6262
How often in the past 12 months did you or	None	86.2 (2.1)	86.9 (0.8)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	13.8 (2.1)	13.1 (0.8)	0.4479
When was the last time you saw a dentist for	In the past year	80.3 (3.4)	79.9 (1.2)	
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	19.7 (3.4)	20.1 (1.2)	0.8084
Do you receive free or reduced price lunches	No	78.6 (3.8)	77.3 (1.7)	0.4436
at school?	Yes	21.4 (3.8)	22.8 (1.7)	0.4430
Putting them all together, what were your	Mostly A's or B's	74.8 (2.7)	74.3 (1.2)	0.6566
grades like last year?	Mostly Cs, Ds or Fs	25.2 (2.7)	25.7 (1.2)	0.0500
	Yes!/Mostly & yes/def. true	85.5 (2.5)	85.9 (0.9)	0.6789
I feel safe at my school.	no/mostly & NO/def not true	14.5 (2.5)	14.1 (0.9)	
In the last 30 days, how often have you been	None	81.9 (1.4)	82.0 (0.6)	
bullied?	At least 1 day	18.1 (1.4)	18.0 (0.6)	0.8938
During the past 30 days, on how many days	None	92.2 (1.3)	92.3 (0.6)	
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	7.8 (1.3)	7.7 (0.6)	0.8491
During the past 30 days, on how many days	None	88.1 (1.8)	87.8 (0.8)	0.0000
did you smoke cigarettes?	At least 1 day	11.9 (1.8)	12.2 (0.8)	0.6832
During the past 30 days, on how many days	None	73.3 (2.0)	73.5 (0.9)	
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	26.7 (2.0)	26.5 (0.9)	0.7969
During the past 30 days, on how many days	None	66.0 (2.8)	65.6 (1.2)	
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	34.0 (2.8)	34.4 (1.2)	0.7317
Think back over the last 2 weeks. How many	None	81.1 (2.0)	81.5 (0.9)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	18.9 (2.0)	18.6 (0.9)	0.7131
	No	49.5 (3.4)	50.1 (1.7)	0.700.1
Have you ever had sexual intercourse?	Yes	50.5 (3.4)	49.9 (1.7)	0.7294
Which of the following best describes you?	Straight (heterosexual)	83.3 (1.8)	82.9 (0.9)	0.6617
which of the following best describes you?	Gay, lesbian, or not sure	16.7 (1.8)	17.1 (0.9)	0.0017

Hispanic Students

Of the 59 comparison tests conducted, 3 showed statistically significant differences. Given that some associations are expected to be statistically significant just by chance, these results indicate that respondents in the state sample are different from census school respondents for the characteristics assessed.

Census school respondents were more likely to report:

• Describing themselves as gay, lesbian, bisexual or questioning (grade 12)

Census school respondents were less likely to report:

- Low grades in school (grade 8)
- Carrying weapons at school (grade 6)

Table 3a: Comparison of Hispanic student characteristics among 6th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference
Question	Options	Percent (±CI)	Percent (±Cl)	p-value
What language is usually spoken at	English	55.9 (6.2)	52.9 (2.5)	0 2220
home?	Other language	44.1 (6.2)	47.1 (2.5)	0.3220
Putting them all together, what were	Mostly A's or B's	80.5 (3.0)	79.5 (1.0)	0 4922
your grades like last year?	Mostly Cs, Ds or Fs	19.5 (3.0)	20.6 (1.0)	0.4832
	Yes!/Mostly & yes/def. true	88.1 (2.0)	89.4 (0.6)	
I feel safe at my school.	no/mostly & NO/def not true	12.0 (2.0)	10.6 (0.6)	0.1329
In the last 30 days, how often have	None	74.0 (2.6)	74.3 (0.9)	0.9005
you been bullied?	At least 1 day	26.1 (2.6)	25.8 (0.9)	0.8095
During the past 30 days, on how	None	95.5 (1.0)	96.3 (0.3)	
many days did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	4.5 (1.0)	3.7 (0.3)	0.0471
During the past 30 days, on how	None	99.3 (0.4)	99.2 (0.2)	0 7070
many days did you smoke cigarettes?	At least 1 day	0.7 (0.4)	0.8 (0.2)	0.7378
During the past 30 days, on how	None	98.6 (0.5)	98.8 (0.2)	
many days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	1.4 (0.5)	1.2 (0.2)	0.5684
During the past 30 days, on how	None	97.6 (0.9)	97.2 (0.4)	
many days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	2.4 (0.9)	2.8 (0.4)	0.4304
Think back over the last 2 weeks.	None	98.1 (0.8)	97.8 (0.3)]
How many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	1.9 (0.8)	2.2 (0.3)	0.5441

Table 3b: Comparison of Hispanic student characteristics among 8th graders in the state sample to census schools.

Question	Ontions	State Sample	Census	Difference
Question	Options	Percent (±CI)	Percent (±CI)	p-value
	English	44.2 (5.5)	46.7 (2.5)	0.3534
What language is usually spoken at home?	Other language	55.8 (5.5)	53.4 (2.5)	0.3524
	Graduated HS or more	60.0 (4.9)	62.7 (2.3)	0.0004
How far did your mother get in school?	Didn't graduate HS	40.0 (4.9)	37.3 (2.3)	0.2601
Are your current living arrangements the	No	94.7 (1.1)	94.4 (0.4)	
result of losing your home because your family cannot afford housing?	Yes	5.4 (1.1)	5.6 (0.4)	0.6700
How often in the past 12 months did you or	None	87.5 (1.9)	87.4 (0.7)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	12.5 (1.9)	12.6 (0.7)	0.9045
When was the last time you saw a dentist for	In the past year	70.3 (4.4)	71.4 (1.5)	
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	29.8 (4.4)	28.6 (1.5)	0.5695
Do you receive free or reduced price lunches	No	37.5 (5.8)	36.8 (2.6)	0.0050
at school?	Yes	62.6 (5.8)	63.2 (2.6)	0.8050
Putting them all together, what were your	Mostly A's or B's	65.5 (3.3)	69.2 (1.5)	
grades like last year?	Mostly Cs, Ds or Fs	34.5 (3.3)	30.8 (1.5)	0.0144
<u> </u>	Yes!/Mostly & yes/def. true	81.9 (2.3)	80.8 (1.2)	
I feel safe at my school.	no/mostly & NO/def not true	18.1 (2.3)	19.3 (1.2)	0.3355
In the last 30 days, how often have you been	None	75.9 (2.1)	75.3 (0.9)	
bullied?	At least 1 day	24.1 (2.1)	24.7 (0.9)	0.5579
During the past 30 days, on how many days	None	95.0 (1.2)	95.3 (0.5)	
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	5.0 (1.2)	4.8 (0.5)	0.6864
During the past 30 days, on how many days	None	96.8 (0.9)	96.7 (0.4)	0.0070
did you smoke cigarettes?	At least 1 day	3.2 (0.9)	3.3 (0.4)	0.8070
During the past 30 days, on how many days	None	90.3 (1.9)	90.1 (0.7)	
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	9.7 (1.9)	9.9 (0.7)	0.8251
During the past 30 days, on how many days	None	89.1 (2.6)	88.8 (0.8)	
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	11.0 (2.6)	11.3 (0.8)	0.8075
Think back over the last 2 weeks. How many	None	94.1 (1.3)	93.3 (0.5)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	6.0 (1.3)	6.7 (0.5)	0.2301
	No	89.5 (4.5)	90.4 (1.3)	
Have you ever had sexual intercourse?	Yes	10.5 (4.5)	9.6 (1.3)	0.6449
	Straight (heterosexual)	85.2 (2.5)	84.2 (1.2)	
Which of the following best describes you?	Gay, lesbian, or not sure	14.8 (2.5)	15.8 (1.2)	0.4185
95% confidence interval n-value significant if less th		17.0 (2.3)	13.0 (1.2)	1

Table 3c: Comparison of Hispanic student characteristics among 10th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference
Question	Options	Percent (±CI)	Percent (±CI)	p-value
What language is usually spoken at home?	English	43.4 (5.5)	45.0 (2.6)	0.4954
what language is usually spoken at nonic :	Other language	56.7 (5.5)	55.0 (2.6)	0.4554
How far did your mother get in school?	Graduated HS or more	57.8 (5.5)	58.4 (2.5)	0.7952
now far did your mother get in school:	Didn't graduate HS	42.2 (5.5)	41.6 (2.5)	0.7552
Are your current living arrangements the	No	93.5 (1.3)	93.4 (0.5)	
result of losing your home because your family cannot afford housing?	Yes	6.5 (1.3)	6.6 (0.5)	0.7652
How often in the past 12 months did you or	None	85.4 (1.2)	84.5 (0.8)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	14.6 (1.2)	15.6 (0.8)	0.1189
When was the last time you saw a dentist	In the past year	77.0 (3.0)	75.9 (1.3)	
for a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	23.0 (3.0)	24.1 (1.3)	0.4067
Do you receive free or reduced price lunches	No	33.7 (7.1)	36.8 (3.1)	0.3109
at school?	Yes	66.3 (7.1)	63.2 (3.1)	0.3109
Putting them all together, what were your	Mostly A's or B's	63.9 (3.1)	64.2 (1.4)	0 0 2 2 0
grades like last year?	Mostly Cs, Ds or Fs	36.1 (3.1)	35.8 (1.4)	0.8239
	Yes!/Mostly & yes/def. true	80.5 (1.9)	80.3 (1.1)	
I feel safe at my school.	no/mostly & NO/def not true	19.6 (1.9)	19.7 (1.1)	0.8402
In the last 30 days, how often have you been	None	82.4 (1.8)	81.2 (1.0)	0.4266
bullied?	At least 1 day	17.6 (1.8)	18.8 (1.0)	0.1366
During the past 30 days, on how many days	None	94.2 (1.0)	94.3 (0.5)	
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	5.8 (1.0)	5.7 (0.5)	0.8049
During the past 30 days, on how many days	None	94.3 (1.1)	93.9 (0.6)	0 45 27
did you smoke cigarettes?	At least 1 day	5.7 (1.1)	6.1 (0.6)	0.4527
During the past 30 days, on how many days	None	80.3 (1.9)	80.5 (1.0)	
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	19.7 (1.9)	19.5 (1.0)	0.7540
During the past 30 days, on how many days	None	78.2 (2.3)	77.3 (1.0)	
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	21.8 (2.3)	22.7 (1.0)	0.3763
Think back over the last 2 weeks. How many	None	87.0 (1.8)	86.8 (0.7)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	13.0 (1.8)	13.2 (0.7)	0.7819
	No	69.5 (3.3)	71.4 (1.6)	
Have you ever had sexual intercourse?	Yes	30.5 (3.3)	28.6 (1.6)	0.1972
	Straight (heterosexual)	84.5 (1.9)	84.0 (1.0)	
Which of the following best describes you?	Gay, lesbian, or not sure	15.5 (1.9)	16.0 (1.0)	0.5753

Table 3d: Comparison of Hispanic student characteristics among 12th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference
	options	Percent (±CI)	Percent (±CI)	p-value
What language is usually spoken at home?	English	45.5 (5.6)	45.0 (2.6)	0.8375
what language is usually spoken at nome:	Other language	54.5 (5.6)	55.0 (2.6)	0.8375
How for did your mother get in school?	Graduated HS or more	53.0 (5.7)	55.4 (2.6)	0.2145
How far did your mother get in school?	Didn't graduate HS	47.1 (5.7)	44.6 (2.6)	0.3145
Are your current living arrangements the	No	93.5 (1.5)	93.2 (0.6)	
result of losing your home because your family cannot afford housing?	Yes	6.5 (1.5)	6.8 (0.6)	0.5665
How often in the past 12 months did you or	None	81.0 (1.7)	81.4 (0.9)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	19.0 (1.7)	18.6 (0.9)	0.5971
When was the last time you saw a dentist for	In the past year	76.0 (3.0)	74.5 (1.4)	
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	24.0 (3.0)	25.6 (1.4)	0.2530
Do you receive free or reduced price lunches	No	29.7 (8.6)	33.5 (3.4)	0.0000
at school?	Yes	70.3 (8.6)	66.5 (3.4)	0.2990
Putting them all together, what were your	Mostly A's or B's	61.9 (3.5)	60.6 (1.5)	
grades like last year?	Mostly Cs, Ds or Fs	38.2 (3.5)	39.4 (1.5)	0.4400
<u> </u>	Yes!/Mostly & yes/def. true	82.9 (2.1)	83.4 (1.1)	0.6058
I feel safe at my school.	no/mostly & NO/def not true	17.1 (2.1)	16.6 (1.1)	
In the last 30 days, how often have you been	None	85.8 (1.5)	85.1 (0.9)	
bullied?	At least 1 day	14.2 (1.5)	14.9 (0.9)	0.2943
During the past 30 days, on how many days	None	94.2 (1.2)	94.1 (0.6)	
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	5.8 (1.2)	5.9 (0.6)	0.8086
During the past 30 days, on how many days	None	92.6 (1.4)	91.7 (0.8)	0.4546
did you smoke cigarettes?	At least 1 day	7.4 (1.4)	8.3 (0.8)	0.1546
During the past 30 days, on how many days	None	74.7 (1.9)	74.5 (1.2)	
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	25.3 (1.9)	25.6 (1.2)	0.7719
During the past 30 days, on how many days	None	70.9 (2.0)	69.0 (1.1)	
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	29.1 (2.0)	31.0 (1.1)	0.0524
Think back over the last 2 weeks. How many	None	82.3 (1.9)	81.8 (0.9)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	17.7 (1.9)	18.2 (0.9)	0.5829
	No	46.7 (3.9)	49.2 (2.2)	1
Have you ever had sexual intercourse?	Yes	53.3 (3.9)	50.8 (2.2)	0.1803
	Straight (heterosexual)	87.1 (2.0)	84.8 (1.3)	
Which of the following best describes you?	Gay, lesbian, or not sure	12.9 (2.0)	15.2 (1.3)	0.0218

American Indian/Alaska Native non-Hispanic Students

Census school respondents were more likely to report:

• Non-English language spoken at home (grade 6)

Census school respondents were less likely to report:

- Low grades in school (grade 10)
- Ever had sex (grade 10)

Table 4a: Comparison of American Indian/Alaska Native non-Hispanic student characteristics among
6th graders in the state sample to census schools.

Question	Ontions	State Sample	Census	Difference	
Question	Options	Percent (±CI)	Percent (±CI)	p-value	
What language is usually spoken at	English	93.3 (2.2)	90.6 (1.4)	0.0224	
home?	Other language	6.7 (2.2)	9.4 (1.4)	0.0334	
Putting them all together, what were	Mostly A's or B's	81.6 (3.0)	80.1 (1.2)	0.3231	
your grades like last year?	Mostly Cs, Ds or Fs	18.4 (3.0)	19.9 (1.2)		
	Yes!/Mostly & yes/def. true	89.1 (2.0)	89.1 (0.8)	0.9471	
I feel safe at my school.	no/mostly & NO/def not true	10.9 (2.0)	10.9 (0.8)	0.9471	
In the last 30 days, how often have	None	73.7 (3.7)	70.8 (1.4)	0.1061	
you been bullied?	At least 1 day	26.3 (3.7)	29.2 (1.4)	0.1001	
During the past 30 days, on how many	None	96.5 (1.2)	96.4 (0.5)		
days did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	3.5 (1.2)	3.7 (0.5)	0.8306	
During the past 30 days, on how many	None	99.6 (0.4)	99.2 (0.2)		
days did you smoke cigarettes?	At least 1 day	0.4 (0.4)	0.8 (0.2)	0.1660	
During the past 30 days, on how many	None	98.8 (0.8)	98.9 (0.3)		
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	1.2 (0.8)	1.1 (0.3)	0.8901	
During the past 30 days, on how many	None	98.5 (0.7)	98.3 (0.3)		
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	1.5 (0.7)	1.7 (0.3)	0.6064	
Think back over the last 2 weeks. How	None	98.9 (0.6)	98.2 (0.3)		
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	1.1 (0.6)	1.8 (0.3)	0.0701	

Question	Options	State Sample	Census	Difference
Question		Percent (±CI)	Percent (±CI)	p-value
What language is usually snaken at home?	English	90.0 (3.6)	91.1 (1.3)	0.4005
What language is usually spoken at home?	Other language	10.1 (3.6)	9.0 (1.3)	0.4985
How far did your mother get in school?	Graduated HS or more	83.6 (4.4)	85.7 (1.5)	0.2997
	Didn't graduate HS	16.4 (4.4)	14.3 (1.5)	
Are your current living arrangements the result of losing your home because your family cannot afford housing?	No	90.1 (3.4)	91.7 (1.1)	
	Yes	9.9 (3.4)	8.4 (1.1)	0.2703
How often in the past 12 months did you or your family have to cut meal size or skip meals because there wasn't enough money for food?	None	83.1 (4.9)	84.9 (1.4)	
	At least once	16.9 (4.9)	15.1 (1.4)	0.3876
When was the last time you saw a dentist for	In the past year	69.1 (7.5)	69.4 (2.5)	
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	31.0 (7.5)	30.6 (2.5)	0.9186
Do you receive free or reduced price lunches	No	56.3 (8.6)	56.9 (3.6)	0.9051
at school?	Yes	43.7 (8.6)	43.1 (3.6)	0.8951
Putting them all together, what were your	Mostly A's or B's	68.9 (4.6)	68.2 (2.1)	0.7507
grades like last year?	Mostly Cs, Ds or Fs	31.1 (4.6)	31.8 (2.1)	0.7527
<u> </u>	Yes!/Mostly &	81.6 (3.6)	80.9 (1.5)	

yes/def. true

no/mostly &

At least 1 day

(heterosexual)

Gay, lesbian, or not

None

None

None

None

None

None

No

Yes

sure

Straight

NO/def not true

18.4 (3.6)

67.8 (4.0)

32.2 (4.0)

96.8 (1.6)

3.2 (1.6)

94.5 (2.3)

5.5 (2.3)

91.0 (2.5)

9.1 (2.5)

92.2 (2.6)

7.8 (2.6)

93.9 (2.5)

6.1 (2.5)

92.3 (5.7)

7.7 (5.7)

73.1 (4.7)

26.9 (4.7)

Table 4b: Comparison of American Indian/Alaska Native non-Hispanic student characteristics among
8th graders in the state sample to census schools.

95% confidence interval, p-value significant if less than 0.05

I feel safe at my school.

or club on school property?

did you smoke cigarettes?

bullied?

hash, pot)?

In the last 30 days, how often have you been

During the past 30 days, on how many days

did you: Carry a weapon such as a gun, knife,

During the past 30 days, on how many days

During the past 30 days, on how many days

During the past 30 days, on how many days

times have you had five or more drinks in a

row? (A drink is a glass of wine, a bottle of

Which of the following best describes you?

Have you ever had sexual intercourse?

beer, a shot glass of liquor, or a mixed drink.)

(beer, wine, wine coolers, hard liquor)? Think back over the last 2 weeks. How many

did you: Drink a glass, can or bottle of alcohol

did you: Use marijuana or hashish (weed,

0.6871

0.9818

0.1041

0.7380

0.8864

0.9013

0.2108

0.2285

0.0695

19.1 (1.5)

67.7 (1.7)

32.3 (1.7)

95.2 (0.8)

4.8 (0.8)

94.8 (0.8)

5.2 (0.8)

91.1 (1.2)

8.9 (1.2)

92.1 (1.0)

7.9 (1.0)

95.2 (0.8)

4.8 (0.8)

88.3 (2.3)

11.7 (2.3)

77.3 (2.2)

22.7 (2.2)

Table 4c: Comparison of American Indian/Alaska Native non-Hispanic student characteristics among10th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference	
	Options	Percent (±CI)	Percent (±Cl)	p-value	
What language is usually snoken at home?	English	89.3 (4.0)	87.4 (2.0)	0.3413	
What language is usually spoken at home?	Other language	10.7 (4.0)	12.6 (2.0)	0.3415	
	Graduated HS or	91 F (4 C)	92 1 (2 Г)		
How far did your mother get in school?	more	81.5 (4.6)	82.1 (2.5)	0.7701	
	Didn't graduate HS	18.5 (4.6)	17.9 (2.5)		
Are your current living arrangements the result	No	92.1 (3.4)	91.4 (1.5)		
of losing your home because your family cannot	Yes	7.9 (3.4)	8.6 (1.5)	0.6671	
afford housing?	Tes	7.9 (5.4)	0.0 (1.5)		
How often in the past 12 months did you or your	None	77.1 (5.0)	77.9 (2.2)		
family have to cut meal size or skip meals	At least once	22.9 (5.0)	22.1 (2.2)	0.7033	
because there wasn't enough money for food?	At least once	22.9 (5.0)	22.1 (2.2)		
When was the last time you saw a dentist for a	In the past year	67.5 (9.1)	70.3 (3.6)		
check–up, exam, teeth cleaning, or other dental	More than a year	22 E (0 1)	20 7 (2 6)	0.4734	
work?	ago	32.5 (9.1)	29.7 (3.6)		
Do you receive free or reduced price lunches at	No	56.5 (12.5)	55.7 (4.6)	- 0.8835	
school?	Yes	43.5 (12.5)	44.3 (4.6)		
Putting them all together, what were your grades	Mostly A's or B's	54.4 (5.6)	60.0 (2.8)	0.0279	
like last year?	Mostly Cs, Ds or Fs	45.6 (5.6)	40.0 (2.8)		
l feel safe at my school.	Yes!/Mostly &				
	yes/def. true	79.1 (5.4)	77.0 (2.2)	0.44.60	
	no/mostly &		22.0 (2.0)	0.4162	
	NO/def not true	21.0 (5.4)	23.0 (2.2)		
In the last 30 days, how often have you been	None	71.3 (5.3)	72.5 (2.2)		
bullied?	At least 1 day	28.7 (5.3)	27.5 (2.2)	0.6161	
During the past 30 days, on how many days did	None	90.2 (3.9)	90.4 (1.6)		
you: Carry a weapon such as a gun, knife, or club				0.9172	
on school property?	At least 1 day	9.8 (3.9)	9.6 (1.6)		
During the past 30 days, on how many days did	None	88.5 (4.1)	87.4 (1.8)	0.5363	
you smoke cigarettes?	At least 1 day	11.6 (4.1)	12.6 (1.8)	0.5767	
During the past 30 days, on how many days did	None	75.6 (5.2)	76.4 (2.4)	0 7 4 4 7	
you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	24.4 (5.2)	23.6 (2.4)	0.7447	
During the past 30 days, on how many days did	None	76.0 (5.2)	76.3 (2.3)		
you: Drink a glass, can or bottle of alcohol (beer,				0.9052	
wine, wine coolers, hard liquor)?	At least 1 day	24.0 (5.2)	23.7 (2.3)		
Think back over the last 2 weeks. How many	None	83.5 (4.6)	84.7 (2.0)		
times have you had five or more drinks in a row?				0.5764	
(A drink is a glass of wine, a bottle of beer, a shot	At least 1 day	16.5 (4.6)	15.4 (2.0)	0.5761	
glass of liquor, or a mixed drink.)					
	No	56.2 (9.8)	64.6 (4.4)	0.0400*	
Have you ever had sexual intercourse?	Yes	43.8 (9.8)	35.4 (4.4)	0.0490*	
	Straight			1	
	(heterosexual)	74.7 (6.6)	76.8 (2.7)		
Which of the following best describes you?	Gay, lesbian, or not			0.4708	
	sure	25.3 (6.6)	23.2 (2.7)		

95% confidence interval, p-value significant if less than 0.05

*Not significant when adjusted for gender

Table 4d: Comparison of American Indian/Alaska Native non-Hispanic student characteristics among
12th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference
	•	Percent (±CI)	Percent (±Cl)	p-value
What language is usually spoken at home?	English	90.1 (5.0)	90.6 (2.2)	0.8457
what language is askally spoken at nome.	Other language	9.9 (5.0)	9.4 (2.2)	0.0457
How far did your mother get in school?	Graduated HS or more	83.0 (6.5)	83.6 (2.9)	0.8312
	Didn't graduate HS	17.0 (6.5)	16.4 (2.9)	
Are your current living arrangements the	No	90.3 (5.3)	90.9 (2.1)	
result of losing your home because your family cannot afford housing?	Yes	9.7 (5.3)	9.1 (2.1)	0.8121
How often in the past 12 months did you or	None	80.4 (6.3)	78.5 (2.8)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	19.6 (6.3)	21.5 (2.8)	0.5290
When was the last time you saw a dentist for	In the past year	64.1 (10.3)	67.6 (4.6)	
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	35.9 (10.3)	32.5 (4.6)	0.4607
Do you receive free or reduced price lunches	No	56.9 (14.1)	53.0 (6.2)	
at school?	Yes	43.1 (14.1)	47.0 (6.2)	0.5424
Putting them all together, what were your	Mostly A's or B's	57.5 (7.2)	60.1 (3.7)	0.4442
grades like last year?	Mostly Cs, Ds or Fs	42.5 (7.2)	39.9 (3.7)	
feel safe at my school.	Yes!/Mostly & yes/def. true	74.7 (7.2)	79.8 (2.7)	0.0782
	no/mostly & NO/def not true	25.3 (7.2)	20.2 (2.7)	
In the last 30 days, how often have you been	None	77.3 (7.2)	79.1 (2.8)	-
bullied?	At least 1 day	22.7 (7.2)	20.9 (2.8)	0.5662
During the past 30 days, on how many days	None	90.1 (5.3)	89.1 (2.3)	
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	9.9 (5.3)	10.9 (2.3)	0.6876
During the past 30 days, on how many days	None	84.8 (4.9)	81.5 (2.7)	0.2052
did you smoke cigarettes?	At least 1 day	15.2 (4.9)	18.5 (2.7)	0.2052
During the past 30 days, on how many days	None	68.9 (6.7)	66.8 (3.0)	
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	31.1 (6.7)	33.2 (3.0)	0.5020
During the past 30 days, on how many days	None	68.3 (8.3)	67.8 (3.3)	
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	31.7 (8.3)	32.2 (3.3)	0.8987
Think back over the last 2 weeks. How many	None	80.3 (5.3)	78.8 (2.7)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	19.8 (5.3)	21.2 (2.7)	0.5701
	No	41.1 (12.0)	41.4 (6.0)	0.0505
Have you ever had sexual intercourse?	Yes	58.9 (12.0)	58.6 (6.0)	0.9535
	Straight (heterosexual)	79.8 (7.2)	77.9 (3.4)	0.5000
Which of the following best describes you?	Gay, lesbian, or not sure	20.2 (7.2)	22.1 (3.4)	- 0.5806

Asian non-Hispanic Students

Census school respondents were more likely to report:

• Non-English language spoken at home (grades 10 and 12)

Census school respondents were less likely to report:

- Low grades in school (grades 8 and 12)
- Feeling unsafe at school (grade 12)
- Current cigarette smoking (grade 12)
- Ever having sex (grade 12)

Table 5a: Comparison of Asian non-Hispanic student characteristics among 6th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference
Question		Percent (±CI)	Percent (±CI)	p-value
What language is usually spoken at	English	70.4 (5.9)	69.9 (2.4)	0.8404
home?	Other language	29.6 (5.9)	30.1 (2.4)	0.8494
Putting them all together, what were	Mostly A's or B's	87.6 (3.1)	88.5 (1.1)	0 5 1 2 5
your grades like last year?	Mostly Cs, Ds or Fs	12.4 (3.1)	11.5 (1.1)	0.5125
I feel safe at my school	Yes!/Mostly & yes/def. true	92.2 (1.6)	91.3 (0.7)	0.2495
I feel safe at my school.	no/mostly & NO/def not true	7.8 (1.6)	8.7 (0.7)	0.2485
In the last 30 days, how often have	None	77.6 (2.9)	75.3 (1.1)	0.1005
you been bullied?	At least 1 day	22.4 (2.9)	24.7 (1.1)	0.1005
During the past 30 days, on how many	None	96.8 (0.8)	97.1 (0.4)	
days did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	3.2 (0.8)	3.0 (0.4)	0.4339
During the past 30 days, on how many	None	99.5 (0.4)	99.6 (0.1)	0.4005
days did you smoke cigarettes?	At least 1 day	0.5 (0.4)	0.4 (0.1)	0.4885
During the past 30 days, on how many	None	99.7 (0.3)	99.5 (0.2)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	0.3 (0.3)	0.5 (0.2)	0.3158
During the past 30 days, on how many	None	98.6 (0.7)	98.7 (0.2)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	1.5 (0.7)	1.3 (0.2)	0.5287
Think back over the last 2 weeks. How	None	99.2 (0.5)	99.0 (0.2)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	0.8 (0.5)	1.1 (0.2)	0.3494

Table 5b: Comparison of Asian non-Hispanic student characteristics among 8th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference
	_	Percent (±Cl)	Percent (±Cl)	p-value
What language is usually spoken at home?	English	62.8 (8.1)	60.3 (2.4)	0.5145
	Other language	37.2 (8.1)	39.7 (2.4)	
How far did your mother get in school?	Graduated HS or more	88.2 (4.9)	90.7 (1.5)	0.2264
	Didn't graduate HS	11.8 (4.9)	9.3 (1.5)	
Are your current living arrangements the	No	94.2 (2.2)	95.2 (0.6)	
result of losing your home because your family cannot afford housing?	Yes	5.8 (2.2)	4.8 (0.6)	0.3281
How often in the past 12 months did you or	None	90.6 (3.3)	92.7 (0.9)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	9.4 (3.3)	7.3 (0.9)	0.1179
When was the last time you saw a dentist for	In the past year	74.9 (4.4)	78.4 (1.8)	-
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	25.1 (4.4)	21.6 (1.8)	0.0923
Do you receive free or reduced price lunches	No	64.3 (9.8)	72.5 (3.4)	
at school?	Yes	35.8 (9.8)	27.5 (3.4)	0.0581
Putting them all together, what were your	Mostly A's or B's	85.6 (3.3)	89.3 (1.3)	0.0097
grades like last year?	Mostly Cs, Ds or Fs	14.4 (3.3)	10.7 (1.3)	
feel safe at my school.	Yes!/Mostly & yes/def. true	84.3 (2.0)	85.8 (1.3)	
	no/mostly & NO/def not true	15.7 (2.0)	14.2 (1.3)	0.1860
In the last 30 days, how often have you been	None	75.1 (3.3)	77.0 (1.3)	-
bullied?	At least 1 day	24.9 (3.3)	23.0 (1.3)	0.2188
During the past 30 days, on how many days	None	97.2 (1.0)	97.3 (0.4)	
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	2.8 (1.0)	2.7 (0.4)	0.8425
During the past 30 days, on how many days	None	98.4 (0.8)	98.4 (0.4)	0.0007
did you smoke cigarettes?	At least 1 day	1.6 (0.8)	1.7 (0.4)	0.8897
During the past 30 days, on how many days	None	97.3 (1.0)	97.3 (0.5)	
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	2.7 (1.0)	2.7 (0.5)	0.9781
During the past 30 days, on how many days	None	95.4 (1.6)	95.9 (0.5)	
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	4.6 (1.6)	4.1 (0.5)	0.4893
Think back over the last 2 weeks. How many	None	97.5 (1.1)	97.7 (0.4)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	2.5 (1.1)	2.3 (0.4)	0.7126
	No	92.4 (3.7)	95.2 (1.1)	0.0500
Have you ever had sexual intercourse?	Yes	7.6 (3.7)	4.8 (1.1)	0.0523
Which of the following best describes were?	Straight (heterosexual)	80.9 (3.6)	80.7 (1.3)	0.0200
Which of the following best describes you?	Gay, lesbian, or not sure	19.1 (3.6)	19.3 (1.3)	0.9208

Table 5c: Comparison of Asian non-Hispanic student characteristics among 10th graders in the state sample to census schools.

Question	Ontions	State Sample	Census	Difference	
Question	Options	Percent (±CI)	Percent (±CI)	p-value	
What language is usually spoken at home?	English	64.5 (7.7)	54.6 (2.4)	0.0098*	
what language is usually spoken at nonner	Other language	35.5 (7.7)	45.4 (2.4)	0.0098	
	Graduated HS or	88.8 (4.6)	88.2 (2.0)		
How far did your mother get in school?	more	88.8 (4.0)	88.2 (2.0)	0.7932	
	Didn't graduate HS	11.2 (4.6)	11.8 (2.0)		
Are your current living arrangements the result	No	94.7 (1.9)	94.7 (0.7)		
of losing your home because your family cannot	Yes	5.3 (1.9)	5.3 (0.7)	0.9782	
afford housing?	105	5.5 (1.5)	5.5 (0.7)		
How often in the past 12 months did you or your	None	92.2 (2.9)	91.7 (1.0)		
family have to cut meal size or skip meals	At least once	7.8 (2.9)	8.3 (1.0)	0.7280	
because there wasn't enough money for food?	At least office				
When was the last time you saw a dentist for a	In the past year	80.8 (5.0)	79.7 (2.0)		
check–up, exam, teeth cleaning, or other dental	More than a year	19.2 (5.0)	20.3 (2.0)	0.6620	
work?	ago				
Do you receive free or reduced price lunches at	No	73.8 (8.5)	73.5 (3.7)	0.9474	
school?	Yes	26.2 (8.5)	26.5 (3.7)		
Putting them all together, what were your grades	Mostly A's or B's	86.7 (3.8)	88.3 (1.3)	0.3462	
like last year?	Mostly Cs, Ds or Fs	13.3 (3.8)	11.7 (1.3)		
I feel safe at my school.	Yes!/Mostly &	83.0 (3.8)	86.4 (1.4)		
	yes/def. true	83.0 (3.8)	80.4 (1.4)	0.0485*	
	no/mostly &	17.0 (3.8)	13.6 (1.4)	0.0485	
	NO/def not true	17.0 (5.8)	15.0 (1.4)		
In the last 30 days, how often have you been	None	84.4 (3.7)	83.4 (1.2)	0.5986	
bullied?	At least 1 day	15.6 (3.7)	16.6 (1.2)	0.3980	
During the past 30 days, on how many days did	None	96.1 (1.8)	96.5 (0.6)		
you: Carry a weapon such as a gun, knife, or club	At least 1 day	3.9 (1.8)	3.5 (0.6)	0.6181	
on school property?					
During the past 30 days, on how many days did	None	97.0 (1.4)	97.0 (0.5)	0.9199	
you smoke cigarettes?	At least 1 day	3.0 (1.4)	3.0 (0.5)		
During the past 30 days, on how many days did	None	90.3 (2.9)	92.3 (1.0)	0.1058	
you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	9.7 (2.9)	7.7 (1.0)	0.1000	
During the past 30 days, on how many days did	None	87.1 (2.7)	89.2 (1.2)		
you: Drink a glass, can or bottle of alcohol (beer,	At least 1 day	13.0 (2.7)	10.8 (1.2)	0.0859	
wine, wine coolers, hard liquor)?	The rease 2 day				
Think back over the last 2 weeks. How many	None	93.7 (2.3)	94.9 (0.7)	_	
times have you had five or more drinks in a row?				0.2124	
(A drink is a glass of wine, a bottle of beer, a shot	At least 1 day	6.3 (2.3)	5.1 (0.7)	0.2127	
glass of liquor, or a mixed drink.)					
Have you ever had sexual intercourse?	No	91.0 (3.7)	87.4 (1.8)	0.0892	
	Yes	9.0 (3.7)	12.6 (1.8)		
	Straight	82.7 (2.6)	83.7 (1.3)		
Which of the following best describes you?	(heterosexual)			0.4710	
which of the following best describes you?	Gay, lesbian, or not	17.3 (2.6)	16.3 (1.3)		
D5% confidence interval a value cignificant if less than 0	sure	11.0 (2.0)	10.0 (1.0)		

95% confidence interval, p-value significant if less than 0.05

*Not significant when adjusted for gender

Table 5d: Comparison of Asian non-Hispanic student characteristics among 12th graders in the state sample to census schools.

Question	Options	State Sample Percent (±Cl)	Census Percent (±Cl)	Difference p-value	
	English	61.2 (7.5)	53.7 (3.1)		
What language is usually spoken at home?	Other language	38.8 (7.5)	46.3 (3.1)	0.0483	
How far did your mother get in school?	Graduated HS or more	84.5 (5.1)	87.3 (2.5)	0.2500	
	Didn't graduate HS	15.5 (5.1)	12.7 (2.5)		
Are your current living arrangements the	No	96.4 (1.8)	94.9 (1.0)		
result of losing your home because your family cannot afford housing?	Yes	3.6 (1.8)	5.1 (1.0)	0.1660	
How often in the past 12 months did you or	None	87.5 (3.8)	89.8 (1.3)		
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	12.5 (3.8)	10.2 (1.3)	0.1720	
When was the last time you saw a dentist for	In the past year	75.9 (6.6)	77.6 (2.4)		
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	24.1 (6.6)	22.4 (2.4)	0.5956	
Do you receive free or reduced price lunches	No	64.0 (9.7)	71.7 (4.2)		
at school?	Yes	36.1 (9.7)	28.3 (4.2)	0.0936	
Putting them all together, what were your	Mostly A's or B's	78.7 (5.3)	84.4 (2.0)	0.0146	
grades like last year?	Mostly Cs, Ds or Fs	21.3 (5.3)	15.6 (2.0)		
l feel safe at my school.	Yes!/Mostly & yes/def. true	84.0 (3.9)	87.5 (1.5)	0.0000	
	no/mostly & NO/def not true	16.0 (3.9)	12.5 (1.5)	0.0390	
In the last 30 days, how often have you been	None	85.2 (3.3)	86.4 (1.4)	0.45.00	
bullied?	At least 1 day	14.8 (3.3)	13.6 (1.4)	0.4568	
During the past 30 days, on how many days	None	93.5 (2.9)	95.4 (0.8)		
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	6.5 (2.9)	4.6 (0.8)	0.1004	
During the past 30 days, on how many days	None	90.9 (2.9)	94.1 (1.0)	0.0072	
did you smoke cigarettes?	At least 1 day	9.1 (2.9)	5.9 (1.0)	0.0073	
During the past 30 days, on how many days	None	81.4 (4.5)	84.8 (1.6)		
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	18.6 (4.5)	15.2 (1.6)	0.0955	
During the past 30 days, on how many days	None	76.7 (4.0)	77.3 (1.8)		
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	23.3 (4.0)	22.7 (1.8)	0.7503	
Think back over the last 2 weeks. How many	None	87.7 (2.6)	89.1 (1.2)		
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	12.3 (2.6)	10.9 (1.2)	0.2577	
	No	63.2 (9.1)	71.4 (2.7)	0.0400	
Have you ever had sexual intercourse?	Yes	36.8 (9.1)	28.6 (2.7)	0.0408	
Which of the following best describes you?	Straight (heterosexual)	86.4 (3.5)	83.6 (1.6)	0 1 4 1 1	
Which of the following best describes you?	Gay, lesbian, or not sure	13.6 (3.5)	16.4 (1.6)	0.1411	

Black/African American non-Hispanic Students

Census school respondents were less likely to report:

• Carrying a weapon at school (grade 12)

Table 6a: Comparison of Black/African American non-Hispanic student characteristics among 6th	
graders in the state sample to census schools.	

Question	Ontions	State Sample	Census	Difference
Question	Options	Percent (±Cl)	Percent (±CI)	p-value
What language is usually spoken at	English	87.4 (3.2)	85.8 (1.6)	0.3629
home?	Other language	12.6 (3.2)	14.2 (1.6)	0.3029
Putting them all together, what were	Mostly A's or B's	80.5 (3.6)	81.2 (1.2)	0 7022
your grades like last year?	Mostly Cs, Ds or Fs	19.5 (3.6)	18.8 (1.2)	0.7023
	Yes!/Mostly &	88.7 (2.4)	89.5 (0.9)	
I feel safe at my school.	yes/def. true	. ,	. ,	0.5000
,	no/mostly & NO/def not true	11.3 (2.4)	10.5 (0.9)	
In the last 30 days, how often have	None	76.3 (3.4)	74.2 (1.3)	
you been bullied?	At least 1 day	23.7 (3.4)	25.8 (1.3)	0.2109
During the past 30 days, on how many	None	96.3 (1.3)	96.4 (0.5)	
days did you: Carry a weapon such as				0 7050
a gun, knife, or club on school	At least 1 day	3.8 (1.3)	3.6 (0.5)	0.7852
property?				
During the past 30 days, on how many	None	99.4 (0.5)	99.4 (0.2)	0.9972
days did you smoke cigarettes?	At least 1 day	0.7 (0.5)	0.7 (0.2)	0.9972
During the past 30 days, on how many	None	99.1 (0.7)	99.1 (0.3)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	0.9 (0.7)	0.9 (0.3)	0.9374
During the past 30 days, on how many	None	98.7 (0.8)	98.4 (0.3)	
days did you: Drink a glass, can or				0 5 8 2 0
bottle of alcohol (beer, wine, wine	At least 1 day	1.3 (0.8)	1.6 (0.3)	0.5829
coolers, hard liquor)?				
Think back over the last 2 weeks. How	None	98.1 (1.0)	98.1 (0.4)	
many times have you had five or more				
drinks in a row? (A drink is a glass of	At least once	1.9 (1.0)	1.9 (0.4)	0.9730
wine, a bottle of beer, a shot glass of		1.5 (1.0)	1.5 (0.4)	
liquor, or a mixed drink.)				

Table 6b: Comparison of Black/African American non-Hispanic student characteristics among 8th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference
		Percent (±Cl)	Percent (±CI)	p-value
What language is usually spoken at home?	English	84.4 (6.2)	82.3 (2.1)	0.4857
	Other language	15.6 (6.2)	17.7 (2.1)	
How far did your mother get in school?	Graduated HS or	86.8 (3.7)	87.4 (1.4)	0.7208
	more			
	Didn't graduate HS	13.2 (3.7)	12.6 (1.4)	
Are your current living arrangements the result	No	92.6 (2.8)	93.1 (1.0)	0.6879
of losing your home because your family cannot afford housing?	Yes	7.4 (2.8)	6.9 (1.0)	
How often in the past 12 months did you or	None	87.5 (3.4)	87.2 (1.2)	0.8762
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	12.6 (3.4)	12.8 (1.2)	
When was the last time you saw a dentist for a	In the past year	71.4 (5.9)	70.9 (2.3)	0.8522
check–up, exam, teeth cleaning, or other dental work?	More than a year ago	28.6 (5.9)	29.1 (2.3)	
Do you receive free or reduced price lunches at	No	53.4 (9.0)	53.5 (3.2)	0.9868
school?	Yes	46.6 (9.0)	46.5 (3.2)	
Putting them all together, what were your	Mostly A's or B's	73.8 (4.5)	73.1 (1.7)	0 7 4 2 7
grades like last year?	Mostly Cs, Ds or Fs	26.2 (4.5)	26.9 (1.7)	0.7437
I feel safe at my school.	Yes!/Mostly & yes/def. true	81.9 (3.7)	81.1 (1.5)	0.6720
	no/mostly & NO/def not true	18.2 (3.7)	18.9 (1.5)	
In the last 30 days, how often have you been	None	77.4 (3.0)	75.5 (1.6)	0.2206
bullied?	At least 1 day	22.6 (3.0)	24.5 (1.6)	
During the past 30 days, on how many days did	None	95.9 (1.5)	95.0 (0.7)	0.2843
you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	4.1 (1.5)	5.0 (0.7)	
During the past 30 days, on how many days did	None	96.0 (1.8)	96.2 (0.6)	0.7861
ou smoke cigarettes?	At least 1 day	4.1 (1.8)	3.8 (0.6)	
During the past 30 days, on how many days did you: Use marijuana or hashish (weed, hash, pot)?	None	92.6 (2.8)	92.5 (1.0)	0.9313
	At least 1 day	7.4 (2.8)	7.6 (1.0)	
During the past 30 days, on how many days did	None	93.3 (2.0)	92.7 (0.9)	0.5271
you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	6.7 (2.0)	7.3 (0.9)	
Think back over the last 2 weeks. How many	None	94.9 (1.9)	95.2 (0.8)	0.7729
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	5.1 (1.9)	4.8 (0.8)	
Have you ever had sexual intercourse?	No	89.5 (6.9)	87.6 (2.3)	0.6007
	Yes	10.5 (6.9)	12.4 (2.3)	
Which of the following best describes you?	Straight (heterosexual)	81.3 (4.8)	81.9 (1.9)	0.7804
	Gay, lesbian, or not sure	18.8 (4.8)	18.1 (1.9)	

Table 6c: Comparison of Black/African American non-Hispanic student characteristics among 10th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference
		Percent (±CI)	Percent (±Cl)	p-value
What language is usually spoken at home?	English	82.5 (6.6)	79.7 (2.6)	0.3941
	Other language	17.5 (6.6)	20.4 (2.6)	0.5541
	Graduated HS or	84.1 (4.7)	84.8 (1.8)	0 7576
How far did your mother get in school?	more Didn't graduate HS	15.9 (4.7)	15.3 (1.8)	0.7576
Are your current living arrangements the result	No	93.1 (2.6)	92.7 (1.0)	
of losing your home because your family cannot afford housing?	Yes	6.9 (2.6)	7.4 (1.0)	0.7406
How often in the past 12 months did you or	None	82.5 (4.2)	81.7 (1.7)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	17.6 (4.2)	18.3 (1.7)	0.7189
When was the last time you saw a dentist for a	In the past year	74.6 (5.3)	71.5 (2.6)	
check–up, exam, teeth cleaning, or other dental work?	More than a year ago	25.4 (5.3)	28.5 (2.6)	0.2464
Do you receive free or reduced price lunches at	No	56.4 (8.9)	51.6 (3.7)	0.2551
school?	Yes	43.6 (8.9)	48.4 (3.7)	0.2551
Putting them all together, what were your	Mostly A's or B's	64.2 (4.9)	66.5 (2.3)	0.3206
grades like last year?	Mostly Cs, Ds or Fs	35.8 (4.9)	33.5 (2.3)	0.5200
I feel safe at my school.	Yes!/Mostly & yes/def. true	77.5 (5.1)	76.8 (2.0)	0.7552
	no/mostly & NO/def not true	22.5 (5.1)	23.2 (2.0)	0.7552
In the last 30 days, how often have you been	None	79.8 (3.5)	79.5 (1.5)	0.8637
bullied?	At least 1 day	20.2 (3.5)	20.5 (1.5)	0.0037
During the past 30 days, on how many days did	None	89.4 (3.9)	91.8 (1.2)	
you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	10.6 (3.9)	8.2 (1.2)	0.1344
During the past 30 days, on how many days did	None	92.6 (3.2)	91.8 (1.1)	0.6056
you smoke cigarettes?	At least 1 day	7.4 (3.2)	8.2 (1.1)	0.0050
During the past 30 days, on how many days did	None	79.7 (4.9)	80.2 (1.7)	
you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	20.3 (4.9)	19.8 (1.7)	0.8034
During the past 30 days, on how many days did	None	80.2 (4.1)	81.5 (1.6)	1
you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	19.8 (4.1)	18.5 (1.6)	0.4686
Think back over the last 2 weeks. How many	None	84.1 (5.6)	88.0 (1.4)]
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	15.9 (5.6)	12.0 (1.4)	0.0751
	No	65.9 (13.8)	70.9 (3.5)	0.3863
Have you ever had sexual intercourse?	Yes	34.1 (13.8)	29.1 (3.5)	
Which of the following best describes you?	Straight (heterosexual)	78.4 (5.5)	80.2 (2.0)	0 4572
Which of the following best describes you?	Gay, lesbian, or not sure	21.7 (5.5)	19.8 (2.0)	0.4572

Table 6d: Comparison of Black/African American non-Hispanic student characteristics among 12th
graders in the state sample to census schools.

Question	Options	State Sample Percent (±Cl)	Census Percent (±Cl)	Difference p-value
William Income in control to an alternative set in a set of a	English	79.6 (4.1)	78.2 (3.1)	
What language is usually spoken at home?	Other language	20.4 (4.1)	21.8 (3.1)	0.5492
How far did your mother get in school?	Graduated HS or more	84.3 (4.7)	84.0 (2.1)	0.8946
	Didn't graduate HS	15.7 (4.7)	16.0 (2.1)	
Are your current living arrangements the result	No	88.8 (3.5)	91.2 (1.5)	
of losing your home because your family cannot afford housing?	Yes	11.3 (3.5)	8.8 (1.5)	0.1083
How often in the past 12 months did you or	None	81.1 (3.7)	79.7 (2.1)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	18.9 (3.7)	20.3 (2.1)	0.4870
When was the last time you saw a dentist for a	In the past year	69.8 (8.3)	66.8 (3.6)	
check–up, exam, teeth cleaning, or other dental work?	More than a year ago	30.3 (8.3)	33.3 (3.6)	0.4622
Do you receive free or reduced price lunches at	No	50.0 (12.5)	48.3 (4.2)	0 7720
school?	Yes	50.0 (12.5)	51.7 (4.2)	0.7729
Putting them all together, what were your	Mostly A's or B's	61.1 (7.7)	65.0 (2.6)	0.2463
grades like last year?	Mostly Cs, Ds or Fs	38.9 (7.7)	35.0 (2.6)	0.2463
I feel safe at my school.	Yes!/Mostly & yes/def. true	78.7 (4.6)	79.0 (2.0)	0.9108
Thee sale at my school.	no/mostly & NO/def not true	21.3 (4.6)	21.0 (2.0)	
In the last 30 days, how often have you been	None	83.0 (5.1)	84.4 (1.8)	0 5 400
bullied?	At least 1 day	17.0 (5.1)	15.6 (1.8)	0.5490
During the past 30 days, on how many days did	None	87.3 (4.0)	91.0 (1.5)	
you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	12.8 (4.0)	9.0 (1.5)	0.0257
During the past 30 days, on how many days did	None	86.6 (5.1)	88.3 (1.8)	0.4506
you smoke cigarettes?	At least 1 day	13.4 (5.1)	11.7 (1.8)	0.4500
During the past 30 days, on how many days did	None	67.6 (5.9)	71.1 (2.5)	
you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	32.4 (5.9)	28.9 (2.5)	0.1938
During the past 30 days, on how many days did	None	72.3 (7.0)	73.7 (2.7)	
you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	27.7 (7.0)	26.3 (2.7)	0.6681
Think back over the last 2 weeks. How many	None	82.6 (5.6)	83.5 (2.1)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	17.4 (5.6)	16.5 (2.1)	0.7297
	No	59.2 (9.8)	51.5 (4.1)	0.1113
Have you ever had sexual intercourse?	Yes	40.8 (9.8)	48.5 (4.1)	
Which of the following bost describes you?	Straight (heterosexual)	85.5 (4.5)	81.6 (2.1)	0.1102
Which of the following best describes you?	Gay, lesbian, or not sure	14.5 (4.5)	18.4 (2.1)	0.1102

Pacific Islander non-Hispanic Students

Census school respondents were more likely to report:

- Mother didn't graduate high school (grade 10)
- Bullied at school (grade 8)

Table 7a: Comparison of Pacific Islander non-Hispanic student characteristics among 6th graders in the
state sample to census schools.

Questien	Ontions	State Sample	Census	Difference
Question	Options	Percent (±Cl)	Percent (±CI)	p-value
What language is usually spoken at	English	87.2 (4.4)	84.8 (1.9)	0.2110
home?	Other language	12.8 (4.4)	15.2 (1.9)	0.3110
Putting them all together, what were	Mostly A's or B's	80.9 (4.3)	82.6 (1.3)	0.2000
your grades like last year?	Mostly Cs, Ds or Fs	19.1 (4.3)	17.5 (1.3)	0.3899
I feel safe at my school.	Yes!/Mostly & yes/def. true	91.1 (2.7)	90.7 (0.9)	0.7124
Theer sale at my school.	no/mostly & NO/def not true	8.9 (2.7)	9.3 (0.9)	0.7124
In the last 30 days, how often have	None	75.9 (4.0)	73.5 (1.5)	0.2418
you been bullied?	At least 1 day	24.2 (4.0)	26.5 (1.5)	0.2418
During the past 30 days, on how many	None	97.2 (1.3)	96.9 (0.5)	
days did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	2.8 (1.3)	3.1 (0.5)	0.6506
During the past 30 days, on how many	None	99.5 (0.6)	99.5 (0.2)	0 7000
days did you smoke cigarettes?	At least 1 day	0.5 (0.6)	0.5 (0.2)	0.7893
During the past 30 days, on how many	None	99.6 (0.5)	99.4 (0.2)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	0.4 (0.5)	0.6 (0.2)	0.4767
During the past 30 days, on how many	None	98.4 (1.0)	98.7 (0.4)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	1.6 (1.0)	1.3 (0.4)	0.3887
Think back over the last 2 weeks. How	None	98.7 (1.0)	98.6 (0.4)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	1.3 (1.0)	1.4 (0.4)	0.8594

Question	Options	State Sample Percent (±Cl)	Census Percent (±Cl)	Difference p-value
	English	78.4 (8.0)	77.7 (2.6)	
What language is usually spoken at home?	Other language	21.6 (8.0)	22.3 (2.6)	0.8553
How far did your mother get in school?	Graduated HS or more	86.7 (6.1)	87.0 (2.1)	0.9099
, .	Didn't graduate HS	13.3 (6.1)	13.0 (2.1)	
Are your current living arrangements the result	No	91.2 (4.2)	93.4 (1.3)	
of losing your home because your family cannot afford housing?	Yes	8.8 (4.2)	6.6 (1.3)	0.1874
How often in the past 12 months did you or	None	86.3 (5.3)	85.7 (1.7)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	13.7 (5.3)	14.3 (1.7)	0.8146
When was the last time you saw a dentist for a	In the past year	66.2 (10.2)	66.3 (3.3)	
check–up, exam, teeth cleaning, or other dental work?	More than a year ago	33.8 (10.2)	33.7 (3.3)	0.9871
Do you receive free or reduced price lunches at	No	48.8 (13.9)	55.5 (4.1)	0.2869
school?	Yes	51.2 (13.9)	44.5 (4.1)	0.2868
Putting them all together, what were your	Mostly A's or B's	74.1 (6.3)	74.9 (2.3)	0.7969
grades like last year?	Mostly Cs, Ds or Fs	25.9 (6.3)	25.1 (2.3)	
I feel safe at my school.	Yes!/Mostly & yes/def. true	83.8 (3.7)	83.1 (1.7)	0.6805
	no/mostly & NO/def not true	16.2 (3.7)	16.9 (1.7)	0.0805
In the last 30 days, how often have you been	None	80.7 (4.3)	74.0 (2.0)	0.0044
bullied?	At least 1 day	19.4 (4.3)	26.1 (2.0)	0.0044
During the past 30 days, on how many days did	None	95.6 (2.4)	95.4 (0.9)	
you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	4.5 (2.4)	4.6 (0.9)	0.9228
During the past 30 days, on how many days did	None	97.3 (1.5)	96.2 (0.9)	0.2256
you smoke cigarettes?	At least 1 day	2.7 (1.5)	3.8 (0.9)	0.2250
During the past 30 days, on how many days did	None	93.2 (3.0)	92.8 (1.1)	
you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	6.8 (3.0)	7.2 (1.1)	0.7704
During the past 30 days, on how many days did	None	93.2 (3.3)	92.6 (1.2)	
you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	6.8 (3.3)	7.4 (1.2)	0.6731
Think back over the last 2 weeks. How many	None	96.3 (2.1)	95.5 (0.9)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	3.7 (2.1)	4.6 (0.9)	0.4538
	No	87.9 (7.1)	88.8 (2.7)	0 7044
Have you ever had sexual intercourse?	Yes	12.1 (7.1)	11.2 (2.7)	0.7911
Which of the following boot describer on 2	Straight (heterosexual)	82.9 (7.4)	80.1 (2.4)	
Which of the following best describes you?	Gay, lesbian, or not sure	17.1 (7.4)	19.9 (2.4)	0.4431

Table 7b: Comparison of Pacific Islander non-Hispanic student characteristics among 8th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference
	Options	Percent (±Cl)	Percent (±CI)	p-value
What language is usually spoken at home?	English	78.1 (6.2)	72.0 (3.5)	0.0724
what language is usually spoken at nonie:	Other language	22.0 (6.2)	28.0 (3.5)	0.0724
	Graduated HS or	90.6 (4.4)	84.5 (2.4)	
How far did your mother get in school?	more	90.0 (4.4)	84.5 (2.4)	0.0247
	Didn't graduate HS	9.4 (4.4)	15.5 (2.4)	
Are your current living arrangements the result	No	89.3 (4.4)	90.5 (1.8)	
of losing your home because your family cannot afford housing?	Yes	10.7 (4.4)	9.5 (1.8)	0.5454
How often in the past 12 months did you or	None	82.7 (5.3)	80.2 (2.3)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	17.3 (5.3)	19.8 (2.3)	0.3244
When was the last time you saw a dentist for a	In the past year	75.7 (7.6)	68.8 (3.7)	
check–up, exam, teeth cleaning, or other dental work?	More than a year ago	24.3 (7.6)	31.2 (3.7)	0.0864
Do you receive free or reduced price lunches at	No	64.3 (9.5)	57.1 (4.7)	
school?	Yes	35.7 (9.5)	42.9 (4.7)	0.1396
Putting them all together, what were your	Mostly A's or B's	72.6 (5.4)	68.1 (2.9)	
grades like last year?	Mostly Cs, Ds or Fs	27.4 (5.4)	31.9 (2.9)	0.1091
	Yes!/Mostly & yes/def. true	77.2 (6.8)	77.9 (2.5)	0.8292
I feel safe at my school.	no/mostly & NO/def not true	22.8 (6.8)	22.1 (2.5)	
In the last 30 days, how often have you been	None	78.9 (5.6)	79.2 (2.1)	0.0000
bullied?	At least 1 day	21.1 (5.6)	20.8 (2.1)	0.9006
During the past 30 days, on how many days did	None	90.2 (5.0)	91.4 (1.5)	
you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	9.9 (5.0)	8.6 (1.5)	0.5506
During the past 30 days, on how many days did	None	92.8 (4.4)	90.2 (1.7)	0.2806
you smoke cigarettes?	At least 1 day	7.3 (4.4)	9.8 (1.7)	0.2896
During the past 30 days, on how many days did	None	79.8 (6.4)	81.0 (2.1)	
you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	20.2 (6.4)	19.1 (2.1)	0.6891
During the past 30 days, on how many days did	None	77.2 (6.9)	78.5 (2.3)	
you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	22.8 (6.9)	21.5 (2.3)	0.6843
Think back over the last 2 weeks. How many	None	84.2 (5.6)	87.5 (1.8)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	15.8 (5.6)	12.5 (1.8)	0.1482
	No	74.0 (10.2)	72.6 (4.0)	
Have you ever had sexual intercourse?	Yes	26.0 (10.2)	27.4 (4.0)	0.7639
Which of the following base describes we 2	Straight (heterosexual)	81.3 (5.9)	80.3 (2.9)	0.7368
Which of the following best describes you?	Gay, lesbian, or not sure	18.8 (5.9)	19.8 (2.9)	

Table 7c: Comparison of Pacific Islander non-Hispanic student characteristics among 10th graders in the state sample to census schools.

Question	Options	State Sample Percent (±CI)	Census Percent (±Cl)	Difference p-value
	English	76.7 (7.4)	72.8 (4.1)	
What language is usually spoken at home?	Other language	23.3 (7.4)	27.2 (4.1)	0.3261
How far did your mother get in school?	Graduated HS or more	81.3 (8.3)	83.7 (3.2)	0.5087
	Didn't graduate HS	18.8 (8.3)	16.3 (3.2)	
Are your current living arrangements the	No	90.7 (5.0)	91.6 (1.9)	
result of losing your home because your family cannot afford housing?	Yes	9.3 (5.0)	8.4 (1.9)	0.6878
How often in the past 12 months did you or	None	82.5 (7.1)	78.0 (2.8)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	17.5 (7.1)	22.0 (2.8)	0.2186
When was the last time you saw a dentist for	In the past year	64.5 (11.1)	63.3 (5.0)	
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	35.5 (11.1)	36.7 (5.0)	0.8256
Do you receive free or reduced price lunches	No	46.4 (10.8)	49.4 (5.7)	0.5700
at school?	Yes	53.6 (10.8)	50.6 (5.7)	0.5799
Putting them all together, what were your	Mostly A's or B's	64.4 (10.4)	62.9 (3.5)	0 75 70
grades like last year?	Mostly Cs, Ds or Fs	35.7 (10.4)	37.1 (3.5)	0.7572
	Yes!/Mostly & yes/def. true	80.3 (5.7)	80.7 (2.8)	0.0070
I feel safe at my school.	no/mostly & NO/def not true	19.7 (5.7)	19.3 (2.8)	0.8873
In the last 30 days, how often have you been	None	83.5 (7.4)	85.4 (2.6)	0 5500
bullied?	At least 1 day	16.5 (7.4)	14.6 (2.6)	0.5509
During the past 30 days, on how many days	None	94.2 (3.7)	92.6 (1.8)	
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	5.8 (3.7)	7.4 (1.8)	0.4311
During the past 30 days, on how many days	None	89.5 (5.7)	88.7 (2.4)	0 7750
did you smoke cigarettes?	At least 1 day	10.5 (5.7)	11.3 (2.4)	0.7759
During the past 30 days, on how many days	None	77.1 (7.7)	75.3 (3.0)	
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	23.0 (7.7)	24.7 (3.0)	0.6328
During the past 30 days, on how many days	None	75.0 (9.4)	71.0 (3.6)	
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	25.0 (9.4)	29.0 (3.6)	0.3802
Think back over the last 2 weeks. How many	None	87.1 (6.5)	82.8 (2.8)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	12.9 (6.5)	17.2 (2.8)	0.2159
	No	51.3 (14.0)	52.6 (5.1)	
Have you ever had sexual intercourse?	Yes	48.7 (14.0)	47.4 (5.1)	0.8478
Which of the following best describes were?	Straight (heterosexual)	78.3 (7.2)	81.7 (3.0)	0.2122
Which of the following best describes you?	Gay, lesbian, or not sure	21.7 (7.2)	18.3 (3.0)	0.3123

Table 7d: Comparison of Pacific Islander non-Hispanic student characteristics among 12th graders in the state sample to census schools.

Other Race non-Hispanic Students

Census school respondents were more likely to report:

• English not spoken at home (grade 6)

Census school respondents were less likely to report:

- Mother didn't graduate high school (grade 8)
- Substance use current marijuana use (grade 10) and current alcohol drinking (grade 10)

Table 8a: Comparison of other race non-Hispanic student characteristics among 6th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference
Question	Options	Percent (±CI)	Percent (±Cl)	p-value
What language is usually spoken at	English	83.5 (3.2)	80.0 (1.7)	0.0200
home?	Other language	16.5 (3.2)	20.0 (1.7)	0.0398
Putting them all together, what were	Mostly A's or B's	80.5 (2.5)	80.9 (0.9)	0 72 42
your grades like last year?	Mostly Cs, Ds or Fs	19.5 (2.5)	19.1 (0.9)	0.7343
	Yes!/Mostly & yes/def. true	88.3 (1.5)	88.0 (0.6)	0.7005
I feel safe at my school.	no/mostly & NO/def not true	11.8 (1.5)	12.0 (0.6)	0.7065
In the last 30 days, how often have	None	70.3 (2.5)	69.8 (0.9)	0.6718
you been bullied?	At least 1 day	29.7 (2.5)	30.2 (0.9)	0.0718
During the past 30 days, on how many	None	96.8 (0.7)	96.3 (0.3)	
days did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	3.2 (0.7)	3.7 (0.3)	0.2209
During the past 30 days, on how many	None	99.4 (0.3)	99.2 (0.2)	0 2022
days did you smoke cigarettes?	At least 1 day	0.6 (0.3)	0.8 (0.2)	0.3932
During the past 30 days, on how many	None	99.4 (0.4)	99.1 (0.2)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	0.6 (0.4)	1.0 (0.2)	0.1206
During the past 30 days, on how many	None	98.2 (0.5)	98.0 (0.2)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	1.8 (0.5)	2.0 (0.2)	0.6201
Think back over the last 2 weeks. How	None	98.3 (0.5)	98.2 (0.2)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	1.7 (0.5)	1.9 (0.2)	0.5969

Question	Options	State Sample Percent (±CI)	Census Percent (±Cl)	Difference p-value
	English	76.7 (5.6)	77.9 (1.9)	p-value
What language is usually spoken at home?	Other language	23.3 (5.6)	22.1 (1.9)	0.6522
	Graduated HS or	23.3 (3.0)	22.1 (1.5)	
How far did your mother get in school?	more	82.8 (4.0)	86.9 (1.3)	0.0139
	Didn't graduate HS	17.2 (4.0)	13.1 (1.3)	0.0105
Are your current living arrangements the result	No	91.9 (2.1)	93.2 (0.7)	
of losing your home because your family cannot afford housing?	Yes	8.1 (2.1)	6.8 (0.7)	0.1476
How often in the past 12 months did you or	None	86.0 (2.0)	87.2 (0.9)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	14.0 (2.0)	12.8 (0.9)	0.2185
When was the last time you saw a dentist for a	In the past year	67.4 (3.6)	69.0 (1.8)	
check–up, exam, teeth cleaning, or other dental work?	More than a year ago	32.6 (3.6)	31.0 (1.8)	0.3700
Do you receive free or reduced price lunches at	No	55.5 (8.4)	60.8 (2.7)	0.1644
school?	Yes	44.5 (8.4)	39.2 (2.7)	0.1644
Putting them all together, what were your	Mostly A's or B's	70.8 (3.4)	72.2 (1.5)	0.3923
grades like last year?	Mostly Cs, Ds or Fs	29.2 (3.4)	27.8 (1.5)	0.5925
I feel safe at my school.	Yes!/Mostly & yes/def. true	78.4 (2.4)	79.2 (1.2)	0.5138
	no/mostly & NO/def not true	21.6 (2.4)	20.8 (1.2)	0.5158
In the last 30 days, how often have you been	None	71.3 (2.8)	69.0 (1.2)	0.0929
bullied?	At least 1 day	28.7 (2.8)	31.0 (1.2)	0.0929
During the past 30 days, on how many days did	None	95.8 (1.5)	95.7 (0.6)	
you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	4.2 (1.5)	4.3 (0.6)	0.8598
During the past 30 days, on how many days did	None	95.8 (1.3)	96.3 (0.5)	0.3507
you smoke cigarettes?	At least 1 day	4.2 (1.3)	3.7 (0.5)	0.3307
During the past 30 days, on how many days did	None	93.1 (1.9)	93.7 (0.7)	_
you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	6.9 (1.9)	6.3 (0.7)	0.5430
During the past 30 days, on how many days did	None	93.5 (1.6)	92.6 (0.7)	
you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	6.5 (1.6)	7.4 (0.7)	0.3170
Think back over the last 2 weeks. How many	None	95.6 (1.6)	95.4 (0.6)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	4.4 (1.6)	4.6 (0.6)	0.7851
	No	89.9 (4.0)	90.0 (1.5)	0.0500
Have you ever had sexual intercourse?	Yes	10.1 (4.0)	10.0 (1.5)	0.9500
Which of the following best describes you?	Straight (heterosexual)	75.1 (3.8)	74.8 (1.5)	0.0040
Which of the following best describes you?	Gay, lesbian, or not sure	24.9 (3.8)	25.2 (1.5)	0.8942

Table 8b: Comparison of other race non-Hispanic student characteristics among 8th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference
	Options	Percent (±Cl)	Percent (±CI)	p-value
What language is usually spoken at home?	English	73.4 (5.4)	71.2 (2.7)	0.4235
What language is usually spoken at nome:	Other language	26.6 (5.4)	28.8 (2.7)	0.4235
	Graduated HS or	02 0 (2 C)	9E 0 (1 9)	
How far did your mother get in school?	more	83.8 (3.6)	85.0 (1.8)	0.4931
	Didn't graduate HS	16.2 (3.6)	15.0 (1.8)	
Are your current living arrangements the result	No	91.5 (2.2)	92.2 (1.0)	
of losing your home because your family cannot afford housing?	Yes	8.5 (2.2)	7.8 (1.0)	0.4680
How often in the past 12 months did you or	None	86.1 (2.7)	83.3 (1.3)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	13.9 (2.7)	16.7 (1.3)	0.0519
When was the last time you saw a dentist for a	In the past year	71.9 (5.9)	72.0 (2.5)	
check–up, exam, teeth cleaning, or other dental work?	More than a year ago	28.1 (5.9)	28.0 (2.5)	0.9644
Do you receive free or reduced price lunches at	No	60.7 (7.7)	60.4 (3.5)	
school?	Yes	39.3 (7.7)	39.6 (3.5)	0.9327
Putting them all together, what were your	Mostly A's or B's	68.2 (4.5)	69.1 (2.1)	
grades like last year?	Mostly Cs, Ds or Fs	31.8 (4.5)	30.9 (2.1)	0.6681
	Yes!/Mostly & yes/def. true	73.3 (5.2)	74.9 (1.7)	- 0.4813
I feel safe at my school.	no/mostly & NO/def not true	26.7 (5.2)	25.1 (1.7)	
In the last 30 days, how often have you been	None	75.2 (4.0)	73.0 (1.6)	0.2564
bullied?	At least 1 day	24.9 (4.0)	27.0 (1.6)	0.2304
During the past 30 days, on how many days did	None	92.1 (2.3)	91.5 (1.0)	
you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	8.0 (2.3)	8.5 (1.0)	0.6053
During the past 30 days, on how many days did	None	90.6 (2.9)	91.0 (1.2)	0.7732
you smoke cigarettes?	At least 1 day	9.4 (2.9)	9.0 (1.2)	0.7752
During the past 30 days, on how many days did	None	78.8 (4.2)	83.2 (1.5)	
you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	21.2 (4.2)	16.9 (1.5)	0.0128
During the past 30 days, on how many days did	None	77.3 (4.0)	81.0 (1.7)	
you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	22.7 (4.0)	19.0 (1.7)	0.0394
Think back over the last 2 weeks. How many	None	86.2 (3.4)	88.0 (1.4)	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	13.8 (3.4)	12.0 (1.4)	0.2357
	No	77.9 (6.2)	73.3 (3.1)	0.1497
Have you ever had sexual intercourse?	Yes	22.1 (6.2)	26.7 (3.1)	
Which of the following hast describer of 2	Straight (heterosexual)	74.2 (4.4)	75.5 (2.1)	0.5549
Which of the following best describes you?	Gay, lesbian, or not sure	25.8 (4.4)	24.5 (2.1)	

Table 8c: Comparison of other race non-Hispanic student characteristics among 10th graders in the state sample to census schools.

Table 8d: Comparison of other race non-Hispanic student characteristics among 12th graders in the
state sample to census schools.

Question	Options	State Sample Percent (±Cl)	Census Percent (±CI)	Difference p-value
	English	78.7 (5.4)	74.3 (2.9)	
What language is usually spoken at home?	Other language	21.3 (5.4)	25.7 (2.9)	0.1156
How far did your mother get in school?	Graduated HS or more	81.2 (6.5)	83.0 (2.6)	0.5331
	Didn't graduate HS	18.9 (6.5)	17.1 (2.6)	
Are your current living arrangements the	No	92.4 (3.7)	91.0 (1.6)	
result of losing your home because your family cannot afford housing?	Yes	7.6 (3.7)	9.0 (1.6)	0.4430
How often in the past 12 months did you or	None	81.0 (5.4)	81.9 (2.1)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	19.1 (5.4)	18.1 (2.1)	0.6888
When was the last time you saw a dentist for	In the past year	64.2 (9.1)	67.1 (3.8)	
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	35.8 (9.1)	32.9 (3.8)	0.4821
Do you receive free or reduced price lunches	No	66.4 (9.0)	61.0 (4.5)	0 2222
at school?	Yes	33.7 (9.0)	39.0 (4.5)	0.2322
Putting them all together, what were your	Mostly A's or B's	61.9 (6.3)	64.2 (2.7)	0.4470
grades like last year?	Mostly Cs, Ds or Fs	38.1 (6.3)	35.8 (2.7)	0.4178
I feel safe at my school.	Yes!/Mostly & yes/def. true	78.8 (5.1)	79.2 (2.3)	0.8712
	no/mostly & NO/def not true	21.2 (5.1)	20.9 (2.3)	
In the last 30 days, how often have you been	None	81.4 (4.9)	80.4 (2.2)	0.6757
bullied?	At least 1 day	18.6 (4.9)	19.6 (2.2)	
During the past 30 days, on how many days	None	90.2 (4.6)	90.2 (1.7)	
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	9.8 (4.6)	9.8 (1.7)	0.9949
During the past 30 days, on how many days	None	87.4 (3.8)	87.8 (1.8)	
did you smoke cigarettes?	At least 1 day	12.6 (3.8)	12.2 (1.8)	0.8041
During the past 30 days, on how many days	None	77.7 (5.4)	75.6 (2.4)	
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	22.3 (5.4)	24.4 (2.4)	0.4031
During the past 30 days, on how many days	None	73.3 (6.5)	72.4 (2.6)	0.7776
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	26.8 (6.5)	27.6 (2.6)	
Think back over the last 2 weeks. How many	None	82.9 (4.8)	82.8 (2.1)	0.9412
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	17.1 (4.8)	17.2 (2.1)	
	No	51.3 (12.5)	53.5 (4.8)	0.7000
Have you ever had sexual intercourse?	Yes	48.7 (12.5)	46.5 (4.8)	
Which of the following best describes you?	Straight (heterosexual)	72.3 (5.7)	74.2 (2.8)	- 0.4696
	Gay, lesbian, or not sure	27.7 (5.7)	25.8 (2.8)	

Multi-racial non-Hispanic Students

Census school respondents were more likely to report:

Census school respondents were less likely to report:

- Non-English spoken at home (grade 8)
- Mother didn't graduate high school (grade 8)
- Feeling unsafe at school (grade 8)
- Substance use current cigarette smoking (grade 10) and binge drinking (grade 10)

Table 9a: Comparison of multi-racial non-Hispanic student characteristics among 6th graders in the
state sample to census schools.

Question	Options	State Sample	Census	Difference
Question		Percent (±CI)	Percent (±CI)	p-value
What language is usually spoken at	English	91.7 (2.8)	89.6 (1.2)	0.1550
home?	Other language	8.3 (2.8)	10.4 (1.2)	0.1558
Putting them all together, what were	Mostly A's or B's	85.8 (2.9)	85.1 (1.0)	0.6170
your grades like last year?	Mostly Cs, Ds or Fs	14.2 (2.9)	14.9 (1.0)	0.6179
I feel safe at my school.	Yes!/Mostly & yes/def. true	90.2 (2.2)	89.9 (0.8)	0.7005
Theer sale at my school.	no/mostly & NO/def not true	9.8 (2.2)	10.1 (0.8)	0.7605
In the last 30 days, how often have	None	70.8 (3.2)	70.2 (1.3)	0.6566
you been bullied?	At least 1 day	29.2 (3.2)	29.9 (1.3)	0.0300
During the past 30 days, on how many	None	97.1 (1.0)	96.9 (0.4)	
days did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	2.9 (1.0)	3.1 (0.4)	0.6271
During the past 30 days, on how many	None	99.3 (0.5)	99.5 (0.2)	0.2460
days did you smoke cigarettes?	At least 1 day	0.7 (0.5)	0.5 (0.2)	0.2468
During the past 30 days, on how many	None	98.9 (0.6)	99.2 (0.2)	
days did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	1.1 (0.6)	0.9 (0.2)	0.3509
During the past 30 days, on how many	None	98.1 (0.8)	98.3 (0.3)	
days did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	1.9 (0.8)	1.7 (0.3)	0.6993
Think back over the last 2 weeks. How	None	98.6 (0.7)	98.4 (0.3)	
many times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least once	1.4 (0.7)	1.7 (0.3)	0.4870

Table 9b: Comparison of multi-racial non-Hispanic student characteristics among 8th graders in the
state sample to census schools.

Question	Options	State Sample Percent (±Cl)	Census Percent (±Cl)	Difference p-value
What language is usually speken at here?	English	86.6 (2.9)	89.4 (1.0)	
What language is usually spoken at home?	Other language	13.5 (2.9)	10.6 (1.0)	0.0201
How far did your mother get in school?	Graduated HS or more	85.9 (4.0)	90.1 (1.2)	0.0074
	Didn't graduate HS	14.1 (4.0)	9.9 (1.2)	
Are your current living arrangements the	No	92.7 (2.7)	93.2 (0.9)	
result of losing your home because your family cannot afford housing?	Yes	7.3 (2.7)	6.8 (0.9)	0.6792
How often in the past 12 months did you or	None	88.2 (2.9)	87.2 (1.2)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	11.8 (2.9)	12.8 (1.2)	0.5107
When was the last time you saw a dentist for	In the past year	74.9 (5.8)	76.8 (2.1)	
a check–up, exam, teeth cleaning, or other dental work?	More than a year ago	25.1 (5.8)	23.3 (2.1)	0.4945
Do you receive free or reduced price lunches	No	61.9 (9.6)	62.9 (3.1)	
at school?	Yes	38.1 (9.6)	37.1 (3.1)	0.8314
Putting them all together, what were your	Mostly A's or B's	75.3 (3.9)	78.5 (1.5)	
grades like last year?	Mostly Cs, Ds or Fs	24.7 (3.9)	21.5 (1.5)	0.0657
I feel safe at my school.	Yes!/Mostly & yes/def. true	77.2 (3.9)	81.6 (1.5)	0.0106
	no/mostly & NO/def not true	22.8 (3.9)	18.4 (1.5)	
In the last 30 days, how often have you been	None	70.2 (3.7)	69.9 (1.3)	
bullied?	At least 1 day	29.9 (4.3)	30.1 (2.0)	0.9040
During the past 30 days, on how many days	None	96.2 (1.5)	95.9 (0.6)	
did you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	3.8 (1.5)	4.1 (0.6)	0.7552
During the past 30 days, on how many days	None	97.3 (1.3)	96.6 (0.6)	
did you smoke cigarettes?	At least 1 day	2.7 (1.3)	3.4 (0.6)	0.3304
During the past 30 days, on how many days	None	92.0 (2.9)	93.1 (0.8)	
did you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	8.1 (2.9)	6.9 (0.8)	0.3300
During the past 30 days, on how many days	None	93.3 (2.1)	92.4 (0.8)	0.3652
did you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	6.7 (2.1)	7.6 (0.8)	
Think back over the last 2 weeks. How many	None	96.5 (1.5)	95.9 (0.6)	0.3931
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	3.5 (1.5)	4.1 (0.6)	
	No	93.0 (5.5)	90.9 (1.8)	0.4905
Have you ever had sexual intercourse?	Yes	7.0 (5.5)	9.1 (1.8)	
Which of the following best describes you?	Straight (heterosexual)	75.7 (4.4)	77.5 (2.0)	- 0.3965
	Gay, lesbian, or not sure	24.3 (4.4)	22.5 (2.0)	

Question	Options	State Sample	Census	Difference
	Options	Percent (±Cl)	Percent (±CI)	p-value
What language is usually spoken at home?	English	91.8 (2.7)	90.2 (1.2)	0.2168
	Other language	8.2 (2.7)	9.8 (1.2)	0.2100
How far did your mother get in school?	Graduated HS or	89.6 (2.4)	89.8 (1.3)	
	more	. ,		0.8787
	Didn't graduate HS	10.4 (2.4)	10.2 (1.3)	
Are your current living arrangements the result	No	94.2 (2.1)	92.8 (1.0)	
of losing your home because your family cannot afford housing?	Yes	5.8 (2.1)	7.2 (1.0)	0.2153
How often in the past 12 months did you or	None	84.7 (2.8)	85.0 (1.4)	
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	15.3 (2.8)	15.0 (1.4)	0.8409
When was the last time you saw a dentist for a	In the past year	80.1 (5.8)	80.0 (2.0)	
check–up, exam, teeth cleaning, or other dental work?	More than a year ago	19.9 (5.8)	20.1 (2.0)	0.9427
Do you receive free or reduced price lunches at	No	66.3 (7.9)	67.6 (3.4)	0.7400
school?	Yes	33.7 (7.9)	32.4 (3.4)	0.7192
Putting them all together, what were your	Mostly A's or B's	77.2 (4.3)	75.8 (1.9)	0.5000
grades like last year?	Mostly Cs, Ds or Fs	22.8 (4.3)	24.2 (1.9)	0.5009
I feel safe at my school.	Yes!/Mostly & yes/def. true	80.4 (4.4)	80.7 (1.7)	0.8824
	no/mostly & NO/def not true	19.6 (4.4)	19.3 (1.7)	
In the last 30 days, how often have you been	None	75.6 (3.4)	75.6 (1.6)	
bullied?	At least 1 day	24.4 (3.4)	24.4 (1.6)	0.9988
During the past 30 days, on how many days did	None	93.5 (2.0)	93.2 (1.0)	
you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	6.6 (2.0)	6.8 (1.0)	0.7897
During the past 30 days, on how many days did	None	91.5 (2.4)	93.5 (0.9)	0.0257
you smoke cigarettes?	At least 1 day	8.6 (2.4)	6.6 (0.9)	0.0357
During the past 30 days, on how many days did	None	80.9 (3.4)	82.7 (1.6)	
you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	19.1 (3.4)	17.3 (1.6)	0.2556
During the past 30 days, on how many days did	None	77.2 (4.3)	79.7 (1.7)	0.1777
you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	22.9 (4.3)	20.3 (1.7)	
Think back over the last 2 weeks. How many	None	86.5 (2.6)	90.0 (1.1)	0.0014
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	13.5 (2.6)	10.1 (1.1)	
	No	73.8 (4.9)	74.1 (2.8)	0.8833
Have you ever had sexual intercourse?	Yes	26.2 (4.9)	25.9 (2.8)	
	Straight (heterosexual)	76.7 (5.0)	76.1 (1.9)	0.8042
Which of the following best describes you?	Gay, lesbian, or not sure	23.3 (5.0)	23.9 (1.9)	

Table 9c: Comparison of multi-racial non-Hispanic student characteristics among 10th graders in the state sample to census schools.

Question	Options	State Sample	Census	Difference	
Question	Options	Percent (±CI)	Percent (±Cl)	p-value	
What language is usually spoken at home?	English	93.5 (2.7)	92.8 (1.2)	0.6000	
	Other language	6.5 (2.7)	7.2 (1.2)	0.0000	
How far did your mother get in school?	Graduated HS or	90.1 (3.1)	90.9 (1.5)		
	more		50.5 (1.5)	0.5780	
	Didn't graduate HS	9.9 (3.1)	9.1 (1.5)		
Are your current living arrangements the result	No	91.4 (2.9)	92.8 (1.1)		
of losing your home because your family cannot afford housing?	Yes	8.6 (2.9)	7.2 (1.1)	0.2761	
How often in the past 12 months did you or	None	82.1 (4.0)	82.7 (1.8)		
your family have to cut meal size or skip meals because there wasn't enough money for food?	At least once	17.9 (4.0)	17.3 (1.8)	0.7620	
When was the last time you saw a dentist for a	In the past year	72.5 (7.2)	74.1 (2.9)		
check–up, exam, teeth cleaning, or other dental work?	More than a year ago	27.5 (7.2)	25.9 (2.9)	0.6235	
Do you receive free or reduced price lunches at	No	71.9 (7.3)	65.4 (3.8)		
school?	Yes	28.1 (7.3)	34.6 (3.8)	0.0832	
Putting them all together, what were your	Mostly A's or B's	74.4 (4.5)	73.8 (2.3)	0.7605	
grades like last year?	Mostly Cs, Ds or Fs	25.6 (4.5)	26.3 (2.3)	0.7695	
I feel safe at my school.	Yes!/Mostly & yes/def. true	84.1 (2.9)	83.7 (1.7)	0.8083	
	no/mostly & NO/def not true	15.9 (2.9)	16.3 (1.7)		
In the last 30 days, how often have you been	None	84.0 (4.1)	82.4 (1.6)		
bullied?	At least 1 day	16.0 (4.1)	17.7 (1.6)	0.3961	
During the past 30 days, on how many days did	None	91.3 (3.1)	91.7 (1.2)		
you: Carry a weapon such as a gun, knife, or club on school property?	At least 1 day	8.7 (3.1)	8.3 (1.2)	0.7849	
During the past 30 days, on how many days did	None	89.3 (4.3)	90.1 (1.5)	0.6725	
you smoke cigarettes?	At least 1 day	10.7 (4.3)	9.9 (1.5)	0.6725	
During the past 30 days, on how many days did	None	71.8 (5.6)	73.1 (2.0)		
you: Use marijuana or hashish (weed, hash, pot)?	At least 1 day	28.2 (5.6)	26.9 (2.0)	0.5941	
During the past 30 days, on how many days did	None	67.8 (5.8)	67.5 (2.3)	0.8971	
you: Drink a glass, can or bottle of alcohol (beer, wine, wine coolers, hard liquor)?	At least 1 day	32.2 (5.8)	32.5 (2.3)		
Think back over the last 2 weeks. How many	None	84.5 (4.3)	83.6 (1.7)	0.6778	
times have you had five or more drinks in a row? (A drink is a glass of wine, a bottle of beer, a shot glass of liquor, or a mixed drink.)	At least 1 day	15.5 (4.3)	16.4 (1.7)		
	No	50.0 (8.6)	49.3 (3.8)		
Have you ever had sexual intercourse?	Yes	50.0 (8.6)	50.7 (3.8)	0.8701	
Which of the fellowing back dependence 2	Straight (heterosexual)	80.2 (4.3)	77.8 (2.2)	0.2758	
Which of the following best describes you?	Gay, lesbian, or not sure	19.8 (4.3)	22.2 (2.2)		

Table 9d: Comparison of multi-racial non-Hispanic student characteristics among 12th graders in the state sample to census schools.