The 2001 Vermont Youth Risk Behavior Survey

Statewide Report

How many Vermont teens drink alcohol or smoke cigarettes? Where do they get alcohol and cigarettes? How many use marijuana or cocaine? How many are sexually active, and of those, how many are using condoms? How many have been threatened at school? How many have contemplated suicide? Finding answers to these questions is vitally important. This information can put to rest unwarranted fears when the answers are positive; it can mobilize prevention and intervention efforts when the answers are negative; and it can influence the behavior of students by setting norms.

Every two years since 1985, the Department of Health Division of Alcohol and Drug Abuse Programs and the Department of Education Comprehensive School Health Programs have sponsored a survey of Vermont students. The Vermont Youth Risk Behavior Survey (YRBS) measures the prevalence of behaviors that contribute to the leading causes of death, disease, and injury among youth. The YRBS is part of a larger effort to help communities promote the "resiliency" of young people by reducing high risk behaviors and increasing healthy behaviors. The YRBS provides accurate information about Vermont students which enables us to:

- monitor trends in their health and risk behaviors
- compare Vermont students with a national sample of students
- plan, evaluate, and improve community and school programs that prevent health problems and promote healthy behaviors

In 2001, school staff administered the YRBS to 30,916 eighth to twelfth grade Vermont students in 141 schools representing 57 supervisory unions. For the purposes of this report, data are based on a representative sample of 9,337 Vermont high school and middle school students. Participation by both schools and individual students was completely voluntary. To protect student privacy, the questionnaire was anonymous. Therefore, it is impossible to identify an individual student's responses.

How to use the YRBS

The YRBS provides an important piece of the evaluation puzzle. It can help detect changes in risk behaviors over time. It can help identify differences among ages, grades, and genders. It can help focus primary prevention efforts on specific groups of teens, and can suggest whether or not school policies and community programs are having the intended effect on student behaviors.

Think of the YRBS as a tool for starting discussions, for educating the community, for planning and evaluating programs, and for comparing Vermont students with other students nationwide.

- Starting the Conversation: Use the YRBS to begin a conversation with teens about the personal choices they make or about the health of their community. Ask them if the results accurately reflect what they see happening around them. How do they explain the results? What ideas do they have about ways to promote healthy behaviors? From their perspective, what seems to be working and what isn't working?
- Increasing Awareness: The YRBS provides an opportunity to break through "denial" and to make community members aware of the risks that their young people face. It can also dispel myths and correct misinformation about the "average teenager". The YRBS can be used to accentuate the positive, and to celebrate the fact that many students are abstaining from behaviors that endanger their health and their ability to succeed.
- Planning and Evaluating Programs: The YRBS can serve as the basis of a community needs assessment. It can help identify strengths and weaknesses in your community, and can suggest strategies to address those weaknesses.
- Vermont Trends and National Comparisons: We have been able to track some information for over 10 years, because Vermont students have been participating in a student survey since 1985. Also, the Centers for Disease Control and Prevention conducts a biennial YRBS of a national sample of high school students. These results permit us to draw comparisons between Vermont and the nation.

A Word of Caution

The YRBS represents the most complete and most recent information available about risk behaviors among Vermont students. However, the YRBS has some limitations that you should keep in mind when interpreting the results.

- Data Quality: Several precautions were taken to ensure the reliability and validity of the results. First, the questionnaire has been carefully designed and thoroughly tested by Centers for Disease Control and Prevention. Second, the survey was anonymous to encourage students to be honest and forthright. Third, over 100 consistency checks were run on the data to exclude careless, invalid, or logically inconsistent answers. Fourth, the results are statistically adjusted or "weighted" so that the sample accurately represents all Vermont 8th to 12th graders. These precautions can reduce some sources of error, but not all. For example, some high risk students such as those who have dropped out of school are not represented in the results.
- Comparing Supervisory Unions to Each Other and to the State: Participating supervisory unions will receive individual reports summarizing their own results. It is natural to want to know how individual supervisory unions compare to the state overall or to other supervisory unions. We urge caution in making such comparisons because the statewide results are "weighted", whereas the supervisory union results are not. As a result, it is possible that apparent differences, especially small differences, are due to demographic characteristics, rather than to true differences in prevalence.
- What, not Why: The YRBS can indicate what students are doing. It can also suggest the groups of students (e.g., male vs female, 8th graders vs 12th graders) who are more likely to engage in these behaviors. However, the survey does not answer the most important question: why are they doing it?

A Special Thanks!

We are grateful to the principals and superintendents who chose to participate in the YRBS and to the teachers and school staff who administered the survey or in other ways supported this effort. We also wish to thank the Centers for Disease Control and Prevention, Division of Adolescent and School Health for sponsoring the statewide survey through a cooperative agreement with the Vermont Department of Education (Program Announcement #309) and Westat Survey Technical Assistance Project for processing and analyzing the data. Finally, we are grateful to the students who took the time to share with us a piece of their lives. This report is our way of thanking all of you. We hope that you find the survey report informative and useful.

The next YRBS is scheduled for 2003. We encourage schools' participation again, because we will be able to continue to monitor trends in students' health and risk behaviors, compare Vermont students with a national sample of students, and plan, evaluate, and improve communities programs designed to prevent health problems and promote healthy behaviors. If you have any questions or comments about the YRBS, please contact Kelly Hale LaMonda at the Division of Alcohol and Drug Abuse Programs, Vermont Department of Health (802-651-1557).

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Basic Information

Understanding This Report:

- Format: The results are presented as data tables, pie charts, bar graphs, and line graphs. In most cases, the data are organized by gender and grade. All results are expressed as percentages of students who endorsed the responses being reported. The percentages in some pie charts may not total 100 percent due to rounding.
- Trends: This report includes 14 to 16 year trends for several behaviors including drinking and driving, and use of alcohol, tobacco, and marijuana. The data for years 1985 to 1991 are not based on the YRBS, but on a Vermont student survey that focused on the use of alcohol and other drugs. The questions from the earlier survey were worded slightly differently from the questions on the YRBS: e.g., students were asked about their "monthly use", instead of their use during "the past 30 days". In order to adjust for the difference, the trend data for years 1985 to 1991 were estimated. Since the questions were asked both ways on the 1993 and 1995 surveys, we used a simple ratio of the percentages from comparable "monthly" and "30-day" questions to adjust the 1985 to 1991 data.
- Healthy Vermonters 2010: Vermont has established goals for promoting health and reducing risk behaviors in Healthy Vermonters 2010. Goals relevant to the behaviors surveyed by the YRBS are included in the report for your reference. For more information, see The Health Status of Vermonters and Healthy Vermonters 2010 Vermont's Blueprint for Improving Public Health, available from the Vermont Department of Health.

Remember to look at the positive side. In most cases the majority of adolescents are NOT engaging in risky behaviors. Although most of the charts are oriented to examining the prevalence of risk behaviors, please do not forget about the percentage of adolescents who are NOT engaging in the behaviors.

Basic Information

Description of the Sample

- Sampling: Twenty-one Vermont high schools of varying sizes, along with their 32 associated middle schools, were randomly selected for the state sample (1:3 systematic sample after sorting by enrollments). A survey of this size was required in order to have an error rate of +/- 5% at each of the five grade levels.
- Response Rates: The school response rate was 89 percent, and the student response rate was 78 percent. Therefore, the overall response rate was 69 percent (.89 x .78 = .69).
- **Weighting:** The results were "weighted" in order to compensate for differences between the sample and the population of all 8th to 12th grade students in Vermont. The weighting procedure ensures that the sample is representative of the population. This permits us to draw inferences about the entire student population based on the results of the sample.

Vermont Students Who Participated in the YRBS

				GEND	ER			
	8	9	10	11	12	F	M	ALL*
Number of students	2146	2082	1967	1717	1325	4645	4607	9337

^{*}NOTE: Some students did not indicate their grade or gender. Therefore, totals by grade and by gender do not equal the overall total.

✓ Injuries, Violence, and Safety

This section deals with personal safety and violence, and includes questions about physical fights, dating violence, weapons, vehicle safety, and suicide.

- **Physical Fighting:** Physical fighting often precedes fatal and nonfatal injuries.^{1, 2} During 1996-97, nearly 200,000 fights or physical attacks occurred at schools in the US.³ Nearly 60 percent of adolescents report at least one episode of dating violence,⁴ while 20 percent report they had experienced forced sex.⁵ Forced sex has been associated with suicidal ideation and attempts, ⁶ alcohol and drug use, ⁷ and increased risk of chronic diseases and somatic symptoms.⁸
- Weapons and Fear: During adolescence, homicide rates in the US increase substantially from 1.2 per 100,000 in youth aged 5 to 14 to 14.8 per 100,000 in youth aged 15 to 24. Homicide is the second leading cause of death among all youth aged 15 to 24. The immediate accessibility of a firearm or other lethal weapon is often a factor. Approximately nine out of 10 homicide victims in the United States are killed with a weapon. Weapon.
- Vehicle Safety Safety Belts and Bicycle Helmets: Safety belt use is estimated to reduce motor vehicle fatalities by 45 percent and serious injury by 50 percent. In 1997, 74 percent of adult Vermonters reported using their safety belt, up from 55 percent in 1993. Head injury is the leading cause of death in motorcycle and bicycle crashes. The risk of head injury for unhelmeted bicyclists is more than six and one-half times greater than for riders who wear helmets.
- Vehicle Safety Driving Under the Influence: Motor vehicle crash injuries are the leading cause of death among youth aged 15 to 24 in the US. For instance, 18 out of 53 deaths (34%) among 15 to 24 year olds in Vermont in 1999 were due to motor vehicle crashes. Approximately 30 percent of motor vehicle crashes involve alcohol. Alcohol-related crashes cause serious injury and permanent disability and rank as the leading cause of spinal cord injury among adolescents and young adults. Alcohol-related crashes cause serious injury and permanent disability and rank as the leading cause of spinal cord injury among adolescents and young adults.

✓ Injuries, Violence, and Safety (cont'd)

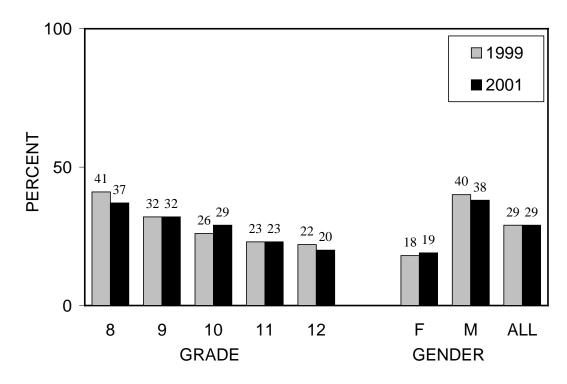
Suicide: Suicide is the third leading cause of death among US youth aged 15 to 24. The suicide rate for people aged 15 to 24 has tripled since 1950, and in 1998 was 11.1 per 100,000. The from 1990-1998, Vermont's suicide rate among 15 to 24 year olds was higher than the national average with a rate of 15.1 deaths per 100,000, compared to 12.7 deaths per 100,000 nationwide.

Related *Healthy Vermonters 2010* Goals:

- Increase the percentage of people who always use safety belts to at least 92 percent.
- Further reduce physical assaults by intimate partners to less than 3.6 per 1,000 people age 12 and older.
- Reduce alcohol-related motor vehicle deaths to less than 4 per 100,000.
- Reduce suicide attempts by adolescents to less than 1 percent.
- Reduce suicide deaths to less than 6 per 100,000 people.

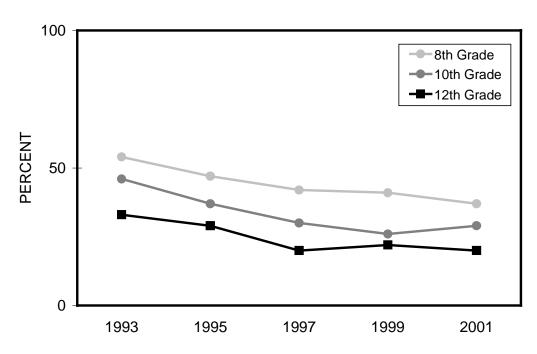
- Fighting is more common among young students. In 2001, 8th graders were almost twice as likely as 12th graders to have been in a physical fight during the past year (37% vs 20%). This 8th and 12th grade difference was similar in 1999 (41% vs 22%).
- Females fight less than males. Male students were twice as likely as female students to have been in a physical fight (38% vs 19%). This male and female difference was similar in 1999 (40% vs 18%).

Percent of students who were in a physical fight during the past 12 months



• Less fighting. Physical fighting has decreased across all grades in Vermont since 1993. For example, fighting dropped from 54 to 37 percent among 8th graders, 46 to 29 percent among 10th graders, and 33 to 20 percent among 12th graders.

Physical Fighting in Vermont 1993 to 2001 Percent of students who were in a physical fight during the past 12 months



- Fewer females are in serious fights. Female students were two to three times less likely than male students to be in a fight that resulted in an injury (2% vs 5%) and in a fight on school property (7% vs 21%). These figures are similar to the 1999 results.
- Fighting on school property is more common among younger students. Eighth graders were over two times more likely than 12th graders to fight on school property (19% vs 8%). Overall, 14 percent of Vermont students fought on school property, similar to the 1999 overall rate (16%).

PHYSICAL FIGHTING		GRADE				GENDER			.L
	8	9	10	11	12	F	M	2001	1999
Percent of students who, during the past 12 months, :									
Were in a physical fight and had to be treated by a doctor or nurse	4	4	4	3	2	2	5	3	4
Were in a physical fight on school property	19	17	14	12	8	7	21	14	16

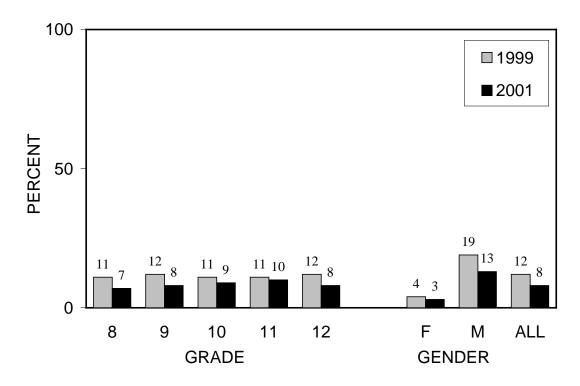
- Overall, 7 percent of students have been hit, slapped, or physically hurt by their boy/girlfriend during the past year. No significant difference was seen between female students and male students.
- Approximately one out of 10 students (9%) have been touched against their wishes sexually or forced to touch someone else sexually.
 Female students were more likely than male students to report being touched or forced to touch someone else (14% vs 4%)
- Overall, 5 percent of students have been forced to have sexual intercourse.

ABUSIVE BEHAVIOR		GI	RADE	i	(GENE	ER	ALL	
	8	9	10	11	12	F	M	2001	1999
Percent of students who's boy/girlfriend hit, slapped or physically hurt them during the past 12 months	6	6	7	7	9	6	8	7	8
Percent of students who have ever been:									
Touched against their wishes or forced to touch someone else	9	8	8	11	9	14	4	9	NA
Forced to have sexual intercourse	3	3	5	6	6	6	4	5	5

Weapons and Fear

- Less weapon carrying at school. Students reported carrying a weapon on school property less in 2001 (8%) than in 1999 (12%).
- Males carry weapons to school more than females. Male students were over four times more likely to carry a weapon on school property than female students (13% vs 3%). This pattern is similar to the 1999 results (19% vs 4%).

Percent of students who carried a weapon such as a gun, knife, or club <u>on school property</u> during the past 30 days



Weapons and Fear

- Overall, 4 percent of students did not go to school because they felt unsafe. No difference was seen between female and male students.
- Males are threatened with weapons at school more than females. Male students were twice as likely as female students to have been threatened with a weapon on school property (8% vs 4%).
- Younger students have their property stolen at school more than older students.
 Overall, 30 percent of 8th grade students compared to 21 percent of 12th students reported that someone stole or deliberately damaged their property on school property.

SAFETY, WEAPONS, A DAMAGE TO PROPERT		G	RAD	E		GEN	DER	ALL	
	8	9	10	11	12	F	М	2001	1999
Percent of students who:									
Did not go to school because they felt unsafe during the past 30 days	5	4	5	4	3	4	5	4	4
Were threatened or injured with a weapon on school property during the past 12 months	7	7	7	6	4	4	8	6	8
Said that someone had stolen or deliberately damaged their property on school property during the past 12 months	30	28	28	25	21	24	30	27	25

Vehicle Safety - Safety Belts

- Safety belt use is up.
 Overall, 79 percent of students reported always or almost always wearing their safety belt when riding in a car, compared to 77 percent in 1999, 75 percent in 1997, 72 percent in 1995, and 63 percent in 1993.
- Females wear safety belts more often than males.
 Four out of five (83%) female students wore their safety belts when riding in a car, compared to 75 percent of male students. The difference between females and males was similar in 1999 (83% vs 72%).

SAFETY BELT USE		G	RADI	=		GEN	IDER	Al	ALL	
	8	9	10	11	12	F	М	2001	1999	
Percent of students who wear a safety belt when riding in a car driven by someone else										
Always or almost always	79	76	79	80	80	83	75	79	77	
Sometimes	11	12	11	10	9	19	12	11	11	
Never or rarely	10	12	10	10	11	8	13	11	11	

■ Vehicle Safety - Safety Belts

- More than eight out of 10 of students buckle up when driving. Overall, 84 percent of students reported always or almost always wearing their safety belt when driving a car.
- Females buckle up more often than males. Nine out of 10 (90%) female students always or almost always wore their safety belt when driving a car, compared to 79 percent of male students. This difference was similar in 1999 (91% vs 77%).

SAFETY BELT USE	GRADE				GEI	NDER	A A	.LL	
	8	9	10	11	12	F	М	2001	1999
Percent of students who wear a safety belt when driving a car									
Always or almost always	64	80	90	87	84	90	79	84	83
Sometimes	9	6	4	4	6	4	6	5	6
Never or rarely	27	14	7	9	10	6	15	11	11

Vehicle Safety - Bicycle Helmets

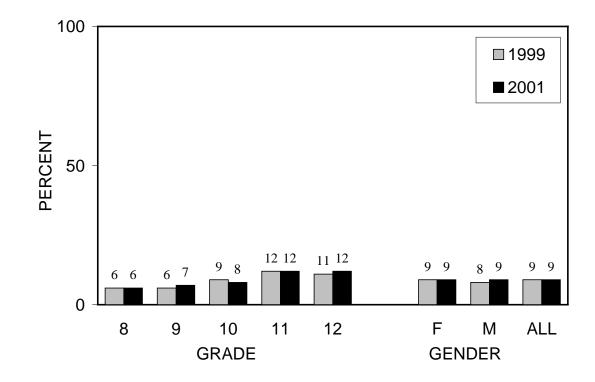
- Bicycle helmet use is up.
 Overall, 36 percent of students always or almost always wore helmets when riding bicycles, compared to 31 percent in 1999, 26 percent in 1997, 16 percent in 1995, and 11 percent in 1993.
- Younger students wear bicycle helmets more than older students. More 8th graders than 12th graders always or almost always wore helmets when riding bicycles (45% vs 30%). This difference was similar in 1999 (38% vs 25%).

BICYCLE HELMET USE	E	G	RAD	E		GEN	IDER	ALL	
	8	9	10	11	12	F	М	2001	1999
Frequency of helmet use (in percents) among students who rode a bicycle in the past 12 months									
Always or almost always	45	37	36	31	30	39	35	36	31
Sometimes	15	14	11	10	9	13	11	12	12
Never or rarely	40	49	53	59	61	48	54	52	57

■ Vehicle Safety - Crashes

- Overall, 9 percent of students were injured in a car crash during the past year.
- Older students are more likely than younger students to have been injured in a car crash. Twelfth graders were twice as likely as 8th graders to be injured in a car crash during the past year (12% vs 6%).

Percent of students who were injured in a car or other vehicle crash during the past 12 months



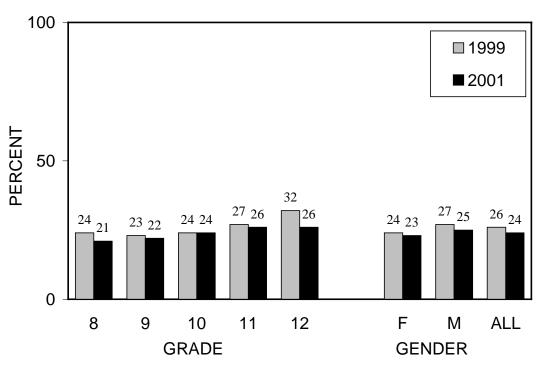
■ Vehicle Safety - Crashes

- The majority of drivers involved in car crashes are young. In half (50%) of those crashes where students were injured, the driver was 17 years old or younger.
- More males than females who are injured in a car crash are not wearing their safety belt at the time of the crash. More than half of male students (52%), compared to 34 percent of female students were not wearing their safety belt when injured in a car crash.

MOTOR VEHICLE									
CRASHES		GRADE				GEN	DER	ALL	
	8	9	10	11	12	F	М	2001	1999
Percent of students who were injured in a crash during the past 12 months, and:									
The driver was 17 years old or younger	34	40	50	62	54	47	54	50	48
They were driving	20	14	16	39	48	27	34	30	33
They were not wearing their safety belt	43	49	46	42	39	34	52	44	44

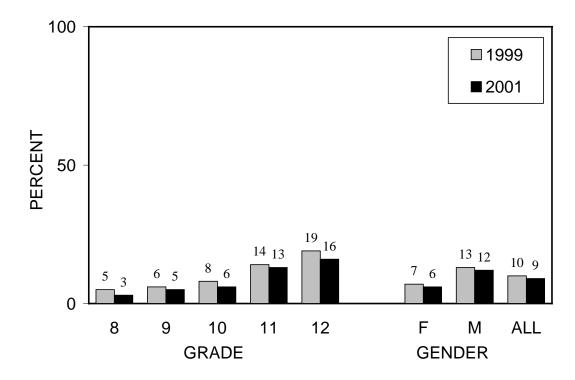
• Riding with drinking drivers has since 1995. One-quarter (24%) of students reported riding with a drinking driver during the past 30 days, compared to 26 percent in 1999, 31 percent in 1997, and 37 percent of students in 1995.

Percent of students who during the past 30 days rode in a car or other vehicle driven by someone who had been drinking alcohol



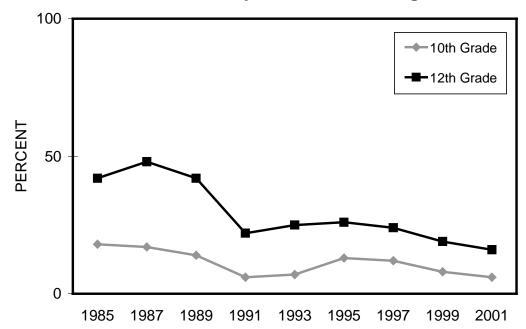
- Fewer females drink and drive than males. Female students were half as likely as male students to drive a car after drinking alcohol (6% vs 12%). This difference is similar to results in 1999 (7% vs 13%).
- Older students drink and drive more than younger students. Twelfth graders were five times more likely than 8th graders to drive when they had been drinking alcohol (16% vs 3%). This difference is similar to results in 1999 (19% vs 5%).

Percent of students who during the past 30 days drove a car or other vehicle when they had been drinking alcohol



• Drinking and driving has decreased since 1985. Among 12th graders, drinking and driving decreased from 42 percent in 1985 to 16 percent in 2001. This pattern was similar to, but less dramatic among 10th grade drivers (18% vs 6%).

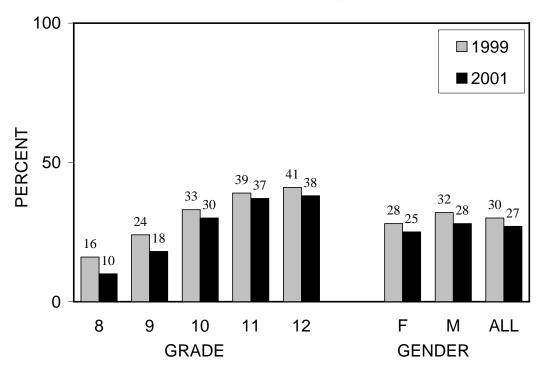
Drinking and Driving 1985 to 2001 Percent of students who during the past 30 days drove a car or other vehicle when they had been drinking alcohol *



^{*}The data provided for 1985 to 1993 are estimates based on earlier versions of the Vermont student survey (see page 1).

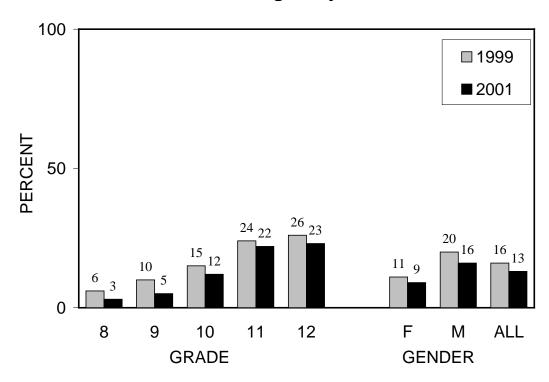
- Over one-quarter (27%) of students have ridden with someone who was smoking marijuana.
- Older students ride with someone who has been smoking marijuana more than younger students.
 Twelfth graders were more likely than 8th graders to have ridden in a car driven by someone smoking marijuana (38% vs 10%).

Percent of students who during the past 30 days rode in a car or other vehicle driven by someone who had been smoking marijuana



- Fewer female students drive when they have been smoking marijuana than male students. Females were almost half as likely as males to report driving when they had been smoking marijuana (9% vs 16%). This difference was similar in 1999 (11% vs 20%).
- Older students drive when they have been smoking marijuana more than younger students. Twelfth graders were over seven times more likely than 8th graders to drive when they had been smoking marijuana (23% vs 3%).

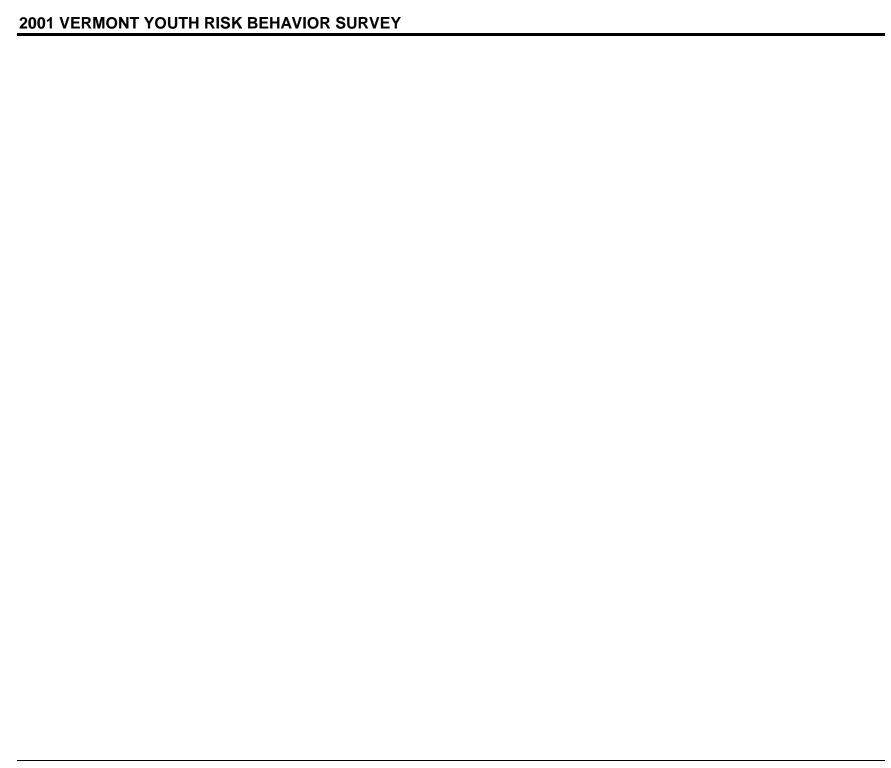
Percent of students who during the past 30 days drove a car or other vehicle when they had been smoking marijuana



Suicide

- Suicide plans are down.
 Overall, 13 percent of students made a suicide plan during the past 12 months, compared to 16 percent in 1999, 18 percent in 1997, and 22 percent in 1995.
- More females than males consider suicide. Female students were more likely than male students to make a suicide plan (17% vs 10%) and actually attempt suicide (10% vs 4%). These differences between females and males were similar to results from 1999.

SUICIDE	GRADE						NDER	A A	ALL	
	8	8 9 10 11 12				F	М	2001	1999	
Percent of students who during the past 12 months:										
Made a plan about how to attempt suicide	12	12	16	13	12	17	10	13	16	
Actually attempted suicide	7	8	7	6	6	10	4	7	7	
Attempted suicide and required medical treatment	2	2	2	2	2	3	2	2	2	



Alcohol, Tobacco, and Other Drugs

The questions in this section ask students about their use of alcohol, tobacco products, marijuana, inhalants, cocaine, steroids, heroin, hallucinogens, and methamphetamines. The questions ask the age at which students first used alcohol, cigarettes, marijuana, cocaine, and inhalants and how often they use them now.

- Alcohol Use is a major contributing factor in approximately one half of all homicides and suicides, ²³ and approximately 30 percent of motor vehicle crashes, ¹⁹ which are the leading causes of death and disability among young people in the United States. ²³ Approximately 100,000 American deaths per year are attributable to misuse of alcohol. ²⁴ Heavy drinking among youth has been linked to physical fights, property destruction, academic and job problems, and trouble with law enforcement authorities. ²⁵
- **Tobacco Use** is the single most preventable cause of death in the United States, ²⁶ accounting for more than one of every five deaths. ²⁷ Smoking causes heart disease; cancers of the lung, larynx, mouth, esophagus, and bladder; stroke; and chronic obstructive pulmonary disease. ²⁶ In addition, smoking is related to poor academic performance and the use of alcohol and other drugs. ²⁸ Between 1970 and 1986, the prevalence of snuff use in the US increased fifteenfold among men 17 to 19, and the prevalence of chewing tobacco use increased fourfold. ²⁶ Cigar smoking has become increasingly common among young people. In fact, the prevalence of cigar use in 1999 among US high school students was 25 percent among males and 10 percent among females. ²⁹ Cigar smoking has been associated with cancers of the oral cavity, larynx, esophagus, and lung and with chronic obstructive lung disease. ³⁰
- Marijuana Use has begun to rebound during the past few years following a decade of decline. Increased use has occurred across all ages but is especially true among 8th graders. Chronic, long-term use is associated with smoking-related respiratory damage, short-term memory loss, decreased motivation, and psychological dependence.³¹
- Inhalant Use is the deliberate inhalation or sniffing of common products found in homes and schools, like glue and cleaners, and some gases intended for medical or dental purposes to obtain a "high". Inhalant use can cause short-term memory loss, brain, lung, liver, and kidney damage, or even sudden death. Inhalants are legal, easy to get, inexpensive and difficult to detect, and experimentation typically begins in the preteen years.³²

✓ Alcohol, Tobacco, and Other Drugs (cont'd)

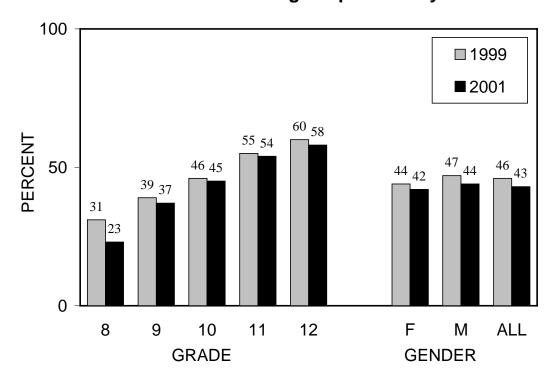
■ Other Drug Use is related to suicide, early unwanted pregnancy, school failure, delinquency, and transmission of sexually transmitted diseases (STD), including HIV infection.^{33, 34} One in four American adolescents is estimated to be at very high risk for the consequences of alcohol and other drug problems.²⁴ In spite of improvements in recent years, illicit drug use is greater among high school students and other young adults in the United States than in any other industrialized nation in the world.³⁵

Related Healthy Vermonters 2010 Goals:

- Reduce the percentage of youth who use alcohol prior to age 13 to 0 percent.
- Reduce the percentage of youth who engage in binge drinking in the past month to 3 percent or less.
- Reduce the percentage of youth who smoked cigarettes in the past month to 16 percent or less.
- Reduce the percentage of youth who used spit tobacco in the past month to 1 percent of less.
- Reduce the percentage of youth who smoked cigars, cigarillos, or little cigars in the past month to 8 percent of less.
- Reduce the percentage of youth who used marijuana in the past month to 0.7 percent or less.

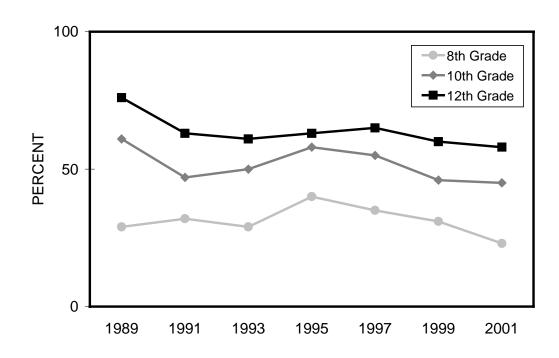
- The majority of students do not drink. Overall, 43 percent of students drank alcohol, compared to 46 percent of students in 1999, 50 percent in 1997 and 53 percent in 1995.
- Alcohol use increases across grades. More 12th graders than 8th graders drank alcohol (58% vs 23%).

Percent of students who consumed at least one drink of alcohol during the past 30 days



Less drinking. Alcohol use among 12th graders dropped from 76 percent in 1989 to 58 percent in 2001. Alcohol use among 10th graders dropped from 61 percent in 1989 to 45 percent in 2001. Alcohol use among 8th graders dropped from 40 percent in 1995 to 23 percent in 2001.

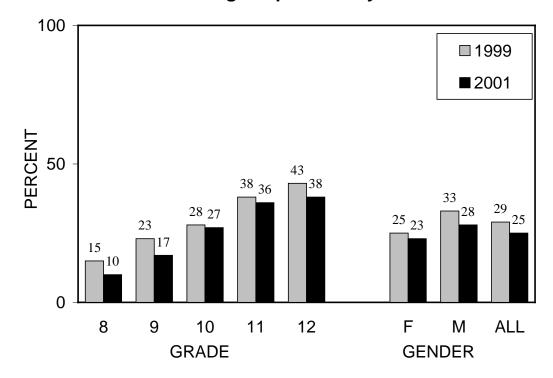
Alcohol Use in Vermont 1989 to 2001 Percent of students who drank during the past 30 days*



^{*}The data provided for 1989 to 1991 are estimates based on earlier versions of the Vermont student survey (see page 1).

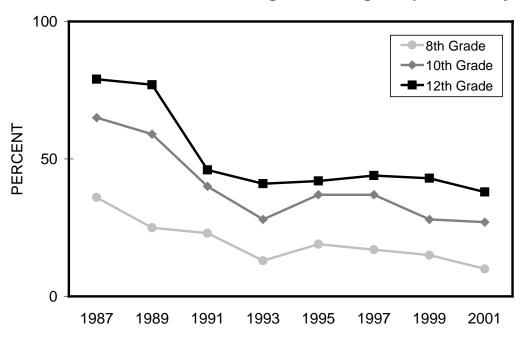
- One out of four students binge drink. Binge drinking is defined as having five or more drinks of alcohol within a couple of hours. Overall, 25 percent of students reported binge drinking during the past 30 days.
- Older students binge drink more than younger students. Twelfth graders were almost four times as likely as 8th graders to binge drink (38% vs 10%). The difference between 12th and 8th graders was similar in 1999 (43% vs 15%).

Percent of students who binged on alcohol (had five or more drinks of alcohol within a couple of hours) during the past 30 days



Binge drinking is decreasing. Among 8th graders binge drinking decreased from 36 percent in 1987 to 10 percent in 2001. Among 10th graders, binge drinking decreased from 65 percent in 1987 to 27 percent in 2001. Among 12th graders, binge drinking decreased from 79 percent in 1987 to 38 percent in 1999.

Alcohol Use in Vermont 1987 to 2001 Percent of students who "binged" during the past 30 days*



^{*}The data provided for 1987 to 1991 are estimates based on earlier versions of the Vermont student survey (see page 1).

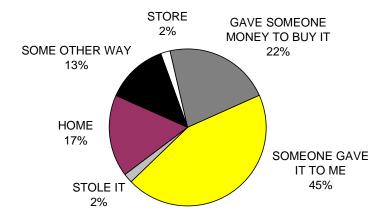
- Seven out of 10 students have had a drink of alcohol. In 2001, 69 percent of students had consumed alcohol, other than a few sips.
- Females start drinking alcohol later than males.
 Female students were less likely than male students to report consuming alcohol before age 13 (23% vs 30%).
 The difference between females and males was similar in 1999 (24% vs 34%).
- Fewer females drink frequently than males.
 Female students were almost half as likely as male students to have consumed alcohol on 10 or more days during the past month (4% vs 7%). The difference between females and males was similar in 1999 (5% vs 10%).

ALCOHOL USE		G	RAD	E		GEN	DER	AL	.L
	8	9	10	11	12	F	M	2001	1999
Percent of students who:									
Have ever had a drink of alcohol, other than a few sips	44	62	73	80	85	68	68	69	72
First consumed alcohol, other than a few sips, before 13 years of age	31	32	26	24	20	23	30	27	29
Drank alcohol on 3-9 days during the past 30	7	13	17	22	26	16	18	17	19
Drank alcohol on 10 or more days during the past 30 days	3	4	5	8	8	4	7	6	8
"Binged" on alcohol 3 or more days during the past 30	3	6	9	15	17	7	12	10	14
Drank alcohol <u>on</u> school property during the past 30	3	4	6	6	5	3	6	5	5

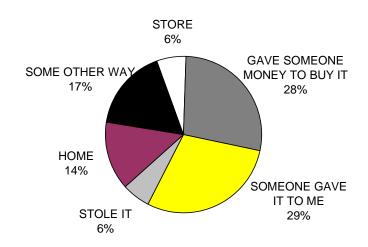
- Most students obtain alcohol by someone giving it to them or by giving someone money to buy it for them. Overall, 37 percent of the students who drank during the past 30 days reported someone gave them alcohol and 25 percent reported giving someone money to buy alcohol for them.
- Some students obtain alcohol from home. Among students who drank alcohol during the past 30 days, 17 percent of females and 14 percent of males got their alcohol from home.

Where students get their own alcohol (only among students who drank during the past 30 days)

FEMALES

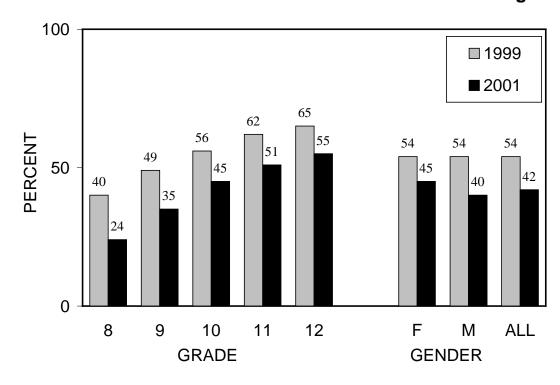


MALES



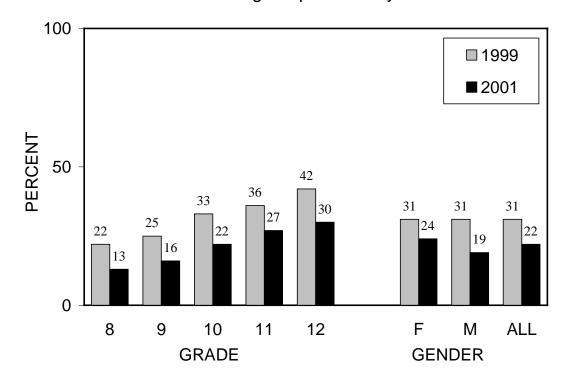
- The majority of students have never smoked a whole cigarette. In 2001, 42 percent of students had ever smoked a whole cigarette down from 54 percent in 1999.
- More older students than younger students have smoked. In 2001, 55 percent of 12th graders compared to 24 percent of 8th graders have ever smoked a whole cigarette. This difference was similar in 1999 (65% vs 40%).

Percent of students who have ever smoked a whole cigarette



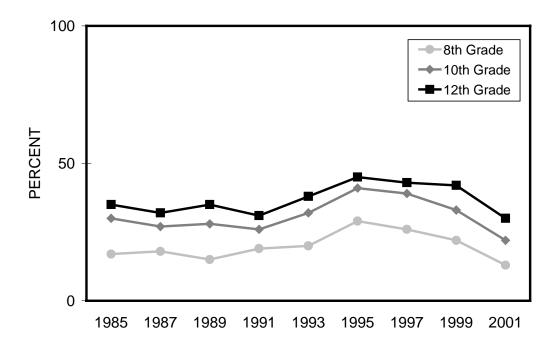
- Less than one-quarter of Vermont students smoke.
 Overall, 22 percent of students reported smoking at least once during the past 30 days, compared to 31 percent in 1999, 36 percent in 1997 and 38 percent in 1995.
- More older students than younger students smoke. In 2001, 30 percent of 12th graders smoked cigarettes during the past 30 days, compared to 13 percent of 8th graders.

Percent of students who smoked cigarettes on one or more days during the past 30 days



Cigarette smoking is decreasing. Smoking during the past 30 days increased from 1991 to 1995 and is now declining. This is especially true across 8th and 10th grades. From 1995 to 2001 cigarette use decreased from 41 to 22 percent among 10th graders and 29 to 13 percent among 8th graders.

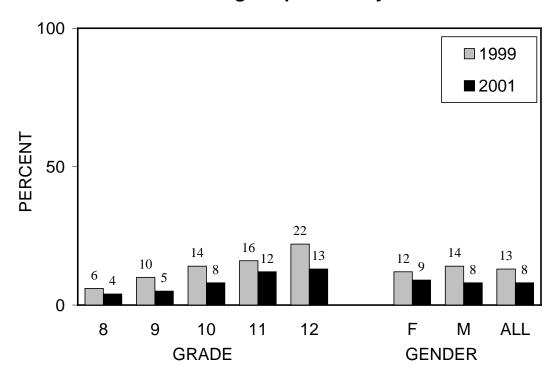
Cigarette Smoking in Vermont 1985 to 2001 Percent of students who smoked cigarettes during the last 30 days*



^{*}The data provided for 1985 to 1991 are estimates based on earlier versions of the Vermont student survey (see page 1).

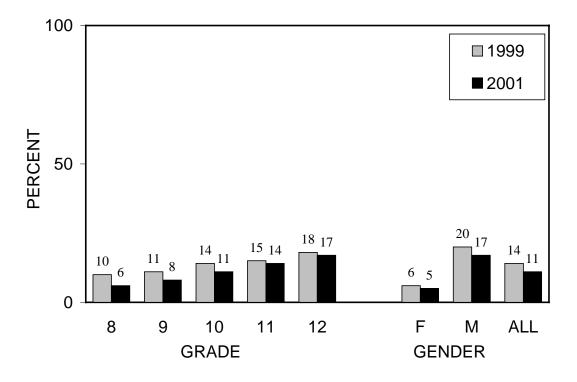
- Overall, 8 percent of Vermont students smoke daily. Daily smoking among students has decreased from 13 percent in 1999 to 8 percent in 2001.
- More older students than younger students are regular smokers. In 2001, 13 percent of 12th graders smoked every day, compared to only 4 percent of 8th graders.

Percent of students who smoked cigarettes every day during the past 30 days



- Overall, 11 percent of students smoked cigars during the past 30 days.
- More males smoke cigars than females. In 2001, 17 percent of males compared to 5 percent of females smoked cigars during the past 30 days.

Percent of students who smoked cigars, cigarillos, or little cigars on one or more days during the past 30 days



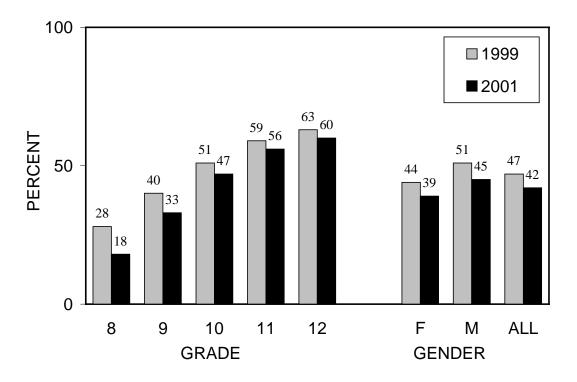
- One out of five (21%)
 Vermont students started smoking prior to age 13.
- Vermont students smoked less cigarettes on days smoked. In 2001, 3 percent of students smoked more than 10 cigarettes per day, compared to 6 percent in 1999.
- Overall, 13 percent of all students reported trying to quit smoking during the past 12 months.
- More males than females chew tobacco. Male students were four times more likely than female students to chew tobacco (8% vs 2%).

TOBACCO USE	GRADE						NDEF	R A	ALL
	8	9	10	11	12	F	M	2001	1999
Percent of students who:									
Smoked a whole cigarette prior to age 13	20	21	22	22	20	21	21	21	28
Smoked more than 10 cigarettes on days smoked during the past 30 days	2	2	3	4	6	3	4	3	6
Smoked more than a pack on days smoked during the past 30 days	1	1	1	1	1	1	2	1	2
Tried to quit smoking cigarettes during the past 12 months	9	11	14	15	18	16	11	13	NA
Used chewing tobacco or snuff during the past 30 days	3	4	5	5	6	2	8	5	8

■ Marijuana Use

 The majority of students have never tried marijuana. Overall, 42 percent of students tried marijuana, down slightly from 47 percent in 1999.

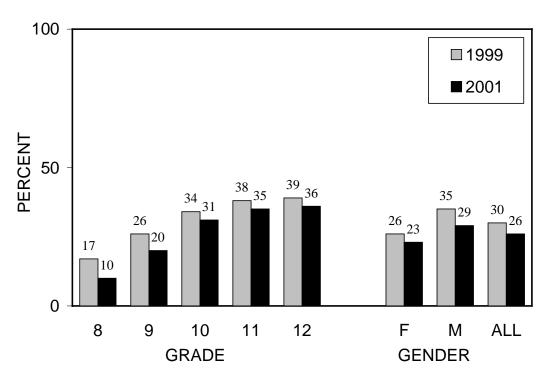
Percent of students who have ever tried marijuana



Marijuana Use

- Over one-quarter of Vermont students use marijuana.
 Overall, 26 percent of students used marijuana during the past 30 days
- More older students use marijuana than younger students. Thirty-six percent of 12th grade students used marijuana, compared to 10 percent of 8th grade students. The difference between 12th and 8th graders is similar to results in 1999 (39% vs 17%).

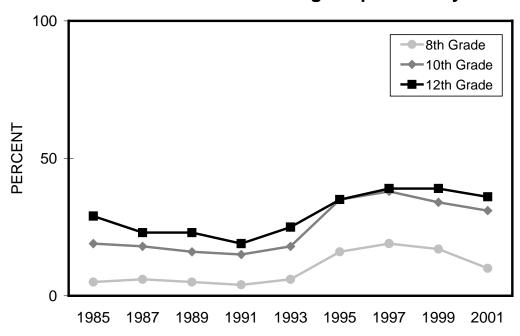
Percent of students who used marijuana one or more times during the past 30 days



Marijuana Use

- Marijuana use increased from 1991 to 1997 but has begun to decline. The percentage of students who used marijuana during the past 30 days was level or even slightly declining from 1985 to 1991. From 1991 to 1997, marijuana use dramatically increased among 12th graders (19% to 39%), 10th graders (15% to 38%), and 8th graders (4% to 19%).
- Marijuana use is starting to decrease especially among younger students. Among 8th graders use decreased from 19 percent in 1997 to 10 percent in 2001. Among 10th graders, use decreased from 38 percent in 1997 to 31 percent in 2001.

Marijuana Use 1985 to 2001 Percent of students who smoked marijuana one or more times during the past 30 days*



^{*}The data provided for 1985 to 1991 are estimates based on earlier versions of the Vermont student survey (see page 1).

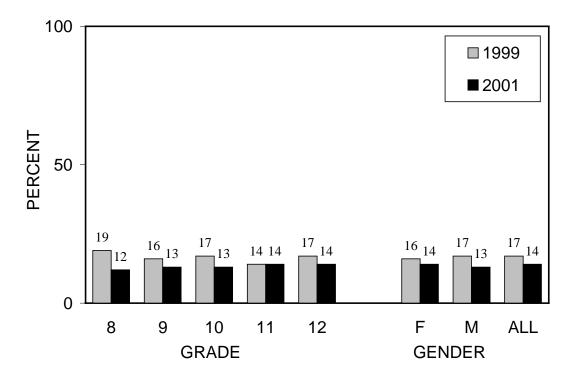
■ Marijuana Use

- Students start using marijuana earlier compared to 1993. Overall, 12 percent of students have smoked marijuana by age 13, compared to 15 percent in 1999, 13 percent in 1997, 10 percent in 1995 and 6 percent in 1993.
- Overall, 8 percent of students use marijuana on school property.

MARIJUANA USE	GRADE						NDER	A	LL
	8	9	10	11	12	F	M	2001	1999
Percent of students who:									
Tried marijuana before age 13	11	12	12	13	10	9	15	12	15
Used marijuana 3 to 9 times during the past 30 days	3	5	7	10	8	6	7	6	7
Used marijuana 10 or more times during the past 30 days	3	8	14	17	16	8	15	12	14
Used marijuana one or more times on school property	3	6	11	12	10	6	11	8	9

■ Inhalant Use

• Inhalant use is down since 1995. Overall, 14 percent of students tried inhalants, compared to 17 percent in 1999, 22 percent in 1997 and 27 percent in 1995. Percent of students who have ever used inhalants (e.g., sniffed glue, breathed the contents of aerosol spray cans, inhaled any paints or sprays to get high)

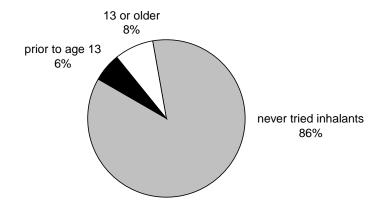


■ Inhalant Use

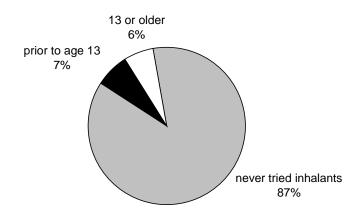
 About half of students who have used inhalants tried them prior to age 13.
 Overall, 6 percent of females and 7 percent of males used inhalants prior to age 13 compared to 8 percent of females and 6 percent of males trying inhalants at age 13 or older.

Age at which students first tried inhalants

FEMALES



MALES



Other Drug Use

 Overall, 7 percent of Vermont students have used cocaine. In 1999, 9 percent of students had used cocaine during their lifetime.

COCAINE USE		G	RAD	E		GEN	DER	ALL	
	8	9	10	11	12	F	M	2001	1999
Percent of students who have used cocaine:									
During their lifetime	4	5	7	9	10	6	8	7	9
Prior to age 13	3	2	1	2	1	2	2	2	2
During the past 30 days	3	4	3	5	4	3	5	4	5

Other Drug Use

- Overall, 3% of Vermont students have used heroin.
- Less students are offered drugs at school since 1997.
 In 2001, 26 percent of students were offered, sold, or given an illegal drug on school property, compared to 28 percent in 1999 and 35 percent in 1997.

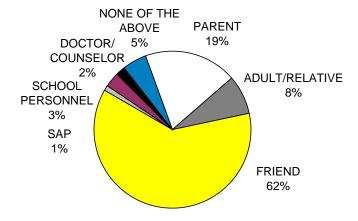
OTHER DRUG USE		G	RAD	E		GEN	IDER	ALL	
	8	9	10	11	12	F	М	2001	1999
Percent of students who during their lifetime have:									
Taken steroids without a prescription	4	5	5	6	4	4	5	5	5
Used heroin	3	3	3	4	3	2	4	3	4
Used heroin prior to age 13	2	1	1	2	1	1	2	1	NA
Used methamphetamines	4	5	7	9	10	6	8	7	10
Used hallucinogens	6	10	14	23	24	13	17	15	20
Used a needle to inject any illegal drug into their body	2	2	2	3	2	2	3	3	4
Percent of students who were offered, sold, or given an illegal drug on school property during the past 12 months	12	23	33	32	30	22	30	26	28

Other Drug Use

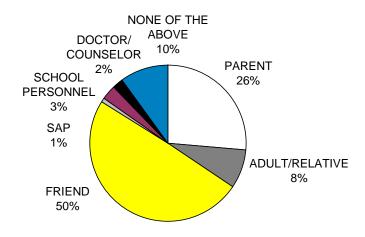
 Students are more likely to talk with friends than adults about a drug problem. Sixtytwo percent of female students and 50 percent of male students would most likely talk to a friend about a drug problem. Students would more likely talk to a parent than another adult about a drug problem.

If you had a problem with tobacco, alcohol, or other drugs, who would you be most likely to talk to about it?

FEMALES



MALES



Attitudes and Perceptions about Alcohol, Tobacco, and Other Drug Use

The questions in this section ask students how easy it is to get alcohol, tobacco, and other drugs, whether they think it is wrong for someone their age to use alcohol, tobacco, and other drugs, how wrong their parents and other adults in their community think it is for someone their age to use alcohol, tobacco, and other drugs, how harmful they think it is to use alcohol, tobacco, and other drugs.

- **Disapproval of alcohol, tobacco, and other drug use:** Peer disapproval of substance abuse is inversely related to adolescents' reports of use. For example, multiyear tracking of the results of the Monitoring the Future Survey indicates that the prevalence of marijuana use among youth declines as the percentage of youth expressing disapproval of marijuana increases; similarly, an increase in the prevalence of marijuana use among youth during the early 1990s coincided with an apparent decline in the percentage of parents and peer expressing strong disapproval.³⁶
- Perceived harmfulness of alcohol, tobacco, and other drug use: The perception of risk in using alcohol and other drugs is an important factor in decreasing use. Data have shown that as perception of harmfulness decreases, there is a tendency for use to increase.³⁶ Therefore, it is important for youth to be informed of the risks of using alcohol, tobacco, and other drugs.
- Perceived availability of alcohol, tobacco, and other drugs: The more available alcohol, tobacco, and other drugs are in a community, the higher the risk that young people will use them. Even when youth just think that substances are available, a higher rate of use is often observed.³⁷

■ Disapproval of Alcohol, Tobacco, and Other Drug Use

- Most students report that the adults in their neighborhood think it is wrong for kids their age to use alcohol, cigarettes, or marijuana.
- Younger students more than older students report that their parents think it is wrong for them to use alcohol, cigarettes, or marijuana. For example, 94 percent of 8th graders think that their parents think it is wrong for them to smoke cigarettes, compared to 77 percent of 12th graders.

DISAPPROVAL									
OF ATOD USE		G	RAD	E		GEN	DER	ALL	
	8	9	10	11	12	F	М	2001	1999
Percent of students who think the adults in their neighborhood think it is wrong or very wrong for kids their age to:									
Smoke cigarettes	88	86	78	72	64	80	76	78	73
Drink alcohol	87	81	74	70	64	79	72	75	77
Use marijuana	92	88	82	80	78	87	82	84	83
Percent of students who think their parents think it is wrong or very wrong for them to:									
Smoke cigarettes	94	91	86	84	77	87	86	86	83
Drink alcohol	88	82	77	68	59	78	73	75	76
Use marijuana	94	91	86	83	83	89	86	87	88

■ Disapproval of Alcohol, Tobacco, and Other Drug Use

More students think that it is wrong for kids their age to use LSD, cocaine, amphetamines or other illegal drugs than cigarettes, alcohol, or marijuana. For example, 84 percent of students think using LSD, cocaine, amphetamines, etc. is wrong compared to only 48 percent for alcohol, 65 percent for cigarettes, and 59 percent for marijuana

DISAPPROVAL OF ATOD USE		G	RAD	E	GENDER ALL				
	8	9	10	11	12	F	М	2001	1999
Percent of students who think it is wrong or very wrong for kids their age to:									
Smoke cigarettes	81	73	62	57	48	63	66	65	57
Drink alcohol	74	57	42	35	28	48	48	48	47
Use marijuana	83	68	54	46	44	63	56	59	58
Use LSD, cocaine, amphetamines, or another illegal drug	87	84	83	83	81	88	80	84	84

■ Perceived Harmfulness of Alcohol, Tobacco, and Other Drug Use

More students think there is great risk in smoking cigarettes than in using marijuana. For example, 66 percent of students think that there is great risk in harming themselves from smoking one or two packs per day compared to 46 percent of students who think that there is great risk in using marijuana regularly.

PERCEIVED HARMFULNESS		G	RAD	E		GEN	DER	ALL	
	8	9	10	11	12	F	М	2001	1999
Percent of students who think that there is <i>great risk</i> in harming themselves from:									
Smoking one or more packs of cigarettes/day	64	65	66	68	69	70	63	66	61
Drinking one or two alcoholic beverages nearly every day	28	26	26	28	27	32	22	27	29
Trying marijuana once or twice	32	23	16	13	12	20	18	19	18
Using marijuana regularly	67	51	40	36	34	53	40	46	44

■ Perceived Availability of Alcohol, Tobacco, and Other Drugs

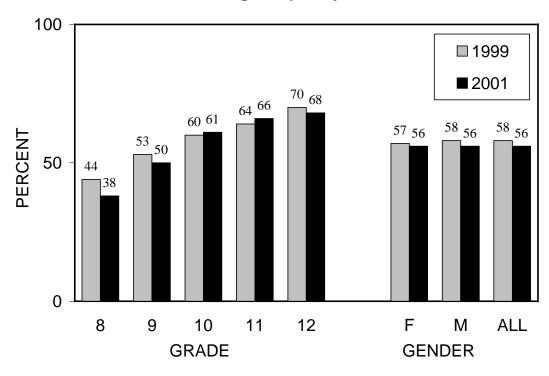
 Alcohol and cigarettes are easy to get. Approximately two-thirds of students report that alcohol (68%) and cigarettes (66%) are easy to get, compared to marijuana (58%) and cocaine, LSD, or amphetamines (27%).

PERCEIVED AVAILABILITY OF ATO	D	GRADE				GEN	IDER	ALL	
	8	9	10	11	12	F	M	2001	1999
Percent of students who report that it is easy or very easy to get:									
Cigarettes	38	55	72	79	89	66	66	66	74
Alcohol	45	61	74	78	81	68	67	68	70
Marijuana	26	49	69	74	76	56	61	58	62
Cocaine, LSD, or amphetamines	10	17	25	30	35	22	24	23	27

Perceived Availability of Alcohol, Tobacco, and Other Drugs

- Over half of students know an adult who uses illegal drugs. Overall, 56 percent of students reported knowing an adult who has used an illegal drug during the past year.
- More older students than younger students know an adult who uses illegal drugs. In 2001, 68 percent of 12th graders reported knowing an adult who has used an illegal drug during the past year, compared to 38 percent of 8th graders.

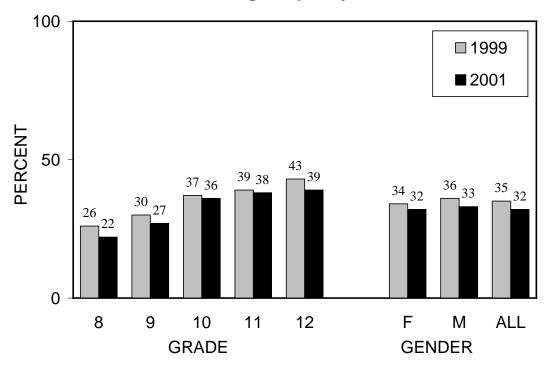
Percent of students who know an adult who has used marijuana, cocaine, or another illegal drugs during the past year.

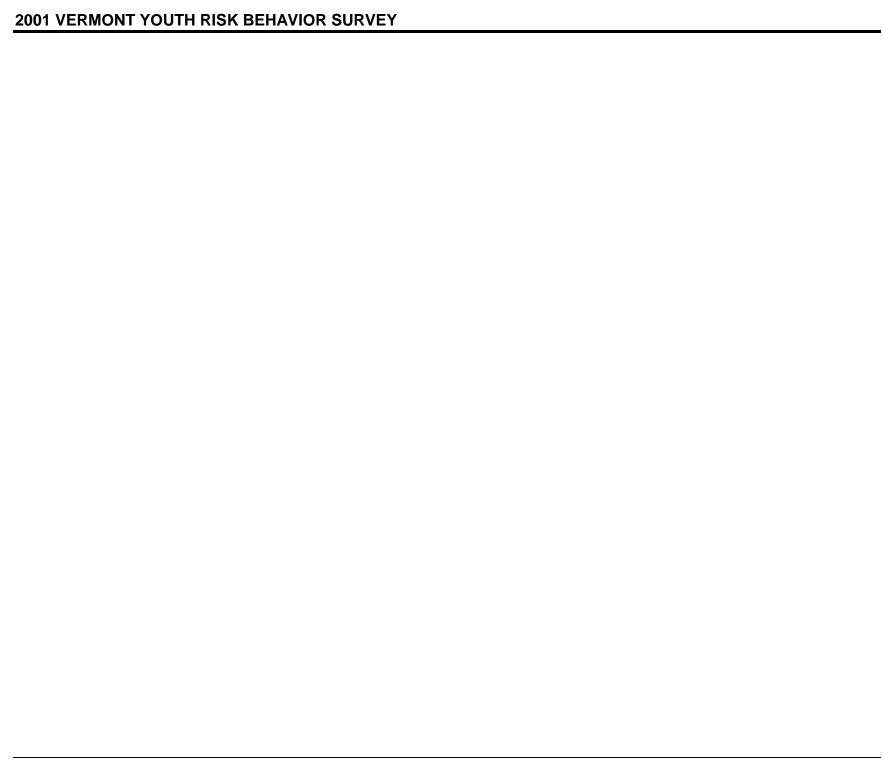


Perceived Availability of Alcohol, Tobacco, and Other Drugs

 About one-third of students know an adult who sells drugs. Overall, 32 percent of students reported knowing an adult who has sold drugs during the past year.

Percent of students who know an adult who has sold drugs during the past year.





The questions in this section ask students about sexual behaviors that contribute to HIV infection, other sexually transmitted diseases, and unintended pregnancies. More specifically, the questions measure whether they have had sexual intercourse, the age at which they first had sex, the frequency with which they have sex, with whom they have sex, alcohol and drug use related to sexual intercourse, whether they use contraception, and whether they talked about AIDs or HIV with a family member.

- Early sexual activity is associated with unwanted pregnancy and sexually transmitted diseases (STD), including HIV infection, and negative effects on social and psychological development.³⁸ Number of sexual partners and age at first intercourse are associated with STD. Alcohol and drug use may serve as predisposing factors for initiation of sexual activity and unprotected sexual intercourse.³⁹ Of the 12 million new cases of STD per year in the United States, 25 percent are among teens.⁴⁰ STD may result in infertility and facilitation of HIV transmission and may have an adverse effect on pregnancy outcome and maternal and child health.³⁸
- **AIDS** is the ninth leading cause of death for youth aged 15 to 25 in the United States. It is estimated that 25 percent of all new cases of HIV each year occur in people aged 13 to 21. While heterosexual transmission was once uncommon, recent trends indicate that growing numbers of individuals are at risk of contracting HIV in this way. Many people, especially adolescents, do not have the knowledge, awareness, and skills necessary to prevent their becoming infected. Besides abstinence, condom use is currently the most effective means of preventing sexual transmission of HIV.
 - In Vermont, 406 residents were diagnosed as having AIDS as of March 31, 2001.⁴¹ Many more Vermonters are at risk of acquiring HIV infection through unprotected sex with multiple partners or intravenous drug use. No area of the state remains unaffected.
- **Teen Pregnancy:** Approximately one million teenage girls in the United States become pregnant each year and about half of them give birth. One-third of all unintended pregnancies occur among teenagers, and 75 percent of teenage pregnancies occur among adolescents who are not using contraception. In 1999, the teen pregnancy rate in Vermont was 21.0 pregnancies per 1,000 girls age 15 to 17, which has dropped since 1991 (37.8 pregnancies per 1,000).

✓ Sexual Behavior (cont'd)

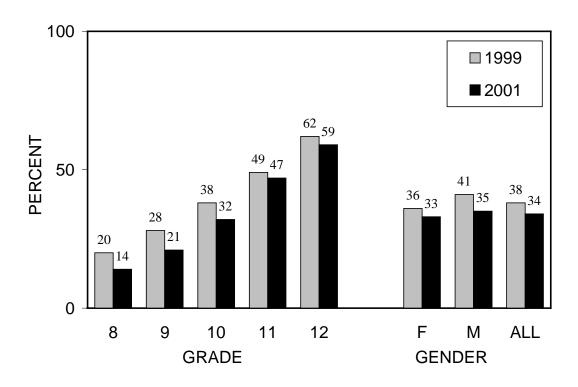
■ **Gay and Lesbian Youth:** Although many lesbian, gay, and bisexual adolescents lead happy and healthy lives, others face tremendous challenges to growing up physically and mentally healthy. Compared to heterosexual youth, lesbian, gay, and bisexual young people are at higher risk for depression, alcohol and other drug use, suicide, HIV infection, and other sexually transmitted diseases. 45

Related *Healthy Vermonters 2010* Goals:

- Increase the percentage of adolescents who abstain from sexual intercourse or use condoms if currently sexually active.
- Reduce HIV infection among adolescents and adults.
- Further reduce the percentage of people ages 15-24 with Chlamydia trachomatis infection.

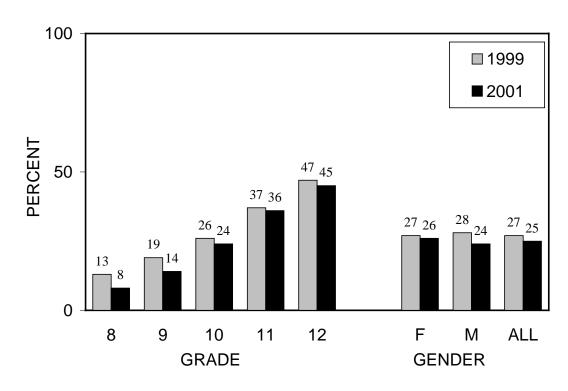
 About one-third of students have had sex. In 2001, 34 percent of students reported having had sexual intercourse.

Percent of students who have ever had sexual intercourse



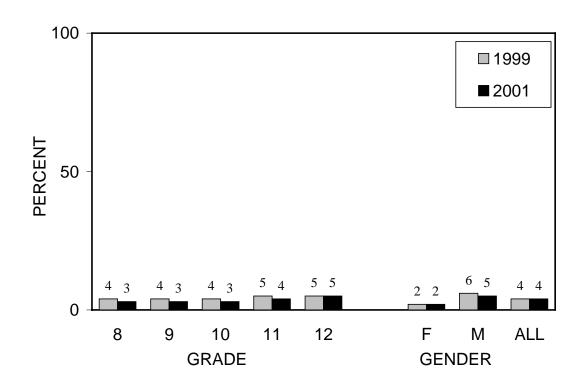
- One out of four Vermont students are sexually active. Overall, 25 percent of students reported having had sex during the past 3 months.
- More older students than younger students are sexually active. In 2001, 45 percent of 12th graders had sex during the past 3 months, compared to 8 percent of 8th graders.

Percent of students who have had sexual intercourse during the past 3 months



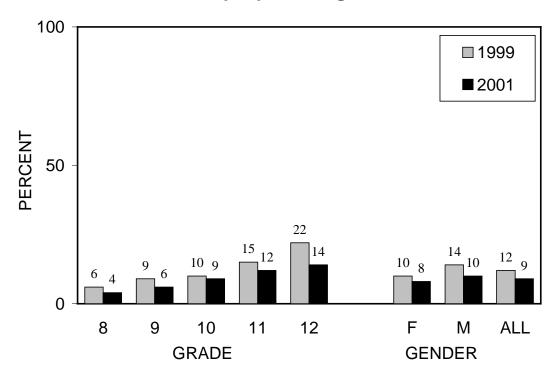
 Overall, 4 percent of Vermont students have had sexual intercourse with three or more people during the past 3 months.

Percent of students who have had sexual intercourse 3 or more people during the past 3 months



 Overall, 9 percent of students have had sexual intercourse with four or more people in their lifetime.

Percent of students who have had sexual intercourse with four or more people during their lifetime



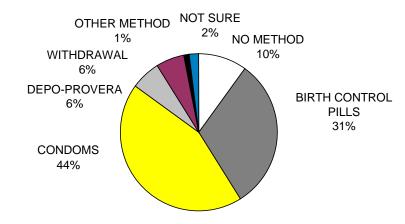
- Males have sex earlier than females. Males were nearly two times as likely as females to have had sex prior to age 13 (7% vs 4%).
- Over one-quarter (27%) of sexually active students use alcohol or drugs prior to sex.
- More than six out of 10 sexually active students use condoms. Overall, 63 percent of sexually active students used a condom during their most recent sexual experience, similar to 1999 (63%).

SEXUAL BEHAVIOR	GRADE						IDER	ALL	
	8	9	10	11	12	F	М	2001	1999
Percent of students who:									
First had sexual intercourse before age 13	8	6	4	5	3	4	7	6	8
Used drugs or alcohol before their most recent sexual experience*	28	31	28	27	24	23	31	27	31
Used a condom during their most recent sexual experience*	66	70	70	63	57	59	68	63	62
Have been pregnant or have impregnated someone	2	2	2	3	4	3	2	3	4

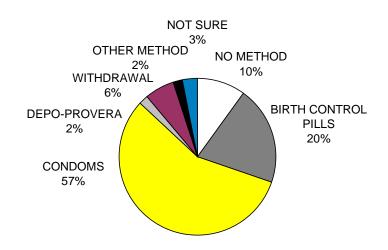
^{*}Includes only students who said that they have had sexual intercourse

- Condoms are the most commonly used contraceptive. Overall, 50 percent of students used condoms to prevent pregnancy the last time they had sex.
- Many students do not use any method to prevent pregnancy. Overall, 10 percent of students did not use any method to prevent pregnancy the last time they had sex, and 3 percent were not sure what method was used.

What method did you or your partner use to prevent pregnancy the last time you had sexual intercourse? (only among those students who have ever had sex) FEMALES



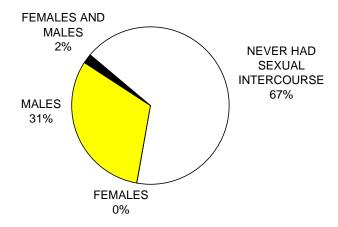
MALES



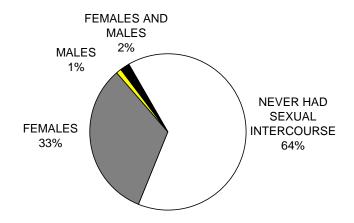
 Overall, 3 percent of students have engaged in same sex sexual intercourse.

The persons with whom you have had sexual intercourse are:

FEMALES



MALES



- More females than males talk with their parents about HIV infection. Fifty-nine percent of female students, compared to 50 percent of male students have talked with their parents about HIV or AIDS.
- Overall, 13 percent of students report that they have done something to put themselves at risk for getting HIV infection.

HIV EDUCATION	GRADE						NDE	₹	ALL	
	8	9	10	11	12	F	М	2001	1999	
Percent of students who:										
Have talked with parents or other adults in their family about HIV/AIDS	51	52	54	57	58	59	50	54	59	
Think they have ever done anything to put themselves at risk for getting HIV or AIDS	8	10	13	16	18	13	13	13	NA	

✓ Body Weight and Nutrition

This section asks students their height and weight, how they feel about their weight and what, if anything, they are doing to control their weight. The questions also inquire about how often students eat fruits and vegetables and drink milk.

The prevalence of **overweight** among adolescents more than doubled from 5 percent in the late 1970s to 11 percent between 1988 and 1994 the United States.⁴⁶ Overweight and obesity acquired during childhood or adolescence may persist into adulthood, increasing later risk for chronic conditions such as coronary heart disease, high blood pressure, some types of cancer, gall bladder disease, and osteoarthritis of the weight-bearing joints.⁴⁷ Children and adolescents often experience social and psychological stress related to obesity.⁴⁸

Obesity in adolescence is associated with hyperlipidemia, hypertension, abnormal glucose tolerance, and adverse psychological and social consequences.⁴⁹ Overemphasis on thinness during adolescence may contribute to eating disorders such as anorexia nervosa and bulimia.^{50,51} Studies have shown high rates of body dissatisfaction and dieting among adolescent females, with many engaging in unhealthy weight control behaviors, such as fasting and self-induced vomiting.⁵²⁻⁵⁵

Nutrition: Fruits and vegetables are good sources of complex carbohydrates, vitamins, minerals, and other substances that are important for good health. Dietary patterns with higher intakes of fruits and vegetables are associated with a variety of health benefits, including a decreased risk for some types of cancer. Only 44 percent of male adolescents and 27 percent of female adolescents in the US meet the minimum average daily goal of at least five servings of vegetables and fruits set by the Dietary Guidelines for Americans. Milk is by far the largest single source of calcium for adolescents, but it is estimated that about half of adolescent of males and more than 80 percent of adolescent females do not meet dietary recommendations for calcium intake. Calcium is essential for the formation and maintenance of bones and teeth; low calcium intake during the first two to three decades of life is an important risk factor in the development of osteoporosis.

/

Body Weight and Nutrition

Related *Healthy Vermonters 2010* Goals:

- Reduce the percentage of youth who are obese or overweight.
- Increase the percentage of people who eat at least two daily servings of fruit.
- Increase the percentage of people who eat at least three daily servings of vegetables.

- Slightly more younger students than older students are at risk for being overweight. In 2001, 16 percent of 8th graders were between the 85th and 95th body mass index percentile, compared to 11 percent of 12th graders.
- Overall, 10 percent of students are overweight.

BODY WEIGHT	GRADE						NDEF	R .	ALL	
	8	9	10	11	12	F	М	2001	1999	
Percent of students who are at risk for being overweight (85 th Body Mass Index Percentile*)	16	14	13	12	11	12	14	13	15	
Percent of students who are overweight (95 th Body Mass Index Percentile*)	12	10	11	9	9	5	14	10	8	

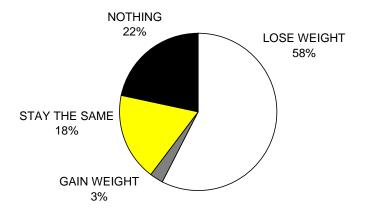
^{*}Body mass index is calculated as weight in kilograms divided by the square of the height in meters.

More females than males think they are overweight and are trying to lose weight. In 2001, 36 percent of female students described themselves as overweight, compared to 24 percent of male students. The difference between females and males was similar in 1999 (39% vs 23%). In addition, 58 percent of female students are trying to lose weight, compared to only 26 percent of male students. This difference was similar in 1999 (61% vs 25%).

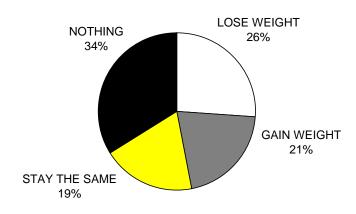
BODY WEIGHT DESCRIPTION		G	RAD	E		GEN	IDER	ALL	
	8	9	10	11	12	F	М	2001	1999
Percent of students who describe themselves as:									
Underweight	16	16	14	14	15	11	19	15	16
About the right weight	54	56	54	56	54	53	57	55	54
Overweight	30	28	31	30	31	36	24	30	30
Percent of students who are:									
Trying to lose weight	41	41	43	41	40	58	26	41	42
Trying to gain weight	9	11	12	14	14	3	21	12	13
Trying to stay the same	19	20	18	17	18	18	19	18	17
Doing nothing about their weight	30	28	27	28	29	22	34	28	27

 More males than females are trying to gain weight.
 Male students were seven times more likely than female students to be trying to gain weight (21% vs 3%).
 Similarly, 23 percent of male students in 1999 were trying to gain weight, compared to 3 percent of female students.

What are students trying to do about their weight? FEMALES

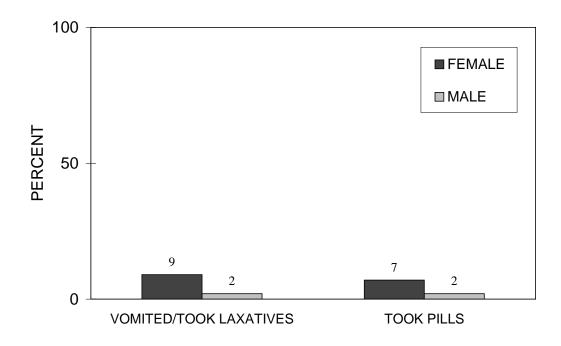


MALES



• More females than males used unhealthy methods to try to control their weight. Female students were more likely than male students to have vomited or taken laxatives (9% vs 2%) and taken diet pills (7% vs 2%) to try and control their weight.

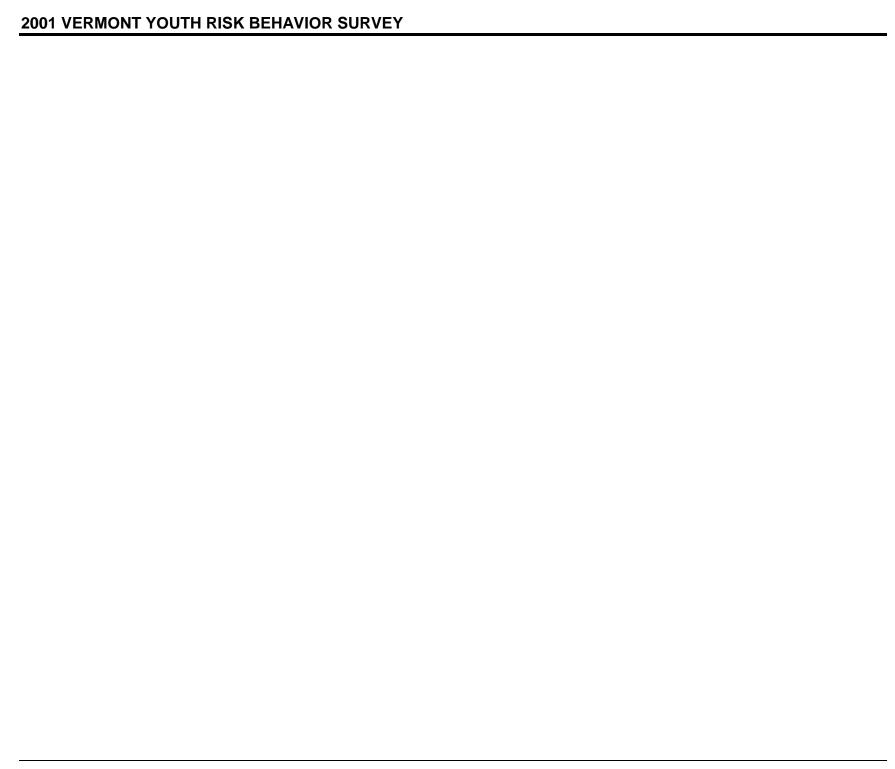
What females and males did during the past 30 days to control their weight



Nutrition

- Overall, 41 percent of students eat two or more servings of fruit or fruit juice daily.
- Overall, 16 percent of students eat three or more servings of vegetables daily.
- Overall, 27 percent of students eat five or more servings of fruits and vegetables daily. In 1999, 33 percent of students ate five or more servings of fruits and vegetables per day*.
- Over one-fourth (27%) of students drink 3 or more glasses of milk daily. In 2001, 35 percent of male students drank three or more glasses of milk per day, compared to 20 percent of female students.

FRUITS, VEGETABLE & MILK CONSUMPTION						GEN	NDER	ALL		
	8	9	10	11	12	F	М	2001	1999	
Percent of students who:										
Eat 2 or more servings of fruit or fruit juice per day	42	42	43	40	39	38	44	41	45	
Eat 3 or more servings of vegetables per day	18	17	15	15	13	15	16	16	14	
Eat 5 or more servings of fruits and vegetables per day	31	28	26	26	24	25	29	27	33	
Drink 1 or more glasses of milk per day	67	63	63	60	59	55	70	62	61	
Drink 3 or more glasses of milk per day	33	29	28	25	22	20	35	27	27	



✓ Physical Activity

This section asks students how often they engage in vigorous and moderate physical activities and physical education classes. Students are also asked how often they watch television and play on the computer for fun or play video games.

- Regular physical activity helps build and maintain healthy bones and muscles, control weight, build lean muscle, and reduce fat; reduces feelings of depression and anxiety; and promotes psychological wellbeing. In the long term, regular physical activity decreases the risk of dying prematurely, dying of heart disease, and developing diabetes, colon cancer, and high blood pressure. 62
- School physical education classes: Major decreases in vigorous physical activity occur during grades 9 through 12, particularly for girls; by 11th grade, more than half of female students in the US are not participating regularly in vigorous physical activity. School physical education classes can increase adolescent participation in moderate to vigorous physical activity and help adolescents develop the knowledge, attitudes, and skills they need to engage in lifelong physical activity. Across the US, daily participation in physical education class has dropped from 42 percent in 1991 to 29 percent in 1999.
- **Television viewing** is the principal sedentary leisure time behavior in the US. Studies have shown that television viewing in young people is related to obesity⁶⁷ and violent or aggressive behavior.^{68, 69} Using the computer for fun and playing video games have become increasingly common sedentary leisure time activities among young people as well.

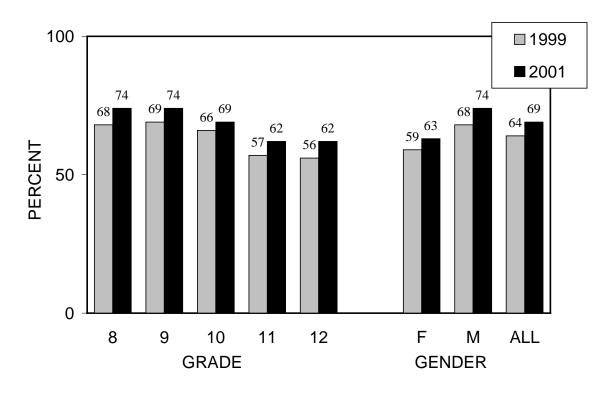
Related Healthy Vermonters 2010 Goals:

• Increase the percentage of middle and junior high students that require daily physical education for all students.

■ Physical Activity

- Seven out of 10 students participated in aerobic exercise. Overall, 69 percent of students participated in three or more days per week of aerobic exercise, compared to 64 percent in 1999 and 62 percent in 1997.
- Fewer females participate in aerobic exercise often than males. Less than two-thirds (63%) of female students exercised aerobically three or more days per week, compared to over threefourths (74%) of male students.

Percent of students who participated in aerobic exercise* three or more days during the past 7 days

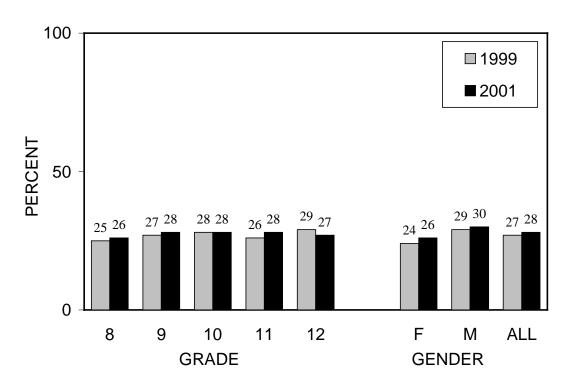


^{*}Activities that caused sweating and hard breathing for at least 20 minutes.

Physical Activity

 Overall, 28 percent of students exercised moderately five or more days per week.

Percent of students who exercised moderately* five or more days during the past 7 days



^{*} Activities that did not cause sweating and hard breathing, such as bicycling, skating, and pushing a lawn mower for at least 30 minutes.

■ Physical Activity

- More PE in lower grades.

 Ninety-four percent of 8th
 graders, compared to only 26
 percent of 12th graders,
 participated in at least one
 physical education class per
 week. The difference
 between 8th and 12th graders
 was similar in 1999 (92% vs
 18%).
- Overall, 50 percent of students exercise more than 20 minutes during PE class.

PHYSICAL EDUCATION	N GRADE			GENDER			ALL		
	8	9	10	11	12	F	М	2001	1999
Percent of students who participated in:									
Physical education classes at least once during the past 7 days	94	76	56	32	26	55	62	58	49
Physical education classes five days during the past 7 days	28	43	31	20	14	26	30	28	24
More than 20 minutes of exercise or sports during an average PE class	75	66	49	28	23	46	53	50	NA

Physical Activity

- About one-third (32%) of students spend three or more hours a school day watching TV, playing video games, or playing on the computer for fun.
- Overall, 8 percent of students spend five or more hours per school day watching TV or playing video games/computer.

TV AND COMPUTER GAMES	GRADE GENDER AL								LL
	8	9	10	11	12	F	М	2001	1999
Percent of students who:									
Spend 3 or more hours per school day watching TV or playing on the computer	35	35	34	28	26	27	37	32	45*
Spend 5 or more hours per school day watching TV or playing on the computer	9	9	9	7	5	5	10	8	18*

^{*}Questions regarding time spent watching TV or playing on computer or playing video games were modified in 2001; therefore, comparisons with previous data should be made with caution.

Healthy development depends not only on avoiding harmful behavior, but on strengthening the sources of positive influence in our lives. This section asks students about the grades they receive in school, how often their parents talk to them about school, how often they are involved in clubs or organizations, how often they volunteer their time helping their community, their perception about students' role in deciding what happens in school, and their perception of how they are valued by their communities.

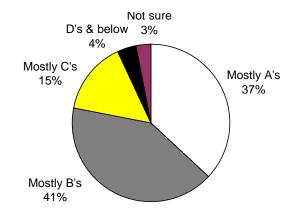
- **Grades in School:** Above-average school performance is viewed as one of many developmental assets (i.e., factors promoting positive development) for youth. Studies have shown that students who get higher grades in school are less likely to use cigarettes, alcohol, or marijuana, and are more likely to postpone sexual intercourse. In a survey of more than 250,000 youth across the United States, 47 percent of 6th -12th grade students reported that their school performance was above average.
- Parents Involvement in School: One of the strongest predictors of students' success in school is the extent to which their parents stay involved with their schoolwork—asking about academic progress, attending teacher conferences, and so on. In addition, a national study of adolescent health found that youth who reported a "connectedness" to their parents/family and school were the least likely to engage in risky behaviors. Parental expectations regarding school achievement were also associated with lower levels of risk behaviors. Only 27 percent of 6th to 12th grade students surveyed across the United States reported that their parents are involved in helping them succeed in school. 71
- Participation in youth programs and service to community: Research shows that involvement in constructive, supervised extra-curricular activities is associated with reduced likelihood of involvement in risky behaviors such as school failure, drug use, and crime. In addition, evidence is emerging that students who participate in such activities are also more likely to engage in other "thriving" behaviors.
- Youth as resources: Youth are not simply objects of adult efforts to modify their behaviors. Rather, if given the opportunities, they can make significant contributions to their families, schools, and communities. Adolescents, especially, need to exercise decision-making power in as many domains as is practical, so that they can develop into competent adults. Schools are a natural setting for youth to share in decisions that affect their lives.

■ Youth valued by their community: It stands to reason that young people respond positively when they perceive they are valued by others in their community. In a recent survey, even though 51 percent of Vermont youth reported they volunteered one hour a week or more in their community, only 22 percent reported they felt adults in their community valued young people. 74

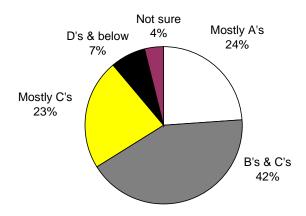
- The majority of students receive above average grades. Overall, 72 percent of students reported receiving B's and above.
- Females receive higher grades than males. Over one-third (37%) of female students reported receiving mostly A's, compared to 24 percent of male students.

FEMALES

Students' grades



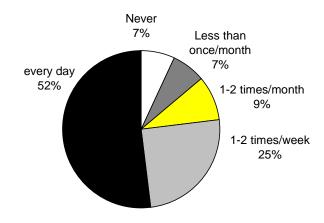
MALES



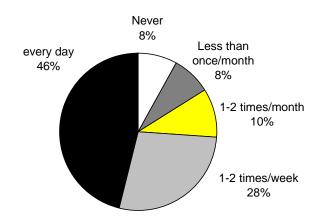
- Three-fourths (75%) of students' parents talk with them about school weekly or more often. Overall, 49 percent of students reported that their parents talked with them daily about school and 27 percent talked with them once or twice a week.
- Some parents rarely or never talk with their children about school. Overall, 8 percent of students reported that their parents never talk with them about school and 7 percent reported that their parents talk with them about school less than once a month.

How often does one of your parents talk with you about what you are doing in school?

FEMALES



MALES



Three out of 10 (30%)
 participate in clubs outside
 of school. No difference was
 seen among grades, but
 slightly more females than
 males participated in clubs or
 organizations outside of
 school (34% vs 26%).

PARTICIPATION IN YOUTH PROGRAMS	GRADE GENDER							
	8	9	10	11	12	F	М	All
Percent of students who:								
Spend 1 or more hours per week in clubs/organizations outside of school (not including sports)	33	28	28	30	32	34	26	30
Spend 3 or more hours per week in clubs/organizations outside of school (not including sports)	14	12	12	13	14	15	11	13

 Approximately half (48%) of Vermont students volunteer their time. No difference was seen across grades, but slightly more females than males participated in clubs or organizations outside of school (52% vs 45%).

SERVICE TO COMMUNITY	GRADE GENDER							
	8	9	10	11	12	F	М	All
Percent of students who:								
Spend 1 or more hours per week volunteering their time to make their community a better place to live	50	45	47	48	53	52	45	48
Spend 3 or more hours per week volunteering their time to help others make their community a better place to live	15	13	14	16	19	17	14	15

- A little over half (54%) of students report that students help decide what goes on at their school. No significant difference was seen across grades or sex
- Approximately half (49%) of students feel valued by their community.

YOUTH VALUED BY THEIR SCHOOL AND COMMUNITY	GRADE GENDER							
	8	9	10	11	12	F	M	All
Percent of students who agree with the following statements:								
Students help decide what goes on in my school	58	57	52	51	51	52	55	54
In my community, I feel like I matter to people	52	48	46	45	54	47	51	49

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