

Alcohol, Tobacco, and Other Drug Use Among Delaware Students, 1998



[KEY FINDINGS and OVERVIEW of STUDY](#)



[TABLES AND GRAPHS](#)

Trends in Monthly or Regular Drug Use in Delaware 1989-1998 Among 5th, 8th and 11th Graders for

- [Cigarettes](#)
- [Alcohol](#)
- [Marijuana](#)

Inhalants, Hallucinogens, Stimulants, Cocaine and Heroin Among

- [8th Graders](#)
- [11th Graders](#)

Important Footnote to the Trend Graphs and Tables of Delaware Students' Report of Monthly or Regular Use

1998 Estimates by Gender and County

	5th Graders	8th Graders	11th Graders
Cigarette Use	📄	📄	📄
Tobacco Use	📄	📄	📄
Alcohol Use	📄	📄	📄
Marijuana Use	📄	📄	📄
Other Illegal Drug Use	📄	📄	📄
Other Illegal Drug Use, Past Year	📄	📄	📄
Inhalant Use	📄	📄	📄
Past Month Alcohol, Marijuana & Other Illegal Drug Use by Past Month Cigarette Use	📄	📄	📄

Risk and Protective Factors for Drug Use

	5th Graders	8th Graders	11th Graders
Easy To Get Drugs	📄		
Know Where to buy Cigarettes and Alcohol	📄	📄	📄
Drug Education Among Delaware School Students	📄		
Sources of Cigarettes	📄	📄	📄
Substance Abuse by Others	📄	📄	📄
Trends, Preception of Substance Abuse Risk	📄	📄	📄
Risk Factors, Marijuana Use	📄	📄	📄

School Environment

	5th Graders	8th Graders	11th Graders
Fighting	📄	📄	📄
Safety	📄	📄	📄
Behavior	📄	📄	📄

Other Risk Behavior

	8th Graders	11th Graders
Rides with Drinking Driver	📄	📄
Rides with Marijuana Using Driver	📄	📄
Trends, Drinking/Smoking Marijuana and Driving		📄
Trends, Drinking and Driving		📄
Trends, Smoking Marijuana and Driving		📄
Drug Use and Driving by County, Past Year		📄
Past Deliquent Behavior, Self-Report	📄	
Past Month Substance Use by Past Year Deliquent Activities	📄	📄
Clinical Substance Abuse and Dependence	📄	📄
Trends in Meeting Criteria of Cigarette Use Dependence, 8th and 11th Graders	📄	
Trends in Meeting Criteria of Alcohol Use Dependence, 8th and 11th Graders	📄	
Trends in Meeting Criteria of Other Drug Use Dependence, 8th and 11th Graders	📄	

[Explanation of Dependence and Abuse Estimates](#)

Parental Involvement

	5th Graders	8th Graders	11th Graders
Past Month Substance Abuse by Gets Along With Parents	📄	📄	📄
Past Month Substance Abuse by Arguing/Fighting With Parents		📄	📄
Past Month Substance Abuse by Talk About School With Parents		📄	📄
Past Month Substance Abuse by Talk About Future With Parents		📄	📄
Parents Volunteer At School		📄	📄
Smokers in Household		📄	📄

National/Regional/Delaware Comparision
[5th, 8th, 11th Grades](#)

[The Sponsors of the Study](#)

I. SOME KEY FINDINGS:

Monthly Use Trends:

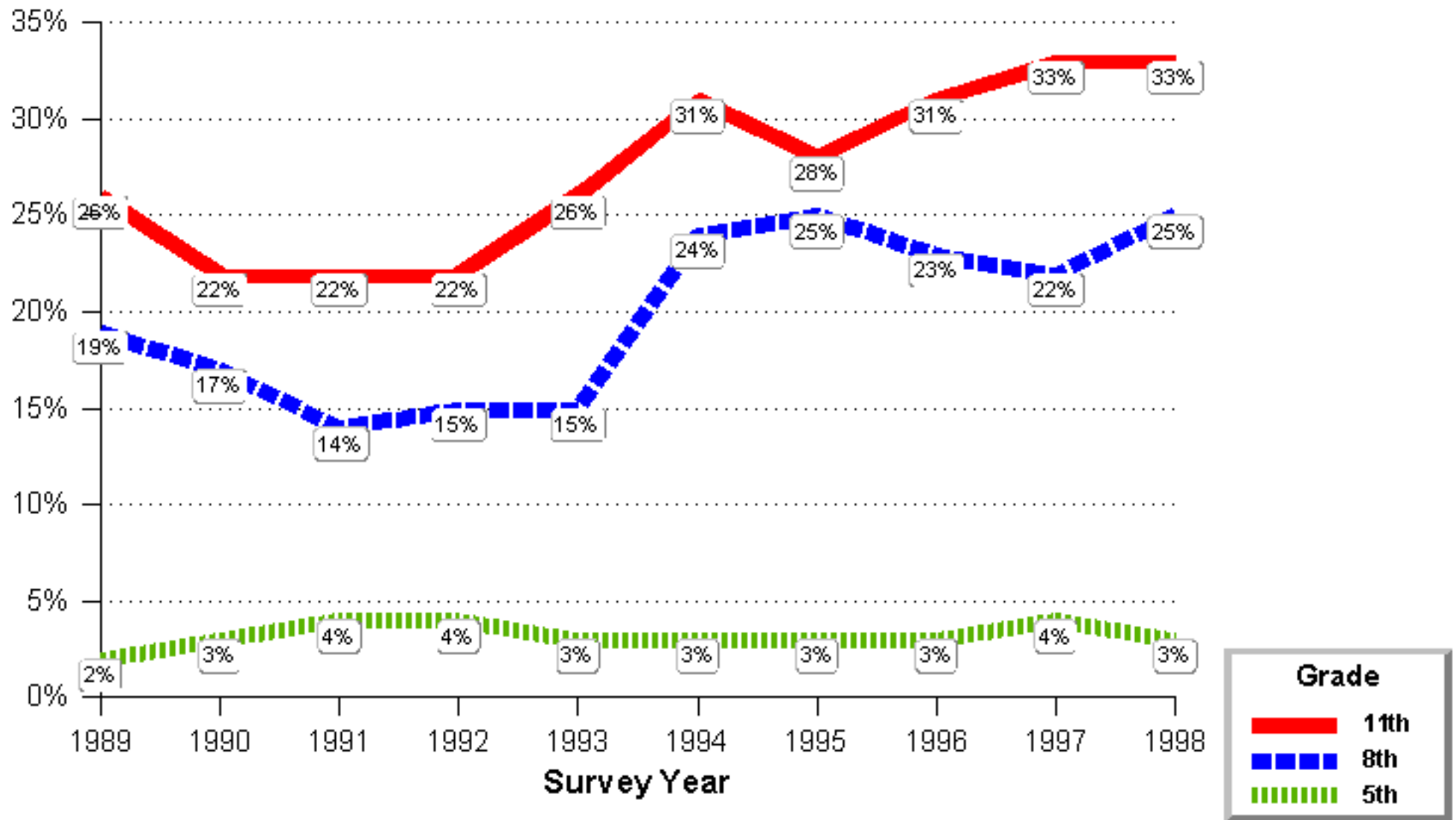
- Between 1989 - 1998, reports of monthly drug use by 5th graders have remained low and stable within margin of statistical error. There is no evidence of any trend up or down, and the estimates remain small. Very few 5th graders are current drug users.
- Monthly cigarette use by 11th graders, which had gone up significantly between 1995 and 1997, did not change in 1998; however, monthly cigarette use by 8th graders went up slightly in 1998 after two previous years of decline. One-third of 11th graders and one-fourth of 8th graders have smoked in the past month.
- Monthly alcohol use for 11th graders has remained at a very high level for the last decade, with an estimate for 1998 of 47%, the same as in 1997. Past month alcohol use for 8th graders has also been quite high but stable for the last decade, with 29% reporting drinking in the past month.
- Monthly marijuana use increased markedly from 1992 to 1995 for both 11th and 8th graders. Since 1995, 11th grade marijuana use has been stable with 25% past month users in 1998. However, 8th grade marijuana use rose 4% in 1998 to 19%, the highest ever recorded.
- Reports of monthly use of other drugs remain rare: the other drug most often used by 8th graders is inhalants (8%); and, for 11th graders, hallucinogens and stimulants (3%). For 8th and 11th graders, heroin use is 1%.

Other Findings:

- In the 5th grade, most students have not yet experimented with drugs. Even the most common drug tried, alcohol, has only been tried by one out of four, cigarettes by less than one out of five, and inhalants by less than one out of seven).
- In general, use of any of the drugs illegal for youth (that includes cigarettes and alcohol) does not differ significantly among the 3 Counties in Delaware. Nor, in general, are there significant differences in male and female use.
- About the only drug that males use consistently more than females is smokeless tobacco: smokeless tobacco use declined in 1998 for 8th and particularly 11th graders.
- Binge drinking (defined here as 3 or more drinks at a time in the past two weeks) is quite high among 8th and 11th graders: Most students who report having at least one drink in the past month also report binge drinking in the past 2 weeks. 28% of all 11th graders report binge drinking.

Trends in Delaware Students' Cigarette Use by Grade

Self-Reported Regular Use*, 1989-1998

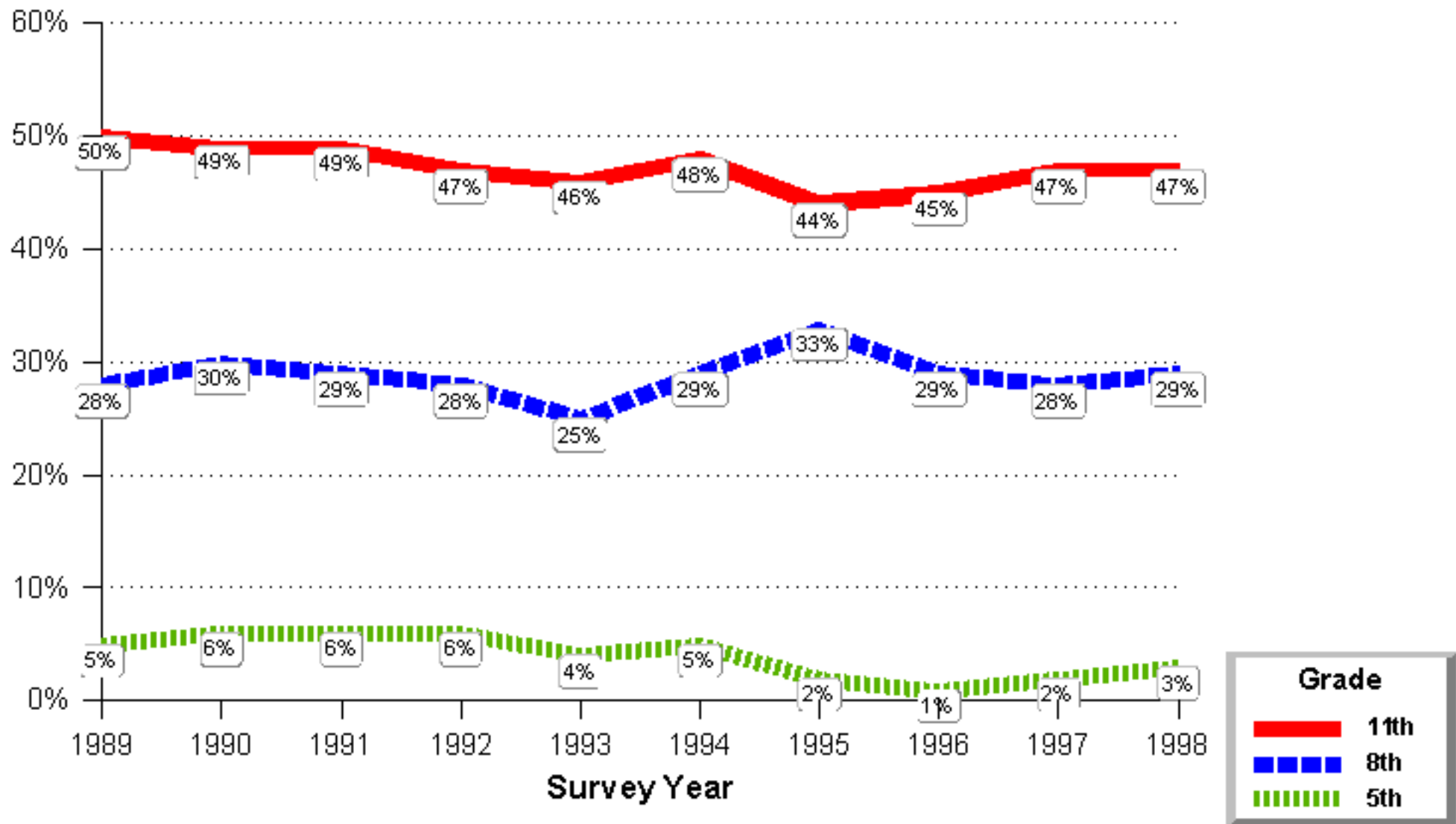


*Source: Data Base/DiagnosticsPlus (1989 - 1993); Department of Public Instruction 1994; University of Delaware Surveys 1995-1998.



Trends in Delaware Students' Alcohol Use by Grade

Self-Reported Regular Use*, 1989-1998

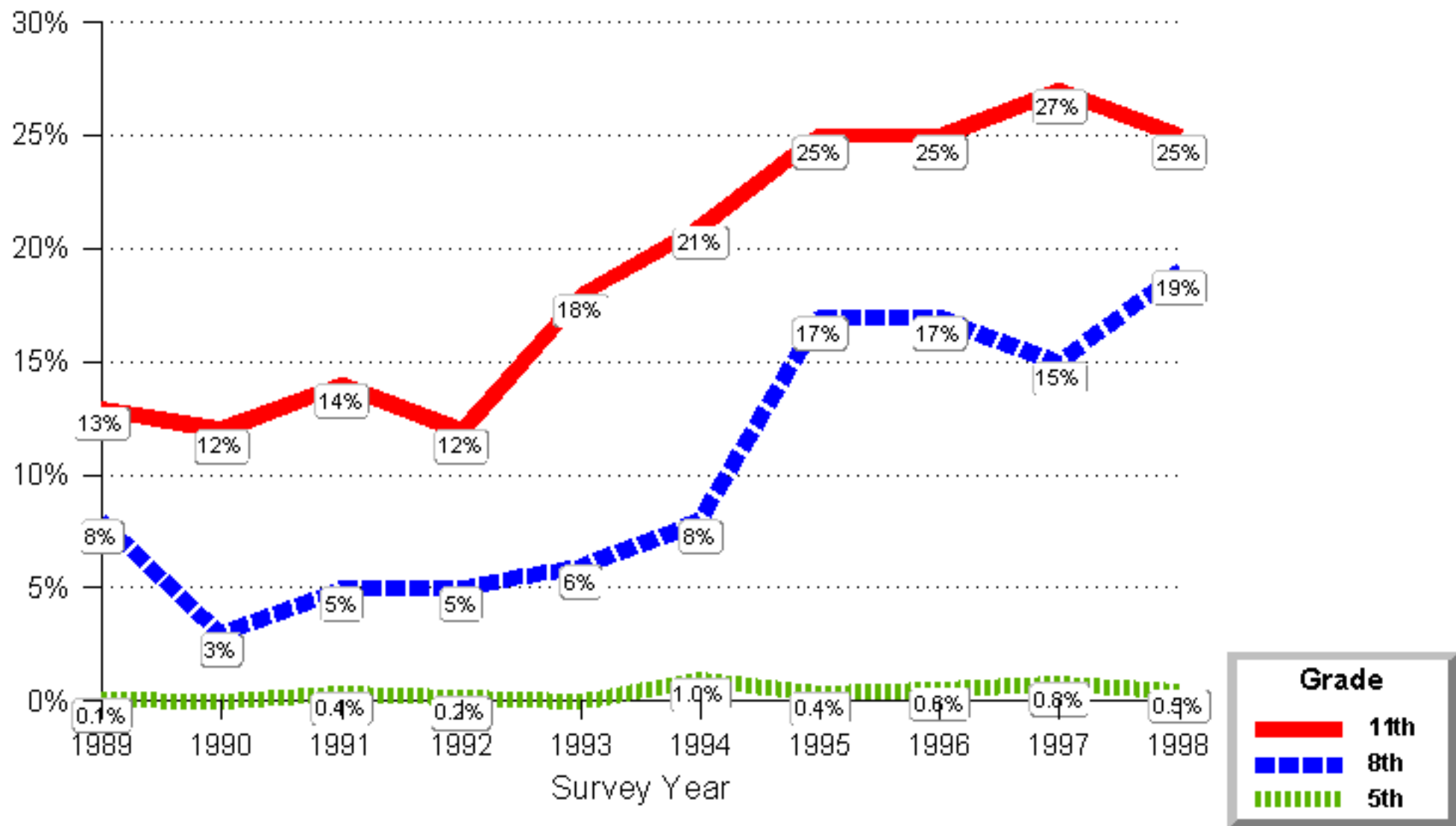


*Source: Data Base/DiagnosticsPlus (1989 - 1993); Department of Public Instruction 1994; University of Delaware Surveys 1995-1998.



Trends in Delaware Students' Marijuana Use by Grade

Self-Reported Regular Use*, 1989-1998



*Source: Data Base/ DiagnosticsPlus (1989 - 1993); Department of Public Instruction 1994; University of Delaware Surveys 1995-1998.

**TRENDS IN MONTHLY USE OF OTHER ILLEGAL DRUGS
AMONG DELAWARE EIGHTH GRADERS 1989-1998**

(percentages)

DRUG	YEAR									
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Inhalants	2	2	2	1	2	2	9	6	9	8
Hallucinogens	1	-	1	1	1	1	2	2	1	1
Stimulants	4	2	2	2	2	2	2	1	2	2
Cocaine	1	-	1	-	-	1	1	-	1	1
Heroin	na	na	na	na	na	na	na	na	1	1

**TRENDS IN MONTHLY USE OF OTHER ILLEGAL DRUGS
AMONG DELAWARE ELEVENTH GRADERS 1989-1998**

(percentages)

DRUG	YEAR									
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Inhalants	3	2	1	2	1	4	2	3	3	2
Hallucinogens	2	1	3	2	3	4	3	3	3	3
Stimulants	3	2	3	3	3	4	2	2	4	3
Cocaine	3	2	1	1	-	1	1	2	2	2
Heroin	1	-	1	-	-	na	1	1	1	1

Note: (-) indicates less than one-half of one percent

(na) indicates question was not asked that year

See explanation of change in definition of monthly use for some drugs beginning in 1995.

Source: Data/Base Diagnostics Plus (1989-1993); Department of Public Instruction 1994;

University of Delaware Survey 1995-1998

Important Footnote to the Trend Graphs and Tables of Delaware Students' Report of Monthly or Regular Use:

• The data from the 1989 - 1994 PAUS Survey done for the Department of Public Instruction (DPI) come from responses to the questions: "How often do you usually use (or have ever used) each of:

Cigarettes

Alcohol (beer, wine, liquor, coolers)

Marijuana (grass, pot, hash, weed)"

with response categories: (never), (once or twice before but not again), (about once or twice a year), (about once or twice a month), (about once or twice a week), and (almost every day). Responses of (about once or twice a month) or more often are considered monthly or regular use.

• The data from the 1995 - 1998 University of Delaware Surveys for 5th graders come from responses to a question like that used in the PAUS survey. The data for 8th and 11th graders are different. They come from the questions used in the national Monitoring the Future Surveys (MTF):

"In the past month,

how many cigarettes have you smoked

how many times have you had a drink (not just a few sips) of alcohol (beer, wine, liquor, mixed drinks)

how many times have you smoked marijuana (grass, pot, hash, weed)

with responses of one full cigarette and one time or more being coded as regular use.

In both the PAUS and UD surveys, any student who reports use of a fictitious drug (in 1998 "dactyls") is excluded from the analysis.

Nationally, use of marijuana by youth escalated dramatically between 1993 and 1995. It increased even more dramatically in Delaware; however, the change in wording after 1995 may explain part of the increase in drug use shown in the figures from 1994 to 1995. This is particularly true for the 8th graders, if one assumes that past month use may be experimental and not indicative of what one "usually uses." This means the 1995-1998 question may be measuring past month use rather than past month regular use. And the Delaware estimates for 1989-1994 may actually underestimate past month use, as measured in the national MTF and National Household surveys. The question format has been consistent since 1995.

CIGARETTE USE AMONG DELAWARE FIFTH GRADERS 1998
(percentages)

	LIFETIME USE	PAST YEAR USE	PAST MONTH USE	GREAT RISK OF HARM FROM PACK OR MORE PER DAY
Statewide	18	7	3	47
Males	22	8	3	41
Females	15	6	3	53
New Castle	18	6	4	53
Males	22	8	3	48
Females	14	5	2	55
Kent	18	8	4	39
Males	21	8	4	29
Females	16	8	4	47
Sussex	18	7	3	50
Males	22	7	3	42
Females	15	6	3	57

Source: University of Delaware Survey 1998

CIGARETTE USE AMONG DELAWARE EIGHTH GRADERS 1998

(percentages)

	LIFETIME USE	PAST YEAR USE	PAST MONTH USE	HEAVY USE	GREAT RISK OF HARM FROM PACK OR MORE PER DAY
Statewide	46	36	24	8	41
Males	41	32	21	8	37
Females	50	40	27	8	45
New Castle	46	37	24	8	41
Males	41	32	21	8	38
Females	51	41	28	8	44
Kent	47	38	27	7	44
Males	44	34	27	7	39
Females	49	41	27	8	47
Sussex	44	33	22	7	39
Males	40	29	19	7	35
Females	49	38	25	8	44

Note: Heavy use is more than 1/2 pack per day in last 30 days.

Source: University of Delaware Survey 1998

CIGARETTE USE AMONG DELAWARE ELEVENTH GRADERS 1998

(Percentages)

	LIFETIME USE	PAST YEAR USE	PAST MONTH USE	HEAVY USE	GREAT RISK OF HARM FROM PACK OR MORE/ DAY
Statewide	57	44	33	13	59
Males	55	42	33	15	53
Females	58	45	33	13	63
New Castle	53	41	30	11	60
Males	51	39	28	11	55
Females	56	44	31	12	65
Kent	59	43	34	15	59
Males	59	46	40	19	49
Females	59	41	29	12	66
Sussex	61	48	39	16	57
Males	59	46	39	19	54
Females	62	50	39	14	59

Note: Heavy use is more than 1/2 pack per day in last 30 days.

Source: University of Delaware Survey 1998

TOBACCO USE AMONG DELAWARE FIFTH GRADERS 1998

(percentages)

	LIFETIME USE			PAST YEAR			PAST MONTH		
	Cigarette	Smokeless	All	Cigarette	Smokeless	All	Cigarette	Smokeless	All
State	18	5	20	7	2	8	3	1	3
Male	22	9	25	8	2	9	3	1	4
Female	15	2	15	6	1	6	3	1	3
New Castle	18	4	20	6	1	7	3	-	3
Male	22	7	25	8	2	9	3	1	4
Female	14	2	14	5	1	5	2	-	2
Kent	18	9	22	8	3	10	4	2	4
Male	21	16	28	8	4	11	4	2	4
Female	16	2	16	8	2	8	4	2	4
Sussex	18	3	19	7	1	7	3	-	3
Male	22	3	23	7	2	8	3	1	4
Female	15	3	16	6	-	6	3	-	3

Note: (-) indicates less than one half of one percent

Source: University of Delaware Survey 1998

TOBACCO USE AMONG DELAWARE EIGHTH GRADERS 1998

(percentages)

	LIFETIME USE			PAST YEAR			PAST MONTH		
	Cigarette	Smokeless	All	Cigarette	Smokeless	All	Cigarette	Smokeless	All
State	46	12	47	36	8	38	24	4	26
Male	41	17	44	32	11	34	21	6	24
Female	50	6	50	40	4	41	27	2	28
New Castle	46	10	47	37	6	38	24	3	26
Male	41	15	44	32	9	34	21	5	23
Female	51	4	51	41	2	41	28	1	28
Kent	47	12	48	38	10	39	27	5	28
Male	44	18	46	34	13	35	27	7	27
Female	49	8	50	41	7	42	27	4	28
Sussex	44	15	46	33	10	36	22	6	24
Male	40	21	44	29	13	34	19	8	22
Female	49	9	49	38	6	38	25	3	25

Source: University of Delaware Survey 1998

TOBACCO USE AMONG DELAWARE ELEVENTH GRADERS 1998

(Percentages)

	LIFETIME USE			PAST YEAR			PAST MONTH		
	Cigarette	Smokeless	All	Cigarette	Smokeless	All	Cigarette	Smokeless	All
State	57	16	58	44	9	45	33	4	34
Male	55	27	58	42	16	45	33	7	35
Female	58	8	59	45	3	45	33	2	34
New Castle	53	13	55	41	7	43	30	3	30
Male	51	18	53	39	10	41	28	3	29
Female	56	7	56	44	4	44	31	3	32
Kent	59	14	61	43	8	45	34	5	35
Male	59	28	64	46	17	51	40	11	44
Female	59	4	59	41	1	41	29	1	29
Sussex	61	24	62	48	13	50	39	7	40
Male	59	41	63	46	26	50	39	13	41
Female	62	12	62	50	4	50	39	2	39

Source: University of Delaware Survey 1998

ALCOHOL USE AMONG DELAWARE FIFTH GRADERS 1998

(percentages)

	LIFETIME USE	PAST YEAR USE	PAST MONTH USE	GREAT RISK OF HARM FROM:	
				TRYING	DAILY USE
<u>Statewide</u>	25	9	3	16	38
<u>Males</u>	28	11	4	14	34
<u>Females</u>	21	8	3	18	41
<u>New Castle</u>	26	9	2	17	43
<u>Males</u>	32	13	2	15	41
<u>Females</u>	20	6	2	20	45
<u>Kent</u>	23	10	5	15	32
<u>Males</u>	23	11	6	12	23
<u>Females</u>	22	9	5	17	39
<u>Sussex</u>	25	8	3	14	35
<u>Males</u>	28	8	4	13	33
<u>Females</u>	22	8	1	16	37

Source: University of Delaware Survey 1998

ALCOHOL USE AMONG DELAWARE EIGHTH GRADERS 1998

(percentages)

	LIFETIME USE	PAST YEAR USE	PAST MONTH USE	BINGE USE	GREAT RISK OR HARM FROM:	
					DAILY USE	BINGE
Statewide	57	46	29	15	20	39
Males	55	44	25	15	17	36
Females	57	48	33	15	22	41
New Castle	58	48	31	17	18	36
Males	57	47	26	17	15	34
Females	58	48	35	17	21	39
Kent	57	47	30	18	21	41
Males	56	47	28	20	16	36
Females	57	47	30	16	25	43
Sussex	54	41	25	10	21	41
Males	52	35	19	9	22	40
Females	56	48	32	12	21	42

Note: Binge use is defined as 3 drinks at a time in the last 2 weeks.

Source: University of Delaware Survey 1998

ALCOHOL USE AMONG DELAWARE ELEVENTH GRADERS 1998

(Percentages)

	LIFETIME USE	PAST YEAR USE	PAST MONTH USE	BINGE USE	GREAT RISK OR HARM FROM:	
					DAILY USE	BINGE
Statewide	77	69	47	28	28	43
Males	73	65	49	31	21	35
Females	81	73	45	26	34	49
New Castle	74	65	42	25	30	44
Males	68	61	43	27	22	40
Females	79	70	41	24	37	47
Kent	80	75	49	31	29	42
Males	72	68	58	40	19	26
Females	85	80	41	25	37	54
Sussex	81	72	53	31	24	41
Males	81	70	55	32	20	34
Females	81	73	52	31	28	47

Note: Binge use is defined as 3 drinks at a time in the last 2 weeks.

Source: University of Delaware Survey 1998

MARIJUANA USE AMONG DELAWARE FIFTH GRADERS 1998

(percentages)

	LIFETIME USE	PAST YEAR USE	PAST MONTH USE	GREAT RISK OF HARM FROM:	
				TRYING	WEEKLY USE
Statewide	2	1	1	28	50
Males	3	1	1	25	44
Females	2	1	-	31	55
New Castle	2	1	-	29	55
Males	2	1	1	28	52
Females	1	-	-	30	57
Kent	4	1	1	25	42
Males	4	-	-	16	29
Females	3	1	1	31	53
Sussex	2	1	-	32	50
Males	3	2	1	30	46
Females	1	-	-	33	53

Note: (-) indicates less than one half of one percent.

Source: University of Delaware Survey 1998

MARIJUANA USE AMONG DELAWARE EIGHTH GRADERS 1998

(Percentages)

	LIFETIME USE	PAST YEAR USE	PAST MONTH USE	HEAVY USE	GREAT RISK OF HARM FROM:	
					TRYING	WEEKLY USE
Statewide	29	26	19	9	18	54
Males	29	25	19	10	16	48
Females	29	25	19	7	21	59
New Castle	31	28	20	10	14	52
Males	28	26	18	10	10	46
Females	33	30	21	10	19	59
Kent	29	25	21	9	22	55
Males	31	27	23	13	21	48
Females	28	23	19	6	22	61
Sussex	25	22	15	5	22	55
Males	28	24	17	8	21	50
Females	23	21	12	2	23	60

Note: Heavy use indicates more than 6 times in the past month.

Source: University of Delaware Survey 1998

MARIJUANA USE AMONG DELAWARE ELEVENTH GRADERS, 1998
(Percentages)

	LIFETIME USE	PAST YEAR USE	PAST MONTH USE	HEAVY USE	GREAT RISK OF HARM FROM:	
					TRYING	WEEKLY USE
Statewide	50	42	25	13	15	51
Males	48	41	28	18	15	46
Females	51	43	23	9	15	54
New Castle	49	41	24	13	15	48
Males	47	39	27	17	15	46
Females	51	42	22	10	15	50
Kent	52	46	28	15	13	50
Males	49	42	30	21	8	44
Females	55	49	27	12	15	55
Sussex	50	42	25	11	17	55
Males	50	45	31	17	19	49
Females	49	40	21	7	16	59

Note: Heavy use indicates more than six times in the past month.

Source: University of Delaware Survey 1998

OTHER ILLEGAL DRUG USE AMONG DELAWARE FIFTH GRADERS 1998

(percentages)

	LIFETIME	PAST YEAR	PAST MONTH
Statewide	16	5	3
Males	19	7	5
Females	14	4	2
New Castle	18	5	3
Males	19	5	3
Females	15	5	2
Kent	15	7	4
Males	17	10	8
Females	12	4	2
Sussex	16	5	4
Males	21	7	6
Females	13	4	2

Note: Other illegal substances include prescription downers, prescription uppers, inhalants, hallucinogens, crack, and cocaine.

Source: University of Delaware Survey 1998

OTHER ILLEGAL DRUG USE AMONG DELAWARE EIGHTH GRADERS 1998

(Percentages)

	LIFETIME	PAST YEAR	PAST MONTH
Statewide	28	20	11
Males	28	19	10
Females	27	20	11
New Castle	27	18	9
Males	30	18	9
Females	23	18	9
Kent	32	22	11
Males	30	22	8
Females	32	22	13
Sussex	25	20	14
Males	23	19	14
Females	28	21	13

Note: Other illegal substances include prescription downers, prescription stimulants, inhalants, hallucinogens, crack, cocaine, and heroin.

Source: University of Delaware Survey 1998

**OTHER ILLEGAL DRUG USE AMONG DELAWARE ELEVENTH GRADERS
1998**
(Percentages)

	LIFETIME	PAST YEAR	PAST MONTH
Statewide	28	17	8
Males	28	18	9
Females	29	17	8
New Castle	26	14	6
Males	25	14	6
Females	27	15	6
Kent	30	18	10
Males	33	20	11
Females	27	16	9
Sussex	33	21	11
Males	31	23	11
Females	34	19	10

Note: Other illegal substances include prescription downers, prescription stimulants, inhalants, hallucinogens, crack, cocaine and heroin.

Source: University of Delaware Survey 1998

PAST YEAR USE OF OTHER ILLEGAL SUBSTANCES FOR FIFTH GRADERS

1998

(percentages)

	Stimulants	Downers	Hallucinogens	Crack	Cocaine
Statewide	1	1	-	-	-
Males	1	2	1	-	-
Females	1	1	-	-	-
New Castle	-	1	-	-	-
Males	1	1	-	-	-
Females	-	1	-	-	-
Kent	2	2	-	-	-
Males	2	3	1	-	-
Females	1	1	-	1	1
Sussex	1	1	-	-	-
Males	2	2	1	1	1
Females	1	-	-	-	-

Note: (-) indicates less than one half of one percent

Source: University of Delaware Survey 1998

**PAST YEAR USE OF OTHER ILLEGAL SUBSTANCES
AMONG EIGHTH GRADERS 1998**

(Percentages)

	Uppers	Downers	Hallucinogens	Crack	Heroin	Cocaine
Statewide	5	3	5	2	1	2
Males	5	3	5	2	1	2
Females	6	3	5	1	1	3
New Castle	4	2	4	2	1	2
Males	4	2	4	2	1	2
Females	4	1	5	1	-	2
Kent	7	4	7	2	2	3
Males	7	5	9	2	2	2
Females	8	3	5	1	2	3
Sussex	5	3	4	2	2	2
Males	3	2	3	1	1	1
Females	6	4	4	2	2	3

Note: (-) indicates less than one-half of one percent.

Source: University of Delaware Survey 1998

PAST YEAR USE OF OTHER ILLEGAL SUBSTANCES AMONG ELEVENTH GRADERS 1998
(Percentages)

	Uppers	Downers	Hallucinogens	Crack	Heroin	Cocaine
Statewide	6	3	9	1	1	4
Males	5	3	12	1	2	4
Females	7	3	6	1	-	4
New Castle	4	3	7	2	1	3
Males	3	2	10	2	2	3
Females	5	4	5	1	1	2
Kent	10	2	9	-	1	3
Males	8	3	14	0	2	4
Females	12	1	5	1	0	1
Sussex	7	5	11	1	1	7
Males	5	6	15	2	2	5
Females	8	5	7	1	0	8

(-) indicates less than one percent

Source: University of Delaware Survey 1998

INHALANT USE AMONG DELAWARE FIFTH GRADERS 1998

(percentages)

	LIFETIME USE	PAST YEAR USE	PAST MONTH USE	GREAT RISK OF HARM FROM:	
				TRYING	WEEKLY USE
Statewide	13	4	2	19	46
Males	14	4	3	18	47
Females	11	4	2	21	51
New Castle	13	3	2	19	48
Males	13	2	1	21	46
Females	13	4	2	18	50
Kent	12	5	3	21	39
Males	13	7	6	13	28
Females	10	4	1	28	49
Sussex	13	4	3	17	48
Males	16	5	3	16	43
Females	10	3	2	18	53

Source: University of Delaware Survey 1998

INHALANT USE AMONG DELAWARE EIGHTH GRADERS 1998

(percentages)

	LIFETIME USE	PAST YEAR USE	PAST MONTH USE	HEAVY USE	GREAT RISK OF HARM FROM:	
					TRYING	WEEKLY USE
Statewide	20	13	8	2	28	56
Males	21	13	7	2	29	52
Females	18	13	8	2	28	60
New Castle	20	13	6	3	25	53
Males	24	13	6	3	23	50
Females	15	12	6	3	27	57
Kent	21	13	8	2	33	63
Males	19	9	5	2	37	59
Females	23	16	10	2	30	65
Sussex	18	14	10	2	29	55
Males	17	15	11	3	32	50
Females	18	13	9	2	26	61

Note: (-) indicates less than one half of one percent. Heavy Use indicates more than 6 times in the past month.
 Source: University of Delaware Survey 1998

INHALANT USE AMONG DELAWARE ELEVENTH GRADERS 1998

(Percentages)

	LIFETIME USE	PAST YEAR USE	PAST MONTH USE	HEAVY USE	GREAT RISK OF HARM FROM:	
					TRYING	WEEKLY USE
Statewide	12	5	2	-	41	73
Males	14	6	3	1	42	70
Females	10	4	2	-	40	76
New Castle	11	5	2	1	40	74
Males	12	5	3	1	40	70
Females	10	4	1	-	41	78
Kent	11	3	2	-	41	71
Males	18	7	4	-	40	64
Females	7	1	1	-	51	76
Sussex	13	7	3	1	42	73
Males	14	7	3	1	48	73
Females	12	6	3	-	38	72

Note: (-) indicates less than one half of one percent.

Source: University of Delaware Survey 1998

PAST MONTH ALCOHOL, MARIJUANA AND OTHER ILLEGAL DRUG USE AMONG DELAWARE 5TH GRADERS

BY PAST MONTH CIGARETTE USE 1998

(percentages)

	Past Month Cigarette Use	
	Yes	No
	n=29 (3%)	n=1,017 (97%)
Past Month Alcohol Use***		
Yes	41	2
No	59	98
Past Month Marijuana Use***		
Yes	13	-
No	87	100
Past Month Other Illegal Drug Use***		
Yes	25	3
No	75	97

Note: (-) indicates less than one-half of one percent

*** p < .001, corrected for continuity

Source: University of Delaware Survey 1998

**PAST MONTH ALCOHOL, MARIJUANA AND OTHER ILLEGAL DRUG USE
AMONG DELAWARE 8TH GRADERS BY PAST MONTH CIGARETTE USE
1998**

(Percentages)

	Past Month Cigarette Use	
	Yes n=277 (24%)	No n=858 (76%)
Past Month Alcohol Use***		
Yes	69	16
No	31	84
Past Month Marijuana Use***		
Yes	54	8
No	46	93
Past Month Other Illegal Drug Use***		
Yes	23	7
No	77	93

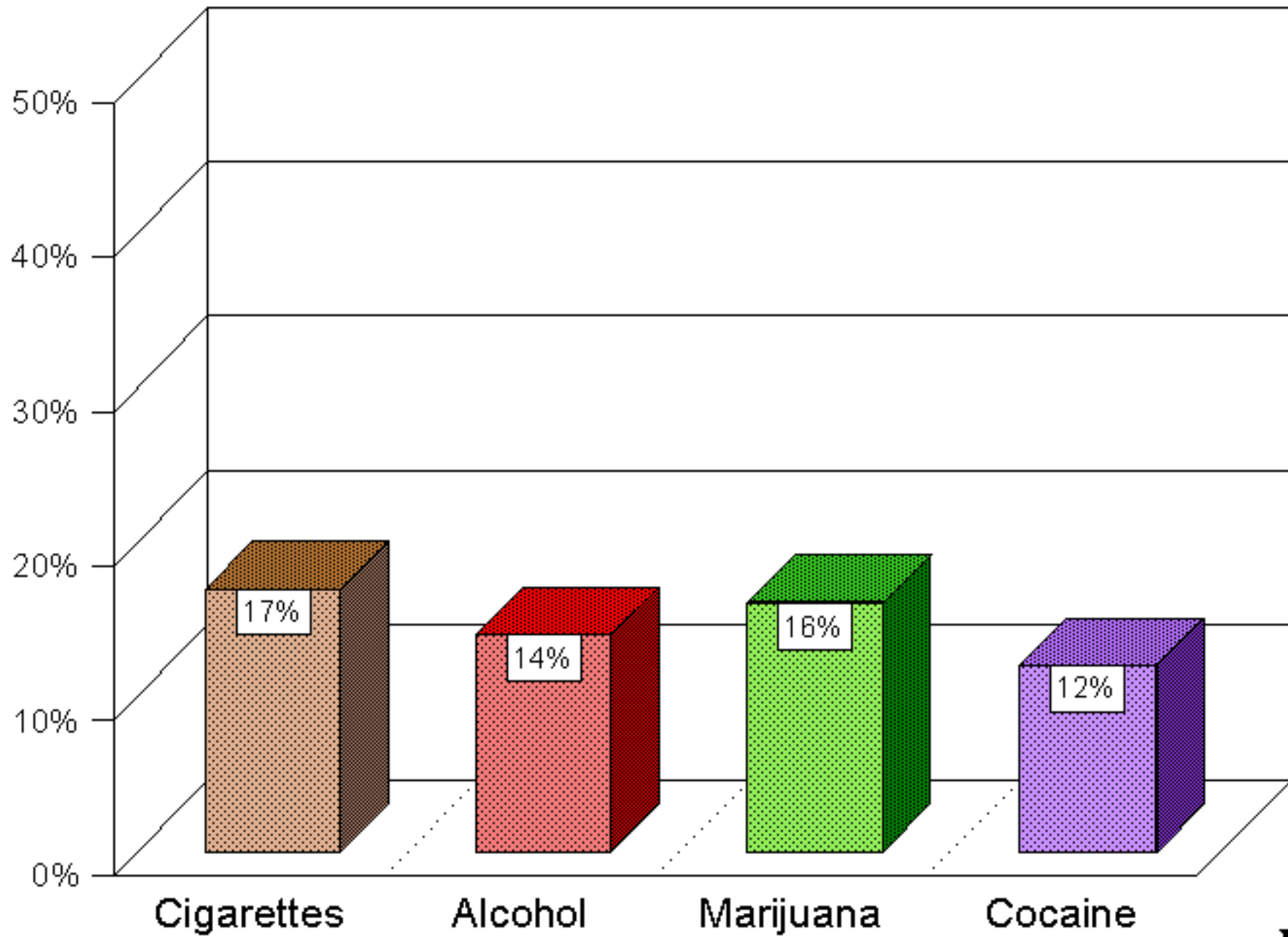
Note: *** p < .001, corrected for continuity
Source: University of Delaware Survey 1998

**PAST MONTH ALCOHOL, MARIJUANA AND OTHER ILLEGAL DRUG USE
AMONG DELAWARE 11TH GRADERS BY PAST MONTH CIGARETTE USE 1998**
(Percentages)

	Past Month Cigarette Use	
	Yes n=382 (33%)	No n=764 (67%)
Past Month Alcohol Use***		
Yes	77	32
No	23	68
Past Month Marijuana Use***		
Yes	52	12
No	48	88
Past Month Other Illegal Drug Use***		
Yes	20	2
No	80	98

Note: *** $p < .001$, corrected for continuity
Source: University of Delaware Survey 1998

EASY TO GET DRUGS Among Delaware Fifth Graders 1998



Source: University of Delaware Survey 1998



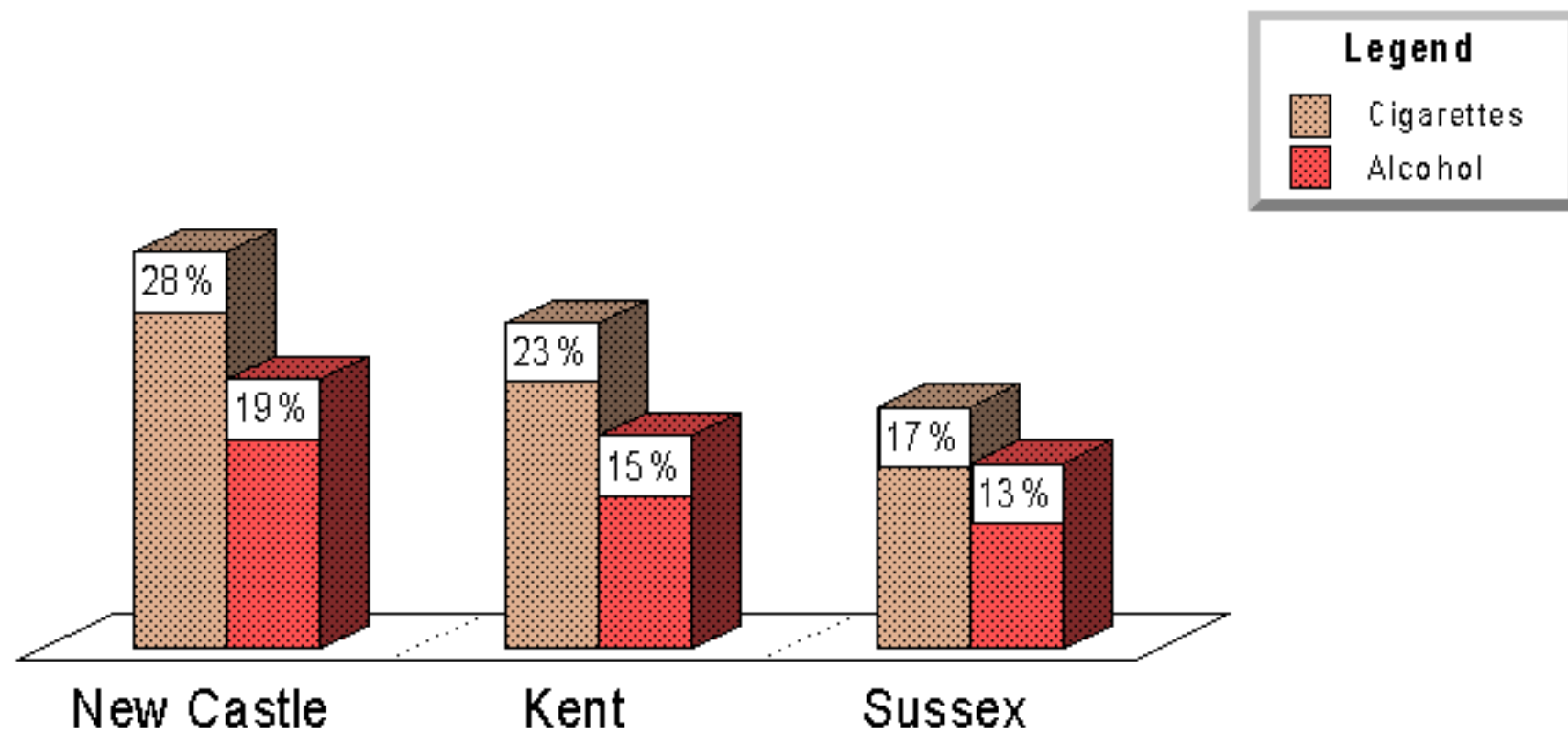
1998 FIFTH GRADERS WHO SAY IT IS EASY TO GET: (Percentages)

	Cigarettes	Alcohol	Marijuana	Cocaine
Statewide	17	14	16	12
Males	20	14	16	11
Females	15	14	15	13
New Castle	17	13	18	14
Males	19	13	18	11
Females	15	13	18	16
Kent	17	17	16	13
Males	22	20	17	15
Females	13	15	14	11
Sussex	19	13	12	9
Males	20	11	12	7
Females	18	16	12	11

Note: (-) indicates less than one half of one percent
Source: University of Delaware Survey 1998

KNOW WHERE TO BUY CIGARETTES AND ALCOHOL BY COUNTY

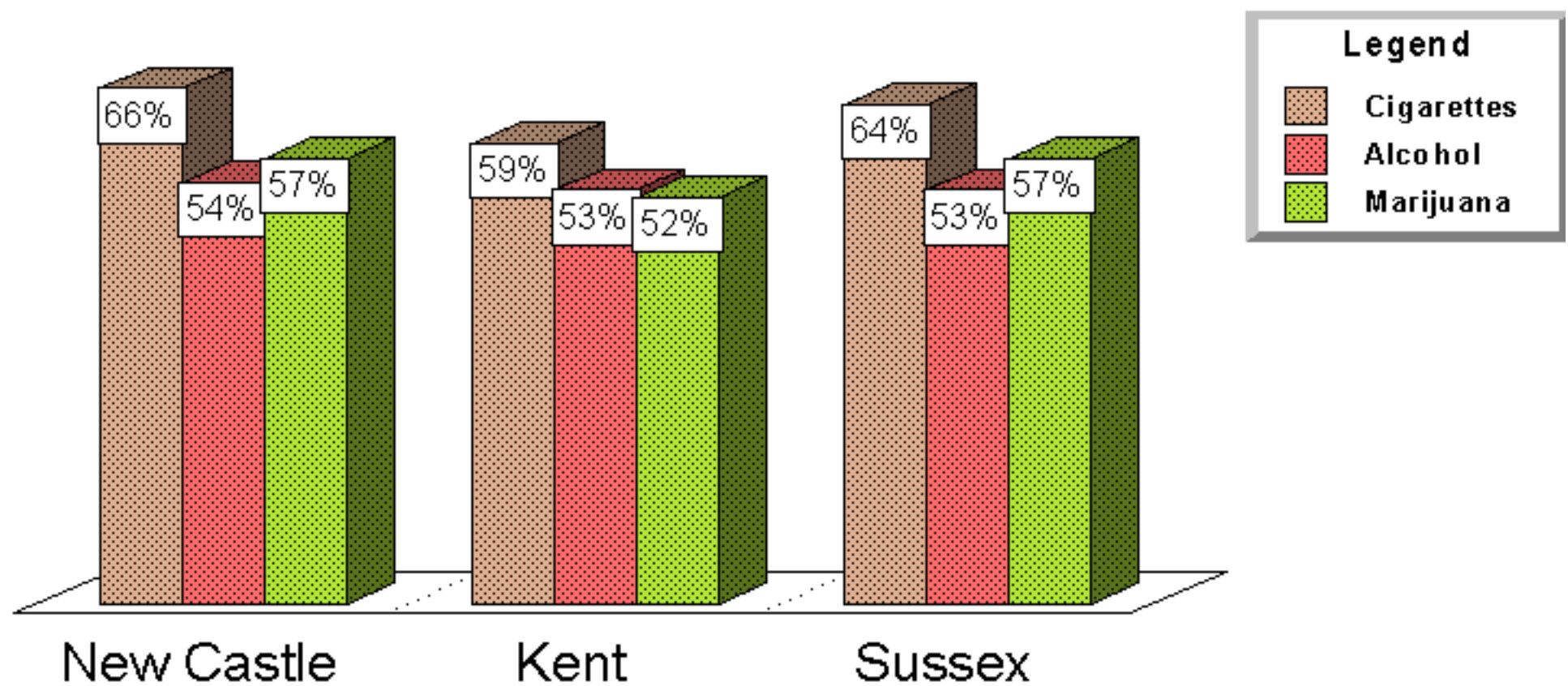
Among Delaware Fifth Graders 1998



Source: University of Delaware Survey 1998

KNOW WHERE TO GET CIGARETTES, ALCOHOL & MARIJUANA BY COUNTY

Among Delaware Eighth Graders 1998

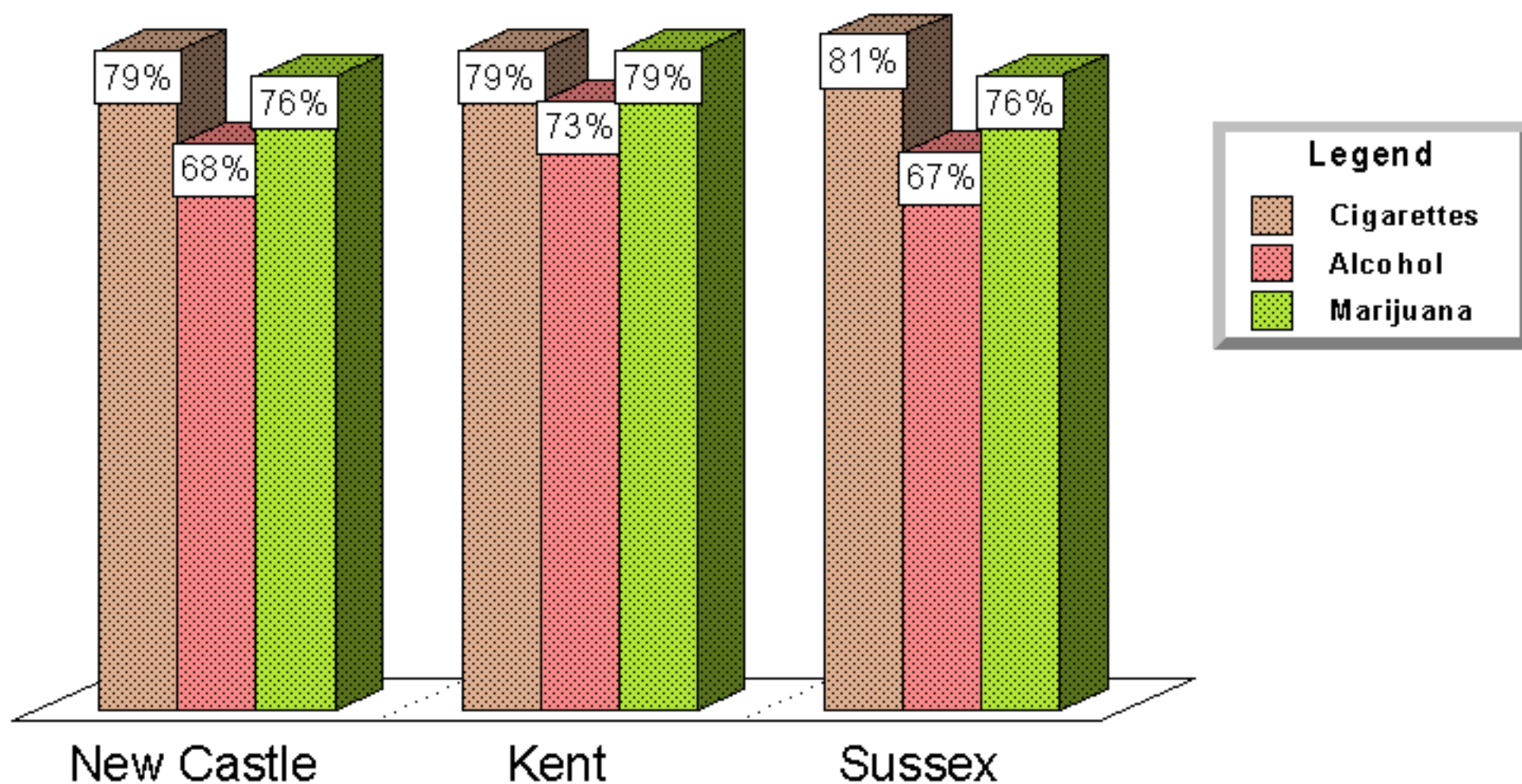


Source: University of Delaware Survey 1998



KNOW WHERE TO GET CIGARETTES, ALCOHOL & MARIJUANA BY COUNTY

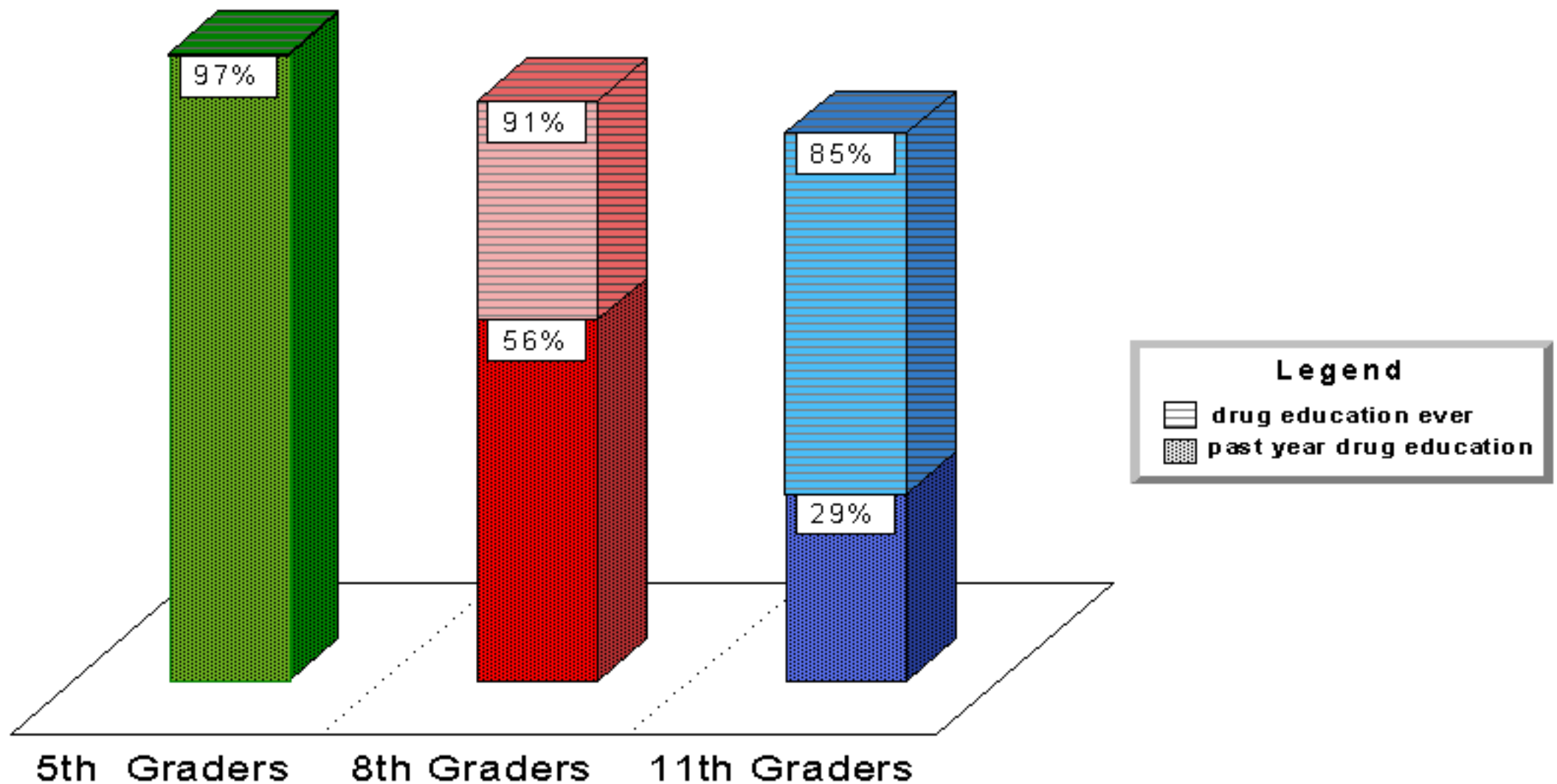
Among Delaware Eleventh Graders 1998



Source: University of Delaware Survey 1998



PERCENT RECEIVING DRUG EDUCATION Among Delaware School Students 1998



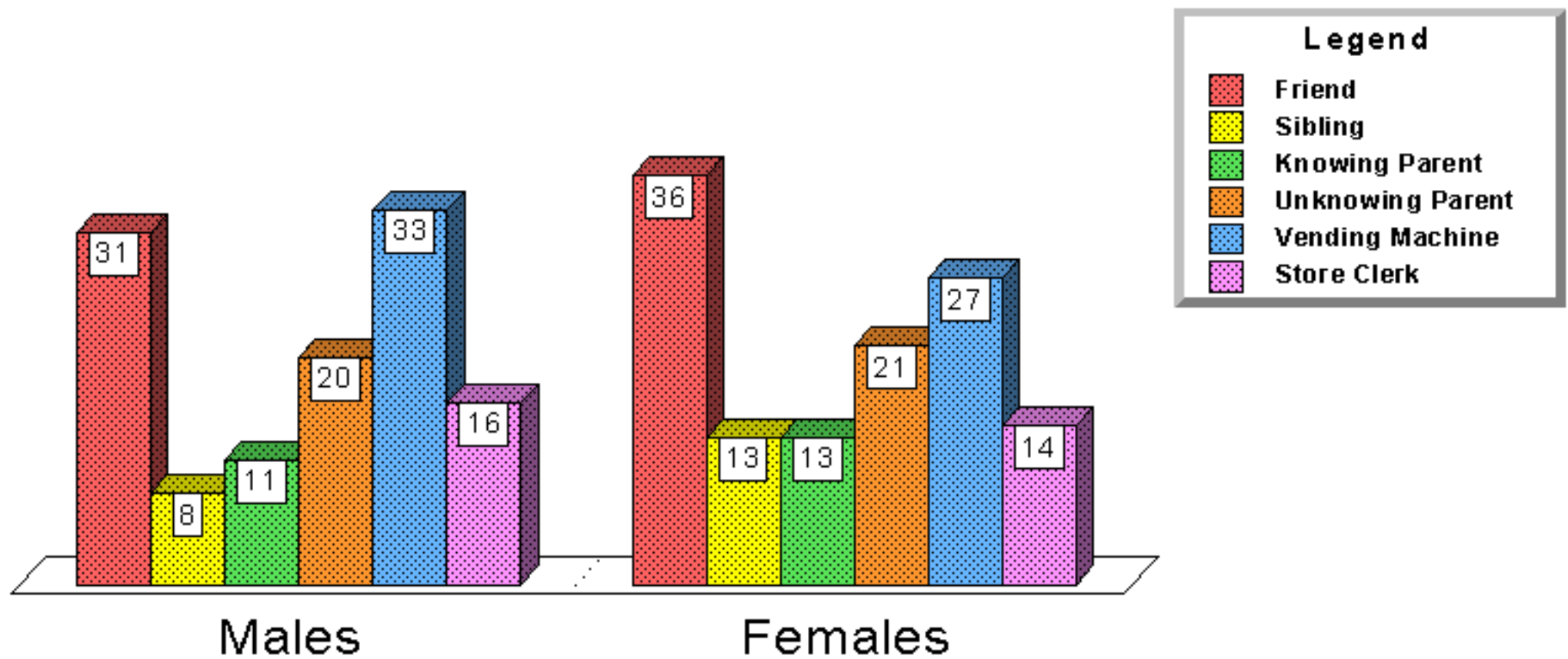
Source: University of Delaware Survey 1998



WHERE DO THEY GET CIGARETTES?

Among Delaware Fifth Graders 1998

(percentages)



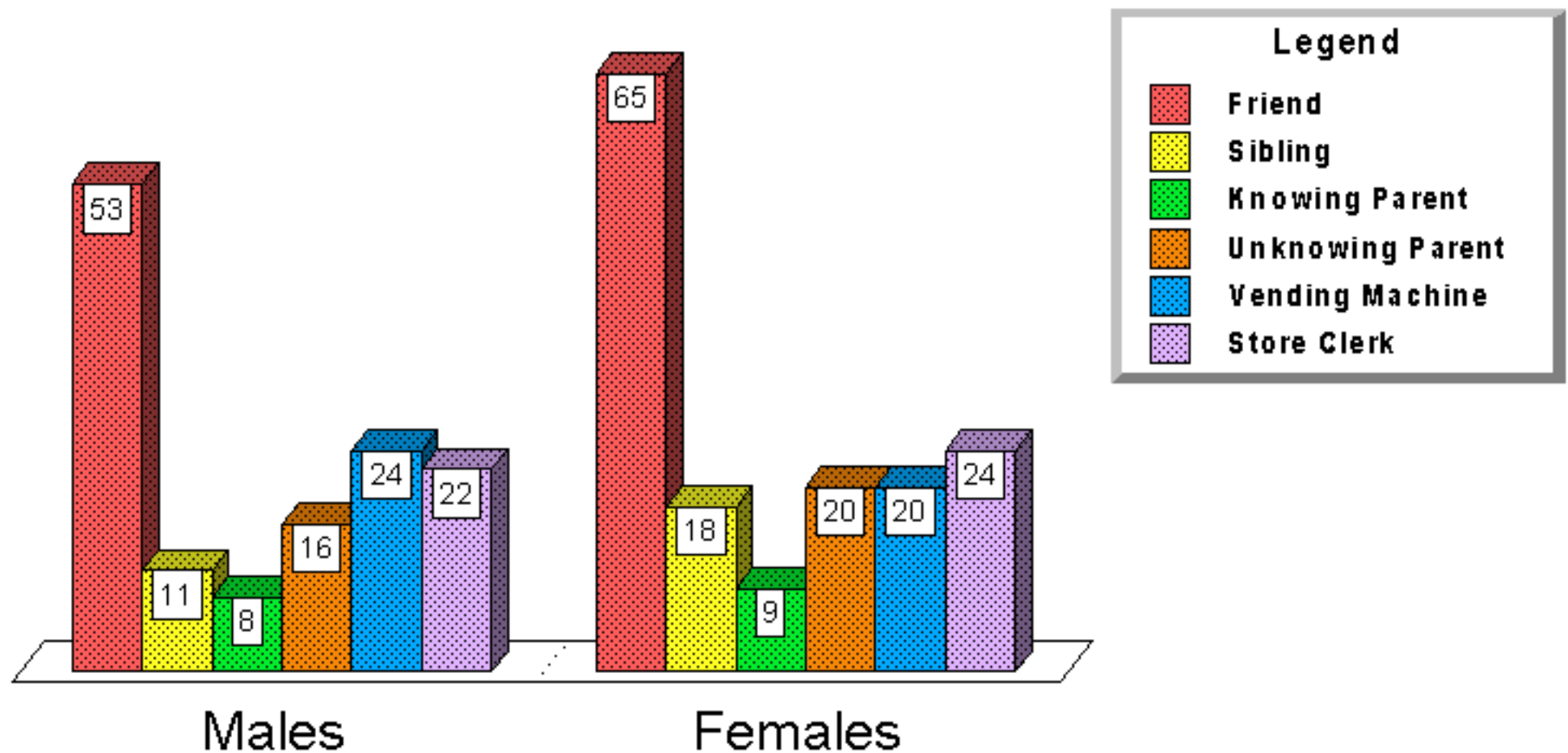
Source: University of Delaware Survey 1998



WHERE DO THEY GET CIGARETTES?

Among Delaware Eighth Graders 1998

(percentages)



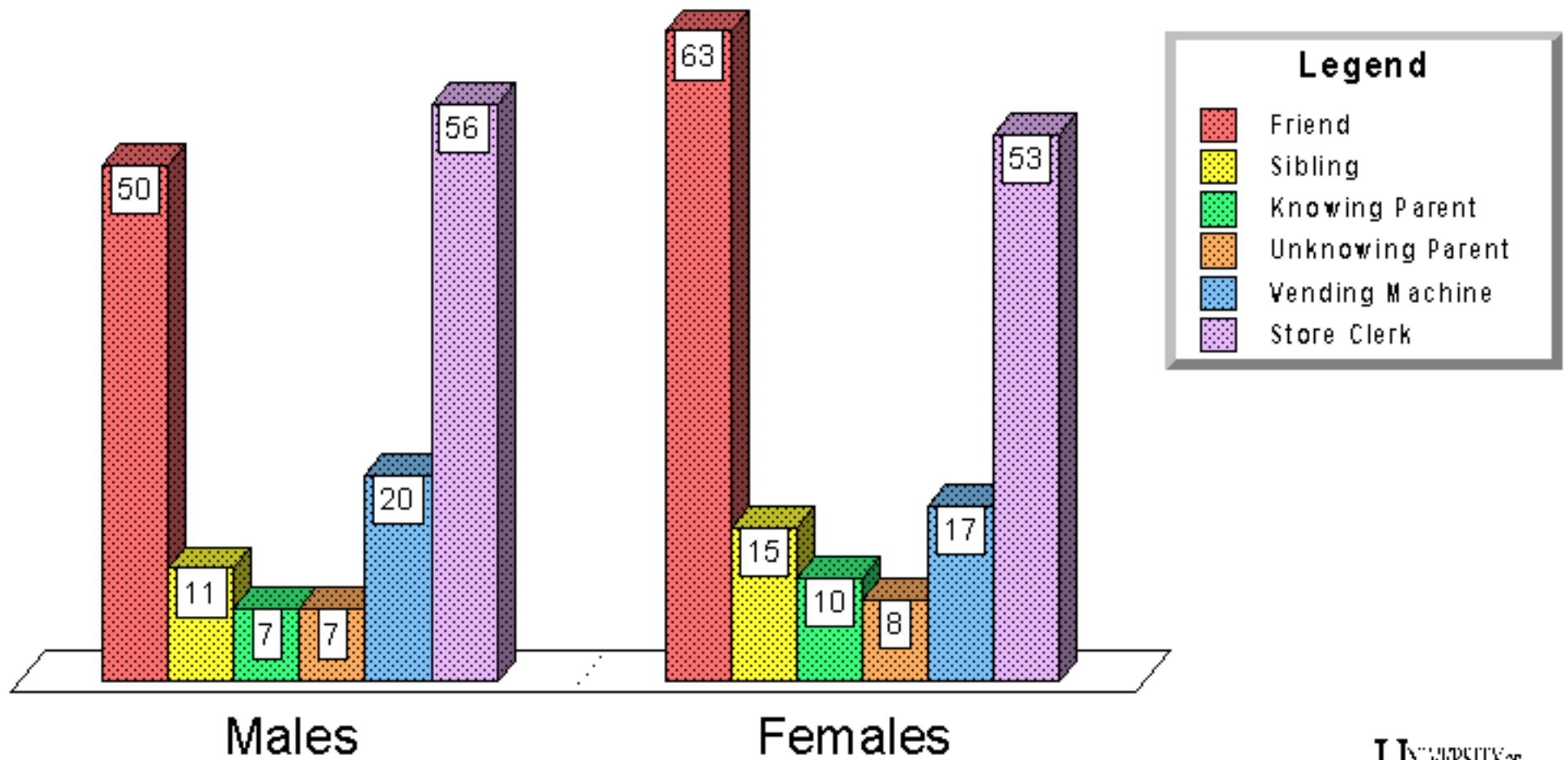
Source: University of Delaware Survey 1998



WHERE DO THEY GET CIGARETTES?

Among Delaware Eleventh Graders 1998

(percentages)



Source: University of Delaware Survey 1998



SUBSTANCE USE BY OTHERS AMONG DELAWARE 5TH GRADERS 1998
(Percentage responding 'yes')

	A lot of kids at school smoke cigarettes	A lot of kids at school drink alcohol	Any of your friends smoke cigarettes	Any of your friends drink alcohol	Any of your friends smoke marijuana
Statewide	15	9	26	13	7
Males	13	9	25	14	8
Females	16	9	26	12	5
New Castle	9	6	25	11	6
Males	9	5	26	13	8
Females	9	7	24	9	5
Kent	23	17	27	18	9
Males	22	17	29	19	13
Females	23	18	26	18	6
Sussex	15	6	26	11	5
Males	10	7	21	10	5
Females	20	4	31	11	6

Source: University of Delaware Survey 1998

SUBSTANCE USE BY OTHERS AMONG DELAWARE 8TH GRADERS 1998
(percentages)

	Most or all of the kids at school smoke cigarettes	Most or all of the kids at school get drunk at least once a week	Some of your friends smoke cigarettes	Some of your friends get drunk at least once a week	Some of your friends smoke marijuana
Statewide	49	17	48	26	33
Males	42	13	47	25	34
Females	55	20	49	28	32
New Castle	50	18	47	26	34
Males	44	13	44	24	33
Females	55	22	50	27	35
Kent	50	17	53	31	33
Males	46	13	54	32	37
Females	53	19	52	29	29
Sussex	46	14	44	23	32
Males	35	13	46	20	34
Females	59	15	42	27	29

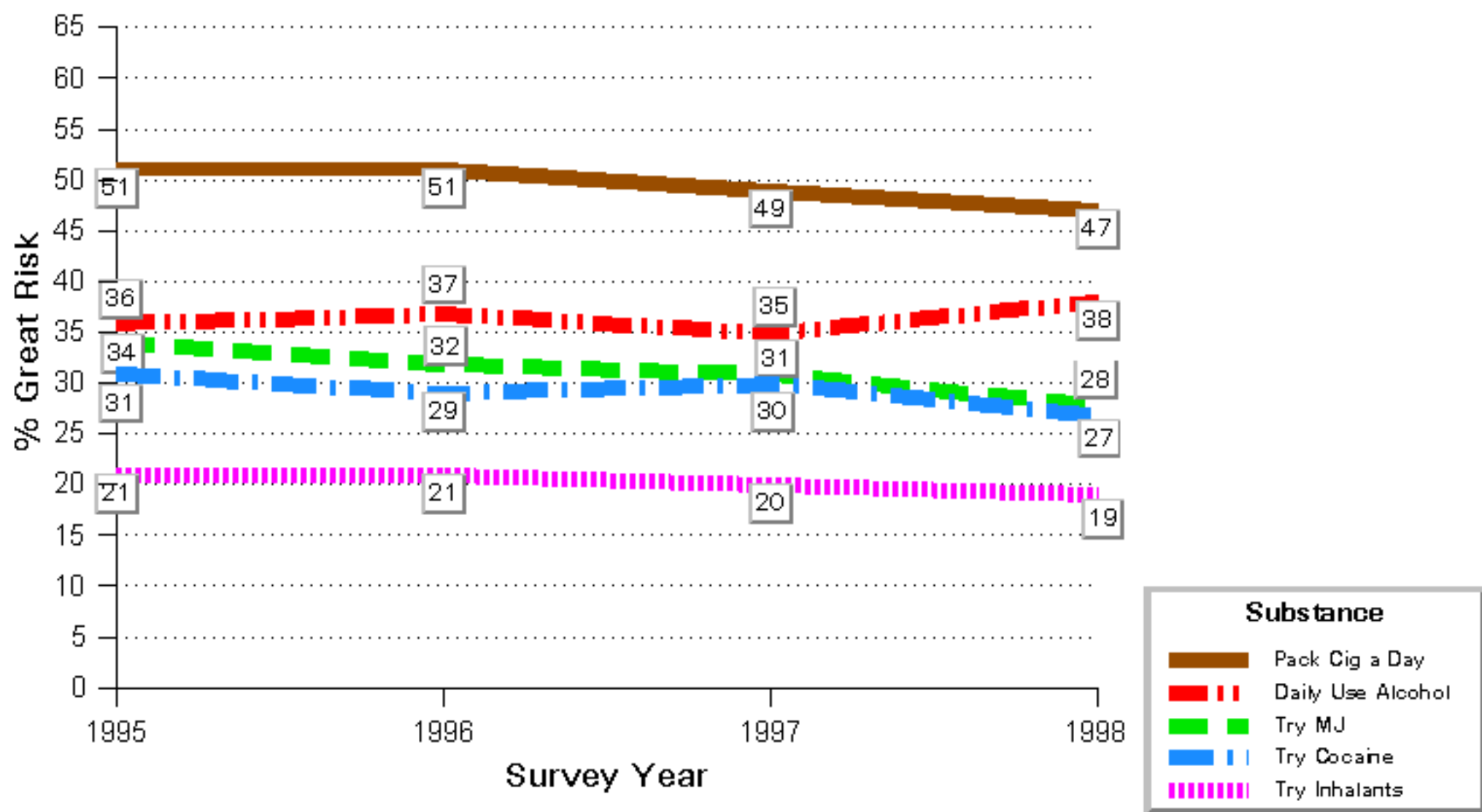
Source: University of Delaware Survey 1998

SUBSTANCE USE BY OTHERS AMONG DELAWARE 11TH GRADERS 1998
(Percentages)

	Most or all of the kids at school smoke cigarettes	Most or all of the kids at school get drunk at least once a week	Some of your friends smoke cigarettes	Some of your friends get drunk at least once a week	Some of your friends smoke marijuana
Statewide	66	44	60	51	51
Males	60	41	60	53	54
Females	70	47	61	50	49
New Castle	62	42	54	48	50
Males	58	38	54	48	52
Females	66	45	54	47	47
Kent	69	51	69	59	59
Males	61	47	69	59	61
Females	75	54	70	59	57
Sussex	69	44	64	52	48
Males	63	43	63	57	51
Females	73	45	64	48	46

Source: University of Delaware Survey 1998

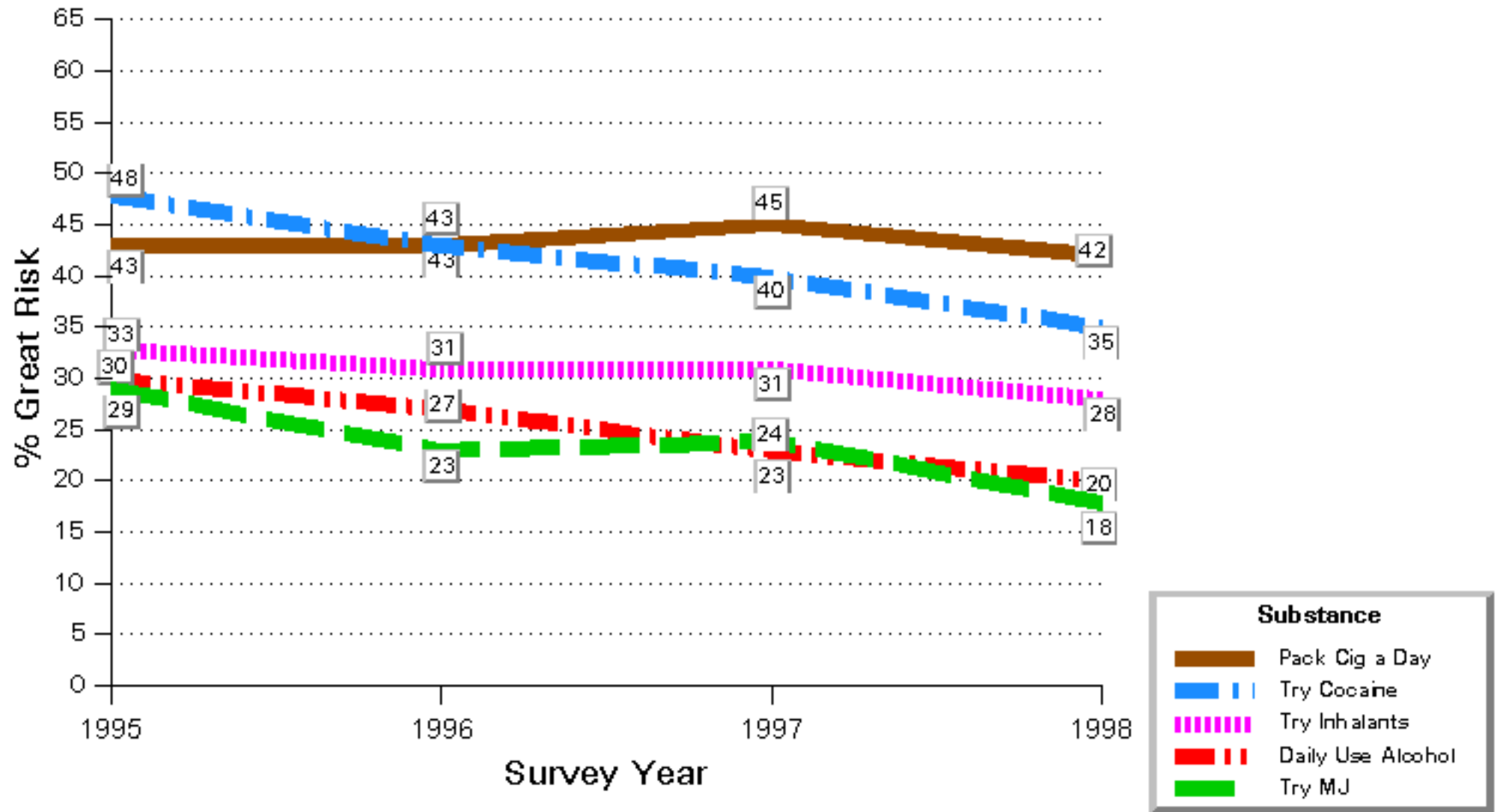
Trends in Delaware 5th Graders' Perception of Substance Use Great Risk*



*Source: University of Delaware Surveys 1995-1998.

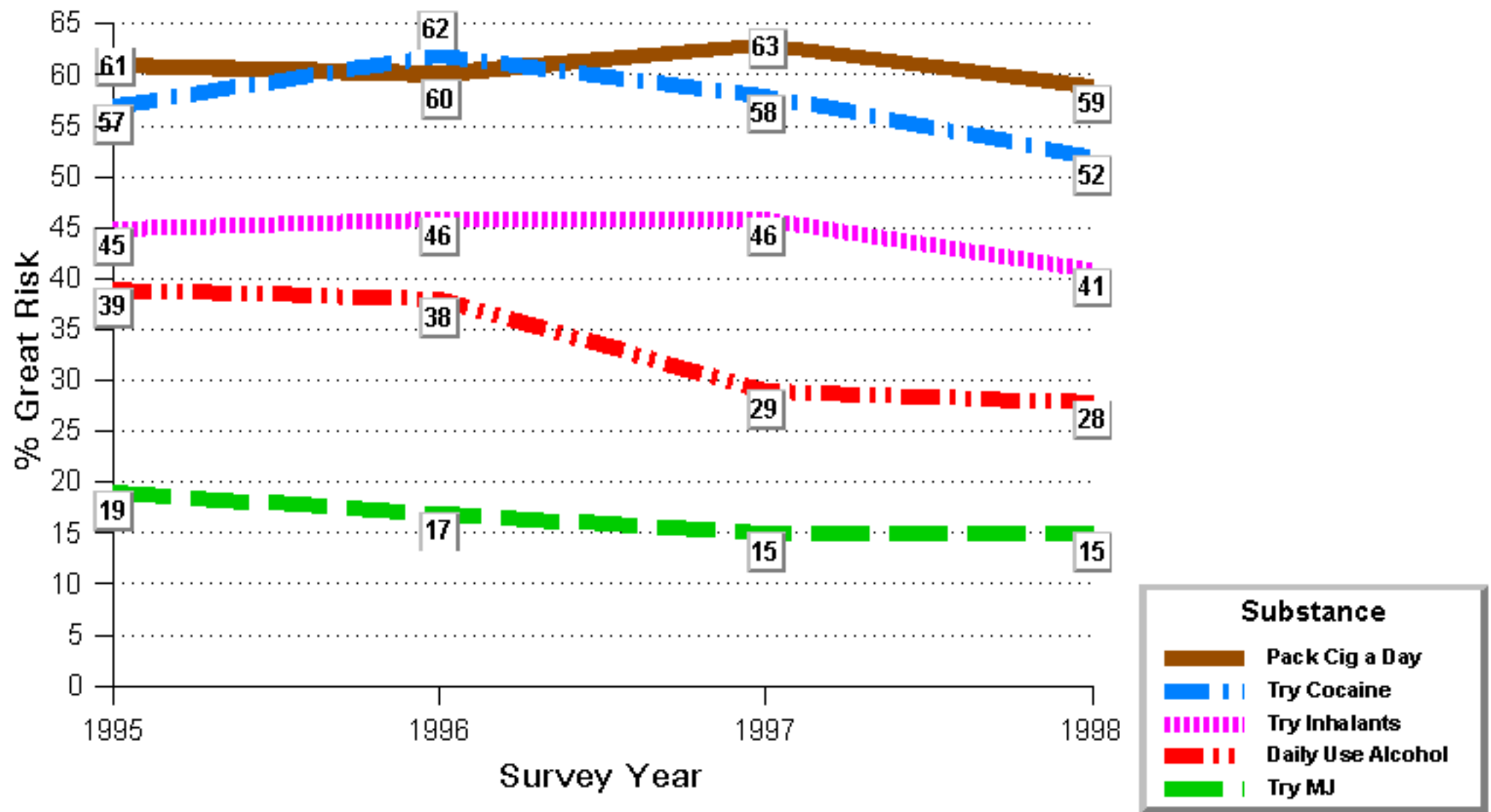


Trends in Delaware 8th Graders' Perception of Substance Use Great Risk*



*Source: University of Delaware Surveys 1995-1998.

Trends in Delaware 11th Graders' Perception of Substance Use Great Risk*



*Source: University of Delaware Surveys 1995-1998.



**RISK FACTORS FOR MARIJUANA USE AMONG DELAWARE 5TH GRADERS
WHO HAVE NOT TRIED MARIJUANA 1998**

(Percentage responding 'yes')

	No harm from trying marijuana once or twice	Any of your friends smoke marijuana?	If a friend gave you some would you smoke it?
Statewide	40	5	1
Males	47	6	2
Females	33	4	1
New Castle	35	5	3
Males	39	7	3
Females	30	4	3
Kent	46	6	-
Males	56	9	1
Females	37	4	-
Sussex	42	4	-
Males	51	3	-
Females	34	4	-

Note: (-) indicates less than one-half of one percent.

Source: University of Delaware Survey 1998

**RISK AND PROTECTIVE FACTORS FOR MARIJUANA USE AMONG
DELAWARE 8TH GRADERS WHO HAVE NOT TRIED MARIJUANA 1998**
(Percentages)

	RISK FACTORS		PROTECTIVE FACTORS (top 3 reasons given for not using*)		
	No or slight risk from trying marijuana once or twice	Some of your friends smoke marijuana?	Not healthy	Parents disapprove	Against my beliefs
Statewide	46	17	83	72	42
Males	49	17	84	74	56
Females	43	18	83	70	40
New Castle	54	17	84	67	38
Males	59	16	86	70	40
Females	49	18	83	65	34
Kent	41	18	80	74	41
Males	34	12	93	85	68
Females	42	20	79	77	46
Sussex	38	17	85	76	50
Males	37	16	85	78	49
Females	39	19	85	74	51

Note: * Students could check as many as apply from the following list: not health, makes you look and smell bad, don't like the taste, against my beliefs, parents would disapprove, friends would not like it, might lead to other drugs, too expensive.

Source: University of Delaware Survey 1998

RISK AND PROTECTIVE FACTORS FOR MARIJUANA USE AMONG DELAWARE 11TH GRADERS WHO HAVE NOT TRIED MARIJUANA 1998

(Percentages)

	RISK FACTORS		PROTECTIVE FACTORS (top 3 reasons given for not using*)		
	No or slight risk from trying marijuana once or twice	Some of your friends smoke marijuana?	Not healthy	Parents disapprove	Against my beliefs
Statewide	54	27	84	69	54
Males	58	30	82	69	55
Females	52	24	85	69	52
New Castle	55	28	84	68	53
Males	60	31	83	68	53
Females	50	24	85	67	52
Kent	59	34	76	74	55
Males	65	36	67	73	54
Females	54	31	83	75	57
Sussex	50	20	89	69	53
Males	47	23	90	68	59
Females	52	18	87	68	50

Note:* Students could check as many as apply from the following list: not healthy, makes you look and smell bad, don't like the taste, against my beliefs, parents would disapprove, friends would not like it, might lead to other drugs, too expensive.

Source: University of Delaware Survey 1998

SCHOOL FIGHTING AMONG DELAWARE 5TH GRADERS 1998

(percentage responding 'yes')

	Fighting is a problem at this school	Been in a fight at school this year that you didn't start
Statewide	59	41
Males	60	52
Females	58	32
New Castle	68	46
Males	64	56
Females	71	37
Kent	61	44
Males	66	58
Females	56	33
Sussex	40	30
Males	43	39
Females	37	22

Source: University of Delaware Survey 1998

SCHOOL FIGHTING AMONG DELAWARE 8TH GRADERS 1998

(Percentage responding "often" or "most of the time")

	Student violence is a problem at this school "some of the time" or more often	Worry about being attacked or robbed during school or on school grounds "some of the time" or more often	Take some kind of weapon to school or a school event this year
Statewide	53	10	4
Males	54	12	6
Females	53	8	2
New Castle	54	10	4
Males	53	11	7
Females	53	8	1
Kent	57	11	4
Males	57	14	6
Females	56	9	1
Sussex	50	9	3
Males	52	12	2
Females	47	5	4

Source: University of Delaware Survey 1998

SCHOOL FIGHTING AMONG DELAWARE 11TH GRADERS 1998

(percentage responding "often" or "most of the time")

	Student violence is a problem at this school "some of the time" or more often	Worry about being attacked or robbed during school or on school grounds "some of the time" or more often	Take some kind of weapon to school or a school event this year
Statewide	47	10	5
Males	44	12	9
Females	49	8	2
New Castle	50	12	5
Males	50	14	8
Females	50	11	2
Kent	39	7	6
Males	30	10	12
Females	45	6	1
Sussex	48	7	5
Males	44	9	8
Females	51	6	2

Source: University of Delaware Survey 1998

SCHOOL SAFETY AMONG DELAWARE 5TH GRADERS 1998

(Percentage responding 'yes')

	Feel safe in my school	Stay away from parts of school to avoid trouble	Worry about being attacked or robbed before or after school	Kids feel safe on the school bus
Statewide	88	63	18	76
Males	85	62	17	76
Females	91	64	20	76
New Castle	84	60	20	71
Males	81	58	18	72
Females	87	62	21	70
Kent	88	67	19	75
Males	85	67	20	75
Females	92	67	17	74
Sussex	94	64	16	86
Males	93	64	12	86
Females	95	65	20	87

Source: University of Delaware Survey 1998

SCHOOL SAFETY AMONG DELAWARE 8TH GRADERS 1998

(Percentage responding "often" or "most of the time")

	Feel safe in my school	Stay away from parts of school to avoid trouble	Worry about being attacked or robbed before or after school	Kids feel safe on the school bus
Statewide	78	34	5	69
Males	76	34	5	70
Females	80	34	4	68
New Castle	73	37	8	61
Males	71	35	8	59
Females	74	39	7	63
Kent	79	34	4	69
Males	74	32	6	70
Females	81	35	3	68
Sussex	83	31	2	77
Males	82	35	2	80
Females	85	27	2	75

Note: Response categories were:

- most of the time
- often
- some of the time
- not often
- never

Source: University of Delaware Survey 1998

SCHOOL SAFETY AMONG DELAWARE 11TH GRADERS 1998

(percentage responding "often" or "most of the time")

	Feel safe in my school	Stay away from parts of school to avoid trouble	Worry about being attacked or robbed before or after school	Kids feel safe on the school bus
Statewide	81	21	4	63
Males	82	20	4	63
Females	80	22	3	63
New Castle	79	19	4	60
Males	80	19	4	59
Females	78	18	4	62
Kent	81	23	2	70
Males	82	21	3	71
Females	80	24	1	69
Sussex	83	24	3	62
Males	83	22	5	64
Females	83	26	2	62

Note: Response categories were:

- most of the time
- often
- some of the time
- not often
- never

Source: University of Delaware Survey 1998

SCHOOL BEHAVIOR FOR DELAWARE 5TH GRADERS 1998

(Percentage responding 'yes')

	Most kids at this school obey the teachers	Kids at this school are well-behaved in class	Bad behavior of some kids at this school keep teachers from teaching kids who want to learn
Statewide	64	49	72
Males	62	49	70
Females	66	50	73
New Castle	55	43	77
Males	52	44	76
Females	58	43	78
Kent	68	48	70
Males	66	44	66
Females	70	52	73
Sussex	77	60	64
Males	77	63	63
Females	77	58	66

Source: University of Delaware Survey 1998

SCHOOL BEHAVIOR FOR DELAWARE 8TH GRADERS 1998

(Percentage responding "often" or "most of the time")

	Students treat teachers with respect	Kids at this school are well-behaved in public (classes, assemblies, cafeterias)	Students are bullied by other students when teachers not around	Misbehavior of some kids at this school keep teachers from teaching kids who want to learn
Statewide	19	28	40	46
Males	22	28	40	47
Females	17	29	38	46
New Castle	20	26	40	49
Males	25	25	43	49
Females	15	28	36	50
Kent	19	27	39	40
Males	22	25	38	41
Females	17	28	39	40
Sussex	19	33	40	47
Males	18	34	36	48
Females	19	31	43	45

Note: Response categories were:

- most of the time
- often
- some of the time
- not often
- never

Source: University of Delaware Survey 1998

SCHOOL BEHAVIOR FOR DELAWARE 11TH GRADERS 1998

(Percentage responding "often" or "most of the time")

	Students treat teachers with respect	Kids at this school are well-behaved in public (classes, assemblies, cafeterias)	Students are bullied by other students when teachers not around	Misbehavior of some kids at this school keep teachers from teaching kids who want to learn
Statewide	22	33	19	30
Males	25	36	20	30
Females	21	32	18	30
New Castle	20	29	18	32
Males	21	32	18	31
Females	19	26	17	32
Kent	27	38	17	22
Males	34	40	16	20
Females	21	37	17	23
Sussex	24	37	22	32
Males	25	40	26	35
Females	23	36	19	30

Note: Response categories were:

- most of the time
- often
- some of the time
- not often
- never

Source: University of Delaware Survey 1998

RIDING IN A CAR WITH A DRINKING DRIVER AMONG DELAWARE EIGHTH GRADERS 1995, 1998
(Percentages)

	IN LIFETIME		IN PAST YEAR		IN PAST MONTH	
	1995	1998	1995	1998	1995	1998
Statewide	43	43	28	28	15	15
Males	44	42	29	28	15	15
Females	42	43	26	28	15	15
New Castle	40	42	26	27	13	14
Males	39	41	25	27	11	14
Females	42	42	26	27	14	14
Kent	47	44	31	28	19	15
Males	56	46	42	30	24	17
Females	39	42	21	27	15	14
Sussex	46	43	31	28	18	15
Males	46	41	30	27	17	15
Females	47	45	32	29	19	15

Source: University of Delaware Surveys 1995, 1998

**RIDING IN A CAR WITH A DRINKING DRIVER AMONG DELAWARE
ELEVENTH GRADERS 1995, 1998**
(Percentages)

	IN LIFETIME		IN PAST YEAR		IN PAST MONTH	
	1995	1998	1995	1998	1995	1998
Statewide	43	50	30	34	14	14
Males	43	49	30	34	16	16
Females	43	50	30	34	12	13
New Castle	38	48	25	30	10	13
Males	37	48	25	32	12	13
Females	38	47	25	28	9	14
Kent	50	54	38	39	20	16
Males	50	55	36	40	20	20
Females	50	52	39	38	19	14
Sussex	49	50	35	37	16	14
Males	52	47	40	34	21	20
Females	46	52	31	38	13	11

Source: University of Delaware Surveys 1995, 1998

**RIDING IN A CAR WITH A MARIJUANA USING DRIVER AMONG DELAWARE
EIGHTH GRADERS 1995,1998**
(Percentages)

	IN LIFETIME		IN PAST YEAR		IN PAST MONTH	
	1995	1998	1995	1998	1995	1998
Statewide	25	29	19	20	12	13
Males	25	29	20	20	13	13
Females	26	28	18	20	10	13
New Castle	25	30	18	21	10	15
Males	25	28	19	21	11	14
Females	26	31	18	21	10	15
Kent	20	29	14	22	11	13
Males	25	34	20	25	14	15
Females	16	25	10	19	8	10
Sussex	30	26	24	18	15	11
Males	26	25	21	16	15	10
Females	35	25	26	18	15	12

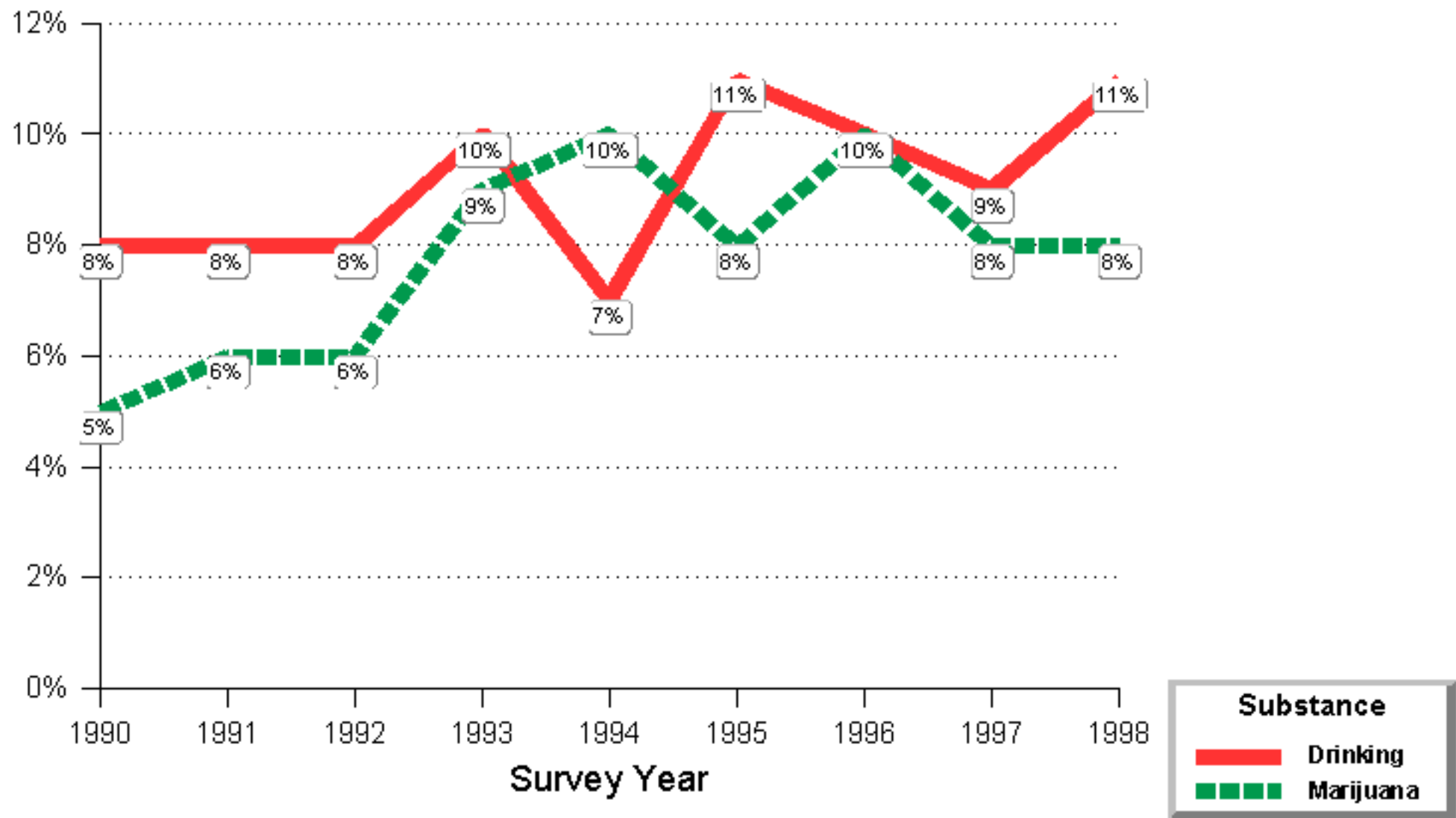
Source: University of Delaware Surveys 1995, 1998

**RIDING IN A CAR WITH A MARIJUANA USING DRIVER AMONG DELAWARE
ELEVENTH GRADERS 1995, 1998**
(Percentages)

	IN LIFETIME		IN PAST YEAR		IN PAST MONTH	
	1995	1998	1995	1998	1995	1998
Statewide	40	48	33	36	19	20
Males	46	46	37	37	24	25
Females	36	50	30	35	15	17
New Castle	42	46	35	32	20	19
Males	47	43	39	32	25	22
Females	38	48	32	32	15	16
Kent	41	51	33	41	20	26
Males	43	54	34	46	25	34
Females	39	50	32	37	18	20
Sussex	35	50	26	39	14	19
Males	44	47	33	40	20	25
Females	29	52	22	39	10	15

Source: University of Delaware Surveys 1995, 1998

Trends in Delaware 11th Grader Report of Drinking and Driving,* 1990-1998 and Report of Smoking Marijuana and Driving,* 1990-1998



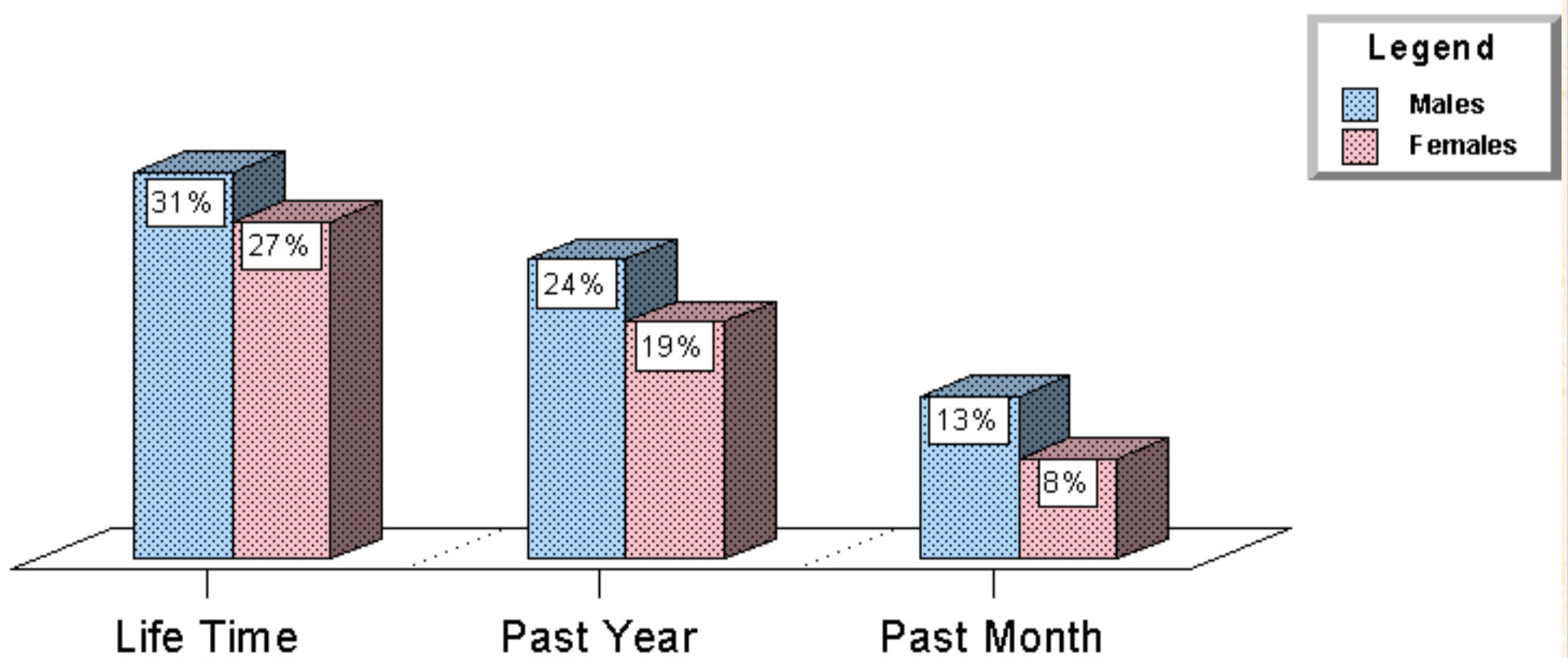
*Source: Data Base/ DiagnosticsPlus (1989 - 1993); Department of Public Instruction 1994; University of Delaware Surveys 1995-1998.

**DRINKING AND DRIVING AMONG DELAWARE ELEVENTH GRADERS 1995,
1998**
(Percentages)

	IN LIFETIME		IN PAST YEAR		IN PAST MONTH	
	1995	1998	1995	1998	1995	1998
Statewide	28	28	22	21	11	10
Males	34	31	28	24	14	13
Females	24	27	18	19	9	8
New Castle	26	25	20	18	10	10
Males	32	27	25	20	12	11
Females	22	23	17	16	9	8
Kent	32	30	27	23	16	9
Males	34	31	32	26	19	15
Females	31	30	24	20	13	5
Sussex	28	33	21	26	10	11
Males	42	37	31	30	14	14
Females	19	30	15	22	6	8

Source: University of Delaware Surveys 1995, 1998

**DRINKING AND DRIVING
Among Delaware Eleventh Graders 1998**

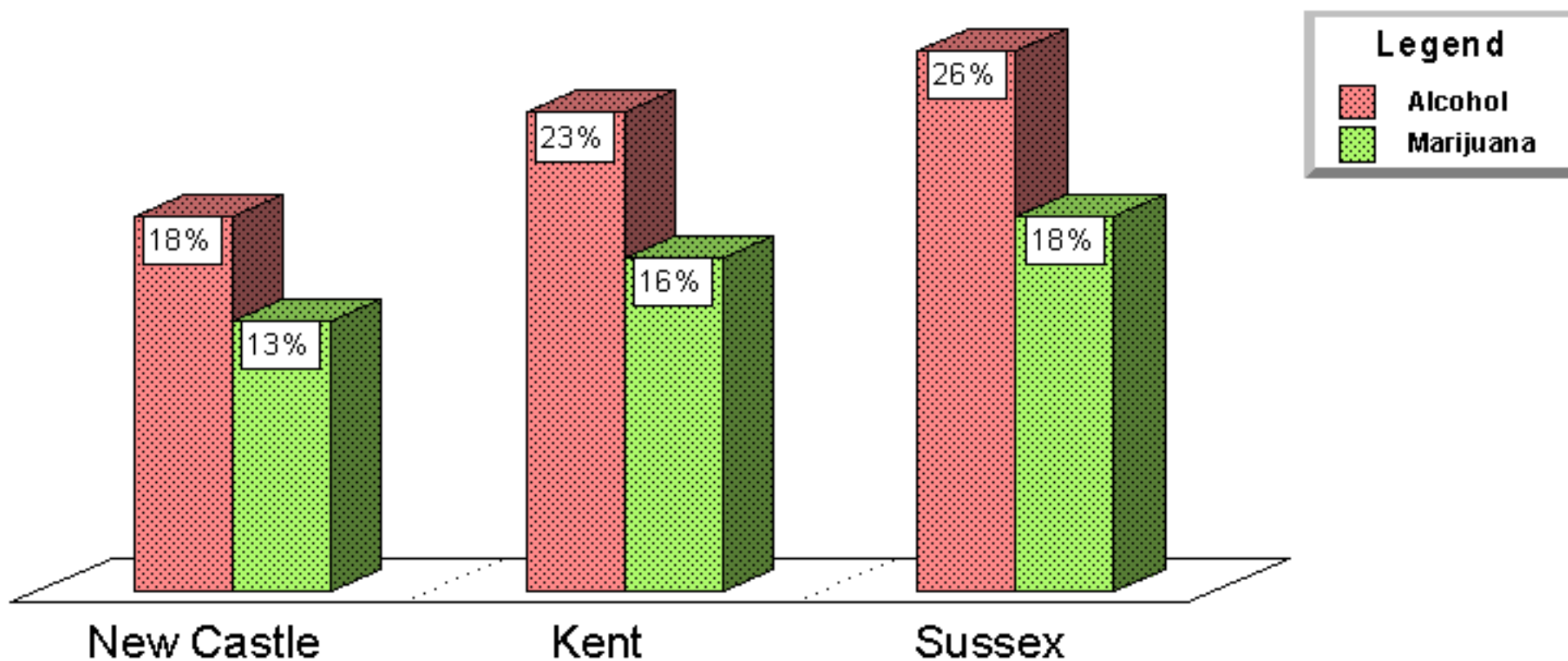


Source: University of Delaware Survey 1998



PAST YEAR DRUG USE AND DRIVING BY COUNTY

Among Delaware Eleventh Graders 1998

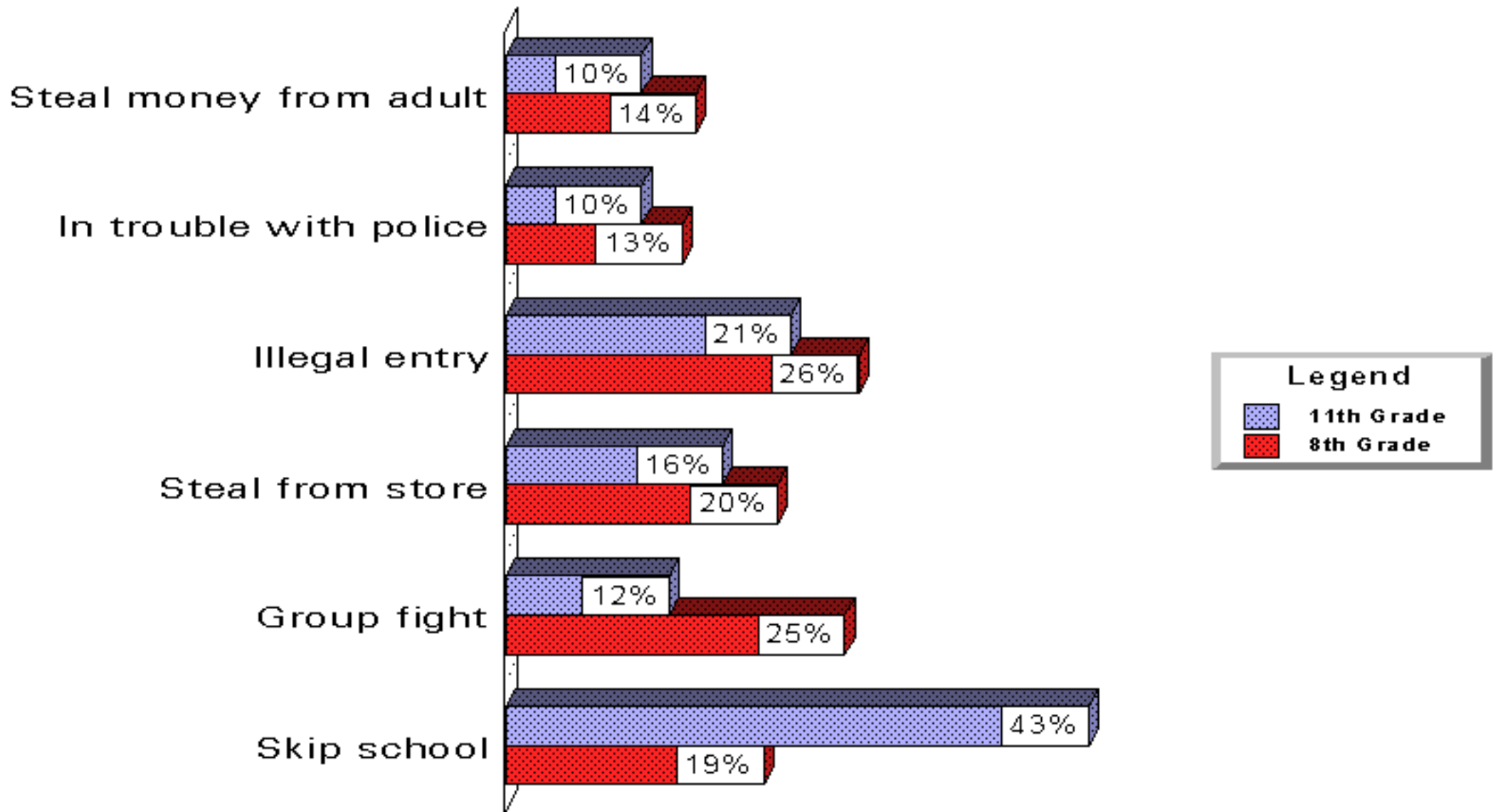


Source: University of Delaware Survey 1998



SELF-REPORTS OF PAST DELINQUENT BEHAVIORS

Among Delaware Eighth & Eleventh Graders 1998
(percentages)



Source: University of Delaware Survey 1998



**PAST MONTH SUBSTANCE USE AMONG DELAWARE 8TH GRADERS
BY PAST YEAR DELINQUENT ACTIVITIES 1998**
(Percentages)

	COMMITTED ACT IN PAST YEAR											
	In a Group Fight		Steal from Store		Illegal Entry		Trouble with Police		Skip School		Steal money from Adult	
	Yes***	No	Yes***	No	Yes***	No	Yes***	No	Yes***	No	Yes***	No
Past Month Cigarette Use												
Yes	45	17	59	16	42	18	54	20	53	18	49	20
No	55	83	41	84	58	82	46	80	47	82	51	80
Past Month Alcohol Use												
Yes	50	22	60	21	47	22	56	25	59	22	48	26
No	50	78	40	79	53	78	44	75	41	78	52	74
Past Month Marijuana Use												
Yes	38	12	48	12	34	13	47	14	49	12	32	17
No	62	88	52	88	66	87	53	86	51	88	68	83
Total Percent	25	75	20	80	26	74	14	86	19	81	14	86

Note: ;*** p < .001, corrected for continuity
Source: University of Delaware Survey 1998

**PAST MONTH SUBSTANCE USE AMONG DELAWARE 11TH GRADERS
BY PAST YEAR DELINQUENT ACTIVITIES 1998**
(Percentages)

	COMMITTED ACT IN PAST YEAR											
	In a Group Fight		Steal from Store		Illegal Entry		Trouble with Police		Skip School		Steal money from Adult	
	Yes***	No	Yes***	No	Yes***	No	Yes***	No	Yes***	No	Yes***	No
Past Month Cigarette Use												
Yes	54	30	61	28	54	28	61	30	52	19	55	31
No	46	70	39	72	46	72	39	70	48	81	45	69
Past Month Alcohol Use												
Yes	76	43	69	43	66	42	75	44	64	33	65	45
No	24	57	31	57	34	58	25	56	36	67	35	55
Past Month Marijuana Use												
Yes	46	22	50	20	43	20	47	23	39	14	43	23
No	54	78	50	80	57	80	53	77	61	86	57	77
Total Percent	12	88	16	84	21	79	9	91	43	57	10	90

Note: *** p < .001, corrected for continuity
Source: University of Delaware Survey 1998

ESTIMATES OF DRUG DEPENDENCE AND ABUSE IN THE PAST YEAR AMONG DELAWARE 8TH GRADERS 1998

(Percentages)

	Meets Criteria for Dependence	Does Not Meet Criteria for Dependence but Meets Criteria for Abuse	Past Year Use but no Dependence or Abuse	No Past Year Use
Cigarette Use	4	4	28	64
Males	2	4	26	68
Females	6	4	30	60
Alcohol Use	4	14	28	54
Males	4	13	27	56
Females	4	14	29	52
Other Drug Use	2	3	31	64
Males	2	3	30	65
Females	2	4	33	62

Notes: * Categories are mutually exclusive and sum to 100% with rounding

[See explanation of Dependence and Abuse](#)

Source: University of Delaware Survey 1998

**ESTIMATES OF DRUG DEPENDENCE AND ABUSE IN THE PAST YEAR
AMONG DELAWARE 11TH GRADERS 1998**
(percentages)

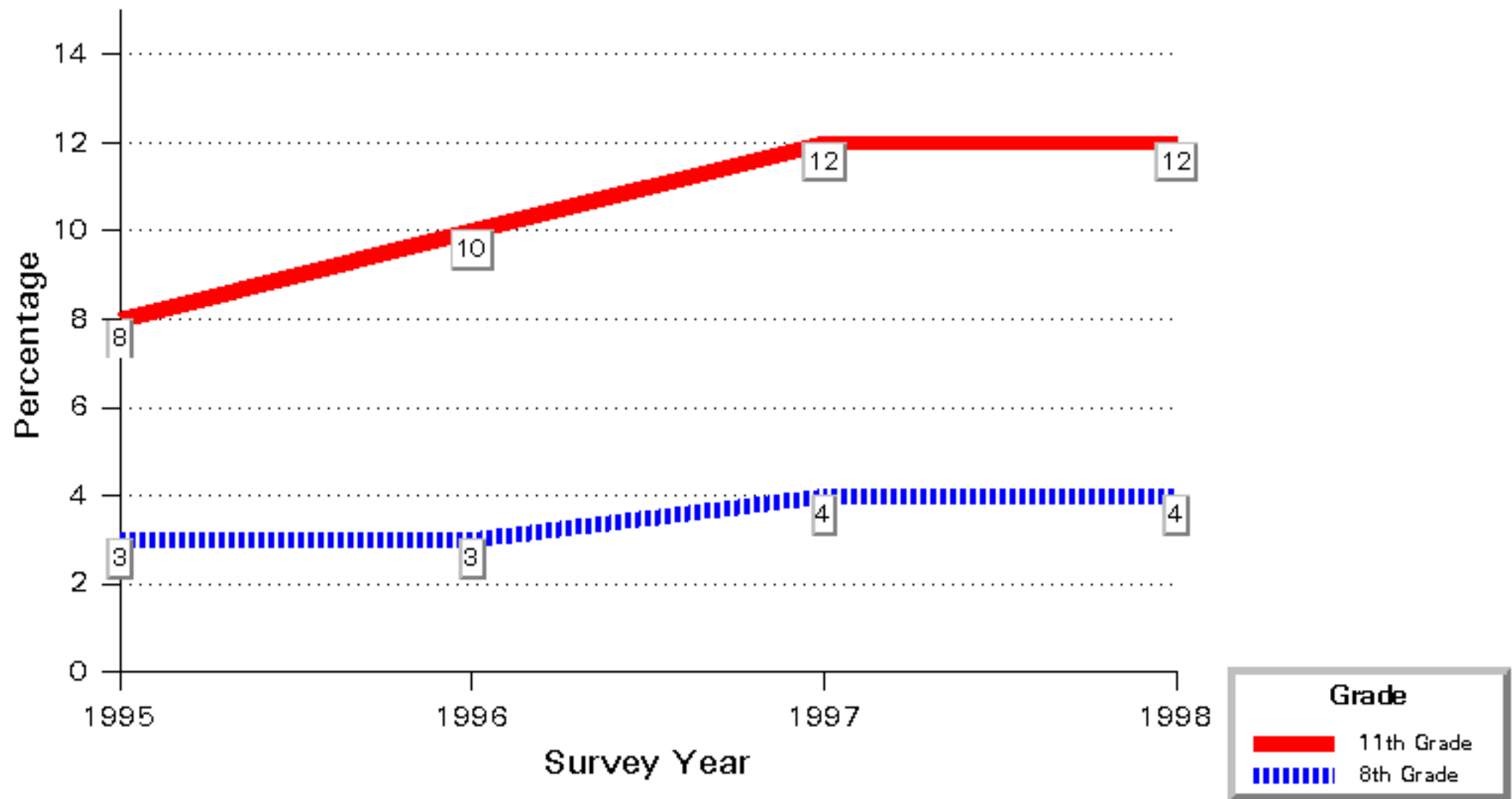
	Meets Criteria for Dependence	Does Not Meet Criteria for Dependence but Meets Criteria for Abuse	Past Year Use but no Dependence or Abuse	No Past Year Use
Cigarette Use	12	2	30	56
Males	10	2	30	58
Females	14	2	29	55
Alcohol Use	12	30	28	31
Males	12	30	22	36
Females	11	29	33	27
Other Drug Use	7	12	26	54
Males	9	13	23	55
Females	6	11	29	53

Notes: * Categories are mutually exclusive and sum to 100% with rounding

[See explanation of Dependence and Abuse](#)

Source: University of Delaware Survey 1998

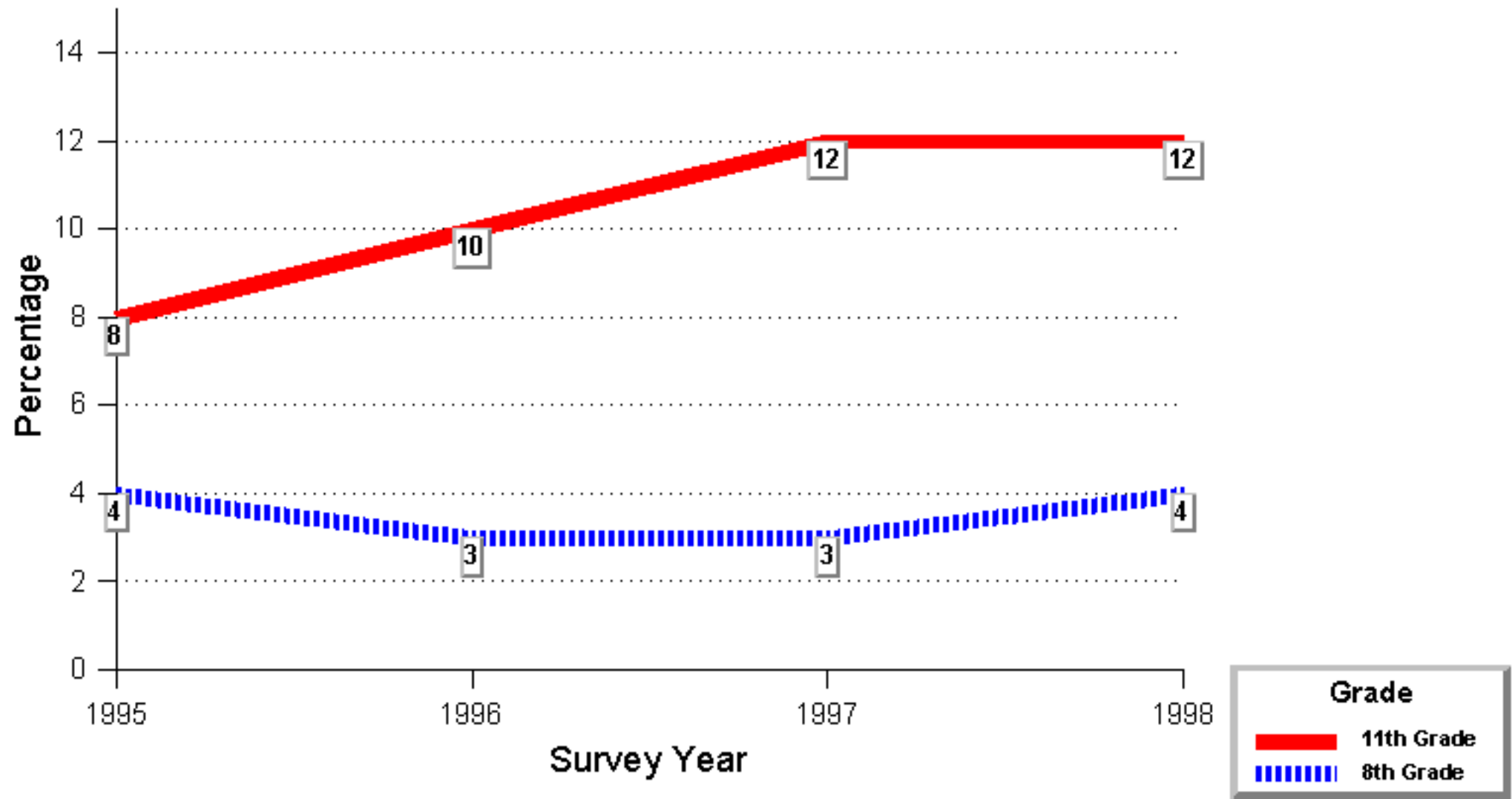
Trends in Delaware 8th and 11th Graders' Meeting Criteria of Cigarette Use Dependence*



* Note: Substance Dependence is defined on page 84

Source: University of Delaware Surveys 1995-1998.

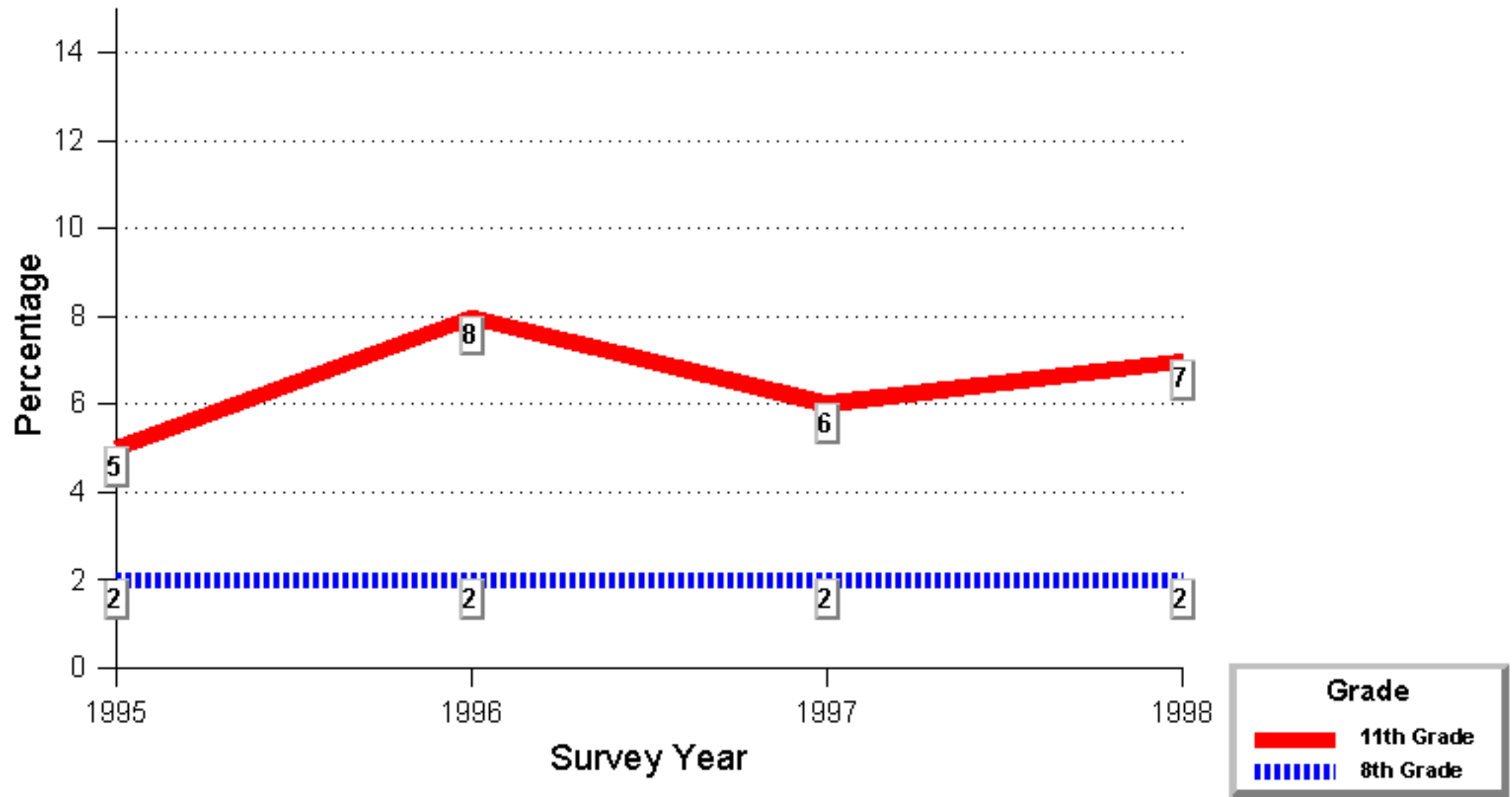
Trends in Delaware 8th and 11th Graders' Meeting Criteria of Alcohol Use Dependence*



* Note: Substance Dependence is defined on page

Source: University of Delaware Surveys 1995-1998.

Trends in Delaware 8th and 11th Graders' Meeting Criteria of Other Drug Use Dependence*



* Note: Substance Dependence is defined on page

Source: University of Delaware Surveys 1995-1998.



EXPLANATION OF DEPENDENCE AND ABUSE ESTIMATES

The Diagnostic and Statistical Manual-IV describes two general categories of Psychoactive Substance Abuse Disorders, Psychoactive Substance Dependence and a residual category of Psychoactive Substance Abuse. These criteria were adopted for assessment and diagnosis of adult populations, so their application to adolescent samples provides only a rough estimate of their need for treatment. DSM criteria are usually evaluated in personal interviews, but researchers have estimated prevalence of alcohol and drug dependency and abuse by applying the criteria to survey questions on alcohol and drug problems (Epstein and Gfroerer 1994). Although the correspondence between the DSM-IV criteria and questionnaire indicators is only approximate, it does provide indication of alcohol involvement for Delaware youth that goes beyond standard measures of prevalence.

Criteria for Substance Abuse Dependence (at least three of the following during the past year):

1. tolerance, as indicated by (a) a need for markedly increased amounts of the substance to achieve intoxication or desired effect
2. withdrawal, as indicated by the characteristic withdrawal syndrome for the substance
3. the substance is often taken in larger amounts or over a longer period than was intended
4. there is a persistent desire or unsuccessful efforts to cut down or control substance use
5. a great deal of time is spent in activities necessary to obtain the substance, use the substance, or recover from its effects
6. important social, occupational, or recreational activities are given up or reduced because of substance use

Criteria for Substance Abuse: (Not meeting the criteria for Dependence, but has used alcohol in the past year and: displays a maladaptive pattern of substance use leading to clinically significant impairment or distress, as indicated by one (or more) of the following occurring within the past 12 months:

1. recurrent substance use resulting in a failure to fulfill major role obligations at work, school, or home
2. recurrent substance use in situations in which it is physically hazardous
3. continued substance use despite having persistent or recurrent social or interpersonal problems caused by or exacerbated by the effects of the substance

American Psychiatric Association. 1994. Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition. Washington, D.C.: American Psychiatric Association.

Epstein, J. and J. Gfroerer. 1994. "Estimating Substance Abuse Treatment Need from the NHSDA," Proceedings of the Section on Survey Research Methods of the American Statistical Association.

Robbins, C.A. 1995. Adolescent Treatment Needs Assessment Protocol. Delaware DHSS.

**PAST MONTH SUBSTANCE USE AMONG DELAWARE FIFTH GRADERS
REPORTING GETTING ALONG WITH PARENTS 1998**
(Percentages)

	Get Along Well With Parents	
	Yes n= 969 (93%)	No n=73 (7%)
Past Month Cigarette Use*		
Yes	2	15
No	98	85
Past Month Alcohol Use***		
Yes	3	10
No	97	90
Past Month Marijuana Use***		
Yes	-	3
No	100	97

Note: * p <.05, *** p <.01 Chi-Sq statistic corrected for continuity

- (-) indicates less than one half of one percent.

Source: University of Delaware Survey 1998

**PAST MONTH SUBSTANCE USE AMONG DELAWARE 8TH GRADERS BY
GETTING ALONG WELL WITH PARENTS 1998**
(Percentages)

	Get Along Well With Parents		
	Never/Not Often	Sometimes/Often	Most Times
	n=72 (6%)	n=532 (44%)	n=616 (51%)
Past Month Cigarette Use***			
Yes	46	31	15
No	54	69	85
Past Month Alcohol Use***			
Yes	41	35	22
No	59	65	78
Past Month Marijuana Use***			
Yes	35	25	12
No	65	75	88

Note: ** p < .01

 *** p < .001

Source: University of Delaware Survey 1998

**PAST MONTH SUBSTANCE USE AMONG DELAWARE 11TH GRADERS BY
GETTING ALONG WELL WITH PARENTS 1998**
(Percentages)

	Get Along Well With Parents		
	Never/Not Often n=48 (4%)	Sometimes/Often n=519 (44%)	Most Times n=615 (52%)
Past Month Cigarette Use***			
Yes	53	37	29
No	47	63	71
Past Month Alcohol Use			
Yes	57	49	44
No	43	51	56
Past Month Marijuana Use*			
Yes	33	28	22
No	67	72	78

Note: *** p < .001

 *p < .05

Source: University of Delaware Survey 1998

**PAST MONTH SUBSTANCE USE AMONG DELAWARE 8TH GRADERS BY
ARGUING OR FIGHTING WITH PARENTS 1998**
(Percentages)

	Argue or Fight With Parents		
	Few Times/Year or Less Often n=552 (45%)	1-8 Times/Month n=496 (41%)	Almost Everyday n=168 (14%)
Past Month Cigarette Use***			
Yes	14	31	37
No	86	69	63
Past Month Alcohol Use***			
Yes	19	35	43
No	81	65	57
Past Month Marijuana Use***			
Yes	13	22	28
No	87	78	72

Note: *** p < .001

Source: University of Delaware Survey 1998

**PAST MONTH SUBSTANCE USE AMONG DELAWARE 11TH GRADERS BY
ARGUING OR FIGHTING WITH PARENTS 1998**
(Percentages)

	Argue or Fight With Parents		
	Few Times/Year or Less Often n=522 (44%)	1-8 Times/Month n=545 (47%)	Almost Everyday n=108 (9%)
Past Month Cigarette Use***			
Yes	26	36	54
No	74	64	46
Past Month Alcohol Use***			
Yes	40	51	60
No	60	49	40
Past Month Marijuana Use***			
Yes	20	27	38
No	80	73	62

Note: *** p < .001

Source: University of Delaware Survey 1998

**PAST MONTH SUBSTANCE USE AMONG DELAWARE 8TH GRADERS BY
TALKING WITH PARENTS ABOUT SCHOOL 1998**
(Percentages)

	Talk With Parents About School		
	Few Times/Year or Less Often n=371 (31%)	1-8 Times/Month n=447 (36%)	Almost Everyday n=393 (33%)
Past Month Cigarette Use***			
Yes	33	23	18
No	67	77	82
Past Month Alcohol Use***			
Yes	41	27	20
No	59	73	80
Past Month Marijuana Use***			
Yes	28	16	13
No	72	84	87

Note: ** p < .01

 *** p < .001

Source: University of Delaware Survey 1998

**PAST MONTH SUBSTANCE USE AMONG DELAWARE 11TH GRADERS BY
TALKING WITH PARENTS ABOUT SCHOOL 1998**
(Percentages)

	Talk With Parents About School		
	Few Times/Year or Less Often n=281 (24%)	1-8 Times/Month n=538 (46%)	Almost Everyday n=360 (30%)
Past Month Cigarette Use			
Yes	37	34	30
No	63	66	70
Past Month Alcohol Use			
Yes	52	46	44
No	48	54	56
Past Month Marijuana Use**			
Yes	32	25	20
No	68	75	80

Note: ** p < .01

Source: University of Delaware Survey 1998

**PAST MONTH SUBSTANCE USE AMONG DELAWARE 8TH GRADERS BY
TALKING WITH PARENTS ABOUT FUTURE PLANS 1998**
(Percentages)

	Talk With Parents About Future Plans		
	Few Times/Year or Less Often n=498 (41%)	1-8 Times/Month n=499 (42%)	Almost Everyday n= 200 (17%)
Past Month Cigarette Use***			
Yes	33	20	16
No	67	80	84
Past Month Alcohol Use***			
Yes	39	23	21
No	61	78	79
Past Month Marijuana Use***			
Yes	29	13	10
No	72	87	90

Note: ** p < .01

 *** p < .001

Source: University of Delaware Survey 1998

**PAST MONTH SUBSTANCE USE AMONG DELAWARE 11TH GRADERS BY
TALKING WITH PARENTS ABOUT FUTURE PLANS 1998**
(Percentages)

	Talk With Parents About Future Plans		
	Few Times/Year or Less Often n=312 (27%)	1-8 Times/Month n=624 (53%)	Almost Everyday n=237 (20%)
Past Month Cigarette Use*			
Yes	38	34	27
No	62	66	73
Past Month Alcohol Use*			
Yes	54	45	42
No	46	55	58
Past Month Marijuana Use*			
Yes	30	26	19
No	70	74	81

Note: * $p < .05$

Source: University of Delaware Survey 1998

**PAST MONTH SUBSTANCE USE AMONG DELAWARE 8TH GRADERS
REPORTING PARENTS VOLUNTEER AT SCHOOL 1998**
(Percentages)

	Parents Volunteer at School	
	Yes n=341 (28%)	No n=865 (72%)
Past Month Cigarette Use*		
Yes	20	26
No	80	74
Past Month Alcohol Use		
Yes	29	29
No	71	71
Past Month Marijuana Use		
Yes	15	20
No	85	80

Note: * p < .05

 ** p < .01

 *** p < .001, corrected for continuity

Source: University of Delaware Survey 1998

**PAST MONTH SUBSTANCE USE AMONG DELAWARE 11TH GRADERS
REPORTING PARENTS VOLUNTEER AT SCHOOL 1998**
(Percentages)

	Parents Volunteer at School	
	Yes n=370 (32%)	No n=803 (68%)
Past Month Cigarette Use**		
Yes	28	36
No	72	64
Past Month Alcohol Use		
Yes	49	46
No	51	54
Past Month Marijuana Use*		
Yes	21	27
No	79	73

Note: * $p < .05$

 ** $p < .01$, corrected for continuity

Source: University of Delaware Survey 1998

PAST MONTH SUBSTANCE USE AMONG DELAWARE 8TH GRADERS BY HOUSEHOLD MEMBERS WHO SMOKE 1998

(Percentages)

	Who In Your Household Smokes?			
	Parent n=569 (46%)	Sibling n=222 (18%)	Other n=	No One n=437 (39%)
Past Month Cigarette Use				
Yes	32	47	32	12
No	68	53	68	88
Past Month Alcohol Use				
Yes	35	48	36	18
No	65	52	64	82
Past Month Marijuana Use				
Yes	23	40	25	9
No	77	60	75	91

Note: Categories of household members who smoke are not mutually exclusive.

Source: University of Delaware Survey 1998

**PAST MONTH SUBSTANCE USE AMONG DELAWARE 11TH GRADERS BY
HOUSEHOLD MEMBERS WHO SMOKE 1998**
(Percentages)

	Who In Your Household Smokes?			
	Parent n=471 (40%)	Sibling n=202 (17%)	Other n=89 (8%)	No One n=552 (46%)
Past Month Cigarette Use				
Yes	39	52	42	26
No	61	48	58	74
Past Month Alcohol Use				
Yes	46	60	46	44
No	54	40	54	56
Past Month Marijuana Use				
Yes	28	35	28	21
No	72	65	72	79

Note: Categories of household members who smoke are not mutually exclusive.
Source: University of Delaware Survey 1998

Comparison of Recent National, Regional, and Delaware Estimates for Cigarettes, Alcohol, and Marijuana
(Percentages)

	CIGARETTES		ALCOHOL		MARIJUANA	
	Past Year	Past Month	Past Year	Past Month	Past Year	Past Month
Middle School						
1998 8th Grade MTF	*	19	44	23	17	10
1996 14-15 yr olds NHSDA	26	18	33	19	14	7
1998 7th-8th Grade New Jersey	42	*	57	*	21	*
1997 9th Grade Pennsylvania	*	31	*	35	*	17
1996 8th Grade Maryland	25	17	39	27	17	12
1997 8th Grade Delaware	35	22	47	27	24	15
1998 8th Grade Delaware	36	24	46	29	26	19
High School						
1998 12th Grade MTF	*	35	74	52	38	23
1996 16-17 yr old NHSDA	36	28	53	31	22	13
1995 11th Grade New Jersey	40	*	70	*	36	*
1997 12th Grade Pennsylvania	*	40	*	51	*	22
1996 12th Grade Maryland	39	32	71	52	41	27
1997 9-12th Grade YRBS-Delaware	*	35	*	47	*	29
1997 11th Grade Delaware	46	33	71	47	44	27
1998 11th Grade Delaware	44	33	69	47	42	25

Note: (*) indicates that no estimate is available.

Sources: 1998 Monitoring the Future Study (MTF), University of Michigan; 1996 National Household Survey on Drug Abuse (NHSDA), National Institute on Drug Abuse; 1998 8th Grade, The New Jersey Middle School Survey on Substance Use, Division of Addiction Services, New Jersey Department of Health and Social Services and 1995 11th Grade, Drug and Alcohol Use among New Jersey High School Students, New Jersey Department of Law and Public Safety; 1997 Pennsylvania Biennial Youth-Risk Survey, Diagnostics Plus, Inc.; 1996 Maryland Student Survey, University of Maryland; 1997 Youth Risk Behavior Surveillance Survey (YRBS), Centers for Disease Control; 1997 and 1998 Delaware Students Survey, University of Delaware.

SPONSORS OF THE STUDY:

The Delaware Prevention Coalition (DPC) is a statewide alcohol, tobacco, and other drug prevention effort funded in 1994 by the Center for Substance Abuse Prevention (CSAP), part of the federal Substance Abuse and Mental Health Services Administration (SAMHSA). Focusing on the prevention of Alcohol, Tobacco, and Other Drug Abuse (ATODA) in children, youth, and their families, the Coalition will work to strengthen youth, family and community resiliency factors by providing and facilitating local and statewide prevention programming. The core of the Coalition are four Partnerships: two existing Partnerships -- the New Castle County Community Partnership and the statewide Delaware Prevention Network -- and two emerging Partnerships -- the Strong Communities group in Sussex County and the Kent County Community Partnership. These Partnerships in collaboration with Supporting Partner agencies from government and social and health services have the mission of preventing and reducing substance abuse and strengthening families and communities in Delaware. The DPC is administered by the Office of Prevention in the Delaware Department of Services for Children Youth and Their Families. The CSAP grant to DPC calls for periodic surveys of student substance use.

The Coalition of Community Prevention Partnerships (CCPP) is an ATODA prevention coalition active in New Castle County, DE. It is led by the New Castle County Community Partnership (a former CSAP Partnership) and also includes IMPACT Tobacco Coalition, the Delaware Prevention Network-North, and the Wilmington Enterprise Community. This Coalition was funded in 1995 by CSAP. CCPP seeks to work through existing community groups and coalitions to provide training and programming support using coalition grant and participating partnership resources and expertise to assist communities.

The Center for Drug and Alcohol Studies (CDAS) at the University of Delaware was created in 1991. It has a mission of conducting research, providing training and service, and disseminating information on substance abuse. The Center is comprised of over twenty faculty, professional, graduate students and staff. Current studies include: the assessment of treatment alternatives for drug involved offenders; HIV prevention and education studies; the prevalence, causes and consequences of drug use in youth, adults, and the elderly; and the evaluation of community-based prevention and treatment programs. The CDAS is leading the evaluation of the Delaware Prevention Coalition and the new State Incentive Project. The CDAS is administratively located in the Department of Sociology and Criminal Justice. The Center is directed by Dr. James A. Inciardi.

The Center for Community Development and Family Policy (CCDFP) at the University of Delaware has grown dramatically since its creation in 1993. It has the mission of conducting research on the prevalence, causes and consequences of poverty and inequality in communities in Delaware and in the nation; training students and professionals; providing service to public, non-profit and private organizations in Delaware; and disseminating information about and solutions to community development and family problems. CCDFP has assisted over 300 organizations since 1996. It operates a Community Development Resource Center in Wilmington with support from a HUD grant and is expanding its Housing Capacity Building Program with support from the U.S. Department of Education. CCDFP has worked with the Center for Drug and Alcohol Studies in evaluating the Delaware Prevention Coalition and the two Centers will be working together in evaluating the new State Incentive Project. The CCDFP is part of the College of Human Resources, Education and Public Policy. The Center is directed by Dr. Timothy K. Barnekov.

→ Cigarettes are a gateway drug. For 5th, 8th, and 11th grade students, those who report past month cigarette use, as compared to those who do not, are significantly more likely to be past month users of alcohol, marijuana, and other illegal drugs. In fact, if an 8th or 11th grader is a current cigarette smoker, chances are better than 50/50 that she or he is also a current drinker and user of marijuana.

→ Cigarettes, alcohol, marijuana, and even cocaine are available to 5th graders -- one out of six 5th graders says it is easy to get cigarettes and one out of eight says it is easy to get cocaine. On the encouraging side, easy availability of all drugs to 5th graders has declined slightly since 1997.

→ When it comes to 8th and 11th graders, the majority of students know where to get cigarettes, alcohol, and marijuana. There are small decreases in getting cigarettes for 8th graders but no change for 11th graders.

→ Fifth graders report they were most likely to get cigarettes from friends or a vending machine; 8th graders from friends; and 11th graders from friends or from a store clerk. Getting cigarettes from vending machines declined for the second year in a row for each of 5th, 8th, and 11th graders. Getting cigarettes from store clerks went down for 5th graders.

→ 97% of 5th graders, 91% of 8th graders, and 85% of 11th graders report having had some drug education in school (DARE is part of the 5th Grade curriculum statewide). Eleventh graders have improved significantly, it was only 50% in 1995, 58% in 1996. and 69% in 1997. This reflects the increasing coverage of DARE statewide since 1990.

→ Whereas 97% of 5th graders report receiving drug education in the past year, only 56% of 8th and 29% of 11th graders report any drug education in the 1997-1998 year.

→ Fewer 5th, 8th and 11th graders thought there is a "great risk" from smoking a pack of cigarettes a day in 1998, compared to 1997.

→ Most Delaware students do not think there is a "great risk" in using alcohol -- only 27% of 5th graders, 20% of 8th graders and 28% of 11th graders think there is a great risk from drinking every day: all declines from 1997.

→ Most Delaware students do not think there is a "great risk" in trying marijuana -- only 28% of 5th graders, 18% of 8th graders, and 15% of 11th graders think there is a great risk from trying marijuana. The 5th and 8th graders' perceived risk decreased from 1997, significantly for 8th graders.

→ Even among those students who have never tried marijuana, 40% of 5th graders, 46% of 8th graders and 54% of 11th graders think there is little risk from trying marijuana: all up from 1997.

→ Only 27% of 5th graders think there is great risk from trying cocaine. The percentage finding great risk from trying cocaine rises to 35% for 8th graders and 52% for 11th graders. However for all 3 grades, fewer students see a great risk from trying cocaine in 1998, compared to 1997,

→ Half of 5th, 8th, and 11th graders think that fighting or violence is a problem at their school. However, taking a weapon to school declined slightly in 1998 to 4% of 8th graders and 5% of 11th graders.

→ The vast majority of students feel safe in school. However, only about 64% of 5th graders think kids at school obey their teachers, and only 19% of 8th graders and 22% of 11th graders think students treat teachers with respect most of the time. Less than half of 5th graders think kids at school are well-behaved in class, and this percentage declines to 28% of 8th graders and 33% of 11th graders who think students are well-behaved in public. For 5th and 8th graders, these are significant declines from 1997.

→ About 8% of 11th graders report driving after smoking marijuana in the past month, and 11% report driving after drinking in the past month. One in seven 11th graders has ridden with a drinking driver and one in five has ridden with a marijuana-using driver in the past month.

→ Among both 8th and 11th graders, past month substance use -- whether cigarettes, alcohol, or marijuana -- is highly correlated with other delinquent behaviors such as gang fights, stealing, illegal entry, and trouble with police.

→ 4% of 8th graders meet criteria approximating a clinical definition of each of cigarette and alcohol dependence, and an additional 14% of 8th graders are alcohol abusers. Among 11th graders, 12% meet dependence criteria for each of cigarettes and alcohol, and an additional 30% are alcohol abusers. Levels of dependence have been steady for the last 4 years.

→ For all grades and for 8th graders in particular, students who report they communicate well with their parents and that their parents are involved with their school are less likely to use drugs.

→ Students, particularly 8th graders, whose parents or siblings smoke cigarettes are more likely to smoke cigarettes and use other drugs.

→ How Do the Data for Delaware compare with what is Happening Regionally and Nationally? We have little data yet from other states for 1998. National data report small declines in drug use for 8th and 12th graders in 1998. In the past 4 years, Delaware trends have tended to precede national trends by about a year. The rates of drug use among Delaware students are comparable to those reported regionally and nationally in the past couple of years, though 8th grade marijuana use has been slightly higher in Delaware.

Overview of Study

This study is the 1998 continuation of a survey that was first administered to Delaware students in Spring, 1995, replacing a survey previously used by the Department of Education (then the Department of Public Instruction). The survey content was developed in 1995 by an *ad hoc* committee that included representatives from the Office of Prevention and Child Mental Health Services in the Department of Services for Children, Youth and Their Families (DSCYF), the Department of Education, the Division of Alcohol, Drug Abuse and Mental Health in the Department of Health and Social Services (DHSS), and from the University of Delaware's Center for Drug and Alcohol Studies and Center for Community Development and Family Studies. This group collaborated in developing and fielding a state-wide school survey in 1995, and the survey was repeated in 1996, 1997, and now in 1998. The 1998 survey was sponsored and paid for using University of Delaware contract funds budgeted for youth surveys supporting the efforts of Federal initiatives from the Center for Substance Abuse Prevention (CSAP) for the Delaware Prevention Coalition (administered through the Office of Prevention in DSCYF) and for the Coalition of Community Prevention Partnerships (administered through the New Castle County Community Partnership). The purposes of the 1998 Delaware School Survey study are:

- a. To provide estimates of students' Alcohol, Tobacco and Other Drug Abuse (ATODA) attitudes, and the incidence and prevalence of drug use as requested by CSAP. Such information is important for the continuing evaluation of the Delaware Prevention Coalition (DPC) and the Coalition of Community Prevention Partnerships (CCPP);
- b. To provide estimates of student ATODA incidence, prevalence, abuse and dependence for state assessment and planning purposes;
- c. To provide ongoing trend data that is comparable with the PAUS surveys (Perspectives, Activities, and Use Surveys) among Delaware school children developed by Data Base, Inc. that the Department of Education used from 1989 to 1994; and
- d. To provide information for other state and local planning and assessment purposes. For example, this year's survey includes new information on school behavior and school violence.

The survey was fielded in April and May, 1998 as an anonymous classroom administration, using a form that could be completed in no more than one class period. Passive parental consent and active student assent was solicited in eighteen of the nineteen districts. Only one district required active parental consent. All consent procedures were reviewed and approved by the University of Delaware's Institutional Review Board. The survey was administered in a stratified multi-stage design to selected classes of 5th, 8th, and 11th graders. Final sample size, after excluding any students who reported using a fictitious drug (included as a question) or who otherwise obviously falsified their answers was 1,186 eleventh graders (19 excluded), 1,228 eighth graders (39 excluded), and 1,087 fifth graders (8 excluded). For the second year, surveys were completed in all nineteen school districts in the State.

SAMPLE DESCRIPTION 1998

	FIFTH GRADE (N=1,087)	EIGHTH GRADE (N=1,228)	ELEVENTH GRADE (N=1,186)
GENDER (%)			
Males	52	50	45
Females	48	50	55
ETHNICITY (%)			
White	63	62	69
Black	26	27	22
Latino	3	4	3
Other	8	7	6
COUNTY (Ns)			
New Castle	491	586	584
Kent	317	318	246
Sussex	279	324	356

University of Delaware School Survey 1998

The sample allows for statewide and countywide estimates with reasonable precision. The 1998 sample reasonably approximated the numbers expected in each County. We constructed trail weight variables to adjust gender and school district proportions and applied these to the data. No differences were greater than one-half of one percent, so we chose to present these data unweighted. However, these issues point out the fact that sampling by classes within each District do not provide estimates that can be applied below the County level with any confidence. Fortunately, the increased sample size that will be undertaken for the 1999 Delaware School Survey will allow for accurate estimates, even at the District level.

Since 1995, the cooperation and assistance of the participating school districts has been essential in doing this study, and we are grateful for their help. The results have proved useful and important for the agencies involved and for the communities statewide who are dealing with the problems of alcohol, tobacco, and other drug use among youth. We plan to continue this collaboration between State agencies and the University in subsequent years. Funding for expanded surveys in Spring 1999 and for the subsequent two years is available from a new federal CSAP Cooperative Agreement Award for the State Incentive Grant (SIG). This SIG is a combined effort of the Family Services Cabinet Council under the Governor's leadership.

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