

Chapter 6

TREATMENT NEEDS AND UTILIZATION OF TREATMENT FACILITIES

Chapters 4 and 5 dealt with prevalence rates for lifetime, monthly, and daily alcohol, tobacco, and other drug use reported by 6th-, 8th-, 10th-, and 12th-grade students surveyed in 2003. This chapter focuses on the extreme cases of adolescent alcohol and drug use by addressing statewide treatment needs for those who abuse or are dependent on alcohol and/or drugs. Two sets of concerns are examined in this chapter: (1) the extent of Hawaii's statewide treatment needs at grade, county, and district levels; and (2) the utilization of treatment facilities.

ADOLESCENT TREATMENT NEEDS IN 2003

Since 1996, treatment needs in the *Hawaii Student Alcohol, Tobacco, and Other Drug Use Survey* have been assessed by using the criteria from the *Diagnostic and Statistical Manual of Mental Disorders, Third Edition, Revised* (DSM-III-R), which emphasize negative social and interpersonal consequences resulting from using drugs. This chapter addresses adolescent treatment needs based on the DSM-III-R criteria. The DSM-III-R diagnostic criteria for treatment needs reflect standards developed by researchers as to what patterns of behavior or physiological characteristics constitute substance abuse and dependence. Two types of diagnoses are distinguished by the DSM-III-R criteria: dependence and abuse. Dependence is the most severe diagnosis and includes both physiological symptoms, such as tolerance and withdrawal, and behavioral symptoms, such as impaired control over the use of a substance (Hasin, Grant, & Endicott, 1990). Abuse is a residual category for those who don't meet the criteria of dependence but who use substances in dangerous situations or who use substances despite having physical, social, psychological, or occupational problems related to their substance use. See Chapter 3 for explanations of each criterion and how the criteria are used to make specific diagnoses.

Dependence and abuse are assessed in the present study for six classes of substances: alcohol, marijuana, stimulants (cocaine, methamphetamine, speed), depressants or downers (sedatives, heroin), hallucinogens, and "club drugs" (ecstasy/MDMA, GHB, Rohypnol, ketamine). Because of the high likelihood of substance abuse by adolescents turning into a dependency problem, students are considered as needing of treatment, or at least screening for treatment, if they are diagnosed as dependent on *or* abusers of any of these six substance classifications.

This section begins by presenting statewide treatment needs, followed by public versus private school treatment needs. Next, county- and district-level treatment needs, and trends in treatment needs are discussed. The chapter ends by discussing treatment needs for subgroups based on sex and ethnicity.

In this chapter, overall statewide treatment need estimates include both public and private school students. However, unlike previous chapters, county- and district-level results related to treatment needs include *only* public school students. The decision to focus on public school students when addressing treatment needs at the county and district level was made because public schools, rather than private schools, receive state funding for school treatment programs. One of the primary purposes for assessing adolescent treatment needs in the current study is to help facilitate the fair allocation of federal and statewide resources to support school-based treatment programs where the need is greatest.

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The tables presented in each section highlight treatment needs at each grade level in a number of ways. First, the tables present total alcohol treatment needs for each grade level by listing the percentage of students who fit either an alcohol dependence or abuse diagnosis according to the DSM-III-R criteria. The percentages of students in each of these categories are displayed under the total alcohol treatment need estimates. Second, the tables present total drug treatment needs for each grade level by listing the percentage of students fitting either a drug abuse or dependence diagnosis for any illicit drug. The percentages of students fitting drug abuse and dependence diagnoses for each drug classification are also provided. Next, a summary of the treatment needs is presented that includes the percentages of students who need treatment for alcohol use only, drug use only, both alcohol and drug use, and total treatment needs (alcohol and/or drug use). The tables end with the estimated number of students needing treatment for alcohol use (regardless of whether they have a drug abuse problem or not), the estimated number of students needing treatment for drug use (regardless of whether they have an alcohol abuse problem or not), and the estimated number of students needing treatment for either alcohol and/or drugs.

The figures generally illustrate treatment needs (referred to as “abuse”) at each grade level by showing the percentage of students who need treatment for any substance abuse (alcohol and/or drugs), and who need treatment for various types of substance abuse (alcohol, marijuana, stimulants, depressants, hallucinogens, or club drugs). Some figures summarize treatment needs by showing the percentage of students who need treatment for any substance abuse (i.e., total treatment needs), any alcohol abuse, and any drug abuse. Unless specified by the word “only,” the different types of abuse diagnoses in the tables and figures are not mutually exclusive and, thus, cannot be added to get total treatment needs for any substance abuse. For instance, the percentage of students who fit a dependence/abuse diagnosis for marijuana might also include students who fit a dependence/abuse diagnosis for some other illicit drug. Mutually exclusive categories are designated by the word “only.” Thus, in Figure 32, “alcohol abuse only” includes students who fit a dependence/abuse diagnosis for alcohol and no other substance. For further clarification of the data presented in the tables, refer to the notes on page 273.

Statewide Treatment Needs by Grade Level, 2003

Table 24 and Figure 32 display the percentage of students statewide who need treatment for alcohol abuse only, drug abuse only, both alcohol and drug abuse, and any substance abuse (i.e., total treatment needs). Figure 33 displays the percentage of students who need treatment for any alcohol abuse and shows the percentage of students in this group who abuse alcohol versus those who are dependent on alcohol. Figure 34 displays the percentage of students who need treatment for any drug abuse and the percentage of students needing treatment for specific types of drug abuse. Table 25 compares public and private school students (i.e., students who attend either private or charter schools) and provides estimates of the total number of public and private school students in grades 6, 8, 10, and 12 who have treatment needs. Estimates for private school students are provided in Table 25 but not discussed in detail because only 38% of all private schools and 28% of all charter schools participated in the study. Thus, the estimates may not accurately reflect *all* private/charter schools in the State of Hawaii.

The major findings shown in the tables and figures are addressed next. Unless specifically stated otherwise, “abuse” refers to either a dependency *or* abuse diagnosis and is equivalent to needing treatment for the specific substance. “Drug abuse” refers to abuse of illicit drugs, “alcohol abuse” refers to abuse of alcohol, and “substance abuse” refers to abuse of illicit drugs and/or alcohol.

TABLE 24
Statewide Treatment Needs Based on the DSM-III-R Criteria for
Sixth, Eighth, Tenth, and Twelfth Graders, 2003

STATEWIDE TREATMENT NEEDS	6th Grade	8th Grade	10th Grade	12th Grade
ALCOHOL TREATMENT NEEDS (abuse or dependency)	0.3%	2.3%	7.9%	13.1%
<i>Alcohol Abuse</i>	0.2%	0.5%	1.4%	3.2%
<i>Alcohol Dependency</i>	0.2%	1.8%	6.5%	9.9%
DRUG TREATMENT NEEDS (abuse or dependency of any illicit drug)	0.4%	2.2%	6.9%	10.7%
1. Marijuana Treatment Needs (abuse or dependency)	0.3%	1.9%	6.3%	10.0%
<i>Marijuana Abuse</i>	0.2%	0.5%	1.2%	2.7%
<i>Marijuana Dependency</i>	0.2%	1.4%	5.1%	7.3%
2. Stimulant Treatment Needs (abuse or dependency)	0.1%	0.3%	0.8%	1.3%
<i>Stimulant Abuse</i>	0.1%	0.1%	0.2%	0.3%
<i>Stimulant Dependency</i>	0.0%	0.3%	0.6%	1.0%
3. Depressant Treatment Needs (abuse or dependency)	0.2%	0.4%	0.6%	0.8%
<i>Depressant Abuse</i>	0.1%	0.1%	0.1%	0.2%
<i>Depressant Dependency</i>	0.1%	0.3%	0.5%	0.6%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.1%	0.2%	0.4%	0.9%
<i>Hallucinogen Abuse</i>	0.1%	0.1%	0.2%	0.3%
<i>Hallucinogen Dependency</i>	0.1%	0.2%	0.2%	0.6%
5. Club Drugs Treatment Needs (abuse or dependency)	0.2%	0.5%	0.9%	1.1%
<i>Club Drugs Abuse</i>	0.1%	0.2%	0.4%	0.5%
<i>Club Drugs Dependency</i>	0.1%	0.3%	0.5%	0.6%
SUMMARY OF TREATMENT NEEDS				
Alcohol Treatment Needs <i>Only</i>	0.1%	0.8%	3.4%	5.3%
Drug Treatment Needs <i>Only</i>	0.2%	0.8%	2.6%	3.1%
Both Alcohol and Drug Treatment Needs	0.2%	1.5%	4.5%	7.8%
Total Treatment Needs (Alcohol and/or Drug)	0.5%	3.1%	10.5%	16.3%
Total Student Population	16,649	17,127	15,921	12,824
(a) Estimated # of Students Needing Alcohol Abuse Treatment	55	389	1,255	1,674
(b) Estimated # of Students Needing Drug Abuse Treatment	62	375	1,091	1,373
(c) Estimated # of Students Needing Any Substance Abuse Treatment	85	533	1,667	2,090

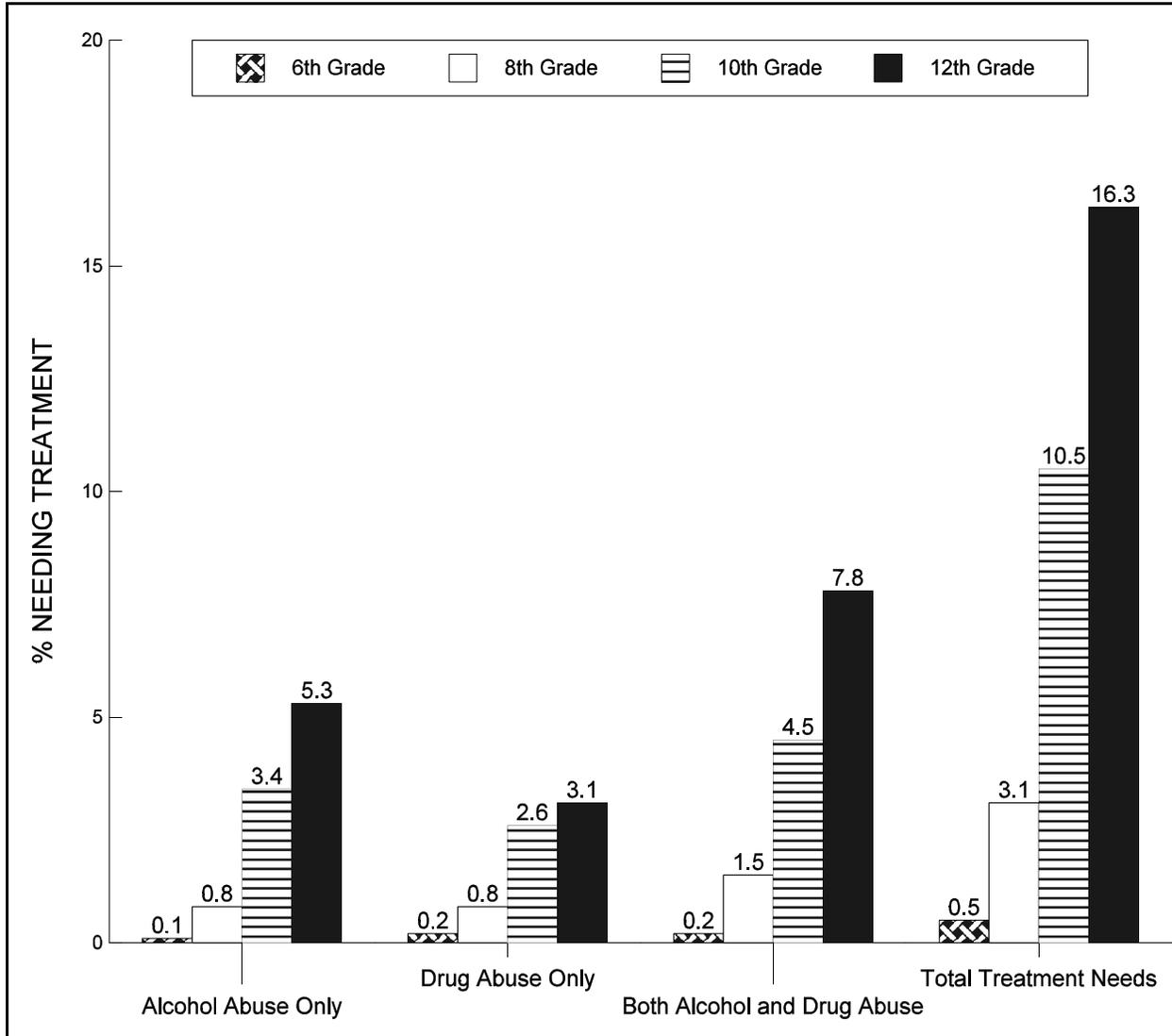
NOTE: See notes related to treatment needs on page 273. The sum of the parts may be different than the totals due to rounding. The estimated number of students needing treatment are calculated prior to rounding the percentages needing treatment to one decimal place. Thus, multiplying the percentage needing treatment in a particular grade by the total student population in that grade will, in some circumstances, reflect a slightly different number than that depicted in the table.

Overview of Key Findings. The percentage of students needing treatment for alcohol and/or drug abuse increases at each grade level, with treatment needs more than doubling from the 6th grade to the 8th grade and again from the 8th grade to the 10th grade. Statewide treatment needs for any substance abuse (alcohol and/or drugs) are as follows: 1% for 6th graders, 3% for 8th graders, 11% for 10th graders, and 16% for 12th graders. Most students who are classified as needing treatment for substance abuse meet a dependency diagnosis as opposed to the residual, less severe category of abuse. More students in grades 8, 10, and 12 need treatment for both alcohol and drugs than either one alone. Drug abuse treatment needs are higher for marijuana than for other illicit drugs, with marijuana treatment needs only 1 to 3 percentage points less than alcohol treatment needs. Public school students have higher treatment needs for alcohol abuse, drug abuse, and any substance abuse (alcohol and/or drug) than private school students. Public and private school students' treatment needs for illicit drugs other than marijuana, however, are fairly similar to one another.

- As seen in Table 24 and Figure 32, **total statewide treatment needs** for alcohol and/or drug abuse for 6th graders is 1%, for 8th graders is 3%, for 10th graders is 11%, and for 12th graders is 16%. Thus, nearly 1 out of 10 students in the upper grades is in need of treatment for alcohol and/or drug abuse.
- Figure 32 shows that most students who need treatment need help for **both alcohol and drug abuse**, rather than treatment for either of these alone. For instance, of the seniors who need treatment for any substance abuse (16%), half of them need treatment for both alcohol and drug abuse (8%), whereas less than a third need treatment for alcohol abuse only (5%) and less than one fifth need treatment for drug abuse only (3%).
- Figure 33, on page 254, shows that very few 6th-grade students have **alcohol treatment needs** (<1%). However, the proportion of students needing treatment for alcohol abuse quadruples by the 8th grade, where 2% of the students either are dependent on (1.8%) or abusing (0.5%) alcohol. Nearly four times as many 10th-grade students than 8th-grade students need treatment for alcohol use, with 8% of 10th-grade students dependent on (7%) or abusing (1%) alcohol. The percentage rises again at the 12th grade, with 13% of 12th-grade students dependent on (10%) or abusing (3%) alcohol. Figure 33 highlights the increase in alcohol abuse at each grade level and shows that most students with alcohol treatment needs fit an alcohol dependence classification, rather than the residual alcohol abuse classification.
- Figure 34, on page 255, shows that less than 1% of 6th-grade students have **drug treatment needs** and, similar to alcohol treatment needs, the percentage quadruples by the 8th grade (2%). From the 8th grade to the 10th grade, the percentage with treatment needs for drug abuse more than triples (7%). At least 1 out of 10 seniors (11%) needs treatment for drug abuse. Most students with drug treatment needs fit a drug dependence classification, rather than the less severe diagnosis of drug abuse (see Table 24).

FIGURE 32
Statewide Treatment Needs for Alcohol and Illicit Drug Abuse:
Percentage of Students Diagnosed as Abusers of or Dependent on Alcohol and/or Drugs
Based on the DSM-III-R Criteria, by Grade, 2003

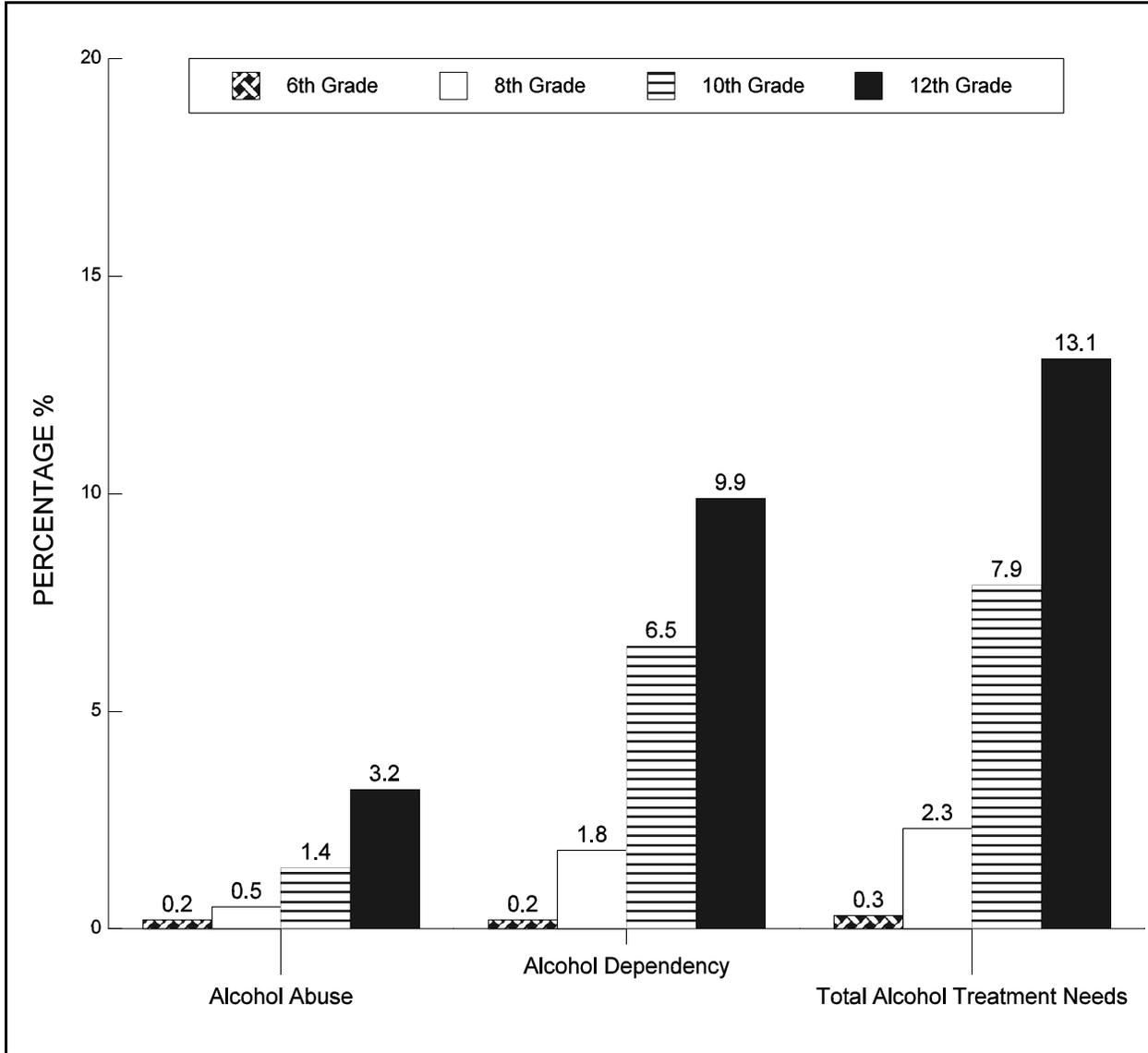
(Entries are percentages %)



NOTES: *Alcohol Abuse Only* includes students classified as dependent on or abusers of alcohol according to the DSM-III-R criteria, but who are not dependent on or abusers of illicit drugs. *Drug Abuse Only* includes students classified as dependent on or abusers of at least one illicit drug according to the DSM-III-R criteria, but who are not dependent on or abusers of alcohol. Illicit drug dependency/abuse is assessed for marijuana, stimulants, depressants, hallucinogens, and “club drugs” (ecstasy/MDMA, GHB, Rohypnol, or ketamine). *Both Alcohol and Drug Abuse* includes students classified as dependent on or abusers of both alcohol and illicit drugs. *Total Treatment Needs* for any substance abuse includes students who are classified as dependent on or abusers of alcohol, illicit drugs, or both alcohol and illicit drugs, according to the DSM-III-R criteria.

FIGURE 33
Statewide Treatment Needs for Alcohol Abuse:
Percentage of Students Diagnosed as Abusers of or Dependent on Alcohol
Based on the DSM-III-R Criteria, by Grade, 2003

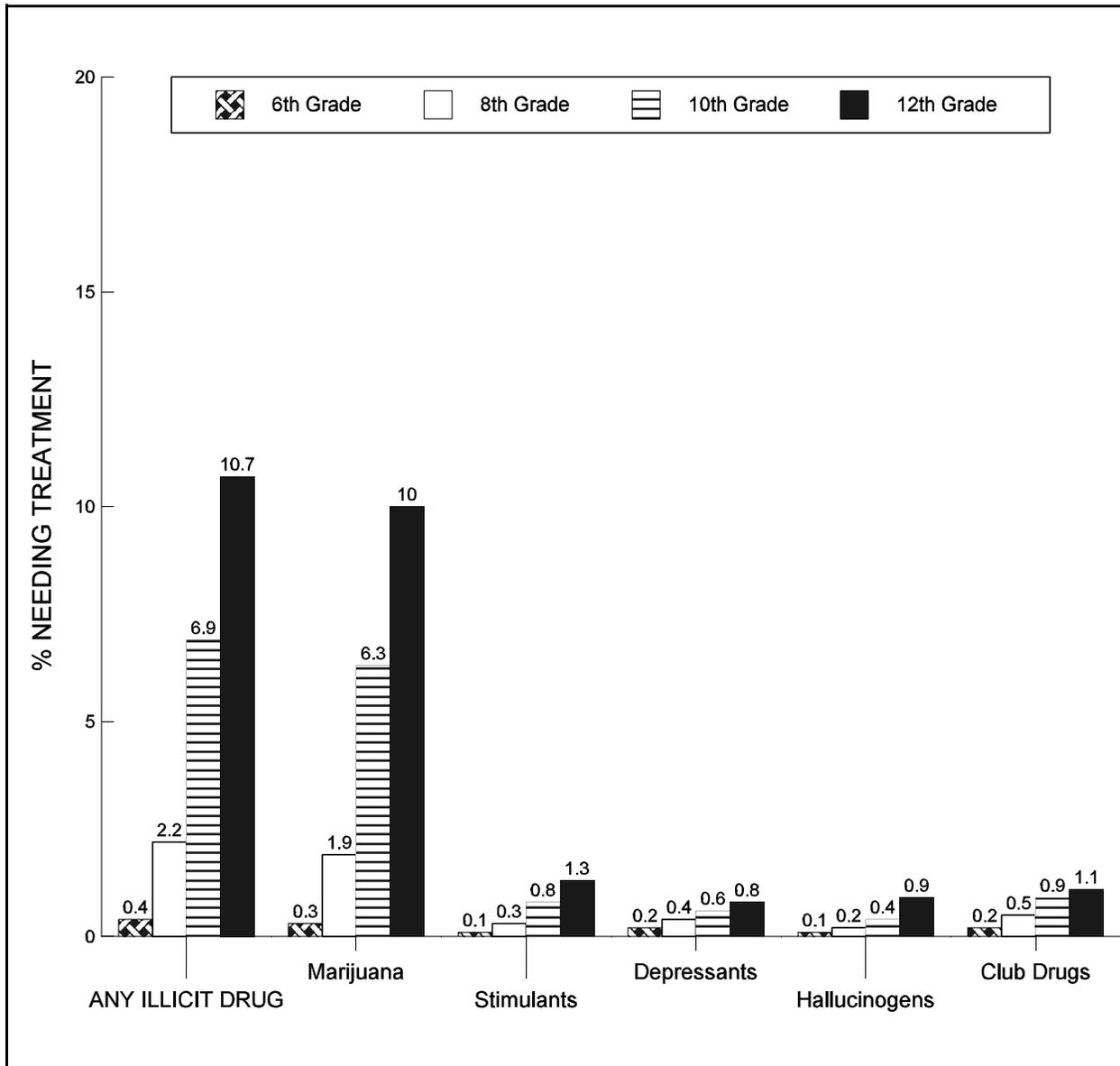
(Entries are percentages %)



NOTES: *Alcohol Abuse* includes students who are not dependent on alcohol, but who do display a maladaptive use of alcohol (e.g., drinking in situations which are physically hazardous or continuing to drink despite knowledge of having problems caused or exacerbated by drinking). *Alcohol Dependency* is the most severe diagnosis and refers to students who have physiological symptoms, such as tolerance and withdrawal, and behavioral symptoms, such as impaired control over drinking. *Total Alcohol Treatment Needs* includes students who are either dependent on or abuse alcohol, regardless of whether they need treatment for illicit drugs.

FIGURE 34
Statewide Treatment Needs for Abuse of Various Illicit Drugs:
Percentage of Students Diagnosed as Abusers of or Dependent on Various Drugs
Based on the DSM-III-R Criteria, by Grade, 2003

(Entries are percentages %)



NOTES: The percentages in the chart reflect the total treatment needs (abuse or dependency diagnosis) for each type of substance. *Any Illicit Drug* includes abuse of or dependency on one or more of the illicit drugs (marijuana, stimulants, depressants, hallucinogens, or club drugs). *Stimulants* include cocaine, methamphetamine, and speed. *Depressants* include downers, sedatives, and heroin. *Club Drugs* include ecstasy/MDMA, GHB, Rohypnol, and ketamine.

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- More students are classified as needing treatment for *marijuana abuse* than for any other illicit drug classification (see Figure 34 on the previous page). The percentages of students with marijuana treatment needs in grades 6 (0.3%), 8 (2%), 10 (6%), and 12 (10%) are very similar to the percentages of students with alcohol treatment needs in the same grades (0.3%, 2%, 8%, and 13%).
- Illicit drugs, other than marijuana, are abused by 1% or less of the students in all grade levels: Treatment needs for *stimulants* in grades 6, 8, 10, and 12 are 0%, 0%, 1%, and 1%; treatment needs for *depressants* in the same grades are 0%, 0%, 1%, and 1%; treatment needs for *hallucinogens* in the same grades are 0%, 0%, 0%, and 1%; and treatment needs for *club drugs* in the same grades are 0%, 1%, 1%, and 1%.
- Table 25 on the next page illustrates that *public school students* in grades 8, 10, and 12 have higher total treatment needs (4%, 11%, and 17%, respectively) than *private school students* in the same grades (2%, 9%, and 15%, respectively). The percentage point differences in total treatment needs between public and private school students in grades 6, 8, and 12 are 2 percentage points or less.
- Table 25 shows that a greater proportion of public school students than private school students have *alcohol treatment needs* in grade 8 (3% in public schools versus 1% in private schools) and grade 12 (13% in public schools versus 12% in private schools), although the differences are modest. In grade 10, similar proportions of public and private school students need alcohol treatment (8% each).
- *Drug treatment needs* are slightly higher among public school students in grades 8 (3% versus 1%), 10 (7% versus 6%), and 12 (11% versus 9%), and these differences are a function of *marijuana treatment needs*.
- Table 25 shows that treatment needs for *specific illicit drug classifications*, other than marijuana, are fairly similar among public and private school students of the same grade level. Treatment needs for these other drugs are 1% or less.

Department of Education (DOE) County- and District-Level Treatment Needs, 2003

Figures 35 and 36 display DOE county-level treatment needs and highlight DOE counties in greatest need of resources for various types of drug abuse. Table 26 displays the percentage and estimated number of 6th-, 8th-, 10th-, and 12th-grade students with treatment needs in each DOE county.

Four districts are included in the City & County of Honolulu, so more precise estimates of treatment needs in various parts of the state are provided by examining district-level treatment needs. Figures 37 and 38 display district-level treatment needs and highlight districts in greatest need of state resources. Tables 27a through 27g display the percentage and estimated number of 6th-, 8th-, 10th-, and 12th-grade students with treatment needs in each district.

TABLE 25
Treatment Needs by School Type for Sixth, Eighth, Tenth, and Twelfth Graders, 2003

SCHOOL TYPE:	6th Grade		8th Grade		10th Grade		12th Grade	
	Public	Private	Public	Private	Public	Private	Public	Private
ALCOHOL TREATMENT NEEDS (abuse or dependency)	0.4%	0.1%	2.6%	1.3%	8.0%	7.6%	13.3%	12.3%
<i>Alcohol Abuse</i>	0.2%	0.0%	0.6%	0.0%	1.4%	1.2%	3.2%	3.0%
<i>Alcohol Dependency</i>	0.2%	0.1%	1.9%	1.3%	6.6%	6.4%	10.0%	9.4%
DRUG TREATMENT NEEDS (abuse or dependency of any illicit drug)	0.5%	0.0%	2.5%	1.0%	7.0%	6.1%	11.1%	9.2%
1. Marijuana Treatment Needs (abuse or dependency)	0.4%	0.0%	2.2%	1.0%	6.4%	5.9%	10.4%	8.7%
<i>Marijuana Abuse</i>	0.2%	0.0%	0.6%	0.1%	1.3%	0.9%	2.6%	3.1%
<i>Marijuana Dependency</i>	0.2%	0.0%	1.5%	1.0%	5.1%	4.9%	7.8%	5.6%
2. Stimulant Treatment Needs (abuse or dependency)	0.2%	0.0%	0.4%	0.1%	0.9%	0.5%	1.3%	1.4%
<i>Stimulant Abuse</i>	0.1%	0.0%	0.1%	0.0%	0.2%	0.3%	0.3%	0.3%
<i>Stimulant Dependency</i>	0.1%	0.0%	0.3%	0.1%	0.7%	0.3%	1.0%	1.0%
3. Depressant Treatment Needs (abuse or dependency)	0.3%	0.0%	0.5%	0.2%	0.7%	0.5%	0.8%	1.1%
<i>Depressant Abuse</i>	0.1%	0.0%	0.2%	0.0%	0.1%	0.2%	0.2%	0.3%
<i>Depressant Dependency</i>	0.1%	0.0%	0.3%	0.2%	0.6%	0.2%	0.6%	0.8%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.2%	0.0%	0.3%	0.1%	0.4%	0.4%	1.1%	0.6%
<i>Hallucinogen Abuse</i>	0.1%	0.0%	0.1%	0.0%	0.2%	0.4%	0.4%	0.2%
<i>Hallucinogen Dependency</i>	0.1%	0.0%	0.2%	0.1%	0.3%	0.1%	0.7%	0.4%
5. Club Drugs Treatment Needs (abuse or dependency)	0.2%	0.0%	0.5%	0.4%	1.0%	0.5%	1.1%	1.2%
<i>Club Drugs Abuse</i>	0.1%	0.0%	0.2%	0.2%	0.4%	0.3%	0.5%	0.4%
<i>Club Drugs Dependency</i>	0.1%	0.0%	0.3%	0.2%	0.6%	0.2%	0.6%	0.8%
SUMMARY OF TREATMENT NEEDS								
<i>Alcohol Treatment Needs Only</i>	0.2%	0.1%	0.9%	0.5%	3.7%	2.6%	5.3%	5.4%
<i>Drug Treatment Needs Only</i>	0.2%	0.0%	1.0%	0.3%	2.9%	1.2%	3.4%	2.3%
<i>Both Alcohol and Drug Treatment Needs</i>	0.2%	0.0%	1.7%	0.7%	4.3%	5.1%	8.1%	7.1%
<i>Total Treatment Needs (Alcohol and/or Drug)</i>	0.6%	0.1%	3.6%	1.6%	10.9%	8.8%	16.7%	14.8%
Total Student Population	13,533	3,116	13,419	3,708	12,662	3,259	10,038	2,786
(a) Estimated # of Students Needing Alcohol Abuse Treatment	53	3	342	47	1,007	248	1,330	344
(b) Estimated # of Students Needing Drug Abuse Treatment	61	0	338	37	891	199	1,118	255
(c) Estimated # of Students Needing Any Substance Abuse Treatment	84	3	476	59	1,381	287	1,679	411

NOTES: See notes related to treatment needs on page 273. Private school classification also includes charter schools. The estimated number of students needing treatment are calculated prior to rounding the percentages needing treatment to one decimal place. Thus, multiplying the percentage needing treatment in a particular grade by the total student population in that grade will, in some circumstances, reflect a slightly different number than that depicted in the table.

TABLE 26
Treatment Needs by DOE County for Sixth, Eighth, Tenth, and Twelfth Graders, 2003

DOE COUNTY:	6th Grade				8th Grade			
	C & C of Honolulu	Hawaii County	Kauai County	Maui County	C & C of Honolulu	Hawaii County	Kauai County	Maui County
ALCOHOL TREATMENT NEEDS (abuse or dependency)	0.3%	0.2%	0.7%	1.1%	2.2%	3.0%	5.6%	2.7%
<i>Alcohol Abuse</i>	0.1%	0.0%	0.7%	0.8%	0.7%	0.6%	0.4%	0.4%
<i>Alcohol Dependency</i>	0.2%	0.2%	0.0%	0.3%	1.5%	2.3%	5.2%	2.3%
DRUG TREATMENT NEEDS (abuse or dependency of any illicit drug)	0.4%	0.6%	0.4%	1.0%	2.0%	2.7%	4.5%	4.2%
1. Marijuana Treatment Needs (abuse or dependency)	0.3%	0.6%	0.4%	0.7%	1.6%	2.1%	4.5%	4.1%
<i>Marijuana Abuse</i>	0.1%	0.1%	0.4%	0.7%	0.5%	0.5%	0.0%	1.6%
<i>Marijuana Dependency</i>	0.2%	0.4%	0.0%	0.0%	1.1%	1.6%	4.5%	2.5%
2. Stimulant Treatment Needs (abuse or dependency)	0.1%	0.1%	0.4%	0.7%	0.4%	0.3%	0.9%	0.2%
<i>Stimulant Abuse</i>	0.0%	0.1%	0.4%	0.7%	0.1%	0.0%	0.4%	0.2%
<i>Stimulant Dependency</i>	0.1%	0.0%	0.0%	0.0%	0.3%	0.3%	0.5%	0.0%
3. Depressant Treatment Needs (abuse or dependency)	0.2%	0.1%	0.4%	1.0%	0.5%	0.9%	0.5%	0.0%
<i>Depressant Abuse</i>	0.0%	0.1%	0.4%	0.7%	0.1%	0.6%	0.0%	0.0%
<i>Depressant Dependency</i>	0.2%	0.0%	0.0%	0.2%	0.3%	0.3%	0.5%	0.0%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.1%	0.1%	0.4%	0.7%	0.2%	0.3%	0.5%	0.2%
<i>Hallucinogen Abuse</i>	0.0%	0.1%	0.4%	0.7%	0.1%	0.0%	0.0%	0.2%
<i>Hallucinogen Dependency</i>	0.1%	0.0%	0.0%	0.0%	0.1%	0.3%	0.5%	0.0%
5. Club Drugs Treatment Needs (abuse or dependency)	0.2%	0.1%	0.4%	0.7%	0.7%	0.3%	0.5%	0.0%
<i>Club Drugs Abuse</i>	0.0%	0.1%	0.4%	0.4%	0.3%	0.0%	0.0%	0.0%
<i>Club Drugs Dependency</i>	0.2%	0.0%	0.0%	0.2%	0.3%	0.3%	0.5%	0.0%
SUMMARY OF TREATMENT NEEDS								
<i>Alcohol Treatment Needs Only</i>	0.1%	0.1%	0.3%	0.3%	1.0%	0.6%	1.5%	0.4%
<i>Drug Treatment Needs Only</i>	0.2%	0.5%	0.0%	0.3%	0.9%	0.6%	0.7%	2.1%
<i>Both Alcohol and Drug Treatment Needs</i>	0.2%	0.1%	0.4%	0.8%	1.2%	2.3%	4.1%	2.3%
Total Treatment Needs (Alcohol and/or Drug)	0.5%	0.7%	0.7%	1.4%	3.1%	3.6%	6.3%	4.8%
Total Student Population	9,525	1,762	768	1,478	9,169	1,776	811	1,663
(a) Estimated # of Students Needing Alcohol Abuse Treatment	27	4	6	16	202	52	46	45
(b) Estimated # of Students Needing Drug Abuse Treatment	33	10	3	14	185	48	37	69
(c) Estimated # of Students Needing Any Substance Abuse Treatment	46	12	6	20	284	63	51	79

(Table continued on next page)

TABLE 26 (continued)
Treatment Needs by DOE County for Sixth, Eighth, Tenth, and Twelfth Graders, 2002

DOE COUNTY:	10th Grade				12th Grade			
	C & C of Honolulu	Hawaii County	Kauai County	Maui County	C & C of Honolulu	Hawaii County	Kauai County	Maui County
ALCOHOL TREATMENT NEEDS (abuse or dependency)	7.0%	10.7%	3.5%	12.1%	10.4%	20.9%	16.5%	16.3%
<i>Alcohol Abuse</i>	0.9%	1.8%	0.6%	3.9%	1.6%	6.8%	5.9%	5.4%
<i>Alcohol Dependency</i>	6.1%	9.0%	2.9%	8.2%	8.8%	14.1%	10.5%	10.9%
DRUG TREATMENT NEEDS (abuse or dependency of any illicit drug)	6.4%	8.6%	5.4%	9.3%	8.9%	15.6%	17.6%	13.3%
1. Marijuana Treatment Needs (abuse or dependency)	5.9%	7.6%	4.8%	8.4%	8.3%	14.0%	17.6%	12.6%
<i>Marijuana Abuse</i>	1.1%	2.0%	0.0%	2.1%	1.2%	4.5%	7.4%	4.7%
<i>Marijuana Dependency</i>	4.8%	5.7%	4.8%	6.3%	7.1%	9.5%	10.2%	7.9%
2. Stimulant Treatment Needs (abuse or dependency)	1.0%	1.0%	0.6%	0.4%	1.5%	1.4%	0.0%	1.0%
<i>Stimulant Abuse</i>	0.2%	0.3%	0.0%	0.4%	0.3%	0.8%	0.0%	0.0%
<i>Stimulant Dependency</i>	0.8%	0.8%	0.6%	0.0%	1.2%	0.6%	0.0%	1.0%
3. Depressant Treatment Needs (abuse or dependency)	0.7%	1.0%	1.0%	0.4%	0.7%	1.4%	0.8%	0.5%
<i>Depressant Abuse</i>	0.2%	0.0%	0.0%	0.0%	0.2%	0.4%	0.0%	0.0%
<i>Depressant Dependency</i>	0.5%	1.0%	1.0%	0.4%	0.5%	1.0%	0.8%	0.5%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.3%	1.2%	0.6%	0.0%	1.0%	1.7%	0.8%	0.5%
<i>Hallucinogen Abuse</i>	0.1%	0.7%	0.0%	0.0%	0.4%	0.4%	0.8%	0.0%
<i>Hallucinogen Dependency</i>	0.2%	0.5%	0.6%	0.0%	0.7%	1.3%	0.0%	0.5%
5. Club Drugs Treatment Needs (abuse or dependency)	0.9%	1.5%	1.0%	0.8%	0.8%	2.7%	0.8%	0.8%
<i>Club Drugs Abuse</i>	0.4%	0.5%	0.0%	0.4%	0.3%	1.7%	0.0%	0.4%
<i>Club Drugs Dependency</i>	0.5%	1.0%	1.0%	0.4%	0.5%	1.0%	0.8%	0.5%
SUMMARY OF TREATMENT NEEDS								
Alcohol Treatment Needs <i>Only</i>	3.4%	4.0%	0.0%	6.7%	4.5%	8.1%	3.8%	6.6%
Drug Treatment Needs <i>Only</i>	2.9%	2.1%	2.1%	4.3%	3.2%	2.9%	5.0%	4.2%
Both Alcohol and Drug Treatment Needs	3.7%	6.8%	3.5%	5.2%	5.9%	13.2%	13.0%	9.7%
Total Treatment Needs (Alcohol and/or Drug)	10.0%	13.0%	5.6%	16.3%	13.6%	24.1%	21.9%	20.4%
Total Student Population	8,387	1,866	842	1,567	6,462	1,582	693	1,301
(a) Estimated # of Students Needing Alcohol Abuse Treatment	587	200	30	189	671	331	114	211
(b) Estimated # of Students Needing Drug Abuse Treatment	539	161	45	146	575	246	122	173
(c) Estimated # of Students Needing Any Substance Abuse Treatment	835	242	47	255	879	382	151	266

NOTES: See notes related to treatment needs on page 273. *DOE County* includes only public school students. *C & C of Honolulu* refers to the City & County of Honolulu. The estimated number of students needing treatment are calculated prior to rounding the percentages needing treatment to one decimal place.

Chapter 6

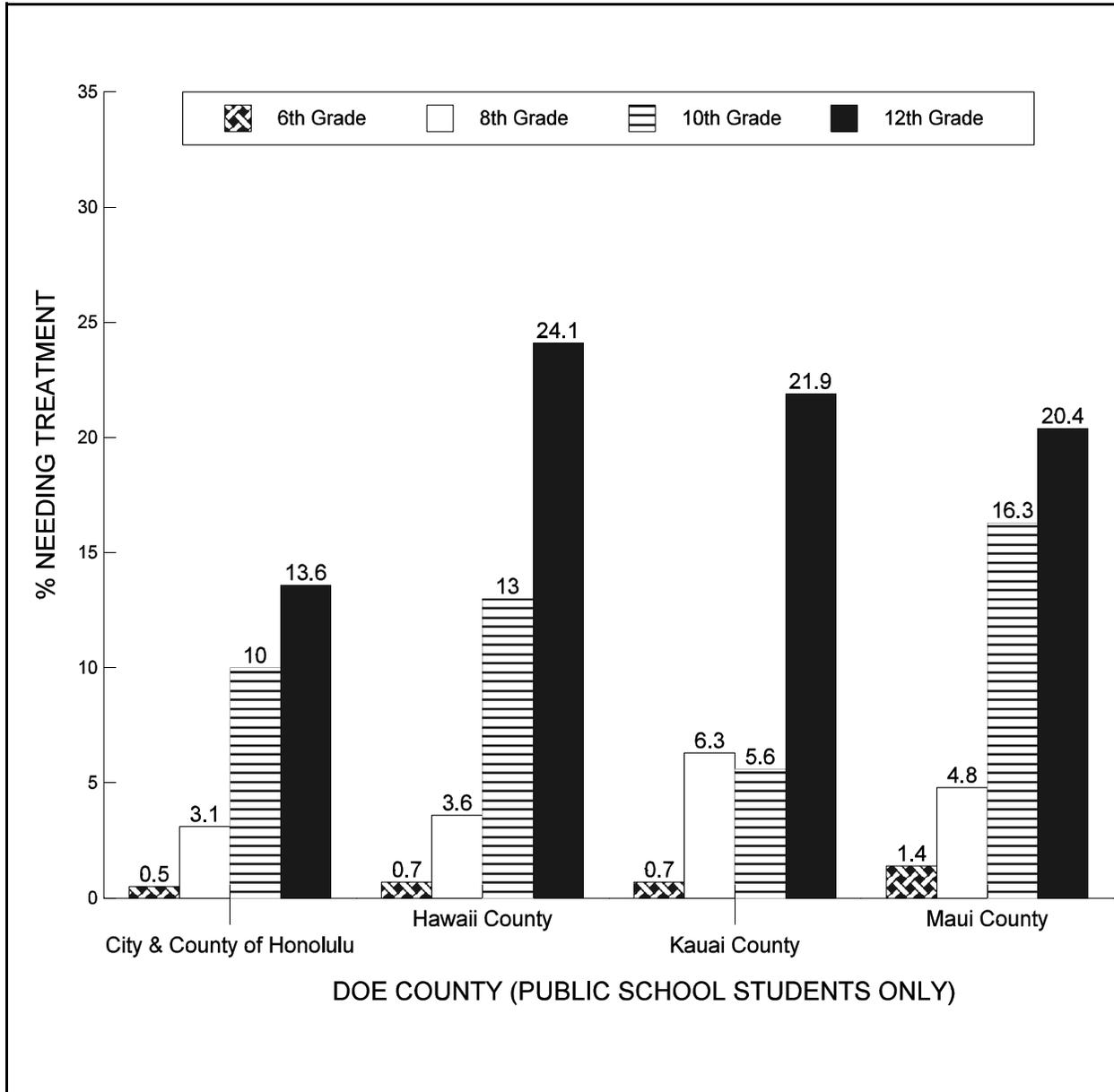
Below is a discussion of the findings for DOE county-level differences, followed by district-level differences for students in grades 6, 8, 10, and 12. As stated earlier, county- and district-level results discussed in this section are related to public school students only. County-level results that include public, private, and charter school students (i.e., Place of Residence) can be found on ADAD's web site: www.hawaii.gov/health/substance-abuse/prevention-treatment/survey/report2003. The reports contained on the web site also provide treatment needs for students in grades 7, 9, and 11.

Overview of Key Findings. At the county level, Kauai County has higher treatment needs than other counties in grade 8; Maui County has higher treatment needs than other counties in grade 10; and Hawaii County has higher treatment needs than other counties in grade 12. At the district level, Kauai District has higher treatment needs than other districts in grade 8; Maui District has higher treatment needs than other districts in grade 10; and Hawaii District has higher treatment needs than other districts in grade 12. On Oahu, treatment needs are higher among students from Windward District than among students from other districts on Oahu. Treatment needs in grade 6 are 1% or fewer across all counties and districts. Most treatment needs are related to alcohol and marijuana abuse, with treatment needs for these substances generally highest in Hawaii, Maui, Kauai, and Windward Districts. Treatment needs for illicit drugs other than marijuana are 3% or less across all grades in all counties and districts.

- ***County-level total treatment needs for any substance abuse*** are lowest among 8th and 12th graders in the City & County of Honolulu, and are lowest among 10th graders in Kauai County. In grade 6, total treatment needs are 1% or less with Maui County having the highest treatment needs (see Figure 35). In grade 8, total treatment needs are highest in Kauai County at 6%, compared to 3% in the City & County of Honolulu, 4% in Hawaii County, and 5% in Maui County. In grade 10, total treatment needs are substantially higher in Maui County at 16%, compared to 10% in the City & County of Honolulu, 13% in Hawaii County, and 6% in Kauai County. Hawaii County has the highest treatment needs in grade 12, with 24% needing treatment, compared to 14% in the City & County of Honolulu, 22% in Kauai County, and 20% in Maui County (see Figure 36 and Table 26).
- ***County-level alcohol treatment needs*** follow a pattern similar to those noted above for total treatment needs (compare Figure 35 to Figure 36a). Differences among 10th-grade students from Hawaii and Maui Counties, however, are less pronounced than those noted for total treatment needs. Across all counties, 1% or less of 6th graders need treatment for alcohol abuse. Kauai County has 6% of their 8th graders needing alcohol treatment, compared to 2% in the City & County of Honolulu, and 3% in Hawaii and Maui Counties. In grade 10, treatment needs for alcohol abuse are nearly equivalent in Hawaii (11%) and Maui Counties (12%); treatment needs for alcohol abuse in grade 10 are lowest in Kauai County (4%), followed by the City & County of Honolulu (7%). In grade 12, treatment needs for alcohol abuse are highest in Hawaii County (21%), compared to the City & County of Honolulu (10%), Kauai County (17%), and Maui County (16%).

FIGURE 35
DOE County Differences in Total Treatment Needs for Any Substance Abuse:
Percentage of Public School Students in Each County Diagnosed as Needing Treatment
for Alcohol and/or Drug Abuse Based on the DSM-III-R Criteria, by Grade, 2003

(Entries are percentages %)



NOTES: *Total Treatment Needs for Any Substance Abuse* includes students who are classified as either dependent on or abusers of alcohol, illicit drugs (marijuana, stimulants, depressants, hallucinogens, or club drugs), or both alcohol and illicit drugs according to the DSM-III-R criteria. *DOE County* includes only public school students.

FIGURE 36
DOE County Differences in Treatment Needs for Abuse of Various Substances:
Percentage of Public School Students in Each County Diagnosed as Needing Treatment
for Various Substances Based on the DSM-III-R Criteria, by Grade, 2003

(Entries are percentages %)

Figure 36a: Treatment Needs for **Alcohol**

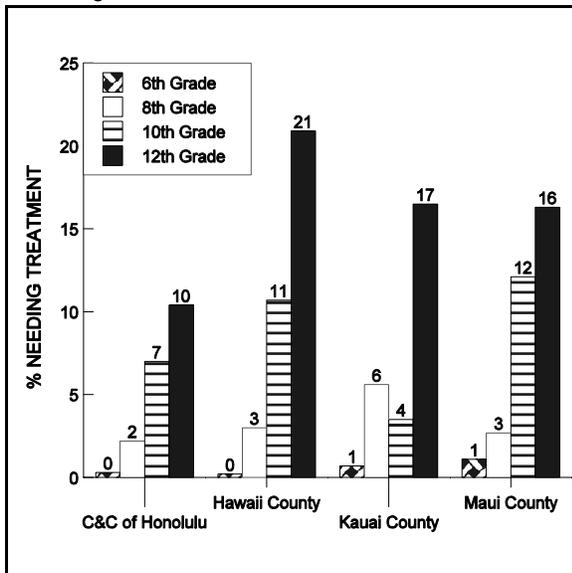


Figure 36b: Treatment Needs for **Any Illicit Drug**

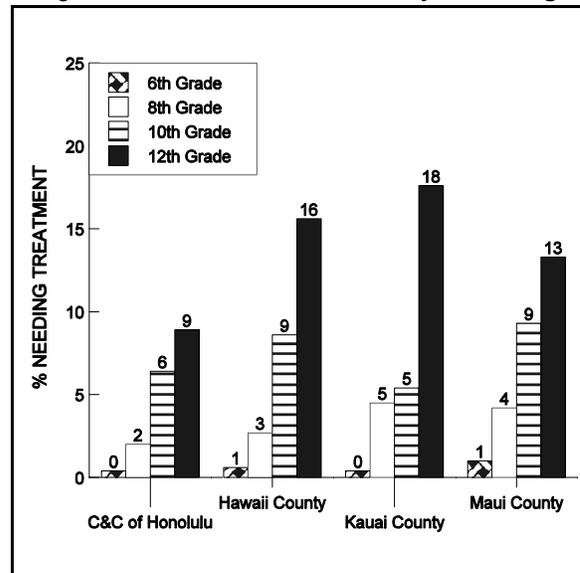


Figure 36c: Treatment Needs for **Marijuana**

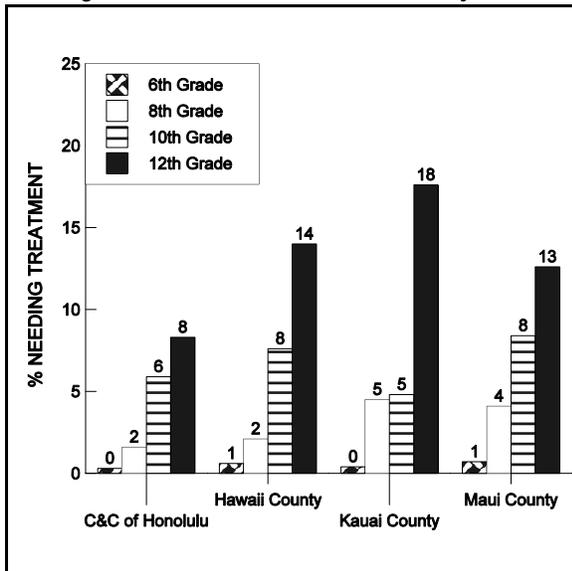
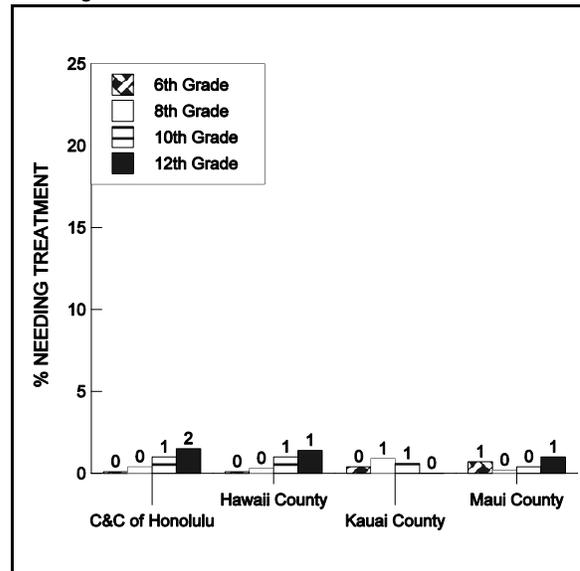


Figure 36d: Treatment Needs for **Stimulants**



(Figures continued on next page)

FIGURE 36 (continued)
DOE County Differences in Treatment Needs for Abuse of Various Substances:
Percentage of Public School Students in Each County Diagnosed as Needing Treatment
for Various Substances Based on the DSM-III-R Criteria, by Grade, 2003

(Entries are percentages %)

Figure 36e: Treatment Needs for **Depressants**

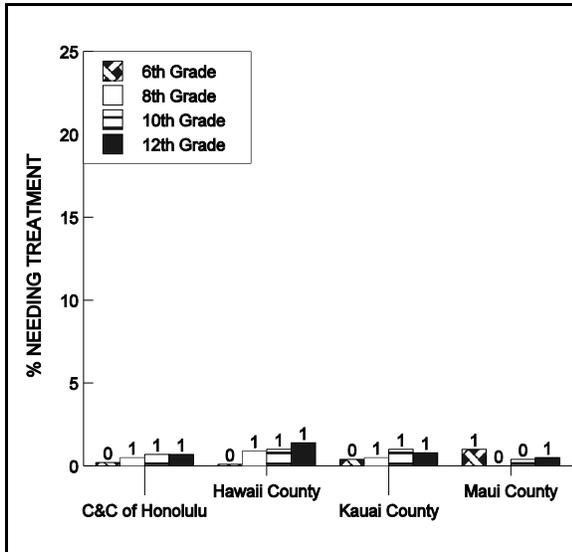


Figure 36f: Treatment Needs for **Hallucinogens**

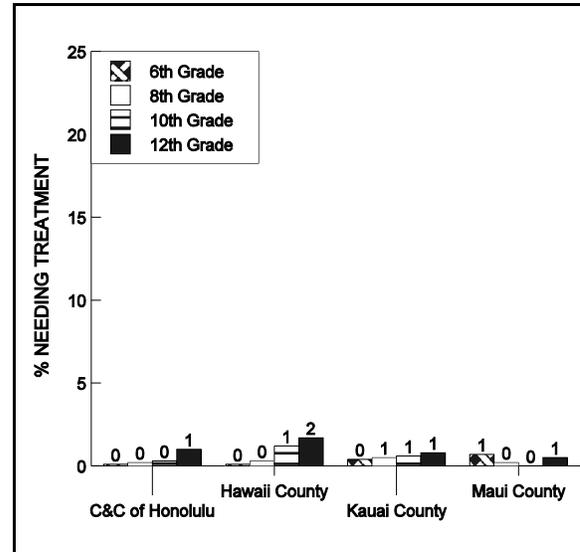
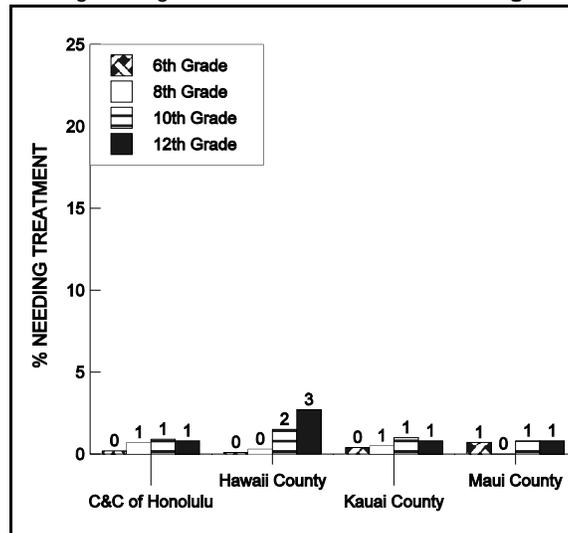


Figure 36g: Treatment Needs for **Club Drugs**



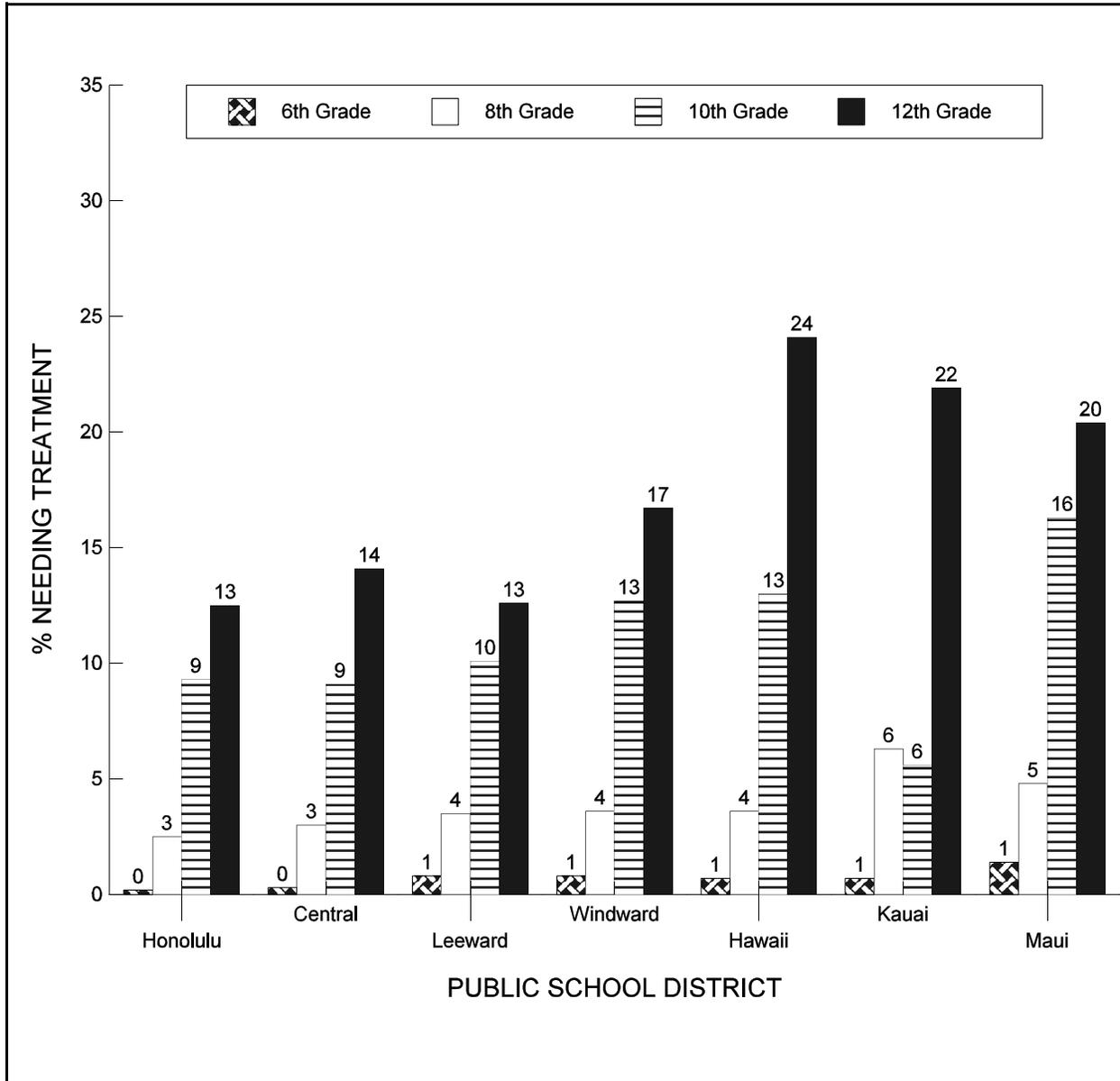
NOTES: The percentages reflect the total treatment needs (abuse or dependency diagnosis) for each type of substance. County includes public school students only. Any Illicit Drug includes abuse of or dependency on one or more of the illicit drugs (marijuana, stimulants, depressants, hallucinogens, or club drugs). Stimulants include cocaine, methamphetamine, and speed. Depressants include downers, sedatives, and heroin. Club Drugs include ecstasy/MDMA, GHB, Rohypnol, and ketamine.

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- Figure 36b on page 262 illustrates **county-level drug treatment needs**. County-level differences in illicit drug treatment needs are similar to those noted for alcohol treatment needs in grades 8 and 10. In grade 12, however, drug treatment needs in Kauai County (18%) are higher than all other counties, including Hawaii County (16%). In grade 6, all four counties have 1% or less of their students needing treatment for at least one illicit drug. In grade 8, illicit drug treatment needs are highest in Kauai County (5%), followed by Maui County (4%), Hawaii County (3%), and the City & County of Honolulu (2%). In grade 10, illicit drug treatment needs are highest in Hawaii and Maui Counties (9% each), followed by the City & County of Honolulu (6%) and Kauai County (5%). In grade 12, illicit drug treatment needs are 18% in Kauai County, 16% in Hawaii County, 13% in Maui County, and 9% in the City & County of Honolulu.
- Marijuana is abused more than other illicit drugs in all counties. Marijuana treatment needs parallel the noted patterns in treatment needs for any illicit drug abuse noted above (compare Figure 36b to 36c). **County-level marijuana treatment needs** are 1% or less for 6th graders in all counties. In grade 8, Kauai County has a slightly larger proportion of students needing marijuana treatment (5%) than Maui County (4%) or the City & County of Honolulu and Hawaii County (2% each). In grade 10, Maui and Hawaii Counties each have 8% of their students needing treatment for marijuana abuse, compared to 6% in the City & County of Honolulu and 5% in Kauai County. In grade 12, Kauai County has a larger proportion of students needing marijuana treatment (18%) than Hawaii County (14%), Maui County (13%), or the City & County of Honolulu (8%).
- Abuse of **illicit drugs other than marijuana** is 3% or less in all counties and, thus, differences between counties are small (see Figure 36d through 36g). The City & County of Honolulu has more seniors with **stimulant treatment needs**, compared to other counties (Figure 36d). Hawaii County has more seniors with **hallucinogen treatment needs** and **ecstasy or other club drug treatment needs**, compared to other counties. In regards to club drug treatment needs, Hawaii County has twice as many 10th graders (2%) and three times as many 12th graders (3%) abusing club drugs, than other counties (1% or less for 10th and 12th graders across all other counties).
- Figure 37 on the next page illustrates **district-level total treatment needs for any substance abuse**. At the district level, total treatment needs are typically highest in Hawaii, Kauai, and Maui Districts. In grade 8, Kauai District has the highest total treatment needs (6%), followed by Maui District (5%). In grade 10, Maui District has the highest total treatment needs (16%), followed by Hawaii and Windward Districts (13% each); Leeward District has 10% of their 10th graders needing treatment, Honolulu and Central Districts have 9% of their 10th graders needing treatment, and Kauai District has just 6% of their 10th graders needing treatment. In grade 12, Hawaii District has the highest proportion of students needing treatment (24%), followed closely by Kauai (22%) and Maui (20%) Districts; Windward District has 17% of their 12th graders needing treatment, Central District has 14% of their 12th graders needing treatment, and Honolulu and Leeward Districts have 13% of their 12th graders needing treatment.

FIGURE 37
District Differences in Total Treatment Needs for Any Substance Abuse:
Percentage of Students in Each Public School District Diagnosed as Needing Treatment
for Alcohol and/or Drug Abuse Based on the DSM-III-R Criteria, by Grade, 2003

(Entries are percentages %)



NOTES: Total Treatment Needs for Any Substance Abuse includes students who are classified as either dependent on or abusers of alcohol, illicit drugs (marijuana, stimulants, depressants, hallucinogens, or club drugs), or both alcohol and illicit drugs according to the DSM-III-R criteria. District includes only public schools students.

TABLE 27A
Honolulu District Treatment Needs Based on the DSM-III-R Criteria for
Public School Sixth, Eighth, Tenth, and Twelfth Graders, 2003

HONOLULU DISTRICT TREATMENT NEEDS	6th Grade	8th Grade	10th Grade	12th Grade
ALCOHOL TREATMENT NEEDS (abuse or dependency)	0.1%	2.1%	5.7%	9.1%
<i>Alcohol Abuse</i>	0.0%	0.4%	0.2%	2.0%
<i>Alcohol Dependency</i>	0.1%	1.6%	5.5%	7.1%
DRUG TREATMENT NEEDS (abuse or dependency of any illicit drug)	0.1%	1.3%	6.1%	8.5%
1. Marijuana Treatment Needs (abuse or dependency)	0.1%	1.0%	5.8%	8.0%
<i>Marijuana Abuse</i>	0.0%	0.3%	0.5%	0.9%
<i>Marijuana Dependency</i>	0.1%	0.7%	5.4%	7.1%
2. Stimulant Treatment Needs (abuse or dependency)	0.0%	0.1%	2.0%	1.9%
<i>Stimulant Abuse</i>	0.0%	0.0%	0.0%	0.0%
<i>Stimulant Dependency</i>	0.0%	0.1%	2.0%	1.9%
3. Depressant Treatment Needs (abuse or dependency)	0.0%	0.3%	0.5%	0.8%
<i>Depressant Abuse</i>	0.0%	0.3%	0.2%	0.4%
<i>Depressant Dependency</i>	0.0%	0.0%	0.3%	0.4%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.0%	0.0%	0.5%	1.3%
<i>Hallucinogen Abuse</i>	0.0%	0.0%	0.2%	0.4%
<i>Hallucinogen Dependency</i>	0.0%	0.0%	0.3%	0.8%
5. Club Drugs Treatment Needs (abuse or dependency)	0.0%	0.3%	0.9%	0.8%
<i>Club Drugs Abuse</i>	0.0%	0.3%	0.7%	0.4%
<i>Club Drugs Dependency</i>	0.0%	0.0%	0.3%	0.4%
SUMMARY OF TREATMENT NEEDS				
Alcohol Treatment Needs <i>Only</i>	0.1%	1.1%	3.0%	3.9%
Drug Treatment Needs <i>Only</i>	0.1%	0.4%	3.5%	3.3%
Both Alcohol and Drug Treatment Needs	0.0%	1.0%	2.8%	5.3%
Total Treatment Needs (Alcohol and/or Drug)	0.2%	2.5%	9.3%	12.5%
Total Student Population	2,507	2,387	2,288	1,792
(a) Estimated # of Students Needing Alcohol Abuse Treatment	3	49	131	163
(b) Estimated # of Students Needing Drug Abuse Treatment	2	31	139	152
(c) Estimated # of Students Needing Any Substance Abuse Treatment	4	59	212	224

NOTE: See notes related to treatment needs on page 273. The estimated number of students needing treatment are calculated prior to rounding the percentages needing treatment to one decimal place. Thus, multiplying the percentage needing treatment in a particular grade by the total student population in that grade will, in some circumstances, reflect a slightly different number than that depicted in the table.

TABLE 27B
Central District Treatment Needs Based on the DSM-III-R Criteria for
Public School Sixth, Eighth, Tenth, and Twelfth Graders, 2003

CENTRAL DISTRICT TREATMENT NEEDS	6th Grade	8th Grade	10th Grade	12th Grade
ALCOHOL TREATMENT NEEDS (abuse or dependency)	0.0%	1.7%	6.4%	9.5%
<i>Alcohol Abuse</i>	0.0%	0.7%	1.2%	1.7%
<i>Alcohol Dependency</i>	0.0%	1.0%	5.2%	7.9%
DRUG TREATMENT NEEDS (abuse or dependency of any illicit drug)	0.3%	2.2%	6.0%	8.6%
1. Marijuana Treatment Needs (abuse or dependency)	0.1%	1.5%	5.7%	7.8%
<i>Marijuana Abuse</i>	0.0%	0.2%	1.6%	1.5%
<i>Marijuana Dependency</i>	0.1%	1.3%	4.1%	6.3%
2. Stimulant Treatment Needs (abuse or dependency)	0.0%	0.3%	0.2%	0.7%
<i>Stimulant Abuse</i>	0.0%	0.0%	0.0%	0.4%
<i>Stimulant Dependency</i>	0.0%	0.3%	0.2%	0.3%
3. Depressant Treatment Needs (abuse or dependency)	0.2%	0.7%	0.5%	0.0%
<i>Depressant Abuse</i>	0.0%	0.0%	0.0%	0.0%
<i>Depressant Dependency</i>	0.2%	0.7%	0.5%	0.0%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.0%	0.4%	0.0%	0.2%
<i>Hallucinogen Abuse</i>	0.0%	0.1%	0.0%	0.2%
<i>Hallucinogen Dependency</i>	0.0%	0.3%	0.0%	0.0%
5. Club Drugs Treatment Needs (abuse or dependency)	0.2%	1.3%	0.5%	0.4%
<i>Club Drugs Abuse</i>	0.0%	0.6%	0.0%	0.4%
<i>Club Drugs Dependency</i>	0.2%	0.7%	0.5%	0.0%
SUMMARY OF TREATMENT NEEDS				
Alcohol Treatment Needs <i>Only</i>	0.0%	0.7%	2.9%	5.3%
Drug Treatment Needs <i>Only</i>	0.3%	1.3%	2.7%	4.5%
Both Alcohol and Drug Treatment Needs	0.0%	1.0%	3.5%	4.3%
Total Treatment Needs (Alcohol and/or Drug)	0.3%	3.0%	9.1%	14.1%
Total Student Population	2,483	2,372	2,249	1,768
(a) Estimated # of Students Needing Alcohol Abuse Treatment	0	39	143	169
(b) Estimated # of Students Needing Drug Abuse Treatment	7	52	134	153
(c) Estimated # of Students Needing Any Substance Abuse Treatment	8	70	204	249

NOTE: See notes related to treatment needs on page 273. The estimated number of students needing treatment are calculated prior to rounding the percentages needing treatment to one decimal place. Thus, multiplying the percentage needing treatment in a particular grade by the total student population in that grade will, in some circumstances, reflect a slightly different number than that depicted in the table.

TABLE 27C
Leeward District Treatment Needs Based on the DSM-III-R Criteria for
Public School Sixth, Eighth, Tenth, and Twelfth Graders, 2003

LEEWARD DISTRICT TREATMENT NEEDS	6th Grade	8th Grade	10th Grade	12th Grade
ALCOHOL TREATMENT NEEDS (abuse or dependency)	0.6%	2.6%	6.5%	10.8%
<i>Alcohol Abuse</i>	0.2%	1.0%	0.5%	1.6%
<i>Alcohol Dependency</i>	0.4%	1.6%	6.0%	9.2%
DRUG TREATMENT NEEDS (abuse or dependency of any illicit drug)	0.5%	2.3%	6.8%	7.9%
1. Marijuana Treatment Needs (abuse or dependency)	0.4%	1.8%	6.0%	7.5%
<i>Marijuana Abuse</i>	0.2%	0.7%	0.8%	0.9%
<i>Marijuana Dependency</i>	0.2%	1.1%	5.1%	6.6%
2. Stimulant Treatment Needs (abuse or dependency)	0.2%	1.0%	0.6%	1.4%
<i>Stimulant Abuse</i>	0.0%	0.3%	0.3%	0.0%
<i>Stimulant Dependency</i>	0.2%	0.7%	0.3%	1.4%
3. Depressant Treatment Needs (abuse or dependency)	0.2%	0.6%	0.7%	0.9%
<i>Depressant Abuse</i>	0.1%	0.2%	0.2%	0.3%
<i>Depressant Dependency</i>	0.2%	0.4%	0.5%	0.5%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.2%	0.4%	0.0%	1.5%
<i>Hallucinogen Abuse</i>	0.0%	0.3%	0.0%	0.0%
<i>Hallucinogen Dependency</i>	0.2%	0.1%	0.0%	1.5%
5. Club Drugs Treatment Needs (abuse or dependency)	0.2%	0.7%	0.5%	0.9%
<i>Club Drugs Abuse</i>	0.0%	0.3%	0.0%	0.4%
<i>Club Drugs Dependency</i>	0.2%	0.4%	0.5%	0.5%
SUMMARY OF TREATMENT NEEDS				
Alcohol Treatment Needs <i>Only</i>	0.3%	1.1%	3.1%	4.6%
Drug Treatment Needs <i>Only</i>	0.2%	0.9%	3.6%	1.8%
Both Alcohol and Drug Treatment Needs	0.3%	1.6%	3.4%	6.2%
Total Treatment Needs (Alcohol and/or Drug)	0.8%	3.5%	10.1%	12.6%
Total Student Population	3,192	3,203	2,663	1,934
(a) Estimated # of Students Needing Alcohol Abuse Treatment	19	84	174	209
(b) Estimated # of Students Needing Drug Abuse Treatment	15	74	182	152
(c) Estimated # of Students Needing Any Substance Abuse Treatment	24	112	269	244

NOTE: See notes related to treatment needs on page 273. The estimated number of students needing treatment are calculated prior to rounding the percentages needing treatment to one decimal place. Thus, multiplying the percentage needing treatment in a particular grade by the total student population in that grade will, in some circumstances, reflect a slightly different number than that depicted in the table.

TABLE 27D
Windward District Treatment Needs Based on the DSM-III-R Criteria for
Public School Sixth, Eighth, Tenth, and Twelfth Graders, 2003

WINDWARD DISTRICT TREATMENT NEEDS	6th Grade	8th Grade	10th Grade	12th Grade
ALCOHOL TREATMENT NEEDS (abuse or dependency)	0.5%	2.5%	11.7%	13.4%
<i>Alcohol Abuse</i>	0.2%	0.3%	2.7%	0.7%
<i>Alcohol Dependency</i>	0.3%	2.2%	9.0%	12.8%
DRUG TREATMENT NEEDS (abuse or dependency of any illicit drug)	0.7%	2.3%	7.1%	12.2%
1. Marijuana Treatment Needs (abuse or dependency)	0.7%	2.3%	6.2%	11.4%
<i>Marijuana Abuse</i>	0.2%	1.0%	1.8%	1.7%
<i>Marijuana Dependency</i>	0.5%	1.3%	4.4%	9.7%
2. Stimulant Treatment Needs (abuse or dependency)	0.2%	0.0%	1.3%	2.3%
<i>Stimulant Abuse</i>	0.2%	0.0%	0.5%	1.3%
<i>Stimulant Dependency</i>	0.0%	0.0%	0.8%	1.0%
3. Depressant Treatment Needs (abuse or dependency)	0.3%	0.0%	1.4%	1.3%
<i>Depressant Abuse</i>	0.0%	0.0%	0.5%	0.0%
<i>Depressant Dependency</i>	0.3%	0.0%	0.9%	1.3%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.3%	0.0%	1.4%	1.3%
<i>Hallucinogen Abuse</i>	0.0%	0.0%	0.5%	1.3%
<i>Hallucinogen Dependency</i>	0.3%	0.0%	0.9%	0.0%
5. Club Drugs Treatment Needs (abuse or dependency)	0.3%	0.0%	2.3%	1.3%
<i>Club Drugs Abuse</i>	0.0%	0.0%	1.4%	0.0%
<i>Club Drugs Dependency</i>	0.3%	0.0%	0.9%	1.3%
SUMMARY OF TREATMENT NEEDS				
Alcohol Treatment Needs <i>Only</i>	0.0%	1.1%	5.3%	4.0%
Drug Treatment Needs <i>Only</i>	0.3%	1.1%	0.9%	3.2%
Both Alcohol and Drug Treatment Needs	0.5%	1.4%	6.5%	9.6%
Total Treatment Needs (Alcohol and/or Drug)	0.8%	3.6%	12.7%	16.7%
Total Student Population	1,343	1,207	1,187	968
(a) Estimated # of Students Needing Alcohol Abuse Treatment	6	30	139	130
(b) Estimated # of Students Needing Drug Abuse Treatment	10	28	85	118
(c) Estimated # of Students Needing Any Substance Abuse Treatment	10	43	151	162

NOTES: See notes related to treatment needs on page 273. The estimated number of students needing treatment are calculated prior to rounding the percentages needing treatment to one decimal place. Thus, multiplying the percentage needing treatment in a particular grade by the total student population in that grade will, in some circumstances, reflect a slightly different number than that depicted in the table.

TABLE 27E
Hawaii District Treatment Needs Based on the DSM-III-R Criteria for
Public School Sixth, Eighth, Tenth, and Twelfth Graders, 2003

HAWAII DISTRICT TREATMENT NEEDS	6th Grade	8th Grade	10th Grade	12th Grade
ALCOHOL TREATMENT NEEDS (abuse or dependency)	0.2%	3.0%	10.7%	20.9%
<i>Alcohol Abuse</i>	0.0%	0.6%	1.8%	6.8%
<i>Alcohol Dependency</i>	0.2%	2.3%	9.0%	14.1%
DRUG TREATMENT NEEDS (abuse or dependency of any illicit drug)	0.6%	2.7%	8.6%	15.6%
1. Marijuana Treatment Needs (abuse or dependency)	0.6%	2.1%	7.6%	14.0%
<i>Marijuana Abuse</i>	0.1%	0.5%	2.0%	4.5%
<i>Marijuana Dependency</i>	0.4%	1.6%	5.7%	9.5%
2. Stimulant Treatment Needs (abuse or dependency)	0.1%	0.3%	1.0%	1.4%
<i>Stimulant Abuse</i>	0.1%	0.0%	0.3%	0.8%
<i>Stimulant Dependency</i>	0.0%	0.3%	0.8%	0.6%
3. Depressant Treatment Needs (abuse or dependency)	0.1%	0.9%	1.0%	1.4%
<i>Depressant Abuse</i>	0.1%	0.6%	0.0%	0.4%
<i>Depressant Dependency</i>	0.0%	0.3%	1.0%	1.0%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.1%	0.3%	1.2%	1.7%
<i>Hallucinogen Abuse</i>	0.1%	0.0%	0.7%	0.4%
<i>Hallucinogen Dependency</i>	0.0%	0.3%	0.5%	1.3%
5. Club Drugs Treatment Needs (abuse or dependency)	0.1%	0.3%	1.5%	2.7%
<i>Club Drugs Abuse</i>	0.1%	0.0%	0.5%	1.7%
<i>Club Drugs Dependency</i>	0.0%	0.3%	1.0%	1.0%
SUMMARY OF TREATMENT NEEDS				
Alcohol Treatment Needs <i>Only</i>	0.1%	0.6%	4.0%	8.1%
Drug Treatment Needs <i>Only</i>	0.5%	0.6%	2.1%	2.9%
Both Alcohol and Drug Treatment Needs	0.1%	2.3%	6.8%	13.2%
Total Treatment Needs (Alcohol and/or Drug)	0.7%	3.6%	13.0%	24.1%
Total Student Population	1,762	1,776	1,866	1,582
(a) Estimated # of Students Needing Alcohol Abuse Treatment	4	52	200	331
(b) Estimated # of Students Needing Drug Abuse Treatment	10	48	161	246
(c) Estimated # of Students Needing Any Substance Abuse Treatment	12	63	242	382

NOTE: See notes related to treatment needs on page 273. The estimated number of students needing treatment are calculated prior to rounding the percentages needing treatment to one decimal place. Thus, multiplying the percentage needing treatment in a particular grade by the total student population in that grade will, in some circumstances, reflect a slightly different number than that depicted in the table.

TABLE 27F
Kauai District Treatment Needs Based on DSM-III-R Criteria for
Public School Sixth, Eighth, Tenth, and Twelfth Graders, 2003

KAUAI DISTRICT TREATMENT NEEDS	6th Grade	8th Grade	10th Grade	12th Grade
ALCOHOL TREATMENT NEEDS (abuse or dependency)	0.7%	5.6%	3.5%	16.5%
<i>Alcohol Abuse</i>	0.7%	0.4%	0.6%	5.9%
<i>Alcohol Dependency</i>	0.0%	5.2%	2.9%	10.5%
DRUG TREATMENT NEEDS (abuse or dependency of any illicit drug)	0.4%	4.5%	5.4%	17.6%
1. Marijuana Treatment Needs (abuse or dependency)	0.4%	4.5%	4.8%	17.6%
<i>Marijuana Abuse</i>	0.4%	0.0%	0.0%	7.4%
<i>Marijuana Dependency</i>	0.0%	4.5%	4.8%	10.2%
2. Stimulant Treatment Needs (abuse or dependency)	0.4%	0.9%	0.6%	0.0%
<i>Stimulant Abuse</i>	0.4%	0.4%	0.0%	0.0%
<i>Stimulant Dependency</i>	0.0%	0.5%	0.6%	0.0%
3. Depressant Treatment Needs (abuse or dependency)	0.4%	0.5%	1.0%	0.8%
<i>Depressant Abuse</i>	0.4%	0.0%	0.0%	0.0%
<i>Depressant Dependency</i>	0.0%	0.5%	1.0%	0.8%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.4%	0.5%	0.6%	0.8%
<i>Hallucinogen Abuse</i>	0.4%	0.0%	0.0%	0.8%
<i>Hallucinogen Dependency</i>	0.0%	0.5%	0.6%	0.0%
5. Club Drugs Treatment Needs (abuse or dependency)	0.4%	0.5%	1.0%	0.8%
<i>Club Drugs Abuse</i>	0.4%	0.0%	0.0%	0.0%
<i>Club Drugs Dependency</i>	0.0%	0.5%	1.0%	0.8%
SUMMARY OF TREATMENT NEEDS				
Alcohol Treatment Needs <i>Only</i>	0.3%	1.5%	0.0%	3.8%
Drug Treatment Needs <i>Only</i>	0.0%	0.7%	2.1%	5.0%
Both Alcohol and Drug Treatment Needs	0.4%	4.1%	3.5%	13.0%
Total Treatment Needs (Alcohol and/or Drug)	0.7%	6.3%	5.6%	21.9%
Total Student Population	768	811	842	693
(a) Estimated # of Students Needing Alcohol Abuse Treatment	6	46	30	114
(b) Estimated # of Students Needing Drug Abuse Treatment	3	37	45	122
(c) Estimated # of Students Needing Any Substance Abuse Treatment	6	51	47	151

NOTE: See notes related to treatment needs on page 273. The estimated number of students needing treatment are calculated prior to rounding the percentages needing treatment to one decimal place. Thus, multiplying the percentage needing treatment in a particular grade by the total student population in that grade will, in some circumstances, reflect a slightly different number than that depicted in the table.

TABLE 27G
Maui District Treatment Needs Based on the DSM-III-R Criteria for
Public School Sixth, Eighth, Tenth, and Twelfth Graders, 2003

MAUI DISTRICT TREATMENT NEEDS	6th Grade	8th Grade	10th Grade	12th Grade
ALCOHOL TREATMENT NEEDS (abuse or dependency)	1.1%	2.7%	12.1%	16.3%
<i>Alcohol Abuse</i>	0.8%	0.4%	3.9%	5.4%
<i>Alcohol Dependency</i>	0.3%	2.3%	8.2%	10.9%
DRUG TREATMENT NEEDS (abuse or dependency of any illicit drug)	1.0%	4.2%	9.3%	13.3%
1. Marijuana Treatment Needs (abuse or dependency)	0.7%	4.1%	8.4%	12.6%
<i>Marijuana Abuse</i>	0.7%	1.6%	2.1%	4.7%
<i>Marijuana Dependency</i>	0.0%	2.5%	6.3%	7.9%
2. Stimulant Treatment Needs (abuse or dependency)	0.7%	0.2%	0.4%	1.0%
<i>Stimulant Abuse</i>	0.7%	0.2%	0.4%	0.0%
<i>Stimulant Dependency</i>	0.0%	0.0%	0.0%	1.0%
3. Depressant Treatment Needs (abuse or dependency)	1.0%	0.0%	0.4%	0.5%
<i>Depressant Abuse</i>	0.7%	0.0%	0.0%	0.0%
<i>Depressant Dependency</i>	0.2%	0.0%	0.4%	0.5%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.7%	0.2%	0.0%	0.5%
<i>Hallucinogen Abuse</i>	0.7%	0.2%	0.0%	0.0%
<i>Hallucinogen Dependency</i>	0.0%	0.0%	0.0%	0.5%
5. Club Drugs Treatment Needs (abuse or dependency)	0.7%	0.0%	0.8%	0.8%
<i>Club Drugs Abuse</i>	0.4%	0.0%	0.4%	0.4%
<i>Club Drugs Dependency</i>	0.2%	0.0%	0.4%	0.5%
SUMMARY OF TREATMENT NEEDS				
Alcohol Treatment Needs <i>Only</i>	0.3%	0.4%	6.7%	6.6%
Drug Treatment Needs <i>Only</i>	0.3%	2.1%	4.3%	4.2%
Both Alcohol and Drug Treatment Needs	0.8%	2.3%	5.2%	9.7%
Total Treatment Needs (Alcohol and/or Drug)	1.4%	4.8%	16.3%	20.4%
Total Student Population	1,478	1,663	1,567	1,301
(a) Estimated # of Students Needing Alcohol Abuse Treatment	16	45	189	211
(b) Estimated # of Students Needing Drug Abuse Treatment	14	69	146	173
(c) Estimated # of Students Needing Any Substance Abuse Treatment	20	79	255	266

NOTE: See notes related to treatment needs on page 273. The estimated number of students needing treatment are calculated prior to rounding the percentages needing treatment to one decimal place. Thus, multiplying the percentage needing treatment in a particular grade by the total student population in that grade will, in some circumstances, reflect a slightly different number than that depicted in the table.

Notes for Treatment Needs Tables

Calculations of Treatment Needs

A substance abuse/dependency diagnosis is calculated based on the student's responses to items that correspond with the DSM-III-R criteria, which assess a variety of negative consequences related to substance use. Students responded to abuse and dependency questions for each of the following substances: alcohol, marijuana, stimulants (cocaine, methamphetamine, speed), depressants or downers (sedatives, heroin), hallucinogens, and "club drugs" (ecstasy/MDMA, GHB, Rohypnol, ketamine).

Substance dependency is the most severe diagnosis. Substance dependency is indicated by the student's responses to nine different diagnostic criteria for dependency (e.g., marked tolerance, withdrawal symptoms, use of substances to relieve/avoid withdrawal symptoms, persistent desire or effort to stop use, using more than intended, neglect of activities, great deal of time spent using/obtaining the substance, inability to fulfill roles, drinking or using substances despite having problems). A student is considered dependent on a substance if he/she marked "yes" to at least three DSM-III-R symptoms and if for at least two of the symptoms, he/she indicated that it occurred several times.

Substance abuse is a residual category for those who don't meet the criteria of dependence but who use substances in dangerous situations or who use substances despite having physical, social, psychological, or occupational problems related to their substance use. Abuse is indicated by at least one of the following: (1) continued use of the substance despite knowledge of having a persistent or recurrent problem(s) at school, home, work, or with friends because of the substance; and (2) substance use in situations in which use is physically hazardous (e.g., drinking or using drugs when involved in activities that could have increased the student's chance of getting hurt – for instance, using a knife, climbing, swimming, or driving a vehicle). For the student to be classified as abusing a substance, at least one of the two abuse symptoms must have occurred more than once in a single month or several times within the last year. In addition, the student must not meet the criteria for dependency on that substance.

To be considered non-dependent or a non-abuser, the student must have answered all the DSM-III-R questions related to a specific substance abuse/dependency diagnosis. The exceptions to this rule were if the student answered on the question preceding the DSM-III-R questions that he/she had not used alcohol or drugs in the past 12 months or the student indicated on the lifetime prevalence question regarding the particular substance that he/she never used that substance. All DSM-III-R items needed to be answered by the student for him/her to be classified as non-dependent or a non-abuser because a non-response does not necessarily mean the student did not fit that particular criteria. The exception to this rule is if the student reported never using the particular substance in his/her lifetime or reported that he/she had not used alcohol or drugs in the past 12 months; in these cases, the student was allowed to skip the DSM-III-R questions, and the blank items legitimately reflected non-dependence or non-abuse. To be considered dependent on a substance, a student merely had to meet the requirements for dependency. Thus, if the student answered only some of the items, but at least three of the items signified a dependency diagnosis, the student was considered dependent. Additionally, some students completed the alcohol abuse/dependency items and not all of the drug abuse/dependency items. As a result, there are times when the total treatment needs for any alcohol abuse will differ from the sum of its parts (alcohol abuse only, both alcohol and drug abuse). For instance, as seen in Table 25, 12.3% of the 12th-grade students from private schools are reported to need treatment for any alcohol abuse/dependency (i.e., alcohol treatment needs). Adding the percentages under "Summary of Treatment Needs" for alcohol treatment needs *only* (5.4%) and *both* alcohol and drug treatment needs (7.1%) results in 12.5% of 12th-grade private school students in need of treatment for alcohol abuse/dependency. The most accurate percentage for *any* alcohol abuse treatment need is 12.3% because this percentage includes all of the respondents who completed the alcohol abuse/dependency questions. Adding the sum of its parts, on the other hand, results in a percentage that includes those students who failed to complete all the drug abuse/dependency questions but who did complete all the alcohol abuse/dependency questions.

Percentages of total treatment needs also may not equal the sum of its parts because of rounding. For instance, in Table 24, 0.3% of the 6th-grade students are reported to either abuse or be dependent on alcohol. However, 0.2% of the students abuse alcohol and 0.2% of the students are alcohol dependent, adding to 0.4%. This difference of 0.1% is because of rounding.

The total number of students estimated to need treatment is calculated by multiplying the total student population for each grade by a two-digit decimal place percentage of students who have (a) any alcohol treatment needs, (b) any drug treatment needs, or (c) treatment needs for alcohol and/or drugs. For instance, in Table 24, the total number of 12th-grade students statewide needing treatment for any alcohol abuse ($n=1,674$) was calculated by multiplying the total alcohol treatment needs percentage (13.05%) by the total student population enrollment in grade 12 (12,824).

Chapter 6

- As seen in Figure 38a, *district-level alcohol treatment needs* are 1% or less in grade 6 for all districts. In grade 8, alcohol treatment needs are higher in Kauai District (6%), compared to all other districts (3% or less). In grade 10, alcohol treatment needs are highest in Windward and Maui Districts (12%), compared to Hawaii District (11%), Leeward District (7%), Honolulu and Central Districts (6% each), and Kauai District (4%). In grade 12, alcohol treatment needs are highest in Hawaii District (21%), compared to Kauai (17%), Maui (16%), Windward (13%), Leeward (11%), Central (10%), and Honolulu Districts (9%).
- *District-level marijuana treatment needs* are 1% or less in grade 6. In grade 8, marijuana treatment needs are twice as high in Kauai (5%) and Maui Districts (4%) compared to all other districts (2% or less). In grade 10, marijuana treatment needs are highest in Maui and Hawaii Districts (8% each), followed by Honolulu, Central, Leeward, and Windward Districts (6%); 10th-grade marijuana treatment needs are the lowest in Kauai District (5%). Kauai District has twice as many seniors needing marijuana treatment as Honolulu, Central, and Leeward Districts; 18% of the seniors in Kauai District abuse marijuana compared to 8% in Honolulu, Central, and Leeward Districts.
- Treatment needs for illicit drugs other than marijuana are 3% or less for all districts at all grades and typically vary by less than 1 percentage point. Honolulu and Windward Districts have the largest proportion of 10th and 12th graders with *stimulant treatment needs*, compared to other districts (see Figure 38d). Hawaii and Windward Districts have the largest proportion of 10th and 12th graders needing *treatment for club drugs*, compared to other districts (see Figure 38g).
- Given that dependency and abuse of most illicit drugs are likely to hinder a student's ability to attend school on a regular basis, the treatment estimates based on an in-school survey may not be able to accurately reflect treatment needs differences across districts for stimulants, hallucinogens, club drugs, and depressants.

School Type, County-Level, and District-Level Treatment Need Estimates for Students in Grades 6 Through 12, 2003

Table 28 provides treatment need estimates for students in grades 6 through 12, by district and school type. These estimates are based on the percentage of students in grades 6, 7, 8, 9, 10, 11, and 12 who were diagnosed as needing treatment for alcohol and/or drug abuse based on the DSM-III-R survey questions. Some margin of error is likely to be present in the treatment needs estimates because many students who severely abuse alcohol and/or drugs are not likely to attend school on a regular basis. The final estimates for students in grade 6 through 12 are most likely under-representing adolescent treatment needs because drop-outs and absentees are not included in the study, and these adolescents probably include a large group of at-risk adolescents.

FIGURE 38
District Differences in Treatment Needs for Abuse of Various Substances:
Percentage of Public School Students in Each District Diagnosed as Needing Treatment
for Various Substances Based on the DSM-III-R Criteria, by Grade, 2003

(Entries are percentages %)

Figure 38a: Treatment Needs for **Alcohol**

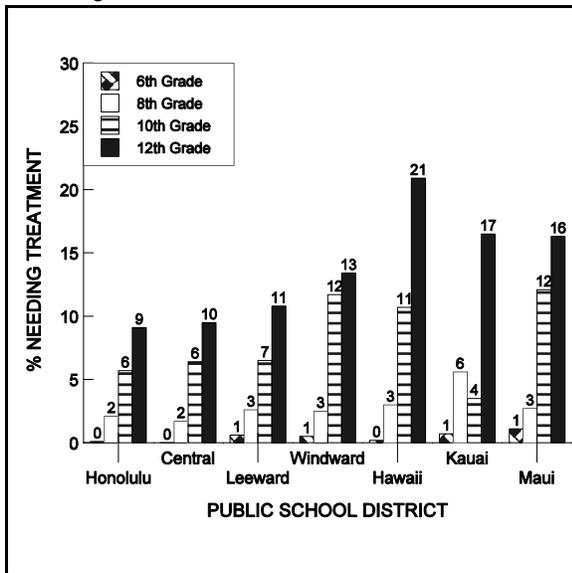


Figure 38b: Treatment Needs for **Any Illicit Drug**

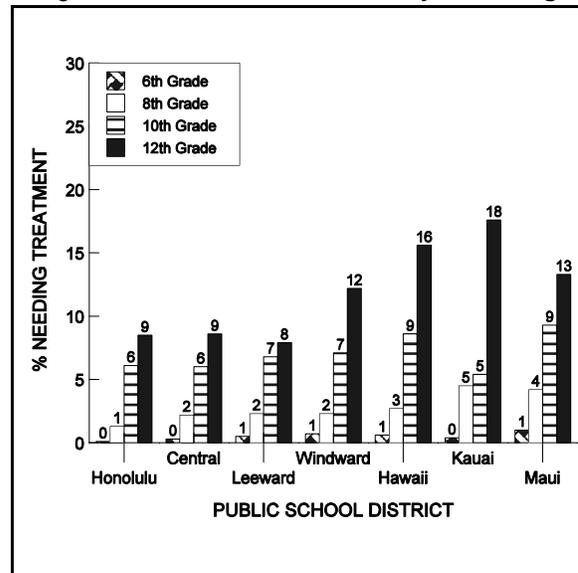


Figure 38c: Treatment Needs for **Marijuana**

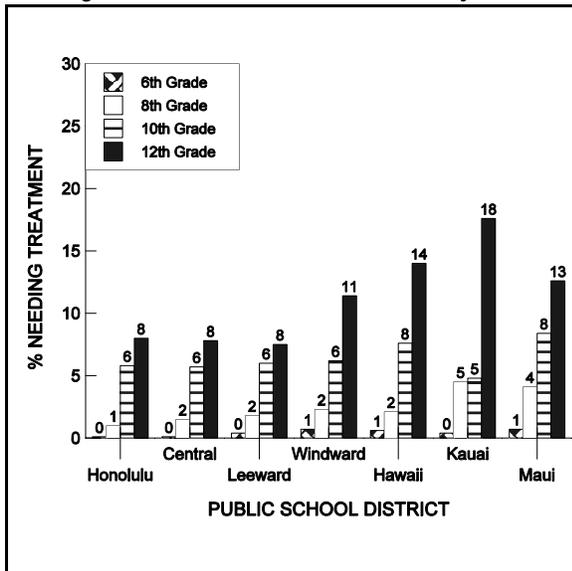
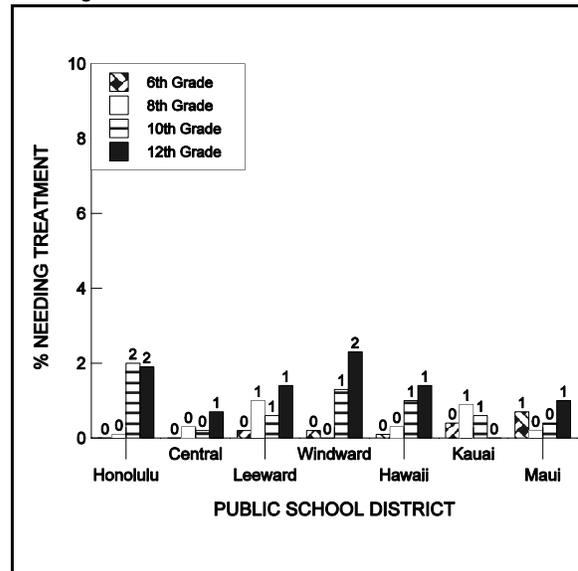


Figure 38d: Treatment Needs for **Stimulants**



(Figures continued on next page)

FIGURE 38 (continued)
District Differences in Treatment Needs for Abuse of Various Substances:
Percentage of Public School Students in Each District Diagnosed as Needing Treatment
for Various Substances Based on the DSM-III-R Criteria, by Grade, 2003

(Entries are percentages %)

Figure 38e: Treatment Needs for **Depressants**

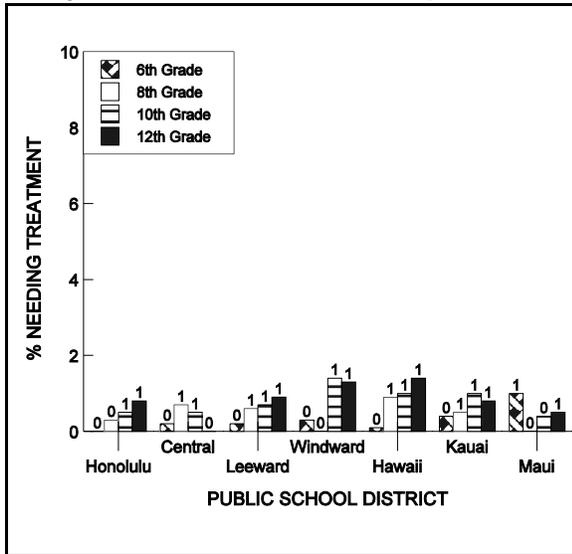


Figure 38f: Treatment Needs for **Hallucinogens**

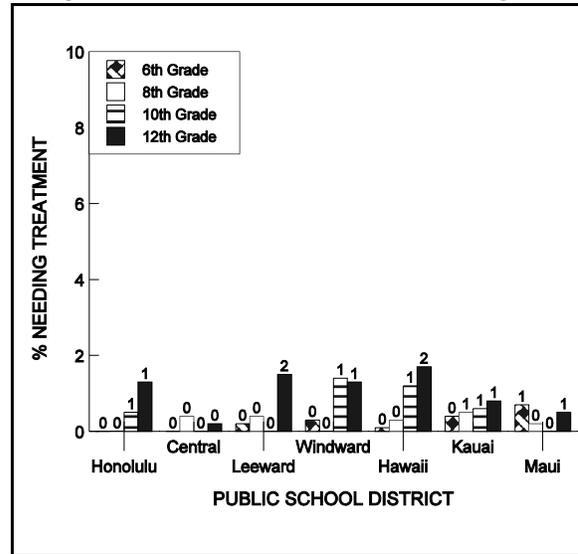
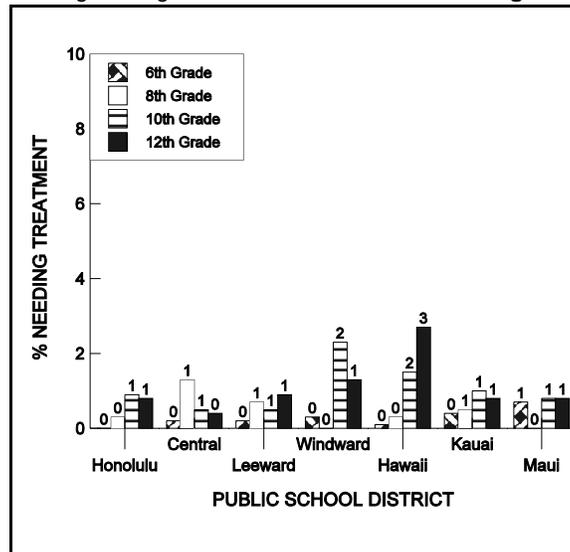


Figure 38g: Treatment Needs for **Club Drugs**



NOTES: The percentages reflect the total treatment needs (abuse or dependency diagnosis) for each type of substance. *District* includes public school students only. *Any Illicit Drug* includes abuse of or dependency on one or more of the illicit drugs (marijuana, stimulants, depressants, hallucinogens, or club drugs). *Stimulants* include cocaine, methamphetamine, and speed. *Depressants* include downers, sedatives, and heroin. *Club Drugs* include ecstasy/MDMA, GHB, Rohypnol, and ketamine.

TABLE 28
Statewide Treatment Needs in Grades 6 Through 12:
Estimated Number and Percentage of Students Needing Treatment for Alcohol and Drug Abuse, 2003

DISTRICT		Alcohol Abuse Only		Drug Abuse Only		Both Alcohol and Drug Abuse		ANY SUBSTANCE ABUSE		Any Alcohol Abuse		Any Drug Abuse	
		N	%	n	%	n	%	n	%	n	%	n	
Honolulu													
6th Grade	2,507	0.1%	3	0.1%	2	0.0%	0	0.2%	4	0.1%	3	0.1%	2
7th Grade	2,445	0.9%	22	0.2%	5	1.1%	26	2.1%	52	1.9%	47	1.2%	30
8th Grade	2,387	1.1%	27	0.4%	9	1.0%	23	2.5%	59	2.1%	49	1.3%	31
9th Grade	2,988	1.0%	31	1.2%	37	1.9%	57	4.2%	124	2.9%	86	3.1%	91
10th Grade	2,288	3.0%	68	3.5%	80	2.8%	64	9.3%	212	5.7%	131	6.1%	139
11th Grade	2,135	3.3%	69	2.1%	45	5.3%	113	10.6%	227	8.5%	182	7.3%	155
12th Grade	1,792	3.9%	69	3.3%	60	5.3%	95	12.5%	224	9.1%	163	8.5%	152
TOTAL	16,542	1.7%	289	1.4%	238	2.3%	378	5.5%	902	4.0%	661	3.6%	600
Central													
6th Grade	2,483	0.0%	0	0.3%	8	0.0%	0	0.3%	8	0.0%	0	0.3%	7
7th Grade	2,350	0.4%	10	0.0%	0	0.4%	8	0.8%	18	0.8%	18	0.3%	8
8th Grade	2,372	0.7%	16	1.3%	31	1.0%	24	3.0%	70	1.7%	39	2.2%	52
9th Grade	2,712	2.1%	57	1.0%	27	1.8%	49	4.9%	133	3.9%	105	2.7%	72
10th Grade	2,249	2.9%	66	2.7%	60	3.5%	78	9.1%	204	6.4%	143	6.0%	134
11th Grade	2,112	2.3%	48	5.6%	118	3.5%	75	11.4%	240	5.7%	121	8.9%	188
12th Grade	1,768	5.3%	94	4.5%	80	4.3%	75	14.1%	249	9.5%	169	8.6%	153
TOTAL	16,046	1.8%	291	2.0%	324	1.9%	309	5.7%	922	3.7%	595	3.8%	614
Leeward													
6th Grade	3,192	0.3%	9	0.2%	5	0.3%	10	0.8%	24	0.6%	19	0.5%	15
7th Grade	3,160	0.6%	19	0.8%	26	1.0%	31	2.4%	75	1.5%	49	1.7%	52
8th Grade	3,203	1.1%	35	0.9%	28	1.6%	50	3.5%	112	2.6%	84	2.3%	74
9th Grade	3,503	2.3%	80	2.1%	74	2.5%	88	6.9%	240	4.7%	165	4.4%	155
10th Grade	2,663	3.1%	84	3.6%	95	3.4%	91	10.1%	269	6.5%	174	6.8%	182
11th Grade	2,266	3.6%	82	3.8%	85	3.4%	77	10.8%	244	7.0%	158	6.8%	153
12th Grade	1,934	4.6%	90	1.8%	34	6.2%	120	12.6%	244	10.8%	209	7.9%	152
TOTAL	19,921	2.0%	399	1.7%	347	2.3%	467	6.1%	1,208	4.3%	858	3.9%	783

(Table continued on next page)

TABLE 28 (continued)
Statewide Treatment Needs in Grades 6 Through 12:
Estimated Number and Percentage of Students Needing Treatment for Alcohol and Drug Abuse, 2003

DISTRICT		Alcohol Abuse <i>Only</i>		Drug Abuse <i>Only</i>		<i>Both</i> Alcohol and Drug Abuse		ANY SUBSTANCE ABUSE		<i>Any</i> Alcohol Abuse		<i>Any</i> Drug Abuse	
		N	%	n	%	n	%	n	%	n	%	n	
Windward													
6th Grade	1,343	0.0%	0	0.3%	4	0.5%	6	0.8%	10	0.5%	6	0.7%	10
7th Grade	1,284	0.4%	5	0.4%	5	0.0%	0	0.8%	10	0.4%	5	0.4%	5
8th Grade	1,207	1.1%	14	1.1%	13	1.4%	16	3.6%	43	2.5%	30	2.3%	28
9th Grade	1,400	2.7%	38	2.7%	38	4.5%	63	9.9%	138	7.2%	100	7.0%	98
10th Grade	1,187	5.3%	63	0.9%	11	6.5%	77	12.7%	151	11.7%	139	7.1%	85
11th Grade	1,198	5.5%	66	5.2%	62	7.0%	84	17.7%	213	12.2%	146	12.1%	145
12th Grade	968	4.0%	38	3.2%	31	9.6%	93	16.7%	162	13.4%	130	12.2%	118
TOTAL	8,587	2.6%	224	1.9%	164	4.0%	339	8.5%	727	6.5%	556	5.7%	489
Hawaii													
6th Grade	1,762	0.1%	2	0.5%	8	0.1%	2	0.7%	12	0.2%	4	0.6%	10
7th Grade	1,832	0.7%	12	1.1%	20	0.2%	4	2.0%	37	0.9%	16	1.3%	24
8th Grade	1,776	0.6%	11	0.6%	10	2.3%	42	3.6%	63	3.0%	52	2.7%	48
9th Grade	2,063	3.4%	70	2.4%	50	3.1%	65	9.0%	185	6.5%	135	5.5%	113
10th Grade	1,866	4.0%	75	2.1%	39	6.8%	127	13.0%	242	10.7%	200	8.6%	161
11th Grade	1,853	8.2%	152	5.6%	103	8.3%	154	22.1%	409	16.3%	302	13.2%	244
12th Grade	1,582	8.1%	128	2.9%	45	13.2%	208	24.1%	382	20.9%	331	15.6%	246
TOTAL	12,734	3.5%	450	2.2%	275	4.7%	602	10.4%	1,330	8.2%	1,040	6.6%	846
Kauai													
6th Grade	768	0.3%	2	0.0%	0	0.4%	3	0.7%	6	0.7%	6	0.4%	3
7th Grade	828	0.0%	0	0.9%	7	0.0%	0	0.9%	7	0.0%	0	0.8%	7
8th Grade	811	1.5%	12	0.7%	5	4.1%	33	6.3%	51	5.6%	46	4.5%	37
9th Grade	898	2.0%	18	3.0%	26	2.0%	18	6.9%	62	3.9%	35	4.7%	43
10th Grade	842	0.0%	0	2.1%	18	3.5%	30	5.6%	47	3.5%	30	5.4%	45
11th Grade	792	3.8%	30	1.6%	13	3.1%	25	8.6%	68	6.9%	55	4.7%	37
12th Grade	693	3.8%	26	5.0%	35	13.0%	90	21.9%	151	16.5%	114	17.6%	122
TOTAL	5,632	1.6%	88	1.9%	104	3.5%	199	7.0%	392	5.1%	286	5.2%	294

(Table continued on next page)

TABLE 28 (continued)
Statewide Treatment Needs in Grades 6 Through 12:
Estimated Number and Percentage of Students Needing Treatment for Alcohol and Drug Abuse, 2003

DISTRICT		Alcohol Abuse <i>Only</i>		Drug Abuse <i>Only</i>		<i>Both</i> Alcohol and Drug Abuse		ANY SUBSTANCE ABUSE		<i>Any</i> Alcohol Abuse		<i>Any</i> Drug Abuse	
		N	%	n	%	n	%	n	%	n	%	n	
Maui													
6th Grade	1,478	0.3%	5	0.3%	4	0.8%	12	1.4%	20	1.1%	16	1.0%	14
7th Grade	1,538	0.5%	8	0.9%	14	0.0%	0	1.5%	22	0.5%	8	0.9%	13
8th Grade	1,663	0.4%	6	2.1%	35	2.3%	39	4.8%	79	2.7%	45	4.2%	69
9th Grade	1,822	2.4%	43	3.2%	59	1.6%	30	7.2%	132	4.0%	73	4.6%	85
10th Grade	1,567	6.7%	106	4.3%	68	5.2%	81	16.3%	255	12.1%	189	9.3%	146
11th Grade	1,607	4.5%	73	4.1%	67	8.2%	131	16.8%	270	12.7%	204	12.0%	193
12th Grade	1,301	6.6%	85	4.2%	54	9.7%	126	20.4%	266	16.3%	211	13.3%	173
TOTAL	10,976	3.0%	326	2.7%	301	3.8%	419	9.5%	1,044	6.8%	746	6.3%	693
Public Schools	90,438	2.3%	2,067	1.9%	1,753	3.0%	2,713	7.2%	6,525	5.2%	4,742	4.8%	4,319
Private/Charter Schools													
6th Grade	3,116	0.1%	3	0.0%	0	0.0%	0	0.1%	3	0.1%	3	0.0%	0
7th Grade	3,663	0.8%	29	0.1%	3	0.5%	18	1.4%	50	1.3%	47	0.6%	20
8th Grade	3,708	0.5%	20	0.3%	11	0.7%	27	1.6%	59	1.3%	47	1.0%	37
9th Grade	3,530	1.2%	42	1.1%	39	2.2%	77	4.5%	157	3.3%	118	3.2%	112
10th Grade	3,259	2.6%	83	1.2%	39	5.1%	165	8.8%	287	7.6%	248	6.1%	199
11th Grade	2,809	3.8%	106	1.9%	52	6.3%	176	11.9%	334	10.0%	281	7.9%	222
12th Grade	2,786	5.4%	150	2.3%	64	7.1%	197	14.8%	411	12.3%	344	9.2%	255
TOTAL	22,871	1.9%	433	0.9%	208	2.9%	660	5.7%	1,301	4.8%	1,088	3.7%	845
Statewide	113,309	2.2%	2,500	1.7%	1,961	3.0%	3,373	6.9%	7,826	5.1%	5,830	4.6%	5,164

NOTES: Treatment needs at each grade level are calculated by multiplying the percentage of survey respondents at each particular grade and district level who met the particular treatment need criteria by the corresponding student population at that grade and district level. See additional treatment needs notes on page 273. The category of private/charter schools includes both private and charter schools.

TABLE 29

**Summary of Statewide Treatment Needs for Students in Grades 6 Through 12, by County, District, and School Type:
Estimated Number and Percentage of Students Needing Treatment for Alcohol and Drug Abuse, 2003**

COUNTY/DISTRICT INFORMATION	Alcohol Abuse <i>Only Treatment Needs</i>		Drug Abuse <i>Only Treatment Needs</i>		<i>Both Alcohol and Drug Abuse Treatment Needs</i>		ANY SUBSTANCE ABUSE TREATMENT NEEDS		<i>Any Alcohol Abuse Treatment Needs</i>		<i>Any Drug Abuse Treatment Needs</i>		
	Total N	%	n	%	n	%	n	%	n	%	n	%	n
City & County of Honolulu	61,096	2.0%	1,203	1.8%	1,073	2.4%	1,493	6.2%	3,759	4.4%	2,670	4.1%	2,486
Honolulu District	16,542	1.7%	289	1.4%	238	2.3%	378	5.5%	902	4.0%	661	3.6%	600
Central District	16,046	1.8%	291	2.0%	324	1.9%	309	5.7%	922	3.7%	595	3.8%	614
Leeward District	19,921	2.0%	399	1.7%	347	2.3%	467	6.1%	1,208	4.3%	858	3.9%	783
Windward District	8,587	2.6%	224	1.9%	164	4.0%	339	8.5%	727	6.5%	556	5.7%	489
Hawaii County/District	12,734	3.5%	450	2.2%	275	4.7%	602	10.4%	1,330	8.2%	1,040	6.6%	846
Kauai County/District	5,632	1.6%	88	1.9%	104	3.5%	199	7.0%	392	5.1%	286	5.2%	294
Maui County/District	10,976	3.0%	326	2.7%	301	3.8%	419	9.5%	1,044	6.8%	746	6.3%	693
All Public Schools	90,438	2.3%	2,067	1.9%	1,753	3.0%	2,713	7.2%	6,525	5.2%	4,742	4.8%	4,319
Private/Charter Schools	22,871	1.9%	433	0.9%	208	2.9%	660	5.7%	1,301	4.8%	1,088	3.7%	845
TOTAL STATEWIDE	113,309	2.2%	2,500	1.7%	1,961	3.0%	3,373	6.9%	7,826	5.1%	5,830	4.6%	5,164

NOTES: A substance abuse/dependency diagnosis is calculated based on the student's response to items that correspond with the DSM-III-R criteria, which assess a variety of negative consequences related to substance use. Students responded to abuse and dependency questions for each of the following substances: alcohol, marijuana, stimulants (cocaine, methamphetamine, speed), depressants or downers (sedatives, heroin), hallucinogens, and club drugs (ecstasy, GHB, Rohypnol, ketamine). *Substance abuse* is indicated by at least one of the following: (1) continued use of the substance despite knowledge of having a persistent or recurrent problem(s) at school, home, work or with friends because of the substance, or (2) substance use in situations in which use is physically hazardous (e.g., drinking or using drugs when involved in activities that could have increased the student's chance of getting hurt). For the student to be classified as abusing a substance, at least one of the two abuse symptoms must have occurred more than once in a single month or several times within the last year. In addition, the student must not meet the criteria for dependency on that substance. *Substance dependency* is the most severe diagnosis. Substance dependency is indicated by the student's response to nine different diagnostic criteria for dependency (e.g., marked tolerance, withdrawal symptoms, use of substances to relieve/avoid withdrawal symptoms, persistent desire or effort to stop use, using more than intended, neglect of activities, great deal of time spent using or obtaining the substance, inability to fulfill roles, drinking or using substances despite having problems). A student is considered dependent on the substance if he/she marked "yes" to at least three DSM-III-R symptoms and if he/she indicated that at least two of the symptoms occurred several times. The abuse estimates above include students who *either* abuse or are dependent on a particular substance. Only public school students are included in the county and district estimates. See additional notes on page 273.

Table 29 summarizes the data from Table 28 and provides county and district treatment need estimates for public school students in grades 6 through 12, and for private/charter school students in grades 6 through 12. Total statewide treatment needs are also summarized in Table 29. The discussion in this section focuses on the information provided in Table 29.

Overview of Key Findings. Approximately 2,000 public school students in grades 6 through 12 are estimated to need treatment for alcohol abuse only; nearly 2,000 public school students in grades 6 through 12 are estimated to need treatment for drug abuse only; and just under 3,000 public school students in grades 6 through 12 are estimated to need treatment for both alcohol and drug abuse. Total treatment needs for public school students in grades 6 through 12 are estimated at 7%, or 6,525 public school students. Total treatment needs for private and charter school students in grades 6 through 12 are estimated at 6%, or 1,301 private/charter school students. Total treatment needs in the State of Hawaii in grades 6 through 12 are estimated at 7,826 students (7%). Thus, 1 out of 14 students in the State of Hawaii needs treatment for alcohol and/or drug abuse. Hawaii and Maui Districts have the largest proportions of students needing treatment. Hawaii District, followed by Leeward District, has the largest student population needing treatment.

- As seen in Table 29, 2% of public school students in grades 6 through 12 are estimated to need treatment for **alcohol abuse only**, 2% of public school students in grades 6 through 12 are estimated to need treatment for **drug abuse only**, and 3% of public school students are estimated to need treatment for **both alcohol and drug abuse**. The **total treatment needs** for public school students in grades 6 through 12 is estimated at 7%, or 6,525 public school students.
- Table 29 also includes treatment need estimates for private/charter school students in grades 6 through 12 and shows that 2% of private/charter school students in grades 6 through 12 are estimated to need treatment for **alcohol abuse only**, 1% of the private/charter school students in grades 6 through 12 are estimated to need treatment for **drug abuse only**, and 3% of the private school students are estimated to need treatment for **both alcohol and drug abuse**. The **total treatment needs** for private/charter school students in grades 6 through 12 is estimated at 6%, or 1,301 students.
- A larger percentage of public school students are estimated to need treatment for drug abuse only (2%) than private/charter school students (1%). However, the percentages of public and private/charter school students estimated to need treatment for alcohol abuse only (2% each) and both alcohol and drug abuse (3% each) are similar (see Table 29).
- **Total treatment needs** for the State of Hawaii for all students in grades 6 through 12 is estimated at 7,826 students, which equates to at least 1 out of 14 students statewide (7%) needing help for alcohol and/or drug abuse.
- The estimates in Table 29 show Hawaii and Maui Districts, compared to all other districts, have the largest proportion of students needing substance abuse treatment (10% each, compared to 9% in Windward District, 7% in Kauai District, and 6% in Honolulu, Central, and Leeward Districts). Hawaii District has the largest student population needing substance abuse treatment ($n = 1,330$), with Leeward ($n = 1,208$) close behind.

Trends in Statewide Treatment Needs, 1996-2003

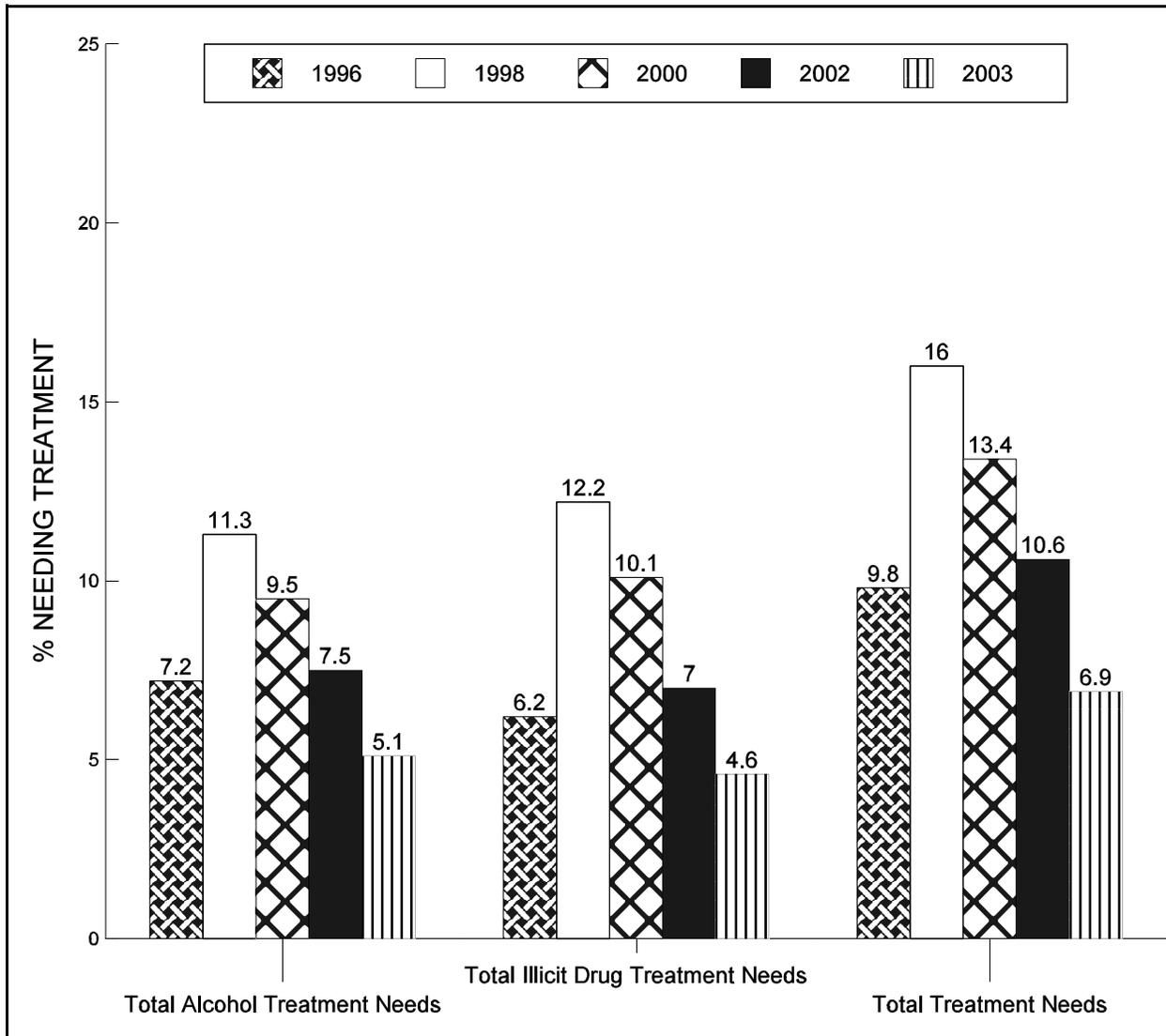
Figure 39 illustrates trends in statewide treatment needs for students in grades 6 through 12. Tables 30a through 30d (pages 288-291) list the statewide total treatment needs trend data and trend data for different subgroups, by grade-level of respondents. Tables 31a through 31d (pages 292-295) list the statewide alcohol versus drug treatment needs trend data and trend data for different subgroups, by grade-level of respondents. Figure 40 illustrates trends in DOE county treatment needs for students in grades 6 through 12 and Figure 41 illustrates trends in district treatment needs for students in grades 6 through 12. A discussion of trends in treatment needs statewide, across grades, counties, and districts follows.

Overview of Key Findings. Total statewide treatment needs among students in grades 6 through 12 increased substantially in 1998, and then started on a downward trajectory in 2000. The downward trend continued in 2002 and in 2003, with decreases occurring in all counties and all districts. Consistent with previous years, the City & County of Honolulu currently has lower treatment needs than other counties; Hawaii and Maui Counties have the highest treatment needs. Some of the largest percentage point decreases in treatment needs occurred in Windward and Kauai Districts – both dropped by at least 5 percentage points; total treatment needs in all other districts decreased by 2 to 4 percentage points (see Figure 41). Treatment needs in 2003 have dropped below levels reported in 1996 for all districts, except Windward District.

- **Trends in Statewide Treatment Needs in Grades 6 Through 12.** Figure 39 shows that total statewide treatment needs nearly doubled from 1996 to 1998, but have dropped each subsequent survey year. Total estimated treatment needs for students in grades 6 through 12 statewide were 10% in 1996, 16% in 1998, 13% in 2000, and 11% in 2002. In 2003, 7% of the students in grades 6 through 12 are estimated to need treatment. The decrease in total treatment needs brings statewide treatment needs to an all time record low. Figure 39 shows that the decline in treatment needs is for both alcohol and drug abuse.
- **Trends in Statewide Grade-Level Treatment Needs.** Table 30 shows that total statewide treatment needs increased drastically in the upper grade levels from 1996 to 1998, remained unchanged in grade 6, and increased slightly in grade 8. Total statewide treatment needs then dropped for each grade level in 2000. In 2002, total statewide treatment needs remained fairly stable at grade 6 but dropped in all other grades, with the biggest decrease noted in grade 12. In 2003, total statewide treatment needs dropped at all grade levels, bringing total treatment needs in grades 6, 8, and 10 to all-time lows. Tables 30 and 31 provide trend data in grade-level treatment needs (see pages 288-295).
 - Statewide treatment needs among *6th graders* for any alcohol, any drug, and any substance abuse remained unchanged from 1996 to 1998, and has declined each subsequent year. Total statewide treatment needs for 6th graders were 3% in 1996 and 1998, 1.5% in 2000, 1% in 2002, and 0.5% in 2003 (see Table 30a).

FIGURE 39
Trends in Statewide Treatment Needs:
Percentage of Students in Grades 6 Through 12 Diagnosed as Needing Treatment
for Alcohol and/or Drug Abuse Based on the DSM-III-R Criteria, 1996-2003

(Entries are percentages %)



NOTES: *Total Alcohol Treatment Needs* includes all students classified as dependent on or abusers of alcohol according to the DSM-III-R criteria. *Total Illicit Drug Treatment Needs* includes all students classified as dependent on or abusers of one or more illicit drugs (marijuana, stimulants, depressants, hallucinogens, or club drugs) according to the DSM-III-R criteria. *Total Treatment Needs* for any substance abuse includes students who are classified as dependent on or abusers of alcohol, illicit drugs, or both alcohol and illicit drugs, according to the DSM-III-R criteria. Some students who need treatment for alcohol abuse also need treatment for illicit drug abuse. Thus, the percentages for total alcohol treatment needs and total illicit drug treatment needs will not add up to the percentages reflecting total treatment needs for any substance abuse.

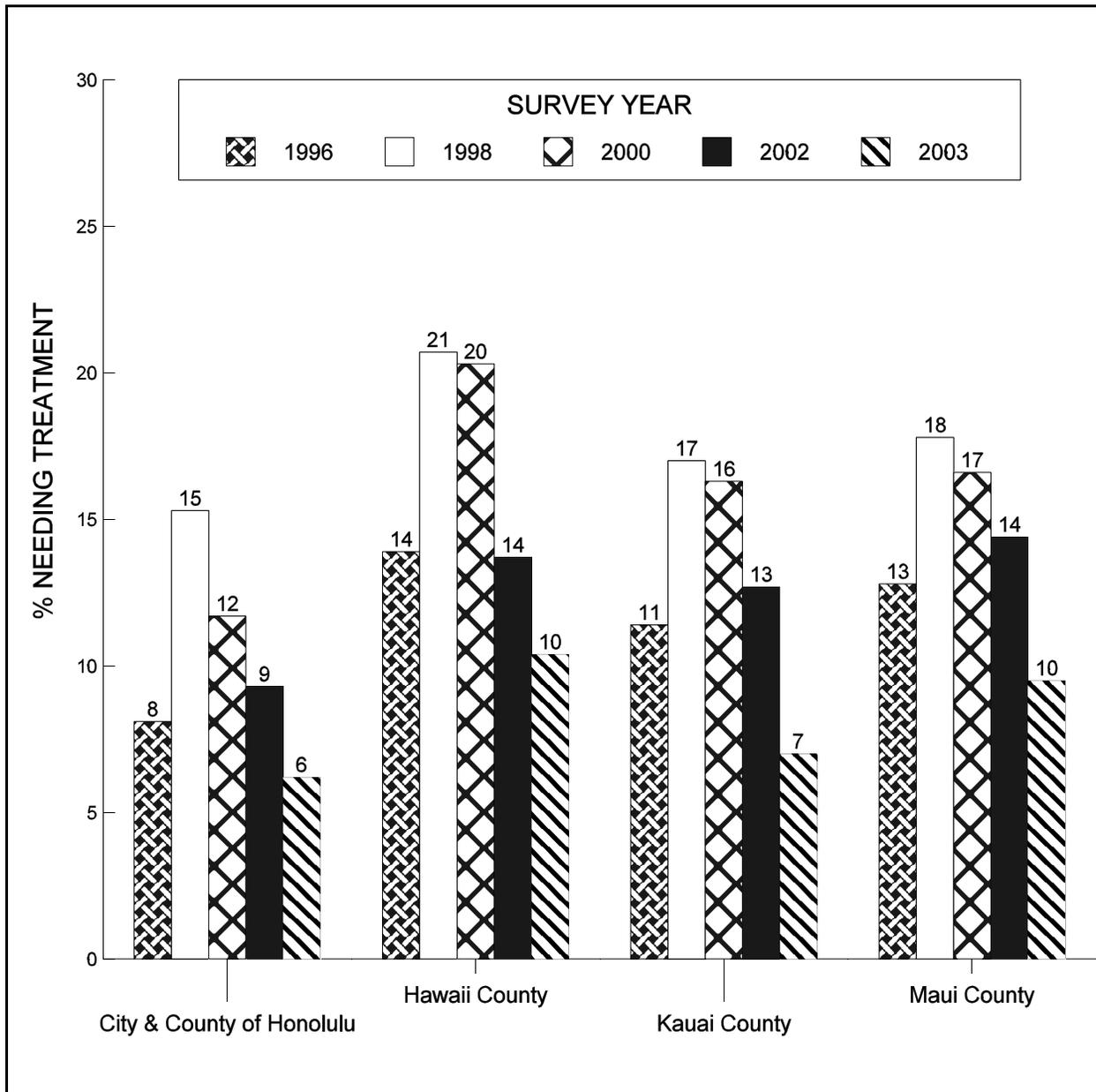
- Statewide treatment needs among **8th graders** for any alcohol, any drug, and any substance abuse have consistently dropped since 1998. A 50% decrease in total treatment needs for 8th-grade students occurred from 2002 (6%) to 2003 (3%).
- Statewide treatment needs for any substance abuse among **10th graders** increased by 9 percentage points in 1998, but then decreased each subsequent year. Total statewide treatment needs among 10th graders were up to 22% in 1998 and are currently at 11% (see Table 30c).
- Statewide treatment needs for any substance abuse among **12th graders** nearly doubled from 1996 to 1998, but decreased by 2 percentage points in 2000, by 6 percentage points in 2002, and by 5 percentage points in 2003. Total statewide treatment needs for 12th graders were 15% in 1996, 29% in 1998, 27% in 2000, and 21% in 2002. In 2003, total statewide treatment needs for 12th graders are 16%. The decreases over the years still leaves total treatment needs for 12th graders slightly higher than those reported in 1996.
- **Trends in County-Level Treatment Needs.** Over the years, the City & County of Honolulu has had substantially lower treatment needs than other counties and Hawaii County has typically had higher treatment needs than other counties. The trend continues in 2003 with the City & County of Honolulu having the lowest treatment needs and Hawaii County having the highest treatment needs. Kauai County witnessed the greatest decline in overall treatment needs in 2003, dropping by nearly 6 percentage points; total treatment needs in all other counties decreased by 3 to 5 percentage points (see Figure 40). Treatment needs in 2003 for all counties have dropped below levels reported in 1996.
- **Trends in District-Level Treatment Needs.** Figure 41 shows that total treatment needs nearly doubled across most districts from 1996 to 1998 and then dropped or remained unchanged in 2000. In 2002, total treatment needs dropped across all districts and the decline in treatment needs continued in 2003. With the exception of Windward District, treatment need estimates in 2003 are at least 2 percentage points lower than the 1996 estimates.

Some district changes occurred only in some grades. The discussion below first addresses district changes from 2002 to 2003 for students in grades 6 through 12 (see Figure 41) and then discusses district changes at various grade levels (see Tables 30a through 30d on pages 288-291, and Tables 31a through 31d on pages 292-295).

- From 2002 to 2003, total treatment needs in **Honolulu District** decreased by 2 percentage points (8% to 6%), bringing treatment need estimates below 1996 levels (see Figure 41). Table 30 shows that total treatment need estimates in Honolulu District have been consistently declining over the years in grades 6, 8, and 12. In grade 10, treatment needs remained relatively unchanged from 2000 to 2002, but dropped from 14% in 2002 to 9% in 2003.

FIGURE 40
DOE County Trends in Total Treatment Needs:
Percentage of Public School Students in Grades 6 Through 12 Needing Treatment for
Alcohol and/or Drug Abuse Based on the DSM-III-R Criteria, by County, 1996-2003

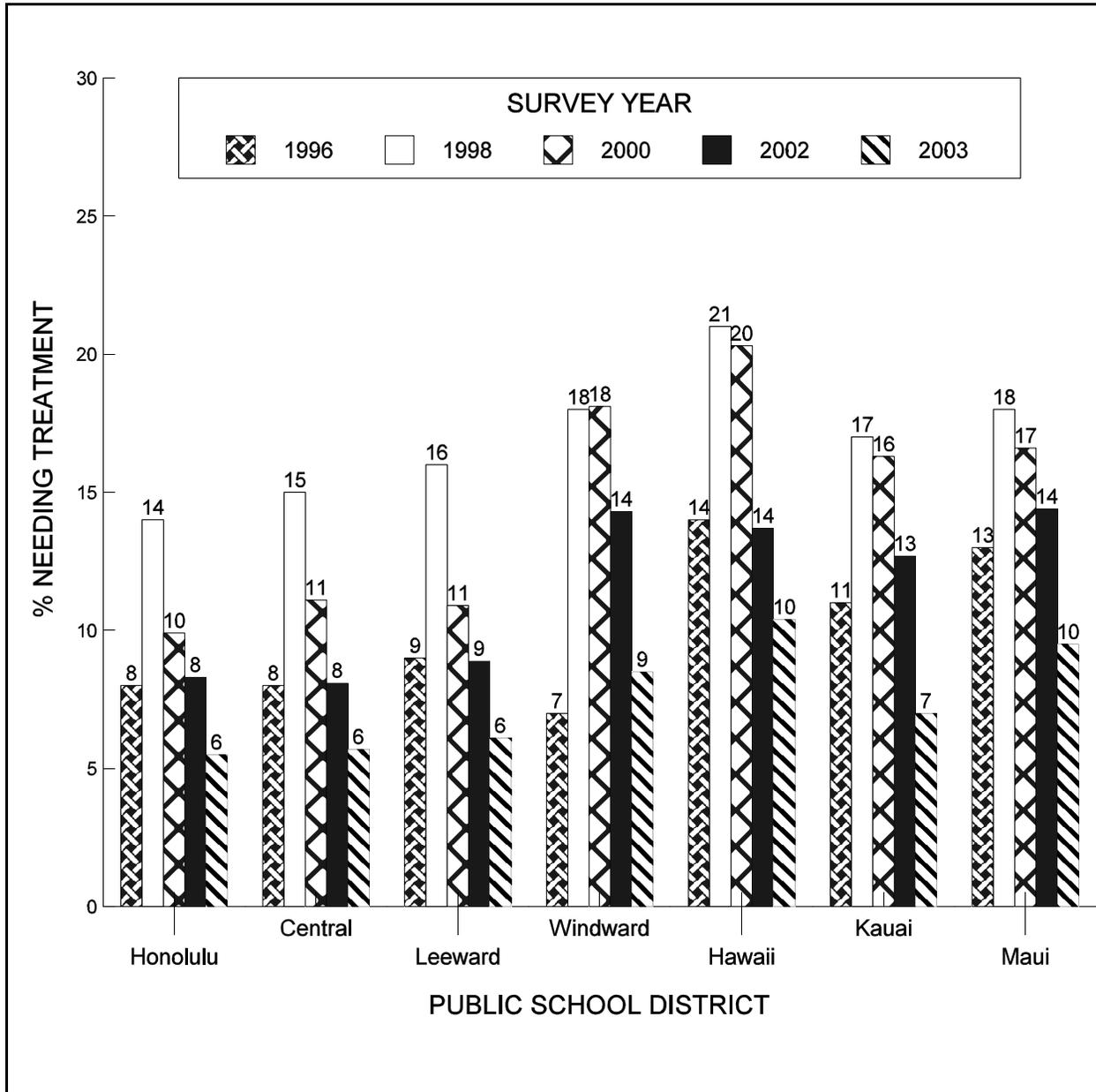
(Entries are percentages %)



NOTES: *Total Treatment Needs* includes all students classified as dependent on or abusers of alcohol, illicit drugs, or both alcohol and illicit drugs, according to the DSM-III-R criteria. *DOE County* includes public school students only.

FIGURE 41
District Trends in Total Treatment Needs:
Percentage of Public School Students in Grades 6 Through 12 Needing Treatment for
Alcohol and/or Drug Abuse Based on the DSM-III-R Criteria, by District, 1996-2003

(Entries are percentages %)



NOTES: *Total Treatment Needs* includes all students classified as dependent on or abusers of alcohol, illicit drugs, or both alcohol and illicit drugs, according to the DSM-III-R criteria.

- Total treatment needs in **Central District** decreased by 2 percentage points from 2002 (8%) to 2003 (6%), bringing treatment need estimates below 1996 levels (see Figure 41). Table 30 on the next page shows that total treatment need estimates in Central District have been consistently declining over the years in all grades. In 2003, Central District had one of the largest decreases among seniors in total treatment needs (21% in 2002, to 14% in 2003).
- Total treatment needs in **Leeward District** decreased by 3 percentage points from 2002 (9%) to 2003 (6%), bringing treatment need estimates below 1996 levels, and as low as those noted in Honolulu and Central Districts (see Figure 41). Table 30 shows that total treatment need estimates in Leeward District remained stable in grades 6 and 8 from 2000 to 2002, but dropped in both grades in 2003. Grades 10 and 12 have experienced substantial and consistent decreases in treatment needs over the years.
- In 1998 and 2000, total treatment needs in **Windward District** were among the highest of all districts. Treatment need estimates in Windward District decreased by 4 percentage points from 2000 (18%) to 2002 (14%), and by another 5 percentage points in 2003 (9%). Windward District treatment needs remain higher than other districts on Oahu, but are currently lower than Hawaii and Maui Districts. Table 30 shows that total treatment need estimates in Windward District declined from 2000 to 2002 and again in 2003 for grades 8, 10, and 12. The decline in total treatment needs in Windward District is more a function of decreases in drug treatment needs than alcohol treatment needs (see Table 31). For instance, in grade 10, any alcohol treatment needs dropped 4 percentage points in 2003 (16% to 12%), whereas any drug treatment needs dropped by 11 percentage points in 2003 (18% to 7%).
- Over the years, total treatment needs in **Hawaii District** have consistently been among the highest in the state for all grade levels. In 2003, Hawaii District had treatment needs that were equivalent to Maui District, but higher than all other districts (see Figure 41). Hawaii District treatment need estimates in 2003 (10%) are lower than 1996 (14%). Decreases in total treatment needs occurred at all grade levels in Hawaii District in 2002 and 2003 (see Table 30). In the 12th grade, decreases from 2002 to 2003 are largely a function of drug treatment needs (20% to 16%), as opposed to alcohol treatment needs (22% to 21%); in all other grades, decreases were similar between drug and alcohol treatment needs.
- Although total treatment needs are down substantially in **Kauai District** (see Figure 41), decreases are primarily the result of a huge decrease in grade 10 (22% in 2002, down to 6% in 2003); treatment needs at other grade levels changed very little in Kauai District (see Table 30).
- Total treatment needs in **Maui District** decreased by 4 percentage points from 2002 (14%) to 2003 (10%) (see Figure 41). Table 30 shows that total treatment need estimates in 2003 are down from 2002 estimates at all grade levels.

TABLE 30A
Trends in Total Treatment Needs (Abuse or Dependency) by Subgroups for
SIXTH GRADERS, 1996-2003

(Entries are percentages %)

Sixth Graders	Total Treatment Needs ^a					
	1996	1998	2000	2002	2003	'02-'03 change
Statewide:	2.6	2.7	1.5	1.0	0.5	-0.5
Sex:						
Male	3.5	3.0	1.6	1.2	0.4	-0.8
Female	1.8	2.4	1.3	0.9	0.5	-0.4
District:						
Honolulu	1.2	2.0	0.8	0.6	0.2	-0.4
Central	2.5	2.8	0.9	0.6	0.3	-0.3
Leeward	2.9	2.3	1.2	1.3	0.8	-0.5
Windward	2.2	2.4	0.9	0.9	0.8	-0.1
Hawaii	4.5	4.4	3.6	1.2	0.7	-0.5
Kauai	2.0	3.4	2.3	1.1	0.7	-0.4
Maui	4.6	3.1	2.4	1.8	1.4	-0.4
School Type:						
Public School	2.7	2.8	1.5	1.0	0.6	-0.4
Private School	1.3	1.8	0.7	1.2	0.1	-1.1
Ethnicity: ^b						
Chinese	0.3	0.9	0.4	0.3	0.0	-0.3
Filipino	2.8	2.5	1.3	1.1	0.4	-0.7
Japanese	0.9	0.5	0.4	0.4	0.2	-0.2
Hawaiian	4.1	3.4	2.2	1.7	1.3	-0.4
White	1.6	3.2	1.4	0.8	0.3	-0.5

NOTE: See Appendix B for *Approximate Weighted N Sizes* in 2003.

^a Total treatment needs include (1) students who abuse or are dependent on alcohol only, (2) students who abuse or are dependent on drugs only, and (3) students who abuse or are dependent on both alcohol and drugs. *Any Alcohol Treatment Needs* cannot be added to *Any Drug Treatment Needs* from Table 31a to get *Total Treatment Needs* represented in the current table.

^b Only ethnic groups that were included in all five survey years are included in the table.

TABLE 30B
Trends in Total Treatment Needs (Abuse or Dependency) by Subgroups for
EIGHTH GRADERS, 1996-2003

(Entries are percentages %)

Eighth Graders	Total Treatment Needs ^a					
	1996	1998	2000	2002	2003	'02-'03 change
Statewide:	8.9	10.4	7.6	5.8	3.1	-2.7
Sex:						
Male	9.1	9.8	6.7	4.7	2.2	-2.5
Female	8.8	10.8	8.2	6.7	3.9	-2.8
District:						
Honolulu	8.0	7.5	6.1	4.6	2.5	-2.1
Central	8.1	7.5	6.8	4.5	3.0	-1.5
Leeward	7.6	12.3	7.2	7.4	3.5	-3.9
Windward	8.2	10.9	8.8	5.5	3.6	-1.9
Hawaii	10.5	14.8	12.9	6.8	3.6	-3.2
Kauai	11.1	11.3	8.1	6.0	6.3	+0.3
Maui	11.1	15.4	8.6	8.1	4.8	-3.3
School Type:						
Public School	9.1	11.1	8.1	6.0	3.6	-2.4
Private School	8.2	8.0	4.7	4.7	1.6	-3.1
Ethnicity: ^b						
Chinese	3.7	2.6	0.8	0.3	0.0	-0.3
Filipino	9.1	9.1	5.8	4.8	2.5	-2.3
Japanese	3.7	5.3	2.4	2.2	1.1	-1.1
Hawaiian	12.7	17.0	14.4	10.3	6.0	-4.3
White	5.7	10.4	8.0	6.1	2.6	-3.5

NOTE: See Appendix B for *Approximate Weighted N Sizes* in 2003.

^a Total treatment needs include (1) students who abuse or are dependent on alcohol only, (2) students who abuse or are dependent on drugs only, and (3) students who abuse or are dependent on both alcohol and drugs. *Any Alcohol Treatment Needs* cannot be added to *Any Drug Treatment Needs* from Table 31b to get *Total Treatment Needs* represented in the current table.

^b Only ethnic groups that were included in all five survey years are included in the table.

TABLE 30C
Trends in Total Treatment Needs (Abuse or Dependency) by Subgroups for
TENTH GRADERS, 1996-2003

(Entries are percentages %)

Tenth Graders	Total Treatment Needs ^a					
	1996	1998	2000	2002	2003	'02-'03 change
Statewide:	13.3	21.8	18.4	16.0	10.5	-5.5
Sex:						
Male	13.4	21.1	17.3	13.7	7.8	-5.9
Female	13.3	22.2	19.0	18.0	12.3	-5.7
District:						
Honolulu	10.6	22.5	13.1	13.5	9.3	-4.2
Central	10.8	21.0	15.2	10.3	9.1	-1.2
Leeward	9.9	24.1	19.0	13.7	10.1	-3.6
Windward	11.0	25.0	32.1	25.9	12.7	-13.2
Hawaii	18.5	28.3	25.0	19.7	13.0	-6.7
Kauai	17.7	25.3	18.3	22.2	5.6	-16.6
Maui	16.0	24.7	22.6	23.4	16.3	-7.1
School Type:						
Public School	13.7	23.9	19.2	17.3	10.9	-6.4
Private School	12.2	16.5	15.9	12.6	8.8	-3.8
Ethnicity: ^b						
Chinese	6.7	9.5	4.6	4.9	2.6	-2.3
Filipino	12.2	20.4	12.4	12.7	9.4	-3.3
Japanese	8.2	14.6	11.4	10.0	7.4	-2.6
Hawaiian	15.3	29.8	26.4	22.0	14.3	-7.7
White	13.8	28.0	23.9	26.3	12.8	-13.5

NOTE: See Appendix B for *Approximate Weighted N Sizes* in 2003.

^a Total treatment needs include (1) students who abuse or are dependent on alcohol only, (2) students who abuse or are dependent on drugs only, and (3) students who abuse or are dependent on both alcohol and drugs. *Any Alcohol Treatment Needs* cannot be added to *Any Drug Treatment Needs* from Table 31c to get *Total Treatment Needs* represented in the current table.

^b Only ethnic groups that were included in all five survey years are included in the table.

TABLE 30D
Trends in Total Treatment Needs (Abuse or Dependency) by Subgroups for
TWELFTH GRADERS, 1996-2003

(Entries are percentages %)

Twelfth Graders	Total Treatment Needs ^a					
	1996	1998	2000	2002	2003	'02-'03 change
Statewide:	14.7	28.5	27.0	21.2	16.3	-4.9
Sex:						
Male	16.4	31.0	29.0	22.1	15.4	-6.7
Female	13.0	26.2	25.5	20.3	16.8	-3.5
District:						
Honolulu	12.2	26.1	21.5	15.1	12.5	-2.6
Central	16.1	30.3	24.8	20.6	14.1	-6.5
Leeward	7.5	27.1	18.3	15.8	12.6	-3.2
Windward	9.1	36.1	31.9	27.6	16.7	-10.9
Hawaii	23.5	36.5	41.7	28.4	24.1	-4.3
Kauai	11.6	27.0	42.4	22.8	21.9	-0.9
Maui	21.5	28.6	34.9	25.2	20.4	-4.8
School Type:						
Public School	15.8	29.6	28.7	21.0	16.7	-4.3
Private School	12.6	26.5	21.7	21.7	14.8	-6.9
Ethnicity:^b						
Chinese	8.2	16.5	8.1	8.6	4.4	-4.2
Filipino	10.1	24.0	20.9	15.7	10.6	-5.1
Japanese	10.7	22.3	15.9	16.6	11.3	-5.3
Hawaiian	18.0	34.1	37.3	26.4	19.9	-6.5
White	20.1	36.7	39.3	32.0	22.0	-10.0

NOTE: See Appendix B for *Approximate Weighted N Sizes* in 2003.

^a Total treatment needs include (1) students who abuse or are dependent on alcohol only, (2) students who abuse or are dependent on drugs only, and (3) students who abuse or are dependent on both alcohol and drugs. *Any Alcohol Treatment Needs* cannot be added to *Any Drug Treatment Needs* from Table 31d to get *Total Treatment Needs* represented in the current table.

^b Only ethnic groups that were included in all five survey years are included in the table.

TABLE 31A
Trends in Alcohol versus Drug Treatment Needs (Abuse or Dependency) by Subgroups for
SIXTH GRADERS, 1996-2003

(Entries are percentages %)

Sixth Graders	Any Alcohol Treatment Needs ^a						Any Drug Treatment Needs ^a					
	1996	1998	2000	2002	2003	'02-'03 change	1996	1998	2000	2002	2003	'02-'03 change
Statewide:	1.9	2.0	1.1	0.6	0.3	-0.3	1.5	1.6	0.6	0.6	0.4	-0.2
Sex:												
Male	2.6	2.2	1.1	0.5	0.3	-0.2	2.4	1.8	0.9	0.7	0.3	-0.4
Female	1.4	1.9	1.1	0.7	0.3	-0.4	0.9	1.5	0.5	0.4	0.4	0.0
District:												
Honolulu	1.1	1.6	0.7	0.5	0.1	-0.4	0.8	1.3	0.2	0.3	0.1	-0.2
Central	1.5	2.2	0.6	0.4	0.0	-0.4	1.4	2.0	0.5	0.1	0.3	+0.2
Leeward	2.1	1.6	0.8	1.0	0.6	-0.4	1.7	1.3	0.5	0.4	0.5	+0.1
Windward	2.2	1.6	0.7	0.3	0.5	+0.2	1.6	1.6	0.4	0.7	0.7	0.0
Hawaii	3.7	3.7	2.7	0.5	0.2	-0.3	2.2	2.5	1.6	0.8	0.6	-0.2
Kauai	1.3	2.7	1.9	0.5	0.7	+0.2	0.9	1.7	1.0	0.9	0.4	-0.5
Maui	3.6	2.0	1.7	1.0	1.1	+0.1	3.5	2.1	1.1	1.4	1.0	-0.4
School Type:												
Public School	2.0	2.1	1.1	0.6	0.4	-0.2	1.6	1.7	0.7	0.5	0.5	0.0
Private School	0.5	1.4	0.5	0.7	0.1	-0.6	0.7	0.8	0.5	0.8	0.0	-0.8
Ethnicity: ^b												
Chinese	0.3	0.3	0.3	0.3	0.0	-0.3	0.0	0.9	0.0	0.3	0.0	-0.3
Filipino	2.1	1.9	1.1	0.8	0.3	-0.5	1.6	1.6	0.5	0.6	0.2	-0.4
Japanese	0.7	0.5	0.3	0.3	0.2	-0.1	0.6	0.1	0.3	0.1	0.2	+0.1
Hawaiian	3.4	2.3	1.8	0.8	0.7	-0.1	2.6	2.1	1.0	1.1	1.1	0.0
White	0.9	2.7	0.9	0.5	0.3	-0.2	0.9	2.2	0.8	0.5	0.1	-0.4

NOTE: See Appendix B for *Approximate Weighted N Sizes* in 2003.

^a Some students who abuse alcohol also abuse drugs. Thus, *Any Alcohol Treatment Needs* cannot be added to *Any Drug Treatment Needs* to get *Total Treatment Needs*. Any alcohol treatment needs include 1) students who abuse or are dependent on alcohol only, or 2) students who abuse or are dependent on both alcohol and drugs. Similarly, any drug treatment needs include 1) students who abuse or are dependent on drugs only, or 2) students who abuse or are dependent on both alcohol and drugs.

^b Only ethnic groups that were included in all five survey years are included in the table.

TABLE 31B
Trends in Alcohol versus Drug Treatment Needs (Abuse or Dependency) by Subgroups for
EIGHTH GRADERS, 1996-2003

(Entries are percentages %)

Eighth Graders	Any Alcohol Treatment Needs ^a						Any Drug Treatment Needs ^a					
	1996	1998	2000	2002	2003	'02-'03 change	1996	1998	2000	2002	2003	'02-'03 change
Statewide:	7.1	7.0	5.2	4.0	2.3	-1.7	5.4	7.8	5.1	3.8	2.2	-1.6
Sex:												
Male	8.0	6.0	3.7	2.8	1.5	-1.3	5.6	8.4	5.5	3.5	1.9	-1.6
Female	6.6	7.7	6.4	4.9	2.9	-2.0	5.3	7.3	4.8	4.0	2.5	-1.5
District:												
Honolulu	6.0	4.8	4.3	3.5	2.1	-1.4	5.1	5.1	4.2	2.5	1.3	-1.2
Central	6.5	4.6	4.6	2.5	1.7	-0.8	5.2	6.0	4.2	2.8	2.2	-0.6
Leeward	7.0	8.7	4.6	5.6	2.6	-3.0	3.4	9.7	5.1	4.8	2.3	-2.5
Windward	6.2	7.6	6.7	3.0	2.5	-0.5	4.1	8.0	6.2	4.3	2.3	-2.0
Hawaii	8.6	10.5	9.6	4.5	3.0	-1.5	6.5	10.9	8.8	4.5	2.7	-1.8
Kauai	7.3	7.5	5.2	4.5	5.6	+1.1	8.6	8.5	5.1	4.2	4.5	+0.3
Maui	10.0	9.2	5.1	5.1	2.7	-2.4	7.1	13.0	6.5	5.9	4.2	-1.7
School Type:												
Public School	7.1	7.3	5.5	4.1	2.6	-1.5	5.7	8.4	5.5	3.9	2.5	-1.4
Private School	7.0	5.8	3.4	2.9	1.3	-1.6	3.8	5.5	2.7	3.1	1.0	-2.1
Ethnicity: ^b												
Chinese	2.8	1.3	0.4	0.3	0.0	-0.3	1.4	2.6	0.4	0.0	0.0	0.0
Filipino	7.3	6.3	3.8	3.6	2.0	-1.6	4.8	6.2	3.7	2.8	1.4	-1.4
Japanese	3.0	3.1	1.8	1.5	1.1	-0.4	2.4	3.5	1.5	1.6	0.5	-1.1
Hawaiian	10.8	10.9	9.9	6.8	4.1	-2.7	6.9	13.5	9.3	7.1	4.5	-2.6
White	3.5	6.7	6.1	3.7	2.0	-1.7	5.0	8.4	4.6	3.7	1.8	-1.9

NOTE: See Appendix B for *Approximate Weighted N Sizes* in 2003.

^a Some students who abuse alcohol also abuse drugs. Thus, *Any Alcohol Treatment Needs* cannot be added to *Any Drug Treatment Needs* to get *Total Treatment Needs*. Any alcohol treatment needs include 1) students who abuse or are dependent on alcohol only, or 2) students who abuse or are dependent on both alcohol and drugs. Similarly, any drug treatment needs include 1) students who abuse or are dependent on drugs only, or 2) students who abuse or are dependent on both alcohol and drugs.

^b Only ethnic groups that were included in all five survey years are included in the table.

TABLE 31C
Trends in Alcohol versus Drug Treatment Needs (Abuse or Dependency) by Subgroups for
TENTH GRADERS, 1996-2003

(Entries are percentages %)

Tenth Graders	Any Alcohol Treatment Needs ^a						Any Drug Treatment Needs ^a					
	1996	1998	2000	2002	2003	'02-'03 change	1996	1998	2000	2002	2003	'02-'03 change
Statewide:	10.0	14.9	12.5	10.9	7.9	-3.0	7.9	17.5	14.5	11.0	6.9	-4.1
Sex:												
Male	9.5	14.0	11.2	8.2	4.8	-3.4	8.6	17.9	13.6	10.5	6.3	-4.2
Female	10.7	15.6	13.5	13.3	9.9	-3.4	7.4	17.1	14.9	11.3	7.4	-3.9
District:												
Honolulu	8.2	14.9	9.2	9.3	5.7	-3.6	8.0	17.7	9.5	8.4	6.1	-2.3
Central	6.9	14.9	10.4	6.7	6.4	-0.3	7.8	16.5	11.7	7.7	6.0	-1.7
Leeward	7.3	16.2	11.9	8.7	6.5	-2.2	6.4	19.0	14.1	9.2	6.8	-2.4
Windward	7.6	16.6	21.3	15.8	11.7	-4.1	6.8	20.0	28.3	17.6	7.1	-10.5
Hawaii	15.1	19.6	19.3	14.1	10.7	-3.4	10.6	23.7	20.2	11.6	8.6	-3.0
Kauai	13.1	16.9	12.5	13.1	3.5	-9.6	10.6	23.7	14.3	16.1	5.4	-10.7
Maui	10.9	16.3	13.8	15.6	12.1	-3.5	7.7	19.4	19.6	17.3	9.3	-8.0
School Type:												
Public School	10.2	16.2	13.0	11.3	8.0	-3.3	8.5	19.4	15.1	11.8	7.0	-4.8
Private School	9.7	11.7	10.9	9.9	7.6	-2.3	6.2	12.9	12.3	8.5	6.1	-2.4
Ethnicity: ^b												
Chinese	5.3	6.7	2.2	3.6	1.5	-2.1	2.7	6.3	2.9	4.0	2.0	-2.0
Filipino	9.1	13.8	8.2	8.9	7.4	-1.5	6.3	16.5	8.4	7.5	4.6	-2.9
Japanese	5.4	10.7	8.6	7.2	5.3	-1.9	6.3	10.0	7.4	6.4	5.3	-1.1
Hawaiian	12.7	20.1	15.9	15.0	12.4	-2.6	8.1	24.9	21.9	15.6	10.0	-5.6
White	8.9	18.3	16.2	18.0	9.4	-8.6	9.7	23.5	19.8	19.5	8.5	-11.0

NOTE: See Appendix B for *Approximate Weighted N Sizes* in 2003.

^a Some students who abuse alcohol also abuse drugs. Thus, *Any Alcohol Treatment Needs* cannot be added to *Any Drug Treatment Needs* to get *Total Treatment Needs*. Any alcohol treatment needs include 1) students who abuse or are dependent on alcohol only, or 2) students who abuse or are dependent on both alcohol and drugs. Similarly, any drug treatment needs include 1) students who abuse or are dependent on drugs only, or 2) students who abuse or are dependent on both alcohol and drugs.

^b Only ethnic groups that were included in all five survey years are included in the table.

TABLE 31D
Trends in Alcohol versus Drug Treatment Needs (Abuse or Dependency) by Subgroups for
TWELFTH GRADERS, 1996-2003

(Entries are percentages %)

Twelfth Graders	Any Alcohol Treatment Needs ^a						Any Drug Treatment Needs ^a					
	1996	1998	2000	2002	2003	'02-'03 change	1996	1998	2000	2002	2003	'02-'03 change
Statewide:	10.2	22.1	20.0	16.3	13.1	-3.2	10.0	20.3	20.4	13.8	10.7	-3.1
Sex:												
Male	11.7	24.5	21.8	16.6	12.1	-4.5	10.9	22.5	23.2	15.2	11.3	-3.9
Female	8.8	19.9	18.6	16.0	13.8	-2.2	9.2	18.3	18.3	12.6	9.7	-2.9
District:												
Honolulu	8.4	19.8	16.5	11.1	9.1	-2.0	6.3	18.1	15.5	9.7	8.5	-1.2
Central	10.3	20.9	18.5	16.5	9.5	-7.0	10.3	24.8	19.1	13.4	8.6	-4.8
Leeward	4.7	20.6	11.8	12.2	10.8	-1.4	5.7	19.0	14.7	10.0	7.9	-2.1
Windward	4.5	23.7	23.2	19.3	13.4	-5.9	6.8	28.1	24.2	20.1	12.2	-7.9
Hawaii	15.0	29.3	30.9	21.5	20.9	-0.6	18.2	24.8	33.6	19.6	15.6	-4.0
Kauai	9.2	21.1	31.6	15.6	16.5	+0.9	8.7	21.0	34.4	15.4	17.6	+2.2
Maui	13.9	22.2	23.3	19.6	16.3	-3.3	16.9	23.2	27.8	17.0	13.3	-3.7
School Type:												
Public School	10.4	22.2	20.6	15.7	13.3	-2.4	11.3	22.1	22.5	14.0	11.1	-2.9
Private School	9.7	21.9	18.2	17.8	12.3	-5.5	7.6	17.2	14.3	13.3	9.2	-4.1
Ethnicity: ^b												
Chinese	5.2	12.6	6.0	7.6	4.1	-3.5	4.1	9.2	6.3	3.4	1.7	-1.7
Filipino	7.1	19.6	15.4	12.6	8.5	-4.1	7.1	17.6	15.2	9.4	5.1	-4.3
Japanese	8.3	17.7	13.0	12.9	9.7	-3.2	7.2	14.4	9.8	10.9	7.6	-3.3
Hawaiian	12.7	26.5	27.5	20.6	16.8	-3.8	12.7	25.0	31.2	17.3	14.5	-2.8
White	10.6	27.9	30.4	24.2	17.8	-6.4	14.8	27.2	30.8	22.6	14.2	-8.4

NOTE: See Appendix B for *Approximate Weighted N Sizes* in 2003.

^a Some students who abuse alcohol also abuse drugs. Thus, *Any Alcohol Treatment Needs* cannot be added to *Any Drug Treatment Needs* to get *Total Treatment Needs*. Any alcohol treatment needs include 1) students who abuse or are dependent on alcohol only, or 2) students who abuse or are dependent on both alcohol and drugs. Similarly, any drug treatment needs include 1) students who abuse or are dependent on drugs only, or 2) students who abuse or are dependent on both alcohol and drugs.

^b Only ethnic groups that were included in all five survey years are included in the table.

Treatment Need Comparisons for Sex and Ethnicity, 2003

In Chapter 4, prevalence comparisons for important subgroups were made to assist planners in developing prevention strategies that are able to target audience members in greatest need. In this section, treatment need comparisons are made for subgroups based on sex and ethnic backgrounds to help allocate funding to groups with the greatest needs. In regards to ethnic differences, students were asked to mark the ethnic/racial groups that describe them best, trying to select as few groups as possible. Similar to previous survey results, the majority of the students surveyed in 2003 classified themselves solely as either Chinese, Filipino, Japanese, Native Hawaiian, or White, and the discussion related to ethnic differences focuses on these groups. Results for students who classified themselves as belonging solely to other ethnic or racial groups are provided in Table 15 but are not discussed in text because the small *n*-sizes for these groups cause unstable results. Results for the students whose answers reflected more than one racial group are listed under the multi-racial grouping, which does not overlap with any other groups in the table.

Table 32 and Figure 42 show treatment needs for males and females; Tables 33a through 33d show treatment needs by race and ethnicity. Figure 43 shows treatment needs for the most prevalent ethnic groups in Hawaii (Chinese, Filipino, Japanese, Native Hawaiian, and White). Trend data related to sex and ethnicity are reported in Tables 30 and 31 (see pages 288-295).

Sex Differences in Treatment Needs. Sex differences in treatment needs are consistent with sex differences reported in Chapter 4 for substance use prevalence. Treatment needs for any substance abuse are higher among females than males in grades 8, 10, and 12. Sex differences in total treatment needs are primarily a function of alcohol treatment needs, as opposed to drug treatment needs. A greater proportion of females than males need treatment for alcohol abuse in grades 8, 10, and 12. Although treatment needs for drug abuse are slightly higher for females than males in grades 8 and 10, a larger proportion of 12th-grade males than 12th-grade females need treatment for drug abuse.

- Figure 42a shows that *alcohol treatment needs* are greater for females than males in grades 8, 10, and 12. In grades 8 and 10, nearly twice as many females (3% and 10%, respectively) as males (2% and 5%, respectively) need treatment for alcohol abuse; in grade 12, the differences are less pronounced with 12% of males needing treatment for alcohol abuse, compared to 14% of females.
- In regards to *illicit drug treatment needs*, slightly more females than males need treatment in grades 8 (3% versus 2%) and 10 (7% versus 6%); in grade 12, more males (11%) than females (10%) need treatment for drug abuse (see Figure 42b).
- Since 1998, *total treatment needs* have been higher among females than males in grades 8 and 10, and this trend continued in 2003 (see Table 30b-30c). On the other hand, until 2003, total treatment needs have been higher among males than females in grade 12. In 2003, females surpassed males in regards to total treatment needs with 17% of the 12th-grade females needing treatment, compared to 15% of the 12th-grade males (see Table 30b-30c). Drug treatment needs have remained higher over the years among 12th-grade males (11%), compared to 12th-grade females (10%). In 2003, 12th-grade females had higher alcohol treatment needs (14%) than 12th-grade males (12%).

FIGURE 42
Sex Differences in Treatment Needs for Alcohol and Drug Abuse: Percentage of
Students Needing Treatment Based on the DSM-III-R Criteria, by Grade, 2003

(Entries are percentages %)

Figure 42a: Total Alcohol Treatment Needs

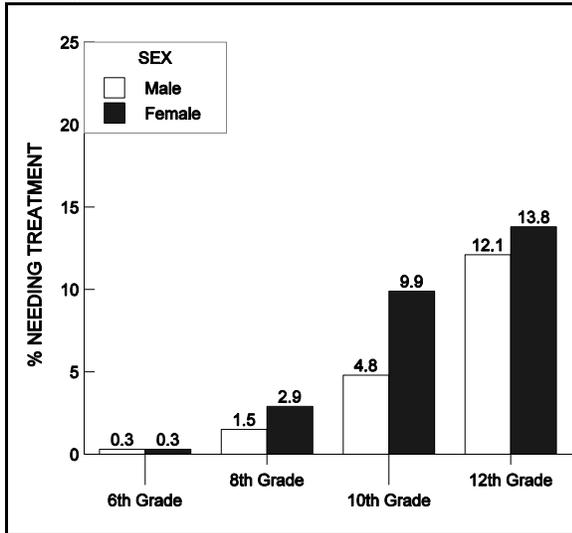


Figure 42b: Total Illicit Drug Treatment Needs

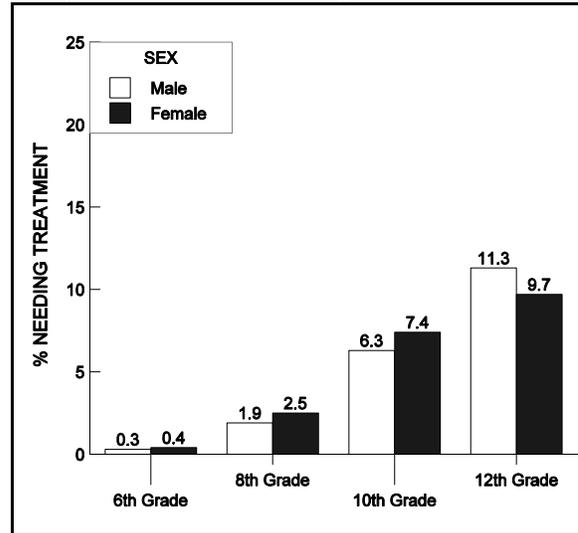
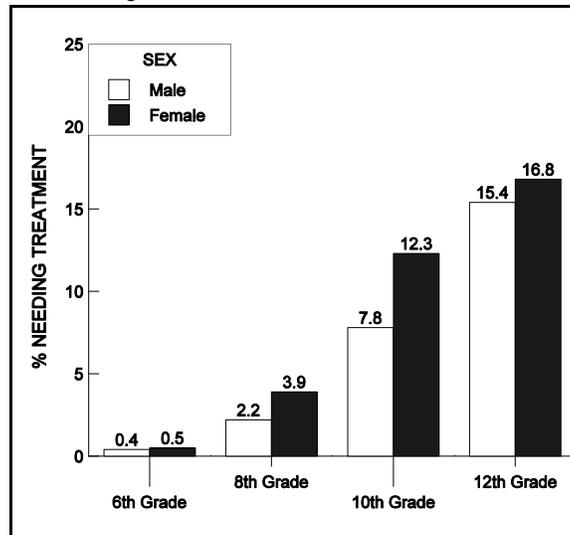


Figure 42c: Total Treatment Needs



NOTES: *Total Alcohol Treatment Needs* includes all students classified as dependent on or abusers of alcohol according to the DSM-III-R criteria. *Total Illicit Drug Treatment Needs* includes all students classified as dependent on or abusers of illicit drugs according to the DSM-III-R criteria. *Total Treatment Needs* (i.e., total treatment needs for any substance abuse) includes students who are classified as dependent on or abusers of alcohol, illicit drugs, or both alcohol and illicit drugs, according to the DSM-III-R criteria. Some students who abuse alcohol also abuse illicit drugs. Thus, the percentages for any alcohol abuse and any drug abuse will not add up to the percentages for total treatment needs.

TABLE 32
Treatment Needs by Sex for Sixth, Eighth, Tenth, and Twelfth Graders, 2003

	6th Grade		8th Grade		10th Grade		12th Grade	
SEX:	Male	Female	Male	Female	Male	Female	Male	Female
ALCOHOL TREATMENT NEEDS (abuse or dependency)	0.3%	0.3%	1.5%	2.9%	4.8%	9.9%	12.1%	13.8%
<i>Alcohol Abuse</i>	0.2%	0.2%	0.6%	0.4%	1.0%	1.6%	3.2%	3.2%
<i>Alcohol Dependency</i>	0.2%	0.2%	0.9%	2.5%	3.8%	8.3%	8.8%	10.6%
DRUG TREATMENT NEEDS (abuse or dependency of any illicit drug)	0.3%	0.4%	1.9%	2.5%	6.3%	7.4%	11.3%	9.7%
1. Marijuana Treatment Needs (abuse or dependency)	0.2%	0.3%	1.6%	2.2%	5.5%	7.0%	10.7%	9.0%
<i>Marijuana Abuse</i>	0.1%	0.2%	0.5%	0.5%	1.1%	1.4%	3.2%	2.3%
<i>Marijuana Dependency</i>	0.1%	0.1%	1.1%	1.7%	4.5%	5.6%	7.6%	6.7%
2. Stimulant Treatment Needs (abuse or dependency)	0.1%	0.1%	0.6%	0.1%	0.8%	0.7%	1.3%	1.0%
<i>Stimulant Abuse</i>	0.1%	0.1%	0.2%	0.0%	0.3%	0.0%	0.3%	0.1%
<i>Stimulant Dependency</i>	0.0%	0.0%	0.5%	0.1%	0.5%	0.7%	1.0%	0.9%
3. Depressant Treatment Needs (abuse or dependency)	0.2%	0.2%	0.5%	0.3%	0.6%	0.6%	0.8%	0.9%
<i>Depressant Abuse</i>	0.1%	0.1%	0.2%	0.1%	0.3%	0.0%	0.3%	0.2%
<i>Depressant Dependency</i>	0.1%	0.1%	0.4%	0.2%	0.3%	0.6%	0.5%	0.7%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.1%	0.1%	0.4%	0.1%	0.5%	0.3%	1.2%	0.6%
<i>Hallucinogen Abuse</i>	0.1%	0.1%	0.2%	0.0%	0.5%	0.0%	0.4%	0.1%
<i>Hallucinogen Dependency</i>	0.0%	0.0%	0.2%	0.1%	0.1%	0.2%	0.8%	0.5%
5. Club Drugs Treatment Needs (abuse or dependency)	0.1%	0.2%	0.7%	0.3%	0.6%	0.9%	0.9%	1.3%
<i>Club Drugs Abuse</i>	0.0%	0.1%	0.3%	0.1%	0.3%	0.2%	0.4%	0.6%
<i>Club Drugs Dependency</i>	0.1%	0.1%	0.4%	0.2%	0.3%	0.6%	0.5%	0.7%
SUMMARY OF TREATMENT NEEDS								
Alcohol Treatment Needs <i>Only</i>	0.2%	0.1%	0.3%	1.3%	1.4%	4.6%	3.8%	6.9%
Drug Treatment Needs <i>Only</i>	0.1%	0.2%	0.7%	1.0%	2.9%	2.4%	3.3%	2.9%
Both Alcohol and Drug Treatment Needs	0.2%	0.2%	1.2%	1.6%	3.5%	5.3%	8.4%	7.1%
Total Treatment Needs (Alcohol and/or Drug)	0.4%	0.5%	2.2%	3.9%	7.8%	12.3%	15.4%	16.8%

NOTES: See notes related to treatment needs on page 273.

Ethnic Differences in Treatment Needs. Consistent with previous years, treatment needs are higher among Native Hawaiian and White students in the upper grades than among Chinese, Filipino, and Japanese students. In grade 8, Native Hawaiian students have higher treatment needs than all other prevalent ethnic groups in Hawaii. Ethnic differences at grade 6 are minimal. Some of the largest percentage-point decreases in treatment needs in 2003 were for Native Hawaiian and White students. Treatment needs for each racial and ethnic group are found in Tables 33a through 33d on pages 301-304. However, estimates for racial and ethnic groups other than Chinese, Filipinos, Japanese, Native Hawaiians, and Whites are likely unstable because they are based on very small sample sizes. Additionally, discussion of treatment needs for Asians should be avoided because there are vast ethnic differences within this racial group.

- Ethnic differences in treatment needs are virtually nonexistent in grade 6. By grade 8, however, at least twice as many Native Hawaiian students need treatment for alcohol or drug abuse compared to Chinese, Filipino, Japanese, and White students in the same grade. In grade 10, Native Hawaiian students also represent the ethnic group with the largest proportion of students needing treatment, with White students only a percentage point behind. In grade 12, the proportion of White students needing treatment surpasses those of Native Hawaiian students, with both ethnic groups' treatment needs substantially higher than Chinese, Japanese, and Filipino students' treatment needs (see Figure 43).
- **Total treatment needs** in grades 6, 8, 10, and 12 for each of the ethnic groups are as follows: Chinese, 0%, 0%, 3%, and 4%; Filipinos, 0%, 3%, 9%, and 11%; Japanese, 0%, 1%, 7%, and 11%; Native Hawaiians, 1%, 6%, 14%, and 20%; and Whites, 0%, 3%, 13%, and 22%.
- Marijuana treatment needs are higher among Native Hawaiian and White students than Chinese, Japanese, and Filipino students (see Tables 33a through 33d). In grade 8, **marijuana abuse** is higher among Native Hawaiian students (4%), followed by White (2%), Filipino (1%), and Japanese and Chinese students (0% each). In grade 10, marijuana abuse is higher among Native Hawaiian students (9%), followed by White (8%), Japanese (5%), Filipino (4%), and Chinese students (2%). In grade 12, marijuana abuse is higher among Native Hawaiian students (14%), followed by White (13%), Japanese (7%), Filipino (5%), and Chinese students (1%). Thus, marijuana abuse is highest among Native Hawaiian students in all grades, with White students close behind in the upper grades.
- Illicit drugs other than marijuana are generally not abused in the lower grades by students from any ethnic group and abuse in the upper grades is 2% or less. In grade 12, abuse of **depressants**, **hallucinogens**, and **club drugs** are slightly higher among White students than Chinese, Filipino, Japanese, and Native Hawaiian students.

FIGURE 43
Ethnic Differences in Treatment Needs for Alcohol and Drug Abuse: Percentage of Students Needing Treatment Based on the DSM-III-R Criteria, by Grade, 2003

(Entries are percentages %)

Figure 43a: Total Alcohol Treatment Needs

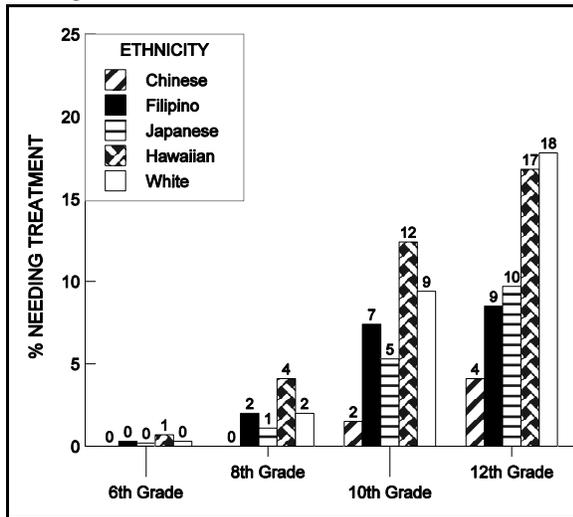


Figure 43b: Total Illicit Drug Treatment Needs

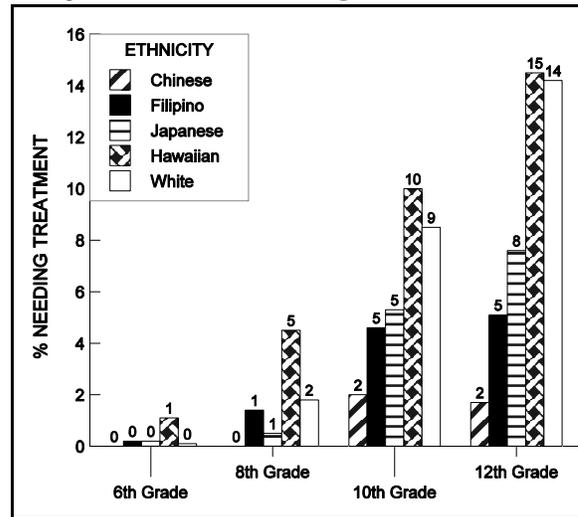
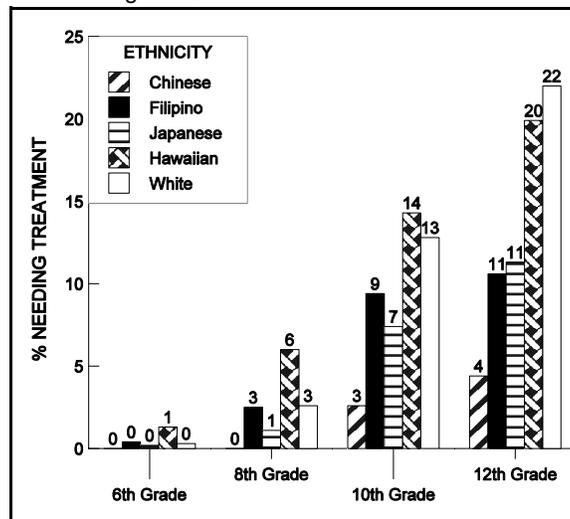


Figure 43c: Total Treatment Needs



NOTES: *Total Alcohol Treatment Needs* includes all students classified as dependent on or abusers of alcohol according to the DSM-III-R criteria. *Total Illicit Drug Treatment Needs* includes all students classified as dependent on or abusers of illicit drugs according to the DSM-III-R criteria. *Total Treatment Needs* (i.e., total treatment needs for any substance abuse) includes students who are classified as dependent on or abusers of alcohol, illicit drugs, or both alcohol and illicit drugs, according to the DSM-III-R criteria. Some students who abuse alcohol also abuse illicit drugs. Thus, the percentages for any alcohol abuse and any drug abuse will not add up to the percentages for total treatment needs. Only racial/ethnic groups comprising at least 5% of the sample are included in the charts. All other racial/ethnic estimates are unstable and can be misleading.

TABLE 33A
Treatment Needs by Race and Ethnicity for Sixth Graders, 2003

RACE/ETHNICITY:	<u>Asian</u>	Chinese	Filipino	Japanese	Korean	<u>Black</u>	<u>Hispanic</u>	<u>Pacific Islander</u>	Hawaiian	Samoan	<u>White</u>	<u>Multi-Racial</u>
ALCOHOL TREATMENT NEEDS (abuse or dependency)	0.2%	0.0%	0.3%	0.2%	0.0%	0.0%	0.0%	0.6%	0.7%	0.5%	0.3%	0.3%
<i>Alcohol Abuse</i>	0.1%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.2%	0.0%
<i>Alcohol Dependency</i>	0.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.4%	0.4%	0.5%	0.1%	0.3%
DRUG TREATMENT NEEDS (any illicit drug)	0.2%	0.0%	0.2%	0.2%	0.0%	0.0%	0.0%	0.7%	1.1%	0.0%	0.1%	1.1%
1. Marijuana Treatment Needs (abuse or dependency)	0.2%	0.0%	0.2%	0.2%	0.0%	0.0%	0.0%	0.4%	0.6%	0.0%	0.1%	1.1%
<i>Marijuana Abuse</i>	0.1%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.4%	0.5%	0.0%	0.1%	0.0%
<i>Marijuana Dependency</i>	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	1.1%
2. Stimulant Treatment Needs (abuse or dependency)	0.1%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.1%	0.2%
<i>Stimulant Abuse</i>	0.1%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.1%	0.0%
<i>Stimulant Dependency</i>	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
3. Depressant Treatment Needs (abuse or dependency)	0.1%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.5%	0.7%	0.0%	0.0%	0.0%
<i>Depressant Abuse</i>	0.1%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.3%	0.4%	0.0%	0.0%	0.0%
<i>Depressant Dependency</i>	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.0%	0.0%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.1%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.0%	0.0%
<i>Hallucinogen Abuse</i>	0.1%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.0%	0.0%
<i>Hallucinogen Dependency</i>	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
5. Club Drugs Treatment Needs (abuse or dependency)	0.1%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.3%	0.5%	0.0%	0.0%	0.0%
<i>Club Drugs Abuse</i>	0.1%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%
<i>Club Drugs Dependency</i>	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.0%	0.0%
SUMMARY OF TREATMENT NEEDS												
Alcohol Treatment Needs <i>Only</i>	0.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.5%	0.2%	0.0%
Drug Treatment Needs <i>Only</i>	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.4%	0.6%	0.0%	0.0%	0.9%
Both Alcohol and Drug Treatment Needs	0.1%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.4%	0.5%	0.0%	0.1%	0.3%
Total Treatment Needs (Alcohol and/or Drug)	0.3%	0.0%	0.4%	0.2%	0.0%	0.0%	0.0%	1.0%	1.3%	0.5%	0.3%	1.2%
Number of Students Completing Survey	2,640	252	1,274	854	122	120	158	1,313	945	205	831	260

NOTES: See notes related to treatment needs on page 273. Only racial and ethnic groups that represented at least 2% of the study sample are reported. Racial categories are underlined in the chart. Asians include subjects who identified themselves as Chinese, Indo-Chinese, Japanese, Korean, Vietnamese, Other Asian, or a mixture of these ethnic groups. Pacific Islanders include subjects who identified themselves as Native Hawaiian, Samoan, Other Pacific Islander, or a mixture of these ethnic groups. Blacks include subjects who identified themselves as Black or African American. Hispanics include subjects who identified themselves as Hispanic, Latino, or Spanish. Whites include subjects who identified themselves as White, Portuguese, or a mixture of White and Portuguese. Multi-Racial includes subjects choosing more than one racial group. Results for Koreans, Blacks, Hispanics, and Samoans are based on small *n*-sizes and, thus, are unstable estimates that could be influenced by one or more outliers.

TABLE 33B
Treatment Needs by Race and Ethnicity for Eighth Graders, 2003

RACE/ETHNICITY:	<u>Asian</u>	Chinese	Filipino	Japanese	Korean	<u>Black</u>	<u>Hispanic</u>	<u>Pacific Islander</u>	Hawaiian	Samoan	<u>White</u>	<u>Multi-Racial</u>
ALCOHOL TREATMENT NEEDS (abuse or dependency)	1.3%	0.0%	2.0%	1.1%	0.6%	3.6%	3.4%	4.3%	4.1%	5.3%	2.0%	1.8%
<i>Alcohol Abuse</i>	0.4%	0.0%	0.7%	0.4%	0.0%	0.0%	0.0%	1.1%	1.2%	1.3%	0.0%	0.0%
<i>Alcohol Dependency</i>	0.9%	0.0%	1.3%	0.7%	0.6%	3.6%	3.4%	3.2%	2.9%	4.0%	2.0%	1.8%
DRUG TREATMENT NEEDS (any illicit drug)	0.8%	0.0%	1.4%	0.5%	0.6%	4.4%	4.8%	4.4%	4.5%	3.2%	1.8%	2.7%
1. Marijuana Treatment Needs (abuse or dependency)	0.7%	0.0%	1.4%	0.1%	0.6%	1.3%	4.0%	3.9%	4.2%	3.2%	1.7%	2.7%
<i>Marijuana Abuse</i>	0.3%	0.0%	0.5%	0.0%	0.6%	0.0%	0.0%	1.2%	1.4%	0.7%	0.3%	0.0%
<i>Marijuana Dependency</i>	0.4%	0.0%	0.9%	0.1%	0.0%	1.3%	4.0%	2.7%	2.7%	2.5%	1.4%	2.7%
2. Stimulant Treatment Needs (abuse or dependency)	0.1%	0.0%	0.3%	0.0%	0.0%	2.7%	0.0%	0.6%	0.6%	0.0%	0.1%	0.7%
<i>Stimulant Abuse</i>	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	0.2%	0.3%	0.0%	0.1%	0.0%
<i>Stimulant Dependency</i>	0.1%	0.0%	0.3%	0.0%	0.0%	1.3%	0.0%	0.4%	0.3%	0.0%	0.0%	0.7%
3. Depressant Treatment Needs (abuse or dependency)	0.2%	0.0%	0.1%	0.4%	0.0%	4.4%	0.9%	0.6%	0.4%	0.0%	0.0%	0.7%
<i>Depressant Abuse</i>	0.1%	0.0%	0.0%	0.4%	0.0%	1.4%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%
<i>Depressant Dependency</i>	0.1%	0.0%	0.1%	0.0%	0.0%	2.9%	0.9%	0.4%	0.4%	0.0%	0.0%	0.7%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.1%	0.0%	0.1%	0.0%	0.0%	1.3%	0.4%	0.4%	0.4%	0.0%	0.1%	0.7%
<i>Hallucinogen Abuse</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.4%	0.0%	0.1%	0.0%
<i>Hallucinogen Dependency</i>	0.1%	0.0%	0.1%	0.0%	0.0%	1.3%	0.4%	0.1%	0.0%	0.0%	0.0%	0.7%
5. Club Drugs Treatment Needs (abuse or dependency)	0.2%	0.0%	0.4%	0.0%	0.6%	4.4%	1.2%	0.8%	0.5%	0.7%	0.1%	0.7%
<i>Club Drugs Abuse</i>	0.1%	0.0%	0.2%	0.0%	0.6%	1.4%	0.4%	0.4%	0.2%	0.7%	0.1%	0.0%
<i>Club Drugs Dependency</i>	0.1%	0.0%	0.1%	0.0%	0.0%	2.9%	0.8%	0.4%	0.4%	0.0%	0.0%	0.7%
SUMMARY OF TREATMENT NEEDS												
<i>Alcohol Treatment Needs Only</i>	0.7%	0.0%	1.0%	0.6%	0.0%	0.5%	0.0%	1.3%	1.3%	2.1%	0.8%	0.9%
<i>Drug Treatment Needs Only</i>	0.2%	0.0%	0.5%	0.0%	0.0%	1.6%	1.6%	1.5%	1.9%	0.0%	0.6%	1.9%
<i>Both Alcohol and Drug Treatment Needs</i>	0.6%	0.0%	1.0%	0.5%	0.6%	3.2%	3.4%	3.0%	2.9%	3.3%	1.3%	1.0%
<i>Total Treatment Needs (Alcohol and/or Drug)</i>	1.5%	0.0%	2.5%	1.1%	0.6%	5.2%	5.0%	5.9%	6.0%	5.4%	2.6%	3.8%
Number of Students Completing Survey	2,116	245	797	830	103	106	111	956	730	119	814	307

NOTES: See notes related to treatment needs on page 273. Only racial and ethnic groups that represented at least 2% of the study sample are reported. Racial categories are underlined in the chart. Asians include subjects who identified themselves as Chinese, Indo-Chinese, Japanese, Korean, Vietnamese, Other Asian, or a mixture of these ethnic groups. Pacific Islanders include subjects who identified themselves as Native Hawaiian, Samoan, Other Pacific Islander, or a mixture of these ethnic groups. Blacks include subjects who identified themselves as Black or African American. Hispanics include subjects who identified themselves as Hispanic, Latino, or Spanish. Whites include subjects who identified themselves as White, Portuguese, or a mixture of White and Portuguese. Multi-Racial includes subjects choosing more than one racial group. Results for Koreans, Blacks, Hispanics, and Samoans are based on small *n*-sizes and, thus, are unstable estimates that could be influenced by one or more outliers.

Table 33C
Treatment Needs by Race and Ethnicity for Tenth Graders, 2003

RACE/ETHNICITY:	<u>Asian</u>	Chinese	Filipino	Japanese	Korean	<u>Black</u>	<u>Hispanic</u>	<u>Pacific Islander</u>	Hawaiian	Samoan	<u>White</u>	<u>Multi-Racial</u>
ALCOHOL TREATMENT NEEDS (abuse or dependency)	6.1%	1.5%	7.4%	5.3%	10.1%	5.9%	6.0%	10.6%	12.4%	8.6%	9.4%	5.6%
<i>Alcohol Abuse</i>	0.9%	0.0%	1.2%	0.8%	0.9%	1.5%	0.4%	1.9%	10.3%	2.9%	1.7%	1.6%
<i>Alcohol Dependency</i>	5.1%	1.5%	6.2%	4.4%	9.2%	4.4%	5.6%	8.7%	2.1%	5.7%	7.8%	4.0%
DRUG TREATMENT NEEDS (any illicit drug)	5.1%	2.0%	4.6%	5.3%	5.7%	10.7%	9.0%	8.4%	10.0%	5.3%	8.5%	8.0%
1. Marijuana Treatment Needs (abuse or dependency)	4.5%	2.0%	4.0%	4.8%	5.7%	10.7%	7.3%	7.5%	9.4%	4.0%	8.4%	7.5%
<i>Marijuana Abuse</i>	0.7%	0.0%	0.5%	0.7%	0.9%	2.1%	1.7%	1.1%	1.4%	1.2%	2.9%	1.1%
<i>Marijuana Dependency</i>	3.9%	2.0%	3.6%	4.1%	4.8%	8.6%	5.7%	6.4%	8.0%	2.8%	5.5%	6.4%
2. Stimulant Treatment Needs (abuse or dependency)	0.7%	0.0%	0.2%	0.9%	0.9%	0.0%	1.1%	0.7%	1.0%	0.0%	1.0%	0.9%
<i>Stimulant Abuse</i>	0.1%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.4%	0.6%	0.0%	0.0%	0.3%
<i>Stimulant Dependency</i>	0.6%	0.0%	0.2%	0.9%	0.0%	0.0%	1.1%	0.4%	0.4%	0.0%	1.0%	0.6%
3. Depressant Treatment Needs (abuse or dependency)	0.4%	0.0%	0.3%	0.6%	0.0%	3.1%	0.8%	1.1%	0.9%	1.3%	0.5%	0.9%
<i>Depressant Abuse</i>	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.4%	0.5%	0.0%	0.0%	0.0%
<i>Depressant Dependency</i>	0.3%	0.0%	0.3%	0.4%	0.0%	3.1%	0.8%	0.6%	0.3%	1.3%	0.5%	0.9%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.1%	0.0%	0.0%	0.1%	0.9%	0.0%	1.1%	0.2%	0.3%	1.3%	0.7%	1.1%
<i>Hallucinogen Abuse</i>	0.1%	0.0%	0.0%	0.1%	0.9%	0.0%	0.0%	1.0%	0.3%	0.0%	0.2%	0.3%
<i>Hallucinogen Dependency</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%	0.3%	0.0%	1.3%	0.6%	0.9%
5. Club Drugs Treatment Needs (abuse or dependency)	0.5%	0.0%	0.5%	0.7%	0.0%	3.1%	1.9%	1.0%	0.7%	1.3%	0.7%	1.1%
<i>Club Drugs Abuse</i>	0.2%	0.0%	0.2%	0.2%	0.0%	0.0%	1.1%	0.3%	0.4%	0.0%	0.3%	0.3%
<i>Club Drugs Dependency</i>	0.3%	0.0%	0.3%	0.4%	0.0%	3.1%	0.8%	0.7%	0.3%	1.3%	0.5%	0.9%
SUMMARY OF TREATMENT NEEDS												
<i>Alcohol Treatment Needs Only</i>	3.2%	0.5%	4.7%	2.0%	4.1%	0.0%	3.9%	3.6%	4.1%	2.9%	4.2%	1.4%
<i>Drug Treatment Needs Only</i>	2.2%	1.1%	1.9%	2.1%	0.0%	5.1%	7.2%	1.7%	1.9%	0.0%	3.5%	4.1%
<i>Both Alcohol and Drug Treatment Needs</i>	3.0%	0.9%	2.8%	3.3%	6.1%	5.9%	2.2%	7.0%	8.3%	5.7%	5.2%	4.4%
<i>Total Treatment Needs (Alcohol and/or Drug)</i>	8.3%	2.6%	9.4%	7.4%	10.1%	11.0%	13.2%	12.3%	14.3%	8.6%	12.8%	9.8%
Number of Students Completing Survey	1,588	188	623	610	68	66	113	921	654	92	648	202

NOTES: See notes related to treatment needs on page 273. Only racial and ethnic groups that represented at least 2% of the study sample are reported. Racial categories are underlined in the chart. Asians include subjects who identified themselves as Chinese, Indo-Chinese, Japanese, Korean, Vietnamese, Other Asian, or a mixture of these ethnic groups. Pacific Islanders include subjects who identified themselves as Native Hawaiian, Samoan, Other Pacific Islander, or a mixture of these ethnic groups. Blacks include subjects who identified themselves as Black or African American. Hispanics include subjects who identified themselves as Hispanic, Latino, or Spanish. Whites include subjects who identified themselves as White, Portuguese, or a mixture of White and Portuguese. Multi-Racial includes subjects choosing more than one racial group. Results for Koreans, Blacks, Hispanics, and Samoans are based on small *n*-sizes and, thus, are unstable estimates that could be influenced by one or more outliers.

Table 33D
Treatment Needs by Race and Ethnicity for Twelfth Graders, 2003

RACE/ETHNICITY:	<u>Asian</u>	Chinese	Filipino	Japanese	Korean	<u>Black</u>	<u>Hispanic</u>	<u>Pacific Islander</u>	Hawaiian	Samoan	<u>White</u>	<u>Multi-Racial</u>
ALCOHOL TREATMENT NEEDS (abuse or dependency)	8.8%	4.1%	8.5%	9.7%	19.3%	9.2%	14.0%	14.9%	16.8%	6.6%	17.8%	25.1%
<i>Alcohol Abuse</i>	1.9%	1.0%	2.1%	1.6%	6.5%	2.6%	2.7%	3.7%	4.2%	0.0%	5.3%	4.0%
<i>Alcohol Dependency</i>	6.9%	3.2%	6.4%	8.1%	12.8%	6.6%	11.3%	11.2%	12.6%	6.6%	12.4%	21.1%
DRUG TREATMENT NEEDS (any illicit drug)	5.9%	1.7%	5.1%	7.6%	5.4%	7.6%	17.4%	12.5%	14.5%	5.6%	14.2%	27.4%
1. Marijuana Treatment Needs (abuse or dependency)	5.5%	1.4%	4.8%	6.9%	5.4%	7.7%	15.6%	11.9%	13.7%	5.0%	13.3%	26.6%
<i>Marijuana Abuse</i>	1.7%	0.3%	1.8%	1.6%	2.9%	2.7%	4.8%	2.7%	3.3%	1.7%	3.7%	8.3%
<i>Marijuana Dependency</i>	3.8%	1.2%	2.9%	5.3%	2.5%	5.0%	10.7%	9.2%	10.4%	3.3%	9.6%	18.4%
2. Stimulant Treatment Needs (abuse or dependency)	0.4%	0.0%	0.7%	0.3%	0.7%	0.0%	0.0%	1.4%	2.0%	0.0%	2.3%	3.0%
<i>Stimulant Abuse</i>	0.1%	0.0%	0.2%	0.1%	0.0%	0.0%	0.0%	0.3%	0.5%	0.0%	0.1%	1.0%
<i>Stimulant Dependency</i>	0.3%	0.0%	0.5%	0.2%	0.7%	0.0%	0.0%	1.1%	1.5%	0.0%	2.2%	2.0%
3. Depressant Treatment Needs (abuse or dependency)	0.6%	0.3%	0.7%	0.7%	0.0%	0.0%	0.0%	0.7%	1.0%	0.0%	1.6%	1.7%
<i>Depressant Abuse</i>	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.8%	0.4%
<i>Depressant Dependency</i>	0.5%	0.0%	0.7%	0.7%	0.0%	0.0%	0.0%	0.4%	0.6%	0.0%	0.9%	1.3%
4. Hallucinogen Treatment Needs (abuse or dependency)	0.5%	0.0%	0.5%	0.6%	0.0%	0.0%	0.0%	0.7%	1.0%	0.0%	1.7%	3.2%
<i>Hallucinogen Abuse</i>	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%	0.3%	0.0%	0.3%	1.9%
<i>Hallucinogen Dependency</i>	0.4%	0.0%	0.5%	0.5%	0.0%	0.0%	0.0%	0.5%	0.7%	0.0%	1.4%	1.3%
5. Club Drugs Treatment Needs (abuse or dependency)	0.8%	0.0%	0.9%	1.1%	0.0%	0.0%	2.0%	0.7%	1.0%	0.5%	1.6%	2.2%
<i>Club Drugs Abuse</i>	0.3%	0.0%	0.2%	0.5%	0.0%	0.0%	2.0%	0.3%	0.3%	0.5%	0.7%	1.0%
<i>Club Drugs Dependency</i>	0.5%	0.0%	0.7%	0.7%	0.0%	0.0%	0.0%	0.4%	0.6%	0.0%	0.9%	1.3%
SUMMARY OF TREATMENT NEEDS												
<i>Alcohol Treatment Needs Only</i>	4.5%	2.7%	5.4%	3.6%	14.2%	9.0%	3.5%	4.9%	5.1%	3.4%	7.5%	5.8%
<i>Drug Treatment Needs Only</i>	1.7%	0.3%	2.1%	1.5%	0.7%	7.7%	7.3%	2.9%	3.1%	2.3%	4.2%	7.0%
<i>Both Alcohol and Drug Treatment Needs</i>	4.3%	1.5%	3.2%	6.2%	5.0%	0.0%	10.8%	10.1%	11.8%	3.4%	10.3%	20.1%
<i>Total Treatment Needs (Alcohol and/or Drug)</i>	10.6%	4.4%	10.6%	11.3%	19.8%	16.7%	21.6%	17.9%	19.9%	9.0%	22.0%	32.9%
Number of Students Completing Survey	1,507	211	508	617	76	68	87	720	518	77	593	145

NOTES: See notes related to treatment needs on page 273. Only racial and ethnic groups that represented at least 2% of the study sample are reported. Racial categories are underlined in the chart. Asians include subjects who identified themselves as Chinese, Indo-Chinese, Japanese, Korean, Vietnamese, Other Asian, or a mixture of these ethnic groups. Pacific Islanders include subjects who identified themselves as Native Hawaiian, Samoan, Other Pacific Islander, or a mixture of these ethnic groups. Blacks include subjects who identified themselves as Black or African American. Hispanics include subjects who identified themselves as Hispanic, Latino, or Spanish. Whites include subjects who identified themselves as White, Portuguese, or a mixture of White and Portuguese. Multi-Racial includes subjects choosing more than one racial group. Results for Koreans, Blacks, Hispanics, and Samoans are based on small *n*-sizes and, thus, are unstable estimates that could be influenced by one or more outliers.

UTILIZATION OF TREATMENT FACILITIES IN 2003

Although a large percentage of students in Hawaii need treatment for alcohol and drug abuse, many in need have not received treatment. The following section addresses the degree to which treatment facilities are utilized by students with a substance abuse problem, whether adolescents get treatment from school programs or facilities other than school, and trends in treatment utilization. County and gender differences in treatment utilization are also addressed.

To determine how many students have utilized treatment facilities, students were asked if they ever received help for an alcohol or other drug use problem from a school program or some place other than school. Table 34 on pages 306 to 309 displays the percentage of students statewide and in different counties who have received help for an alcohol or drug problem from either a school program or from some place other than school. Table 34 also provides trend data from 2000 to 2003. Table 35 on pages 313 to 314 and Figure 44 display the percentage of students with treatment needs who have utilized treatment facilities. All tables provide information at the statewide levels, as well as by county, school type, and sex.

Utilization of Treatment Facilities, Regardless of Abuse Diagnosis

Overview of Key Findings. Only a small proportion of students reported that they have utilized a treatment facility in 2003. However, the proportion of students reporting that they have utilized a treatment facility has basically doubled since 2002. In previous years, reported utilization of treatment facilities was 6% or less across all counties for all grades. In 2003, reported utilization of treatment facilities is as high as 13%. Gender differences in treatment utilization are minimal, with the only notable difference occurring in the 12th grade; more 12th-grade males than 12th-grade females reported utilizing a treatment facility.

- Table 34 shows 1% of 6th graders, 4% of 8th graders, 6% of 10th graders, and 5% of 12th graders reported going to either a school program or another facility to receive help for their alcohol or drug abuse problem. Students were just as likely to have used a school program as a program some place other than school.
- In many cases, utilization of treatment facilities was highest in counties with the highest reported treatment needs. In grade 8, Kauai County had the highest percentage of students needing treatment, compared to other counties. Reports of utilizing a treatment facility were also higher among 8th graders in Kauai County (6%), than among 8th graders in all other counties (4% each). In grade 10, Maui County had the highest percentage of students needing treatment, compared to other counties. Reports of utilizing a treatment facility were also higher among 10th graders in Maui County (8%), than the City & County of Honolulu (6%), Hawaii County (4%), and Kauai County (7%). In grade 12, Hawaii County had the highest percentage of students needing treatment, compared to other counties. Reports of utilizing a treatment facility were also higher among 12th graders in Hawaii County (13%), than in the City & County of Honolulu (4%), Kauai County (6%), and Maui County (6%).

TABLE 34A
Trends in Utilization of Treatment Facilities for an Alcohol or Drug Problem by
Subgroups, as Reported by SIXTH GRADERS, 2000-2003

(Entries are percentages %)

	2000	2002	2003	'02-'03 change
Received Treatment at School or from School Program				
STATEWIDE	1.2	0.6	1.0	+0.4
COUNTY (PUBLIC SCHOOL)				
City & County of Honolulu	1.1	0.6	1.0	+0.4
Hawaii County	1.8	0.3	0.9	+0.6
Kauai County	2.4	0.0	1.6	+1.6
Maui County	0.8	0.7	1.8	+1.1
SCHOOL TYPE				
Public School	1.2	0.6	1.1	+0.5
Private School	0.7	0.5	0.3	-0.2
RESPONDENT SEX				
Male	1.3	0.7	1.4	+0.7
Female	1.1	0.5	0.4	-0.1
Received Treatment from a Facility Other Than a School Program				
STATEWIDE	0.8	0.5	0.8	+0.3
County (Public School)				
City & County of Honolulu	0.8	0.5	0.6	+0.1
Hawaii County	0.6	0.5	1.4	+0.9
Kauai County	1.7	0.0	1.9	+1.9
Maui County	0.8	0.6	2.2	+1.6
School Type				
Public School	0.8	0.5	0.9	+0.4
Private School	0.5	0.3	0.3	0.0
Respondent Sex				
Male	0.9	0.5	1.1	+0.6
Female	0.7	0.4	0.5	+0.1
Total Treatment Utilization (school program or from another facility)				
STATEWIDE	1.3	0.7	1.2	+0.5
County (Public School)				
City & County of Honolulu	1.2	0.8	1.2	+0.4
Hawaii County	2.0	0.6	1.6	+1.0
Kauai County	2.6	0.0	2.3	+2.3
Maui County	1.2	0.9	2.2	+1.3
School Type				
Public School	1.4	0.7	1.5	+0.8
Private School	0.7	0.7	0.3	-0.4
Respondent Sex				
Male	1.5	0.8	1.8	+1.0
Female	1.2	0.6	0.6	0.0

TABLE 34B
Trends in Utilization of Treatment Facilities for an Alcohol or Drug Problem by
Subgroups, as Reported by EIGHTH GRADERS, 2000-2003

(Entries are percentages %)

	2000	2002	2003	'02-'03 change
Received Treatment from School Program				
STATEWIDE	1.7	1.4	2.3	+0.9
COUNTY (PUBLIC SCHOOL)				
City & County of Honolulu	1.7	1.3	2.5	+1.2
Hawaii County	1.2	1.1	1.8	+0.7
Kauai County	2.3	2.2	4.8	+2.6
Maui County	2.3	3.3	3.2	-0.1
SCHOOL TYPE				
Public School	1.8	1.5	2.6	+1.1
Private School	1.4	0.4	1.0	+0.6
RESPONDENT SEX				
Male	2.0	1.1	2.1	+1.0
Female	1.5	1.6	2.5	+0.9
Received Treatment from a Facility Other Than a School Program				
STATEWIDE	1.5	1.3	2.7	+1.4
County (Public School)				
City & County of Honolulu	1.7	1.2	2.7	+1.5
Hawaii County	0.9	1.5	4.2	+2.7
Kauai County	2.0	1.4	4.1	+2.7
Maui County	1.7	2.9	2.9	0.0
School Type				
Public School	1.6	1.4	3.0	+1.6
Private School	0.7	0.4	1.7	+1.3
Respondent Sex				
Male	1.7	1.0	2.3	+1.3
Female	1.3	1.5	2.9	+1.4
Total Treatment Utilization (school program or from another facility)				
STATEWIDE	2.1	1.7	3.5	+1.8
County (Public School)				
City & County of Honolulu	2.1	1.6	3.6	+2.0
Hawaii County	1.6	1.8	4.2	+2.4
Kauai County	2.6	2.6	6.2	+3.6
Maui County	3.0	3.6	4.1	+0.5
School Type				
Public School	2.2	1.9	3.9	+2.0
Private School	1.5	0.6	1.9	+1.3
Respondent Sex				
Male	2.3	1.4	3.2	+1.8
Female	1.9	2.0	3.8	+1.8

TABLE 34C
Trends in Utilization of Treatment Facilities for an Alcohol or Drug Problem by
Subgroups, as Reported by TENTH GRADERS, 2000-2003

(Entries are percentages %)

	2000	2002	2003	'02-'03 change
Received Treatment from School Program				
STATEWIDE	2.1	1.8	3.7	+1.9
COUNTY (PUBLIC SCHOOL)				
City & County of Honolulu	2.7	1.5	4.6	+3.1
Hawaii County	1.1	1.9	1.6	-0.3
Kauai County	2.1	2.9	4.1	+1.2
Maui County	2.4	2.7	4.2	+1.5
SCHOOL TYPE				
Public School	2.4	1.9	4.1	+2.2
Private School	0.9	1.3	2.2	+0.9
RESPONDENT SEX				
Male	2.3	1.7	4.1	+2.4
Female	1.9	1.8	3.6	+1.8
Received Treatment from a Facility Other Than a School Program				
STATEWIDE	2.0	1.9	3.7	+1.8
COUNTY (PUBLIC SCHOOL)				
City & County of Honolulu	2.0	1.2	3.7	+2.5
Hawaii County	1.9	2.8	3.2	+0.4
Kauai County	1.2	2.9	4.7	+1.8
Maui County	3.6	2.5	3.8	+1.3
SCHOOL TYPE				
Public School	2.2	1.7	3.7	+2.0
Private School	1.4	2.3	3.7	+1.4
RESPONDENT SEX				
Male	2.4	1.7	4.0	+2.3
Female	1.7	2.0	3.7	+1.7
Total Treatment Utilization (school program or from another facility)				
STATEWIDE	2.7	2.5	5.8	+3.3
COUNTY (PUBLIC SCHOOL)				
City & County of Honolulu	3.1	1.8	6.3	+4.5
Hawaii County	2.3	3.4	3.6	+0.2
Kauai County	2.1	4.9	6.9	+2.0
Maui County	4.4	3.8	8.1	+4.3
SCHOOL TYPE				
Public School	3.0	2.6	6.2	+3.6
Private School	1.6	2.4	4.2	+1.8
RESPONDENT SEX				
Male	2.9	2.2	5.9	+3.7
Female	2.6	2.8	6.0	+3.2

TABLE 34D
Trends in Utilization of Treatment Facilities for an Alcohol or Drug Problem by
Subgroups, as Reported by TWELFTH GRADERS, 2000-2003

(Entries are percentages %)

	2000	2002	2003	'02-'03 change
Received Treatment from School Program				
STATEWIDE	1.4	1.8	3.5	+1.7
COUNTY (PUBLIC SCHOOL)				
City & County of Honolulu	1.9	1.9	2.6	+0.7
Hawaii County	2.0	3.8	9.6	+5.8
Kauai County	1.1	1.9	2.1	+0.2
Maui County	1.3	2.6	4.2	+1.6
SCHOOL TYPE				
Public School	1.7	2.2	3.9	+1.7
Private School	0.3	0.8	1.9	+1.1
RESPONDENT SEX				
Male	1.9	2.2	4.6	+2.4
Female	1.0	1.5	2.9	+1.4
Received Treatment from a Facility Other Than a School Program				
STATEWIDE	1.3	1.6	4.3	+2.7
COUNTY (PUBLIC SCHOOL)				
City & County of Honolulu	1.8	1.5	2.8	+1.3
Hawaii County	1.1	3.1	11.7	+8.6
Kauai County	1.1	2.3	3.6	+1.3
Maui County	1.6	2.6	4.7	+2.1
SCHOOL TYPE				
Public School	1.6	1.9	4.6	+2.7
Private School	0.5	0.9	3.2	+2.3
RESPONDENT SEX				
Male	1.7	1.8	5.1	+3.3
Female	1.0	1.5	3.6	+2.1
Total Treatment Utilization (school program or from another facility)				
STATEWIDE	2.0	2.6	5.4	+2.8
COUNTY (PUBLIC SCHOOL)				
City & County of Honolulu	2.7	2.7	3.7	+1.0
Hawaii County	2.0	5.9	13.2	+7.3
Kauai County	1.4	2.7	5.7	+3.0
Maui County	2.3	4.0	6.3	+2.3
SCHOOL TYPE				
Public School	2.4	3.2	5.8	+2.6
Private School	0.7	1.1	4.1	+3.0
RESPONDENT SEX				
Male	2.4	3.0	6.5	+3.5
Female	1.7	2.4	4.7	+2.3

- Although treatment needs are typically higher among females than males in grades 8 and 10, sex differences in treatment utilization were minimal. In grade 12, more males reported utilizing a treatment facility than females (7% versus 5%). Earlier it was reported that treatment needs by 12th-grade males (15%) were slightly lower than 12th-grade females (17%). From 2002 to 2003, treatment needs declined for both males and females in grade 12, but the decrease was nearly twice as much for males. Treatment needs among males may have declined because they have received the treatment they needed.

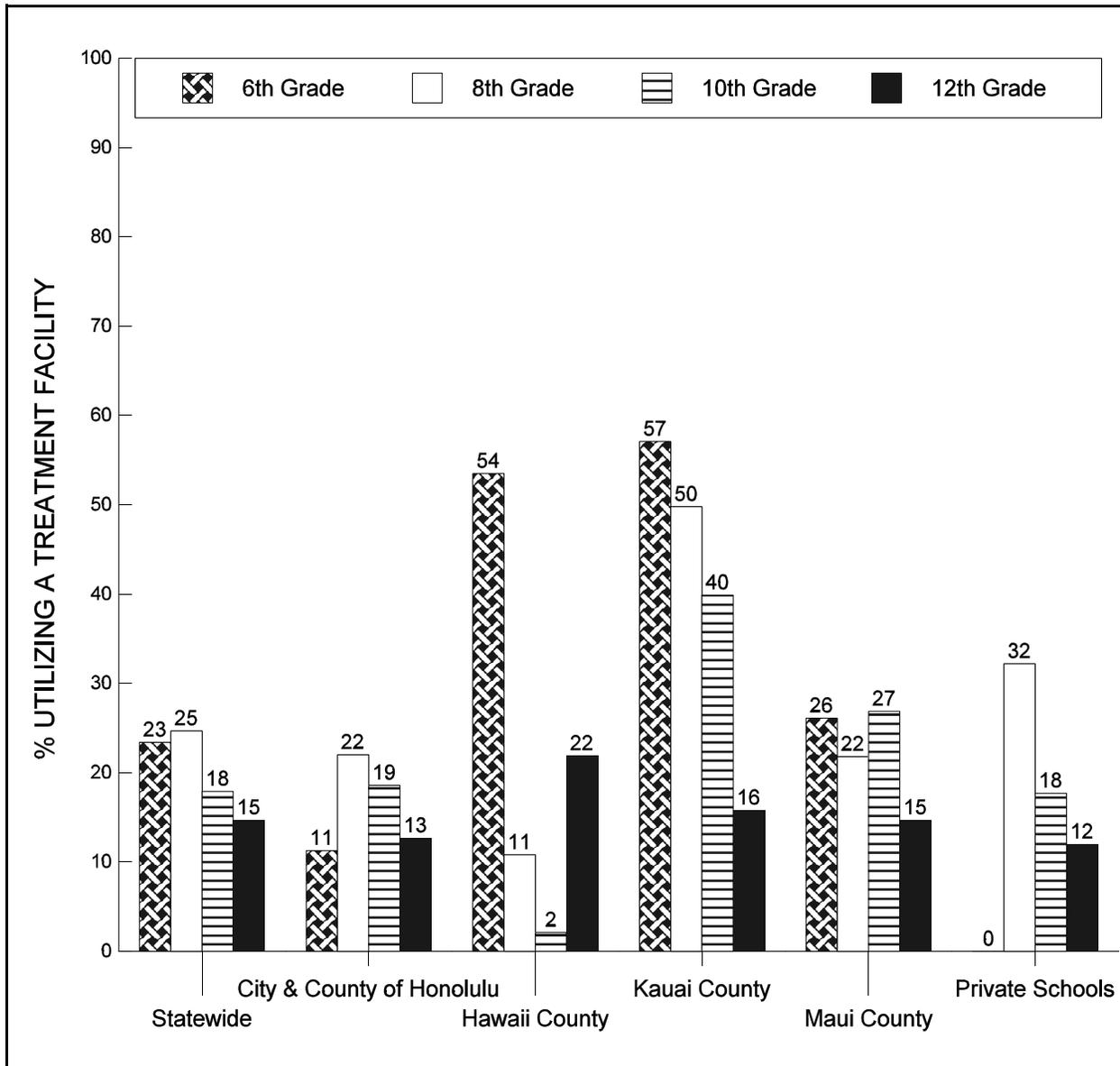
Utilization of Treatment Facilities Based on Need

Overview of Key Findings. The percentages of students utilizing a treatment facility are quite substantial when addressing only those students diagnosed as abusing alcohol or drugs according to the DSM-III-R criteria. Statewide, 23% of 6th graders, 25% of 8th graders, 18% of 10th graders, and 15% of 12th graders who met the criteria for having an alcohol or drug abuse problem reported that they utilized a treatment facility. The proportions of students with a substance abuse problem who reported utilizing a treatment facility were generally highest in Kauai County. The percentages of students in need who report utilizing a treatment facility are substantially higher in 2003 than other years.

- **Statewide Treatment Utilization Based on Need.** In this study, there was a significant positive relationship between being diagnosed with an alcohol or drug use problem, according to the DSM-III-R criteria, and utilizing a treatment facility ($r = .23$, $p < .0001$). Of the students who met the criteria for having an alcohol or drug abuse problem, 23% of 6th graders, 25% of 8th graders, 18% of 10th graders, and 15% of 12th graders reported having utilized a treatment facility. As noted in Table 35, the percentages are up by 7 to 10 percentage points from previous years. Thus, in 2003, more students in need of treatment are availing themselves of treatment options.
- **County Differences in Utilization Based on Need.** Reported utilization of treatment facilities by public school students with a substance abuse problem tended to be higher in Kauai County than in other counties (see Figure 44). The only exception was at the 12th-grade level, where Hawaii County had more than 22% of their students with a substance abuse problem reporting that they utilized a treatment facility, compared to 16% in Kauai County. Decreases in reported utilization by students with treatment needs occurred in the City & County of Honolulu in grade 6, in Hawaii County in grades 8 and 10, and in Maui County in grade 8. In all other situations, reported utilization by students with treatment needs are up substantially from 2002 reports (see Table 35).
 - In the **6th grade**, a greater proportion of students with treatment needs had utilized a treatment facility from Kauai County (57%), than the City & County of Honolulu (11%), Hawaii County (54%), or Maui County (26%). The City & County of Honolulu experienced a decrease in the proportion of students with treatment needs who reported utilizing a treatment facility, whereas all other counties experienced a substantial increase.

FIGURE 44
Utilization of Treatment Facilities by Students in Need:
Percentage of Students Who Were Diagnosed as Needing Treatment Based on the
DSM-III-R Criteria Who Reported Utilizing a Treatment Facility, by Grade, 2003

(Entries are percentages %)



NOTES: Entries in the chart reflect the percentage of students diagnosed by the DSM-III-R criteria as needing treatment for substance abuse who reported that they had received help in the past year for an alcohol or drug problem from either a school program or from some place other than school. Statewide includes public and private school students. County includes only public school students.

- In the **8th grade**, a greater proportion of students with treatment needs had utilized a treatment facility from Kauai County (50%), than the City & County of Honolulu (22%), Hawaii County (11%), or Maui County (22%). Both the City & County of Honolulu and Kauai County witnessed an increase in the percentages of 8th-grade students, in need of treatment, who utilization a treatment facility; on the other hand, utilization of treatment facilities by 8th-grade students in need decreased in Hawaii and Maui Counties.
- In the **10th grade**, a greater proportion of students with treatment needs had utilized a treatment facility from Kauai County (40%) than the City & County of Honolulu (19%), Hawaii County (2%), or Maui County (27%). All counties, except Hawaii County, experienced an increase in the percentages of 10th-grade students with treatment needs who reported utilizing a treatment facility in 2003. The percentages of those with needs who have utilized a treatment facility in Hawaii County have been below 10% over the last few years (see Table 35).
- In the **12th grade**, Hawaii County had a greater proportion of students with a substance abuse problem who had utilized a treatment facility (22%) than the City & County of Honolulu (13%), Kauai County (16%), or Maui County (15%). Utilization of treatment facilities by 12th-grade students with a substance abuse problem increased across all counties in 2003.
- **Grade Level Differences in Treatment Utilization.** Although treatment needs are higher in the upper grades than in the lower grades, utilization of treatment facilities by those in need is typically lower among 12th graders than all other grades (see Figure 44). Across all counties, less than one fourth of the seniors who were diagnosed as needing treatment based on the DSM-III-R criteria reported that they had utilized a treatment facility (see Table 35).

TABLE 35
Trends in Utilization of Treatment Facilities for Students Who Abuse or Are Dependent on Alcohol or Drugs,
as Reported by Sixth, Eighth, Tenth, and Twelfth Graders
Who Met the Criteria for Substance Abuse, by Grade, 1996-2003

(Entries are percentages %)

	6th Grade						8th Grade					
	1996	1998	2000	2002	2003	'02-'03 change	1996	1998	2000	2002	2003	'02-'03 change
Students with treatment needs who <i>have utilized</i> treatment facilities												
◆ STATEWIDE	38.6	29.5	14.1	13.2	23.4	+10.2	37.4	27.2	13.5	14.8	24.7	+9.9
◆ City & County of Honolulu	37.5	27.9	15.9	16.3	11.3	-5.0	36.6	31.4	17.3	14.8	22.0	+7.2
◆ Hawaii County	39.4	30.8	13.3	8.3	53.5	+45.2	32.2	23.3	8.3	15.9	10.8	-5.1
◆ Kauai County	44.4	30.0	16.7	0.0	57.1	+57.1	24.2	20.0	8.0	17.4	49.8	+32.4
◆ Maui County	43.5	50.0	13.3	16.7	26.1	+9.4	63.6	31.3	9.8	23.5	21.8	-1.7
◆ Private Schools in All Counties	20.0	14.3	0.0	0.0	0.0	0.0	31.2	20.2	14.7	3.0	32.2	+29.2
Students with treatment needs who <i>have not utilized</i> treatment facilities												
◆ STATEWIDE	61.4	70.5	85.9	86.8	76.6	-10.2	62.6	72.8	86.5	85.2	75.3	-9.9
◆ City & County of Honolulu	62.5	72.1	84.1	83.7	88.7	+5.0	63.4	68.6	82.7	85.2	78.1	-7.1
◆ Hawaii County	60.6	69.2	86.7	91.7	46.5	-45.2	67.8	76.7	91.7	84.1	89.2	+5.1
◆ Kauai County	55.6	70.0	83.3	100.0	43.0	-57.0	75.8	80.0	92.0	82.6	50.2	-32.4
◆ Maui County	56.5	50.0	86.7	83.3	73.9	-9.4	36.4	68.8	90.2	76.5	78.2	+1.7
◆ Private Schools in All Counties	80.0	85.7	100.0	100.0	100.0	0.0	68.8	79.8	85.3	97.0	67.8	-29.2

(Table continued on next page)

TABLE 35 (continued)
Trends in Utilization of Treatment Facilities for Students Who Abuse or Are Dependent on Alcohol or Drugs,
as Reported by Sixth, Eighth, Tenth, and Twelfth Graders
Who Met the Criteria for Substance Abuse, by Grade, 1996-2003

(Entries are percentages %)

	10th Grade						12th Grade					
	1996	1998	2000	2002	2003	'02-'03 change	1996	1998	2000	2002	2003	'02-'03 change
Students with treatment needs who <i>have utilized</i> treatment facilities												
◆ STATEWIDE	24.2	14.9	11.7	10.3	17.9	+7.6	23.1	11.2	6.3	7.6	14.7	+7.1
◆ City & County of Honolulu	29.7	17.0	14.2	7.9	18.6	+10.7	16.9	14.6	10.5	8.6	12.7	+4.1
◆ Hawaii County	23.1	11.9	6.9	8.6	2.1	-6.5	31.8	7.9	4.7	11.5	21.9	+10.4
◆ Kauai County	34.7	15.8	9.3	12.3	39.9	+27.6	20.0	13.5	2.9	7.0	15.8	+8.8
◆ Maui County	20.8	10.0	18.3	14.1	26.9	+12.8	34.1	10.5	5.0	11.0	14.7	+3.7
◆ Private Schools in All Counties	13.5	13.7	6.5	11.4	17.7	+6.3	17.4	8.3	2.2	2.8	12.0	+9.2
Students with treatment needs who <i>have not utilized</i> treatment facilities												
◆ STATEWIDE	75.8	85.1	88.3	89.7	82.1	-7.6	76.9	88.8	93.7	92.4	85.3	-7.1
◆ City & County of Honolulu	70.3	83.0	85.8	92.1	81.4	-10.7	83.1	85.4	89.5	91.4	87.3	-4.1
◆ Hawaii County	76.9	88.1	93.1	91.4	97.9	+6.5	68.2	92.1	95.3	88.5	78.1	-10.4
◆ Kauai County	65.3	84.2	90.7	87.7	60.1	-27.6	80.0	86.5	97.1	93.0	84.2	-8.8
◆ Maui County	79.2	90.0	81.7	85.9	73.1	-12.8	65.9	89.6	95.0	89.0	85.3	-3.7
◆ Private Schools in All Counties	86.5	86.3	93.5	88.6	82.3	-6.3	82.9	91.7	97.8	97.2	88.0	-9.2

NOTES: Statewide data includes public, private, and charter school students. County data include public schools only. See Appendix B for *Approximate Weighted N-Sizes* in 2003.