



National Institute on Alcohol Abuse and Alcoholism

National Institute on Alcohol Abuse and Alcoholism  
Division of Biometry and Epidemiology  
Alcohol Epidemiologic Data System

## SURVEILLANCE REPORT #51

### APPARENT PER CAPITA ALCOHOL CONSUMPTION: NATIONAL, STATE, AND REGIONAL TRENDS, 1977-97

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## HIGHLIGHTS

This surveillance report on apparent per capita alcohol consumption in the United States is the 14th in a series of consumption reports produced annually by the National Institute on Alcohol Abuse and Alcoholism (NIAAA). Findings are based on alcoholic beverage sales data, either collected directly by the Alcohol Epidemiologic Data System (AEDS) or provided by beverage industry sources. Population data provided by the U.S. Census Bureau are used to calculate per capita rates. The following are highlights from the current report which updates consumption trends through 1997:

- After a 0.9 percent increase in per capita consumption in 1996, per capita consumption of ethanol from all alcoholic beverages combined decreased by 0.5 percent in 1997 (2.18 vs 2.19 gallons ethanol). Per capita consumption in 1997 is second only to 1995 in being the lowest in 35 years. Between 1996 and 1997, per capita consumption decreased for beer (from 1.25 to 1.24 gallons ethanol), increased for wine (from 0.30 to 0.31 gallons ethanol), and decreased for spirits (from 0.64 to 0.63 gallons ethanol).
- Changes between 1996 and 1997 in overall per capita alcohol consumption among the States and the District of Columbia included increases in 15 States and the District of Columbia, decreases in 29 States, and no change in 6 States. This contrasts strongly with 1996 when per capita consumption increased in 29 States, decreased in 14 States and the District of Columbia, and did not change in 7 States.
- Regional analysis of 1997 per capita alcohol consumption indicated overall per capita decreases in the Northeast (0.5 percent) South (0.9 percent) and West (0.4 percent) census regions, but no change in the Midwest.
- Even with the 1997 decrease in overall per capita ethanol consumption, the prospect of reaching the Year 2000 national objective of reducing per capita consumption to no more than 2 gallons ethanol does not appear promising. To meet the Year 2000 objective, total per capita ethanol consumption must decrease by 8.3 percent, or an average of 2.8 percent annually through the rest of the 1990s and the Year 2000.

## INTRODUCTION

This surveillance report on per capita consumption of alcohol in the United States is the 14th in a series of reports (Williams et al. 1998, 1997, 1996, 1995, 1994, 1993, 1992, 1991a, b; Brooks et al. 1989; Steffens et al. 1988; Laforge et al. 1987; Doernberg et al. 1986) that examine alcohol consumption trends on a national, State, and regional basis. Like previous reports on per capita alcohol consumption, it is intended to provide updated alcohol information for policymakers, health care providers, researchers, and others concerned about alcohol issues. This report adds coverage for 1997 and was prepared by AEDS staff under the supervision of NIAAA's Division of Biometry and Epidemiology. Other new surveillance reports prepared by AEDS and NIAAA staff include alcohol-related fatal

crashes (Yi et al. 1999), alcohol-related hospital discharges (Whitmore et al. 1999), and liver cirrhosis mortality (Saadatmand et al. 1999).

Major findings in this report are presented in four sections. The first section presents national data on trends in beer, wine, and spirits consumption, as well as on all alcoholic beverages combined. The second section presents data on alcohol consumption trends for individual States. States also are ranked in deciles according to total ethanol consumption. The third section presents data on consumption trends for each type of beverage and all beverages combined for the Northeast, Midwest, South, and West regions defined by the U.S. Census Bureau. The fourth section presents trend data on average alcohol consumption per drinker for those States and the District of Columbia that have participated in the Behavioral Risk Factors Surveillance

System (BRFSS) coordinated by the Centers for Disease Control and Prevention (CDC). These per-drinker estimates of consumption are calculated by excluding each State's proportion of nondrinkers, or abstainers, in order to provide estimates of alcohol consumption among the drinking population of the respective States.

### Sources and Limitations of Data

To interpret the data in this report correctly, readers should keep the following points in mind:

- AEDS attempts to obtain alcoholic beverage sales data from every State and the District of Columbia because sales data more accurately reflect actual consumption of alcoholic beverages than do production and shipments data from beverage industry sources. AEDS received beverage sales and/or tax receipts reports for 1997 from 19 States (17 States for beer, 18 States for wine, and 16 States for spirits). For the remaining States and the District of Columbia, shipments data from major beverage industry sources (Beer Institute 1998 [which also includes data from the Distilled Spirits Council of the United States, Inc]; Steve Barsby & Associates, Inc. 1998) were used for the numerator to calculate per capita consumption. Although sales and tax receipt data tend to provide slightly lower per capita estimates (about .01 to .02 points per capita), the mixed use of data from sales and shipments sources appears to have little effect on overall trends in per capita alcohol consumption (Campbell et al. 1994). State population estimates for persons ages 14 and older were obtained from the Internet site of the U.S. Census Bureau and used as denominators to calculate the per capita consumption figures.
- AEDS uses a drinking population ages 14 and older to calculate per capita consumption rates. Although age 14 is below the minimum legal age for the purchase of alcoholic beverages throughout the United States, most self-report surveys indicate that many 14-year-olds drink alcoholic beverages. Data in the 1992 National Longitudinal Alcohol Epidemiologic Survey (NLAES) indicate

that 7.2 percent of current drinkers ages 18 and older started drinking before the age of 15 (AEDS 1997). Results from the *Monitoring the Future* survey in 1997 (Johnston et al. 1998) indicate that nearly half (45.5 percent) of eighth graders (13- to 14-year-olds) reported past-year use of alcohol (i.e., beyond a few sips).

- For calculating State-level estimates of per drinker ethanol consumption, AEDS uses estimates of the percentage of abstainers from the BRFSS obtained from CDC's Internet site. The BRFSS data provide estimates of drinking in the past 30 days for telephone respondents ages 18 and older. Using these estimates to calculate annual alcohol consumption per drinker ages 14 and over—corresponding to the population age group used in this report—implicitly assumes that the abstinence rate of 14- to 17-year olds is the same as that of the population ages 18 and older. It is likely that inclusion of persons ages 14 to 17 in the BRFSS would produce slightly higher estimates of the percent of abstainers. However, using BRFSS data to calculate alcohol consumption per drinker for a State and year also implicitly assumes that past-month alcohol abstinence is the same as past-year alcohol abstinence, and not all past-month abstainers are also past-year abstainers. These biases oppose, and to some extent, offset each other. Despite these drawbacks, the CDC BRFSS data are the best available source of annual State data on alcohol abstinence.
- AEDS uses an estimate of average ethanol content in the alcoholic beverages to convert the gallons of sold or shipped beer, wine, and spirits into gallons of ethanol (pure alcohol) before calculating per capita estimates. The conversion coefficients (i.e., proportion of pure alcohol for each beverage type) are 0.045 for beer, 0.129 for wine, and 0.411 for spirits (Doernberg and Stinson 1985). In the process of developing a new AEDS Data Reference Manual on per capita consumption of alcohol for the years 1970 through 1994 (Stinson et al. 1997), it was discovered that the conversion factor for spirits was inadvertently changed to 0.414 for the year 1986 and subsequently used through 1993.

The data in this report and the previous three surveillance reports (Williams et al. 1998, 1997, 1996) have been corrected. Readers should refer to the data in the AEDS Data Reference Manual (DRM) on per capita alcohol consumption (Stinson et al. 1997) for per capita consumption estimates prior to 1994. The DRM is available for downloading from NIAAA's Internet site (<http://www.niaaa.nih.gov>). Except for 1992, the conversion factor error for spirits had little effect on trends for either spirits or total per capita ethanol consumption. Even in 1992 the change in per capita ethanol consumption was minimal, with an increase of only 0.4 percent over 1991 versus the previously reported no change in 1992.

- The introduction of "light" beer, "light" wines, and coolers (both wine and spirits) in recent years may have slightly lowered the average ethanol content in some alcoholic beverages. For example, Kling (1991, 1989) suggests that there were decreases in the ethanol content of spirits during the 1980s. However, such decreases may be offset by the increase in sales of drinks with higher ethanol content, such as premium brand liquors, fortified wines, malt liquors, and locally produced beers and ales (microbrews). "Ice" beers and "dry" beers, for example, both have higher ethanol content than either premium or light beers (M. Shanken Communications, Inc. 1994). Therefore, any decrease in the average net ethanol content across all beverages has probably been minimal and not large enough to alter the trends in overall per capita consumption.
- Per capita consumption estimates in some States can be inflated by such factors as cross-border sales to buyers from neighboring States. Other factors that may influence per capita differences in consumption among States are age distributions of State populations, the extent of tourist and recreational trade, dry jurisdictions, types of off-premise outlets (e.g., grocery and convenience stores), general attitudes toward drinking, and the percentage of nondrinkers, or abstainers.
- In this report, AEDS uses the year 1977 as the base year for most of the comparative

analyses. AEDS began collecting and calculating per capita consumption estimates from actual sales and/or tax receipt reports from individual States in 1977.

- Finally, individuals familiar with survey reports and other scientific literature often are accustomed to the presentation of significance tests, or confidence intervals, on any data comparisons or trends. However, when the data are based on total actual sales and/or shipments, as is the case in the present report, there is no sampling. Thus, without sampling error, no confidence intervals or measures of statistical significance need be reported. Nonetheless, it is important to note that these data are still only estimates and may be subject to reporting error. Some other important cautions regarding the use of the per capita alcohol consumption estimates are noted in the latest DRM (Stinson et al. 1997).

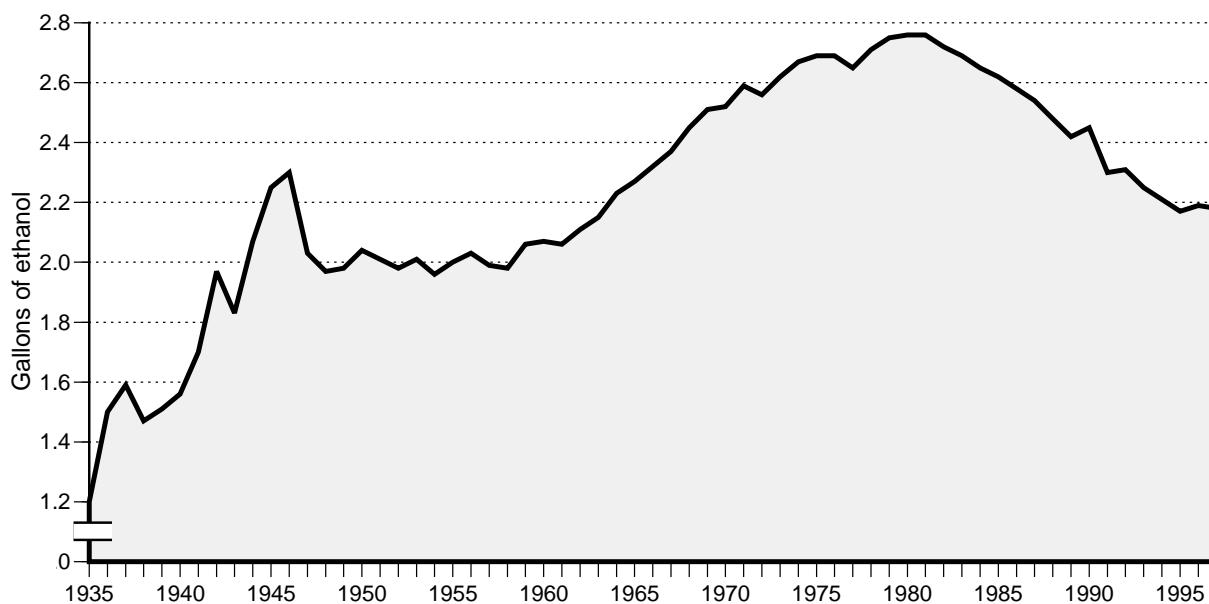
## NATIONAL DATA

### Background

Long-range trends on apparent per capita ethanol consumption by beverage type provide a historical perspective on national patterns of alcoholic beverage consumption. Excluding the years of Prohibition, table 1 (located at the end of this report) presents per capita estimates of consumption for beer, wine, spirits, and all beverages combined for the years 1850 to 1997. Figure 1 presents an area graph of per capita ethanol consumption in the United States for all alcoholic beverages combined for the years 1935 through 1997. A population base of persons ages 15 and older was used in the per capita estimates through 1969, and different conversions to pure alcohol (ethanol) were used within the beverage types prior to 1977 (Doernberg and Stinson 1985).

Table 1 shows that per capita ethanol consumption between 1850 and 1900 varied somewhat but decreased by 1.9 percent between those years. Total per capita consumption of ethanol decreased by 18 percent from 1901 to 1919, indicating a decrease in alcohol consumption prior to

**Figure 1.** Total per capita ethanol consumption, United States, 1935–97.



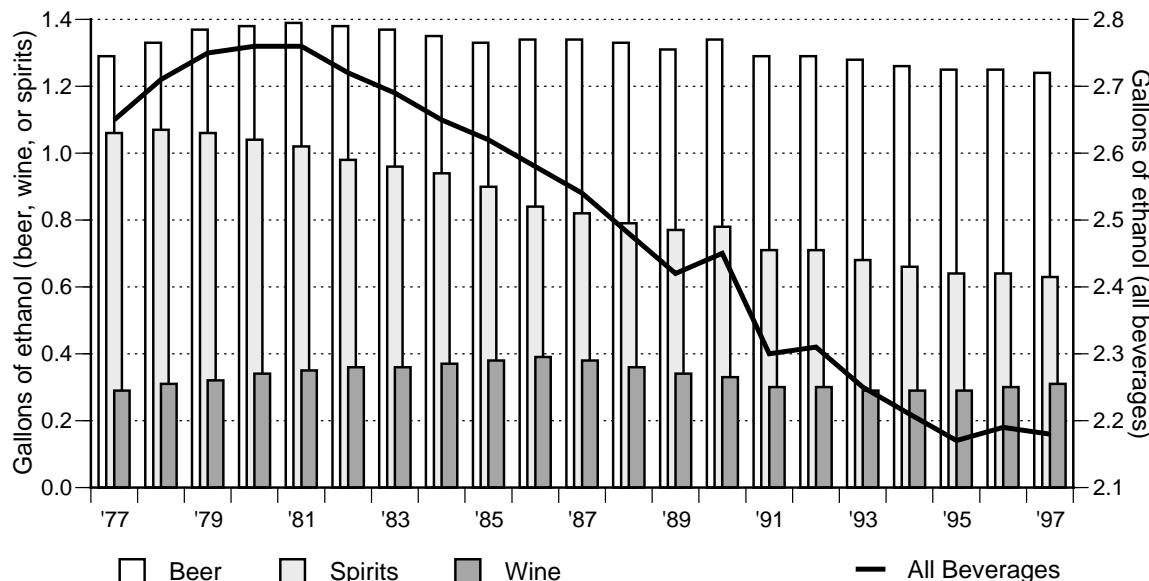
Prohibition. However, after Prohibition, from 1934 to 1939, total per capita consumption of ethanol increased by 55.7 percent. As shown in figure 1, two distinct peaks in per capita consumption occurred during the 1940s—one in 1942 and one in 1946—resulting in an overall 26.9 percent increase in consumption. From 1950 through 1959, there were slight annual increases and decreases, with a very small increase of 1 percent in overall ethanol consumption. However, in the 1960s there was a fairly rapid increase in alcohol consumption (21.3 percent), followed by a moderate increase (9.1 percent) in the 1970s. During the 1980s per capita alcohol consumption decreased 12 percent—the only sustained decrease since Prohibition. Apparent per capita consumption of alcohol in 1990 increased by 1.2 percent from 1989, ending a decline that lasted through the 1980s. However, this 1990 increase was an anomaly caused by a late surge in sales in the last quarter of 1990, a result of the new Federal Excise Tax (FET) increases on alcoholic beverages in 1991 (Jobson Publishing Corporation 1992). In 1991 overall per capita alcohol consumption dropped by 6.1 percent (from 2.45 to

2.30 gallons ethanol). Per capita consumption increased marginally in 1992 (0.4 percent) to 2.31 gallons ethanol, partially rebounding from the decrease in 1991. Between 1992 and 1993 overall per capita consumption decreased by 2.6 percent (from 2.31 to 2.25 gallons ethanol), and between 1993 and 1994, per capita consumption dropped by 1.8 percent. Between 1994 and 1995 overall per capita consumption declined by another 1.8 percent but, between 1995 and 1996, overall per capita alcohol consumption again increased (0.9 percent), representing the third annual increase during the 1990s. In 1997 per capita alcohol consumption declined by 0.5 percent from its 1996 level. From 1990 to 1997, overall per capita consumption has decreased by 11 percent.

#### **Apparent Per Capita Alcohol Consumption, 1977–97**

Figure 2 presents separate per capita ethanol consumption estimates for beer, wine, and spirits for 1977 through 1997. Between 1996 and 1997, per capita consumption decreased for beer (from 1.25 to 1.24 gallons ethanol), increased for wine (from 0.30 to 0.31 gallons ethanol), and decreased for spirits

**Figure 2.** Per capita ethanol consumption by beverage type, United States, 1977–97.



(from 0.64 to 0.63 gallons ethanol). Per capita consumption of spirits in 1997 was at its lowest level since 1939, resuming the downward trend seen in the 1990s.

### Percent Change in Per Capita Consumption, 1977–97

Figure 3 shows the percent change in overall per capita consumption for each year and beverage type relative to its 1977 value. The percent change for all alcoholic beverages combined increased gradually from 1977 to 1980, leveled off in 1980 and 1981, and then began an 8-year decline in 1982 that stopped with the increase in per capita consumption in 1990. Overall per capita consumption decreased in 1991, increased slightly in 1992, decreased in 1993, 1994, and 1995, increased again in 1996, and resumed its decline in 1997. Since 1977 overall per capita consumption of alcohol has decreased by 17.4 percent.

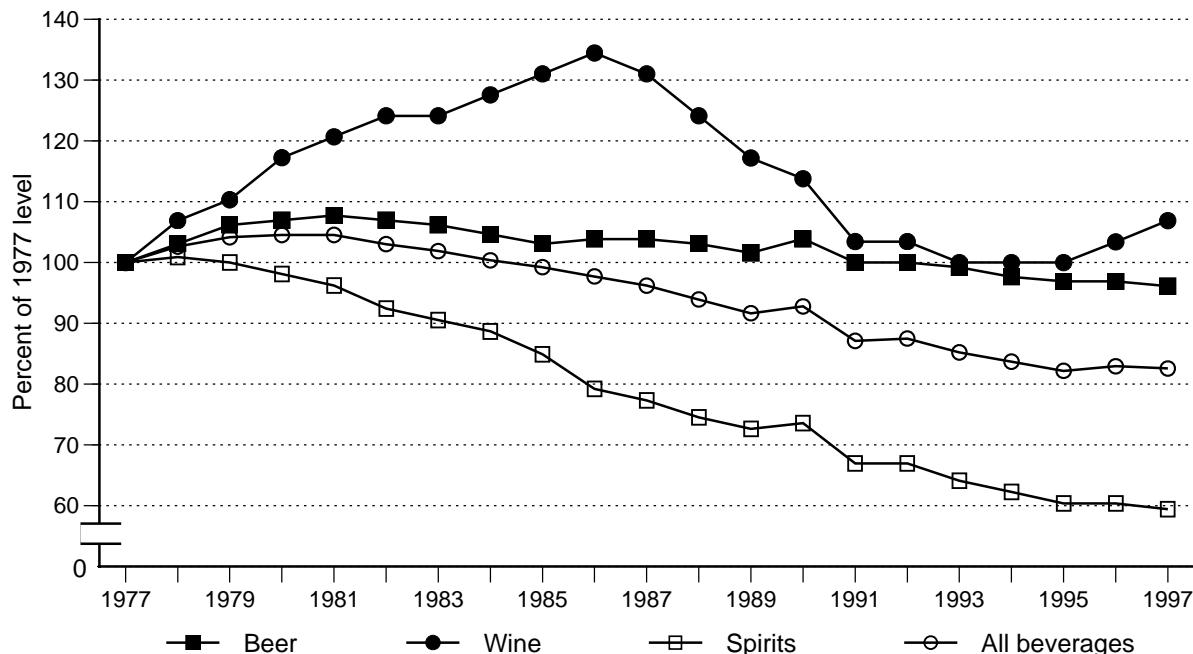
Per capita consumption of beer increased gradually from 1977 to 1981, decreased from 1981 to 1985, increased marginally in 1986, remained the same in 1987, decreased in 1988

and 1989, increased in 1990, decreased again in 1991, remained the same in 1992, decreased in 1993, 1994, and 1995, showed no change in 1996, and resumed its decline in 1997. Thus, per capita consumption of beer was 3.9 percent lower in 1997 than in 1977.

Except for 1983, per capita consumption of wine increased each year from 1977 to 1986, decreased from 1987 through 1991, remained level in 1992, decreased in 1993, showed no change in 1994 and 1995, and increased in 1996 and again in 1997. Since 1977 per capita consumption of wine has increased 6.9 percent.

Consumption of spirits increased marginally from 1977 to 1978, declined through 1989, increased slightly in 1990, leveled off in 1991 and 1992, decreased each year from 1993 to 1995, showed no change in 1996, and decreased again in 1997. Thus, per capita consumption of spirits in 1997 decreased by 40.6 percent from its 1977 level. The 20-year decline in total per capita consumption (2.64 gallons ethanol in 1977

**Figure 3.** Percent change in per capita ethanol consumption, United States, 1977–97.



versus 2.18 gallons ethanol in 1997) is a reflection of the substantial decline in per capita spirits consumption (1.06 gallons ethanol in 1977 versus 0.63 gallons in 1997). At 0.63 gallons ethanol in 1997, per capita consumption of spirits is at its lowest level in 58 years.

In 1997 beer represented 56.9 percent of the per capita consumption of ethanol from all alcoholic beverages combined. Beer ranked fourth (behind soft drinks, coffee, and milk) in per capita consumption of any kind of beverage product, a position it has held for many years (Adams Business Media 1998).

Wine represented 14.2 percent of the per capita consumption of ethanol from all alcoholic beverages combined in 1997 and it ranked ninth (behind soft drinks, coffee, milk, beer, bottled water, tea, juices, and powdered drinks) in per capita consumption of all beverage products (Adams Business Media 1998). Distilled spirits beverages ranked 10th in 1997 (behind soft drinks, coffee, milk, beer, bottled water, tea, juices, powdered drinks, and

wine) in per capita consumption of all beverage products (Adams Business Media 1998). In 1997 distilled spirits comprised 28.9 percent of total ethanol consumed from all alcoholic beverages combined.

## STATE DATA

### Apparent Consumption for 1997

Table 2 presents the 1997 consumption data on total beverage volume; total ethanol volume; and per capita ethanol volume of beer, wine, spirits, and total beverages for each of the 50 States and the District of Columbia. The data also are aggregated by census regions and the United States as a whole.

Table 2 ranks the States and the District of Columbia into 10 groups (deciles) based on high-to-low distributions of total per capita consumption of ethanol. Placement in the first decile indicates the State ranks among the top 10 percent of States in total per capita consumption of ethanol, placement in the second decile indicates the top 20 percent, and so on. In 1997 the States in the highest decile

on total per capita consumption (in gallons ethanol) were New Hampshire (4.08), the District of Columbia (4.01), Nevada (3.96), Delaware (2.88), and Wisconsin (2.77). Between 1996 and 1997 per capita consumption of all alcoholic beverages combined in the top decile states increased in Delaware, Wisconsin, and the District of Columbia, but decreased in New Hampshire and Nevada. States in the lowest decile (and their total per capita consumption of ethanol) in 1997 were Kentucky (1.73), Kansas (1.73), Oklahoma (1.67), West Virginia (1.60), and Utah (1.29). Between 1996 and 1997 States in the lowest decile showed an increase (Kansas), no change (Utah, Kentucky, and West Virginia), and a decrease (Oklahoma) in overall per capita ethanol consumption.

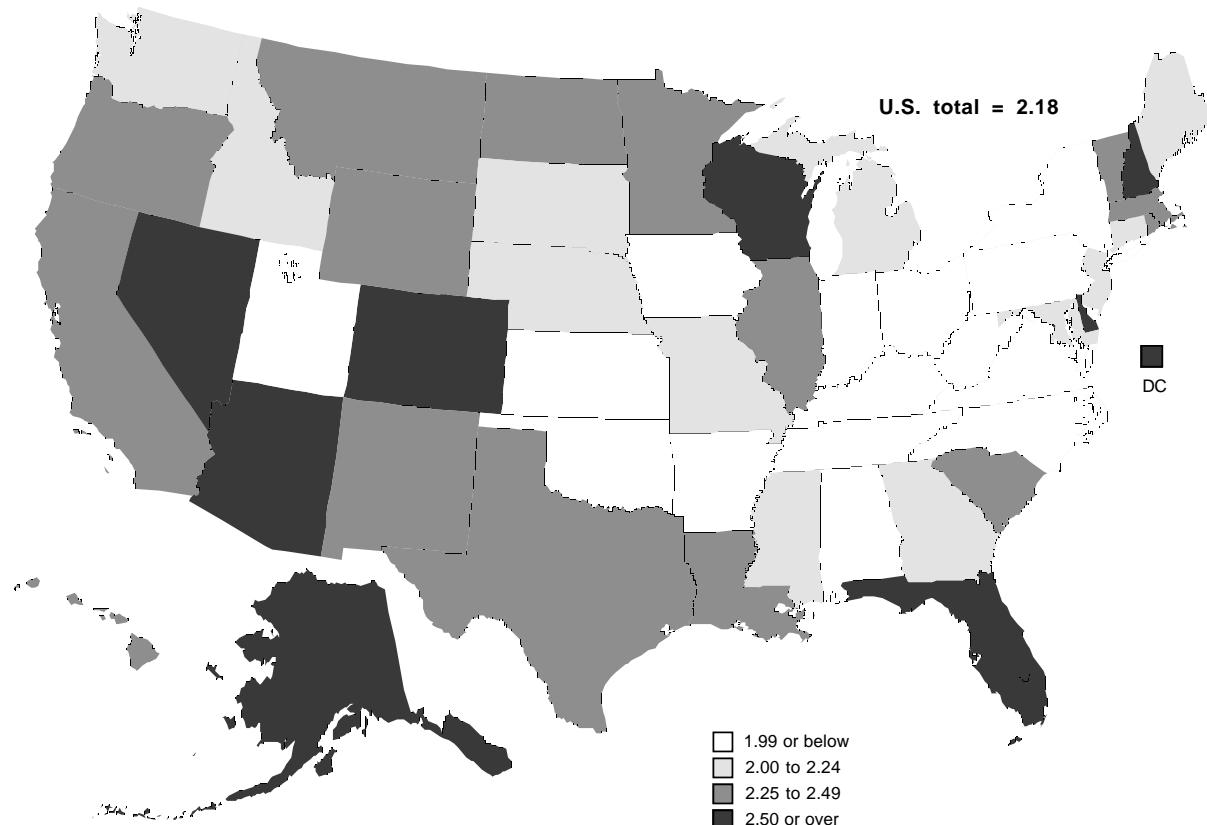
Figure 4 shows total per capita consumption of ethanol in 1997 for each State and the District of Columbia. Eight States (New Hampshire, Nevada, Delaware, Arizona, Colorado, Wisconsin, Florida, and Alaska) and

the District of Columbia had per capita consumption levels of 2.50 or more gallons ethanol (the highest category in figure 4). New Hampshire, Nevada, and the District of Columbia had per capita ethanol consumption estimates of 3.00 gallons ethanol or higher. By comparison, in 1980 a total of 18 States and the District of Columbia had combined per capita ethanol consumption levels of 3.00 gallons ethanol or higher. Fifteen States (Alabama, Arkansas, Indiana, Iowa, Kansas, Kentucky, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, Tennessee, Utah, Virginia, and West Virginia) had combined per capita consumption levels at or below 1.97 gallons ethanol in 1997. In 1980 only eight States had per capita consumption levels at or below 2.00 gallons ethanol.

#### **Trends in Apparent Consumption, 1977–97**

Table 3 presents State per capita consumption data by beverage type and for all alcoholic beverages combined from 1977 to

**Figure 4.** Total per capita consumption in gallons of ethanol by State, United States, 1997.



1997. In addition, table 3 presents aggregations of the per capita consumption data for census regions and the United States as a whole. Decile rankings for the States have been computed for total per capita ethanol consumption only. Users of this report should interpret decile changes with considerable caution and with reference to the actual amounts of consumption per capita. Very small increases, decreases, or even no change in the per capita consumption values can result in changes in the decile rankings of the States for different years.

Between 1996 and 1997, total per capita consumption from all alcoholic beverages combined increased in 15 States and the District of Columbia, remained unchanged in 6 States, and decreased in 29 States. For per capita beer consumption, 12 States and the District of Columbia had increases, 25 States had decreases, and 13 States had no change. For wine consumption, 23 States and the District of Columbia had increases, 9 States

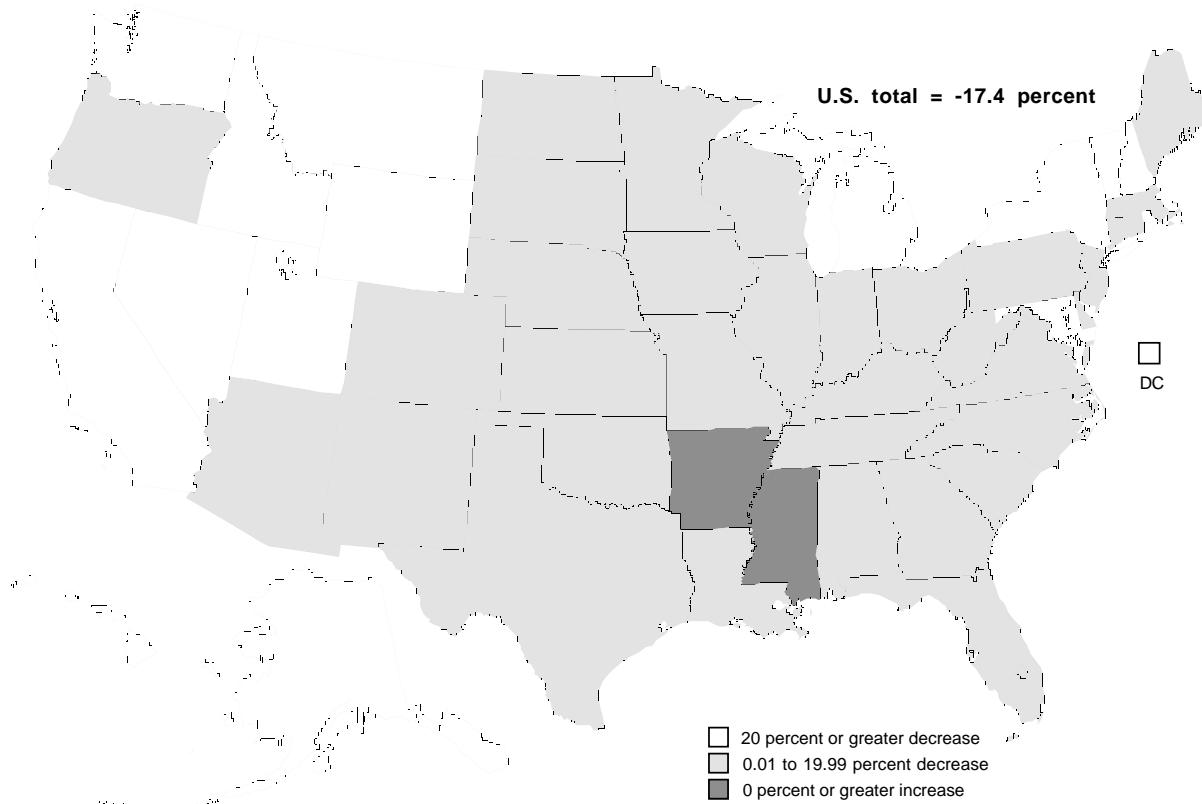
had decreases, and 18 States had no change. For spirits consumption, 9 States and the District of Columbia had increases, 26 States had decreases, and 15 States had no change.

Figure 5 presents a map of percentage increases or decreases between 1977 and 1997 in overall per capita consumption among the individual States and the District of Columbia. Between 1977 and 1997, the 50 States and the District of Columbia experienced a 17.4 percent decrease in overall per capita ethanol consumption. Over the 20-year study period, only two States (Arkansas and Mississippi) showed an increase in total per capita ethanol consumption. A total of 35 States had a decrease of under 20 percent, and 13 States and the District of Columbia had a decrease of 20 percent or greater.

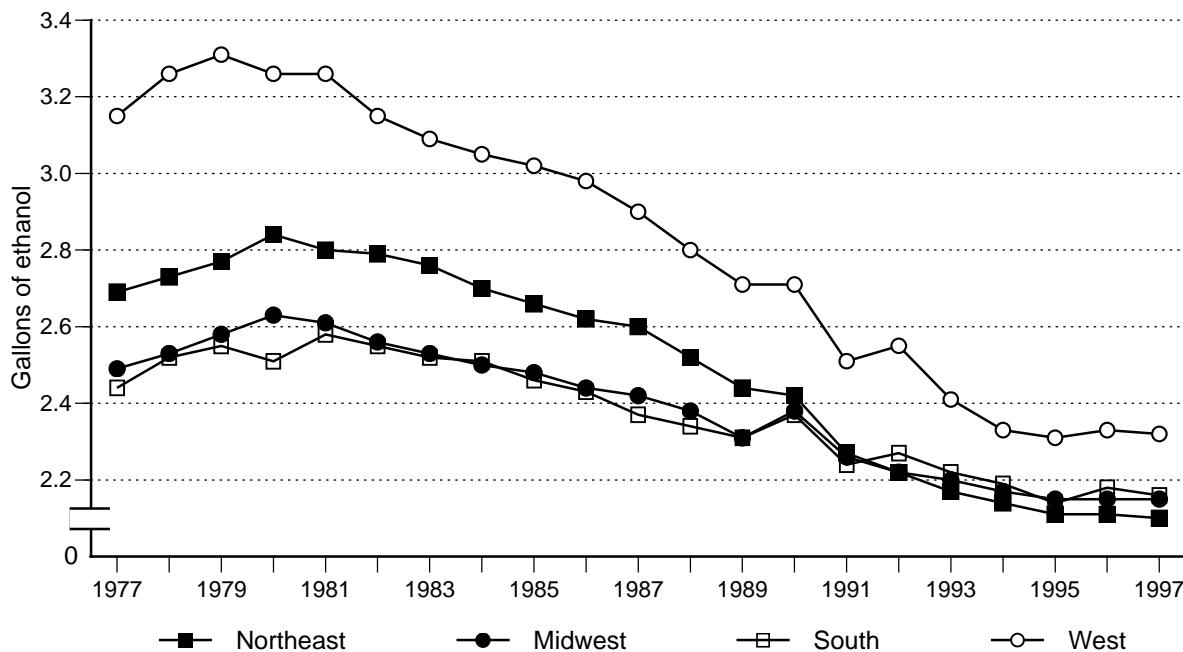
## REGIONAL DATA

Several AEDS analyses have been conducted over the years using U.S. Census

**Figure 5.** Percent change in total per capita ethanol consumption by State, United States, 1977–97.



**Figure 6.** Total per capita ethanol consumption by region, United States, 1977–97.



Bureau regions<sup>1</sup> as the unit of analysis. One advantage in using census regions is that the per capita consumption data can be compared with other U.S. Census Bureau data and with national surveys (e.g., drinking and food frequency surveys) grouped by region.

### Regional Trends in Consumption for All Beverages, 1977–97

Figure 6 presents regional trends in apparent per capita ethanol consumption for all alcoholic beverages combined over the years 1977 to 1997. As shown in the figure, overall per capita consumption tends to be highest in the West, with relatively few differences among the Northeast, the Midwest, and the South since 1990. In the West, the decline in per capita consumption of all alcoholic

beverages combined since 1981 was precipitous through 1989, evidenced no change in 1990, decreased in 1991, increased in 1992, decreased in 1993 through 1995, increased in 1996, and decreased again in 1997. Compared to the West, changes in per capita consumption in the Northeast, Midwest, and South over the years have tended to be more gradual. Between 1996 and 1997 no change in overall per capita consumption was found in the Midwest census region, but overall per capita consumption decreases were found in the Northeast (0.5 percent), South (0.9 percent), and West (0.4 percent).

<sup>1</sup> The following are the census regions and the States they comprise: *Northeast*—Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; *Midwest*—Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; *South*—Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; *West*—Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

## Regional Trends in Consumption for Individual Beverage Types, 1977–97

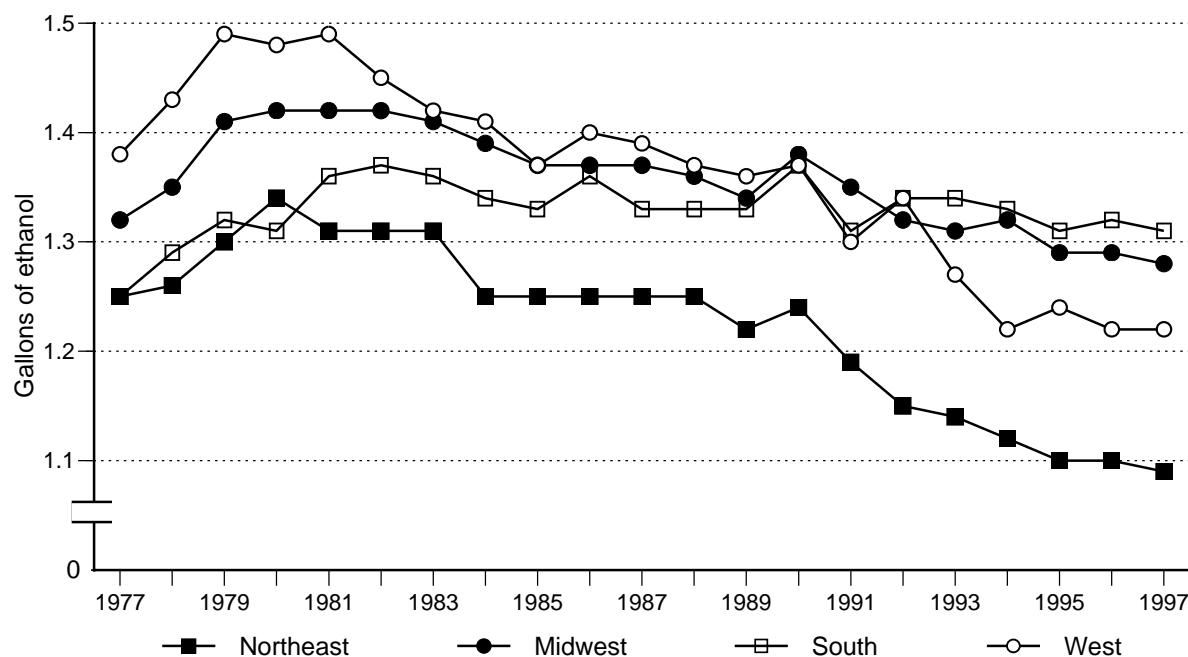
National trends in consumption of all alcoholic beverages combined sometimes can mask regional differences in the consumption of specific beverage types. Figure 7 presents apparent per capita beer consumption trends in each of the four census regions for 1977 to 1997. Beer consumption tends to be highest in the West, followed by the Midwest, South, and Northeast until 1990, when the relative positions of the Midwest, South, and West changed. Between 1996 and 1997 a decrease in per capita consumption of beer was found in the Northeast, Midwest, and South, and no change was found in the West.

As shown in figure 8, patterns of wine consumption since 1977 also differ among the regions. The West again shows the highest levels of per capita wine consumption, followed by the Northeast. Both California in the West and New York in the Northeast are notable wine production States. The Midwest and South tend to have the lowest levels of per

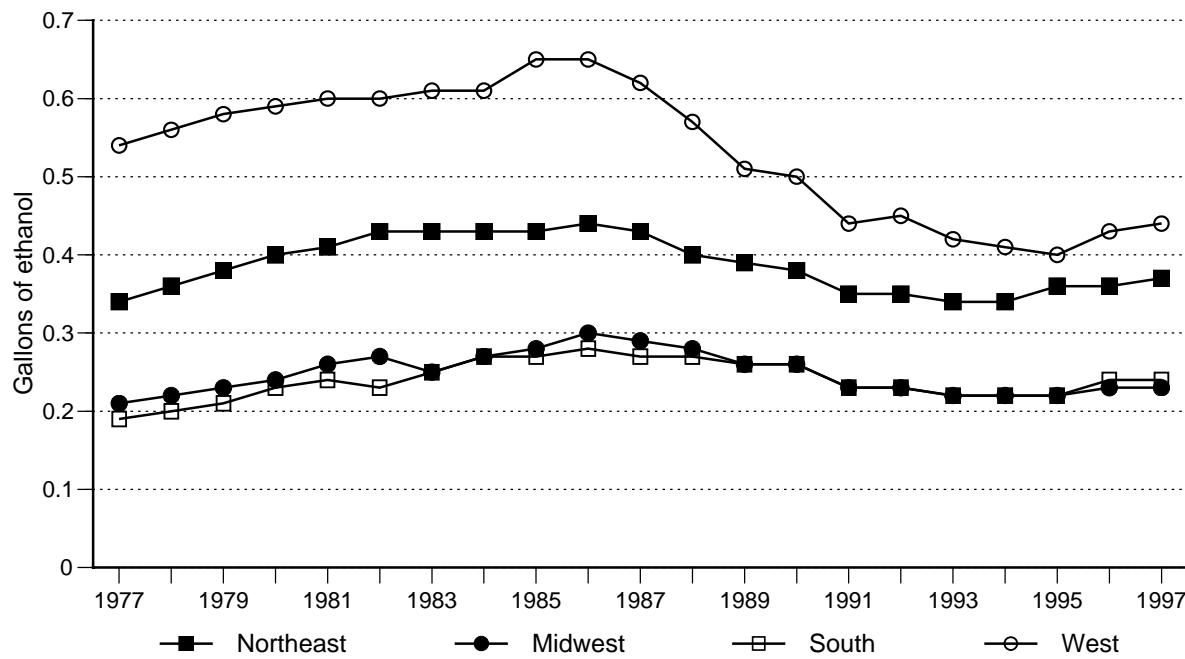
capita wine consumption, with little difference between the two. Between 1996 and 1997 per capita wine consumption increased in the West and Northeast, while no change was found in the South and Midwest.

The largest changes in per capita consumption generally have occurred in the consumption of spirits (see figure 9), both regionally and nationally. The regions have followed similar patterns of decline in spirits consumption since 1979; differences are primarily in the magnitude of the change. The tendency of the regions to become more similar in terms of per capita ethanol consumption from spirits over the years is notable. Between 1996 and 1997 per capita spirits consumption decreased in the Northeast, South, and West but increased slightly in the Midwest.

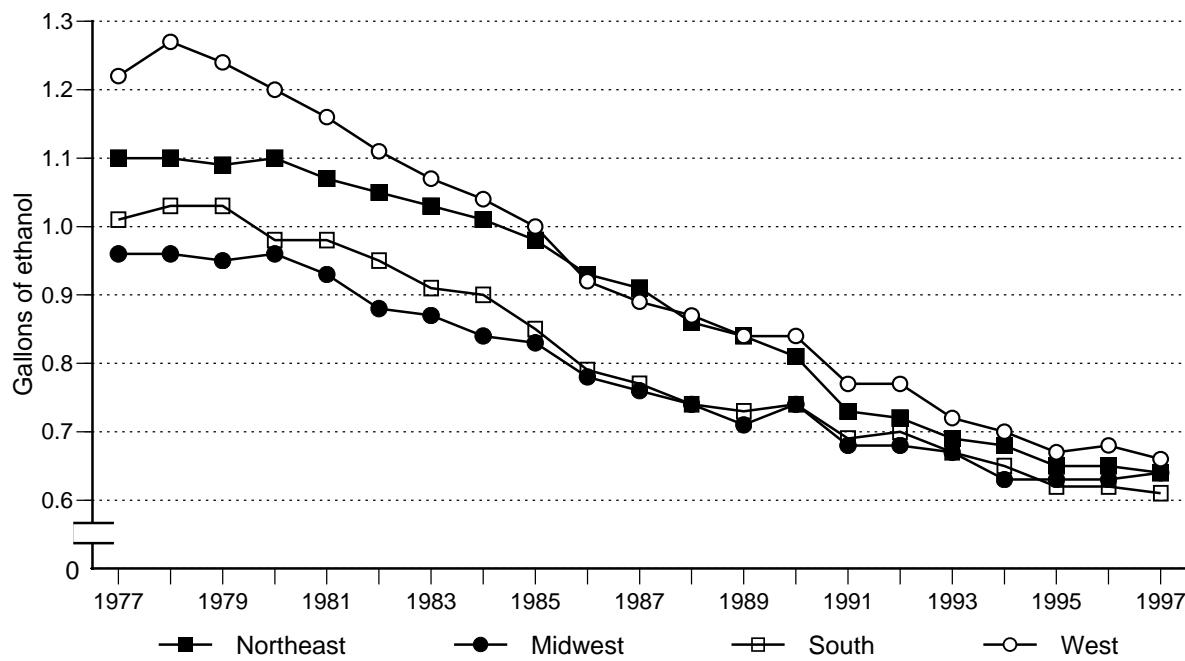
**Figure 7.** Per capita ethanol consumption from beer by region, United States, 1977–97.



**Figure 8.** Per capita ethanol consumption from wine by region, United States, 1977–97.



**Figure 9.** Per capita ethanol consumption from spirits by region, United States, 1977–97.



## **PER-DRINKER CONSUMPTION IN SELECTED STATES**

Per capita alcohol consumption data from tables 1, 2, and 3 in this report are based on the total population of persons ages 14 and older in the respective geographic units. Such data underestimate average consumption when the focus is on only those individuals who actually drink alcoholic beverages. This is because both nondrinkers and drinkers ages 14 and older are included in the denominator used to calculate the per capita data. It is well known that the percentage of abstainers varies considerably from State to State. Therefore, when reasonable estimates are available for the number of abstainers, they can be subtracted from the denominator, thereby providing an estimate of average consumption among the drinking population.

The BRFSS, conducted by individual States and coordinated by the CDC, provides estimates of the percentage of abstainers in participating States. All 50 States and the District of Columbia participated in the BRFSS in 1997. The BRFSS is a telephone survey of individuals ages 18 and older; BRFSS questions related to alcohol consumption are reported for the month prior to the BRFSS interview. BRFSS data provide estimates of each participating State's abstention rate (i.e., the percentage of individuals ages 18 and older who consumed no alcoholic beverages in the month prior to the telephone interview).

Table 4 presents the percentage of abstainers from 1986 to 1997, as appropriate for each of the States participating in the BRFSS. Per capita alcohol consumption estimates are provided, as are the estimates on per-drinker average consumption. The estimates of average consumption are only crude approximations because the respondents may have consumed alcohol during the year of the interview but not during the month prior to the interview. Thus, BRFSS "abstainers" may include people who are infrequent or even "heavy" drinkers who have not had a drink in the past 30 days because of illness, alcoholism

treatment, or other circumstances.

State-by-State comparisons among these BRFSS estimates should be made with caution. The individual State samples may have fairly large standard errors, so relatively large differences are required for statistical significance. In addition, design effects inflate the magnitude of such standard errors. Finally, the abstainers identified in the BRFSS are from a population ages 18 and older; thus, detailed comparisons with other per capita estimates are inappropriate. Nonetheless, the estimates should represent a reasonable approximation of the per-drinker average consumption in each State.

In 1997 the percentage of abstainers in the BRFSS ranged from a low of 29.8 percent in Wisconsin to a high of 71.7 percent in Utah. In the States for which BRFSS data are available, adjusting for abstention rates makes a dramatic difference in the ranking the States on alcohol consumption. One striking effect can be seen among several States in the South, whose historically low levels of per capita consumption are due mainly to a higher percentage of abstainers in their populations. Hence, the per-drinker consumption estimates in these States are more in line with the estimates of other States. States with high rates of abstention generally show much higher average per-drinker consumption estimates. States with low rates of abstention show average per-drinker consumption estimates more in line with the per capita rates.

The five highest States in the measures of average consumption per drinker (in gallons ethanol) were the District of Columbia (9.17), New Hampshire (6.66), Tennessee (6.49), Arizona (6.30) and Nevada (6.29). The five lowest States in the measures of average consumption per drinker (in gallons ethanol) were Iowa (3.49), Virginia (3.50), Michigan (3.56), Connecticut (3.57) and Washington (3.62).

## **DISCUSSION**

United States per capita consumption of all alcoholic beverages combined in 1997 was

2.18 gallons ethanol. In 1997, overall per capita consumption was lower than in any other year since 1963. By census region between 1996 and 1997, overall per capita consumption of alcohol decreased in the Northeast, South, and West (0.5, 0.9, and 0.4 percent, respectively) but remained unchanged in the Midwest. According to industry predictions, the 1997 decrease in overall per capita consumption of alcohol was not unexpected (M. Shanken Communications 1997a, 1997b, 1997c). However, industry predictions suggest that the years of declining alcohol consumption may soon end because of the ongoing increase in the number of persons ages 21 and older (M. Shanken Communications 1998a, 1998b, 1998c).

The national decrease in per capita alcohol consumption in 1997 was generally characteristic of individual States. In 1997, per capita consumption of all alcoholic beverages decreased in 29 States, and per capita consumption of beer decreased in 25 States. However, per capita wine consumption increased in 23 States and the District of Columbia. While the magnitude of the changes in per capita consumption between 1996 and 1997 was not dramatic, the number of directional changes (increases or decreases) in overall per capita consumption was noteworthy.

Market analysts suggest that the 1997 decreases in alcohol consumption are unlikely to continue through the rest of the 1990s, and in fact may be reversed in the coming years (M. Shanken Communications 1998a, 1998b, 1998c). This is likely to affect one of the alcohol objectives in *Healthy People 2000: National Health Promotion and Disease Prevention Objectives* (U.S. Department of Health and Human Services 1991).

It seems somewhat doubtful that the national health objective to reduce per capita alcohol consumption to an annual average of no more than 2 gallons ethanol per person by the Year 2000 can be achieved, even if per capita ethanol estimates continue to decrease marginally for the rest of the 1990s. Even with

the decrease (0.5 percent) in overall per capita consumption in 1997 and with the national objective measured to the end of the Year 2000, overall per capita alcohol consumption will need to decrease by 8.3 percent (i.e., an average of 2.8 percent annually) to meet the alcohol consumption objective in *Healthy People 2000*.

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**Table 1.** Apparent per capita ethanol consumption, United States, 1850–1997. [Gallons of ethanol, based on population age 15 and older prior to 1970 and on population age 14 and older thereafter]

Year	Beer	Wine	Spirits	All beverages
1997 .....	1.24	0.31	0.63	2.18
1996 .....	1.25	0.30	0.64	2.19
1995 .....	1.25	0.29	0.64	2.17
1994 .....	1.26	0.29	0.66	2.21
1993 .....	1.28	0.29	0.68	2.25
1992 .....	1.29	0.30	0.71	2.31
1991 .....	1.29	0.30	0.71	2.30
1990 .....	1.34	0.33	0.78	2.45
1989 .....	1.31	0.34	0.77	2.42
1988 .....	1.33	0.36	0.79	2.48
1987 .....	1.34	0.38	0.82	2.54
1986 .....	1.34	0.39	0.84	2.58
1985 .....	1.33	0.38	0.90	2.62
1984 .....	1.35	0.37	0.94	2.65
1983 .....	1.37	0.36	0.96	2.69
1982 .....	1.38	0.36	0.98	2.72
1981 .....	1.39	0.35	1.02	2.76
1980 .....	1.38	0.34	1.04	2.76
1979 .....	1.37	0.32	1.06	2.75
1978 .....	1.33	0.31	1.07	2.71
1977 .....	1.29	0.29	1.06	2.64
1976 .....	1.27	0.32	1.10	2.69
1975 .....	1.26	0.32	1.11	2.69
1974 .....	1.25	0.31	1.11	2.67
1973 .....	1.20	0.31	1.10	2.62
1972 .....	1.17	0.30	1.09	2.56
1971 .....	1.15	0.31	1.12	2.59
1970 .....	1.14	0.27	1.11	2.52
1969 .....	1.12	0.26	1.13	2.51
1968 .....	1.09	0.26	1.10	2.45
1967 .....	1.07	0.25	1.05	2.37
1966 .....	1.06	0.24	1.02	2.32
1965 .....	1.04	0.24	0.99	2.27
1964 .....	1.04	0.24	0.95	2.23
1963 .....	1.01	0.23	0.91	2.15
1962 .....	0.99	0.22	0.90	2.11
1961 .....	0.97	0.23	0.86	2.06
1960 .....	0.99	0.22	0.86	2.07
1959 .....	1.00	0.22	0.84	2.06
1958 .....	0.96	0.22	0.80	1.98
1957 .....	0.97	0.22	0.80	1.99
1956 .....	1.00	0.22	0.81	2.03
1955 .....	1.01	0.22	0.77	2.00
1954 .....	1.01	0.21	0.74	1.96
1953 .....	1.04	0.20	0.77	2.01
1952 .....	1.04	0.21	0.73	1.98
1951 .....	1.03	0.20	0.78	2.01
1950 .....	1.04	0.23	0.77	2.04

**Table 1.** Apparent per capita ethanol consumption, United States, 1850–1997. [Gallons of ethanol, based on population age 15 and older prior to 1970 and on population age 14 and older thereafter] (Continued)

Year	Beer	Wine	Spirits	All beverages
1949 .....	1.06	0.22	0.70	1.98
1948 .....	1.07	0.20	0.70	1.97
1947 .....	1.11	0.16	0.76	2.03
1946 .....	1.07	0.24	0.99	2.30
1945 .....	1.17	0.20	0.88	2.25
1944 .....	1.13	0.18	0.76	2.07
1943 .....	1.00	0.17	0.66	1.83
1942 .....	0.90	0.22	0.85	1.97
1941 .....	0.81	0.18	0.71	1.70
1940 .....	0.73	0.16	0.67	1.56
1939 .....	0.75	0.14	0.62	1.51
1938 .....	0.75	0.13	0.59	1.47
1937 .....	0.82	0.13	0.64	1.59
1936 .....	0.79	0.12	0.59	1.50
1935 .....	0.68	0.09	0.43	1.20
1934 .....	0.61	0.07	0.29	0.97
(Prohibition)				
1916–1919.....	1.08	0.12	0.76	1.96
1911–1915.....	1.48	0.14	0.94	2.56
1906–1910.....	1.47	0.17	0.96	2.60
1901–1905.....	1.31	0.13	0.95	2.39
1896–1900.....	1.19	0.10	0.77	2.06
1891–1895.....	1.17	0.11	0.95	2.23
1881–1890.....	0.90	0.14	0.95	1.99
1871–1880.....	0.56	0.14	1.02	1.72
1870 .....	0.44	0.10	1.53	2.07
1860 .....	0.27	0.10	2.16	2.53
1850 .....	0.14	0.08	1.88	2.10

Sources: Williams, G.D.; Stinson, F.S.; Sanchez, L.L.; and Dufour, M.C. *Surveillance Report #47: Apparent Per Capita Consumption: National, State, and Regional Trends, 1977–96*. Rockville, MD: National Institute on Alcohol Abuse and Alcoholism, Division of Biometry and Epidemiology, Alcohol Epidemiologic Data System, December 1998.

Data updated from: Hyman, M.; Zimmerman, M.; Gurioli, C.; and Helrich, A. *Drinkers, Drinking and Alcohol-Related Mortality and Hospitalizations: A Statistical Compendium, 1980 edition*. New Brunswick, NJ: Rutgers University, 1980.

**Table 2.** Apparent alcohol consumption for States, census regions, and the United States, 1997. [Volume and ethanol in thousands of gallons, per capita consumption in gallons, based on population age 14 and older]

State or other geographic area	Beer			Wine			Spirits			All beverages		
	Volume	Ethanol	Per capita	Volume	Ethanol	Per capita	Volume	Ethanol	Per capita	Ethanol	Per capita	U.S. decile
Alabama .....	88,807	3,996	1.14	4,057	523	0.15	4,427	1,819	0.52	6,339	1.81	9
Alaska .....	13,569	611	1.32	1,307	169	0.36	1,002	412	0.89	1,191	2.58	2
Arizona .....	121,315	5,459	1.54	9,021	1,164	0.33	6,214	2,554	0.72	9,177	2.59	2
Arkansas .....	49,949	2,248	1.11	1,908	246	0.12	2,619	1,076	0.53	3,570	1.77	10
California .....	627,850	28,253	1.13	97,352	12,558	0.50	38,152	15,680	0.62	56,492	2.25	5
Colorado.....	93,210	4,194	1.35	9,320	1,202	0.39	6,321	2,598	0.84	7,995	2.57	2
Connecticut.....	57,055	2,567	0.97	10,144	1,309	0.49	4,837	1,988	0.75	5,864	2.22	5
Delaware .....	18,439	830	1.40	2,154	278	0.47	1,453	597	1.01	1,705	2.88	1
Dist. of Columb.	14,703	662	1.50	2,696	348	0.79	1,843	757	1.72	1,767	4.01	1
Florida .....	369,357	16,621	1.39	35,956	4,638	0.39	24,258	9,970	0.84	31,229	2.62	2
Georgia .....	161,788	7,280	1.23	11,692	1,508	0.25	10,382	4,267	0.72	13,056	2.20	6
Hawaii.....	29,513	1,328	1.40	2,818	364	0.38	1,310	538	0.57	2,230	2.35	4
Idaho .....	24,322	1,094	1.16	2,662	343	0.36	1,171	481	0.51	1,919	2.03	8
Illinois.....	270,769	12,185	1.29	25,720	3,318	0.35	15,423	6,339	0.67	21,841	2.32	5
Indiana .....	119,194	5,364	1.14	6,915	892	0.19	6,808	2,798	0.59	9,054	1.92	9
Iowa.....	66,865	3,009	1.30	2,142	276	0.12	2,567	1,055	0.46	4,340	1.88	9
Kansas .....	50,997	2,295	1.11	2,254	291	0.14	2,436	1,001	0.48	3,587	1.73	10
Kentucky .....	75,226	3,385	1.06	3,192	412	0.13	4,108	1,688	0.53	5,485	1.73	10
Louisiana .....	116,143	5,226	1.52	6,069	783	0.23	6,002	2,467	0.72	8,476	2.46	2
Maine.....	26,134	1,176	1.16	2,585	333	0.33	1,767	726	0.71	2,236	2.20	6
Maryland .....	95,792	4,311	1.05	9,199	1,187	0.29	7,341	3,017	0.74	8,514	2.08	7
Massachusetts .....	127,402	5,733	1.15	19,337	2,494	0.50	9,360	3,847	0.77	12,075	2.43	3
Michigan .....	202,667	9,120	1.16	13,538	1,746	0.22	12,614	5,184	0.66	16,051	2.05	7
Minnesota.....	104,045	4,682	1.25	7,832	1,010	0.27	7,701	3,165	0.85	8,857	2.37	3
Mississippi.....	66,745	3,004	1.39	1,514	195	0.09	3,238	1,331	0.62	4,530	2.10	7
Missouri.....	127,040	5,717	1.32	7,445	960	0.22	6,688	2,749	0.64	9,426	2.18	6
Montana .....	23,761	1,069	1.51	1,603	207	0.29	1,104	454	0.64	1,730	2.44	3
Nebraska .....	40,276	1,812	1.37	1,890	244	0.18	1,847	759	0.58	2,815	2.13	7
Nevada.....	57,686	2,596	1.96	6,331	817	0.62	4,459	1,833	1.38	5,245	3.96	1
New Hampshire	36,662	1,650	1.75	4,059	524	0.55	4,088	1,680	1.78	3,854	4.08	1

**Table 2.** Apparent alcohol consumption for States, census regions, and the United States, 1997. [Volume and ethanol in thousands of gallons, per capita consumption in gallons, based on population age 14 and older] (Continued)

State or other geographic area	Beer			Wine			Spirits			All beverages			
	Volume	Ethanol	Per capita	Volume	Ethanol	Per capita	Volume	Ethanol	Per capita	Ethanol	Per capita	U.S. decile	
New Jersey.....	144,225	6,490	1.00	21,679	2,797	0.43	11,937	4,906	0.76	14,193	2.19	6	
New Mexico.....	45,963	2,068	1.54	2,461	317	0.24	1,941	798	0.59	3,184	2.37	4	
New York.....	312,992	14,085	0.97	42,931	5,538	0.38	20,614	8,472	0.58	28,095	1.93	8	
North Carolina.	158,271	7,122	1.20	10,869	1,402	0.24	7,755	3,187	0.53	11,712	1.97	8	
North Dakota....	16,280	733	1.42	519	67	0.13	985	405	0.78	1,204	2.33	4	
Ohio.....	257,204	11,574	1.28	12,443	1,605	0.18	10,076	4,141	0.46	17,321	1.92	8	
Oklahoma.....	65,561	2,950	1.11	2,553	329	0.12	2,812	1,156	0.44	4,435	1.67	10	
Oregon.....	70,741	3,183	1.21	9,139	1,179	0.45	3,909	1,607	0.61	5,969	2.27	5	
Pennsylvania...	265,867	11,964	1.22	14,989	1,934	0.20	10,768	4,426	0.45	18,323	1.87	9	
Rhode Island...	22,599	1,017	1.26	2,865	370	0.46	1,296	533	0.66	1,919	2.38	3	
18	South Carolina	96,207	4,329	1.43	4,522	583	0.19	5,344	2,196	0.73	7,109	2.35	4
	South Dakota ...	17,776	800	1.36	599	77	0.13	993	408	0.69	1,285	2.18	7
	Tennessee.....	114,549	5,155	1.19	5,540	715	0.16	5,424	2,229	0.51	8,099	1.86	9
	Texas.....	525,261	23,637	1.57	23,979	3,093	0.20	17,672	7,263	0.48	33,993	2.25	5
	Utah.....	26,707	1,202	0.78	1,285	166	0.11	1,492	613	0.40	1,981	1.29	10
Vermont.....	13,238	596	1.24	1,736	224	0.47	737	303	0.63	1,123	2.35	4	
Virginia.....	138,220	6,220	1.14	12,497	1,612	0.30	6,407	2,633	0.48	10,465	1.92	8	
Washington.....	112,384	5,057	1.13	14,883	1,920	0.43	6,899	2,835	0.63	9,813	2.19	6	
West Virginia....	38,145	1,717	1.14	1,112	143	0.09	1,360	559	0.37	2,419	1.60	10	
Wisconsin.....	147,860	6,654	1.60	8,223	1,061	0.26	9,155	3,763	0.91	11,477	2.77	1	
Wyoming.....	11,800	531	1.39	505	65	0.17	766	315	0.82	911	2.38	3	
<i>Regions</i>													
Northeast.....	1,006,174	45,278	1.09	120,325	15,522	0.37	65,405	26,881	0.64	87,681	2.10		
Midwest.....	1,420,973	63,944	1.28	89,520	11,548	0.23	77,292	31,767	0.64	107,259	2.15		
South.....	2,193,164	98,692	1.31	139,510	17,997	0.24	112,445	46,215	0.61	162,904	2.16		
West.....	1,258,821	56,647	1.22	158,687	20,471	0.44	74,740	30,718	0.66	107,836	2.32		
U.S. total .....	5,879,132	264,561	1.24	508,042	65,537	0.31	329,882	135,581	0.63	465,680	2.18		

• Decile values apply only to State-level data. Numbers may not add due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older]

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Alabama					
1997 .....	1.14	0.15	0.52	1.81	9
1996 .....	1.17	0.15	0.54	1.86	9
1995 .....	1.15	0.15	0.53	1.82	9
1994 .....	1.17	0.17	0.54	1.88	9
1993 .....	1.15	0.17	0.56	1.88	9
1992 .....	1.02	0.19	0.59	1.80	10
1991 .....	1.01	0.17	0.59	1.77	10
1990 .....	1.13	0.18	0.62	1.93	9
1989 .....	1.10	0.17	0.60	1.87	9
1988 .....	1.10	0.18	0.61	1.89	9
1987 .....	1.10	0.18	0.61	1.89	9
1986 .....	1.09	0.18	0.64	1.90	9
1985 .....	1.06	0.17	0.67	1.90	9
1984 .....	1.02	0.19	0.69	1.90	10
1983 .....	1.01	0.17	0.71	1.89	10
1982 .....	1.00	0.18	0.72	1.89	10
1981 .....	1.00	0.19	0.73	1.92	10
1980 .....	0.96	0.16	0.74	1.86	10
1979 .....	0.98	0.12	0.84	1.94	10
1978 .....	0.98	0.12	0.88	1.97	9
1977 .....	0.99	0.13	0.84	1.96	9
Alaska					
1997 .....	1.32	0.36	0.89	2.58	2
1996 .....	1.33	0.34	0.96	2.63	2
1995 .....	1.46	0.39	1.03	2.88	1
1994 .....	1.53	0.40	1.10	3.03	1
1993 .....	1.32	0.32	0.93	2.56	2
1992 .....	1.54	0.42	1.08	3.04	1
1991 .....	1.54	0.43	1.14	3.12	1
1990 .....	1.62	0.46	1.25	3.33	1
1989 .....	1.57	0.46	1.24	3.27	1
1988 .....	1.60	0.49	1.23	3.32	1
1987 .....	1.64	0.54	1.29	3.46	1
1986 .....	1.68	0.56	1.27	3.51	1
1985 .....	1.68	0.58	1.53	3.78	1
1984 .....	1.73	0.58	1.56	3.86	1
1983 .....	1.76	0.61	1.70	4.06	1
1982 .....	1.75	0.56	1.74	4.05	1
1981 .....	1.71	0.57	1.82	4.10	1
1980 .....	1.55	0.50	1.70	3.76	1
1979 .....	1.50	0.47	1.65	3.62	1
1978 .....	1.39	0.45	1.68	3.52	2
1977 .....	1.19	0.42	1.70	3.31	2
Arizona					
1997 .....	1.54	0.33	0.72	2.59	2
1996 .....	1.57	0.34	0.75	2.66	1
1995 .....	1.51	0.29	0.70	2.51	3
1994 .....	1.61	0.31	0.74	2.65	2
1993 .....	1.65	0.29	0.80	2.73	2
1992 .....	1.62	0.32	0.83	2.76	2
1991 .....	1.60	0.35	0.80	2.75	2
1990 .....	1.59	0.37	0.80	2.77	3
1989 .....	1.68	0.36	0.85	2.89	2
1988 .....	1.64	0.42	0.88	2.94	2
1987 .....	1.67	0.46	0.86	2.99	2
1986 .....	1.77	0.46	0.91	3.14	2
1985 .....	1.67	0.46	1.00	3.12	2
1984 .....	1.57	0.45	1.06	3.08	3
1983 .....	1.62	0.44	1.00	3.06	3
1982 .....	1.74	0.40	0.99	3.13	3
1981 .....	1.78	0.42	1.01	3.22	3
1980 .....	1.69	0.36	0.98	3.03	4
1979 .....	1.86	0.39	1.17	3.42	2
1978 .....	1.77	0.37	1.10	3.25	2
1977 .....	1.70	0.34	1.05	3.10	3
Arkansas					
1997 .....	1.11	0.12	0.53	1.77	10
1996 .....	1.13	0.12	0.54	1.79	9

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1995.....	1.09	0.12	0.52	1.73	10
1994.....	1.08	0.13	0.47	1.68	10
1993.....	1.11	0.12	0.59	1.82	9
1992.....	1.13	0.13	0.66	1.92	9
1991.....	1.13	0.11	0.58	1.82	9
1990.....	1.13	0.13	0.61	1.87	9
1989.....	1.08	0.13	0.57	1.78	9
1988.....	1.07	0.14	0.53	1.74	10
1987.....	1.08	0.11	0.53	1.71	10
1986.....	1.06	0.09	0.48	1.63	10
1985.....	1.03	0.13	0.58	1.75	10
1984.....	1.02	0.12	0.64	1.78	10
1983.....	1.03	0.13	0.63	1.78	10
1982.....	1.03	0.12	0.63	1.78	10
1981.....	1.06	0.12	0.68	1.87	10
1980.....	1.00	0.12	0.69	1.81	10
1979.....	0.93	0.10	0.57	1.60	10
1978.....	0.97	0.11	0.73	1.82	10
1977.....	0.92	0.10	0.63	1.65	10
California					
1997.....	1.13	0.50	0.62	2.25	5
1996.....	1.11	0.49	0.64	2.24	5
1995.....	1.15	0.45	0.64	2.23	6
1994.....	1.09	0.47	0.68	2.24	6
1993.....	1.18	0.48	0.69	2.35	4
1992.....	1.28	0.51	0.76	2.55	3
1991.....	1.22	0.49	0.75	2.46	4
1990.....	1.32	0.59	0.87	2.78	2
1989.....	1.31	0.61	0.87	2.79	2
1988.....	1.34	0.68	0.89	2.90	2
1987.....	1.36	0.74	0.93	3.03	2
1986.....	1.36	0.79	0.96	3.11	2
1985.....	1.32	0.78	1.02	3.12	2
1984.....	1.38	0.74	1.07	3.19	2
1983.....	1.37	0.75	1.11	3.23	2
1982.....	1.37	0.72	1.14	3.23	3
1981.....	1.43	0.72	1.21	3.36	2
1980.....	1.42	0.71	1.25	3.38	2
1979.....	1.42	0.70	1.28	3.40	2
1978.....	1.36	0.68	1.32	3.36	2
1977.....	1.31	0.67	1.28	3.25	2
Colorado					
1997.....	1.35	0.39	0.84	2.57	2
1996.....	1.40	0.38	0.86	2.65	2
1995.....	1.48	0.35	0.80	2.63	2
1994.....	1.40	0.36	0.86	2.61	2
1993.....	1.42	0.37	0.88	2.67	2
1992.....	1.35	0.36	0.82	2.53	3
1991.....	1.39	0.35	0.87	2.63	3
1990.....	1.35	0.29	0.75	2.39	6
1989.....	1.40	0.37	0.84	2.60	3
1988.....	1.42	0.39	0.91	2.72	3
1987.....	1.43	0.44	0.93	2.80	3
1986.....	1.47	0.46	0.94	2.87	3
1985.....	1.47	0.50	1.18	3.15	2
1984.....	1.51	0.46	1.12	3.09	2
1983.....	1.57	0.46	1.12	3.15	3
1982.....	1.64	0.46	1.18	3.28	2
1981.....	1.63	0.44	1.26	3.33	2
1980.....	1.57	0.47	1.31	3.35	2
1979.....	1.68	0.47	1.37	3.52	2
1978.....	1.64	0.47	1.43	3.54	1
1977.....	1.43	0.36	1.22	3.01	3
Connecticut					
1997.....	0.97	0.49	0.75	2.22	5
1996.....	0.96	0.47	0.73	2.17	6
1995.....	0.98	0.49	0.78	2.26	5
1994.....	1.00	0.44	0.79	2.22	6
1993.....	0.97	0.44	0.80	2.21	6

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1992.....	1.02	0.45	0.84	2.31	6
1991.....	1.04	0.43	0.84	2.30	6
1990.....	1.09	0.46	0.92	2.46	6
1989.....	1.09	0.47	0.98	2.54	4
1988.....	1.14	0.51	1.07	2.71	3
1987.....	1.15	0.52	1.12	2.79	3
1986.....	1.13	0.51	1.15	2.79	3
1985.....	1.14	0.50	1.20	2.84	3
1984.....	1.10	0.50	1.20	2.80	4
1983.....	1.10	0.49	1.23	2.82	4
1982.....	1.04	0.49	1.20	2.73	6
1981.....	1.05	0.44	1.18	2.67	6
1980.....	1.06	0.43	1.21	2.70	6
1979.....	1.13	0.40	1.20	2.72	5
1978.....	1.07	0.38	1.20	2.65	6
1977.....	1.05	0.35	1.21	2.61	6
Delaware					
1997.....	1.40	0.47	1.01	2.88	1
1996.....	1.37	0.44	0.94	2.74	1
1995.....	1.32	0.40	0.94	2.66	2
1994.....	1.45	0.38	0.96	2.79	1
1993.....	1.47	0.36	0.95	2.78	1
1992.....	1.41	0.36	0.97	2.75	2
1991.....	1.40	0.35	0.96	2.71	2
1990.....	1.45	0.37	1.14	2.97	2
1989.....	1.40	0.38	1.13	2.91	2
1988.....	1.44	0.40	1.19	3.03	1
1987.....	1.44	0.42	1.22	3.08	2
1986.....	1.45	0.44	1.23	3.13	2
1985.....	1.46	0.41	1.30	3.16	2
1984.....	1.51	0.38	1.28	3.17	2
1983.....	1.53	0.35	1.34	3.22	2
1982.....	1.53	0.34	1.36	3.23	3
1981.....	1.51	0.32	1.39	3.23	3
1980.....	1.45	0.29	1.38	3.12	3
1979.....	1.38	0.27	1.34	2.99	4
1978.....	1.33	0.25	1.33	2.91	4
1977.....	1.32	0.24	1.35	2.91	4
District of Columbia					
1997.....	1.50	0.79	1.72	4.01	1
1996.....	1.49	0.77	1.54	3.80	1
1995.....	1.56	0.74	1.58	3.89	1
1994.....	1.56	0.76	1.57	3.89	1
1993.....	1.56	0.75	1.58	3.89	1
1992.....	1.64	0.72	1.77	4.13	1
1991.....	1.44	0.62	1.87	3.93	1
1990.....	1.42	0.77	1.97	4.16	1
1989.....	1.49	0.88	1.85	4.22	1
1988.....	1.47	0.99	2.02	4.48	1
1987.....	1.48	1.00	2.37	4.85	1
1986.....	1.52	1.04	2.19	4.75	1
1985.....	1.49	1.03	2.42	4.94	1
1984.....	1.56	1.11	2.68	5.34	1
1983.....	1.55	1.08	2.79	5.41	1
1982.....	1.48	1.00	2.91	5.39	1
1981.....	1.50	1.06	2.92	5.49	1
1980.....	1.49	0.99	2.94	5.42	1
1979.....	1.48	0.99	3.03	5.49	1
1978.....	1.43	0.94	3.14	5.51	1
1977.....	1.39	0.89	3.26	5.53	1
Florida					
1997.....	1.39	0.39	0.84	2.62	2
1996.....	1.42	0.38	0.84	2.64	2
1995.....	1.38	0.36	0.84	2.58	2
1994.....	1.44	0.34	0.89	2.66	2
1993.....	1.46	0.33	0.94	2.73	2
1992.....	1.47	0.34	0.97	2.79	1
1991.....	1.44	0.35	0.92	2.71	2
1990.....	1.54	0.39	1.04	2.97	2

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1989.....	1.51	0.39	1.00	2.90	2
1988.....	1.51	0.41	1.00	2.92	2
1987.....	1.51	0.42	1.03	2.95	2
1986.....	1.50	0.41	1.05	2.96	2
1985.....	1.47	0.41	1.16	3.04	3
1984.....	1.48	0.40	1.24	3.12	2
1983.....	1.56	0.40	1.23	3.19	2
1982.....	1.56	0.40	1.33	3.29	2
1981.....	1.55	0.39	1.38	3.31	3
1980.....	1.42	0.37	1.43	3.22	3
1979.....	1.47	0.37	1.51	3.34	2
1978.....	1.41	0.34	1.48	3.23	3
1977.....	1.33	0.33	1.47	3.13	2
Georgia					
1997.....	1.23	0.25	0.72	2.20	6
1996.....	1.25	0.24	0.72	2.20	6
1995.....	1.22	0.23	0.72	2.16	6
1994.....	1.19	0.21	0.78	2.18	6
1993.....	1.24	0.21	0.78	2.23	6
1992.....	1.23	0.22	0.80	2.24	6
1991.....	1.17	0.22	0.79	2.18	7
1990.....	1.22	0.23	0.87	2.32	7
1989.....	1.18	0.24	0.94	2.37	6
1988.....	1.22	0.26	0.92	2.40	6
1987.....	1.22	0.27	1.00	2.49	6
1986.....	1.22	0.27	0.95	2.43	6
1985.....	1.17	0.25	1.01	2.43	7
1984.....	1.18	0.23	1.06	2.48	7
1983.....	1.14	0.22	1.05	2.42	7
1982.....	1.12	0.21	1.04	2.37	8
1981.....	1.10	0.18	1.09	2.38	8
1980.....	1.07	0.19	1.09	2.35	8
1979.....	1.17	0.19	1.22	2.58	7
1978.....	1.14	0.19	1.26	2.59	7
1977.....	1.08	0.16	1.23	2.47	7
Hawaii					
1997.....	1.40	0.38	0.57	2.35	4
1996.....	1.43	0.38	0.59	2.40	4
1995.....	1.43	0.35	0.58	2.36	3
1994.....	1.47	0.38	0.63	2.48	3
1993.....	1.50	0.38	0.65	2.53	2
1992.....	1.55	0.39	0.69	2.63	2
1991.....	1.57	0.40	0.71	2.68	2
1990.....	1.65	0.40	0.80	2.86	2
1989.....	1.54	0.43	0.79	2.76	3
1988.....	1.62	0.45	0.79	2.86	3
1987.....	1.57	0.40	0.76	2.73	4
1986.....	1.60	0.44	0.85	2.88	3
1985.....	1.59	0.41	0.88	2.88	3
1984.....	1.65	0.41	0.91	2.97	3
1983.....	1.87	0.44	1.12	3.43	1
1982.....	1.80	0.48	1.14	3.42	1
1981.....	1.74	0.44	1.16	3.34	2
1980.....	1.65	0.46	1.21	3.31	2
1979.....	1.60	0.44	1.28	3.32	3
1978.....	1.38	0.46	1.30	3.15	3
1977.....	1.61	0.36	1.26	3.23	2
Idaho					
1997.....	1.16	0.36	0.51	2.03	8
1996.....	1.19	0.30	0.51	2.00	8
1995.....	1.16	0.31	0.53	2.00	8
1994.....	1.25	0.36	0.54	2.14	7
1993.....	1.27	0.29	0.56	2.12	7
1992.....	1.33	0.32	0.57	2.22	7
1991.....	1.32	0.32	0.57	2.20	7
1990.....	1.36	0.33	0.59	2.27	7
1989.....	1.23	0.30	0.56	2.09	8
1988.....	1.25	0.36	0.58	2.18	7
1987.....	1.31	0.38	0.58	2.26	7

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1986.....	1.34	0.38	0.61	2.33	7
1985.....	1.35	0.36	0.71	2.42	7
1984.....	1.40	0.31	0.72	2.43	7
1983.....	1.44	0.30	0.76	2.51	7
1982.....	1.47	0.31	0.81	2.58	7
1981.....	1.54	0.33	0.83	2.70	6
1980.....	1.53	0.30	0.77	2.60	7
1979.....	1.55	0.27	0.84	2.65	6
1978.....	1.50	0.26	0.80	2.56	7
1977.....	1.50	0.22	0.79	2.52	7
Illinois					
1997.....	1.29	0.35	0.67	2.32	5
1996.....	1.30	0.34	0.70	2.35	4
1995.....	1.33	0.34	0.67	2.35	4
1994.....	1.34	0.34	0.70	2.38	4
1993.....	1.34	0.34	0.73	2.41	4
1992.....	1.35	0.35	0.75	2.45	4
1991.....	1.39	0.34	0.76	2.49	4
1990.....	1.44	0.37	0.83	2.63	3
1989.....	1.38	0.35	0.82	2.56	4
1988.....	1.42	0.37	0.85	2.64	4
1987.....	1.41	0.39	0.87	2.66	4
1986.....	1.40	0.39	0.90	2.68	4
1985.....	1.38	0.37	0.98	2.72	5
1984.....	1.40	0.37	1.01	2.77	5
1983.....	1.42	0.35	1.03	2.80	5
1982.....	1.41	0.35	1.06	2.83	5
1981.....	1.43	0.35	1.12	2.91	5
1980.....	1.43	0.33	1.24	3.00	4
1979.....	1.45	0.33	1.17	2.94	4
1978.....	1.38	0.31	1.19	2.88	4
1977.....	1.35	0.30	1.22	2.87	4
Indiana					
1997.....	1.14	0.19	0.59	1.92	9
1996.....	1.14	0.20	0.58	1.91	9
1995.....	1.13	0.21	0.59	1.92	8
1994.....	1.16	0.20	0.59	1.95	8
1993.....	1.15	0.19	0.64	1.99	8
1992.....	1.17	0.20	0.59	1.96	9
1991.....	1.22	0.19	0.60	2.01	9
1990.....	1.27	0.20	0.64	2.11	8
1989.....	1.21	0.19	0.63	2.04	8
1988.....	1.23	0.21	0.66	2.10	8
1987.....	1.24	0.22	0.67	2.13	8
1986.....	1.25	0.23	0.67	2.14	8
1985.....	1.25	0.22	0.72	2.19	8
1984.....	1.26	0.21	0.72	2.19	8
1983.....	1.27	0.19	0.73	2.19	8
1982.....	1.29	0.18	0.76	2.23	8
1981.....	1.29	0.18	0.78	2.25	8
1980.....	1.26	0.17	0.77	2.21	8
1979.....	1.23	0.15	0.79	2.18	9
1978.....	1.19	0.16	0.79	2.14	8
1977.....	1.14	0.14	0.77	2.05	9
Iowa					
1997.....	1.30	0.12	0.46	1.88	9
1996.....	1.29	0.13	0.44	1.86	9
1995.....	1.27	0.11	0.44	1.82	9
1994.....	1.31	0.10	0.45	1.86	9
1993.....	1.29	0.11	0.48	1.88	9
1992.....	1.32	0.13	0.46	1.92	9
1991.....	1.33	0.16	0.53	2.01	8
1990.....	1.35	0.18	0.54	2.07	9
1989.....	1.26	0.18	0.50	1.94	9
1988.....	1.28	0.20	0.52	1.99	9
1987.....	1.30	0.21	0.57	2.08	9
1986.....	1.32	0.19	0.53	2.04	9
1985.....	1.31	0.14	0.57	2.02	9
1984.....	1.36	0.12	0.61	2.09	9

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1983.....	1.38	0.13	0.64	2.15	8
1982.....	1.39	0.13	0.65	2.17	9
1981.....	1.44	0.13	0.69	2.27	8
1980.....	1.41	0.13	0.71	2.25	8
1979.....	1.40	0.11	0.71	2.22	8
1978.....	1.38	0.11	0.74	2.22	8
1977.....	1.33	0.10	0.74	2.17	8
Kansas					
1997.....	1.11	0.14	0.48	1.73	10
1996.....	1.07	0.14	0.50	1.72	10
1995.....	1.07	0.14	0.50	1.71	10
1994.....	1.13	0.13	0.49	1.75	10
1993.....	1.10	0.14	0.52	1.77	10
1992.....	1.10	0.14	0.55	1.79	10
1991.....	1.15	0.14	0.57	1.86	9
1990.....	1.13	0.13	0.53	1.79	10
1989.....	1.10	0.13	0.54	1.77	10
1988.....	1.11	0.21	0.56	1.88	9
1987.....	1.12	0.16	0.56	1.84	9
1986.....	1.12	0.17	0.59	1.88	9
1985.....	1.17	0.15	0.64	1.96	9
1984.....	1.18	0.14	0.63	1.95	9
1983.....	1.20	0.13	0.64	1.96	9
1982.....	1.22	0.13	0.67	2.02	9
1981.....	1.23	0.12	0.70	2.05	9
1980.....	1.23	0.11	0.62	1.96	9
1979.....	1.17	0.11	0.73	2.01	9
1978.....	1.14	0.12	0.64	1.89	10
1977.....	1.13	0.10	0.65	1.88	10
Kentucky					
1997.....	1.06	0.13	0.53	1.73	10
1996.....	1.06	0.13	0.54	1.73	10
1995.....	1.06	0.12	0.54	1.73	10
1994.....	1.08	0.11	0.55	1.74	10
1993.....	1.08	0.10	0.56	1.74	10
1992.....	1.04	0.11	0.56	1.72	10
1991.....	1.11	0.11	0.57	1.78	10
1990.....	1.13	0.11	0.60	1.84	10
1989.....	1.08	0.12	0.56	1.76	10
1988.....	1.08	0.12	0.59	1.79	10
1987.....	1.03	0.14	0.59	1.76	10
1986.....	1.09	0.13	0.62	1.84	10
1985.....	1.07	0.13	0.66	1.86	10
1984.....	1.05	0.12	0.68	1.85	10
1983.....	1.13	0.12	0.69	1.94	9
1982.....	1.14	0.12	0.73	1.99	9
1981.....	1.13	0.11	0.75	1.99	9
1980.....	1.08	0.10	0.74	1.91	10
1979.....	1.10	0.09	0.77	1.97	10
1978.....	1.07	0.09	0.77	1.93	10
1977.....	1.19	0.09	0.75	2.03	9
Louisiana					
1997.....	1.52	0.23	0.72	2.46	2
1996.....	1.51	0.22	0.73	2.47	2
1995.....	1.56	0.22	0.74	2.52	3
1994.....	1.46	0.21	0.73	2.41	3
1993.....	1.54	0.22	0.73	2.48	3
1992.....	1.56	0.23	0.74	2.53	3
1991.....	1.52	0.21	0.74	2.47	4
1990.....	1.55	0.23	0.78	2.56	4
1989.....	1.43	0.23	0.72	2.38	6
1988.....	1.44	0.24	0.69	2.37	7
1987.....	1.36	0.24	0.75	2.34	7
1986.....	1.39	0.26	0.78	2.42	7
1985.....	1.35	0.27	0.86	2.49	6
1984.....	1.40	0.29	0.94	2.63	6
1983.....	1.43	0.30	1.02	2.75	5
1982.....	1.49	0.30	1.00	2.78	5
1981.....	1.48	0.27	1.02	2.77	6

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1980.....	1.41	0.27	1.04	2.71	6
1979.....	1.36	0.26	1.08	2.70	6
1978.....	1.35	0.25	1.07	2.67	6
1977.....	1.30	0.25	1.03	2.57	6
Maine					
1997.....	1.16	0.33	0.71	2.20	6
1996.....	1.17	0.33	0.71	2.21	6
1995.....	1.17	0.26	0.72	2.15	6
1994.....	1.13	0.27	0.77	2.17	7
1993.....	1.15	0.29	0.79	2.22	6
1992.....	1.16	0.29	0.78	2.23	7
1991.....	1.19	0.30	0.77	2.25	6
1990.....	1.22	0.31	0.82	2.35	6
1989.....	1.25	0.34	0.85	2.44	5
1988.....	1.28	0.36	0.91	2.54	5
1987.....	1.26	0.38	0.91	2.55	5
1986.....	1.28	0.36	0.91	2.56	5
1985.....	1.29	0.33	0.94	2.56	6
1984.....	1.25	0.31	1.01	2.57	6
1983.....	1.32	0.29	1.03	2.63	6
1982.....	1.30	0.30	1.02	2.63	6
1981.....	1.24	0.28	1.05	2.57	7
1980.....	1.32	0.29	1.06	2.67	6
1979.....	1.30	0.27	1.08	2.65	6
1978.....	1.31	0.27	1.05	2.62	6
1977.....	1.37	0.23	1.04	2.64	6
Maryland					
1997.....	1.05	0.29	0.74	2.08	7
1996.....	1.05	0.29	0.75	2.09	7
1995.....	1.07	0.28	0.75	2.09	7
1994.....	1.09	0.28	0.78	2.15	7
1993.....	1.10	0.28	0.80	2.19	7
1992.....	1.11	0.29	0.86	2.26	6
1991.....	1.15	0.30	0.89	2.34	6
1990.....	1.22	0.33	0.96	2.51	5
1989.....	1.22	0.34	0.98	2.54	4
1988.....	1.26	0.36	1.01	2.62	4
1987.....	1.29	0.38	1.07	2.74	3
1986.....	1.29	0.39	1.08	2.75	4
1985.....	1.31	0.36	1.14	2.81	4
1984.....	1.31	0.36	1.17	2.84	4
1983.....	1.34	0.35	1.20	2.89	4
1982.....	1.27	0.32	1.17	2.77	5
1981.....	1.39	0.34	1.33	3.06	4
1980.....	1.42	0.33	1.35	3.09	4
1979.....	1.43	0.31	1.39	3.14	3
1978.....	1.41	0.31	1.38	3.09	3
1977.....	1.37	0.30	1.39	3.05	3
Massachusetts					
1997.....	1.15	0.50	0.77	2.43	3
1996.....	1.15	0.48	0.78	2.41	3
1995.....	1.14	0.45	0.79	2.37	3
1994.....	1.15	0.45	0.81	2.40	3
1993.....	1.15	0.44	0.80	2.39	4
1992.....	1.13	0.44	0.83	2.40	5
1991.....	1.19	0.43	0.87	2.49	3
1990.....	1.22	0.45	0.97	2.64	3
1989.....	1.26	0.47	1.02	2.75	3
1988.....	1.29	0.50	1.07	2.86	3
1987.....	1.29	0.51	1.12	2.93	3
1986.....	1.31	0.53	1.12	2.96	3
1985.....	1.30	0.51	1.21	3.01	3
1984.....	1.30	0.51	1.24	3.04	3
1983.....	1.36	0.50	1.21	3.07	3
1982.....	1.35	0.49	1.22	3.07	3
1981.....	1.44	0.49	1.24	3.17	3
1980.....	1.47	0.45	1.27	3.19	3
1979.....	1.39	0.42	1.23	3.04	4
1978.....	1.37	0.40	1.25	3.02	4

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1977 .....	1.34	0.37	1.24	2.95	3
Michigan					
1997 .....	1.16	0.22	0.66	2.05	7
1996 .....	1.22	0.22	0.68	2.12	7
1995 .....	1.22	0.21	0.68	2.11	7
1994 .....	1.24	0.21	0.68	2.13	7
1993 .....	1.27	0.21	0.73	2.20	7
1992 .....	1.26	0.22	0.74	2.22	7
1991 .....	1.31	0.22	0.75	2.27	6
1990 .....	1.34	0.28	0.81	2.42	6
1989 .....	1.29	0.30	0.80	2.38	6
1988 .....	1.31	0.32	0.84	2.47	6
1987 .....	1.32	0.33	0.85	2.50	6
1986 .....	1.33	0.33	0.90	2.56	5
1985 .....	1.30	0.32	0.95	2.58	6
1984 .....	1.32	0.31	0.97	2.60	6
1983 .....	1.35	0.28	0.97	2.60	6
1982 .....	1.35	0.39	0.98	2.72	6
1981 .....	1.34	0.29	1.00	2.63	6
1980 .....	1.34	0.28	1.03	2.65	6
1979 .....	1.37	0.25	1.03	2.65	6
1978 .....	1.43	0.25	1.05	2.74	5
1977 .....	1.45	0.24	1.02	2.71	5
Minnesota					
1997 .....	1.25	0.27	0.85	2.37	3
1996 .....	1.27	0.26	0.88	2.41	3
1995 .....	1.25	0.26	0.83	2.35	4
1994 .....	1.28	0.25	0.84	2.38	4
1993 .....	1.25	0.25	0.85	2.35	5
1992 .....	1.26	0.25	0.86	2.37	5
1991 .....	1.30	0.24	0.82	2.35	6
1990 .....	1.33	0.27	0.96	2.56	5
1989 .....	1.28	0.27	0.88	2.43	5
1988 .....	1.30	0.30	0.89	2.49	5
1987 .....	1.31	0.32	0.94	2.56	5
1986 .....	1.30	0.33	0.92	2.56	6
1985 .....	1.31	0.31	1.06	2.68	5
1984 .....	1.34	0.28	1.07	2.68	5
1983 .....	1.37	0.27	1.10	2.74	6
1982 .....	1.36	0.27	1.11	2.75	6
1981 .....	1.39	0.27	1.18	2.83	5
1980 .....	1.40	0.26	1.20	2.85	5
1979 .....	1.35	0.24	1.16	2.75	5
1978 .....	1.31	0.23	1.15	2.69	5
1977 .....	1.30	0.20	1.15	2.65	5
Mississippi					
1997 .....	1.39	0.09	0.62	2.10	7
1996 .....	1.39	0.09	0.62	2.10	7
1995 .....	1.37	0.09	0.62	2.08	7
1994 .....	1.29	0.08	0.64	2.01	7
1993 .....	1.38	0.10	0.63	2.12	7
1992 .....	1.36	0.09	0.64	2.09	8
1991 .....	1.33	0.09	0.64	2.06	8
1990 .....	1.35	0.09	0.66	2.10	8
1989 .....	1.26	0.09	0.65	2.00	9
1988 .....	1.28	0.09	0.66	2.03	9
1987 .....	1.26	0.09	0.66	2.01	9
1986 .....	1.26	0.10	0.68	2.04	9
1985 .....	1.21	0.10	0.73	2.04	9
1984 .....	1.19	0.11	0.77	2.06	9
1983 .....	1.19	0.11	0.79	2.09	9
1982 .....	1.19	0.11	0.82	2.11	9
1981 .....	1.19	0.11	0.84	2.14	9
1980 .....	1.13	0.10	0.86	2.09	9
1979 .....	1.15	0.10	0.84	2.09	9
1978 .....	1.16	0.10	0.91	2.18	8
1977 .....	1.08	0.11	0.86	2.05	8

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Missouri					
1997.....	1.32	0.22	0.64	2.18	6
1996.....	1.32	0.22	0.58	2.12	7
1995.....	1.33	0.21	0.63	2.16	6
1994.....	1.37	0.20	0.67	2.24	6
1993.....	1.34	0.20	0.67	2.22	6
1992.....	1.34	0.22	0.69	2.25	6
1991.....	1.35	0.22	0.64	2.21	7
1990.....	1.38	0.22	0.70	2.30	7
1989.....	1.33	0.22	0.69	2.24	7
1988.....	1.33	0.25	0.69	2.28	7
1987.....	1.36	0.27	0.72	2.35	7
1986.....	1.36	0.28	0.72	2.36	7
1985.....	1.33	0.26	0.76	2.36	7
1984.....	1.34	0.25	0.68	2.27	8
1983.....	1.37	0.22	0.78	2.37	8
1982.....	1.38	0.21	0.79	2.38	7
1981.....	1.40	0.21	0.83	2.45	7
1980.....	1.39	0.20	0.84	2.44	7
1979.....	1.37	0.20	0.86	2.43	7
1978.....	1.31	0.20	0.89	2.40	7
1977.....	1.23	0.19	0.83	2.25	8
Montana					
1997.....	1.51	0.29	0.64	2.44	3
1996.....	1.50	0.27	0.64	2.41	3
1995.....	1.50	0.27	0.79	2.55	2
1994.....	1.58	0.25	0.70	2.53	2
1993.....	1.50	0.25	0.73	2.48	3
1992.....	1.59	0.26	0.75	2.60	2
1991.....	1.61	0.28	0.76	2.65	3
1990.....	1.61	0.29	0.77	2.67	3
1989.....	1.56	0.29	0.72	2.57	4
1988.....	1.59	0.32	0.76	2.66	4
1987.....	1.57	0.33	0.77	2.67	4
1986.....	1.58	0.34	0.81	2.73	4
1985.....	1.60	0.33	0.88	2.81	4
1984.....	1.70	0.32	0.93	2.95	3
1983.....	1.79	0.32	0.99	3.09	3
1982.....	1.82	0.32	1.02	3.17	3
1981.....	1.90	0.33	1.05	3.28	3
1980.....	1.82	0.35	1.04	3.21	3
1979.....	1.83	0.41	1.05	3.29	3
1978.....	1.82	0.20	1.07	3.10	3
1977.....	1.83	0.20	1.10	3.12	3
Nebraska					
1997.....	1.37	0.18	0.58	2.13	7
1996.....	1.37	0.19	0.58	2.13	7
1995.....	1.36	0.19	0.58	2.13	7
1994.....	1.41	0.18	0.58	2.17	6
1993.....	1.38	0.18	0.60	2.15	7
1992.....	1.39	0.18	0.62	2.18	7
1991.....	1.40	0.18	0.61	2.20	7
1990.....	1.42	0.20	0.64	2.26	7
1989.....	1.37	0.19	0.62	2.18	7
1988.....	1.37	0.22	0.65	2.23	7
1987.....	1.40	0.22	0.65	2.27	7
1986.....	1.38	0.23	0.67	2.28	7
1985.....	1.40	0.22	0.75	2.37	7
1984.....	1.44	0.20	0.76	2.41	7
1983.....	1.49	0.21	0.79	2.49	7
1982.....	1.50	0.28	0.58	2.37	7
1981.....	1.57	0.20	0.88	2.66	6
1980.....	1.56	0.19	0.89	2.64	6
1979.....	1.50	0.18	0.88	2.57	7
1978.....	1.47	0.18	0.89	2.54	7
1977.....	1.45	0.17	0.91	2.53	6
Nevada					
1997.....	1.96	0.62	1.38	3.96	1
1996.....	2.00	0.61	1.46	4.07	1

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1995.....	1.94	0.60	1.45	4.00	1
1994.....	2.00	0.59	1.56	4.15	1
1993.....	2.00	0.59	1.58	4.18	1
1992.....	2.05	0.63	1.64	4.32	1
1991.....	2.07	0.63	1.65	4.36	1
1990.....	2.18	0.70	1.93	4.81	1
1989.....	2.18	0.73	1.92	4.83	1
1988.....	2.13	0.78	2.00	4.91	1
1987.....	2.05	0.84	2.09	4.99	1
1986.....	2.07	0.88	2.11	5.05	1
1985.....	1.96	0.84	2.18	4.99	1
1984.....	2.01	0.82	2.36	5.19	1
1983.....	1.98	0.79	2.45	5.22	1
1982.....	1.99	0.77	2.50	5.25	1
1981.....	2.08	0.80	2.71	5.59	1
1980.....	2.09	0.79	2.94	5.82	1
1979.....	2.28	0.88	3.28	6.44	1
1978.....	2.20	0.85	3.65	6.69	1
1977.....	2.15	0.83	3.85	6.84	1
New Hampshire					
1997.....	1.75	0.55	1.78	4.08	1
1996.....	1.74	0.55	1.86	4.16	1
1995.....	1.75	0.51	1.87	4.13	1
1994.....	1.75	0.48	1.90	4.14	1
1993.....	1.83	0.54	2.02	4.39	1
1992.....	1.81	0.52	1.96	4.28	1
1991.....	1.86	0.49	1.97	4.31	1
1990.....	1.85	0.49	1.98	4.32	1
1989.....	1.87	0.50	1.99	4.37	1
1988.....	1.91	0.49	1.94	4.33	1
1987.....	1.93	0.50	1.98	4.41	1
1986.....	1.93	0.52	2.06	4.51	1
1985.....	1.99	0.53	2.21	4.73	1
1984.....	1.99	0.59	2.33	4.91	1
1983.....	2.17	0.56	2.35	5.08	1
1982.....	1.89	0.58	2.34	4.81	1
1981.....	1.89	0.59	2.44	4.92	1
1980.....	2.21	0.69	2.86	5.76	1
1979.....	1.98	0.62	2.61	5.20	1
1978.....	1.99	0.54	2.94	5.46	1
1977.....	1.89	0.50	2.93	5.32	1
New Jersey					
1997.....	1.00	0.43	0.76	2.19	6
1996.....	1.02	0.45	0.78	2.25	5
1995.....	1.05	0.44	0.77	2.25	5
1994.....	1.06	0.44	0.80	2.30	5
1993.....	1.08	0.43	0.80	2.31	5
1992.....	1.08	0.44	0.84	2.35	5
1991.....	1.10	0.43	0.82	2.35	5
1990.....	1.16	0.49	0.95	2.59	4
1989.....	1.13	0.50	0.96	2.59	3
1988.....	1.15	0.51	0.93	2.58	4
1987.....	1.18	0.54	1.01	2.72	4
1986.....	1.18	0.56	1.03	2.77	4
1985.....	1.18	0.55	1.08	2.81	4
1984.....	1.19	0.55	1.10	2.83	4
1983.....	1.21	0.52	1.13	2.86	4
1982.....	1.22	0.52	1.13	2.87	4
1981.....	1.22	0.51	1.15	2.87	5
1980.....	1.23	0.47	1.13	2.83	5
1979.....	1.18	0.43	1.10	2.71	6
1978.....	1.17	0.42	1.10	2.69	6
1977.....	1.16	0.40	1.13	2.69	5
New Mexico					
1997.....	1.54	0.24	0.59	2.37	4
1996.....	1.58	0.23	0.60	2.41	3
1995.....	1.59	0.23	0.60	2.43	3
1994.....	1.50	0.19	0.61	2.30	5
1993.....	1.55	0.23	0.64	2.43	3

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1992.....	1.57	0.25	0.67	2.49	4
1991.....	1.64	0.26	0.65	2.56	3
1990.....	1.69	0.28	0.68	2.65	3
1989.....	1.64	0.29	0.65	2.58	4
1988.....	1.63	0.33	0.67	2.64	4
1987.....	1.63	0.35	0.67	2.65	4
1986.....	1.64	0.35	0.70	2.70	4
1985.....	1.70	0.36	0.77	2.83	4
1984.....	1.71	0.28	0.76	2.75	5
1983.....	1.72	0.31	0.98	3.00	4
1982.....	1.72	0.34	0.94	3.00	4
1981.....	1.74	0.32	0.95	3.01	4
1980.....	1.66	0.32	1.00	2.99	4
1979.....	1.71	0.30	1.01	3.02	4
1978.....	1.68	0.32	0.98	2.99	4
1977.....	1.65	0.32	0.96	2.93	4
New York					
1997.....	0.97	0.38	0.58	1.93	8
1996.....	0.99	0.37	0.58	1.94	8
1995.....	1.00	0.39	0.57	1.96	8
1994.....	1.00	0.35	0.61	1.96	8
1993.....	1.01	0.36	0.63	2.00	8
1992.....	1.05	0.37	0.68	2.11	8
1991.....	1.09	0.37	0.69	2.15	7
1990.....	1.13	0.41	0.76	2.31	7
1989.....	1.12	0.42	0.82	2.36	7
1988.....	1.15	0.45	0.87	2.47	6
1987.....	1.15	0.48	0.90	2.53	5
1986.....	1.13	0.50	0.92	2.55	6
1985.....	1.14	0.49	0.98	2.62	5
1984.....	1.15	0.49	1.03	2.67	5
1983.....	1.23	0.49	1.05	2.77	5
1982.....	1.26	0.48	1.10	2.84	5
1981.....	1.25	0.46	1.12	2.83	5
1980.....	1.28	0.46	1.18	2.91	5
1979.....	1.21	0.44	1.17	2.82	5
1978.....	1.18	0.42	1.17	2.77	5
1977.....	1.18	0.38	1.17	2.74	5
North Carolina					
1997.....	1.20	0.24	0.53	1.97	8
1996.....	1.18	0.24	0.54	1.96	8
1995.....	1.15	0.23	0.54	1.91	8
1994.....	1.16	0.22	0.56	1.94	8
1993.....	1.16	0.22	0.57	1.96	8
1992.....	1.16	0.23	0.60	1.98	8
1991.....	1.12	0.24	0.61	1.97	9
1990.....	1.16	0.27	0.65	2.09	9
1989.....	1.13	0.27	0.66	2.06	8
1988.....	1.12	0.28	0.68	2.09	8
1987.....	1.11	0.28	0.71	2.10	8
1986.....	1.12	0.30	0.74	2.15	8
1985.....	1.09	0.27	0.76	2.13	8
1984.....	1.11	0.24	0.78	2.13	8
1983.....	1.10	0.22	0.80	2.12	9
1982.....	1.07	0.21	0.85	2.13	9
1981.....	1.10	0.21	0.86	2.17	9
1980.....	1.11	0.20	0.86	2.17	9
1979.....	1.08	0.22	0.88	2.18	8
1978.....	1.06	0.20	0.86	2.12	9
1977.....	1.01	0.20	0.84	2.05	8
North Dakota					
1997.....	1.42	0.13	0.78	2.33	4
1996.....	1.49	0.13	0.78	2.40	3
1995.....	1.40	0.15	0.77	2.31	4
1994.....	1.40	0.15	0.79	2.35	4
1993.....	1.38	0.16	0.84	2.38	4
1992.....	1.39	0.15	0.86	2.41	5
1991.....	1.43	0.16	0.86	2.45	4
1990.....	1.47	0.17	0.93	2.58	4

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1989.....	1.38	0.17	0.84	2.38	6
1988.....	1.38	0.19	0.86	2.43	6
1987.....	1.34	0.20	0.87	2.42	6
1986.....	1.32	0.22	0.86	2.40	7
1985.....	1.33	0.19	0.96	2.48	7
1984.....	1.40	0.17	0.98	2.55	6
1983.....	1.48	0.17	1.05	2.71	6
1982.....	1.52	0.18	1.09	2.79	5
1981.....	1.53	0.18	1.14	2.85	5
1980.....	1.53	0.17	1.14	2.83	5
1979.....	1.45	0.16	1.10	2.71	6
1978.....	1.45	0.16	1.15	2.76	5
1977.....	1.35	0.15	1.12	2.62	6
Ohio					
1997.....	1.28	0.18	0.46	1.92	8
1996.....	1.31	0.18	0.46	1.94	8
1995.....	1.28	0.17	0.46	1.91	9
1994.....	1.31	0.16	0.38	1.85	9
1993.....	1.30	0.16	0.50	1.95	9
1992.....	1.32	0.17	0.50	1.98	8
1991.....	1.33	0.19	0.51	2.03	8
1990.....	1.35	0.22	0.53	2.09	8
1989.....	1.35	0.22	0.50	2.07	8
1988.....	1.34	0.24	0.54	2.11	8
1987.....	1.35	0.24	0.59	2.17	8
1986.....	1.32	0.25	0.60	2.17	8
1985.....	1.37	0.25	0.59	2.20	8
1984.....	1.41	0.25	0.61	2.26	8
1983.....	1.36	0.22	0.65	2.22	8
1982.....	1.40	0.22	0.66	2.28	8
1981.....	1.35	0.22	0.68	2.25	8
1980.....	1.39	0.22	0.72	2.33	8
1979.....	1.36	0.20	0.71	2.26	8
1978.....	1.19	0.20	0.70	2.09	9
1977.....	1.17	0.18	0.70	2.04	9
Oklahoma					
1997.....	1.11	0.12	0.44	1.67	10
1996.....	1.11	0.14	0.45	1.70	10
1995.....	1.11	0.13	0.50	1.74	10
1994.....	1.16	0.13	0.51	1.80	9
1993.....	1.12	0.11	0.48	1.71	10
1992.....	1.14	0.13	0.55	1.82	9
1991.....	1.09	0.13	0.54	1.77	10
1990.....	1.12	0.14	0.56	1.81	10
1989.....	1.05	0.13	0.53	1.70	10
1988.....	1.05	0.14	0.50	1.69	10
1987.....	1.04	0.15	0.57	1.76	10
1986.....	1.04	0.15	0.61	1.80	10
1985.....	1.04	0.15	0.68	1.87	10
1984.....	1.01	0.16	0.74	1.91	9
1983.....	1.05	0.16	0.77	1.98	9
1982.....	1.17	0.16	0.83	2.17	8
1981.....	1.14	0.16	0.83	2.13	9
1980.....	1.08	0.16	0.71	1.95	9
1979.....	1.05	0.13	0.80	1.98	9
1978.....	1.08	0.14	0.82	2.04	9
1977.....	1.07	0.14	0.78	1.98	9
Oregon					
1997.....	1.21	0.45	0.61	2.27	5
1996.....	1.24	0.44	0.61	2.30	5
1995.....	1.23	0.42	0.60	2.25	5
1994.....	1.24	0.37	0.63	2.24	6
1993.....	1.25	0.43	0.65	2.33	5
1992.....	1.30	0.46	0.67	2.43	4
1991.....	1.28	0.44	0.67	2.39	5
1990.....	1.32	0.47	0.73	2.52	5
1989.....	1.26	0.46	0.69	2.41	6
1988.....	1.27	0.51	0.71	2.48	5
1987.....	1.26	0.53	0.72	2.50	6

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1986.....	1.26	0.54	0.73	2.54	6
1985.....	1.25	0.55	0.77	2.57	6
1984.....	1.28	0.53	0.82	2.63	6
1983.....	1.31	0.53	0.85	2.69	6
1982.....	1.33	0.53	0.88	2.74	6
1981.....	1.38	0.50	0.92	2.80	6
1980.....	1.37	0.51	0.94	2.82	5
1979.....	1.39	0.47	0.96	2.82	5
1978.....	1.34	0.47	0.98	2.79	5
1977.....	1.33	0.46	0.96	2.74	5
Pennsylvania					
1997.....	1.22	0.20	0.45	1.87	9
1996.....	1.24	0.19	0.45	1.88	9
1995.....	1.21	0.16	0.45	1.83	9
1994.....	1.29	0.18	0.47	1.94	8
1993.....	1.32	0.17	0.48	1.97	8
1992.....	1.30	0.18	0.51	1.99	8
1991.....	1.36	0.17	0.52	2.06	8
1990.....	1.42	0.18	0.55	2.16	8
1989.....	1.36	0.18	0.56	2.10	7
1988.....	1.39	0.19	0.53	2.11	8
1987.....	1.38	0.20	0.61	2.20	8
1986.....	1.38	0.21	0.64	2.23	8
1985.....	1.37	0.21	0.65	2.22	8
1984.....	1.37	0.21	0.66	2.25	8
1983.....	1.41	0.22	0.67	2.29	8
1982.....	1.44	0.23	0.70	2.36	8
1981.....	1.42	0.23	0.72	2.37	8
1980.....	1.45	0.22	0.71	2.39	7
1979.....	1.42	0.22	0.73	2.37	8
1978.....	1.36	0.21	0.74	2.32	8
1977.....	1.35	0.20	0.74	2.29	8
Rhode Island					
1997.....	1.26	0.46	0.66	2.38	3
1996.....	1.20	0.44	0.68	2.31	5
1995.....	1.22	0.40	0.62	2.24	5
1994.....	1.26	0.39	0.67	2.33	4
1993.....	1.24	0.37	0.70	2.31	5
1992.....	1.26	0.40	0.71	2.36	5
1991.....	1.33	0.38	0.72	2.43	4
1990.....	1.32	0.44	0.79	2.55	5
1989.....	1.37	0.46	0.87	2.69	3
1988.....	1.39	0.49	0.97	2.85	3
1987.....	1.40	0.51	0.94	2.85	3
1986.....	1.41	0.53	0.93	2.86	3
1985.....	1.40	0.51	1.03	2.94	3
1984.....	1.37	0.52	1.03	2.92	3
1983.....	1.48	0.50	1.06	3.04	3
1982.....	1.34	0.55	1.04	2.93	4
1981.....	1.36	0.52	1.04	2.92	4
1980.....	1.46	0.53	1.14	3.14	3
1979.....	1.46	0.50	1.11	3.07	3
1978.....	1.41	0.50	1.16	3.07	3
1977.....	1.39	0.43	1.12	2.93	4
South Carolina					
1997.....	1.43	0.19	0.73	2.35	4
1996.....	1.42	0.22	0.72	2.36	4
1995.....	1.40	0.18	0.68	2.27	5
1994.....	1.40	0.17	0.75	2.31	5
1993.....	1.37	0.20	0.75	2.32	5
1992.....	1.35	0.20	0.79	2.34	6
1991.....	1.35	0.23	0.84	2.42	5
1990.....	1.45	0.26	0.92	2.63	4
1989.....	1.37	0.24	0.86	2.47	5
1988.....	1.37	0.26	0.89	2.51	5
1987.....	1.34	0.27	0.88	2.49	6
1986.....	1.30	0.27	0.92	2.50	6
1985.....	1.26	0.25	0.99	2.49	6
1984.....	1.26	0.24	1.00	2.50	7

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1983.....	1.26	0.20	1.01	2.47	7
1982.....	1.24	0.20	1.00	2.44	7
1981.....	1.25	0.19	1.05	2.49	7
1980.....	1.22	0.18	1.06	2.46	7
1979.....	1.25	0.17	1.18	2.60	7
1978.....	1.20	0.17	1.21	2.59	7
1977.....	1.17	0.17	1.14	2.49	7
South Dakota					
1997.....	1.36	0.13	0.69	2.18	7
1996.....	1.38	0.13	0.69	2.21	6
1995.....	1.36	0.12	0.74	2.22	6
1994.....	1.41	0.13	0.74	2.28	5
1993.....	1.36	0.13	0.74	2.23	6
1992.....	1.38	0.15	0.74	2.27	6
1991.....	1.36	0.15	0.76	2.28	6
1990.....	1.37	0.18	0.80	2.35	6
1989.....	1.25	0.15	0.70	2.09	8
1988.....	1.21	0.16	0.76	2.13	8
1987.....	1.24	0.19	0.79	2.22	8
1986.....	1.22	0.19	0.81	2.23	8
1985.....	1.22	0.18	0.94	2.34	8
1984.....	1.27	0.17	0.89	2.33	7
1983.....	1.30	0.17	0.95	2.43	7
1982.....	1.29	0.18	0.98	2.45	7
1981.....	1.32	0.19	1.05	2.56	7
1980.....	1.30	0.18	1.07	2.56	7
1979.....	1.23	0.17	1.04	2.44	7
1978.....	1.19	0.17	1.05	2.42	7
1977.....	1.15	0.17	1.06	2.38	7
Tennessee					
1997.....	1.19	0.16	0.51	1.86	9
1996.....	1.20	0.16	0.52	1.89	9
1995.....	1.19	0.19	0.53	1.90	9
1994.....	1.20	0.15	0.54	1.88	9
1993.....	1.21	0.14	0.54	1.89	9
1992.....	1.21	0.14	0.56	1.91	9
1991.....	1.19	0.13	0.55	1.87	9
1990.....	1.22	0.15	0.61	1.97	9
1989.....	1.18	0.14	0.59	1.90	9
1988.....	1.20	0.14	0.60	1.95	9
1987.....	1.17	0.15	0.62	1.94	9
1986.....	1.17	0.16	0.63	1.96	9
1985.....	1.11	0.16	0.67	1.94	9
1984.....	1.11	0.15	0.70	1.95	9
1983.....	1.10	0.14	0.69	1.93	10
1982.....	1.13	0.14	0.70	1.96	10
1981.....	1.14	0.13	0.72	1.98	10
1980.....	1.10	0.12	0.69	1.92	9
1979.....	1.14	0.11	0.73	1.98	9
1978.....	1.16	0.11	0.72	1.99	9
1977.....	1.10	0.10	0.71	1.91	10
Texas					
1997.....	1.57	0.20	0.48	2.25	5
1996.....	1.57	0.22	0.49	2.28	5
1995.....	1.57	0.19	0.49	2.25	5
1994.....	1.62	0.20	0.52	2.34	4
1993.....	1.62	0.20	0.54	2.35	4
1992.....	1.66	0.24	0.55	2.46	4
1991.....	1.60	0.25	0.56	2.40	5
1990.....	1.64	0.26	0.58	2.48	6
1989.....	1.62	0.26	0.58	2.46	5
1988.....	1.61	0.28	0.59	2.47	6
1987.....	1.61	0.29	0.61	2.51	6
1986.....	1.67	0.31	0.65	2.63	5
1985.....	1.68	0.30	0.73	2.70	5
1984.....	1.74	0.28	0.79	2.82	4
1983.....	1.73	0.27	0.79	2.79	5
1982.....	1.83	0.18	0.84	2.85	4
1981.....	1.84	0.24	0.85	2.93	4

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1980.....	1.77	0.22	0.81	2.80	6
1979.....	1.76	0.14	0.87	2.77	5
1978.....	1.70	0.14	0.84	2.68	6
1977.....	1.63	0.14	0.81	2.58	6
Utah					
1997.....	0.78	0.11	0.40	1.29	10
1996.....	0.80	0.10	0.39	1.29	10
1995.....	0.75	0.10	0.39	1.24	10
1994.....	0.79	0.09	0.40	1.28	10
1993.....	0.80	0.11	0.40	1.32	10
1992.....	0.81	0.12	0.43	1.36	10
1991.....	0.81	0.12	0.43	1.36	10
1990.....	0.81	0.12	0.47	1.40	10
1989.....	0.82	0.13	0.47	1.42	10
1988.....	0.83	0.14	0.49	1.45	10
1987.....	0.84	0.15	0.50	1.49	10
1986.....	0.89	0.17	0.52	1.58	10
1985.....	0.90	0.15	0.53	1.58	10
1984.....	0.88	0.14	0.52	1.53	10
1983.....	0.88	0.14	0.50	1.52	10
1982.....	1.01	0.15	0.55	1.71	10
1981.....	1.01	0.15	0.58	1.74	10
1980.....	0.96	0.14	0.60	1.71	10
1979.....	0.97	0.16	0.62	1.75	10
1978.....	0.96	0.15	0.61	1.72	10
1977.....	0.97	0.14	0.59	1.70	10
Vermont					
1997.....	1.24	0.47	0.63	2.35	4
1996.....	1.29	0.46	0.64	2.39	4
1995.....	1.27	0.41	0.66	2.34	4
1994.....	1.33	0.42	0.74	2.49	3
1993.....	1.33	0.44	0.74	2.51	3
1992.....	1.34	0.44	0.78	2.56	3
1991.....	1.40	0.47	0.82	2.68	2
1990.....	1.47	0.48	0.86	2.81	2
1989.....	1.45	0.51	0.88	2.84	2
1988.....	1.51	0.56	0.93	3.00	2
1987.....	1.56	0.58	0.98	3.11	1
1986.....	1.55	0.59	1.04	3.17	1
1985.....	1.49	0.55	1.09	3.13	2
1984.....	1.48	0.49	1.15	3.12	2
1983.....	1.52	0.50	1.19	3.21	2
1982.....	1.49	0.50	1.25	3.24	2
1981.....	1.49	0.50	1.33	3.32	2
1980.....	1.43	0.48	1.39	3.30	2
1979.....	1.57	0.47	1.50	3.54	1
1978.....	1.53	0.47	1.59	3.59	1
1977.....	1.42	0.44	1.58	3.44	1
Virginia					
1997.....	1.14	0.30	0.48	1.92	8
1996.....	1.14	0.30	0.49	1.93	8
1995.....	1.16	0.29	0.49	1.94	8
1994.....	1.21	0.27	0.52	2.00	8
1993.....	1.24	0.27	0.54	2.06	8
1992.....	1.26	0.28	0.57	2.11	8
1991.....	1.20	0.28	0.58	2.07	8
1990.....	1.26	0.30	0.63	2.19	7
1989.....	1.23	0.31	0.65	2.19	7
1988.....	1.31	0.25	0.68	2.24	7
1987.....	1.40	0.26	0.71	2.36	7
1986.....	1.52	0.27	0.74	2.53	6
1985.....	1.46	0.30	0.79	2.55	6
1984.....	1.46	0.29	0.80	2.55	6
1983.....	1.47	0.27	0.82	2.57	6
1982.....	1.45	0.27	0.86	2.59	6
1981.....	1.23	0.27	0.89	2.39	7
1980.....	1.23	0.25	0.91	2.39	7
1979.....	1.23	0.25	0.92	2.40	8
1978.....	1.22	0.21	0.90	2.33	8

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1977 .....	1.19	0.21	0.90	2.30	7
Washington					
1997 .....	1.13	0.43	0.63	2.19	6
1996 .....	1.13	0.40	0.63	2.17	6
1995 .....	1.15	0.40	0.63	2.18	6
1994 .....	1.19	0.40	0.66	2.24	5
1993 .....	1.19	0.39	0.70	2.28	6
1992 .....	1.26	0.46	0.73	2.45	4
1991 .....	1.23	0.43	0.73	2.40	5
1990 .....	1.28	0.46	0.76	2.50	5
1989 .....	1.24	0.47	0.75	2.45	5
1988 .....	1.22	0.50	0.77	2.49	5
1987 .....	1.23	0.56	0.79	2.58	5
1986 .....	1.23	0.61	0.82	2.65	5
1985 .....	1.22	0.59	0.87	2.68	5
1984 .....	1.24	0.57	0.91	2.71	5
1983 .....	1.29	0.54	0.94	2.76	5
1982 .....	1.33	0.53	0.99	2.85	4
1981 .....	1.38	0.54	1.05	2.97	4
1980 .....	1.52	0.52	1.08	3.12	3
1979 .....	1.41	0.48	1.10	2.99	4
1978 .....	1.39	0.48	1.09	2.96	4
1977 .....	1.36	0.45	1.08	2.89	4
West Virginia					
1997 .....	1.14	0.09	0.37	1.60	10
1996 .....	1.14	0.10	0.37	1.60	10
1995 .....	1.14	0.09	0.38	1.60	10
1994 .....	1.17	0.08	0.39	1.64	10
1993 .....	1.18	0.08	0.40	1.67	10
1992 .....	1.16	0.09	0.41	1.66	10
1991 .....	1.18	0.09	0.43	1.70	10
1990 .....	1.20	0.10	0.42	1.72	10
1989 .....	1.12	0.11	0.38	1.60	10
1988 .....	1.12	0.12	0.40	1.64	10
1987 .....	1.11	0.13	0.41	1.64	10
1986 .....	1.10	0.13	0.41	1.64	10
1985 .....	1.11	0.13	0.42	1.66	10
1984 .....	1.12	0.12	0.44	1.68	10
1983 .....	1.13	0.13	0.48	1.74	10
1982 .....	1.11	0.14	0.55	1.80	10
1981 .....	1.06	0.14	0.66	1.85	10
1980 .....	1.00	0.09	0.72	1.82	10
1979 .....	0.97	0.09	0.77	1.83	10
1978 .....	0.96	0.09	0.79	1.84	10
1977 .....	0.98	0.09	0.78	1.85	10
Wisconsin					
1997 .....	1.60	0.26	0.91	2.77	1
1996 .....	1.55	0.25	0.86	2.65	2
1995 .....	1.58	0.23	0.88	2.69	1
1994 .....	1.60	0.23	0.92	2.75	2
1993 .....	1.60	0.23	0.90	2.73	1
1992 .....	1.60	0.25	0.91	2.76	2
1991 .....	1.65	0.27	0.84	2.77	1
1990 .....	1.74	0.31	1.03	3.08	1
1989 .....	1.71	0.31	0.95	2.96	1
1988 .....	1.75	0.33	0.95	3.02	2
1987 .....	1.78	0.36	0.97	3.11	2
1986 .....	1.87	0.34	0.95	3.16	2
1985 .....	1.82	0.32	1.05	3.19	1
1984 .....	1.86	0.30	1.03	3.19	2
1983 .....	1.93	0.33	1.07	3.33	2
1982 .....	1.93	0.30	1.04	3.27	2
1981 .....	1.95	0.31	1.20	3.47	1
1980 .....	1.96	0.31	1.20	3.46	1
1979 .....	1.88	0.28	1.17	3.33	3
1978 .....	1.80	0.28	1.18	3.25	2
1977 .....	1.78	0.27	1.26	3.31	2

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–97. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Wyoming					
1997 .....	1.39	0.17	0.82	2.38	3
1996 .....	1.39	0.17	0.81	2.37	4
1995 .....	1.34	0.19	0.81	2.33	4
1994 .....	1.44	0.18	0.84	2.46	3
1993 .....	1.41	0.19	0.87	2.46	3
1992 .....	1.45	0.20	0.92	2.58	3
1991 .....	1.44	0.20	0.90	2.56	3
1990 .....	1.48	0.22	0.93	2.63	4
1989 .....	1.35	0.22	0.82	2.38	6
1988 .....	1.39	0.23	0.84	2.46	6
1987 .....	1.46	0.24	0.86	2.56	5
1986 .....	1.46	0.26	0.92	2.64	5
1985 .....	1.56	0.25	1.03	2.84	3
1984 .....	1.58	0.22	1.05	2.86	4
1983 .....	1.66	0.22	1.09	2.98	4
1982 .....	1.80	0.24	1.21	3.25	2
1981 .....	1.91	0.24	1.27	3.42	2
1980 .....	1.85	0.24	1.32	3.42	2
1979 .....	1.86	0.22	1.30	3.38	2
1978 .....	1.82	0.22	1.36	3.41	2
1977 .....	1.79	0.21	1.32	3.31	2
Northeast region					
1997 .....	1.09	0.37	0.64	2.10	
1996 .....	1.10	0.36	0.65	2.11	
1995 .....	1.10	0.36	0.65	2.11	
1994 .....	1.12	0.34	0.68	2.14	
1993 .....	1.14	0.34	0.69	2.17	
1992 .....	1.15	0.35	0.72	2.22	
1991 .....	1.19	0.35	0.73	2.27	
1990 .....	1.24	0.38	0.81	2.42	
1989 .....	1.22	0.39	0.84	2.44	
1988 .....	1.25	0.40	0.86	2.52	
1987 .....	1.25	0.43	0.91	2.60	
1986 .....	1.25	0.44	0.93	2.62	
1985 .....	1.25	0.43	0.98	2.66	
1984 .....	1.25	0.43	1.01	2.70	
1983 .....	1.31	0.43	1.03	2.76	
1982 .....	1.31	0.43	1.05	2.79	
1981 .....	1.31	0.41	1.07	2.80	
1980 .....	1.34	0.40	1.10	2.84	
1979 .....	1.30	0.38	1.09	2.77	
1978 .....	1.26	0.36	1.10	2.73	
1977 .....	1.25	0.34	1.10	2.69	
Midwest region					
1997 .....	1.28	0.23	0.64	2.15	
1996 .....	1.29	0.23	0.63	2.15	
1995 .....	1.29	0.22	0.63	2.15	
1994 .....	1.32	0.22	0.63	2.17	
1993 .....	1.31	0.22	0.67	2.20	
1992 .....	1.32	0.23	0.68	2.22	
1991 .....	1.35	0.23	0.68	2.26	
1990 .....	1.38	0.26	0.74	2.38	
1989 .....	1.34	0.26	0.71	2.31	
1988 .....	1.36	0.28	0.74	2.38	
1987 .....	1.37	0.29	0.76	2.42	
1986 .....	1.37	0.30	0.78	2.44	
1985 .....	1.37	0.28	0.83	2.48	
1984 .....	1.39	0.27	0.84	2.50	
1983 .....	1.41	0.25	0.87	2.53	
1982 .....	1.42	0.27	0.88	2.56	
1981 .....	1.42	0.26	0.93	2.61	
1980 .....	1.42	0.24	0.96	2.63	
1979 .....	1.41	0.23	0.95	2.58	
1978 .....	1.35	0.22	0.96	2.53	
1977 .....	1.32	0.21	0.96	2.49	
South region					
1997 .....	1.31	0.24	0.61	2.16	
1996 .....	1.32	0.24	0.62	2.18	

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 3.** Per capita ethanol consumption for States, census regions, and the United States, 1977–95. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
1995.....	1.31	0.22	0.62	2.14	
1994.....	1.33	0.22	0.65	2.19	
1993.....	1.34	0.22	0.67	2.22	
1992.....	1.34	0.23	0.70	2.27	
1991.....	1.31	0.23	0.69	2.24	
1990.....	1.37	0.26	0.74	2.37	
1989.....	1.33	0.26	0.73	2.31	
1988.....	1.33	0.27	0.74	2.34	
1987.....	1.33	0.27	0.77	2.37	
1986.....	1.35	0.28	0.79	2.42	
1985.....	1.33	0.27	0.85	2.46	
1984.....	1.34	0.27	0.90	2.51	
1983.....	1.36	0.25	0.91	2.52	
1982.....	1.37	0.23	0.95	2.55	
1981.....	1.36	0.24	0.98	2.58	
1980.....	1.31	0.23	0.98	2.51	
1979.....	1.32	0.21	1.03	2.55	
1978.....	1.29	0.20	1.03	2.52	
1977.....	1.25	0.19	1.01	2.44	
West region					
1997.....	1.22	0.44	0.66	2.32	
1996.....	1.22	0.43	0.68	2.33	
1995.....	1.24	0.40	0.67	2.31	
1994.....	1.22	0.41	0.70	2.33	
1993.....	1.27	0.42	0.72	2.41	
1992.....	1.34	0.45	0.77	2.55	
1991.....	1.30	0.44	0.77	2.51	
1990.....	1.37	0.50	0.84	2.71	
1989.....	1.36	0.51	0.84	2.71	
1988.....	1.37	0.57	0.87	2.80	
1987.....	1.39	0.62	0.89	2.90	
1986.....	1.40	0.65	0.92	2.98	
1985.....	1.37	0.65	1.00	3.02	
1984.....	1.41	0.61	1.04	3.05	
1983.....	1.42	0.61	1.07	3.11	
1982.....	1.45	0.60	1.11	3.15	
1981.....	1.49	0.60	1.16	3.26	
1980.....	1.48	0.59	1.20	3.26	
1979.....	1.49	0.58	1.24	3.31	
1978.....	1.43	0.56	1.27	3.26	
1977.....	1.38	0.54	1.22	3.15	
U.S. total					
1997.....	1.24	0.31	0.63	2.18	
1996.....	1.25	0.30	0.64	2.19	
1995.....	1.25	0.29	0.64	2.17	
1994.....	1.26	0.29	0.66	2.21	
1993.....	1.28	0.29	0.68	2.25	
1992.....	1.29	0.30	0.71	2.31	
1991.....	1.29	0.30	0.71	2.30	
1990.....	1.34	0.33	0.78	2.45	
1989.....	1.31	0.34	0.77	2.42	
1988.....	1.33	0.36	0.79	2.48	
1987.....	1.34	0.38	0.82	2.54	
1986.....	1.34	0.39	0.84	2.58	
1985.....	1.33	0.38	0.90	2.62	
1984.....	1.35	0.37	0.94	2.65	
1983.....	1.37	0.36	0.96	2.69	
1982.....	1.38	0.36	0.98	2.72	
1981.....	1.39	0.35	1.02	2.76	
1980.....	1.38	0.34	1.04	2.76	
1979.....	1.37	0.32	1.06	2.75	
1978.....	1.33	0.31	1.07	2.71	
1977.....	1.29	0.29	1.06	2.64	

Decile values apply only to State-level data. Numbers may not sum due to rounding.

**Table 4.** Per drinker average ethanol consumption for selected States, 1986–97. [Based on estimates of abstention among population age 18 and older from the Behavioral Risk Factors Survey, CDC]

State	Per capita ethanol consumption	Percentage of abstainers for State	Average consumption per drinker
Alabama			
1997 .....	1.81	63.2	4.92
1996 .....	1.86	59.3	4.56
1995 .....	1.82	59.8	4.53
1994 .....	—	—	—
1993 .....	1.88	69.5	6.15
1992 .....	1.80	68.1	5.64
1991 .....	1.77	64.2	4.93
1990 .....	1.93	66.2	5.72
1989 .....	1.87	69.4	6.10
1988 .....	1.89	64.0	5.25
1987 .....	1.89	60.1	4.73
1986 .....	1.90	61.8	4.98
Alaska			
1997 .....	2.58	44.8	4.67
1996 .....	2.63	36.8	4.16
1995 .....	2.88	41.2	4.90
1994 .....	3.30	34.8	4.65
1993 .....	2.56	39.2	4.22
1992 .....	3.04	37.5	4.86
1991 .....	3.12	40.5	5.25
1990 .....	—	—	—
1989 .....	—	—	—
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
Arizona			
1997 .....	2.59	58.9	6.30
1996 .....	2.66	56.4	6.10
1995 .....	2.51	50.8	5.10
1994 .....	2.65	50.4	5.35
1993 .....	2.73	55.4	6.12
1992 .....	2.76	60.3	6.96
1991 .....	2.75	51.7	5.70
1990 .....	2.77	48.6	5.38
1989 .....	2.89	43.2	5.08
1988 .....	2.94	41.6	5.03
1987 .....	2.99	40.6	5.03
1986 .....	3.14	39.5	5.19
Arkansas			
1997 .....	1.77	69.4	5.78
1996 .....	—	—	—
1995 .....	1.73	67.4	5.30
1994 .....	—	—	—
1993 .....	1.82	62.5	4.84
1992 .....	—	—	—
1991 .....	1.82	61.5	4.73
1990 .....	—	—	—
1989 .....	—	—	—
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
California			
1997 .....	2.25	38.6	3.67
1996 .....	2.24	40.9	3.79
1995 .....	—	—	—
1994 .....	—	—	—
1993 .....	2.35	39.2	3.86
1992 .....	2.55	42.1	4.40
1991 .....	2.46	42.3	4.26
1990 .....	2.78	39.1	4.57
1989 .....	2.79	42.3	4.83
1988 .....	2.90	37.4	4.63
1987 .....	3.03	34.9	4.66
1986 .....	3.11	34.4	4.74
Colorado			
1997 .....	2.57	38.0	4.15
1996 .....	—	—	—
1995 .....	2.63	37.7	4.22
1994 .....	—	—	—
1993 .....	2.67	37.4	4.26

— State did not include pertinent Behavioral Risk Factors Survey item that year.

**Table 4.** Per drinker average ethanol consumption for selected States, 1986–97. [Based on estimates of abstention among population age 18 and older from the Behavioral Risk Factors Survey, CDC] (Continued)

State	Per capita ethanol consumption	Percentage of abstainers for State	Average consumption per drinker
1992 .....	2.53	36.2	3.97
1991 .....	2.63	38.3	4.26
1990 .....	2.39	37.2	3.81
1989 .....	—	—	—
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
Connecticut			
1997 .....	2.22	37.9	3.57
1996 .....	—	—	—
1995 .....	2.26	35.2	3.48
1994 .....	—	—	—
1993 .....	2.21	36.0	3.46
1992 .....	2.31	41.5	3.94
1991 .....	2.30	37.8	3.70
1990 .....	2.46	33.5	3.70
1989 .....	2.54	31.5	3.72
1988 .....	2.71	30.8	3.92
1987 .....	—	—	—
1986 .....	—	—	—
Delaware			
1997 .....	2.88	45.8	5.31
1996 .....	—	—	—
1995 .....	2.66	46.8	5.00
1994 .....	—	—	—
1993 .....	2.78	41.7	4.78
1992 .....	2.75	45.3	5.02
1991 .....	2.71	46.0	5.01
1990 .....	2.97	43.5	5.25
1989 .....	—	—	—
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
District of Columbia			
1997 .....	4.01	56.3	9.17
1996 .....	—	—	—
1995 .....	—	—	—
1994 .....	3.89	62.8	10.46
1993 .....	3.89	70.5	13.19
1992 .....	4.13	55.7	9.32
1991 .....	3.93	56.3	8.99
1990 .....	4.16	62.5	11.09
1989 .....	4.22	61.3	10.90
1988 .....	4.48	60.6	11.38
1987 .....	4.85	53.6	10.45
1986 .....	4.75	44.1	8.49
Florida			
1997 .....	2.62	45.2	4.78
1996 .....	—	—	—
1995 .....	2.58	45.2	4.70
1994 .....	—	—	—
1993 .....	2.73	43.9	4.86
1992 .....	2.79	48.4	5.41
1991 .....	2.71	46.7	5.08
1990 .....	2.97	50.1	5.94
1989 .....	2.90	45.5	5.32
1988 .....	2.92	42.5	5.07
1987 .....	2.95	41.2	5.02
1986 .....	2.96	39.8	4.92
Georgia			
1997 .....	2.20	55.4	4.93
1996 .....	—	—	—
1995 .....	2.16	59.7	5.37
1994 .....	—	—	—
1993 .....	2.23	59.9	5.55
1992 .....	2.24	67.5	6.90
1991 .....	2.18	65.0	6.22
1990 .....	2.32	63.7	6.40
1989 .....	2.37	61.9	6.22
1988 .....	2.40	43.7	4.26
1987 .....	2.49	57.4	5.85
1986 .....	2.43	56.0	5.53

— State did not include pertinent Behavioral Risk Factors Survey item that year.

**Table 4.** Per drinker average ethanol consumption for selected States, 1986–97. [Based on estimates of abstention among population age 18 and older from the Behavioral Risk Factors Survey, CDC] (Continued)

State	Per capita ethanol consumption	Percentage of abstainers for State	Average consumption per drinker
Hawaii			
1997 .....	2.35	48.9	4.60
1996 .....	—	—	—
1995 .....	2.36	58.3	5.65
1994 .....	—	—	—
1993 .....	2.53	50.8	5.14
1992 .....	2.63	50.0	5.27
1991 .....	2.68	50.0	5.36
1990 .....	2.86	50.8	5.81
1989 .....	2.76	47.1	5.21
1988 .....	2.86	45.8	5.28
1987 .....	2.73	41.0	4.63
1986 .....	2.88	41.6	4.94
Idaho			
1997 .....	2.03	52.4	4.26
1996 .....	2.00	51.2	4.10
1995 .....	2.00	52.4	4.20
1994 .....	2.14	50.8	4.36
1993 .....	2.12	50.6	4.30
1992 .....	2.22	55.5	4.98
1991 .....	2.20	55.9	4.98
1990 .....	2.27	54.1	4.95
1989 .....	2.09	52.6	4.42
1988 .....	2.18	52.1	4.56
1987 .....	2.26	46.8	4.25
1986 .....	2.33	46.4	4.35
Illinois			
1997 .....	2.32	45.3	4.24
1996 .....	2.35	42.2	4.07
1995 .....	2.35	48.1	4.52
1994 .....	—	—	—
1993 .....	2.41	46.0	4.46
1992 .....	2.45	49.5	4.85
1991 .....	2.49	52.6	5.26
1990 .....	2.63	47.7	5.03
1989 .....	2.56	46.3	4.77
1988 .....	2.64	40.5	4.44
1987 .....	2.66	40.1	4.44
1986 .....	2.68	44.5	4.82
Indiana			
1997 .....	1.92	51.5	3.96
1996 .....	—	—	—
1995 .....	1.92	53.4	4.13
1994 .....	—	—	—
1993 .....	1.99	51.3	4.09
1992 .....	1.96	53.9	4.25
1991 .....	2.01	52.8	4.25
1990 .....	2.11	53.5	4.54
1989 .....	2.04	53.5	4.39
1988 .....	2.10	48.3	4.07
1987 .....	2.13	49.2	4.19
1986 .....	2.14	46.9	4.03
Iowa			
1997 .....	1.88	46.1	3.49
1996 .....	—	—	—
1995 .....	1.82	42.9	3.19
1994 .....	—	—	—
1993 .....	1.88	48.7	3.66
1992 .....	1.92	52.5	4.04
1991 .....	2.01	48.4	3.91
1990 .....	2.07	48.1	3.99
1989 .....	1.94	46.0	3.60
1988 .....	1.99	46.1	3.70
1987 .....	—	—	—
1986 .....	—	—	—
Kansas			
1997 .....	1.73	58.7	4.19
1996 .....	—	—	—
1995 .....	1.71	50.6	3.47
1994 .....	1.75	55.5	3.94
1993 .....	1.77	55.9	4.00

— State did not include pertinent Behavioral Risk Factors Survey item that year.

**Table 4.** Per drinker average ethanol consumption for selected States, 1986–97. [Based on estimates of abstention among population age 18 and older from the Behavioral Risk Factors Survey, CDC] (Continued)

State	Per capita ethanol consumption	Percentage of abstainers for State	Average consumption per drinker
1992 .....	1.79	53.3	3.84
1991 .....	—	—	—
1990 .....	—	—	—
1989 .....	—	—	—
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
Kentucky			
1997 .....	1.73	66.3	5.12
1996 .....	1.73	67.3	5.30
1995 .....	1.73	65.5	5.00
1994 .....	—	—	—
1993 .....	1.74	68.0	5.44
1992 .....	1.72	68.8	5.51
1991 .....	1.78	65.8	5.22
1990 .....	1.84	66.1	5.43
1989 .....	1.76	65.4	5.08
1988 .....	1.79	62.8	4.82
1987 .....	1.76	63.5	4.82
1986 .....	1.84	59.3	4.53
Louisiana			
1997 .....	2.46	49.4	4.86
1996 .....	—	—	—
1995 .....	2.52	51.9	5.24
1994 .....	—	—	—
1993 .....	2.48	51.4	5.11
1992 .....	2.53	56.4	5.79
1991 .....	2.47	54.4	5.42
1990 .....	2.56	50.5	5.18
1989 .....	—	—	—
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
Maine			
1997 .....	2.20	44.6	3.97
1996 .....	—	—	—
1995 .....	2.15	50.3	4.33
1994 .....	—	—	—
1993 .....	2.22	48.6	4.31
1992 .....	2.23	50.2	4.47
1991 .....	2.25	48.7	4.40
1990 .....	2.35	48.9	4.60
1989 .....	2.44	50.2	4.90
1988 .....	2.54	45.3	4.64
1987 .....	2.55	44.5	4.59
1986 .....	—	—	—
Maryland			
1997 .....	2.08	55.6	4.68
1996 .....	—	—	—
1995 .....	2.09	55.2	4.67
1994 .....	—	—	—
1993 .....	2.19	53.1	4.66
1992 .....	2.26	50.7	4.58
1991 .....	2.34	47.0	4.41
1990 .....	2.51	46.6	4.70
1989 .....	2.54	46.0	4.71
1988 .....	2.62	44.5	4.72
1987 .....	2.74	39.0	4.49
1986 .....	—	—	—
Massachusetts			
1997 .....	2.43	35.2	3.75
1996 .....	—	—	—
1995 .....	2.37	33.1	3.54
1994 .....	—	—	—
1993 .....	2.39	30.5	3.44
1992 .....	2.40	30.2	3.43
1991 .....	2.49	34.4	3.80
1990 .....	2.64	34.0	4.00
1989 .....	2.75	32.1	4.05
1988 .....	2.86	35.9	4.46
1987 .....	2.93	31.1	4.25
1986 .....	2.96	27.5	4.08

— State did not include pertinent Behavioral Risk Factors Survey item that year.

**Table 4.** Per drinker average ethanol consumption for selected States, 1986–97. [Based on estimates of abstention among population age 18 and older from the Behavioral Risk Factors Survey, CDC] (Continued)

State	Per capita ethanol consumption	Percentage of abstainers for State	Average consumption per drinker
Michigan			
1997 .....	2.05	42.6	3.56
1996 .....	—	—	—
1995 .....	2.11	41.8	3.63
1994 .....	—	—	—
1993 .....	2.20	42.9	3.85
1992 .....	2.22	46.0	4.12
1991 .....	2.27	44.7	4.11
1990 .....	2.42	46.7	4.55
1989 .....	2.38	44.8	4.31
1988 .....	2.47	38.6	4.02
1987 .....	—	—	—
1986 .....	—	—	—
Minnesota			
1997 .....	2.37	46.5	4.44
1996 .....	2.41	43.1	4.23
1995 .....	2.35	40.6	3.95
1994 .....	2.38	33.7	3.59
1993 .....	2.35	36.8	3.71
1992 .....	2.37	36.2	3.71
1991 .....	2.35	36.7	3.72
1990 .....	2.56	36.9	4.06
1989 .....	2.43	38.4	3.95
1988 .....	2.49	34.6	3.81
1987 .....	2.56	32.8	3.81
1986 .....	2.56	31.0	3.70
Mississippi			
1997 .....	2.10	64.9	5.98
1996 .....	—	—	—
1995 .....	2.08	63.5	5.70
1994 .....	—	—	—
1993 .....	2.12	68.2	6.67
1992 .....	2.09	66.3	6.19
1991 .....	2.06	68.9	6.61
1990 .....	2.10	64.0	5.84
1989 .....	—	—	—
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
Missouri			
1997 .....	2.18	50.8	4.43
1996 .....	—	—	—
1995 .....	2.16	47.8	4.14
1994 .....	—	—	—
1993 .....	2.22	54.4	4.87
1992 .....	2.25	54.7	4.97
1991 .....	2.21	51.4	4.54
1990 .....	2.30	50.0	4.61
1989 .....	2.24	53.2	4.79
1988 .....	2.28	51.1	4.65
1987 .....	2.35	45.6	4.33
1986 .....	2.36	47.0	4.46
Montana			
1997 .....	2.44	42.8	4.27
1996 .....	—	—	—
1995 .....	2.55	44.2	4.56
1994 .....	—	—	—
1993 .....	2.48	43.8	4.41
1992 .....	2.60	44.3	4.67
1991 .....	2.65	45.6	4.86
1990 .....	2.67	45.8	4.93
1989 .....	2.57	41.9	4.42
1988 .....	2.66	39.4	4.39
1987 .....	2.67	38.6	4.34
1986 .....	2.73	34.6	4.17
Nebraska			
1997 .....	2.13	42.0	3.68
1996 .....	—	—	—
1995 .....	2.13	44.8	3.85
1994 .....	—	—	—
1993 .....	2.15	44.5	3.88

— State did not include pertinent Behavioral Risk Factors Survey item that year.

**Table 4.** Per drinker average ethanol consumption for selected States, 1986–97. [Based on estimates of abstention among population age 18 and older from the Behavioral Risk Factors Survey, CDC] (Continued)

State	Per capita ethanol consumption	Percentage of abstainers for State	Average consumption per drinker
1992 .....	2.18	47.2	4.14
1991 .....	2.20	44.9	3.98
1990 .....	2.26	46.1	4.19
1989 .....	2.18	48.4	4.23
1988 .....	2.23	49.0	4.38
1987 .....	2.27	41.9	3.91
1986 .....	—	—	—
Nevada			
1997 .....	3.96	37.1	6.29
1996 .....	4.07	37.4	6.51
1995 .....	4.00	40.6	6.73
1994 .....	—	—	—
1993 .....	4.18	38.9	6.84
1992 .....	4.32	39.7	7.16
1991 .....	—	—	—
1990 .....	—	—	—
1989 .....	—	—	—
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
New Hampshire			
1997 .....	4.08	38.7	6.66
1996 .....	—	—	—
1995 .....	4.13	35.2	6.38
1994 .....	—	—	—
1993 .....	4.39	32.9	6.54
1992 .....	4.28	36.4	6.73
1991 .....	4.31	34.7	6.60
1990 .....	4.32	33.8	6.52
1989 .....	4.37	32.1	6.43
1988 .....	4.33	31.9	6.36
1987 .....	4.41	27.8	6.10
1986 .....	—	—	—
New Jersey			
1997 .....	2.19	41.7	3.76
1996 .....	2.25	37.8	3.62
1995 .....	2.25	38.4	3.65
1994 .....	—	—	—
1993 .....	2.31	39.8	3.84
1992 .....	2.35	47.0	4.44
1991 .....	2.35	43.7	4.18
1990 .....	—	—	—
1989 .....	—	—	—
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
New Mexico			
1997 .....	2.37	46.4	4.41
1996 .....	—	—	—
1995 .....	2.43	45.7	4.47
1994 .....	2.30	43.9	4.10
1993 .....	2.43	48.0	4.67
1992 .....	2.49	50.5	5.04
1991 .....	2.56	57.5	6.02
1990 .....	2.65	51.2	5.43
1989 .....	2.58	47.5	4.91
1988 .....	2.64	48.2	5.09
1987 .....	2.65	61.2	6.82
1986 .....	2.70	49.2	5.31
New York			
1997 .....	1.93	46.5	3.62
1996 .....	1.94	46.6	3.63
1995 .....	1.96	44.2	3.52
1994 .....	—	—	—
1993 .....	2.00	44.1	3.58
1992 .....	2.11	46.6	3.94
1991 .....	2.15	50.0	4.30
1990 .....	2.31	49.9	4.61
1989 .....	2.36	51.5	4.86
1988 .....	2.47	45.8	4.55
1987 .....	2.53	45.3	4.63
1986 .....	2.55	39.2	4.19

— State did not include pertinent Behavioral Risk Factors Survey item that year.

**Table 4.** Per drinker average ethanol consumption for selected States, 1986–97. [Based on estimates of abstention among population age 18 and older from the Behavioral Risk Factors Survey, CDC] (Continued)

State	Per capita ethanol consumption	Percentage of abstainers for State	Average consumption per drinker
North Carolina			
1997 .....	1.97	62.4	5.23
1996 .....	—	—	—
1995 .....	1.91	66.3	5.68
1994 .....	—	—	—
1993 .....	1.96	62.7	5.25
1992 .....	1.98	61.8	5.19
1991 .....	1.97	67.3	6.02
1990 .....	2.09	64.0	5.80
1989 .....	2.06	62.0	5.42
1988 .....	2.09	60.1	5.23
1987 .....	2.10	59.2	5.14
1986 .....	2.15	57.8	5.09
North Dakota			
1997 .....	2.33	46.3	4.33
1996 .....	—	—	—
1995 .....	2.31	40.0	3.85
1994 .....	—	—	—
1993 .....	2.38	41.3	4.05
1992 .....	2.41	45.7	4.43
1991 .....	2.45	43.0	4.30
1990 .....	2.58	43.1	4.53
1989 .....	2.38	41.8	4.10
1988 .....	2.43	38.2	3.94
1987 .....	2.42	38.1	3.91
1986 .....	2.40	38.3	3.88
Ohio			
1997 .....	1.92	66.3	5.70
1996 .....	—	—	—
1995 .....	1.91	65.9	5.60
1994 .....	—	—	—
1993 .....	1.95	54.3	4.28
1992 .....	1.98	57.4	4.66
1991 .....	2.03	64.8	5.76
1990 .....	2.09	60.8	5.34
1989 .....	2.07	49.9	4.14
1988 .....	2.11	48.5	4.11
1987 .....	2.17	44.2	3.89
1986 .....	2.17	41.8	3.73
Oklahoma			
1997 .....	1.67	67.2	5.10
1996 .....	1.70	69.0	5.48
1995 .....	1.74	72.3	6.29
1994 .....	1.80	61.8	4.71
1993 .....	1.71	64.1	4.77
1992 .....	1.82	65.0	5.15
1991 .....	1.77	64.3	4.95
1990 .....	1.81	63.5	4.96
1989 .....	1.70	63.6	4.68
1988 .....	1.69	58.2	4.04
1987 .....	—	—	—
1986 .....	—	—	—
Oregon			
1997 .....	2.27	43.3	4.01
1996 .....	—	—	—
1995 .....	2.25	43.4	3.98
1994 .....	—	—	—
1993 .....	2.33	41.6	3.99
1992 .....	2.43	48.6	4.73
1991 .....	2.39	43.9	4.27
1990 .....	2.52	48.4	4.88
1989 .....	2.41	44.6	4.36
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
Pennsylvania			
1997 .....	1.87	50.7	3.79
1996 .....	1.88	44.4	3.38
1995 .....	1.83	42.0	3.16
1994 .....	—	—	—
1993 .....	1.97	41.3	3.36

— State did not include pertinent Behavioral Risk Factors Survey item that year.

**Table 4.** Per drinker average ethanol consumption for selected States, 1986–97. [Based on estimates of abstention among population age 18 and older from the Behavioral Risk Factors Survey, CDC] (Continued)

State	Per capita ethanol consumption	Percentage of abstainers for State	Average consumption per drinker
1992 .....	1.99	45.1	3.63
1991 .....	2.06	42.2	3.56
1990 .....	2.16	45.8	3.98
1989 .....	2.10	44.2	3.76
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
Rhode Island			
1997 .....	2.38	40.6	4.01
1996 .....	—	—	—
1995 .....	2.24	34.6	3.43
1994 .....	—	—	—
1993 .....	2.31	35.2	3.56
1992 .....	2.36	36.4	3.72
1991 .....	2.43	39.6	4.02
1990 .....	2.55	38.6	4.15
1989 .....	2.69	40.3	4.51
1988 .....	2.85	49.6	5.65
1987 .....	2.85	49.2	5.62
1986 .....	2.86	38.0	4.62
South Carolina			
1997 .....	2.35	60.3	5.92
1996 .....	—	—	—
1995 .....	2.27	61.9	5.96
1994 .....	—	—	—
1993 .....	2.32	60.7	5.92
1992 .....	2.34	63.5	6.42
1991 .....	2.42	65.3	6.96
1990 .....	2.63	59.8	6.54
1989 .....	2.47	61.4	6.39
1988 .....	2.51	64.6	7.10
1987 .....	2.49	57.1	5.81
1986 .....	2.50	57.5	5.88
South Dakota			
1997 .....	2.18	44.5	3.92
1996 .....	—	—	—
1995 .....	2.22	53.1	4.74
1994 .....	—	—	—
1993 .....	2.23	48.4	4.31
1992 .....	2.27	46.5	4.24
1991 .....	2.28	44.6	4.11
1990 .....	2.35	44.3	4.21
1989 .....	2.09	43.6	3.71
1988 .....	2.13	40.5	3.59
1987 .....	2.22	40.9	3.75
1986 .....	—	—	—
Tennessee			
1997 .....	1.86	71.3	6.49
1996 .....	1.89	69.9	6.27
1995 .....	1.39	71.8	6.75
1994 .....	—	—	—
1993 .....	1.89	72.6	6.90
1992 .....	1.91	73.7	7.27
1991 .....	1.87	74.5	7.35
1990 .....	1.97	70.1	6.60
1989 .....	1.90	68.9	6.12
1988 .....	1.95	65.6	5.66
1987 .....	1.94	63.9	5.38
1986 .....	1.96	61.4	5.07
Texas			
1997 .....	2.25	50.6	4.56
1996 .....	—	—	—
1995 .....	2.25	49.4	4.44
1994 .....	—	—	—
1993 .....	2.35	46.6	4.41
1992 .....	2.46	48.7	4.79
1991 .....	2.40	48.7	4.68
1990 .....	2.48	47.8	4.75
1989 .....	2.46	48.1	4.74
1988 .....	2.47	47.5	4.70
1987 .....	2.51	41.6	4.30
1986 .....	—	—	—

— State did not include pertinent Behavioral Risk Factors Survey item that year.

**Table 4.** Per drinker average ethanol consumption for selected States, 1986–97. [Based on estimates of abstention among population age 18 and older from the Behavioral Risk Factors Survey, CDC] (Continued)

State	Per capita ethanol consumption	Percentage of abstainers for State	Average consumption per drinker
Utah			
1997 .....	1.29	71.7	4.56
1996 .....	—	—	—
1995 .....	1.24	71.0	4.26
1994 .....	—	—	—
1993 .....	1.32	68.2	4.15
1992 .....	1.36	71.2	4.73
1991 .....	1.36	72.4	4.92
1990 .....	1.40	69.8	4.64
1989 .....	1.42	68.8	4.56
1988 .....	1.45	70.2	4.88
1987 .....	1.49	66.7	4.48
1986 .....	1.58	62.0	4.15
Vermont			
1997 .....	2.35	39.8	3.90
1996 .....	2.39	38.4	3.88
1995 .....	2.34	36.2	3.67
1994 .....	—	—	—
1993 .....	2.51	34.4	3.83
1992 .....	2.56	40.0	4.27
1991 .....	2.68	40.1	4.48
1990 .....	2.81	33.4	4.22
1989 .....	—	—	—
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
Virginia			
1997 .....	1.92	45.1	3.50
1996 .....	—	—	—
1995 .....	1.94	46.2	3.60
1994 .....	—	—	—
1993 .....	2.06	48.7	4.01
1992 .....	2.11	51.9	4.38
1991 .....	2.07	48.7	4.03
1990 .....	2.19	48.8	4.27
1989 .....	2.19	46.4	4.08
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—
Washington			
1997 .....	2.19	39.6	3.62
1996 .....	—	—	—
1995 .....	2.18	41.7	3.74
1994 .....	—	—	—
1993 .....	2.28	39.8	3.79
1992 .....	2.45	41.6	4.19
1991 .....	2.40	43.5	4.25
1990 .....	2.50	42.2	4.32
1989 .....	2.45	41.8	4.22
1988 .....	2.49	36.4	3.92
1987 .....	2.58	36.4	4.06
1986 .....	—	—	—
West Virginia			
1997 .....	1.60	69.0	5.17
1996 .....	—	—	—
1995 .....	1.60	72.6	5.84
1994 .....	1.64	66.2	4.85
1993 .....	1.67	70.1	5.58
1992 .....	1.66	72.3	6.00
1991 .....	1.70	72.7	6.23
1990 .....	1.72	69.5	5.65
1989 .....	1.60	69.7	5.29
1988 .....	1.64	67.6	5.05
1987 .....	1.64	64.6	4.64
1986 .....	1.64	65.1	4.70
Wisconsin			
1997 .....	2.77	29.8	3.94
1996 .....	2.65	29.7	3.77
1995 .....	2.69	30.4	3.86
1994 .....	2.75	30.5	3.96
1993 .....	2.73	31.1	3.97

— State did not include pertinent Behavioral Risk Factors Survey item that year.

**Table 4.** Per drinker average ethanol consumption for selected States, 1986–97. [Based on estimates of abstention among population age 18 and older from the Behavioral Risk Factors Survey, CDC] (Continued)

State	Per capita ethanol consumption	Percentage of abstainers for State	Average consumption per drinker
1992 .....	2.76	33.9	4.18
1991 .....	2.77	31.7	4.05
1990 .....	3.08	30.6	4.43
1989 .....	2.96	30.1	4.23
1988 .....	3.02	29.1	4.26
1987 .....	3.11	29.8	4.43
1986 .....	3.16	25.9	4.26
Wyoming			
1997 .....	2.38	47.4	4.52
1996 .....	2.37	39.7	3.93
1995 .....	2.33	46.3	4.34
1994 .....	2.46	40.6	4.14
1993 .....	—	—	—
1992 .....	—	—	—
1991 .....	—	—	—
1990 .....	—	—	—
1989 .....	—	—	—
1988 .....	—	—	—
1987 .....	—	—	—
1986 .....	—	—	—

— State did not include pertinent Behavioral Risk Factors Survey item that year.