

# Underage Drinking in Michigan

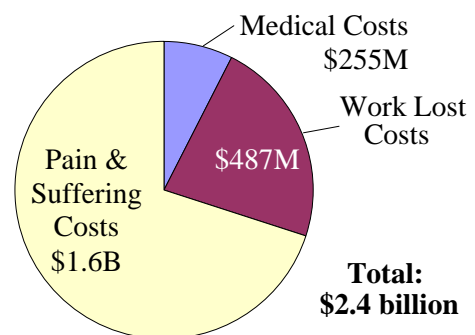
## *The Facts*

Tragic health, social and economic problems result from the use of alcohol by youth. Underage drinking is a causal factor in a host of serious problems, including homicide, suicide, traumatic injury, drowning, burns, violent and property crime, high risk sex, fetal alcohol syndrome, alcohol poisoning, and need for treatment for alcohol abuse and dependence.

### *Problems and Costs Associated with Underage Drinking in Michigan*

Underage drinking cost the citizens of Michigan \$2.4 billion in 2007. These costs include medical care, work loss, and pain and suffering associated with the multiple problems resulting from the use of alcohol by youth.<sup>1</sup> This translates to a cost of \$2,275 per year for each youth in the State. Michigan ranks 28<sup>th</sup> highest among the 50 states for the cost per youth of underage drinking. Excluding pain and suffering from these costs, the direct costs of underage drinking incurred through medical care and loss of work cost Michigan \$742 million each year.

**Costs of Underage Drinking  
Michigan 2007**



**Costs of Underage Drinking by Problem, Michigan 2007**

Problem	Total Costs (in millions)
Youth Violence	\$1,669.8
Youth Traffic Crashes	\$253.6
High-Risk Sex, Ages 14-20	\$129.8
Youth Property Crime	\$100.2
Youth Injury	\$68.2
Poisonings and Psychoses	\$13.4
FAS Among Mothers Age 15-20	\$32.6
Youth Alcohol Treatment	\$84.7
<b>Total</b>	<b>\$2,352.3</b>

Youth violence and traffic crashes attributable to alcohol use by underage youth in Michigan represent the largest costs for the State. However, a host of other problems contribute substantially to the overall cost. Among teen mothers, fetal alcohol syndrome (FAS) alone costs Michigan \$32.6 million.

Young people who begin drinking before age 15 are four times more likely to develop alcohol dependence and are two and a half times more

likely to become abusers of alcohol than those who begin drinking at age 21.<sup>2</sup> In 2007, 2,452 youth 12- 20 years old were admitted for alcohol treatment in Michigan, accounting for 9% of all treatment admissions for alcohol abuse in the State.<sup>3</sup>

## ***Alcohol Consumption by Youth in Michigan***

Underage drinking is widespread in Michigan. Approximately 476,000 underage youth in Michigan drink each year. In 2007, according to self-reports by Michigan students in grades 9-12:<sup>4</sup>

- 72% had at least one drink of alcohol on one or more days during their life.
- 21% had their first drink of alcohol, other than a few sips, before age 13.
- 43% had at least one drink of alcohol on one or more occasion in the past 30 days.
- 25% had five or more drinks of alcohol in a row (i.e. binge drinking) in the past 30 days.
- 4% had at least one drink of alcohol on school property on one or more of the past 30 days.

In 2007, underage drinkers consumed 15.9% of all alcohol sold in Michigan, totaling \$773 million in sales. These sales provided profits of \$379 million to the alcohol industry.<sup>1</sup>

## ***Harm Associated with Underage Drinking in Michigan***

Underage drinking in Michigan leads to substantial harm due to traffic crashes, violent crime, property crime, unintentional injury, and risky sex.

- During 2007, an estimated 53 traffic fatalities and 2,800 nonfatal traffic injuries involved an underage drinking driver.
- In 2006, an estimated 84 homicides; 42,000 nonfatal violent crimes such as rape, robbery and assault; and 59,100 property crimes including burglary, larceny, and car theft involved an underage drinking perpetrator.
- In 2006, an estimated 14 alcohol involved fatal burns, drownings, and suicides involved underage drinking.
- In 2006, an estimated 4,500 teen pregnancies and 20,800 risky sexual acts by teens involved alcohol.

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<sup>1</sup> Miller, TR, Levy, DT, Spicer, RS, & Taylor, DM. (2006) Societal costs of underage drinking *Journal of Studies on Alcohol*, 67(4) 519-528

<sup>2</sup> Grant, B.F., & Dawson, D.A. (1997). Age at onset of alcohol use and its association with DSM-IV alcohol abuse and dependence: Results from the Nation Longitudinal Alcohol Epidemiologic Survey. *Journal of Substance Abuse* 9: 103-110.

<sup>3</sup> Office of Applied Studies, Substance Abuse and Mental Health Services Administration. Treatment Episode Data Set (TEDS). (2007). *Substance Abuse Treatment by Primary Substance of Abuse, According to Sex, Age, Race, and Ethnicity*.

<sup>4</sup> Center for Disease Control (CDC). (2007). Youth Risk Behavior Surveillance System (YRBSS).