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 the need for treatment of alcohol abuse and dependence.

Problems and Costs Associated with Underage Drinking in Michigan

In 2013, underage drinking cost the citizens of Michigan $1.9 billion. These costs include medical care, work loss, and pain and suffering associated with the multiple problems resulting from the use of alcohol by youth.¹ This translates to $1,946 per year for each youth in the state or $4.20 per drink consumed underage. Excluding pain and suffering from these costs, tangible costs of underage drinking including medical care, criminal justice, property damage, and loss of work in Michigan totaled $599.41 million each year or $1.32 per drink. In contrast, a drink in Michigan retails for $0.80.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Total Costs (in millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Youth violence</td>
<td>$1,282.2</td>
</tr>
<tr>
<td>Youth traffic crashes</td>
<td>$237.8</td>
</tr>
<tr>
<td>High-risk sex, Ages 14–20 years</td>
<td>$78.5</td>
</tr>
<tr>
<td>Property and public order crime</td>
<td>$5.7</td>
</tr>
<tr>
<td>Youth injury</td>
<td>$89.4</td>
</tr>
<tr>
<td>Poisonings and psychoses</td>
<td>$17.9</td>
</tr>
<tr>
<td>Fetal alcohol syndrome among mothers aged 15–20 years</td>
<td>$36.1</td>
</tr>
<tr>
<td>Youth alcohol treatment</td>
<td>$48.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$1,928.4 (e.g. $1.9 B)</strong></td>
</tr>
</tbody>
</table>

Youth violence (homicide, suicide, aggravated assault) 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 alone costs Michigan $36 million.

In 2012, 1,230 youth aged 12 to 20 years were admitted for alcohol treatment in Michigan, accounting for 6% of all treatment admissions for alcohol abuse in the state.² 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.\textsuperscript{3} We did not cost these adult problems.

**Alcohol Consumption by Youth in Michigan**

Underage drinking is widespread in Michigan. Approximately 299,000 underage customers drink each year in Michigan. In 2013, Michigan students in grades 9 to 12 reported the following:\textsuperscript{4}

- 60.2% had at least one drink of alcohol on one or more days during their life.
- 14.0% had their first drink of alcohol, other than a few sips, before age 13.
- 28.3% had at least one drink of alcohol on one or more occasions in the past 30 days.
- 16.7% had five or more drinks of alcohol in a row (binge drinking) in the past 30 days.

In 2012, underage customers consumed 9.5% of all alcohol sold in Michigan, totaling $365 million in sales (in 2013 dollars). These sales provided profits of $179 million to the alcohol industry.\textsuperscript{1} Ranking states based on the percentage of alcohol consumed underage, with 1 the highest, Michigan ranked number 27. This percentage is affected by both adult and youth drinking levels.

Annual sales of alcohol consumed by youth in Michigan averaged $1,221 per underage customer. Underage customers were heavier consumers than adults. They drank an average of 4.2 drinks per day; in contrast, legal customers consumed only 1.6.

**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 high-risk sex.

- During 2012, an estimated 32 traffic fatalities and 1,700 nonfatal traffic injuries were attributable to driving after underage drinking.
- In 2012, an estimated 44 homicides; 23,100 nonfatal violent crimes such as rape, robbery, and assault; 23,600 property crimes including burglary, larceny, and car theft; and 442,000 public order crimes including vandalism, disorderly conduct, loitering, and curfew violations were attributable to underage drinking.
- In 2011, an estimated 10 alcohol-involved fatal burns, drownings, and suicides were attributable to underage drinking.
- In 2013, an estimated 745 teen pregnancies and 24,135 teens having high-risk sex were attributable to underage drinking.

For comparison with other states, in U.S. rather than state prices, the harm from underage drinking per youth in Michigan averages $1,497. Such comparisons require caution. In part, they may reflect differences in crime and crash rates, problem-reporting to police, and co-occurring drug use.

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