Where Do We Go From Here? How public health experts can shape the future of cannabis policy.

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How Will Legalization Be Graded?

What people care about:

- Youth Use
- Driving While High
- Hospitalizations
- Tax Revenue
Youth Use

NSDUH: Past 30-day marijuana use, 12-17 years old, 2005/06-2016/17

<table>
<thead>
<tr>
<th>Year</th>
<th>Colorado</th>
<th>U.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005/06</td>
<td>7.6%</td>
<td>6.7%</td>
</tr>
<tr>
<td>2006/07</td>
<td>8.1%</td>
<td>6.7%</td>
</tr>
<tr>
<td>2007/08</td>
<td>9.1%</td>
<td>6.7%</td>
</tr>
<tr>
<td>2008/09</td>
<td>10.2%</td>
<td>7.4%</td>
</tr>
<tr>
<td>2009/10</td>
<td>9.9%</td>
<td>7.0%</td>
</tr>
<tr>
<td>2010/11</td>
<td>10.7%</td>
<td>7.6%</td>
</tr>
<tr>
<td>2011/12</td>
<td>10.5%</td>
<td>7.5%</td>
</tr>
<tr>
<td>2012/13</td>
<td>11.2%</td>
<td>7.1%</td>
</tr>
<tr>
<td>2013/14</td>
<td>12.6%</td>
<td>7.2%</td>
</tr>
<tr>
<td>2014/15</td>
<td>11.1%</td>
<td>7.2%</td>
</tr>
<tr>
<td>2015/16</td>
<td>9.1%</td>
<td>6.8%</td>
</tr>
<tr>
<td>2016/17</td>
<td>9.0%</td>
<td>6.5%</td>
</tr>
</tbody>
</table>

Source: Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health (2017).
Adult Use

Past 30-day adult marijuana use, by age group, 2014–2017: BRFSS

Source: Marijuana Health Monitoring and Research Program, Colorado Department of Public Health and Environment.
Poison Control Center Calls

Figure 46. Human marijuana exposures reported to Rocky Mountain Poison and Drug Center, by age group, 2000–2017

Source: Colorado Department of Public Health & Environment (2018), at https://www.colorado.gov/pacific/cdphe/marijuana-health-effects-poison-center-calls

Note: Human marijuana exposures reported to RMPDC were determined by the presence of the generic code “Marijuana-0083000” from the National Poison Data System.
Cannabis vs. Alcohol

Number of Human Marijuana Exposure Calls† Compared to the Number of Human Alcohol‡ Exposure Calls to Rocky Mountain Poison and Drug Center (RMPDC) from January 1, 2000 to December 31, 2015 in Colorado

"EEOHT, CDHPE 2016.
†Human marijuana exposure calls to RMPDC were determined by the presence of the generic code Marijuana - 0083000 from the National Poison Data System and questionable exposures were validated with a records review.
‡Human alcohol exposure calls to RMPDC were determined by the presence of the generic code Ethanol (Beverages) - 0019140 from the National Poison Data System.
Driving While High

Figure 15. Colorado drivers in fatal crashes involving cannabinoids, 2013–2017

Source: Colorado Department of Transportation, Data Intelligence Group, Toxicology Data (2018). Note: A) Numbers are based on toxicology results for drivers tested for drugs after a crash. See Table 21 for number and percent of drivers tested each year; B) the presence of a cannabinoid does not necessarily indicate recent use of marijuana or impairment.
# State-by-State Comparison

<table>
<thead>
<tr>
<th>State</th>
<th>Population</th>
<th>Vehicle miles traveled (millions)</th>
<th>Fatal crashes</th>
<th>Deaths</th>
<th>Deaths per 100,000 population</th>
<th>Deaths per 100 million vehicle miles traveled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arizona</td>
<td>6,931,071</td>
<td>66,859</td>
<td>865</td>
<td>962</td>
<td>13.9</td>
<td>1.44</td>
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<tr>
<td>Arkansas</td>
<td>2,988,248</td>
<td>36,093</td>
<td>488</td>
<td>545</td>
<td>18.2</td>
<td>1.51</td>
</tr>
<tr>
<td>California</td>
<td>39,250,017</td>
<td>366,402</td>
<td>3,357</td>
<td>3,623</td>
<td>9.2</td>
<td>0.99</td>
</tr>
<tr>
<td>Colorado</td>
<td>5,540,545</td>
<td>52,993</td>
<td>558</td>
<td>608</td>
<td>11.0</td>
<td>1.15</td>
</tr>
<tr>
<td>Louisiana</td>
<td>4,681,666</td>
<td>49,468</td>
<td>704</td>
<td>757</td>
<td>16.2</td>
<td>1.53</td>
</tr>
<tr>
<td>U.S. total</td>
<td>323,127,513</td>
<td>3,220,677</td>
<td>34,439</td>
<td>37,461</td>
<td>11.6</td>
<td>1.16</td>
</tr>
</tbody>
</table>
Figure 116. Total taxes, licenses, and fees, 2014–June 2018

Note: Calendar year 2018 taxes reported through June 2018.
Ongoing and Unresolved Implementation Issues

- Onsite consumption and events
- Delivery
- Potency
- Health and Economic Equity
Next Steps: The Nuts and Bolts for State Reform

- Onsite consumption and events
- Delivery
- Potency
- Health and Economic Equity
Changing Federal Landscape

- Farm Bill
- Barr Statement
- STATES Act
Big Marijuana
The Pareto Principle

80% | 20%
Legacy Cannabis Programs

Figure 119. Monthly marijuana sales, by type, 2014-June 2018

Source: Colorado Department of Revenue, Marijuana Enforcement Division (2018). Marijuana Sales Reports at https://www.colorado.gov/pacific/revenue/colorado-marijuana-sales-reports
Note: Medical marijuana sales (gross sales minus wholesale) and sales of accessories/other products that do not contain medical marijuana. Retail marijuana sales (gross sales minus wholesale) and does not include sales of accessories/other products that do not contain retail marijuana.
What do we want from federal legalization?

- Research? FDA approval
- Price Controls
- Advertising Restrictions
Thank You!

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