The 2014 Arizona Youth Survey: What can it tell us about youth in Arizona?

Prepared for:
Injury Prevention Advisory Council

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The Arizona Youth Survey

- Biennial school-based survey of 8th, 10th, and 12th grade students
  - 2006, n=60,401
  - 2008, n=54,734
  - 2010, n=63,784
  - 2012, n=62,817
  - 2014, n=48,244

- The core of the survey is the Communities that Care risk and protective factor model
Communities that Care Model

- Developed by J. David Hawkins, Ph.D.; Richard F. Catalano, Ph.D.

- Risk Factors are characteristics that increase the likelihood that a youth will develop one or more health and/or behavioral problem

- Protective Factors are the characteristics which decrease the likelihood that a youth will develop one or more health and/or behavioral problem
AYS: Risk Factors

- **Community**
  - Low neighborhood attachment
  - Laws and norms favorable to drug use
  - Perceived availability of drugs
  - Perceived availability of handguns

- **Family**
  - Poor family management
  - Family conflict
  - Family history of anti-social behavior
  - Parental attitudes favorable to anti-social behavior
  - Parental attitudes favorable to drug use
AYS: Risk Factors (cont.)

- **School**
  - Academic failure
  - Low Commitment to school

- **Peer-Individual**
  - Rebelliousness
  - Early initiation of anti-social behavior
  - Attitudes favorable to anti-social behavior
  - Attitudes favorable to drug use
  - Interaction with antisocial peers
  - Friends use of drugs
  - Rewards for anti-social behavior
  - Gang Involvement
AYS: Protective Factors

- Community
  - Rewards for pro-social involvement
- Family
  - Family attachment
  - Opportunities for pro-social involvement
  - Rewards for pro-social involvement
- School
  - Opportunities for pro-social involvement
  - Rewards for pro-social involvement
- Peer-Individual
  - Belief in the moral order
  - Interaction with pro-social peers
  - Pro-social involvement
  - Rewards for pro-social involvement
AYS: Other measures

- Lifetime and 30-day ATOD use
- Age of initiation of drug use
- Delinquent and anti-social behavior
  - Assault
  - Gang involvement
  - Drug selling
  - Drinking and driving
  - Motor vehicle theft
  - Bullying and Cyberbullying
- Bullying victimization
- Dating violence victimization
AYS: Other measures (cont.)

- Current and former incarcerated relatives
- Youth resiliency
- School safety
  - Guns in school
  - Other weapons in school
  - Feelings of safety in and on their way to school
- Source of drugs and alcohol
  - Alcohol
  - Marijuana
  - Prescription drugs
- Why youth use (and do not use) drugs
AYS: Demographics

- Zip Code
- Age
- Grade
- Gender
- Country of origin
- Parent education
- Race and ethnicity
- Free or reduced lunch
- Family composition
- Children of military personnel
Youth substance use

SAMHSA National Survey on Drug Use and Health (NSDUH) reports:

- Use of illicit drugs by youth decreased in 2013 to 8.8%
- Marijuana was the most commonly used illicit drug in the US
- 11.6% of youth have used alcohol
- 52.2% of underage drinkers consumed alcohol at someone else’s home; 34.2% consumed alcohol at their home
- 38% of young adults (ages 18-25) engage in binge drinking behavior
- 22 million people age 12 or older experienced substance dependence or abuse
Self-Reported Past 30-day Substance Use, Arizona 8th Grade Students, 2012 - 2014

% reporting use

- Alcohol: 2012: 17.1%, 2014: 12.8%
- Marijuana: 2012: 7.7%, 2014: 6.6%
- Any Rx: 2012: 5.7%, 2014: 4.9%
- Rx Pain Relievers: 2012: 4.5%, 2014: 3.8%
- Synthetic: 2012: 3.8%, 2014: 3.8%
- Inhalants: 2012: 4.2%, 2014: 3.1%
- OTC's: 2012: 4.0%, 2014: 3.1%
- Rx Sedatives: 2012: 1.9%, 2014: 1.7%
- Rx Stimulants: 2012: 0.9%, 2014: 0.8%
- Ecstasy: 2012: 0.9%, 2014: 0.8%
- LSD: 2012: 0.7%, 2014: 0.7%
- Club Drugs: 2012: 0.6%, 2014: 0.6%
- Meth: 2012: 0.2%, 2014: 0.1%
- Heroin: 2012: 0.3%, 2014: 0.2%
Self-Reported Past 30-day Substance Use, Arizona 10th Grade Students, 2012 - 2014
Self-Reported Past 30-day Substance Use, Arizona 12th Grade Students, 2012 - 2014

% reporting use

- Alcohol: 43.5% (2012), 40.6% (2014)
- Marijuana: 22.5% (2012), 22.9% (2014)
- Any Rx: 10.0% (2012), 9.8% (2014)
- Rx Pain Relievers: 8.0% (2012), 6.9% (2014)
- Synthetic: 5.5% (2012), 5.2% (2014)
- Inhalants: 5.2% (2012), 4.9% (2014)
- OTC’s: 4.3% (2012), 3.4% (2014)
- Rx Sedatives: 3.4% (2012), 2.7% (2014)
- Rx Stimulants: 3.4% (2012), 2.8% (2014)
- Ecstasy: 2.0% (2012), 1.7% (2014)
- LSD: 2.3% (2012), 2.4% (2014)
- Cocaine: 2.1% (2012), 2.1% (2014)
- Club Drugs: 2.1% (2012), 2.1% (2014)
- Meth: 0.5% (2012), 0.4% (2014)
- Heroin: 0.5% (2012), 0.4% (2014)
Past 30-day Substance Use, 2014

Bar chart showing the percentage of students using various substances past 30 days for Grade 8, Grade 10, Grade 12, and State.
Why youth used AToD, 2014

- Have fun: 15.9%
- Other: 14.6%
- Get high: 11.3%
- Deal with stress: 11.3%
- Keep from feeling sad: 8.9%
- Something new: 8.2%
- Bored: 7.1%
- Fit in: 5.7%
- Help focus: 4.6%
- Feel normal: 2.9%
- Needed it: 2.3%
- Lose weight: 1.9%
- Get back at parents: 1.1%
- Be grown up: 1.1%
- Like famous person: 0.6%
How youth obtained alcohol, 2014

- Bought it in a store: Grade 8 7.4%, Grade 10 7.6%, Grade 12 10.5%
- Restaurant, bar or club: Grade 8 4.7%, Grade 10 4.7%, Grade 12 5.4%
- Public event such as a concert or sporting event: Grade 8 4.5%, Grade 10 3.0%, Grade 12 3.7%
- I gave someone else money: Grade 8 14.5%, Grade 10 25.4%, Grade 12 35.7%
- Parent of guardian: Grade 8 19.8%, Grade 10 16.7%, Grade 12 17.1%
- Family member over 21: Grade 8 20.5%, Grade 10 16.2%, Grade 12 15.8%
- Someone else over 21: Grade 8 15.4%, Grade 10 21.5%, Grade 12 27.2%
- Someone else under the age of 21: Grade 8 19.8%, Grade 10 26.4%, Grade 12 21.6%
- Party: Grade 8 33.8%, Grade 10 45.6%, Grade 12 51.0%
- Home: Grade 8 25.2%, Grade 10 21.8%, Grade 12 15.2%
- I took it from a store or a home: Grade 8 7.5%, Grade 10 9.2%, Grade 12 5.7%
- Some other way: Grade 8 26.3%, Grade 10 17.8%, Grade 12 13.7%
How youth obtained marijuana, 2014

- I got it from someone with a Medical Marijuana Card:
  - Grade 8: 10.9%, Grade 10: 13.4%, Grade 12: 17.7%

- Friends:
  - Grade 8: 69.6%, Grade 10: 77.9%, Grade 12: 78.2%

- Family/Relatives:
  - Grade 8: 16.8%, Grade 10: 14.7%, Grade 12: 11.9%

- Parties:
  - Grade 8: 25.0%, Grade 10: 28.4%, Grade 12: 27.6%

- Home:
  - Grade 8: 6.3%, Grade 10: 5.3%, Grade 12: 5.5%

- School:
  - Grade 8: 14.8%, Grade 10: 12.3%, Grade 12: 7.6%

- Other:
  - Grade 8: 21.4%, Grade 10: 21.0%
How youth obtained Rx drugs, 2014

- Friends: 56.3% (Grade 8), 59.4% (Grade 10), 56.3% (Grade 12)
- Family/Relatives: 14.8% (Grade 8), 17.3% (Grade 10), 16.7% (Grade 12)
- Parties: 20.5% (Grade 8), 21.7% (Grade 10), 20.5% (Grade 12)
- Home (e.g., Medicine Cabinet): 26.1% (Grade 8), 25.9% (Grade 10), 22.3% (Grade 12)
- Doctor/Pharmacy: 12.9% (Grade 8), 16.2% (Grade 10), 17.7% (Grade 12)
- School: 11.9% (Grade 8), 12.4% (Grade 10), 11.7% (Grade 12)
- Other: 17.9% (Grade 8), 14.2% (Grade 10), 13.9% (Grade 12)
- Over the Internet: 2.7% (Grade 8), 3.0% (Grade 10), 1.9% (Grade 12)
- Outside the United States (e.g., Mexico): 8.6% (Grade 8), 5.0% (Grade 10), 5.7% (Grade 12)
Risk and Protective factors

- Risk Factors are characteristics that **increase the likelihood** that a youth will develop one or more health and/or behavioral problem.

- Protective Factors are the characteristics which **decrease the likelihood** that a youth will develop one or more health and/or behavioral problem.

- The presence of a risk factor is not a guarantee of a problem but rather an indicator for which correction and intervention can be applied.
Risk Factors, 8th grade students, 2014

% reporting risk

- Laws & Norms Favor Drug Use
- Perceived Availability of Drugs
- Perceived Availability of Handguns
- Parent Attitudes Favorable to ASB
- Parent Attitudes Favorable to Drugs
- Low Commitment to School
- Rebelliousness
- Early Initiation to Drug Use
- Attitudes Favorable to ASB
- Perceived Risk of Drug Use
- Interaction with Antisocial Peers
- Friend's Use of Drugs
- Gang Involvement
- Students at High Risk

- 29.2%
- 29.6%
- 31.8%
- 36.7%
- 43.2%
- 21.2%
- 45.0%
- 33.4%
- 19.8%
- 31.7%
- 21.4%
- 56.9%
- 43.6%
- 29.7%
- 24.9%
- 10.4%
Risk Factors, 10th grade students, 2014

- Laws & Norms Favor Drug Use: 34.8%
- Perceived Availability of Drugs: 36.6%
- Perceived Availability of Handguns: 20.6%
- Family History of Anti-Social Behavior: 36.8%
- Parent Attitudes Favorable to A3B: 44.6%
- Parent Attitudes Favorable to Drugs: 32.8%
- Low Commitment to School: 20.6%
- Rebelliousness: 36.6%
- Early Initiation to Drug Use: 22.4%
- Attitudes Favorable to A3B: 36.1%
- Attitudes Favorable to Drug Use: 36.1%
- Perceived Risk of Drug Use: 29.8%
- Interaction with Antisocial Peers: 58.4%
- Friend's Use of Drugs: 41.5%
- Gang Involvement: 34.7%
- Students at High Risk: 8.4%
- Other: 23.3%
Risk Factors, 12th grade students, 2014

- Laws & Norms Favor Drug Use
- Perceived Availability of Drugs
- Perceived Availability of Handguns
- Parent Attitudes Favorable to ASB
- Parent Attitudes Favorable to Drugs
- Low Commitment to School
- Rebelliousness
- Early Initiation to Drug Use
- Attitudes Favorable to ASB
- Attitudes Favorable to Drug Use
- Perceived Risk of Drug Use
- Interaction with Antisocial Peers
- Friends' Use of Drugs
- Gang Involvement
- Students at High Risk
Protective Factors, 8th grade students, 2014

- Rewards for Prosocial Involvement: 31.4%
- Family Attachment: 53.3%
- School opportunity for Prosocial Involvement: 62.2%
- Rewards for Prosocial Involvement: 60.0%
- Family opportunity for Prosocial Involvement: 64.7%
- Rewards for Prosocial Involvement: 53.7%
- Belief in the Moral Order: 69.6%
- Interaction with Prosocial Peers: 47.9%
- Prosocial Involvement: 42.7%
- Rewards for Prosocial Involvement: 61.3%
- Students with High Protection: 54.8%
Protective Factors, 10th grade students, 2014

- Rewards for Prosocial Involvement: 35.0%
- Family Attachment: 47.8%
- School opportunity for Prosocial Involvement: 57.2%
- Rewards for Prosocial Involvement: 53.6%
- Family opportunity for Prosocial Involvement: 66.6%
- Rewards for Prosocial Involvement: 62.5%
- Belief in the Moral Order: 75.8%
- Interaction with Prosocial Peers: 53.5%
- Prosocial Involvement: 51.9%
- Rewards for Prosocial Involvement: 63.6%
- Students with High Protection: 61.6%
Protective Factors, 12th grade students, 2014

- Rewards for Prosocial Involvement: 34.0%
- Family Attachment: 55.2%
- School opportunity for Prosocial Involvement: 56.8%
- Rewards for Prosocial Involvement: 52.0%
- Family opportunity for Prosocial Involvement: 67.4%
- Rewards for Prosocial Involvement: 47.8%
- Belief in the Moral Order: 59.6%
- Interaction with Prosocial Peers: 49.6%
- Prosocial Involvement: 44.2%
- Rewards for Prosocial Involvement: 56.2%
- Students with High Protection: 54.8%
Adolescent development

- Around age 11, the pre-frontal cortex (PFC) and parietal lobes begin a period of prolonged pruning of neuronal axons resulting in thinning of cortical grey matter. At the same time, there appears to be an increase in neuronal myelination.

- Researchers have argued that the protracted pruning of the PFC represents growing frontal control over behavior, the absence of which is associated with impulsivity and poor decision-making.
Past year problem/Risk behaviors, 8th-12th grades

<table>
<thead>
<tr>
<th>Behavior</th>
<th>Grade 8</th>
<th>Grade 10</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy Drinking</td>
<td>6.3%</td>
<td>14.4%</td>
<td>22.7%</td>
</tr>
<tr>
<td>Suspended from School</td>
<td>14.3%</td>
<td>9.6%</td>
<td>7.1%</td>
</tr>
<tr>
<td>Drunk or High at School</td>
<td>8.4%</td>
<td>16.5%</td>
<td>19.8%</td>
</tr>
<tr>
<td>Sold Illegal Drugs</td>
<td>3.6%</td>
<td>7.7%</td>
<td>8.9%</td>
</tr>
<tr>
<td>Stolen or Tried to Steal a Motor Vehicle</td>
<td>1.7%</td>
<td>2.1%</td>
<td>1.8%</td>
</tr>
<tr>
<td>Been Arrested</td>
<td>5.0%</td>
<td>6.0%</td>
<td>5.9%</td>
</tr>
<tr>
<td>Attacked Someone with the Idea of Seriously Hurting Them</td>
<td>9.8%</td>
<td>8.9%</td>
<td>6.6%</td>
</tr>
</tbody>
</table>
Past 30-day risky driving behaviors, 8th-12th grades

- **Drive a car or other vehicle when you had been drinking alcohol?**
  - Grade 8: 3.1%
  - Grade 10: 4.5%
  - Grade 12: 9.9%

- **Ride in a car or other vehicle driven by someone who had been drinking alcohol?**
  - Grade 8: 21.5%
  - Grade 10: 19.9%
  - Grade 12: 21.5%

- **Drive a car or other vehicle after using Rx drugs?**
  - Grade 8: 2.0%
  - Grade 10: 3.1%
  - Grade 12: 5.4%
Past year school safety, 2012 - 2014

- Threatened at school: 9.1% (2012), 9.2% (2014)
- Fight at school: 12.7% (2012), 11.0% (2014)
- Felt Unsafe near/at School: 6.2% (2012), 7.5% (2014)
- Carried a weapon at school: 5.3% (2012), 4.9% (2014)
Past year school safety, 2014

<table>
<thead>
<tr>
<th>Safety Issue</th>
<th>Grade 8</th>
<th>Grade 10</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threatened at school</td>
<td>11.5%</td>
<td>8.0%</td>
<td>5.9%</td>
</tr>
<tr>
<td>Fight at school</td>
<td>14.9%</td>
<td>8.9%</td>
<td>5.7%</td>
</tr>
<tr>
<td>Felt unsafe at or on way to school</td>
<td>9.9%</td>
<td>6.1%</td>
<td>4.4%</td>
</tr>
<tr>
<td>Carried a weapon to school</td>
<td>4.2%</td>
<td>5.6%</td>
<td>5.5%</td>
</tr>
</tbody>
</table>
Past year bullying, 2014

- **Been bullied**: 40.2% (Grade 8), 28.4% (Grade 10), 17.0% (Grade 12)
- **Been electronically bullied**: 30.3% (Grade 8), 25.4% (Grade 10), 18.7% (Grade 12)
- **Was a bully**: 26.2% (Grade 8), 18.0% (Grade 10), 11.4% (Grade 12)
Past year bullying, 2014

Putting them all together, what were your grades like last year?

- Mostly F’s
  - Not bullied: 1.5%
  - Bullied or eBullied: 2.0%
- Mostly D’s
  - Not bullied: 3.9%
  - Bullied or eBullied: 5.3%
- Mostly C’s
  - Not bullied: 19.1%
  - Bullied or eBullied: 21.3%
- Mostly B’s
  - Not bullied: 37.5%
  - Bullied or eBullied: 37.8%
- Mostly A’s
  - Not bullied: 38.0%
  - Bullied or eBullied: 33.6%
AYS Publications and Data Availability

- State and County Profiles
- City Profiles
- Research Briefs
  - AYS Overview
  - Underage Drinking
  - Marijuana
  - Prescription Drugs
- On-line Community Data Project
  - Data tables
  - Charts and graphs
  - Maps

FOR MORE INFO...

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