HEALTH FOR A CHANGE

Finding and Understanding Health Data on Kentucky’s Youth

December 6, 2017
Foundation for a Healthy Kentucky’s Mission:

To address the unmet health needs of Kentuckians
Investing in communities.
Informing health policy.

By…

• Developing and influencing policy
• Improving access to care
• Reducing health risks and disparities
• Promoting health equity
OUR MISSION: TO ADDRESS THE UNMET HEALTH NEEDS OF KENTUCKIANS BY DEVELOPING AND INFLUENCING POLICY, IMPROVING ACCESS TO CARE,
REGISTER NOW!
Monday, September 25, 2017
Marriott Griffin Gate, Lexington, KY

Howard L. Bost Memorial Health Policy Forum
KENTUCKY’S SUBSTANCE USE CRISIS

SOLUTIONS AND STRATEGIES

Partners:
Interact for Health • KET • Kentucky Chamber of Commerce • Kentuckyiana Health Collaborative • Gilead • Health Enterprises Network

Click here to register!

2016 HEALTH POLICY FORUM: HEALTH AS AN ECONOMIC DRIVER

Click here to download the 2016 agenda.

2016 Speakers
Gail Christopher, DN W.K. Kellogg Foundation

Dr. Gail Christopher is vice president for program strategy at the W.K. Kellogg Foundation in Battle Creek, Michigan, where she serves as the executive team that provides overall direction and leadership for the Foundation. She also leads the Food, Health &
What are we doing?

Our Mission: To improve Kentucky’s health by protecting Kentuckians from secondhand smoke and other tobacco emissions, and by reducing the high rate of smoking and tobacco use in the Commonwealth.

Initially, the Coalition for a Smoke-Free Tomorrow will engage in an intense, targeted campaign focused on three goals in Kentucky in 2017-2018:

- Secure an increase in the state cigarette tax of $1 or more per pack, with parallel increases in the tax rates on other tobacco products;

- Help counties and cities enact comprehensive smoke-free ordinances covering all workplaces; and

- Educate the public and health care providers about cessation resources and ensure effective policy implementation by payers.
Sponsored every two years by Interact for Health and the Foundation for a Healthy Kentucky, the Data! Forum showcases novel and effective uses of health data in the Kentucky-Ohio region and highlights national and regional innovation and open data efforts.

Data Forum! Fostering Health Innovation in Kentucky and Ohio

2017 Conference Agenda

2017 Complete Video Playlist
Youth Risk Behavior Survey and School Health Profiles

Stephanie Bunge, School Health Consultant
Kentucky Department of Education
School-Based Surveillance

- Centers for Disease Control and Prevention (CDC) funds cooperative agreements at the state level with departments of education or departments of public health.
- Odd-numbered years – Youth Risk Behavior Survey (YRBS)
- Even-numbered years – School Health Profiles (Profiles)
YRBS monitors six categories of priority health-risk behaviors among youth and young adults including:

- behaviors that contribute to unintentional injuries and violence (including suicide),
- tobacco use,
- alcohol and drug use,
- sexual behaviors that contribute to unintended pregnancy and STDs, including HIV infection,
- unhealthy dietary behaviors,
- and physical activity.
Youth Risk Behavior Survey (YRBS)

Administration:

- Approximately 50 randomly selected middle schools and 60 randomly selected high schools participate
- Administered to 3-5 randomly selected classes – normally during 2nd period
- Takes about 45 minutes to complete
- Passive parental permission is required for students of the selected classes
- Completely voluntary and anonymous
Youth Risk Behavior Survey (YRBS)

- Data is collected through a partnership with the Family Resource and Youth Services Centers (FRYSC).
- Data can only be reported at the state level: school, district and county data isn’t available.
2017 Kentucky YRBS Results
Percentage of Middle School Students Who Ever Tried Cigarette Smoking,* by Sex, Grade,† and Race/Ethnicity, 2017

*Even one or two puffs
†8th > 6th, 8th > 7th (Based on t-test analysis, p < 0.05.)
All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.
Note: This graph contains weighted results.

Kentucky - YRBS, 2017 - QN17
Percentage of Middle School Students Who Ever Tried Cigarette Smoking, * 2009-2017†

*Even one or two puffs
†Decreased 2009-2017 [Based on linear trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade (p < 0.05).]
Note: This graph contains weighted results.

Kentucky - YRBS, 2009-2017 - QN17
Percentage of Middle School Students Who Attended Physical Education Classes (PE) on 1 or More Days,* by Sex, Grade,† and Race/Ethnicity, 2017

*In an average week when they were in school
†6th > 7th (Based on t-test analysis, p < 0.05.)
All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.
Missing bar indicates fewer than 100 students in this subgroup.
Note: This graph contains weighted results.

Kentucky - YRBS, 2017 - QN44
Percentage of Middle School Students Who Attended Physical Education Classes (PE) on 1 or More Days,* 2009-2017†

*In an average week when they were in school
†No change 2009-2017 [Based on linear trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade (p < 0.05).]
Note: This graph contains weighted results.

Kentucky - YRBS, 2009-2017 - QN44
Percentage of High School Students Who Currently Used an Electronic Vapor Product,* by Sex,† Grade,‡ and Race/Ethnicity, 2017

*Including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey

†M > F; 12th > 9th, 12th > 10th, 12th > 11th (Based on t-test analysis, p < 0.05.)

‡All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

Note: This graph contains weighted results.

Kentucky - YRBS, 2017 - QN35
Percentage of High School Students Who Currently Used an Electronic Vapor Product,* 2015-2017†

*Including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey
†Decreased 2015-2017 [Based on linear trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade (p < 0.05).]
Note: This graph contains weighted results.

Kentucky - YRBS, 2015-2017 - QN35
### Percentage of High School Students Who Ate Fruit or Drank 100% Fruit Juices One or More Times Per Day,\(^*\) by Sex,\(^\dagger\) Grade, and Race/Ethnicity, 2017

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Male</th>
<th>Female</th>
<th>9th</th>
<th>10th</th>
<th>11th</th>
<th>12th</th>
<th>Black</th>
<th>Hispanic</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent</td>
<td>48.3</td>
<td>51.6</td>
<td>45.1</td>
<td>51.2</td>
<td>45.6</td>
<td>51.7</td>
<td>45.1</td>
<td>50.1</td>
<td>47.1</td>
<td>48.1</td>
</tr>
</tbody>
</table>

*Such as orange juice, apple juice, or grape juice, during the 7 days before the survey

\(^\dagger\)M > F (Based on t-test analysis, p < 0.05.)

All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

Note: This graph contains weighted results.

Kentucky - YRBS, 2017 - QNFR1
Percentage of High School Students Who Ate Fruit or Drank 100% Fruit Juices One or More Times Per Day,* 2003-2017†

*Such as orange juice, apple juice, or grape juice, during the 7 days before the survey
†Increased 2003-2017, increased 2003-2013, decreased 2013-2017 [Based on linear and quadratic trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade (p < 0.05). Significant linear trends (if present) across all available years are described first followed by linear changes in each segment of significant quadratic trends (if present).]
Note: This graph contains weighted results.

Kentucky - YRBS, 2003-2017 - QNFR1
School Health Profiles (Profiles)
School Health Profiles (Profiles)

Profiles monitors and assesses:

- characteristics of and trends in school health education,
- physical education and physical activity,
- practices related to bullying and sexual harassment,
- school health policies related to tobacco-use prevention and nutrition,
- school-based health services,
- family engagement and community involvement,
- and school health coordination.
School Health Profiles (Profiles)

Administration:

- Consists of two questionnaires – one for the principal and one for the lead health education teacher
- Approximately 325 middle and high schools across the state are randomly selected to participate.
- Participation is voluntary.
School Health Profiles (Profiles)

- Data can only be reported at the state level: school, district and county data isn’t available.
- Data is reported in two separate reports - one for the data from the principal questionnaire, one for the data from the lead health education teacher questionnaire.
2016 Kentucky Profiles Results
25 Percentage of schools that follow a policy that mandates a "tobacco-free environment." A "tobacco-free environment" is one that prohibits tobacco use by students, staff, and visitors in school buildings, at school functions,

*Responses to question 23 (a, b, c, and d), question 24 (a and b), and question 25 (a, b, c, and d) are all "yes."
29. Percentage of schools that never, rarely, sometimes, or almost always or always offer fruits or non-fried vegetables at celebrations when foods and beverages are offered.

a. Foods or beverages are not offered at school celebrations
   - High Schools: 3.0%
   - Middle Schools: 4.7%
   - Junior/Senior High Schools: 4.2%
   - All Schools: 4.2%

b. Never
   - High Schools: 3.0%
   - Middle Schools: 5.0%
   - Junior/Senior High Schools: 3.1%
   - All Schools: 2.8%

c. Rarely
   - High Schools: 19.9%
   - Middle Schools: 19.9%
   - Junior/Senior High Schools: 18.4%
   - All Schools: 18.4%

d. Sometimes
   - High Schools: 48.9%
   - Middle Schools: 48.0%
   - Junior/Senior High Schools: 48.9%
   - All Schools: 48.9%

e. Always or almost always
   - High Schools: 28.0%
   - Middle Schools: 24.3%
   - Junior/Senior High Schools: 25.7%
   - All Schools: 25.7%

NA = Not available
36. Percentage of schools that have a full-time registered nurse who provides health services to students.
Contact Information

- Stephanie Bunge – Stephanie.bunge@education.ky.gov
- Kentucky YRBS webpage: https://education.ky.gov/curriculum/CSH/data/Pages/Youth-Risk-Behavior-Survey-(YRBS).aspx
- Kentucky Profiles webpage: https://education.ky.gov/curriculum/CSH/data/Pages/School-Health-Profiles.aspx
The Kentucky Incentives for Prevention Survey

Teresa McGeeney, Epidemiologist
REACH Evaluation
Health for a Change Webinar Series
December 6, 2017
What is the KIP Survey?

- Anonymous school-based behavioral health survey
- Every other year, even numbered years
- Middle & high school students
What is the KIP Survey?

- Every school district invited, participation is voluntary
- No cost to the district
- In 2016, 149/173 school districts
  - NOT Jefferson, Fayette, or Warren Counties (largely a rural sample)
- Every 6th, 8th, 10th, 12th grader in every participating school district (a CENSUS, not a sample)
- Total of 111,700 students
Measures

• Alcohol, tobacco, and other drugs (ATOD)
  • In 2014, added different types of Rx drugs, heroin, e-cigarettes, synthetic marijuana

• 12-month and 30-day use

• Related risk factors
  • Perceived risk, perceived parental/peer/personal disapproval
Measures

• Bullying, cyberbullying, peer victimization
• Other risk behaviors (e.g. fights at school, suspension)
• Mental health & suicidal thoughts/behaviors
Survey Results

• District reports
• Regional reports
• Statewide trends reports
• Data dashboard & visualizer
Alcohol

30 Day Alcohol Usage

Kentucky

Question 26b - On how many occasions (if any) have you had alcoholic beverages (beer, wine, or hard liquor) to drink - more than just a few sips - in the past 30 days?

Percent that answered at least 1 occasion

<table>
<thead>
<tr>
<th>Grade 6</th>
<th>Grade 8</th>
<th>Grade 10</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>2016</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

KIP SURVEY
Alcohol

Grade 10 - Alcohol (more than just a few sips)
30-Day Use, 2016

(% responding that they had used the substance one or more times within the past 30 days)

PERCENTAGE OF 10TH GRADERS, 2016
Min: 15.0% (CUMBERLAND RIVER); Max: 24.1% (PENNYROYAL)

NON-PARTICIPATING DISTRICTS BY REGION: FOUR RIVERS (Calloway County, Murray Independent), PENNYROYAL (Dawson Springs Independent), LIFESKILLS (Bowling Green Independent, Warren County), COMMUNICARE (Meade County), CENTERSTONE (Anchorage Independent, Eminence Independent, Jefferson County), NORTHKEY (Beechwood Independent, Bellevue Independent, Kenton County, Southside Independent), PATHWAYS (Ashland Independent, Morgan County), MOUNTAIN (Martin County, Paintsville Independent), CUMBERLAND RIVER (East Bernstadt Independent, Laurel County), BLUEGRASS (Fayette County)

Data are classified using Natural Breaks. Natural Breaks minimize each class's average deviation from the class mean, while maximizing each class's deviation from the means of the other groups.

10—KIP 2016 State and Regional Report
Regional Trends—Alcohol, 30-Day Use by 10th Graders, 2004-2016
(\% responding that they had used the substance one or more times within the past 30 days)
Past Year Cigarette Usage

Kentucky

Question 29a - On how many occasions (if any) have you smoked cigarettes in the past 12 months?

Percent that answered at least 1 occasion

<table>
<thead>
<tr>
<th>Grade 6</th>
<th>Grade 8</th>
<th>Grade 10</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Percent

--- | --- | --- | --- | --- | ---|
|     |     |     |     |     |     |

Note: Effective with the 2014 version of the KIP Survey, to maintain consistency with all other past-year substance use questions, the wording of this question was changed to address number of occasions rather than frequency.
Cigarettes

Grade 10 - Cigarettes, 30-Day Use, 2016

(% responding that they had smoked one or more times within the past 30 days)

PERCENTAGE OF 10TH GRADERS, 2016
Min: 9.7% (CENTERSTONE); Max: 16.5% (KENTUCKY RIVER)

NON-PARTICIPATING DISTRICTS BY REGION: FOUR RIVERS (Calloway County, Murray Independent), PENNYROYAL (Dawson Springs Independent), LIFESKILLS (Bowling Green Independent, Warren County), COMMUNICARE (Meade County), CENTERSTONE (Anchorage Independent, Eminence Independent, Jefferson County), NORTHEAST (Beechwood Independent, Bullseye Independent, Hart County, Southside Independent), PATHWAYS (Ashland Independent, Morgan County), MOUNTAIN (Martin County, Paintsville Independent), CUMBERLAND RIVER (Erlanger Independent, Laurel County), BLUEGRASS (Fayette County)

Data are classified using Natural Breaks. Natural Breaks minimize each class's average deviation from the class mean, while maximizing each class's deviation from the means of the other groups.

1d—KIP 2016 State and Regional Report
Cigarettes
30 Day Heroin Usage

Kentucky

Question 43b - On how many occasions (if any) in the past 30 days have you used heroin ("smack," "junk," or "China White")?

<table>
<thead>
<tr>
<th>Grade</th>
<th>2014</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade 6</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>Grade 8</td>
<td>0.4</td>
<td>0.2</td>
</tr>
<tr>
<td>Grade 10</td>
<td>0.5</td>
<td>0.3</td>
</tr>
<tr>
<td>Grade 12</td>
<td>0.6</td>
<td>0.4</td>
</tr>
</tbody>
</table>
Past Year Bullying at School 2013-2016

U.S. and KY State Trends for 10th graders*

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- **U.S. (Youth Risk Behavior Surveillance System)**
- **Kentucky**
Past Year Cyberbullying 2013-2016
U.S. and KY State Trends for 10th graders*

- **U.S.** (Youth Risk Behavior Surveillance System)
- **Kentucky**

- 2013: 14.5%
- 2014: 16.7%
- 2015: 16.6%
- 2016: 18.0%
Serious Psychological Distress

30-Day Serious Psychological Distress 2012-2016
KY State Trend for 10th graders*

- 2012: 17.3%
- 2014: 18.0%
- 2016: 20.6%
Past Year Suicide Attempt 2013-2016
*U.S. and KY State Trends for 10th graders*

- **U.S.** (Youth Risk Behavior Surveillance System)
- **Kentucky**
Carried a Handgun, 2004-2016
KY State Trend for 10th graders*

Carried a Handgun
More data

- KIP Data Dashboard

- KIP Data Visualizer

- KIP resources on REACH’s website
Questions?

Teresa McGeeney
Epidemiologist

teresa@reacheval.com

502.585.1911
Kentucky KIDS COUNT Project
www.kentuckyhealthfacts.org/Resources.aspx

Resources

Kentucky Health Facts is sponsored by the Foundation for a Healthy Kentucky. The aim of this website, begun as part of the Foundation’s Local Data for Local Action initiative, is to provide ready access to key health data for Kentucky communities. Our hope is that communities will use this data to identify local needs, to motivate change, to guide planning efforts, and to take meaningful, positive action toward improved health.

This philosophy of Local Data for Local Action is best expressed by the words of Arthur Ashe,

"Start where you are. Use what you have. Do what you can."

START WHERE YOU ARE.

In order to "start where you are," health advocates and decision-makers must first identify where that is. Kentucky Health Facts is designed to help communities with that process. Additional regional, national and Kentucky-specific data is available through the following organizations.

DEMOGRAPHIC INFORMATION
- Kentucky State Data Center
- U.S. Census Bureau
- ISK Center for Rural Health - Madisonville County Profiles

SOCIAL AND BEHAVIORAL HEALTH INDICATORS
- CDC's Behavioral Risk Factor Surveillance System (state and national data)
- Kentucky BRFSS Program (state and ABI data)
- Kentucky BRFSS Program - Adult Health Experiences Data Brief
- Kentucky BRFSS Program - 2015 Adolescent Experiences Data Brief
- Kentucky's Data Warehouse for Substance Abuse Prevention
- Kentucky’s Minority Health Status Reports
- U.S. Department of Justice, Bureau of Justice Statistics
- HRSA’s Your Food Environment Atlas
- Walk Score: Walkability Index

HEALTH OUTCOMES
- Kentucky Cancer Registry
- Kentucky Department for Public Health: Surveillance and Health Data
- Kentucky Safety and Prevention Alignment Network
- Kentucky Injury Prevention and Research Center
- Kentucky Institute for Mobility: The Health of Kentucky: A County Assessment - 2007 Edition
HEALTH OUTCOMES

- Kentucky Cancer Registry
- Kentucky Department for Public Health: Surveillance and Health Data
- Kentucky Safety and Prevention Alignment Network
- Kentucky Injury Prevention and Research Center
- Kentucky Institute of Medicine, The Health of Kentucky: A County Assessment, 2001
Kentucky Public Health Data Resource Guide 2015

This guide includes a variety of statewide health surveys as well as other Kentucky-specific surveillance systems and registries. The information provided on each data source includes the types of data collected as well as the strengths and limitations of each data source. Contact information is provided for every source and most contain web links for easy access to available data.

The Public Health Data Resource Guide is a valuable resource for conducting public health research, monitoring public health goals or objectives, evaluating initiatives or exploring Kentucky-related data sources.

Download the entire document
Thank you!

Contact

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Post-event Survey
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