

"IT PAYS TO ASK...IT PAYS TO KNOW"

Enhancing Your Data IQ: Advanced Techniques to Help Tell Your Prevention Story

Presented by:

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PA Youth Survey
Webinar Series

Webinar #2
9/16/2016



pennsylvania
DEPARTMENT OF EDUCATION



pennsylvania
DEPARTMENT OF DRUG AND
ALCOHOL PROGRAMS



pennsylvania
COMMISSION ON CRIME
AND DELINQUENCY

PAYS Webinar Schedule



- September 16th Enhancing Your Data Analysis IQ:
Advanced Techniques to Help Tell
Your Prevention Story
- September 23rd 2015 PAYS State Report: Trends and
Highlights
- September 30th Fighting the Opioid Epidemic
through Prevention

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Topics Covered Today



- Crosstabs Online Tool
- Cut Points

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Session Objectives

- ✓ Participants will understand and be able to explain the PAYS crosstabs feature
- ✓ Participants will recognize and understand cut-point methodology

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Before you can tell your story using outcomes...

- 1) Need to completely understand your data, including its nuances
- 2) Need to understand all of the tools available to help you tell your best story

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Mental Set

Long Division

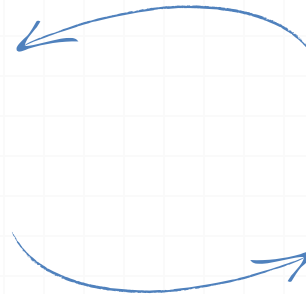
$$\begin{array}{r} 37 \overline{) 85434} \\ \underline{74000} 2000x \\ 11434 200x \\ \underline{7400} 100x \\ 4034 8x \\ \underline{3700} 1x \\ 334 \\ \underline{296} \\ 38 \\ \underline{37} \\ 1 \end{array} = 2309$$

$\Rightarrow 2309 r1$

37=1x
74=2x
148=4x
296=8x

See calculator for step
by step instructions.
www.doubledivision.org

Calculator



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Crosstabs Online Tool

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Crosstab Online Tool

- Allows you to examine responses to one variable on the PAYS relative to responses on a second item.

How to Use
Crosstabs

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How to Access the Crosstabs Feature?

- 1) Visit www.bach-harrison.com/payswebtool/
- 2) Under the **Viewing Data** heading, click **Getting Started**.
- 3) Under the **Crosstabs** heading, click **Crosstabs**.

Crosstabs Web Tool

The screenshot shows a web browser window with the URL `bach-harrison.com`. The page header features three logos: Pennsylvania Department of Drug and Alcohol Programs, Pennsylvania Commission on Crime and Delinquency, and Pennsylvania Department of Education. A navigation bar includes links for Home, Getting Started, Categories, Variables, Crosstabs, Data Source, Prevention and Data, Resources, and Contact. The main heading is "Pennsylvania Youth Survey Web Tool". Below it, the "Crosstabs" section contains several dropdown menus: "State or County" (set to Pennsylvania), "Question 1" and "Question 2" (both set to "- Please Select a Question -"), "Grade" (set to All), and "Gender" (set to Both). A blue-bordered button labeled "How to Use Crosstabs" is positioned to the right of the State or County dropdown. At the bottom of the form, there are links for "Note about questions" and "PAYS Question Reference".

NOTE:

2015 PAYS data has been added to the web tool

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Crosstabs Example



[Getting Started](#) | [Categories](#) | [Variables](#) | [Crosstabs](#) | [Data Source](#) | [Prevention and Data](#) | [Resources](#) | [Contact Us](#)

Pennsylvania Youth Survey Web Tool

Crosstabs

State or County:

[How to Use Crosstabs](#)

Question 1:

Question 2:

Grade:

Gender:

[Note about questions](#)

[PAYS Question Reference](#)

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Crosstabs Example

Question 2

State Crosstab Percentages (PAYS 2015)

Grade: All, Gender: Both		How many times in the past 30 days have you had beer, wine, or hard liquor?							Total
		0 Occasions	1-2 Occasions	3-5 Occasions	6-9 Occasions	10-19 Occasions	20-39 Occasions	40+ Occasions	
How wrong do your parents feel it would be for you to: Drink beer, wine or hard liquor (for example, vodka, whiskey, or gin) regularly?	Not Wrong at All	2.7	4.4	9.2	10.4	14.2	20.2	29.8	3.6
	A Little Bit Wrong	3.4	16.8	23.9	28.6	38.0	37.9	17.6	6.7
	Wrong	14.5	33.4	35.4	35.3	30.2	27.3	21.2	18.1
	Very wrong	79.3	45.4	31.6	25.7	17.6	14.5	31.5	71.7
	Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Question 1

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Question???

So what does this crosstabs between the following two questions tell us?

- **B23d:** How wrong do your parents feel it would be for you to: Drink beer, wine or hard liquor regularly?
- **X10a:** How many times in the past 30 days have you, had beer, wine, or hard liquor?

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Crosstabs Example

State Crosstab Percentages (PAYS 2015)

Grade: All, Gender: Both		How many times in the past 30 days have you had beer, wine, or hard liquor?							Total
		0 Occasions	1-2 Occasions	3-5 Occasions	6-9 Occasions	10-19 Occasions	20-39 Occasions	40+ Occasions	
How wrong do your parents feel it would be for you to: Drink beer, wine or hard liquor (for example, vodka, whiskey, or gin) regularly?	Not Wrong at All	2.7	4.4	9.2	10.4	14.2	20.2	29.8	3.6
	A Little Bit Wrong	3.4	16.8	23.9	28.6	38.0	37.9	17.6	6.7
	Wrong	14.5	33.4	35.4	35.3	30.2	27.3	21.2	18.1
	Very wrong	79.3	45.4	31.6	25.7	17.6	14.5	31.5	71.7
	Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Only You Can Make It Meaningful!!!

- The **more wrong** parents feel it would be for their children to drink (*beer, wine, and/or hard liquor*) the **less likely** their children are to have consumed these substances at a high rate the past 30 days.

Conversely:

- Those parents who **do not feel** that drinking (*beer, wine, and/or hard liquor*) is wrong, are **more likely** to have children who drink at a higher rate during the past 30 days.

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Reflection Questions

- Please reflect on the following:
 1. What questions do you see value in “cross tabbing” based on your coalition’s prevention efforts?
 2. What benefits/contributions do you foresee the crosstabs feature providing your coalition in terms of PAYS analysis?
 3. How might the crosstabs feature help your coalition to better tell its story?

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Cut-Points

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Cut Point Methodology

- Based on the research done in Michael Arthur and colleagues (including Hawkins & Catalano) in 2007 on 84,663 students from 6 states
- In 2015, the cut points are based on 11 states:
 1. Pennsylvania
 2. Arizona
 3. Florida
 4. Iowa
 5. Louisiana
 6. Montana
 7. Nebraska
 8. New York
 9. Oklahoma
 10. Utah
 11. Washington

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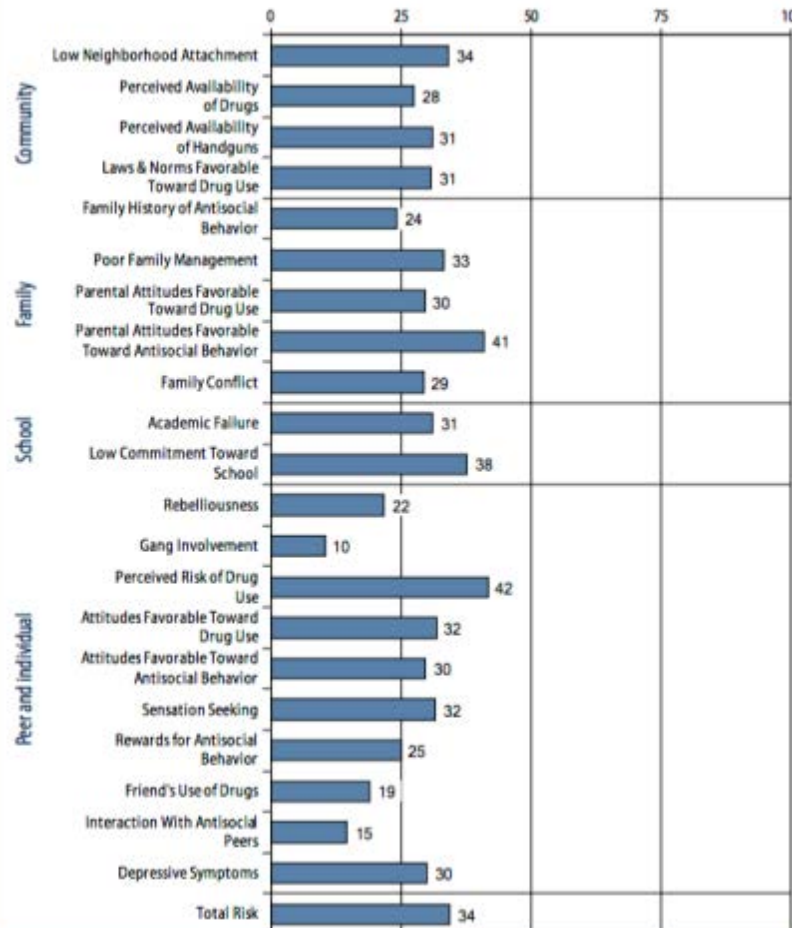
What Are Cut-Points?

- A cut-point helps to define the level of responses that are **at or above** a standard/normal level of risk, or conversely **at or below** a standard/normal level of protection.
- Rather than randomly determining whether a youth may be at risk or protected, a statistical analysis is completed that helps to determine at what point on any particular scale that the risk or protective factor **is outside the normal range**.

What Are Cut Points?

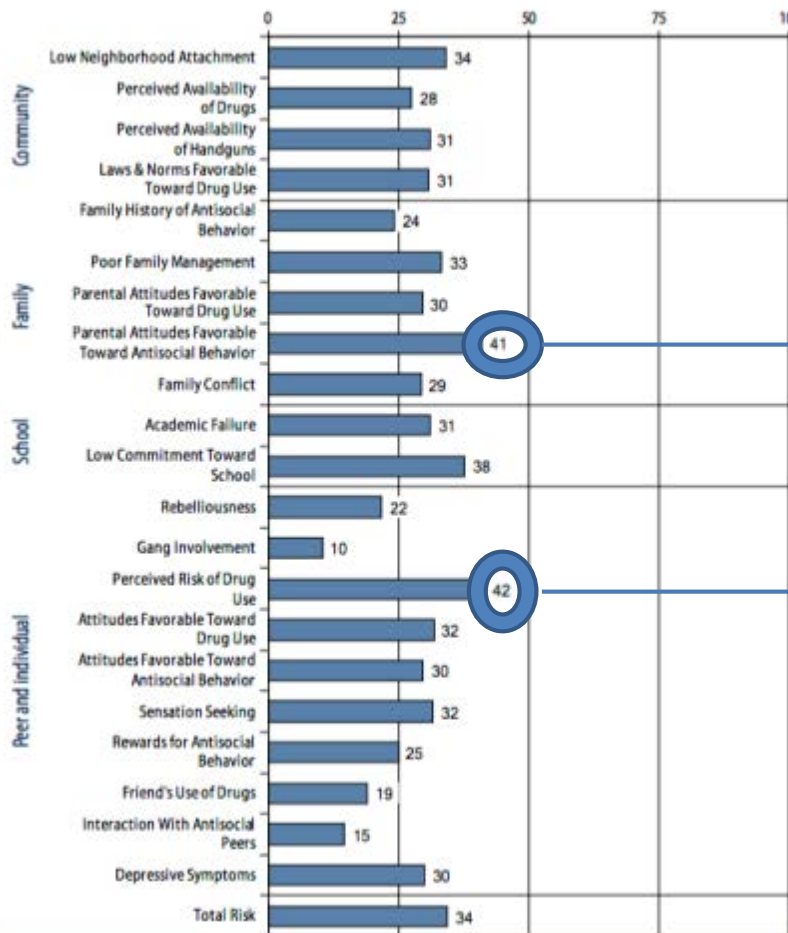
- When you are provided a % for a particular scale, you will know that this % represents the population of your youth that are either at greater risk or lower protection than the national cut-point level.
- Total Risk and Protection:
 - 6th and 8th grade **5 or more** risk factors
 - 10th and 12th grade **7 or more** risk factors
 - Total protection is **3 or more** protective factors regardless of grade

Risk Factors, Centre County 2015 Pennsylvania Youth Survey



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Risk Factors, Centre County 2015 Pennsylvania Youth Survey



If you have a 41 on “parental attitudes favorable towards drug use,” that means:

- 41% of students are at risk for problem behaviors associated with poor family management

If you have a 42 on “perceived risk of drug use,” that means:

- 42% of students are at risk for problem behaviors associated with perceived risk of drug use

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Want More Information on Cut-Points?

1. Pennsylvania Youth Survey
 - pp. 90 *“Understanding Cut Points”*
2. Bach Harrison Web Tool:
 - Risk and Protective Factor Information *(Scroll half way down the page to “Understand Cut-Points”)*
3. Arthur, et. al. (2007). *Measuring risk and protection in communities using the Communities That Care Youth Survey.*

Your PAYS Toolbox

- Visit www.PAYS.pa.gov for your PAYS Toolbox:
 - Statewide Summary Report
 - County-Level Reports *(for 55 counties)*
 - PAYS User Guide and Worksheets
 - PAYS Online Data Analysis Tool
 - PAYS Survey Instrument available
 - Fact Sheets about PAYS for various audiences
 - PAYS FAQ
 - And other great information!

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How can you best analyze your PAYS data?

The Pennsylvania Youth Survey (PAYS) 2015

User Guide and Worksheets for School Professionals

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www.episcenter.org/paysguide

The EPISCenter represents a collaborative partnership between the Pennsylvania Commission on Crime and Delinquency (PCCD), and the Prevention Research Center, College of Health and Human Development, Penn State University. The EPISCenter is funded by PCCD and the Department of Public Welfare. This resource was developed by the EPISCenter through PCCD grant VP-ST-24368.



- Visit www.PAYS.pa.gov to access your PAYS Toolbox
- Download and use the PAYS Guide & Worksheets to analyze your data
- Order special report for specific data sets
- Reach out to local “experts” from your SCA, coalitions, school board, etc...
- Reach out to PCCD & the EPISCenter experts for assistance

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Let's Answer Your Questions!

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Have More Questions? We've got answers!



The screenshot shows the EPISCenter website. At the top left is the EPISCenter logo with the tagline "Connecting research, policy, and real-world practice". Below this, it states "A collaborative partnership between:" followed by logos for the Pennsylvania Commission on Crime and Delinquency and the Pennsylvania Department of Human Services. A navigation menu has three tabs: "About Us", "PA Youth Survey", and "Communities That Care". Under "PA Youth Survey", there are two options: "PAYS How-to Guide & Workbook" and "Submit a Question". The "Submit a Question" link is circled in red with a hand cursor icon over it. Below the navigation is a large heading "Get the most out of your" and a footer with logos for the Pennsylvania Department of Education, Pennsylvania Department of Drug and Alcohol Programs, and Pennsylvania Commission on Crime and Delinquency.

1. Visit www.episcenter.psu.edu
 2. Click the **PA Youth Survey** tab.
 3. Select **Submit a Question**.
- Your question will go directly to EPISCenter staff!

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In Conclusion.....

PAYS Webinar Schedule Reminder



- September 23rd The PAYS State Report
- September 30th Fighting the Opioid Epidemic through Prevention

*The recorded PAYS Webinar Series will be available at
www.EPISCenter.psu.edu after the last webinar on Sept 30th.
Be sure to check them out!*

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