How to do a Question by Question (QxQ) Analysis on the Healthy Youth Survey

What is a Q x Q Analysis?

This tool found on the <u>askhys.net</u> website, allows you to compare the results of two questions (variables) to see how they relate to each other. When reviewing the results, it is important to note that while it may look like the two variables are in some way related, it is inappropriate to make statements pertaining to causation.

For example, if students who report eating breakfast also report that they consume more fruits and vegetables than students who don't eat breakfast, it does not mean that eating breakfast causes you to eat more fruits and vegetables or vice versa.

How do I do a Q x Q Analysis?

Go to <u>www.askhys.net/Analyzer</u>, which will automatically bring you to the **Instructions** page.

He	ealthy	Youth S	urvey		6	Ð.	
*	Home	Survey Results	Press Releases	2020 Survey Process	Contact	About	Log On
 Instruction 	ns 📔 🖬 Al	nalysis Parameters	🛛 🙀 Query Builder				
Welcome also cross process:	to the AskHY s-tabulate two	YS Q x Q tool! This to o variables to look at	ol allows you to gen their interaction with	erate a results table for any each other. The instructions	question in the s below explain t	survey. You the two-tab	can
1.	Analysis par	ameters:					
Ch	oose the initia	al analysis parameter	s for your analysis (S	Survey Year, Gender, Grade	, and Location)		
No Bui	te that chang ilder page be	ing the Survey Year o cause:	or Grade on the Anal	ysis Topic page will reset the	e list of variables	s on the Que	ery
	 Survey qui 	lestions change from	year to year.				
	6th Grade	ers take a different su	rvey Form with differ	ent questions than 8th, 10th	and 12th grade	ers.	
Se it w	e the <u>HYS Da</u> /as asked on.	ata Dictionary and Cro	osswalk (XLS) to find	l out what year a question w	/as asked and w	/hich survey	Form
2. Q you cur pre	Query Builde a pick two var rrently highlig esented in a ta	er: Choose your varia riables, drag one to th hted variable in the D able. You can clear al	ble or variables of in the Row box and the escription box. After I variables in the box	terest. If you choose one va other to the Column box. Yo choosing your variable(s), o tes by clicking Reset.	ariable, drag it to u can see a des click Submit. The	the Row bo cription of a e results will	x. If ny be
*	Training Vio	deos: What is the o	QxQ? Interpreting	QxQ Results. Crosstab Lir	mitations.		
					Continue to A	Analysis Par	ameters

There are instructional videos posted at the bottom of this page that you can watch.



Washington Office of Superintendent of **PUBLIC INSTRUCTION**

From the **Instructions** page, click on the **Analysis Parameters** tab or **Continue to Analysis Parameters** at the bottom.

Hee	lthy	Youth S	urvey			20	20
**	Home	Survey Results	Press Releases	2020 Survey Proce	ss Contact	About	Log On
 Instructions 	Ar	halysis Parameters	🛛 🐺 Query Builder				
Choose initi	al analys	is variables					
Survey Year	2018 🗸	Gender Both	Grade 12 V				
Location							
LOGalion	-		\bigcirc 2				

On the Analysis Parameters page, you will select the parameters you want to look at;

- **Survey Year** (2002-2018)
- Gender (Male, Female, Both)
- Grade (6,8,10,12, All)
- Location (State, ESD, County) which is available for all to see; or (School District or School) if you have permission to view and have signed into the site. To learn more about how to access specific data, view this <u>document</u>. You can only view one location at a time.

*** Please note that if you do not proactively make a selection from each category, it will default to:

- 2018 Survey
- Both Genders
- 12th Grade
- State of Washington

Once you have finished picking your parameters, click on the **Query Builder** tab or **Continue to Query Builder** at the bottom of the page.

The	althy	/ Youth S	urvey			Z	
87	Home	Survey Results	Press Releases	2020 Survey Process	Contact	About	Log Or
Instruction	-	vialysis Parameters	R Query Builder				
Choose in	itial analy	sis variables					
August Mars	- 0100 -	Gender Both	Grade 10 +				

On the **Query Builder** page, you will select the data categories that you would like to look at, by clicking on the dropdown menu.

Notice, that the tool shows you the analysis you have selected. If what is listed on the screen is incorrect, go back to the **Analysis Parameters** tab and make the correct selection.

🕈 He	althy	Youth §	Survey			
2	Home	Survey Results	Press Releases	2020 Survey Process	Contact About	Log C
Instruction	s I II A	nalysis Parameters	🖉 Query Builde			
variable s	election					
Select! a d	ata categor	ry, then drag and dr	op desired variables i	nto the desired boxes below.		
Submit	Reset					
Show E	nrollment	_				
Select a d	ata categor	V				
Demogra	priics		•	Selected Analysis: 10th gra	ade in WA for 2018	
Demogra	phics		<u>^</u>			
Age						
Gend	er					-
Sexua	al Orientatio	m				
Gend	er Identity					- 1
Race/	Ethnicity					
Paren	tal Educatio	on	ny			-
Abser	nteeism					
Migra	nt Status			Column Variables		
School	allunch			Drop colum	n variables here	
Schoo	Transition					
schoo	or ransition	1				
Living	Situation					
Sleep						

Once you pick a category, you can see the different questions that are asked in that category. When you click on the question, it will show you the answer options in the **Description** box.

ariable Selection		
select! a data category, then drag and drop de	sired variables in	to the desired boxes below.
Submit Reset		
Show Enrollment		
Select a data category		
Nutrition	•	Selected Analysis: 10th grade in WA for 2018
Available Variables		
 [H08] Eating Dinner with Family 		
 [H118] Drinking Sweetened Drinks 		
 [H07] Fruit and Vegetable Consumption 		
 [H81] Eating Snack Foods at School 		
 [H79] Usual Source of Chips or Snacks at \$ 	School	
 [H84] Breakfast Eating 		
 [H82] Drinking Sweetened Drinks at School 	1	
 [H83] Usual Source of Sweetened Drinks a 	t School	
Row Variables		Column Variables
Drop row variables here	5	Drop column variables here
21001101110100100		Drop column famables here
	_	
Description		
[H07] Fruit and Vegetable Consumption		
Number of times fruits and vegetables were	a eaten	Table Variables
per day		Drop table variables here (optional)
Collapsed		brop table variables fiere (optional)
- Surveyed		
5 00 0000		

You can either look at the results as "Collapsed" which will show them broken down into just a few categories (as shown above), or you can look at the answers as "Surveyed" which will show all the answer options (see below).

• Description	
Number of times fruits and vegetables were eaten	•
per day	
 Collapsed Surveyed 	
a. Less than 1	
b. 1 to less than 3	
c. 3 to less than 5	
a. 5 or more	•

You will need to decide which way you would like to look at the answers before you submit the query. Click on the corresponding button to choose your view.

Once you have decided how you want to view the answers, you can drag one variable into the **Row Variables** section and one into the **Column Variables**.

***When choosing the question you to put as the "Row Variable", you want to choose the group that you are interested in. or "Among X group, how many of them also do Y." In this example, we are interested in the students who eat breakfast (so that goes in the row), how many of them eat fruits and vegetables (column variable).

The variables you chose do not need to be from the same category, although in this example they are.

Submit Reset	
Show Enrollment	
ielect a data category	Selected Analysis: 10th grade in WA for 2018
Available Variables	
 [H08] Eating Dinner with Family 	
 [H118] Drinking Sweetened Drinks 	
 [H81] Eating Snack Foods at School 	
 [H79] Usual Source of Chips or Snacks at Source 	chool
• [H82] Drinking Sweetened Drinks at School	
• [H83] Usual Source of Sweetened Drinks at	School
Row Variables	Column Variables
 Row Variables [H84] Breakfast Eating 	Column Variables [H07] Fruit and Vegetable Consumption
Row Variables [H84] Breakfast Eating Description	Column Variables III
Row Variables [H84] Breakfast Eating Description [H84] Breakfast Eating	Column Variables [H07] Fruit and Vegetable Consumption
Row Variables [H84] Breakfast Eating Description [H84] Breakfast Eating Did you eat breakfast today?	Column Variables [H07] Fruit and Vegetable Consumption Table Variables
Row Variables [H84] Breakfast Eating Description [H84] Breakfast Eating Did you eat breakfast today?	Column Variables I (H07) Fruit and Vegetable Consumption Table Variables Drop table variables here (optional)
Row Variables [H84] Breakfast Eating Description [H84] Breakfast Eating Did you eat breakfast today? a. Yes b. No	Column Variables [H07] Fruit and Vegetable Consumption Table Variables Drop table variables here (optional)
Row Variables [H84] Breakfast Eating Description [H84] Breakfast Eating Did you eat breakfast today? a. Yes b. No	Column Variables I H07] Fruit and Vegetable Consumption Table Variables Drop table variables here (optional)

*** In order to cross tab two questions, the questions need to be on the same survey form. View the HYS Data Dictionary and Crosswalk (XLS) to find out what form a question was on as well as to see what year the question was asked. Some of the questions on the survey change from year to year.

to view your answers. Results are broken With variables in place, you can now hit down by grade level.

Washington State Healthy Youth Survey Online Analysis - 2018

Statewide - Grade 10

Breakfast Eating and Fruit and Vegetable Consumption

		Fruit and Vegetable Consumption			
		less than 5	5 or more	Total	
Breakfast Eating	No	85.8% ± 2.2% 1,342	14.2% ± 2.2% 223	100.0% 1,565	
	Yes	80.1% ± 1.8% 1,782	19.9% ± 1.8% 442	100.0% 2,224	

Interpretation: Among 10th grade students who reported eating breakfast, about 20% reporting eating 5+ servings of fruits and vegetables (FV) in a day. About 14% students who reported not eating breakfast reported eating 5+ servings of FV in a day.

If you want to do another query, go back to the **Query Builder** tab and click Reset .

Clicking reset will keep the analysis parameters you selected but will reset the questions.

If you want to change your analysis parameters, go back to the **Analysis Parameters** tab.

*** Note, that if you change the Survey Year or Grade on the **Analysis Parameter** page, it will reset the list of questions (variables) on the **Query Builder** page because;

- Survey questions change from year to year.
- 6th Graders take a different survey Form (C) than 8th, 10th & 12th graders who take Form A&B.

View the HYS <u>Data Dictionary and Crosswalk (XLS)</u> to find out what year a question was asked as well as to see what Form it is on.

Limitations to the QxQ :

- The two questions you want to cross-tab must be on the same Form.
- If there are less than 10 responses in a single cell, an error message will pop-up and you will not be able to do the analysis. If this happens when you are trying to do the analysis with the "surveyed answers", try it with "collapsed answers".
- Always remember you are looking at potential associations between the questions and not causation.