AskHYS QxQ Online Data Query Instructions

Quick Crosstab Instructions

1. Select a survey year and geography under Filter Variables.
2. Select a survey question for your Row Variable.
3. To run a crosstab, select another survey question for your Column Variable.
4. Hit the Get Report button.

Contents

General QxQ Information

The QxQ is available from 2010 to the most recent year of survey results. The most recent year of results is the default.

QxQ results are available for survey questions asked in a specific HYS year. Results by geographies are available depending on whether that geography participated and if basic reporting requirements for HYS were met (a minimum number of 15 participants per grade level and 40% or higher response rate). In general, if results are available on the Frequency Report page (https://www.askhys.net/SurveyResults/FrequencyReports), then results will be available on the QxQ.

For details about HYS participation, see the Past Participation page: https://www.askhys.net/SurveyResults/PastParticipation.

State, ESD, and County geographies are available to the public. School buildings and districts are available to those with login access. If you are logged into AskHYS, the schools and districts that you have permission to view in the OSPI EDS system will show up in the dropdown menu. Information about logins is available here: https://www.askhys.net/Login.

For crosstabs, there is a minimum cell size of 5 required to get state-level results and a minimum cell size of 10 required to get results for any other geography. See the Crosstab Limitations section on page 9 for more details.

Detailed Crosstab Instructions

Steps 1 and 2: Select Survey Year and Geography as Filter Variables

Click on the Year dropdown menu to select a year.

Click the Geography radio button to select either State, County, ESD, or District/School (if logged in for district/school access) from the dropdown menu. Then select the specific geography from the dropdown menu.
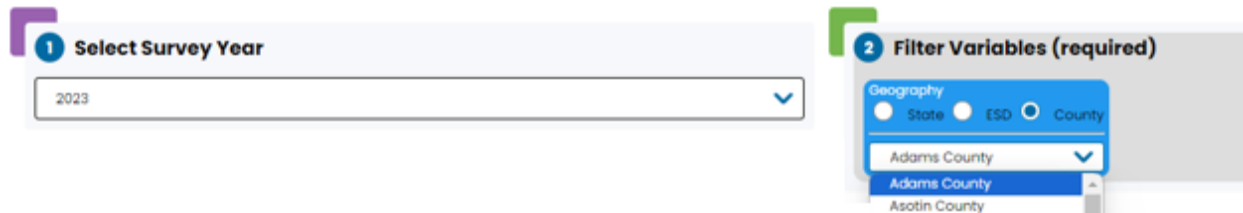
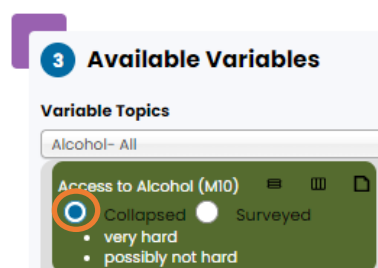**Step 3: Finding and Selecting Variables**

Click on the Variable Topics in the Available Variables box and scroll to find the topic or subtopic you're interested in. Click on the Category or Subtopic to see the list of associated survey questions.

You can also type a keyword into the Variable Topic search box to help you find the question you're looking for. Survey questions in Variable Topics are arranged by Categories, Subtopics, and Titles. If you're having trouble finding a specific question in the dropdown menu, you can use the Crosswalk tab in the HYS Data Dictionary and Crosswalk to find the Category, Subtopic, or Title that is listed in the QxQ dropdown selection. The HYS Data Dictionary and Crosswalk can be found on the Data Resources page: https://www.askhys.net/Resources/Data. It also includes an individual tab of the survey questions asked each year and includes details about variable names, which grades were asked the questions, and which survey forms the questions were on.
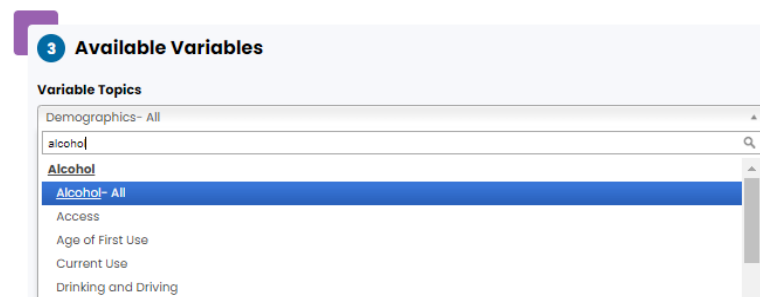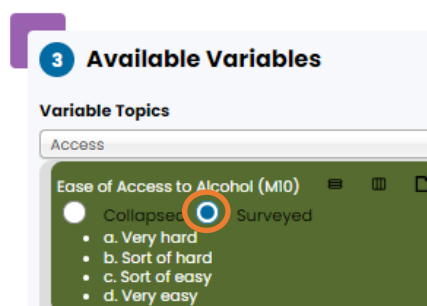

Hover over the question you're interested in, and it will show the response options for the question. Some questions have collapsed response options. To see all of the response options, click the Surveyed radio button.

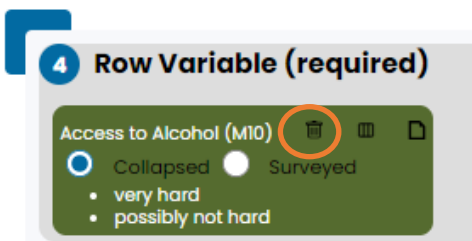Collapsed responses: All survey responses:

There are two versions of the survey – one for Secondary students (grades 8, 10, and 12) and a shorter version for Elementary students (grade 6). Some questions are only asked on one version of the survey. The list of variables in the dropdown menu are color coded – green for questions on both surveys, brown for questions only on the Elementary survey, and teal for questions only on the Secondary survey. Prior to 2023, there were three versions of the survey (see the Crosstab Limitations section on page 8 for more details).

To select a variable for analysis, drag the question over to the Row Variable box. Or you can click on the Row icon next to the variable title:

If you want to remove the variable from the Row Variable box, click on the Delete icon or drag the variable out of the Row Variable box.


Step 4: Run Results

Run a simple frequency result for one survey question

Now that you have a question in the Row Variable box, you can also use the radio buttons to choose to choose all of the response options (Surveyed) or collapsed response options.

Click on the Get Report button and a new page will pop up with tables of your results for each grade level available. If results are not available, a reason for suppression will be provided.

Run a crosstab of two survey questions

To run a crosstab, go back to the Available Variables box and find the question you're interested in crossing. Select it and add the second question to the Column Variable box by either dragging it or clicking on the Column icon:
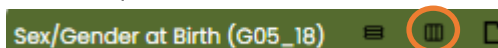
Note that if you select a question only asked on the Elementary survey for your Row Variable, the questions that are only asked on the Secondary survey will be greyed out because crosstabs cannot be run for questions on different survey forms.

Click on the Get Report button and a new page will pop up with tables of your results for each grade level available. If results are not available, a reason for suppression will be provided.

Run a Crosstab with a "Breakout" (Subpopulation)

Grade is a required variable for QxQ analysis. By default, Grade is included as the Breakout variable so that any results you run will be presented in separate tables by grade. You can also run results by other "breakouts", or subpopulations.

To run a crosstab by a subpopulation, move the Grade variable up to the Filter Variables box, either by dragging it or clicking on the Filter icon:
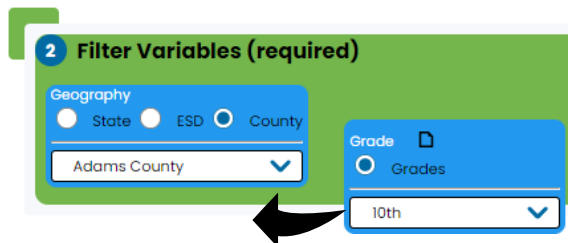
Select the grade that you want to look at (you can only select one grade). Then, go back to the Available Variables to select the variable that you'd like to include as a breakout and drag it to the Breakout Variable box or hit the Breakout icon:

Click on the Get Report button and a new page will pop up with tables of your results for each grade level available. If results are not available, a reason for suppression will be provided.
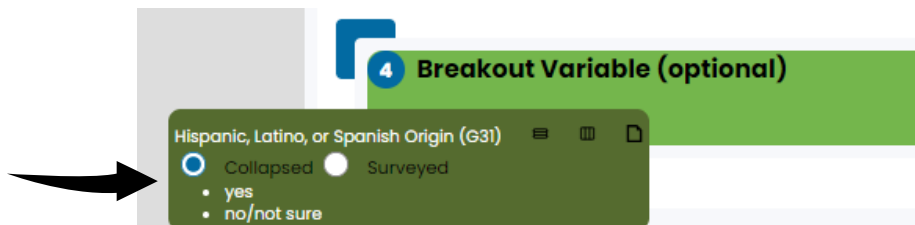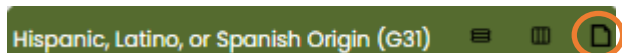
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Understanding Your Results

The QxQ produces results in rows. When running crosstabs, the Row Variable is always the dependent variable, and the Column Variable is always independent. The Filter Variable determines the geography for your results (and can be used to limit to a single grade) and the Breakout Variable will determine the tables that you get as results.

Example 1: Simple frequency result for one survey question

Selection:
Year: 2023; Filter: Geography: Adams County; Row Variable: Ease of Access to Alcohol (collapsed)
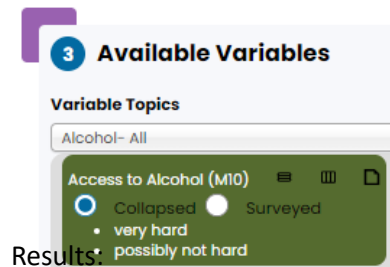
Results:

Results will include the survey year, the name of the geography, the grade level, and the variable title.

If results are suppressed, a reason will be provided.

Results will include the percentage of students who answered each response, along with the 95% confidence interval, and the number of respondents.

The question text and variable name are also included below.

Example 2: Crosstab result for 2 survey questions

If we are interested in youth who drink alcohol and we want to know if they also use marijuana, then we will select Current Alcohol Drinking as the Row Variable and select Current Marijuana Use as the Column variable.

Selection:
Year: 2023; Filter: Geography: Adams County; Row Variable: Current Alcohol Drinking (collapsed);
Column Variable: Current Marijuana Use (collapsed)

Results:

Washington State
Healthy Youth Survey Online Analysis - 2023

Adams County - Grade 10

Current Alcohol Drinking <u>and</u> Current Marijuana Use

		Current Marijuana Use		
		no days	any days	Total
Current Alcohol Drinking	**no days**	94.1% ± 2.8% 256	5.9% ± 2.8% 16	100.0% 272
	any days	54.5% ± 20.9% 12	45.5% ± 20.9% 10	100.0% 22
	Total	91.2% ± 3.3% 268	8.8% ± 3.3% 26	100.0% 294

Interpretation, among 10th graders in Adams County:

Current Marijuana Use was 5.9% among those who did **not** drink alcohol.

Current Marijuana Use was 45.5% among those who drank alcohol.

Variable questions:
• During the past 30 days, on how many days did you drink a glass, can or bottle of alcohol? [D20_23]
• During the past 30 days, on how many days did you use marijuana or hashish? [D21_16]

Cell contents:
• Percentage (row)
• 95% Confidence Interval
• # of Respondents

healthy youth SURVEY

If we are interested in youth who use marijuana and we want to know if they also drink alcohol, then we will select Current Marijuana Use as the Row Variable and select Current Alcohol Drinking as the Column variable.

Selection:
Year: 2023; Filter: Geography: Adams County; Row Variable: Current Marijuana Use (collapsed); Column Variable: Current Alcohol Drinking (collapsed)

Results:

Washington State
Healthy Youth Survey Online Analysis - 2023

Adams County - Grade 10

Current Marijuana Use <u>and</u> Current Alcohol Drinking

		Current Alcohol Drinking		
		no days	any days	Total
Current Marijuana Use	**no days**	95.5% ± 2.5% 256	4.5% ± 2.5% 12	100.0% 268
	any days	61.5% ± 18.8% 16	38.5% ± 18.8% 10	100.0% 26
	Total	92.5% ± 3.0% 272	7.5% ± 3.0% 22	100.0% 294

Interpretation, among 10th graders in Adams County:

Current Alcohol Drinking was 4.5% among those who did **not** use marijuana.

Current Alcohol Drinking was 38.5% among those who used marijuana.

Example 3: Crosstab result for a survey question by a demographic question

In this example, we're looking at about Ease of Access to Alcohol by Sex at Birth. We chose Sex at birth as the Row Variable because that is the group we want to see the Ease of Access results for. If you're running results by a demographic question, you almost always want to put the demographic question in the Row Variable box.

Selection:
Year: 2023; Filter: Geography: Adams County, Row Variable: Sex/Gender at Birth; Column Variable: Ease of Access to Alcohol (collapsed)

Results:

Washington State
Healthy Youth Survey Online Analysis - 2023

Adams County - Grade 8

Sex/Gender at Birth _and_ Ease of Access to Alcohol

		Ease of Access to Alcohol		
		very hard	**possibly not hard**	**Total**
Sex/Gender at Birth	**Female**	55.3% ± 11.3% 42	44.7% ± 11.3% 34	100.0% 76
	Male	71.9% ± 11.8% 41	28.1% ± 11.8% 16	100.0% 57
	Total	62.4% ± 8.3% 83	37.6% ± 8.3% 50	100.0% 133

Interpretation, among 8th graders in Adams County:

Among females, 55.3% reported it would be "very hard" to get alcohol if they wanted some.

Among males, 71.9% reported it would be "very hard" to get alcohol if they wanted some .

Variable questions:
• What sex were you assigned at birth? [G05_18]
• If you wanted to get some beer, wine, or hard liquor, how easy would it be for you to get some? [M10]

Cell contents:
• Percentage (row)
• 95% Confidence Interval
• # of Respondents

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Example 4: Crosstab result with subpopulation

You can also run a crosstab for a specific subpopulation for one specific grade level by moving Grade to the Filter Variable and adding a different Breakout Variable.

Selection:
Year: 2023; Filters: Geography: King County, Grade: 10th; Row Variable: Average Hours of Sleep (collapsed); Column Variable: Depression; Breakout Variable: Sex/Gender at Birth

Results:

Washington State
Healthy Youth Survey Online Analysis - 2023

King County - Grade 10

Average Hours of Sleep <u>and</u> Depression
by Sex/Gender at Birth

Sex/Gender at Birth - Female

		Depression		
		Yes	No	Total
Average Hours of Sleep	5 or less hours	48.0% ± 12.1% 48	52.0% ± 12.1% 52	100.0% 100
	6 or more hours	26.6% ± 6.4% 155	73.4% ± 6.4% 428	100.0% 583
	Total	29.7% ± 6.3% 203	70.3% ± 6.3% 480	100.0% 683

Sex/Gender at Birth - Male

		Depression		
		Yes	No	Total
Average Hours of Sleep	5 or less hours	38.3% ± 16.3% 23	61.7% ± 16.3% 37	100.0% 60
	6 or more hours	13.3% ± 3.6% 80	86.7% ± 3.6% 521	100.0% 601
	Total	15.6% ± 4.0% 103	84.4% ± 4.0% 558	100.0% 661

Interpretation, among 10th graders in King County:

Among females, depression was 48.0% among those who had 5 hours or less of sleep and depression was 26.6% among those who had 6 or more hours of sleep.

Interpretation, among 10th graders in King County:

Among males, depression was 38.3% among those who had 5 hours or less of sleep and depression was 13.3% among those who had 6 or more hours of sleep.

Variable questions:
• What sex were you assigned at birth? [G05_18]
• On an average school night how many hours do you sleep? [G16]
• During the past 12 months, did you ever feel so sad or hopeless almost every day for two weeks or more in a row that you stopped doing some usual activities? [H53]

Cell contents:
• Percentage (row)
• 95% Confidence Interval
• # of Respondents

Crosstab Limitations

The two main limitations when running crosstabs are due to the different survey forms and the minimum number of student responses required to produce results:
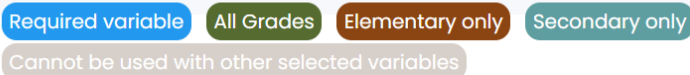
1. Survey Form Limitations
   a. 2023 had two survey forms – Elementary (grade 6) and Secondary (grades 8, 10, and 12)
   b. Prior to 2023, there were three survey forms – Form A (half of grades 8, 10, and 12), Form B (half of grades 8, 10, and 12), and Form C (grade 6)
   c. Some questions were optional, and some had exemptions
2. Minimum Number of Responses
   a. 10 per cell for local analysis (ESD, county, district, or school)
   b. 5 per cell for state analysis

Survey Form Limitations for 2023

For 2023, questions only asked on the Secondary survey (for 8th, 10th, and 12th graders) cannot be crossed with questions only asked on the Elementary survey (for 6th graders). Similarly, questions only on the Elementary survey cannot be crossed with questions only on the Secondary survey.

The QxQ has a color-coded Legend to identify which questions are asked of all grades (green), asked only of Elementary students (brown), and asked only of Secondary students (teal). If you select an Elementary only question for a Row Variable, the QxQ will not let you select a Secondary only question.

Survey Form Limitations from 2010 to 2021

Prior to 2023, some questions could not be used in crosstabs because they were on different survey forms for 8th, 10th, and 12th graders. For these prior years, the QxQ shows the legend and identifies the questions that were asked on Form C (Elementary) only (brown) and those only asked on Forms A or B (Secondary) only (teal). The QxQ does not identify whether questions were asked on Form A and/or B.

Detailed information about survey forms is available in the HYS Data Dictionary and Crosswalk on the Data Resources page: https://www.askhys.net/Resources/Data

If you were interested in looking at perceived risk from daily drinking, it's helpful to look at the Data Dictionary and Crosswalk to see which forms the question was asked on in a specific year. In 2021, perceived risk from daily drinking was asked on Forms A and C:

Variable Name	Item # Local Rpt	Item# Esurvey AE	Item# Esurvey BE	Item# Esurvey CE	Core Item	Tear-off	Risk Factor/ Comput	Data Value	Survey Question and Response Options
P04	I239	AE047d		CE052d			Risk46		How much do you think people risk harming themselves if they: Take one or two drinks of an alcoholic beverage nearly every day?
								1	a. No risk
								2	b. Slight risk
								3	c. Moderate risk
								4	d. Great risk
								5	e. Not sure

Since perceived risk from daily drinking is not on Form B, you won't be able to run crosstabs for it for any questions that are only on Form B. If you try to run a crosstab for surveys on different forms, you will get the following error:

Results are suppressed for the following reason:

Questions on different forms

Minimum Number of Responses & Cell Size

Running a crosstab produces a table that describes the joint distribution of the response options from the two questions. Each square of the table, or "cell", shows the number of respondents who gave a specific combination of responses.

Here is an example of a simple crosstab using the questions about current alcohol drinking and marijuana use and has no limitations:

1. No survey form limitations. The questions on Current Alcohol Drinking and Current Marijuana Use are both on the Elementary and Secondary survey forms for 2023. In previous years, both questions were on all three forms A, B, and C.
2. Meets minimum number of responses for both state (n=5) and local analysis (n=10).

		Current Marijuana Use		
		no days	any days	Total
Current Alcohol Drinking	no days	1 94.1% ± 2.8% 256	2 5.9% ± 2.8% 16	100.0% 272
	any days	3 54.5% ± 20.9% 12	4 45.5% ± 20.9% 10	100.0% 22
	Total	91.2% ± 3.3% 268	8.8% ± 3.3% 26	100.0% 294

Cells 1 and 2 include youth who reported NO days of Current Alcohol Drinking – a total of 272 respondents. Among those who did NOT drink, 256 did not use marijuana (Cell 1) and 16 DID use marijuana (Cell 2).

Cells 3 and 4 include youth who reported Current Alcohol Drinking on ANY days – a total of 22 respondents. Among those who DID drink, 12 did NOT use marijuana (Cell 3) and 10 DID use marijuana (Cell 4).

If you run a crosstab and the cell sizes (number of respondents) are too small, you will receive the following error:

> Results are suppressed for the following reason:
>
> Not enough surveys contained responses to all the selected variables to meet suppression restrictions

Tips for Running Crosstabs

The minimum cell size requirements can make it difficult to run crosstabs. While it can be frustrating, these requirements are necessary to ensure that there are enough respondents to protect the anonymity of the students who took the survey.

If you're unable to run crosstabs because of small cell size, here are a few options to consider trying:

1. Check the number of respondents for each of the variables and responses that you're trying to cross by running a single frequency result for each of the variables. Once you know which questions and/or response options have small numbers then you can modify your analysis.
2. Use the collapsed variables instead of including all the responses (surveyed).
3. Run the analysis at a higher level of geography. For example, if you're trying to run district-level results, see if you can run county or state-level results.
4. If you're running a group that was from a multi-select question like race or gender identity, try running for an individual race or gender instead of running them all. For example:
   - For 2023, instead of running "Race/Ethnicity (G06_23)" or "Race/Ethnicity (RACEETH)", try running one of the "AOIC" race variables, e.g., the "Asian or Asian American, AOCI (G06_23A)".
   - For 2021, instead of running "Race/Ethnicity (GO6)" or Race/Ethnicity (RACEETH)", try running one of the "Any" race variables, e.g., the "Asian or Asian American, Any (G06A)"