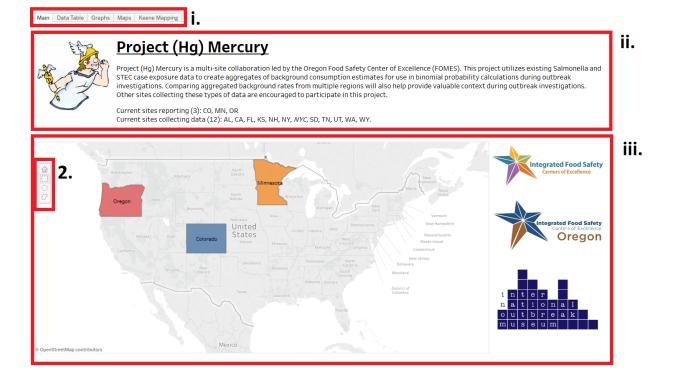
## **Project Mercury (Hg) - Tableau Viz: Instructions for use**

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## Main dashboard

- Navigate to the Project (Hg) Mercury Tableau Public Viz (may need to copy the following link into a web search bar): <u>https://public.tableau.com/profile/fomes#!/vizhome/ProjectHg/Main?publish=yes</u>
  - a. You will be brought to the Main dashboard, containing:
    - i. Navigation pane on the upper left
    - ii. Brief summary of Project (Hg) Mercury
    - iii. Interactive Map displaying active Project (Hg) Mercury sites
      - 1. Clicking on a state brings you to "Data Table" and filters the view by the selected state
      - 2. Multiple states can be selected using the Rectangle, Radio, and Lasso options
        - a. Other map options: *Zoom* (Scroll wheel), *Pan* (Shift + Drag), *Zoom Area* (Ctrl + Shift + Drag).



### Data Table dashboard

- Navigate to the "Data Table" dashboard by pressing the "Data Table" tab on the navigation pane OR by selecting the desired state(s) on the "Main" dashboard
  - a. The "Data Table" dashboard, and following dashboards will contain the relevant objects:
    - i. Title displaying the current Keene ID and State filter.
    - ii. Filter pane on the right
    - iii. Undo, redo, reset, download, and full-screen buttons on the bottom right

3 ocalExpDescrip <sup>2</sup>	a6 Keene ID and =	a1 State	Yes	<1	1_5	6_17	18_65	66+	Spring	Summer	Fall	Winter	AI_AN	Asian	Black	Pathogen ⊙ Salmonella
ny animals with cent diarrhea	2254 - contact with pet that had diarrhea	Colorado	4.7%	8.5%	2.6%	2.7%	5.2%	5.8%	5.9%	3.8%	4.2%	5.1%	0.0%	0.0%	0.0%	O STEC State
y dairy product	Null	Colorado	70.0%	23.6%	78.7%	78.5%	70.2%	70.8%	70.6%	70.1%	70.3%	66.9%	57.1%	58.6%	60.3%	<ul> <li>✓ (AII)</li> <li>✓ Colorado</li> <li>✓ Minnesota</li> </ul>
y ground beef	2442 - ground beef (home or away)	Colorado	53.7%	10.4%	50.6%	63.3%	56.6%	50.8%	54.1%	53.8%	55.2%	48.5%	37.5%	18.5%	54.7%	✓ Oregon
yone in household ndle raw beef	2354 - raw ground beef prepared in home	Colorado	44.4%	33.3%	51.5%	61.0%	38.0%	45.8%	40.0%	43.6%	48.1%	42.9%		33.3%	25.0%	Keene ID and Description (All)
yone in household ndle raw fish or s	Null	Colorado	16.0%	11.1%	13.2%	13.3%	15.8%	24.1%	17.5%	13.2%	18.2%	14.3%		14.3%	0.0%	
yone in household ndle raw poultry	Null	Colorado	41.0%	33.3%	51.6%	42.6%	39.8%	34.4%	38.7%	42.4%	43.6%	30.8%		50.0%	66.7%	
ples	404 - apples	Minnesota	39.7%	40.0%	60.3%	52.0%	34.4%	33.8%	34.0%	41.0%	46.5%	31.7%	40.0%	37.5%	37.1%	
paragus	343 - asparagus	Minnesota	7.2%	4.0%	3.4%	2.0%	8.1%	11.9%	11.1%	7.2%	4.8%	6.3%	10.0%	3.2%	0.0%	
ocado	401-avocado	Minnesota	18.5%	32.0%	14.0%	12.5%	22.4%	7.5%	21.0%	22.5%	12.9%	15.9%	10.0%	9.7%	6.1%	
nanas	425 - bananas	Minnesota	55.9%	56.0%	67.2%	53.1%	53.5%	57.4%	60.0%	52.9%	56.7%	55.6%	40.0%	56.3%	67.6%	
ef eaten out staurant, deli, et	Null	Colorado	33.1%	2.1%	24.3%	28.6%	41.0%	27.3%	31.4%	35.4%	35.6%	25.5%	28.6%	18.5%	30.8%	
ef or foods with ef in them	Null	Colorado	64.1%	13.8%	59.5%	71.3%	68.5%	63.5%	61.3%	65.2%	66.9%	58.3%	57.1%	41.4%	62.1%	
son or buffalo meat	724 - bison (buffalo) meat	Colorado	1.9%	0.0%	4.4%	0.0%	1.8%	1.6%	1.9%	1.9%	1.5%	0.0%		0.0%	0.0%	
ock cheese	289 - cheese sold as or cut from solid blocks	Minnesota	19.0%	8.0%	25.9%	8.2%	19.8%	22.1%	12.0%	22.5%	16.7%	25.4%	10.0%	0.0%	8.3%	
roccoli	334 - broccoli	Minnesota	28.9%	16.0%	34.5%	30.6%	28.7%	28.4%	28.0%	30.4%	25.4%	33.3%	20.0%	25.8%	29.4%	iii.

The data above only appear if the State and Keene ID and Description are checked to "(All)", and if the Pathogen Salmonella is selected.

## Data Extraction (from Data Table)

- 3. Although data can be extracted from all dashboards, "Data Table" is where data extraction will occur. The other dashboards are primarily for visualization.
  - a. The "Data Table" dashboard is similar to the Data Spec excel worksheet used to input site-specific aggregate data
  - b. The column headers are:
    - 1. Local exposure description
      - a. Site-specific local question language
    - 2. Keene ID and Description (Keene Code)
      - a. Unique exposure identifier and description, assigned centrally.
    - 3. State
    - 4. Aggregate measures

1.	2.	3.	4.					
a3_LocalExpDescrip	a6_Keene ID and Description	≟ a1_State	Yes	<1	1_5	6_17	16_65	66+

- c. Filter by a single Pathogen (Salmonella) and State (Colorado)
  - i. Uncheck "(All)" under Pathogen and State in the filter Pane
    - 1. Check "Salmonella" and "Colorado" respectively

**AND** filter the Keene ID by all milk exposures.

- ii. Click on the Keene ID dropdown on the filter pane.
- iii. Uncheck "(All)"
- iv. Type "milk" in the search bar
- v. Check the following exposures:
  - 1. 269 raw (unpasteurized) milk
  - 2. 270 pasteurized (regular) milk
  - 3. **932 any dairy product made from raw milk**

(None)

53

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$\checkmark$	269 -	raw	(unpasteurized)	milk
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✓ 270 - pasteurized (regular) milk

✓ 932 - any dairy product made from raw milk

milk

#### d. Your dashboard should look like this:

a3 LocalExpDescrip <sup>2</sup>	a6 Keene ID and = Description	a1 State	Yes	<1	1_5	6_17	18_65	66+	Spring	Summer	Fall
Nonpasteurized (raw) milk	269 - raw (unpasteurized) milk	Colorado	0.6%	0.9%	1.1%	0.7%	0.4%	1.1%	0.7%	0.6%	0.9%
Other products made from raw milk (Kief	932 - any dairy product made from raw milk	Colorado	1.9%	0.0%	2.3%	2.0%	2.0%	2.2%	1.4%	2.2%	2.1%
Pasteurized cow's or goat's milk	270 - pasteurized (regular) milk	Colorado	60.6%	10.5%	73.1%	80.0%	55.0%	61.9%	61.3%	60.8%	60.3%
			<								

Your percentages (%) may be different than above, as data is updated regularly.

- e. Generating a *crosstab* is the cleanest way to extract table data. To do so:
  - i. Press "Download" on the bottom right (note: it is a very small icon and you might have to scroll down the viz)
  - ii. Click on Crosstab (3rd option)
    - 1. Press Download after the crosstab is generated

Keene ID: 269 - raw (unpasteurized) milk, 270 - pasteurized (regular) milk, 932 - any dairy product made from raw milk | State: Colorado

a3 LocalExpDescrip <sup>2</sup>	a6 Keene ID and = Description	al State	Yes	<1	1_5	6_17	18_65	66+	Spring	Summer	Fall	Winter	AI_AN	Asian	Black Pa	Pathogen Salmonella STEC
Nonpasteurized (raw) milk	269 - raw (unpasteurized) milk	Colorado	0.6%	0.9%	1.1%	0.7%	0.4%	1.1%	0.7%	0.6%	0.9%	0.3%	0.0%	0.0%	1.7%	State
Other products made from raw milk (Kief	932 - any dairy product made from raw milk	Colorado	1.9%	0.0%	2.3%	2.0%	2.0%	2.2%	1.4%	2.2%	2.1%	1.6%	0.0%	0.0%	1.8%	(AII) ✓ Colorado Minnesota
Pasteurized cow's or goat's milk	270 - pasteurized (regular) milk	Colorado	60.6%	10.5%	73.1%	80.0%	55.0%	61.9%	61.3%	60.8%	60.3%	63.3%		42.9%	40.0%	Oregon
			<												>	Keene ID and Descrip (Multiple values)
ti‡ +ab∣eau															$\leftarrow$	→ (← ∞% 🖵

Crosstab and other download options may be grayed out if you don't have the current dashboard window selected. Select the dashboard window by clicking on any of the row headers: a3\_LocalExpDescript, a6\_Keene ID and Description, a1\_State.

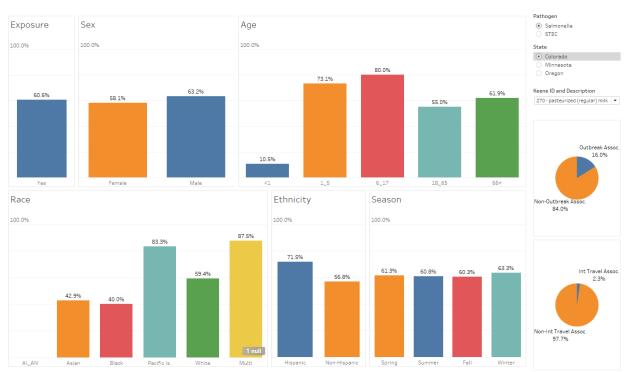
Furthermore, you can pick which variables you want extracted by clicking a column header, then choosing to either only keep that variable or exclude it.

a3_LocalExpDescrip	a6_Keene ID and Description	a1_State	Yes		1_5	6_17	16_65	66+	Spring :
Pasteurized cow's or goat's milk	270 - pasteurized (regular) milk	Oregon	35.79		nly × Exc ected · SUI			).3812	13.5%
Nonpasteurized (raw) milk	269 - raw (unpasteurized) milk	Oregon	0.59	Yes					
Other products made from raw mil	932 - any dairy product made from raw milk	Oregon	1.9%	6 0.7%	0.0%	0.3%	3.7%	0.8%	
			<						

The other dashboards, Graphs, Maps, and Keene mapping are useful for visualizing data and exposure mapping.

## **Graphs Dashboard**

- 4. Navigate to the Graphs dashboard on the navigation pane
  - a. This dashboard compares aggregate values, and helps visualize the Data Table dashboard.

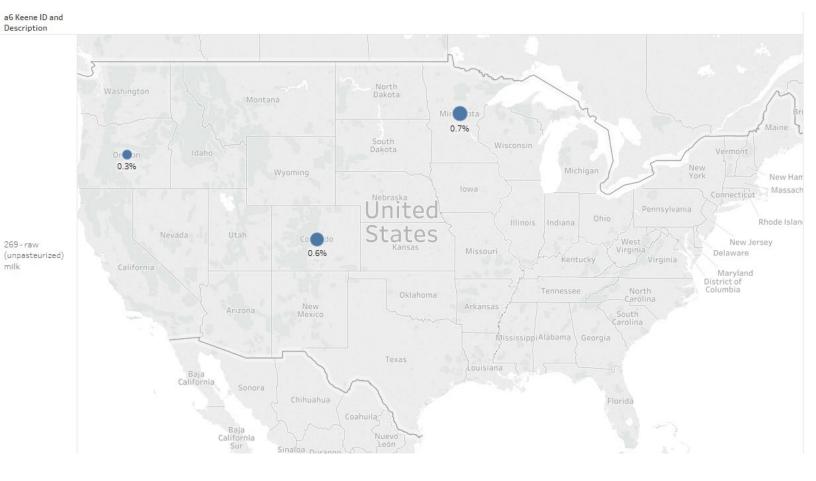


Keene ID: 270 - pasteurized (regular) milk | State: Colorado

Filters on all dashboards are shared, but *the filters on the Graphs dashboard are independent*. More than one State or Keene ID will make the graphs clunky.

## Maps Dashboard

- 5. Navigate to the Maps dashboard on the navigation pane
  - a. This dashboard compares Keene code(s) across selected states, as a dot density.



## Keene Mapping dashboard

6. Navigate to the Keene Mapping dashboard on the navigation pane

# a. This dashboard illustrates how Keene Codes are mapped to state specific exposures.

a6 Keene ID and Description 2373 - any other beet (excluding ground	a3 LocalExpDescrip	al State Oregon	a8 questionType Parent Question / Stand A
2376 - Chinese water dragon	Null	Oregon	Structured Prompted
2379 - exposure to baby poultry	Null	Oregon	Parent Question / Stand A
2380 - exposure to ducklings	Null	Oregon	structured prompted
2381 - exposure to goslings	Null	Oregon	structured prompted
2410 - cheese curds	Cheese curds	Minnesota	Parent Question / Stand A
2420 - any fresh tomatoes	Tomatoes (e.g. vine-on, heirloom, roma, beefste	Minnesota	Parent Question / Stand A
	Uncooked, fresh tomatoes	Colorado	Parent Question / Stand A
2421 - any mushrooms (fresh or dried)	Mushrooms (white, portabella, crimini)	Minnesota	Parent Question / Stand A
2424 - any sausage	Sausage	Minnesota	Parent Question / Stand A
2426 - municipal or city water	Municipal or city water	Minnesota	Parent Question / Stand A
2427 - well water	Drink water from a private well	Colorado	Parent Question / Stand A
	Well water	Minnesota	Parent Question / Stand A
2428 - Other drinking water (excluding	Other drinking water (excluding municipal, well,	Minnesota	Parent Question / Stand A
2429 - lived on, worked on, or visited a	lived on, worked on, or visited a farm	Minnesota	Instructed Prompted
farm	Visit, work, or live on a farm	Colorado	Parent Question / Stand A
2431 - visit a farm	visited farm	Minnesota	Parent Question / Stand A
2432 - Cow (present)	Cow (present)	Minnesota	Instructed Prompted