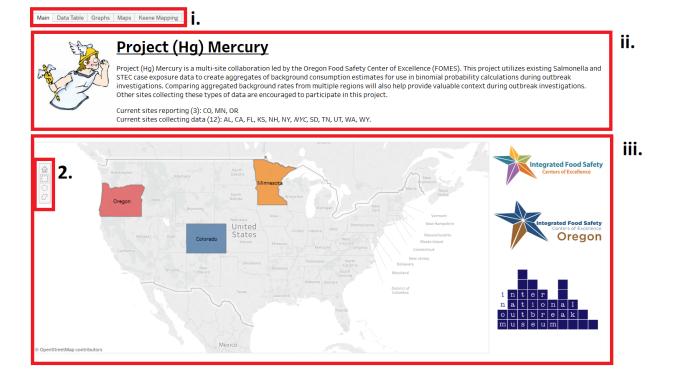
Project Mercury (Hg) - Tableau Viz: Instructions for use

| Main dashboardp | <u>.2</u> |
|--------------------------|------------|
| Data Table dashboardp | <u>).3</u> |
| Data Extractionf | <u>.4</u> |
| Graphs dashboardp | <u>).7</u> |
| Maps dashboardp | <u>).8</u> |
| Keene Mapping dashboardp | <u>.9</u> |



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 ² | 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% | ✓ (AII) ✓ Colorado ✓ Minnesota |
| 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

Ŧ

| \checkmark | 269 - | raw | (unpasteurized) | milk |
|--------------|-------|-----|-----------------|------|
|--------------|-------|-----|-----------------|------|

✓ 270 - pasteurized (regular) milk

✓ 932 - any dairy product made from raw milk

milk

d. Your dashboard should look like this:

| a3 LocalExpDescrip ² | 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 ² | 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.

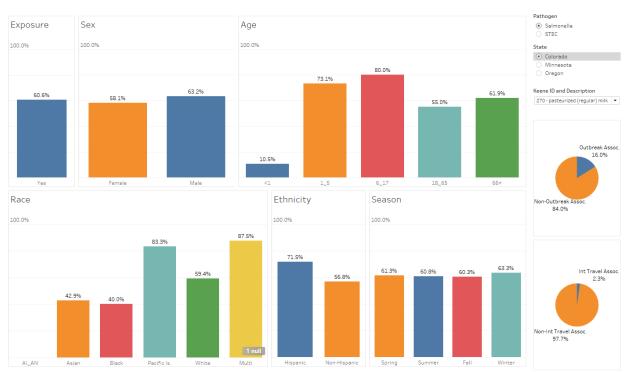
Furthermore, you can pick which variables you want extracted by clicking a column header, then choosing to either only keep that variable or exclude it.

| 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.

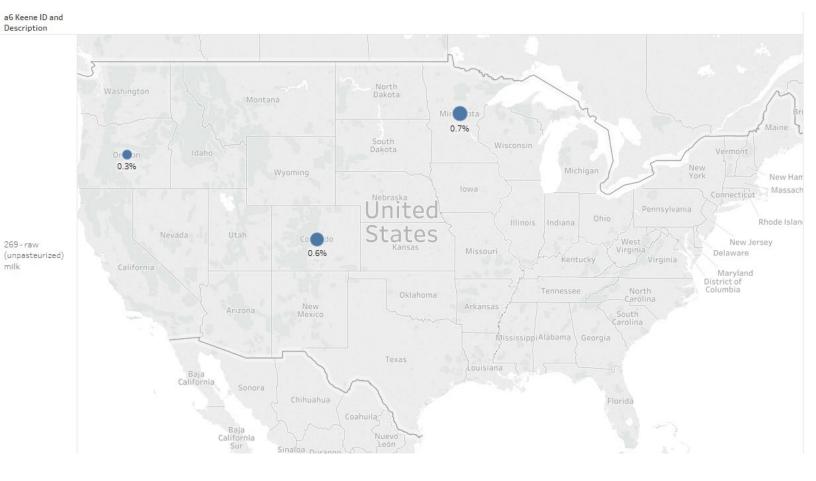


Keene ID: 270 - pasteurized (regular) milk | State: Colorado

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 |