

A&I ENFORCEMENT PROGRAMS

Safety Investigations Visualization Tool

What is the Safety Investigations Visualization Tool?

The A&I Online Safety Investigations Visualization Tool lets you **build customized data** displays to **analyze trends** and **link investigations with violations and enforcement actions**. The tool contains two tabs (Investigations and Violations) and provides customizable data tiles that help you examine safety investigation and violation data from FMCSA’s Motor Carrier Management Information System (MCMIS). This guide provides step-by-step instructions for using the tool.

How to Use the Safety Investigations Visualization Tool

View the information below to learn how to generate, view, and download customized reports.

MENU BAR

Click the items in the top menu bar of the tool to complete the following actions.

Undo: Undo your latest action

Redo: Redo your latest action

Revert: Remove all selections/filters

Refresh: Refresh displayed data

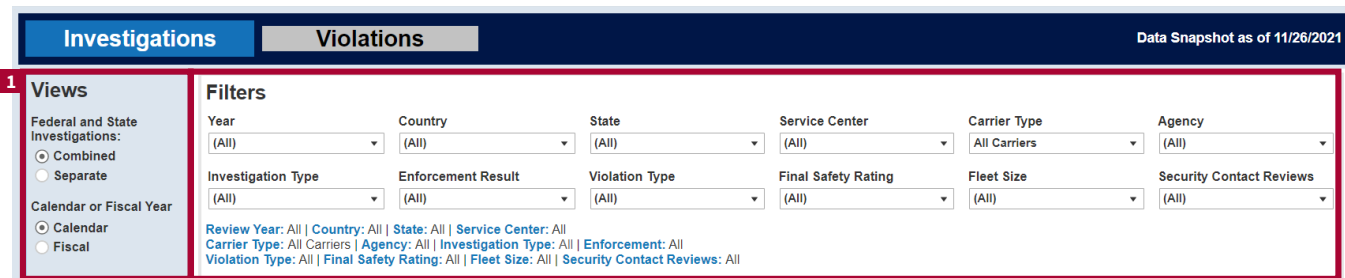
Pause: Pause displayed data*

Download: Download displayed data

**New filter selections will not update when data is paused.*



INVESTIGATIONS TAB



1 VIEWS

Break out displayed data by investigation type and time frame.

- **Combine or separate** Federal and State investigations data
- Display data by **calendar or fiscal year**

Note: By default, the tool displays combined Federal and State data for the last 5 calendar years. Click the radio buttons to display separate Federal and State data or to switch to a fiscal year view.

2 FILTERS

Further refine displayed data. Filter selections for carrier type, agency, enforcement result, and security contact reviews will automatically update the displayed data. To apply one of these filters, click the **filter box** and select an option from the dropdown menu. For the remaining filter options, click the **filter box**, select an option from the dropdown menu, and click **Apply** to update the displayed data in the tool below.

Filter displayed investigations data by:

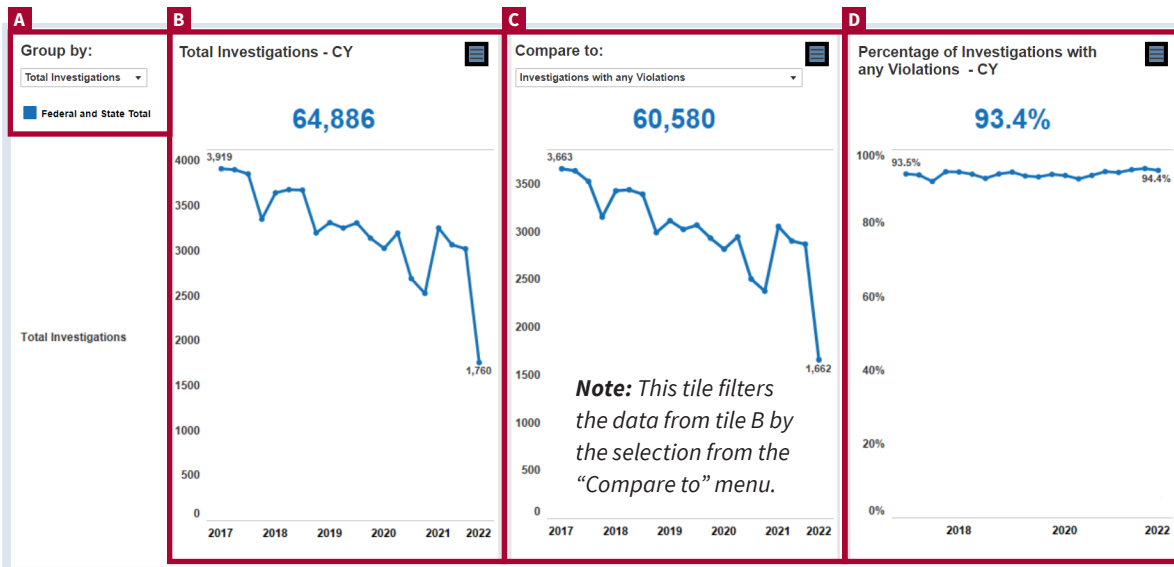
Note: A summary of all filter selections is displayed below the dropdown menus.

- Year
- Country
- State
- Service Center
- Carrier type
- Agency
- Investigation type
- Enforcement result
- Violation type
- Final safety rating
- Fleet size
- Security contact reviews



3 INTERACTIVE DATA TILES

The data selections from the Views and Filters sections are displayed in the interactive tiles. Use these tiles to explore the customized data.



A GROUP BY
Break out displayed data using one of the following categories:

- Total investigations
- Fleet size
- Investigation type
- Final safety rating
- Violation summary
- Violation summary (detailed)

B TOTAL INVESTIGATIONS
The data for the selection chosen from the "Group by" menu. The default selection is Total Investigations.

- Displayed data is for the time frame selected in the "Year" filter.

C COMPARE TO
This menu allows you to filter by:

- Investigations with any violations
- Investigations with acute violations
- Investigations with critical violations
- Investigations with acute/critical violations
- Investigations with non-acute/critical violations
- Investigations with enforcement

D PERCENTAGE OF INVESTIGATIONS
This tile shows the percentage of investigations with certain characteristics when comparing the data in tile C with the data in tile B.

Note: All displayed data combines or separates Federal and State investigations based on your selection in the Views section. The example above shows combined Federal and State data.

VIOLATIONS TAB

Investigations
Violations
Data Snapshot as of 11/26/2021

1 Views

Federal and State Investigations:

Combined

Separate

Calendar or Fiscal Year

Calendar

Fiscal

Filters

Year (All)	Country (All)	State (All)	Service Center (All)	Carrier Type All Carriers	Agency (All)
Investigation Type (All)	Violation Type (All)	Fleet Size (All)	Final Safety Rating (All)	Security Contact Reviews (All)	Violation Code (All)

Review Year: All | Country: All | State: All | Service Center: All
Carrier Type: All Carriers | Agency: All | Investigation Type: All | Violation Type: All
Fleet Size: All | Final Safety Rating: All | Security Contact Reviews: All | Violation Description: All

1 VIEWS

Break out displayed data by investigation type and time frame.

- **Combine or separate** Federal and State investigations data
- Display data by **calendar or fiscal year**

Note: By default, the tool displays combined Federal and State data for the last 5 calendar years. Click the radio buttons to display separate Federal and State data or to switch to a fiscal year view.

2 FILTERS

Further refine displayed data. Filter selections for carrier type, agency, and security contact reviews will automatically update the displayed data. To apply one of these filters, click the **filter box** and select an option from the dropdown menu. For the remaining filter options, click the **filter box**, select an option from the dropdown menu, and click **Apply** to update the displayed data in the tool below.

Filter displayed violations data by:

- Year
- Country
- State
- Service Center
- Carrier type
- Agency
- Investigation type
- Violation type
- Fleet size
- Final safety rating
- Security contact reviews
- Violation code

Note: A summary of all filter selections is displayed below the dropdown menus.

3 INTERACTIVE DATA TILES

The data selections from the Views and Filters sections are displayed in the interactive tiles. Use these tiles to explore the customized data.

A

Group by:

Total Violations

Federal

State

Total Violations

Note: The default setting is Total Violations.

B

Violations over Time - CY

241,255

166,525

C

Select Top Number of Violations (based on Group by)

Top 10 Violations

Group by: Total Violations	Violation
	392.2
	395.8(e)1
	395.8(f)
	395.3(a)(2)
	396.3(b)(2)
	395.3(a)(3)(i)
	395.3(a)(3)(ii)
	396.3(b)(1)
	382.301(a)
	395.8(k)(1)
	392.2
	391.51(b)(6)
	396.3(b)(1)
	395.8(e)1
	396.3(b)(2)
	395.8A1
	391.51(b)(2)
	396.17(a)
	382.301(a)
	391.51(b)(5)

Note: This tile displays the number of violations based on the option chosen in the dropdown menu.

The data is broken out by the selection made in the "Group by" menu.

A GROUP BY

Display one of the following categories:

- Total Violations
- Violation type
- Investigation type

B VIOLATIONS OVER TIME

This tile breaks out data for the selection chosen from the "Group by" menu.

C SELECT TOP NUMBER OF VIOLATIONS





This menu allows you to **display the top 10, top 20, or all violations.**

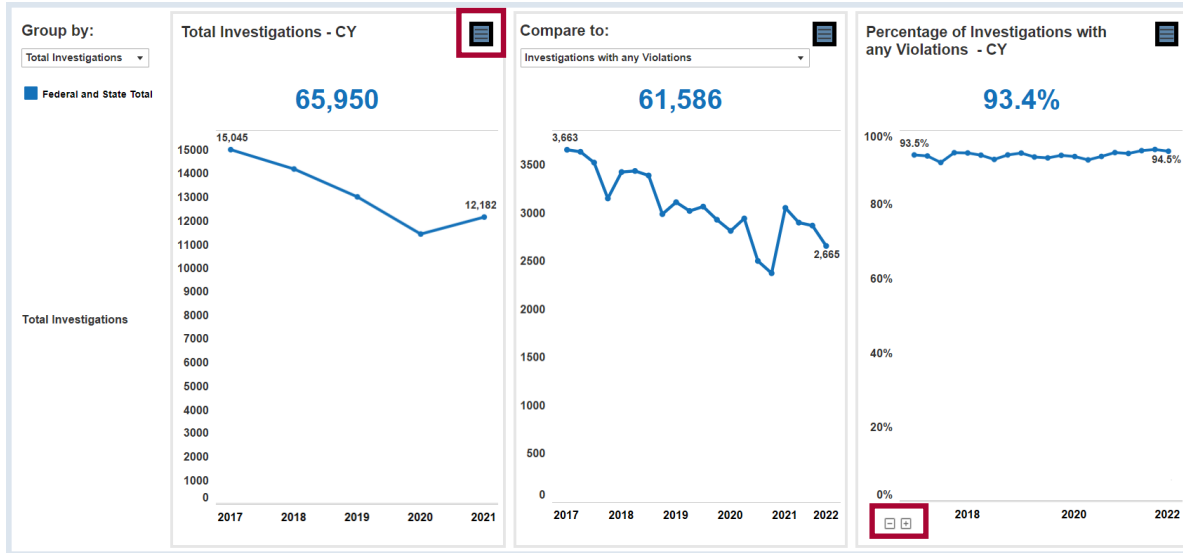
Note: All displayed data combines or separates Federal and State investigations based on your selection. (Above: separate Federal and State data).




ADDITIONAL DETAILS

ACCESS ADDITIONAL DETAILS

Hover over the contents of each data tile for additional details about the displayed data. Click the **expand icon** [] in the top right-hand corner of each tile to view an enlarged version of the data. Click the **X icon** [] to close the expanded view. You can also hover over the contents of each tile for additional details while in this expanded view. If needed, you can hover over the bottom left-hand corner of each tile to zoom in and out [ ].



DOWNLOAD INVESTIGATIONS/VIOLATIONS DATA

Once you have customized your displayed data, select **Download** [ Download] in the top right-hand corner of the tool. A pop-up with three download options will appear. Select your file format and follow the on-screen prompts to finish downloading your file.

Download ×

Select your file format.