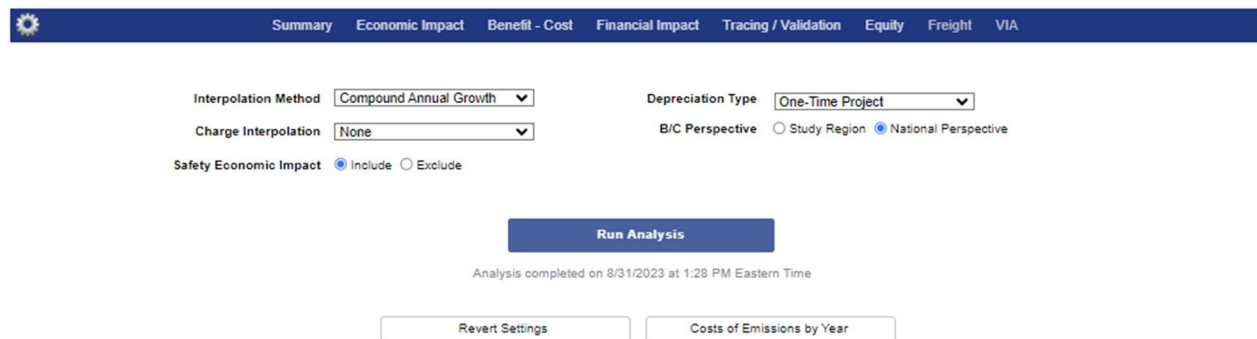


## Safety Impacts in Economic Impact Analysis

In collaboration with Michigan DOT and funded by the State of Michigan, the TREDIS team has added functionality to use the impacts of averted crash outcomes – fatalities, injuries, and property damage – in TREDIS Economic Impact Analysis. To use the impact estimation, users do not need to add any new inputs.

In the Results Settings page, click Include next to the Safety Economic Impact label. (The default is Exclude to maintain consistency for projects already run, but you may add the safety impacts to any existing project by re-running the analysis for those projects.) We recommend consideration of safety impacts primarily for larger safety programs and scenarios involving safety technology. Small changes in crash rates at the project level are unlikely to result in the structural economic changes captured by this functionality.



The screenshot shows the TREDIS Results Settings page. The navigation bar includes Summary, Economic Impact, Benefit - Cost, Financial Impact, Tracing / Validation, Equity, Freight, and VIA. The main settings area includes:

- Interpolation Method: Compound Annual Growth
- Charge Interpolation: None
- Depreciation Type: One-Time Project
- B/C Perspective: Study Region (unselected), National Perspective (selected)
- Safety Economic Impact: Include (selected), Exclude (unselected)

A Run Analysis button is present, with a status message below it: "Analysis completed on 8/31/2023 at 1:28 PM Eastern Time". Below the status message are two buttons: Revert Settings and Costs of Emissions by Year.

To see how safety incidents will directly impact the economy, the Project Impacts by Industry report now has a column reporting the impact of safety separately.

Safety impacts that result in changes in the broader economy are now included in all of the standard Economic Impact reports. These can be sizable impacts, depending on the number of incidents avoided. The net direct impact for each averted fatality is \$1,079,979 and \$15,418 for an injury of unknown severity.

Refer to the TREDIS User Manual for further details.