



CRASH QUERY APPLICATION: Accelerating Answers to Critical Crash-related Questions

Large numbers of safety personnel are occupied fulfilling crash data requests and struggling to do so in a timely manner. Thankfully, Numetric's Crash Query application is reducing the process from hours and days to just minutes, allowing them to perform more analysis, and ensuring that stakeholders have the data they need to make smarter resource investments.

PROBLEM: ANSWERS STRUGGLE TO KEEP UP WITH CRASH QUESTIONS

"Where are the crash hot spots in my region?"

"Why are so many crashes occurring on Route X at mile marker 54?"

"How has the traffic signal we installed last year at State and Main affected crashes?"

The answers to questions like these empower traffic safety organizations to make smarter resource investments that maximize safety ROI. The quality, speed, and ease of use with which traffic groups can answer these questions for stakeholders — including internal teams, law enforcement, administrators, legislators, nonprofits, and other safety partners — has an undeniable impact on a community's effectiveness in tackling traffic safety issues.

The average traffic safety group receives dozens of crash data requests per day from a multitude of stakeholders. With only a small handful of analysts capable of fulfilling these requests and each one taking hours or even days to fulfill, supplying timely, actionable answers to these questions is easier said than done. In fact, the cumbersome nature of getting answers to crash-related questions has a very real negative effect on your traffic safety efforts, such as:

- 1. Strain on traffic safety resources** - Your resources tend to become monopolized fulfilling requests, while other safety analysis tasks are pushed to the backburner.
- 2. Limited dissemination of crash data** - Inevitably, when answers to crash-related questions are delayed, a large number of your projects are either delayed while waiting for crucial crash data or simply move forward without it.
- 3. Lack of consensus on safety issues** - When crash data is slow or hard to obtain, your partners tend to turn to alternative sources to ground their decisions — often parallel systems or anecdotes — and consensus between groups becomes elusive.

SOLUTION: ACCELERATE ANALYSIS FOR FASTER ANSWERS

Numetric's Crash Query application was built specifically to accelerate the querying, integrating, visualizing, and sharing of crash and other data. It lets you explore your data in a GIS interface with the ease of a Google search, pinpoint the root causes of crashes, identify the best countermeasures, and, with one click, generate a PDF crash

Crash Query Application Features

- Advanced search in GIS interface
- Crash-level details
- Crash report generator
- Comparison report generator

"Numetric lets us take a data-driven approach to making our roadways safer. The platform helps us not only see the data, but act on it."

JOSEPH WEISS

Transportation Safety Analyst
New Jersey Division of Highway Traffic Safety

report or year-over-year comparison report. So you can provide answers to critical crash-related questions in mere minutes, instead of days, and easily share those insights with your stakeholders — and still have time to perform the vital safety analysis you were hired to do.

APPLICATION FEATURES

The Crash Query application effortlessly searches your crash data by hundreds of attributes — in an intuitive GIS interface — to pinpoint the root causes of a crash and automatically identify the best countermeasures to mitigate similar crashes, using HSM methodologies. Crash Query also generates crash reports as shareable PDFs — including year-over-year comparison reports to monitor positive or negative changes at a specific location.

Advanced Search

Explore your crash data in a GIS interface with the ease of a Google search. Filter search results by hundreds of options — date range, vehicle type, alcohol-related, and more — in real-time. Search options include:

- Full text search
- Attribute search
- Spatial search
- Dynamic search w/ charts
- Route search
- Date filters
- Range filters
- Exclusion filters

Crash-level Data

Dig through details about individual crashes, including crash-, vehicle-, and occupant-level and recommended countermeasures. Click through roadway images and explore the crash site virtually via Google Street View.

Crash Report Generator

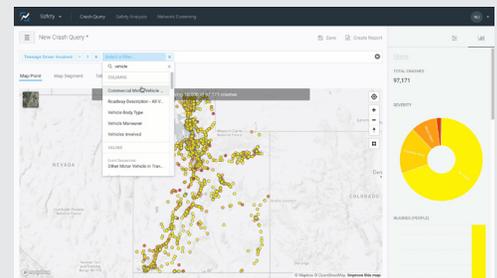
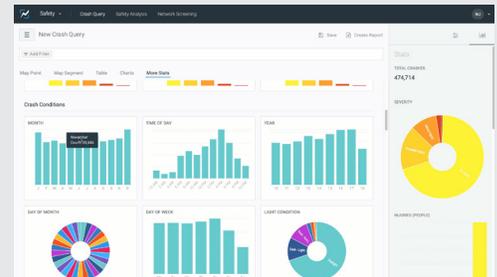
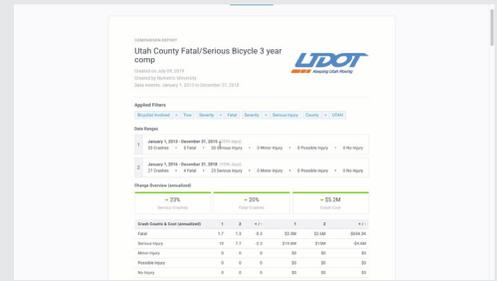
When you've recovered the data you need to answer a safety question, you can create a robust crash report with one click. It is generated as a PDF so you can easily share with your stakeholder all the information they need to make smarter traffic safety resource investments.

Comparison Report Generator

Know instantly how your investments to improve driver behavior or roadway assets have impacted safety — for better or worse — at any specific milepoint with one click. When you're done, save your report in the application for future reference or share it with the relevant parties.

BENEFITS

The Crash Query application lets you answer requesters' safety questions faster and more thoroughly. Your organization's projects benefit from having clear, data-driven answers. Your internal and external stakeholders work from the same data, so you reach consensus more easily and become more focused around the resource investments that will save the most lives.



“Numetric gets everyone focused around the same data so we can solve the same problems together.”

ROBERT MILES

Director, Traffic & Safety
Utah Department of Transportation

Unlock the answers to your safety questions

With our off-the-shelf, configurable Traffic Safety Analytics Platform and our suite of purpose-built applications, Numetric is dedicated to empowering you to achieve greater confidence and consensus around resource investment decisions and save more lives on your roadways. To see how we can empower you, **request a custom demo at numetric.com.**