SAFE-T CRASH DATABASE INTERFACE – OVERVIEW

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WHAT IS SAFE-T?

SAFE-T is a web interface for ODOT’s collision database. It contains data on all reported traffic accidents on public roads in Oklahoma since 1998.

Location data is corrected and data fields are added based on the officers’ narratives.

OU hosts the database and maintains SAFE-T.
WHO IS ELIGIBLE FOR ACCESS?

• Government employees with transportation responsibilities:
  – ODOT Engineers and Design Supervisors
  – Other agencies with an interest in traffic safety: OTA, HSO, FARS, OHP, DPS, LTAP, TTAP, RTAP, FHWA, etc.
  – Permanent employees of MPOs, cities, counties, tribes, law enforcement
  – Researchers.

🌟 New: Consultants offering transportation engineering services can access crash data, after:
  - Signing an agreement against misuse.
  - Taking a training course.
LONGSTANDING SAFE-T CAPABILITIES

• Retrieve crash data by highway corridor, intersection, city, county, troop, MPO, ODOT division, or custom defined area.
• Provide breakdowns of injury severity, collision type, vehicle type, day of week, time of day, weather, wet/icy pavement, lighting, driver faults, etc.
• Calculate collision rates (highways only).
• List all collisions individually.
• Export individual collision data to Excel.
• Run Sliding Window searches (highways only).
• Create a ranked listing of intersections by number of crashes or severe crashes (concentration listing).
• Plot collision diagrams for intersections.
• Map collisions in Google Maps.
EXAMPLE COLLISION DIAGRAM
**Recent Improvements**

- Map-based query tool
- KML export
- Heat maps in Collision Explorer
- Query by tribe
- Critical Rate analysis
- Queries can now be saved for later use or reference, and shared with affiliated users.
- Expected Collisions (HSM) Analysis (Advanced users).
- Dramatically revamped training class.
GOOGLE MAPS QUERY TOOL
EXPORT TO KML
(Advanced) Using the Predictive Method to Identify Candidate Locations for CLRS
USING THE PREDICTIVE METHOD TO IDENTIFY CANDIDATE LOCATIONS FOR CLRS
LIMITATIONS OF SAFE-T

• Cannot directly retrieve police reports.
• Rate analysis, sliding windows, and HSM analysis are only available on highways.
• Some collisions do not have geolocation data and map tools will not find or display them.
• Recent collisions may not be in the database.
• Certain queries can be challenging to construct.
• Use of crash data is restricted by 23 USC 409.
PLANNED IMPROVEMENTS

• Conversion of the entire database to GIS.
• Training in advanced crash data analysis (contingent on demand).
• Reports that evaluate patterns of crash types.
• Advanced analytical capabilities for county and city collectors.
FOR ACCESS AND TRAINING

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QUESTIONS?